

Galanz

洗碗机维修手册

DISHWASHER SERVICE MANUAL



60 机塑料底机型通用

For 60-cm Dishwasher

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! 声明

本手册中展示的图片以标准型号洗碗机外观为基础，不同配置机型存在差异，制造商可能会根据实际情况对产品进行不断的改进，与本手册有不符之处请以机器实物为准，如有更改，更新部分恕不另行通知。

1. 维修安全注意事项及维修准备

Safety precautions and Maintenance preparations

! Statement

Figures shown in the manual are based on appearance of standard-type dishwasher. There is may be differences between different dishwasher model, and manufacturer may improve product continuously according to the reality. Any discrepancy with this manual, please refer to the actual machine. Any changes and updates will not be noticed again.

1.1 维修安全注意事项

Safety precautions

! 警告 不正确的操作可能导致严重的人身伤害或财产损失

! **Warning** Incorrect operation may result in serious personal injury or property damage.

! 检修洗碗机应由专业的维修人员来完成，检修时需佩戴相应的电工防护工具（如绝缘手套）

! Maintenance has to be done by professional maintenance staff, who has to wear necessary protection articles (such as insulating gloves).

! 通电通水测试机器时，机器和电源需保持良好的接地性，请勿用湿手拔插电源

! The machine and power source shall be well grounded during working test. Please do not touch the power source with wet hand.

<p>⚠ 机器测试过程中，需保持机器水平放置（详见 1.2.3），否则可能导致检修结果异常</p>
<p>⚠ The machine shall be placed level during test (see details in 1.2.3), otherwise the test result will be useless.</p>
<p>⚠ 维修中如需将机器放倒，请使用较软材质的垫子或泡沫垫垫在机器下方，并防止有异物（电源线、排水管、进水管等）压在机器下面，以避免机器变形</p>
<p>⚠ During maintenance, soft materials or foam pads is needed when put down the machine. And make sure there are no objects (power lines, draining hoses, water inlet hoses, etc.) under the machine to avoid deformation of the machine.</p>
<p>⚠ 如需更换机器零部件，在拆开机器前，需断开电源，避免触电</p>
<p>⚠ If spare parts need to be replaced, machine shall be disconnected power before disassembly.</p>
<p>⚠ 如需更换机器零部件，更换完成后，需将拆开的部分全部装回机器，并进行检查或测试以确认安装无误</p>
<p>⚠ If spare parts need to be replaced, after finished replacing, all spare parts shall be assembled, and then inspected and tested to make sure the installation is correct.</p>
<p>⚠ 如需更换机器电器件，更换前需断开电源，更换后需将线端子插好，并检查线路连接是否正确</p>
<p>⚠ If electric parts of machine need to be replaced, machine shall be disconnected power. Connecting the terminals and checking the connection after the replacement.</p>
<p>⚠ 如机器通水通电检修完毕，在机器运行前，请确保清洁干净所有电器件和机器底部的水，保持机器电器件表面干燥，否则可能会导致机器损坏或人身伤害</p>
<p>⚠ After working test, please make sure that there is no water in all electric devices and bottom of machines, and that surfaces of the electric devices are dry, otherwise it may result in machine damage or personal injury.</p>
<p>⚠ 机器检修完毕后，请将机器水平放置，如需重新安装机器的，请参考《洗碗机安装说明书》进行安装操作</p>
<p>⚠ After finished maintenance, machines shall be placed level. If machines need to be reinstalled, please refer to the <i>Dishwasher Installation Manual</i>.</p>

! 声明

以上安全注意事项供维修过程中参考提醒之用，其它安全操作注意事项可参考《洗碗机说明书》

! Statements

The above safety precautions are for reference during maintenance. For other precautions for safety operation, please refer to the *Dishwasher Service Manual*.

1.2 维修准备





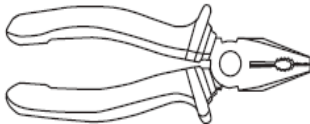
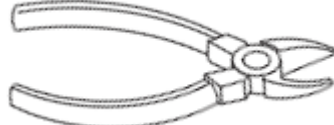
Maintenance preparations

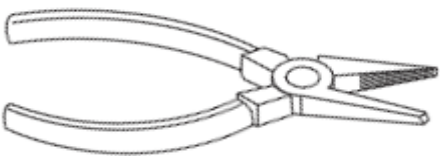
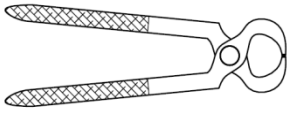

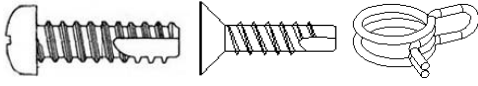

1.2.1 工具/辅料准备



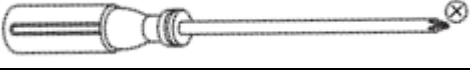
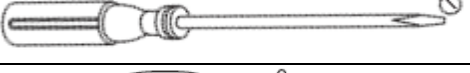

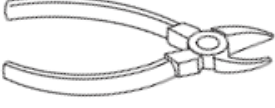
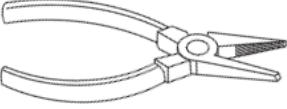
Tools preparations

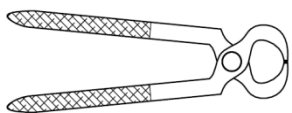

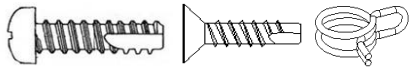

维修过程中检测和拆装零部件可能需要用到以下工具/辅料：

The following tools will be used during maintenance, detection, assembly and disassembly of spare parts

工具名称	工具示意图	备注
1.活动扳手		
2.开口扳手		1-7/16"
3.十字螺丝刀		
4.平口螺丝刀		
5.老虎钳		
6.斜口钳		

7.尖嘴钳		用于拆装双线夹箍
8.卡箍钳		用于拆装单耳无极卡箍
9.卡箍	 例	商店可买到,需匹配原有型号,具体型号见 1.2.2
10.螺钉、双线夹箍	 例	商店可买到,拆下后可重复使用
11.万用表		用于检测电子元器件
12.《洗碗机说明书》 《洗碗机安装说明书》		随机器一起提供

Name of Tool	Figure of Tool	Remark
1. Adjustable wrench		
2. Open-end wrench		1-7/16"
3. Cross screwdriver		
4. Slotted screwdriver		
5. Vise		
6. Diagonal pliers		
7. Nipper pliers		To cut double clips

8. Clamp pliers		To cut OTK clamp
9. Clamp	Figures 	The clamp is available in shops, and shall be matched with an original type (Types details in 1.2.2).
10. Screw, double-line clamp	Figures 	The materials are available in shops, which can be recycled after being unscrew.
11. Multimeter		The meter is used to test electronic parts and components.
12. Dishwasher Service Manual Dishwasher Installation Manual		The manuals are provided with the machine.

1.2.2 洗碗机卡箍型号表

List of various types of dishwasher clamps

零件名称	对应使用的卡箍/夹箍型号	
发热管连接弯管	单耳无级卡箍 $\varnothing 50 \times \varnothing 0.8$ 镀锌钢	单耳无级卡箍 $\varnothing 38.1 \times \varnothing 0.8$ 镀锌钢
发热管	单耳无级卡箍 $\varnothing 38.1 \times \varnothing 0.8$ 镀锌钢	单耳无级卡箍 $\varnothing 38.1 \times \varnothing 0.8$ 镀锌钢
洗涤泵出水连接管	单耳无级卡箍 $\varnothing 36.1 \times \varnothing 0.8$ 镀锌钢	单耳无级卡箍 $\varnothing 36.1 \times \varnothing 0.8$ 镀锌钢
排水管	单耳无级卡箍 $\varnothing 28.6 \times \varnothing 0.8$ 镀锌钢	
呼吸器进水管	单耳无级卡箍 $\varnothing 17.5 \times \varnothing 0.6$ 镀锌钢	
流量计进水管	单耳无级卡箍 $\varnothing 17.5 \times \varnothing 0.6$ 镀锌钢	
压力开关管	普通双线卡箍 $\varphi 8.0 \times 1.2$ 镀锌	普通双线卡箍 $\varphi 8.0 \times 1.2$ 镀锌
软水器连接管	普通双线卡箍 $\varphi 14.9 \times 1.8$ 镀锌	普通双线卡箍 $\varphi 14.9 \times 1.8$ 镀锌
!声明		
未注型号的紧固件请以实物为准，拆装使用的卡箍/夹箍须与原型号匹配，否则可能导致漏水。		

Name of Part	The corresponding applied clamps	
Connecting elbow of heating	OTK500 \ 050.0-708 \ galvanized steel	OTK381 \ 038.1-708 \ galvanized steel
Heating	OTK381 \ 038.1-708 \ galvanized steel	Single-ear stepless clamp \ 038.1-708 \ galvanized steel
Water drainage connecting pipe of washpump	OTK361 \ 036.1-708 \ galvanized steel	OTK361 \ 036.1-708 \ galvanized steel
Draining hose	OTK286 \ 028.6-708 \ galvanized steel	
Inlet hose for air breaker	OTK175 \ 017.5-706 \ galvanized steel	
Water inlet hose for flow meter	OTK175 \ 017.5-706 \ galvanized steel	
Pressure switch pipe	Clamp($\varphi 8.0 \times 1.2$) \ $\varphi 8.0 \times 1.2$ \ galvanized	Clamp($\varphi 8.0 \times 1.2$) \ $\varphi 8.0 \times 1.2$ \ galvanized
Connecting pipe for softener	Clamp($\varphi 14.9 \times 1.8$) \ $\varphi 14.9 \times 1.8$ \ galvanized	Clamp($\varphi 14.9 \times 1.8$) \ $\varphi 14.9 \times 1.8$ \ galvanized
Statement		
Clamps does not list here depend on the real products. Clamps / clips shall be matched with the original models to avoid water leakage.		

1.2.3 通水通电测试准备

Preparations for working test

如果机器需要进行通水通电测试，则机器的排水管、进水管等需要符合安装要求，且机器需要调整至水平放置。

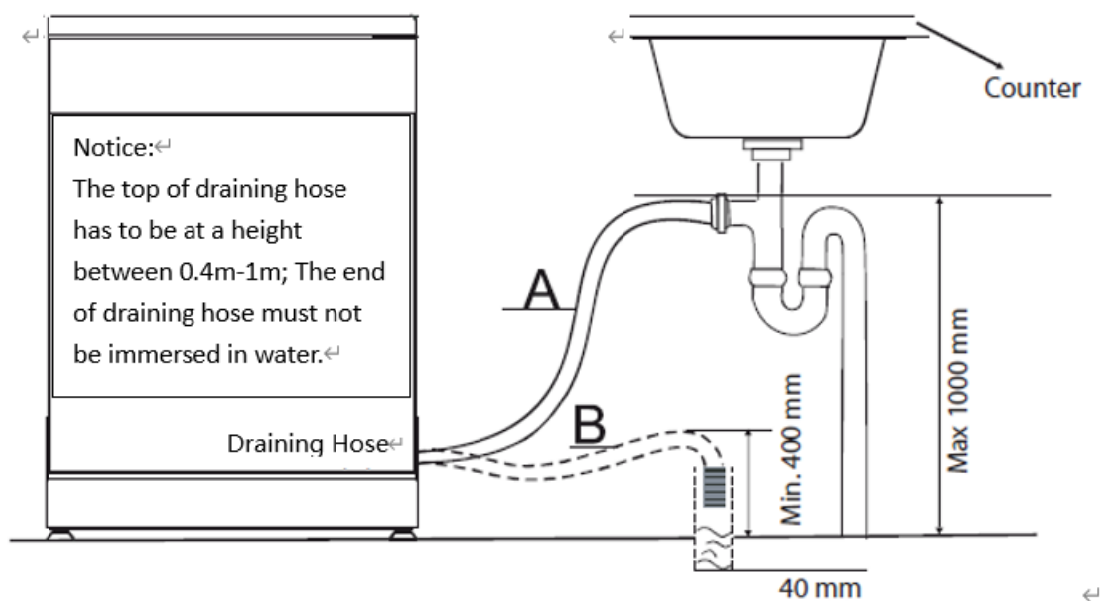
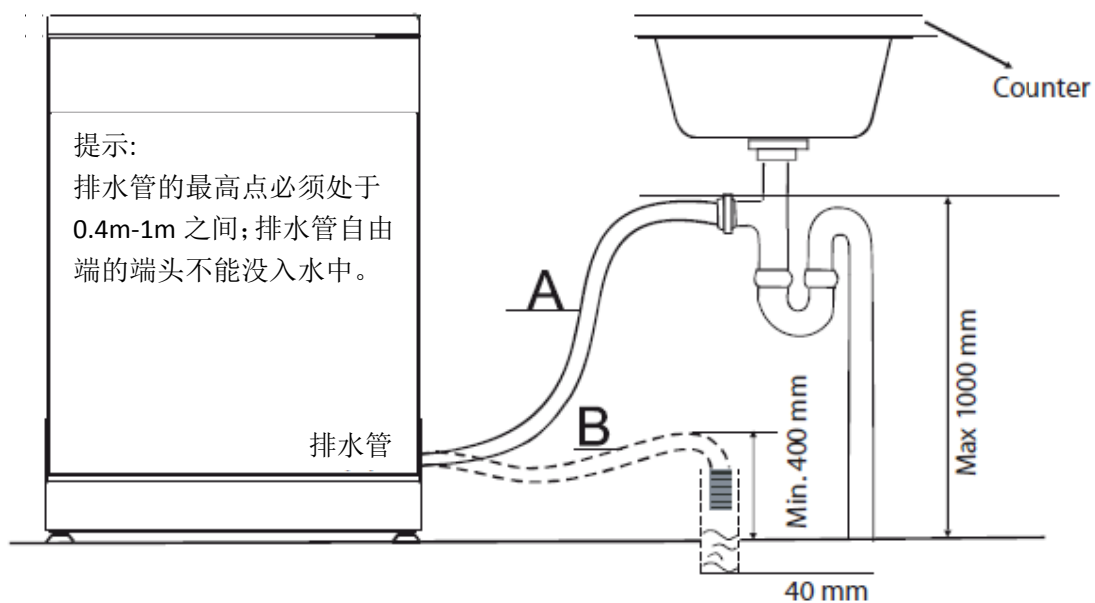
Draining hose and inlet hoses of machines before working test shall meet the installation requirements, and the machines shall be placed level.

(1) 机器进水管、排水管安装

Installation of draining hose and inlet hoses

检修机器时如需通水通电测试，机器排水管最低需放置离地 0.4m，机器排水管最高可放置离地 1m，如图所示：

Draining hose shall be placed at a position between 0.4m and 1m away from the ground before working test during maintenance. See the figure below:

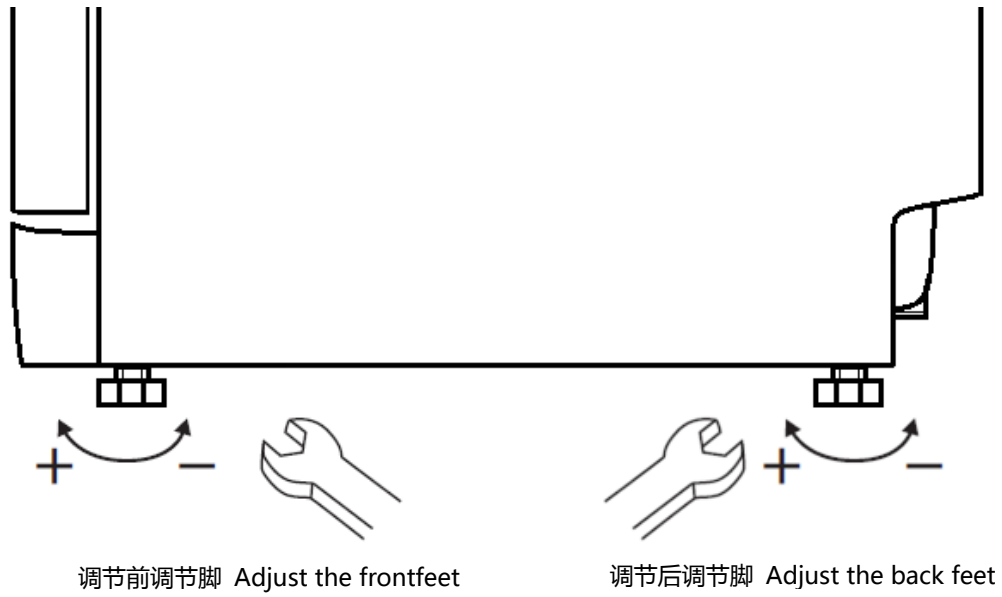


(2) 机器水平调节

Machine level adjustment

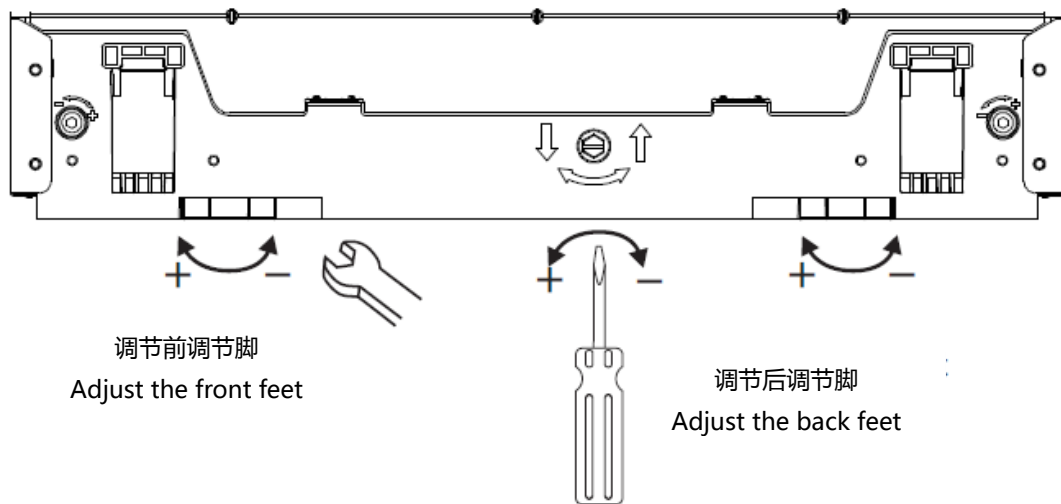
独立式机型：用对应调节角螺母的开口扳手调节机器底部前后左右四个调节脚可调节机器使机器处于水平位置，如图所示：

For free-standing: machine can be adjusted to keep level by using an open-end wrench to adjust those four feet (the front, back, left and right feet) at the bottom of the machine. See the figure:



嵌入式机型：用开口扳手调节机器正面底部两侧的调节脚可调节机器前半部分的高低；用平口螺丝刀调节机器正下方中部调节杆帽可调节机器后半部分的高低。如图所示：

For Semi and Fully built-in:Using an open-end wrench to adjustthe two feet at the front bottom of machine, and then using a slotted screwdriver to adjustthe regulating lever caps at the middle bottom of machine. See the figure:



1.2.4 机型差异概览 (“●”表示有,“-”表示无,“○”表示可选)

Overview of model differences (“●” means Yes, “-” means No, “○” means optional)

配置分类	差异点		
安装方式			
	顶板组件	踢脚板	调节机构
独立式机型	●	●	底部 4 个调节脚
嵌入式机型	-	-	中调节组件+2 个调节脚
使用地区			
	软水器	呼吸器	进水器
欧洲机型	●	●	-
澳洲机型	-	-	●
洗涤方式			
	水槽分水系统结构	分水系统接线	同步电机(分水系统)
普通洗机型	-	-	-
交替洗机型	●	●	●
进水方式			
	电子式安全进水管	普通进水管	进水阀
电子式安全进水	●	-	-
普通进水	-	●	●
其它选配配置			
	浊度传感器	照明灯模块	风机
自动洗机型	●	○	○
照明灯机型	○	●	○
风机干燥机型	○	○	●

Configuration	Difference		
Installation method			
	Top Panel	Base Board	Adjusting Mechanism
Free-standing model	●	●	Four adjustable feet are at the bottom
Semi and Fully Built-in model	-	-	Middle regulating feet and two adjustable feet
Region of use			
	Softener	Air Breaker	Water Inlet
European Model	●	●	-
Australian Model	-	-	●

Washing mode			
	Sump water distribution system structure	Water distribution system wiring	Synchronous motor (water distribution system)
Ordinary-washing model	-	-	-
Dual Zone Wash model	•	•	•
Water inletting mode			
	Aqua Stop	Ordinary water inlet hose	Water inlet valve
Aqua Stop	•	-	-
Ordinary water inletting	-	•	•
Other Optional configurations			
	Turbidity transducer	Lighting lamp	Turo Fan
Automatic-washing type	•	○	○
Lighting-lamp type	○	•	○
Fan-drying type	○	○	•

2. 洗碗机主要零部件及原理介绍

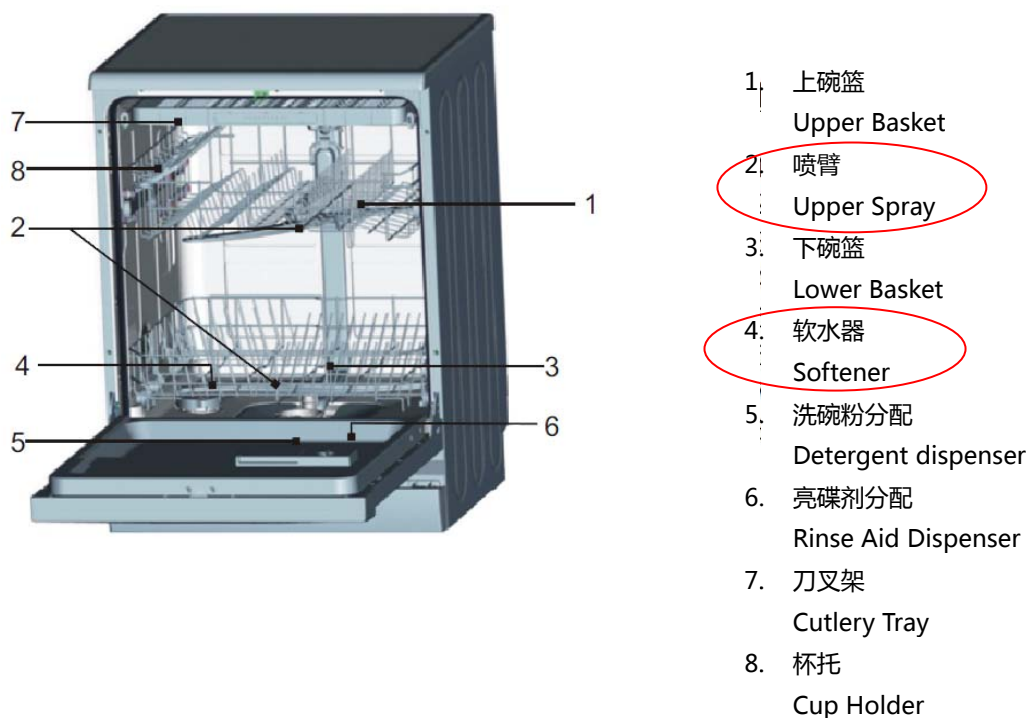
Introduction of dishwasher' s main parts and working principles

2.1 洗碗机主要零部件介绍

Introduction of dishwasher' s main parts

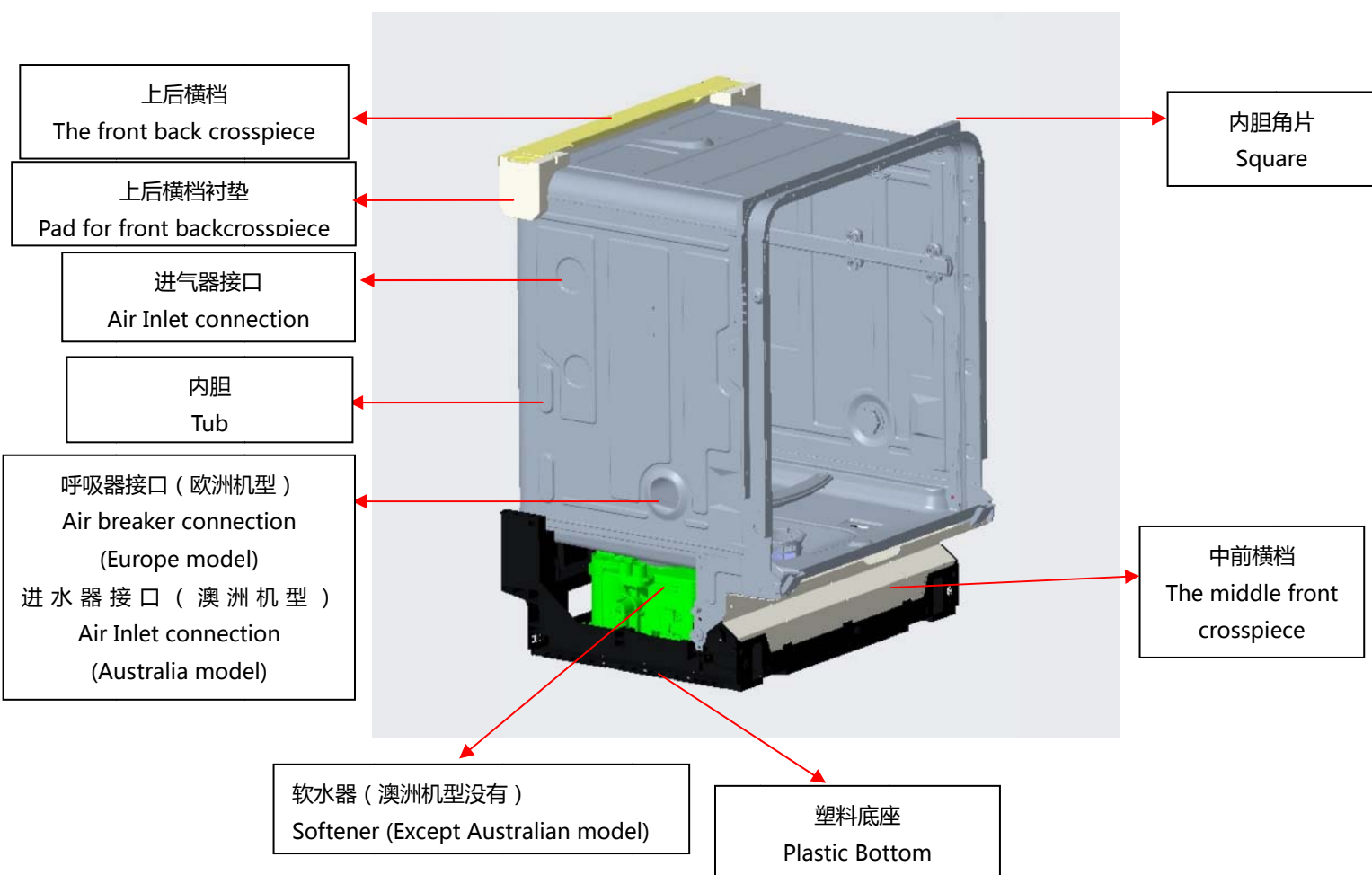
2.1.1 洗碗机主要内部件示意图如下（不同机型存在差异，具体可查看《洗碗机说明书》）：

The following figure is for main inner parts of dishwasher (there are differences between different dishwasher models. See more details in *Dishwasher Service Manual*).



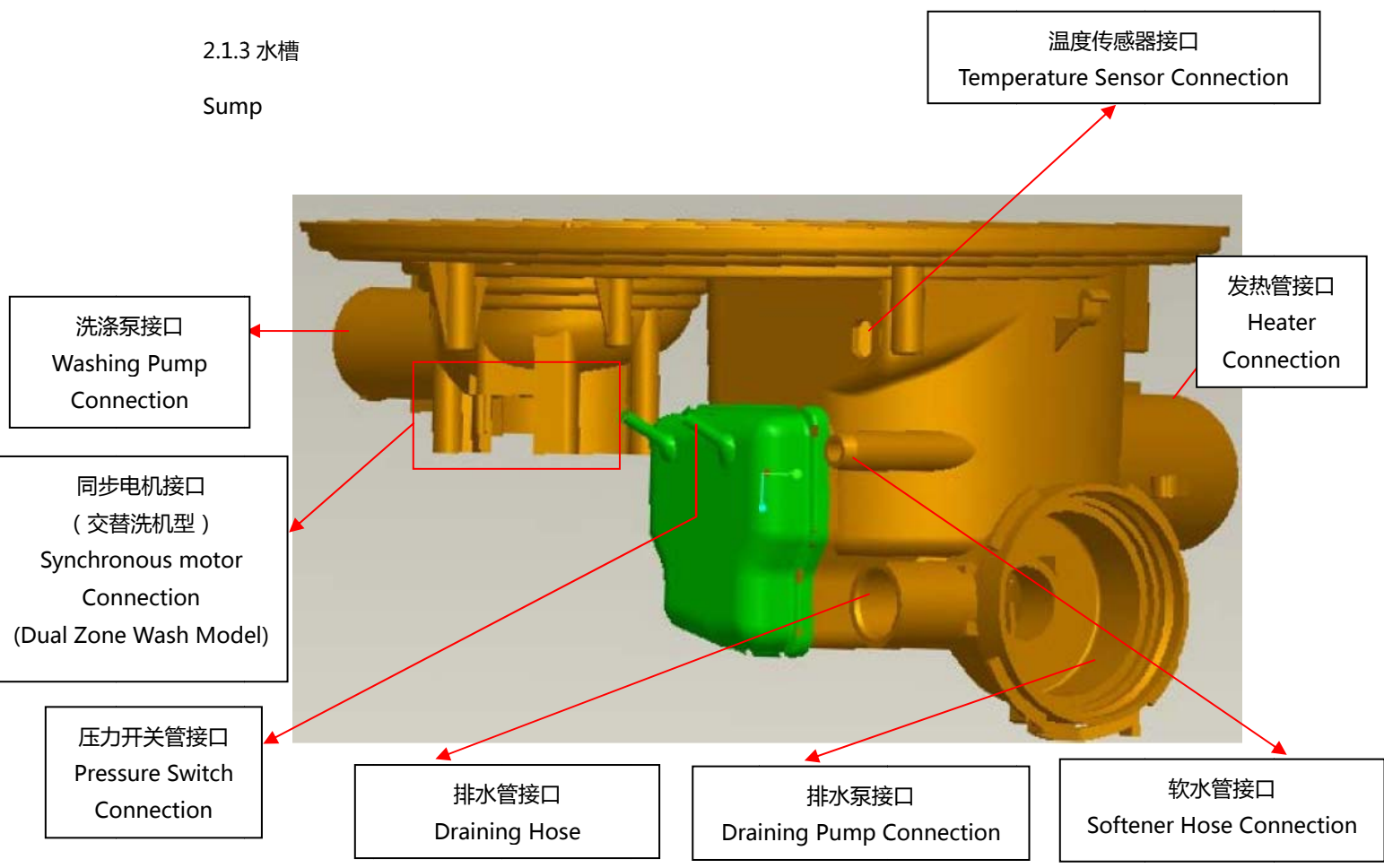
2.1.2 内胆组件

Inner Tub



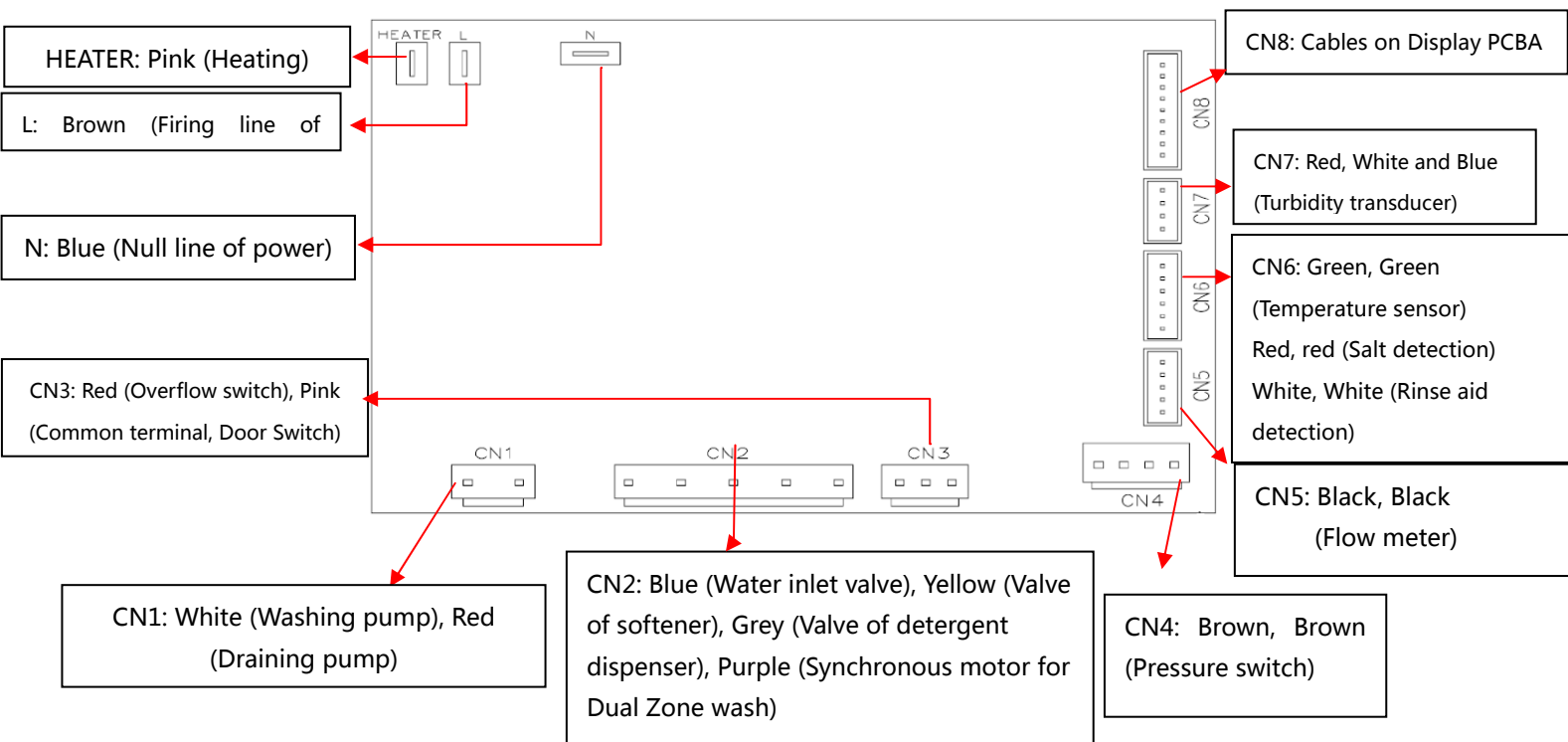
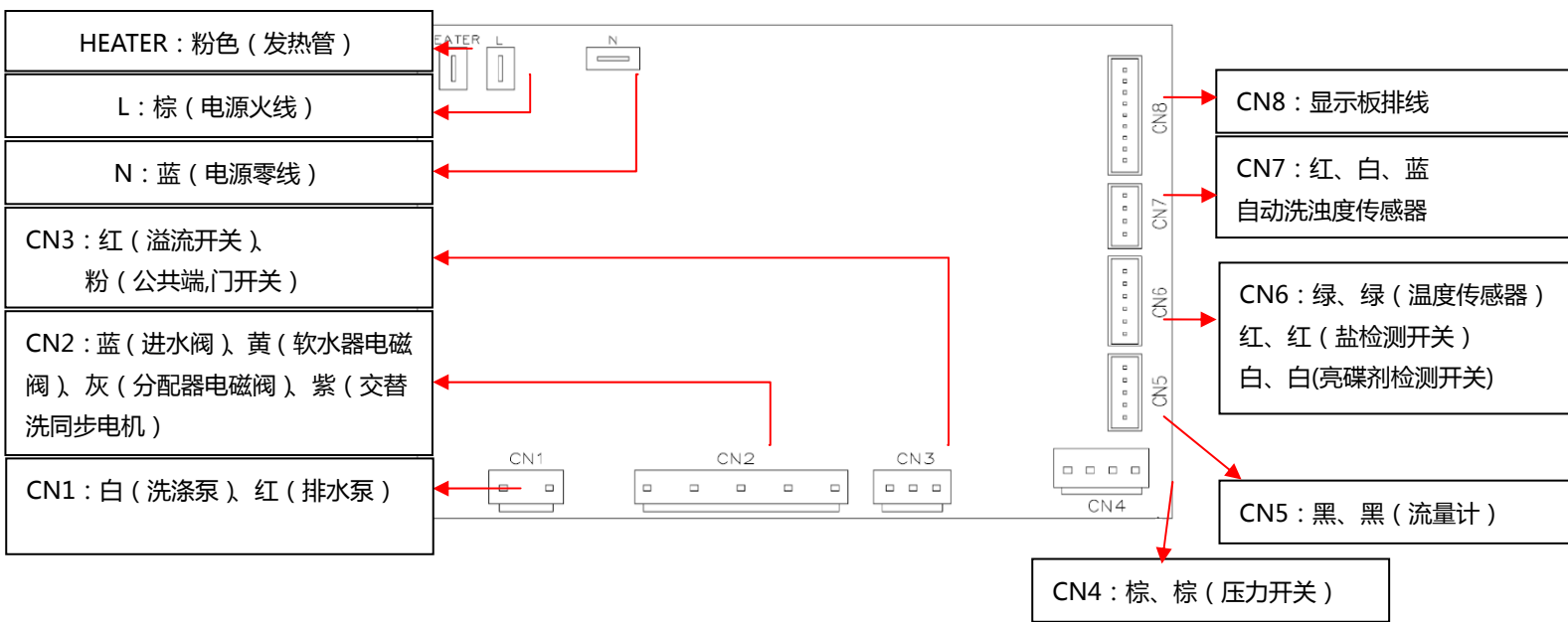
2.1.3 水槽

Sump



2.1.4 主控板

Main PCBA



2.1.5 门锁组件

Door lock assembly

门锁组件利用弹簧装置通过开关压块活动来控制微动开关闭合，当开关门异常或该组件出现故障时，微动开关处于断路，信号反馈，形成开门报警（E1 代码）。

The door-lock assembly adopts a spring device to control the micro switch via a movable switch block. In case those abnormalities in opening and closing door or an assembly failure occurred, the micro switch is disconnected with signal feedback, which results in an alarm for opening door. (Error Code E1).

2.1.6 电子式安全进水管/进水阀

Aqua Stops / Water Inlet valve

（1） 电子式安全进水管

Aqua Stops

电子式安全进水管采用电子机械式进水，集成了进水管、进水阀的全部功能，具备更安全、水量准确、进水高效的优点。具备该安全进水管的机型，不再额外配备进水管，且机器上不再单独装配进水阀。

The inlet hose adopts electronic mechanical water intaking. It includes all functions of inlet hose and water inlet valve. It has advantages of safety, accurate water volume and high-efficiency water intaking. Machine with such aqua stop is without another inlet hoses and water inlet valve.

（2） 进水阀（选配电子式安全进水管的机型无此物料）

Water Inlet valve (Except model with aqua stop)

进水阀是配合随机器配送的进水管使用的，起到进水水路通断的作用，如果出现通路一直进水或未接通水路时，进水阀会反馈信号形成进水报警（E2 代码），选用了电子式安全进水管的机型无此物料。

Water inlet valve is used for machine equipped with normal inlet hose. It is to control the on-off of the inlet water way. If water intakes continuously or water does not intake, water inlet valve will send an signal, and then water inlet error occurs (Error Code E2). However, model with aqua stop does not have it.

2.1.7 压力开关

Pressure Switch

压力开关通过压力开关管与水槽形成一段空气柱，当水槽水位升高时，会通过压缩管内的空气，使压力开关可感应水槽内水位的高低。当水槽内进水过多（水位高）或进水量过少（不进水或水位低）时，压力开

关会反馈至主控板，形成进水报警（E2 代码）；在排水泵排水时，如果水未正常排至低水位，则反馈至主控板，形成排水报警（E3 代码）。

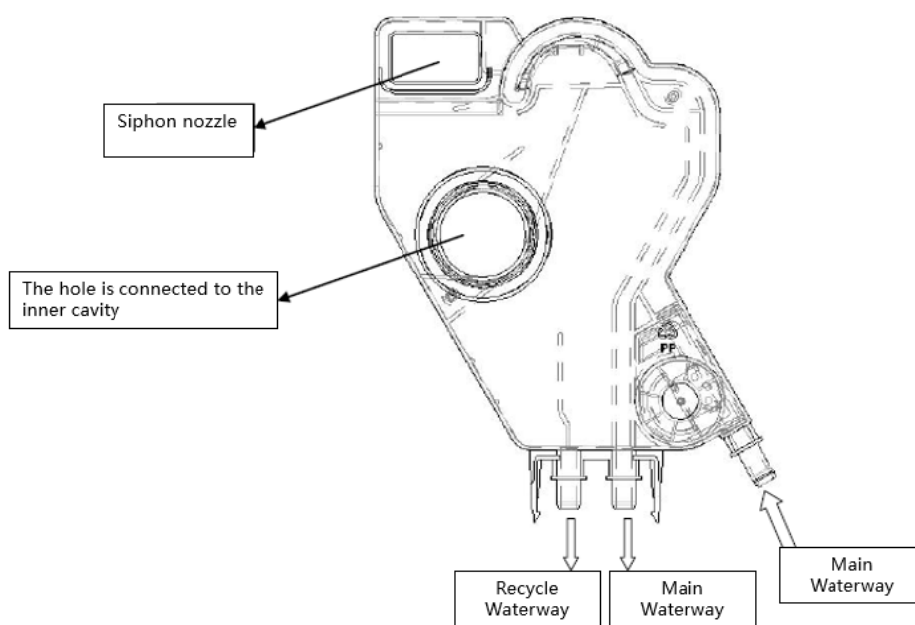
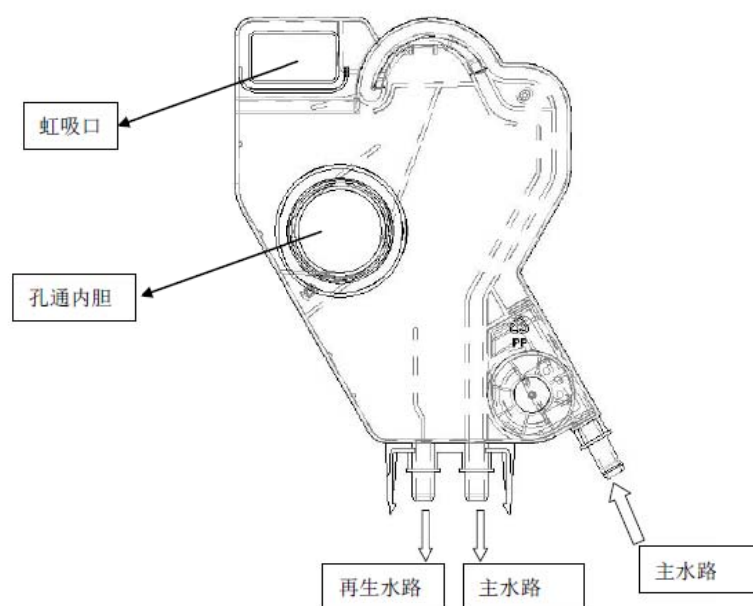
Pressure switch will be formed a section of air column between pressure switch pipe and the sump. When water level rises in the sump, air in the pipe will be pressed, and thus water level could be sensed by pressure switch; When too much water intakes (high water level) or too little water intake (no inlet water or low water level) in the sump, pressure switch will send a signal to Main PCBA, and then inlet water errors occurs accordingly (Error Code E2). During draining water, if water does not drain to the default water level, pressure switch will also send a signal to Main PCBA, and then inlet water errors occurs accordingly (Error Code E3).

2.1.8 呼吸器（带流量计）

Air Breaker (With Flow Meter)

呼吸器具备进水通路、储存再生水、干燥时呼出湿热空气、洗涤时隔绝水流噪声以及控制进水量的作用。进水时水流经过流量计转子，转子随着转动，与其连接的电路将转子转动圈数计数，当达到设定值时，信号反馈至控制器，停止进水。并同时将一部分进水储存起来作为再生水，当与呼吸器连接的软水器接收到再生功能的信号形成通路时，呼吸器储存的再生水经软水器盐腔流入树脂腔还原软水器树脂，使再生树脂可循环软化水质，如果流量计检测到异常或损坏，会形成进水报警（E2 代码）。其原理示意图如下

Air breaker has functions of intaking water, storing of regenerated water, exhaling humid air during drying, isolating water flow noise during washing and controlling water inlet volume. During water intaking, water flows through the flow meter, driving the rotor with the rotation turns counted by a circuit connected to the rotor, until the number of rotations turns reaches the set value, and then signal is sent to the controller to stop intake water. Meanwhile, part of the water is stored as regenerated water. When the softener connected to the air breaker received a signal of regeneration function forming a connected circle, the regenerated water stored in the air breaker flows into the resin cavity via the salt cavity of the softener for reducing softener resin, so that the regenerating resin can recycle the softened water quality. If the flow meter is detected as damaged or abnormality occurred, water inlet alarm is formed (Error Code E2). See the Figure:



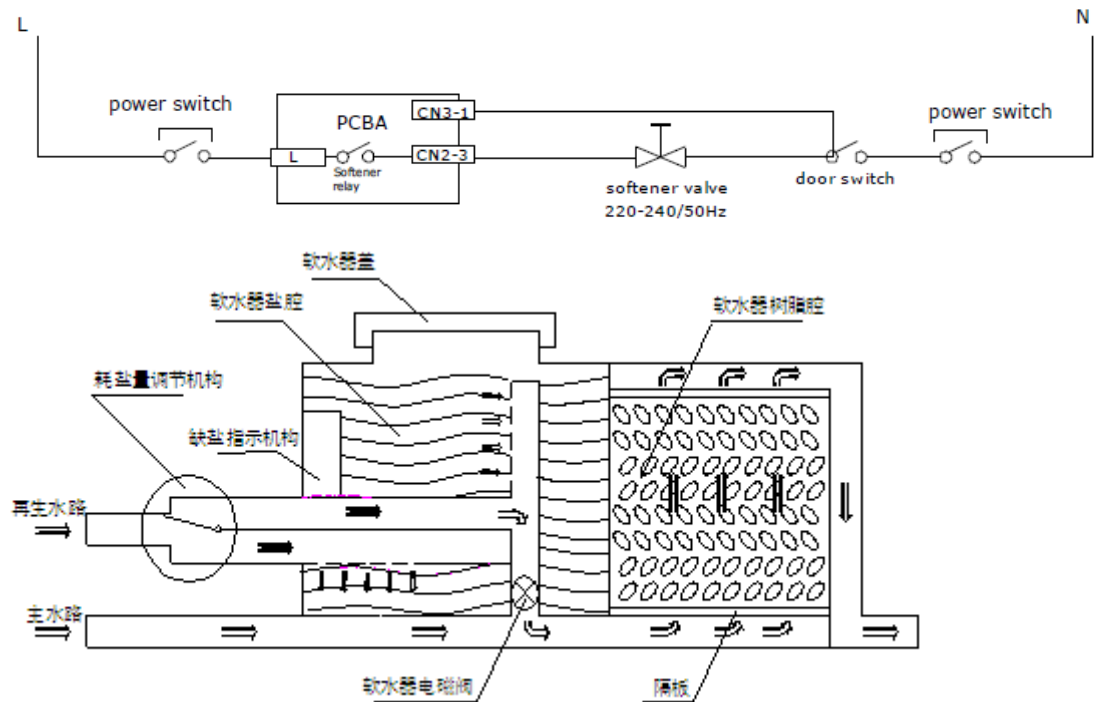
2.1.9 软水器

Softener

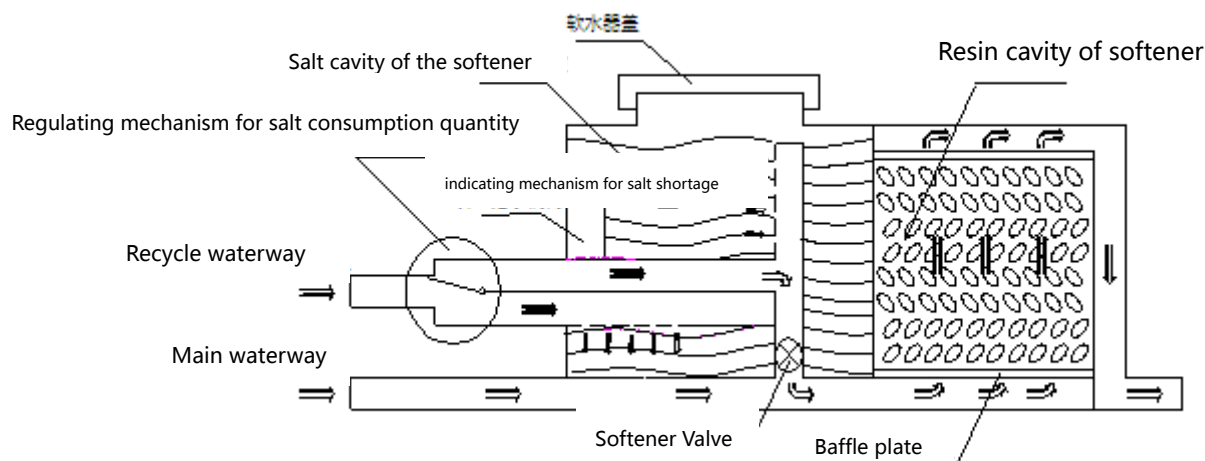
洗涤开始，水由进水阀进入软水器的树脂腔，因树脂腔中的树脂对水中的钙、镁等重离子的吸附作用，可达到对水的软化效果。洗涤完成到达烘干阶段，程控器控制软水器电磁阀工作，呼吸器中的再生水流入软水器盐腔，同时将盐腔中的饱和盐水压入树脂腔，盐水中的钠离子置换出树脂吸附的钙镁离子，达到对树脂的还原效果，当盐腔中的盐消耗到一定程度，盐腔中的盐水密度减小，盐腔浮子就会下沉，浮子上的磁铁使干簧管导通，接通盐灯回路，这时，盐灯就指示缺盐。其原理示意图如下：

As the beginning of washing, water flows from water inlet valve to the resin cavity of softener. Water could be softened because of absorption effect of resin in the resin cavity to heavy ions such as calcium and magnesium in water. During drying, the program controller controls softener valve to work. Regenerated water in air breaker flows into the salt cavity of softener, pressing the salt water into the resin cavity, with sodium in the salt water replacing the calcium and magnesium ions absorbed by resin, so as to relive the resin; When salt in salt cavity is consumed to certain volume, density of salt water in salt cavity decreases, resulting in the falling of floater in salt cavity while the magnet on floater connect the reed pipe, connecting the salt lamp circuit and thus powering on salt lamp for indicating salt shortage. See the figures:

softener



Softener Cap



2.1.10 进水器

Air Breaker

不具备软水功能的机型，采用进水器来完成进水功能，进水器连接的流量计对进水量进行测量和反馈，当进水功能或进水量出现异常时，流量计反馈信号，形成 E2 报警。

A machine without water softener adopts water inlet on tub to complete water intaking. The flow meter connected to the water inlet on tub do the water inflow measurement. When water intake function or water inflow volume is abnormal, the flow meter will send signal, errors code E2 occurs.

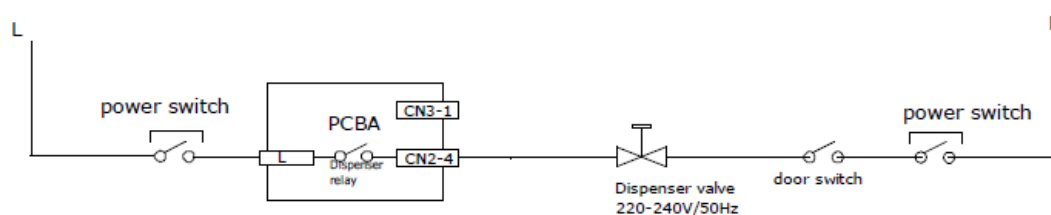
2.1.11 分配器

Detergent Dispenser

在程序所需的时间点，分配器电磁阀驱动将洗碗粉盖打开，同时连杆机构搅拌亮洁剂池将亮洁剂挤出；将洗碗粉、亮洁剂倒入内胆，达到强力清洁、光亮餐具的效果。如果亮碟剂过少，信号反馈至主控板，粉灯亮起，指示缺亮碟剂。

Valve of detergent dispenser will push the detergent dispenser cap to be opened, while the linkage mechanism mixes the rinse agent, spray rinse agent. Add the detergent and rinse agent into the tub, so as to achieve the effects of strong cleaning and shiny tableware. If rinse agent is shortage, it will send signal to Main PCBA, and then the pink lamp is on, indicating the shortage of rinse agent.

Dispenser

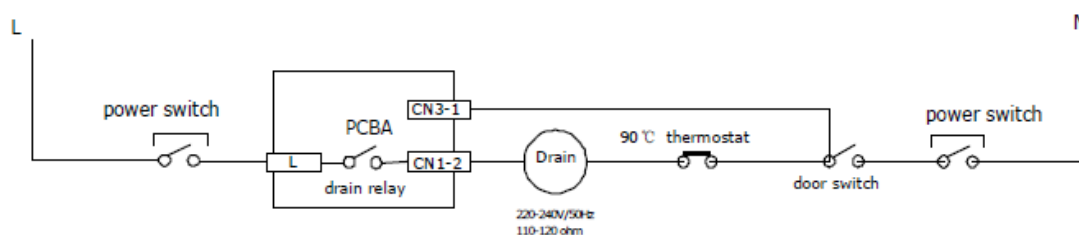


2.1.12 排水泵

Draining Pump

排水泵本质是一个电机，在洗涤完成后，由主控板控制运行，通过旋转带动叶轮将洗涤后的污水从排水管排出。在如果排水泵损坏或排水系统出现故障（如堵塞），则反馈形成排水报警（E3 代码）。

The draining pump is in fact a motor, which is under the control of Main PCBA. It drives impellers to drain wastewater via draining hose. Under circumstance of draining pump damage or Drain system failure (such as, block), and then a drain error occurs. (Error Code E3).

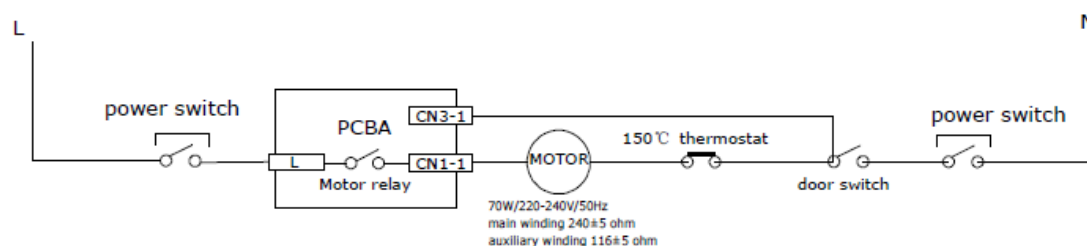
Drain Pump

2.1.13 洗涤泵

Washing Pump

洗涤泵本质上是一个电机，工作后为将洗涤水泵入喷淋系统进行洗涤和循环，是洗碗机的洗涤动力来源。

The washing pump is in fact a motor, pushing water into the spraying system for washing and recycling. It is the power source for washing.

Washing Motor

2.1.14 温度传感器

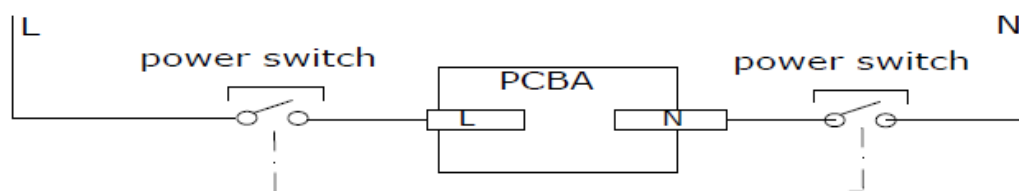
Temperature Sensor

温度传感器运用热敏电阻的特性来检测温度的变化。温度传感器检测到洗涤水的温度变化，将信号反馈给主控板。主控板根据洗涤程序的水温设定，控制发热管的加热通、断电。当温度传感器出现故障或线路不通时，形成温度传感器报警（E4 代码）。

The temperature sensor detects temperature variation by using the characteristics of thermal resistor. The temperature sensor detects temperature variation of water, and then sends the signal to Main PCBA. The Main PCBA controls the heater based on water temperature of the washing program. In case of temperature sensor failure or circuit block, and temperature sensor error occurs (Error Code E4).

2.1.15 电源开关（部分机型无此物料）

Power Button (Some model without this button)

Power Up

2.1.16 电源滤波器

Power Filter

电源滤波器起到电源稳压、防止信号干扰、机器接地的作用。

Power filter has function of stabilize voltage, preventing signal interference and grounding.

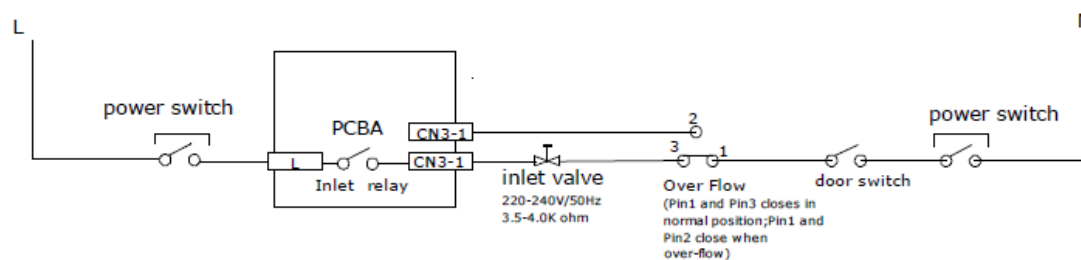
2.1.17 溢流保护装置

Overflow Protection

当水位过高时，水沿溢流管流到底盘，浮子浮起触动微动开关，信号传至电控板，形成溢流报警（E5 代码），并开启排水泵，停止其他负载。

In case of higher water level, water flows to the bottom along the overflow pipe, the overflow floater floats up and touches the micro switch, and signal is sent to Main PCBA, and then overflow error occurs (Error code E5), and meanwhile make the draining pump work, and stops loading.

Fill and Overflow



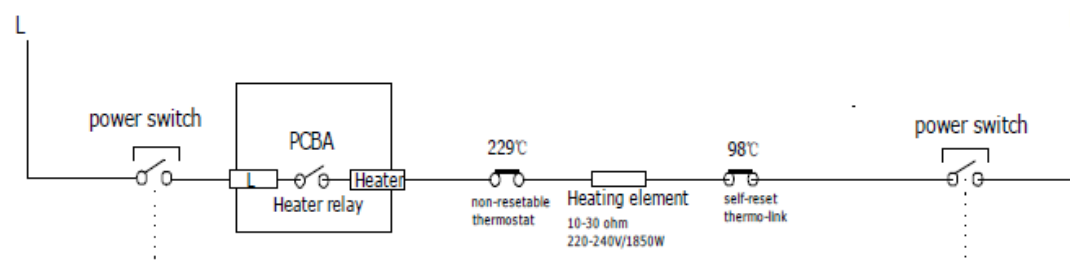
2.1.18 发热管

Heater

发热管是利用发热电阻材料制成，使水槽里洗涤水流经发热管受热后进入洗涤泵再进入洗涤循环，是余温干燥的热量来源，在洗涤程序特定的时间点启动工作。如果发热管损坏或加热异常，则反馈形成加热器报警（E7 代码）。

The heater, made up of heating resistive materials. It drives water to be heated, and then flows from sump to washing pump, and then into washing cycle. It is heating sources during drying. It works at the certain time set by washing process. In case of heater damage or abnormalities during heating, and then heating error occurs (Error code E7).

Heater Element



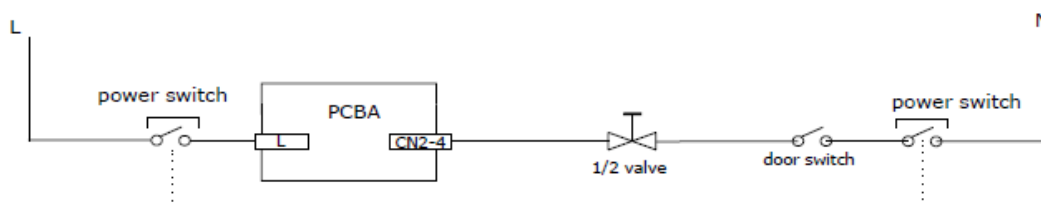
2.1.19 分水系统（交替洗机型）

Water distribution system (Dual Zone Wash type)

分水系统通过一个同步电机和分水板使机器上下喷臂交替转动，达到交替洗效果。

Water distribution system, adopts a synchronous motor and an alternative dispenser block, enabling alternating rotation of its upper and lower spray, so as to realize the alternative washing.

1/2 valve

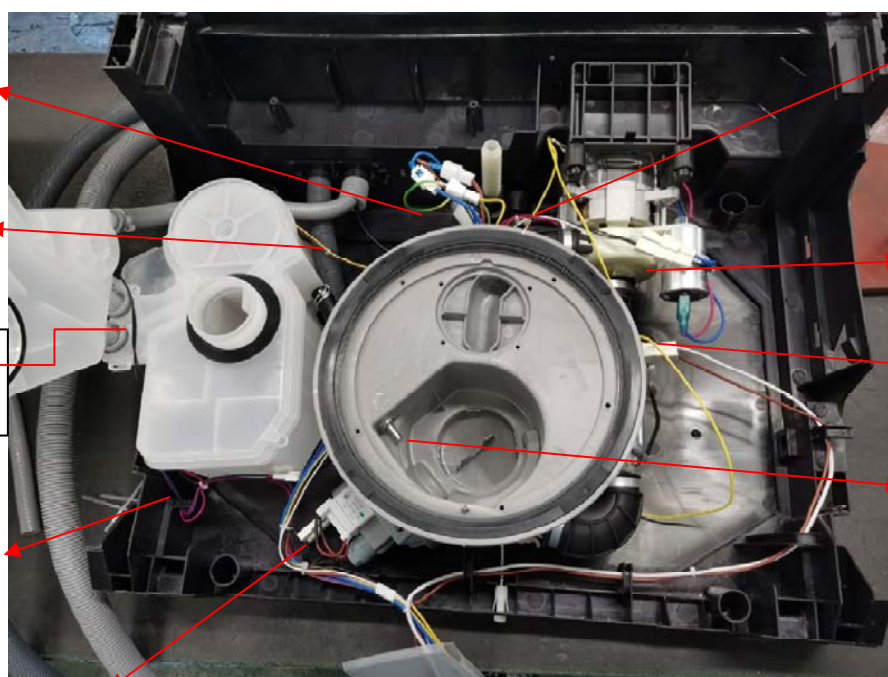


2.1.20 导线束

Wiring

(1) 60 机带软水功能 (欧洲) 非交替洗机型线束

Wiring of 60-cm model with softener without dual zone wash (European Model)



电子式进水管：蓝、黄
Aqua Stop: Blue, Yellow

软水器干簧管：红、红
Reed pipe of softener: Red, Red

呼吸器流量计：黑、黑
Flow meter of Air Breaker: Black, Black

软水器电磁阀：蓝、粉/粉
Softener Valve: Blue, Pink/Pink

排水泵：红、黑/黑
Draining Pump: Red, Black/Black

溢流开关：红、粉
Overflow: Red, Pink

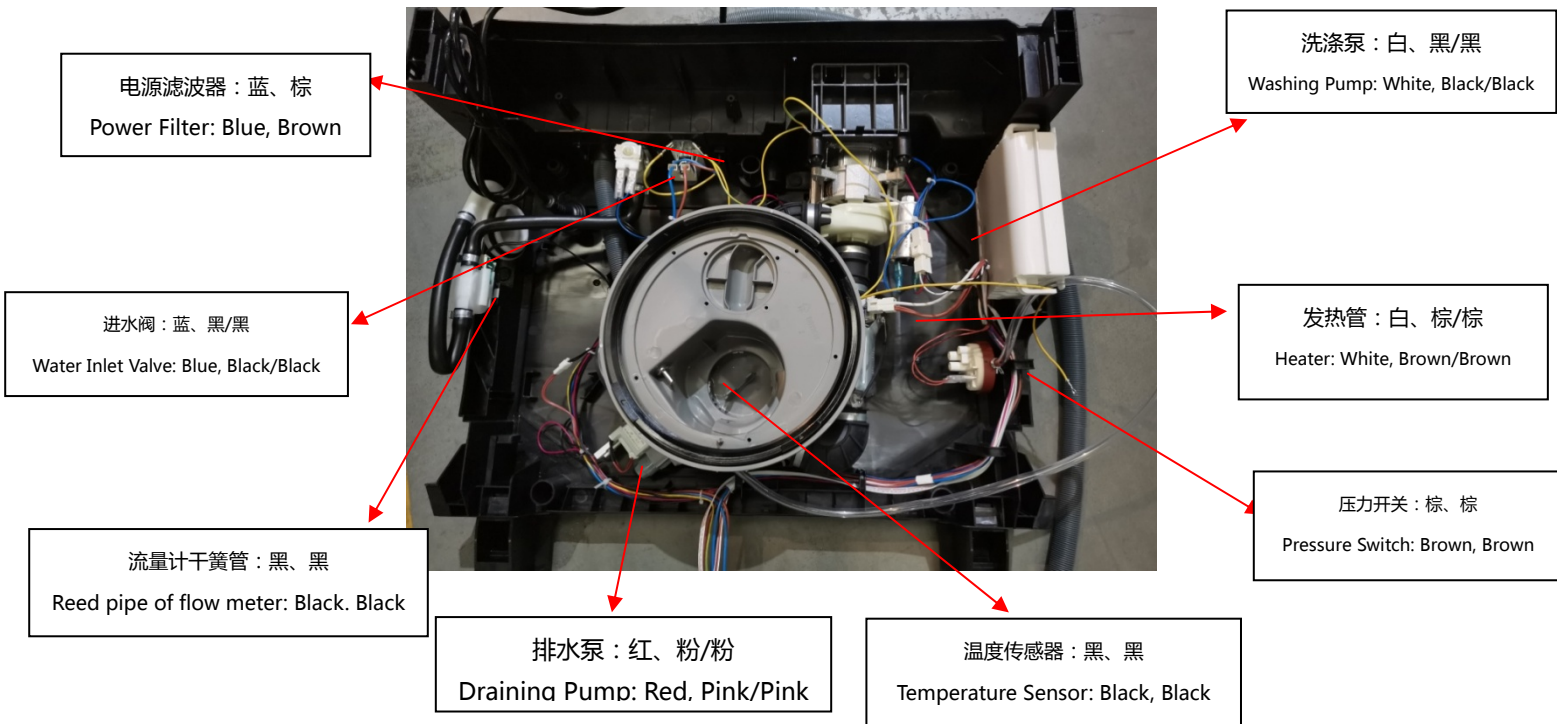
洗涤泵：白、黑/黑粉
Washing Pump: White,
Black/Black pink

发热管：红、白
Heater: Red, White

温度传感器：黑、黑
Temperature Sensor:
Black, Black

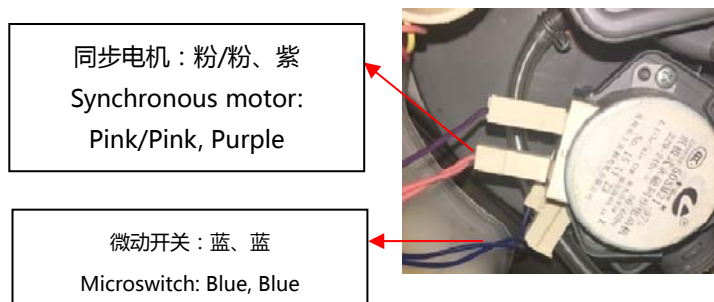
(2) 60 机不带软水功能 (澳洲) 非交替洗机型线束

Wiring of 60-cm model without softener and dual zone wash (Australian Model)



(3) 交替洗同步电机接线图

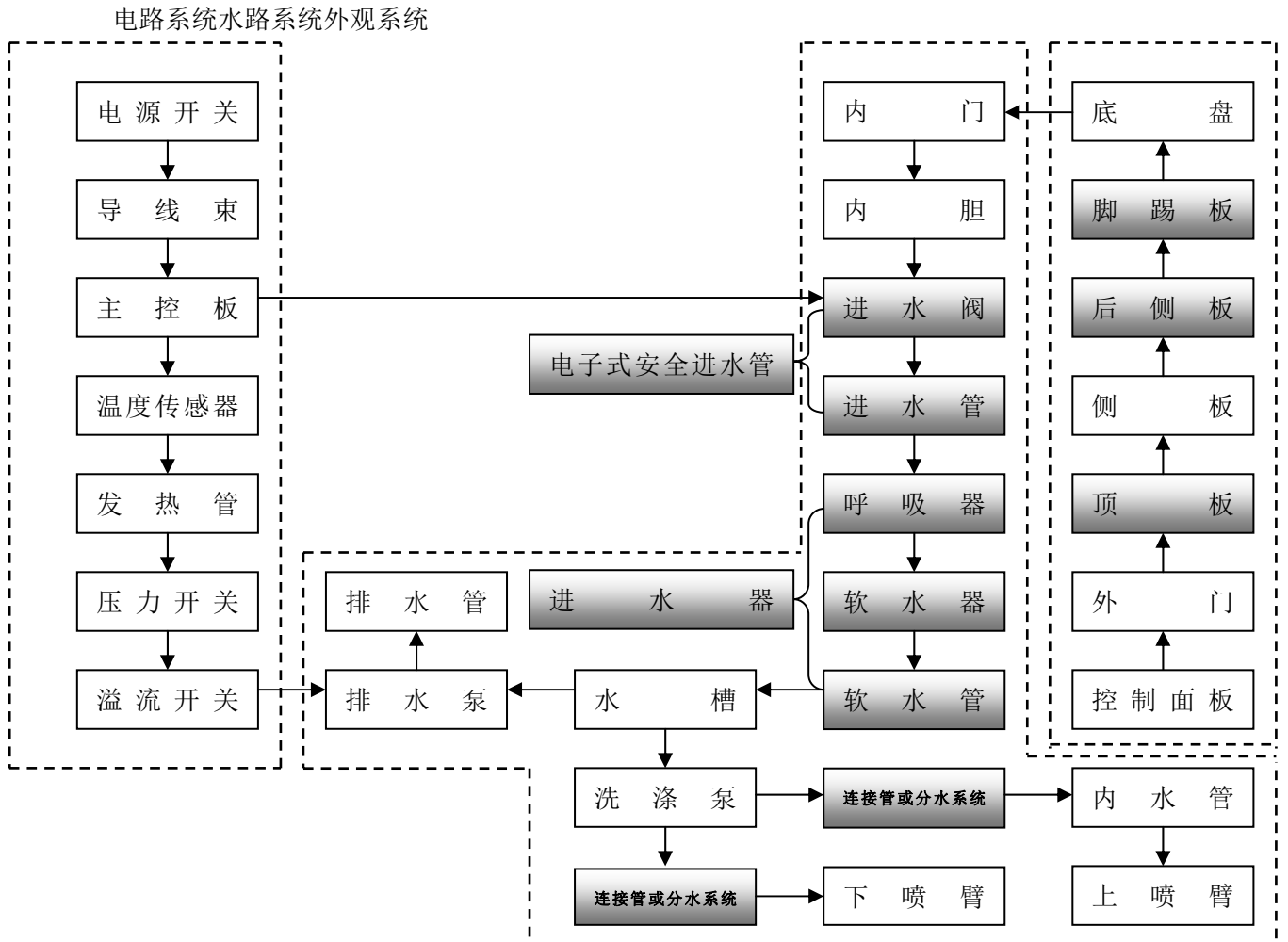
Wiring of dual zone washing synchronous motor

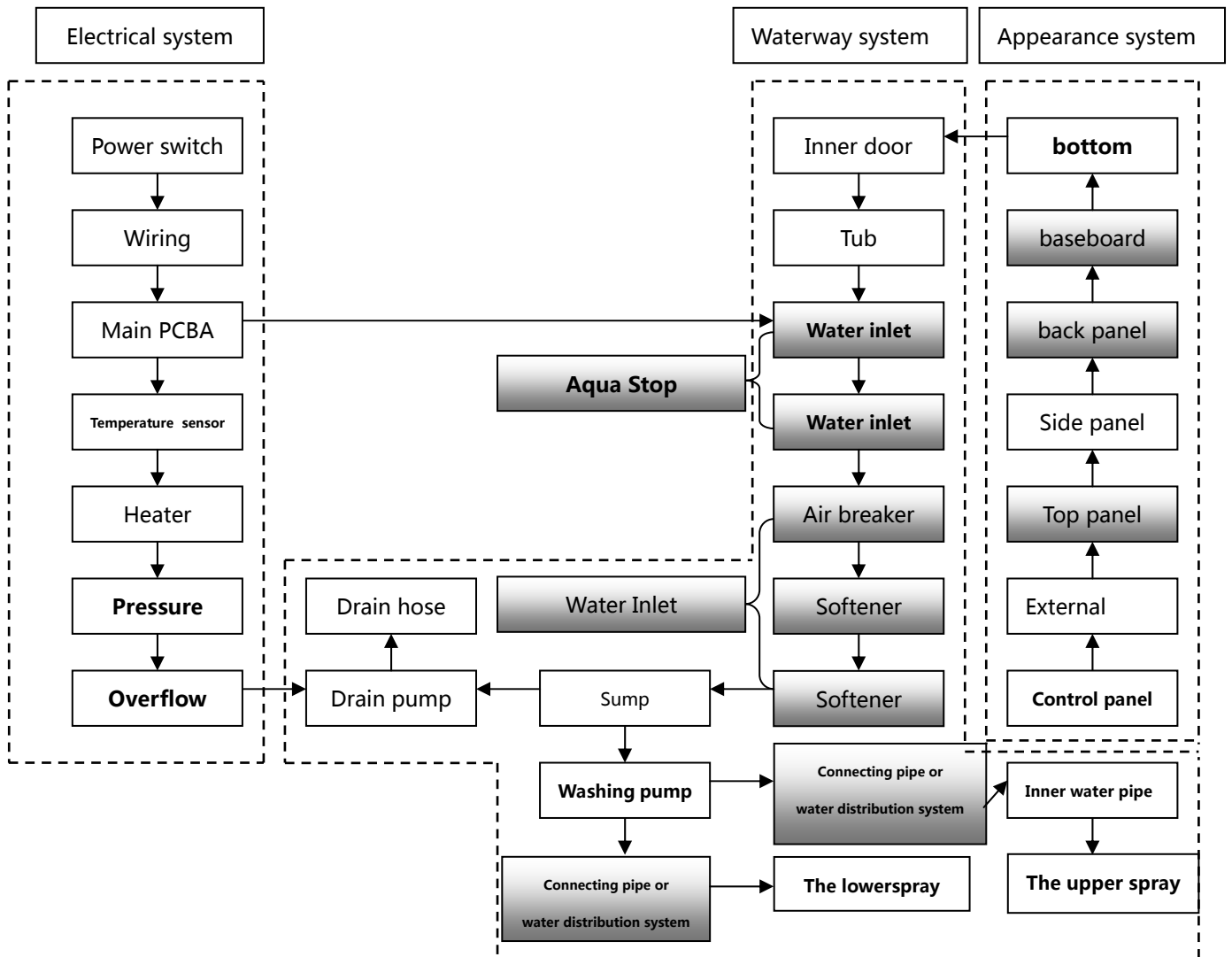


2.2 洗碗机系统原理图 (灰色框标注指不同配置存在差异)

System schematic diagram of dishwasher

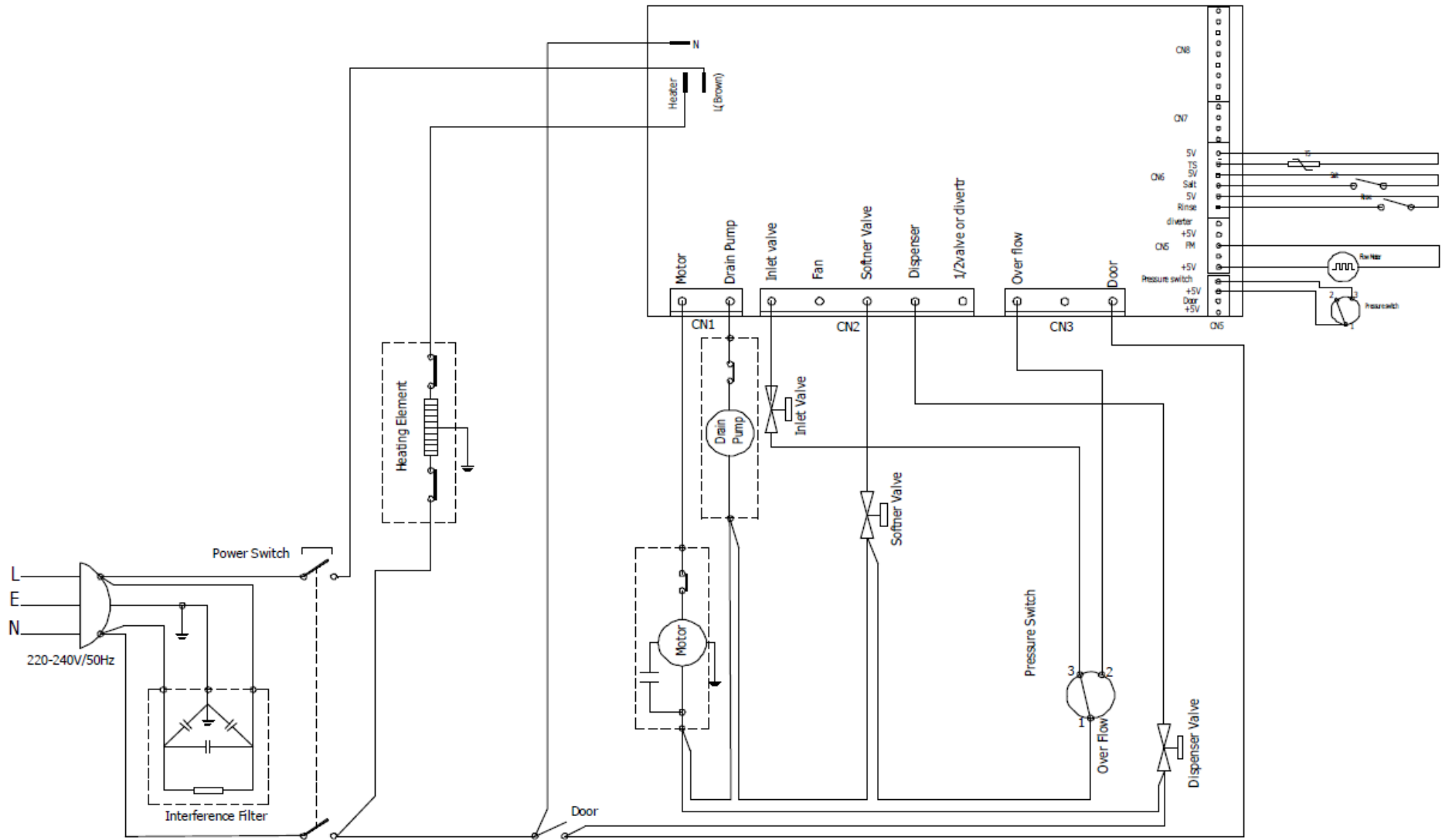
(Grey background shows that discrepancies exist in different configurations)





2.3 整机电气原理图（通用示意图）

Electrical schematic diagram of dishwasher(Applied for all model)

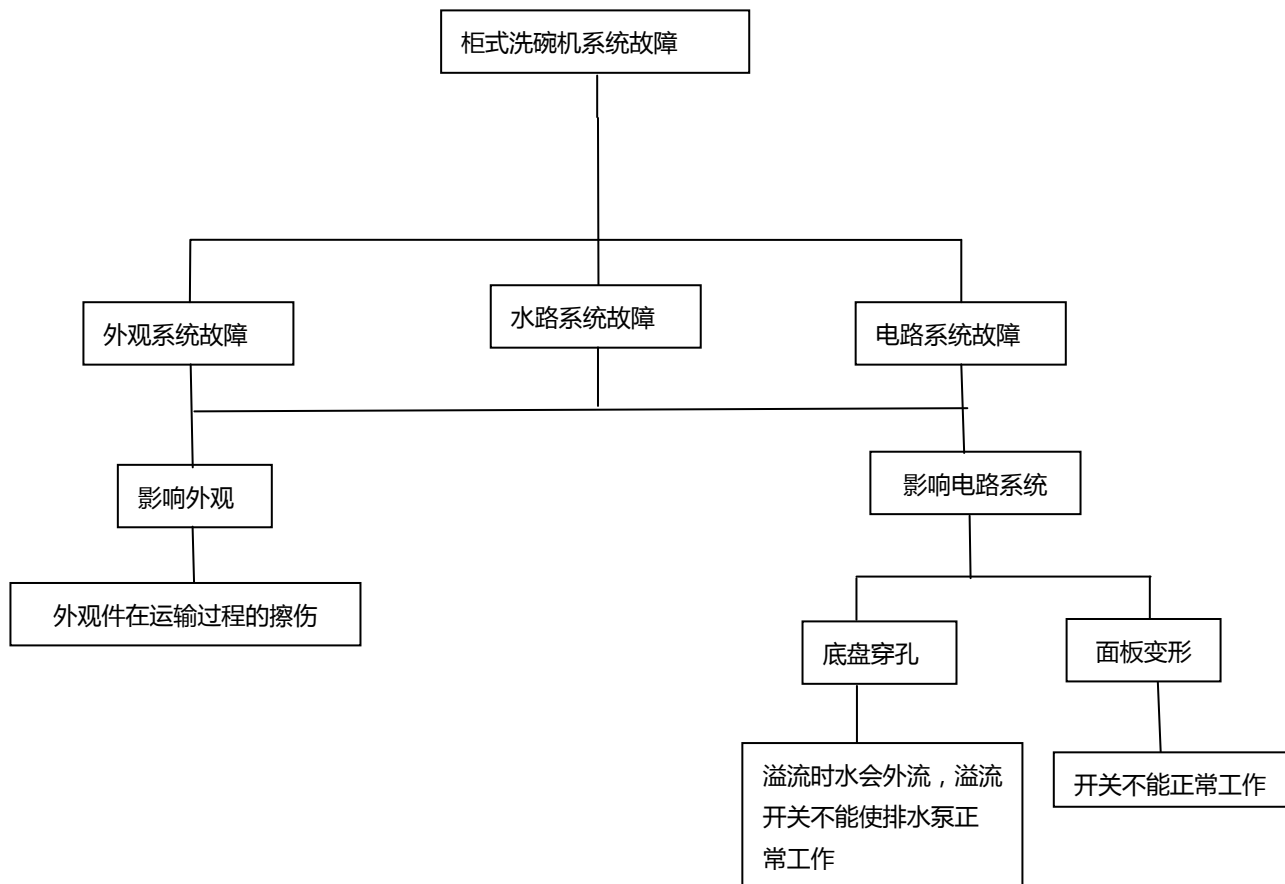


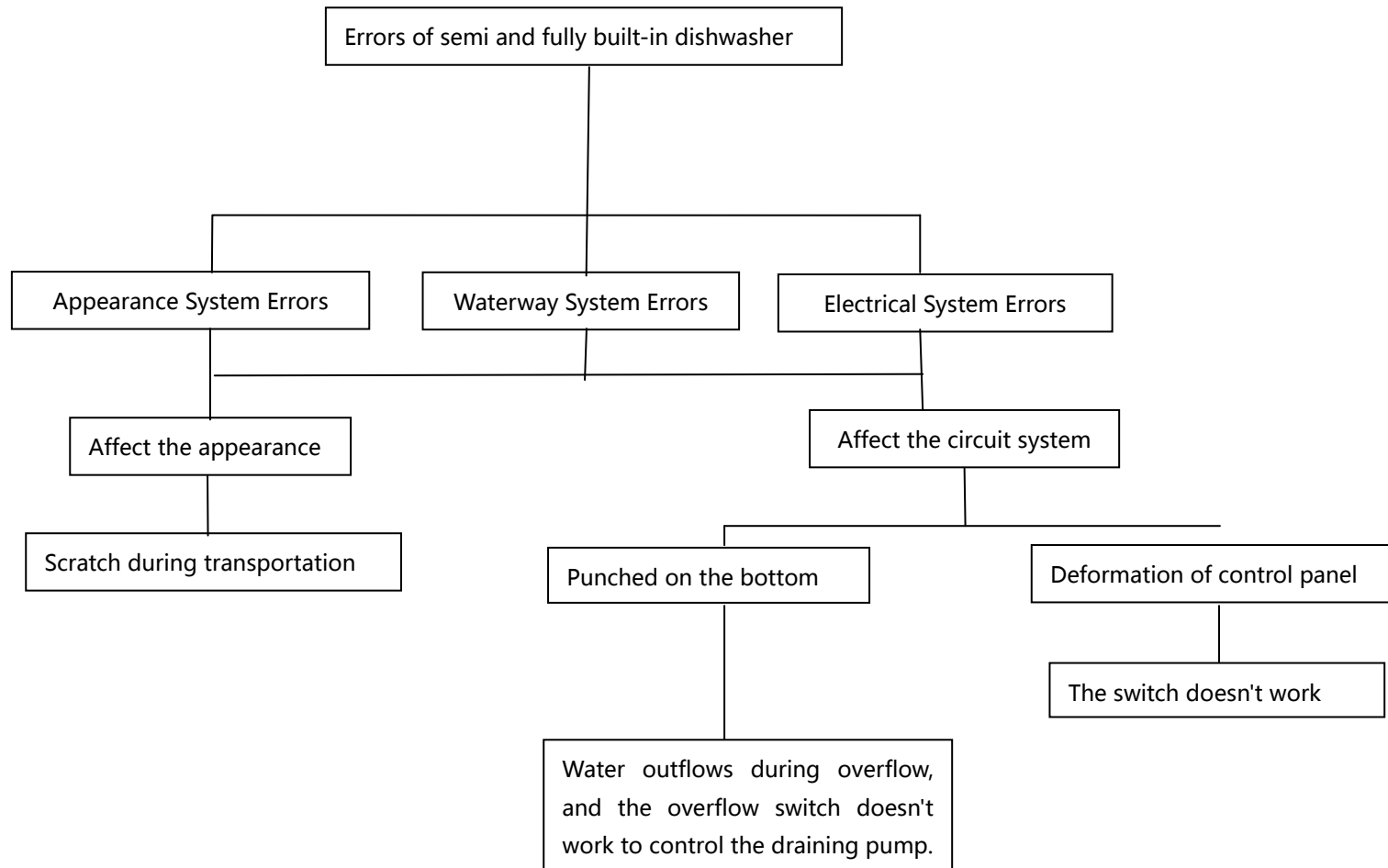
1. 洗碗机常见故障诊断及维修方法

Common errors and maintenance methods of dishwasher

3.1 洗碗机故障树

Errors list of dishwashers





3.1.1. 水路系统故障 ***Waterway Errors***

(1) 软水器故障 **Softener Failure**

- 软水器螺母松动 Softener nut loose
- 漏树脂 Resin leakage
- 软水器内漏 Softener leakage
- 电磁阀密封圈漏水 Water leakage of seal for water inlet valve

(2) 呼吸器故障 **Air Breaker Failures**

- 焊缝漏水 Water leakage at a welded seam
- 呼吸器螺母松动 Air Breaker nut loose

(3) 内胆故障 **Tub Failure**

- 内门变形 Deformation of Inner door
- 内胆破裂 Breakage of tub
- 内胆生锈 Rust of tub

(4) 进水管故障 **Inlet hose Failures**

- 不进水 does not intake water
- 进水不停 intaking water continuously

(5) 进水阀故障 **Water inlet valve Failures**

- 水管破裂 Breakage of hose
- 弯头断裂 Breakage of elbow

(6) 水槽故障 **Sump Failures**

- 水槽破裂 Breakage of sump
- 水槽密封不严漏水 Water leakage of seal for sump

(7) 洗涤泵故障 **Washing pump Failures**

- 连接弯管漏水 Water leakage of connection elbow
- 有噪音 Noise
- 漏电 Electricity leakage

(8) 连接管故障 Connecting pipe Failure

- 漏水 Water leakage
- 漏电 Electricity leakage

(9) 上、下喷臂故障 **Upper and lower spray arms Failures**

- 上喷臂水管破裂 Breakage of water pipe for the upper spray arm
- 出水口堵塞、偏位 Blocking and deviation of water outlet
- 喷臂变形 Deformation of the spray arm

(10) 排水泵故障 **Draining Pump Failures**

- 漏水 Water leakage
- 排不出水 could not drain
- 噪音 Noise

(11) 排水管故障 **Draining hose Failure**

- 使用不当造成虹吸 Siphon due to improper use

3.1.2. 电路系统故障 **Electrical system fault**

(1) 电源开关故障 **Power switch Failure**

- 连接线接触不良 Poor connection of wire
 - a) 端子松脱 Terminal loose
 - b) 端子烧坏 Terminal burned
- 开关失灵 Switch malfunction
 - a) 接触点接触不良 Poor connection of contactors
 - b) 弹簧弹力不足或弹片烧坏 Poor elasticity of the spring or its burned

(2) 溢流开关故障 **Overflow switch**

- 连接线接触不良 Poor connection of wire
 - a) 端子松脱 Terminal loose
 - b) 端子烧坏 Terminal burned
- 开关失灵 Switch malfunction
 - a) 接触点接触不良 Poor connection of contactors
 - b) 弹簧弹力不足或弹片烧坏 Poor elasticity of the spring or its burned

(3) 门锁故障 **Door lock Failure**

- 连接线接触不良 Poor connection of wire
 - a) 端子松脱 Terminal loose
 - b) 端子烧坏 Terminal burned

- 开关失灵 Switch malfunction
- a) 接触点接触不良 Poor connection of contactors
 - b) 弹簧弹力不足或弹片烧坏 Poor elasticity of the spring or its burned
- (4) 分配器故障 **Detergent Dispenser Failures**
 - 电磁阀干烧或有噪音 Overheat or noise of valve
 - 粉盒盖不能正常开闭 The cap cannot be opened or closed as usual
 - 亮碟剂投放不及时 Rinse agent is added not in time
 - 密封不严漏水 Water leakage due to poor sealing
 - 缺亮碟剂指示灯失效 Failure of the indicating lamp of rinse agent shortage
- (3) 温度传感器故障 **Temperature sensor Failure**
 - 密封不严漏水 Water leakage due to poor sealing
 - 端子松脱或烧坏 Terminal loose or burned
 - 触点接触不良 Poor connection of contactors
- (4) 发热管故障 **Inlet hose Failures**
 - 连接弯管漏水 Water leakage of the connecting elbow
 - 漏电 Electric leakage
 - 变色生锈 Color change and rust
 - 管体破裂 Breakage of the pipe
- (5) 压力开关故障 **Pressure switch**
 - 动作值偏大或偏小 Over-high or over-low action values
 - 压力开关内压力传感失效 Failure of pressure sensing of the pressure switch
 - 端子触点接触不良 Poor contact of terminal
 - 与连接管密封不严 Poor sealing of the connecting pipe
- (6) 主控板故障 **Main PCBA**
 - 触点短路 Short circuit of contactors
 - 线端子松动接触不良 Poor contact of loose terminal

3.2E1-E7 报警及常见故障诊断与维修

Error code from E1-E7 and common errors and its maintenance

!提示

机器出现报警故障或其他故障时，由于不同机器的外观及配置存在差异，可按照随机器配送给用户的《洗碗机说明书》对机器进行操作，并需参考《洗碗机说明书》中的内容来定义故障代码。

! Reminder

In case of alarm failure or other failures, due to differences between different appearances and configurations, users may maintenance machine based on the *Dishwasher Service Manual* and refer to the *Dishwasher Service Manual* to identify the errors codes.

E1-E7 报警故障及其他常见故障诊断与维修见下表：

The following list is for Error code from E1-E7 and common errors and its maintenance.

不良问题描述	诊断方法	原因分析	维修方法
未加亮碟剂时粉灯不亮	拔下分配器干簧管连接线，直接将连接线短接，再通电检查。如果粉灯亮，则为分配器干簧管不良；如果粉灯不亮，则可能为干簧管不良或为线断；	干簧管不良 或导线束断路	更换分配器 详见 4.1.4 (3)
	用万用表测干簧管与主控板连接线通断情况，如断路则表明线束断路；	线束断路	更换导线束 详见 2.1.20
	1. 拆机后检查主控板排线是否存在松脱； 2. 拆外门后检查分配器干簧管线端子是否存在松脱的现象；	线未插好或插错位（主控板的线排和干簧管线端子）	重新插好连接线
	更换新的显示板验证，如新的显示板指示灯亮而原来显示板不亮，则表明原显示板不良；	显示板不良	更换显示板 详见 4.1.5
	断开主控板 CN6 亮碟剂检测开关（白、白）的接口，缺亮碟剂指示灯应亮，短接 CN6 亮碟剂检测开关（白、白）的接口，缺亮碟剂指示灯应灭； 如果不是则表明主控板不良。	主控板不良	更换主控板 详见 4.3.7
未加盐时盐灯不亮	拔掉软水器干簧管连接线，直接将连接短接，再通电检查。如果盐灯亮，则为软水器干簧管不良；如果盐灯不亮，则可能为干簧管不良或为线断；	干簧管不良 或线束连接不良	更换软水器 详见 4.3.3 (2)
	用万用表测量软水器干簧管与主控板连接线的通断情况；	干簧管线端子线芯断	更换导线束 详见 2.1.20
	1. 拆机后检查主控板的连接线是否存在松脱的现象； 2. 拆左侧板后检查软水器干簧管线端子是否存在松脱现象；	线未插好或插错位（主控板的线排和干簧管线端子）	重插软水器干簧管线
	更换新的显示板验证，如新的显示板指示灯亮而原来显示板不亮，则表明原显示板不良；	显示板不良	更换显示板 详见 4.1.5
	断开 CN6 盐检测开关（红、红）的接口，缺	主控板不良	更换主控板

	盐指示灯应亮, CN6 盐检测开关 (红、红) 的接口, 缺盐指示灯应灭, 如果不是则表明主控板不良。		详见 4.3.7
E1 开门报警	拆面板组件后检查门锁微动开关的插线情况;	门锁微动开关线接触不良	重插门锁微动开关线 详见 4.1.5
	机器运行程序过程中处于关门状态时出现 E1 报警, 且重启后程序无法启动, 则表明门锁组件不良。	门锁组件不良	更换门锁组件 详见 4.1.5
E2 进水报警 (进水异常、水位高、一直进水)	拆面板组件 (或右侧板) 后检查主控板上流量计线的插线是否存在松脱的现象;	主控板线排未插好	重插线排 详见 4.1.5
	用万用表测量主控板上流量计的线的通断情况;	呼吸器流量计线芯断	更换导线束 详见 2.1.20
	检查导线束线端子与流量计干簧管线端子的连接情况	导线束线端子与流量计干簧管端子接触不良	重插干簧管线端子或更换导线束或更换流量计线端子 详见 2.1.20
	用万用表测量呼吸器或流量计上的干簧管的通断情况, 未通水的情况下干簧管应处于断开状态。	干簧管不良	更换呼吸器或流量计 详见 4.3.2
E2 进水报警 (水位低、进水异常)	1、用万用表测量压力开关的通断情况, 内胆里没有水时应处于断开状态, 进水量正常时应处于闭合状态; 2、目测压力开关管内是否有水;	压力开关不良	更换压力开关 详见 4.3.10
	拔开压力开关管后, 在管口吹气 (正常情况下, 在吹气的同时用手感觉水槽内应该有气流), 然后将压力开关管插回原位, 再进水检查。	水槽焊接气室盖堵塞	更换水槽 详见 4.2.8
E2 进水报警 (不进水)	拆机检查主控板的连接线有无虚插、松脱、插偏位的现象;	主控板线插偏位或接触不良	重插线端子
	先检查进水阀的线端子是否有松脱, 再用万用表检查导进水阀与主控板连接线的通断;	进水阀线未插好或导线束的进水阀线芯断	插好进水阀线端子或更换导线束 详见 2.1.20
	用一条新的电源线, 直接将零线、火线插在进水阀的线端子上, 通电检查进水阀是否能正常工作;	进水阀或主控板不良	更换主控板 详见 4.3.7 或更换进水阀 详见 4.2.2
E3 排水报警	检查排水安装情况, 正常情况下排水管最高点处于 40cm-100cm 之间, 且管口未堵塞;	排水管未按正确的方式安装连接	详见《洗碗机说明书》 《洗碗机安装说明书》
	在排水阶段, 用万用表检查压力开关的状态变化, 正常情况下压力开关在排水过程中应该由闭合变为断开状态;	压力开关不良	更换压力开关 详见 4.3.10
	检查排水泵接线, 主控板接线是否存在松脱, 检查两者连接线是否存在断路情况;	线端子连接不良或线束断路	重新插好线端子或更换导线束 详见 2.1.20
	检查排水泵直接通电后是否能正常工作。	排水泵不良	更换排水泵 详见 4.3.5

E4 温度传感器报警	拆机检查主控板的连接线有无虚插、松脱、插偏位的现象；	主控板连接线松脱	重插主控板连接线
	拆机后检查温度传感器的连接线芯倒扣是否断裂或折断的现象；	导线束与温度传感器连接线松脱	重插导线束连接线
	用万用表测量温度传感器在常温（25℃）下的阻值，正常情况下应处于 50kΩ左右。	温度传感器不良（阻值不正常）	更换温度传感器 详见 4.3.1
E5 溢水报警	1、拆底板后检查溢流浮子，正常情况下没有卡住的现象； 2、拆底板后检查溢流开关的弹片是否卡住；	溢流微动开关处于一直毕合的状态；	重装溢流浮子
	拆塑料底盖，检查底部是否有水或存在渗水、漏水情况。	漏水过后溢流微动开关处有水	修理漏水部位并清干底盘的水迹
E6 漏水报警	用万用表测量压力开关的通断情况，水位正常时压力开关应处于闭合状态；	压力开关不良	更换压力开关 详见 4.3.10
E7 加热报警	拆右侧板，检查发热管连接线是否插到位；	发热管未插或接触不良	重新插好连接线
	拆右侧板（或控制面板）检查主控板的连接线有无虚插、松脱、插偏位的现象；	主控板连接线松脱	重新插好连接线
	用万用表检查发热管与主控板连接线的通断；	导线束线芯断	更换导线束 详见 2.1.20
E8 分水系统报警	检查分水系统同步电机的装配情况	同步电机未装好	重装同步电机 详见 4.3.8
	拆内水管和分水板、过滤器支座后检查分水片处是否有异物	分水片卡住异物	取出异物 详见 4.2.7
	检查分水系统插线情况	同步电机或主控板线松脱/虚插（接触不良）	重插连接线 详见 2.1.20
不通电	拆机分别检查电源开关、主控板的连接线是否有漏插或松脱的现象；	电源开关、主控板线插错或接触不良	重插连接线 详见 2.1.4
	将电源线插电后，用万用表测量电源线的零线、火线处是否有额定电压；	电源线不良	更换电源线 详见 4.2.1
不显示	拆机后检查显示板与主控板两端的连接线是否插到位；	排线两端未插好或线断	重插排线
程序不能启动/暂停启动键失灵	拆开面板后，用万用表检测门锁微动开关的闭合和断开时是否正常通断电，如果闭合和断开时都不通电则为不良	门锁微动开关不良	更换门锁微动开关或门锁组件 详见 4.1.5
	反拉门锁微动开关线是否存在松脱或断裂的现象；	门锁开关线松脱或线芯断	修理线端子或更换线束 详见 2.1.20

	更换新的显示板验证,如新的显示板能正常启动程序,而原有显示板不能正常启动/暂停,则表明原显示板不良;	显示板不良	更换显示板 详见 4.1.5
	更换新的主控板验证,如新的显示板能正常启动程序,而原有显示板不能正常启动/暂停,则表明原显示板不良。	主控板不良	更换主控板 详见 4.3.7
分配器有噪音	用手轻摇分配器电磁阀不松动	分配器电磁阀螺钉未紧固好;	紧固分配器电磁阀螺钉 详见 4.1.4 (3)
	通电在分配器工作阶段,用手压位电磁阀检查电磁阀是否有噪音。	分配器电磁阀起翘;	更换分配器 详见 4.1.4 (3)
洗涤泵不工作	拆机检查插线用 30N 力反拉洗涤泵线端子不松脱。	洗涤泵线端子松脱或线端子未铆好;	重新铆接线端子或更换导线束 详见 2.1.20
	1、拆塑料底盖,检查电容的线是否有松脱的现象; 2、拔洗涤泵连接线,用电源线的零线、火线直接将洗涤泵连接,通电后检查洗涤泵是否工作。	洗涤泵不良;	更换洗涤泵
	拆机检查洗涤泵内是否有异物	洗涤泵卡住异物	拆机后取出异物或更换洗涤泵
程序错乱,显示屏乱码	显示板或主控板不良;	显示板或主控板不良;	或更换显示板 详见 4.1.5 更换主控板 详见 4.3.7
关门后门缝漏蒸汽或有水珠喷出	目测漏蒸汽位置	门体与内胆密封不严、机器位置不水平、密封条老化	调整漏蒸汽部位的内胆密封条、将机器调整至水平、或更换重新安装内胆密封条
软水器不再生水	拆开软水器电磁阀检查是否有异物卡住阀芯	软水器电磁阀故障导致通路	更换软水器 详见 4.3.3 (2)
	软水效果不明显,或内胆有水垢	再生频次过低	按照说明书调高再生水的频次 《洗碗机说明书》
漏电	用万用表检查电源线及插座接地是否良好	接地不良	将机器电源接地并避免和其他电器共用插座
	检查操作方式,禁止湿手接触电器	操作不当或静电	采用正确方式操作即可
	拆开机器底盘检查地线连接情况	地线接触不良	重新插好接不良端子

Problem Description	Method	Cause	Maintenances
Rinse-aid light lamp	Unplugreed pipe wireof	Reed pipeis poor orWire breakage	Replace the detergent dispenser

does not work	detergent dispenser, and form a short circuit and then power up. If the lamp is on, then the reed pipe of detergent dispenser is poor; If the lamp is not on, then the reed pipe is poor or wire breakage.		See details in 4.1.4 (3)
	Use a multimeter to check the connection between reed pipe and main PCBA. If there is a short circuit, means wire short circuit.	Short Circuit	Replace the wiring See details in 2.1.20
	1. Disassembly the machine and check where the wires on the Main PCBA to see is loose or not. 2. Disassembly the outer door and check whether reel pipe terminal of dispenser detergent loose or not.	Poor or wrong wire connection (Wires on the Main PCBA and reel pipe terminal of dispenser detergent)	Reconnect the wire
	Replace the display PCBA, and then check where the salt lamp could work or not. If the lamp could work after replaced, the old display PCBA is failure.	Failure of the Display PCBA	Replace the Display PCBA See details in 4.1.5
	Disconnect switch CN6(White, White) on Main PCBA, and the salt lamp is on. And then form a short circuit, the salt lamp is off. The Main PCBA is failure.	Failure of the Main PCBA	Replace the Main PCBA See details in 4.3.7
Salt lamp does not work	Unplug reed pipe wire of softener, and form a short circuit and then power up. If the lamp is on, then the reed pipe is poor; If the lamp is not on, then the reed pipe is poor or wire breakage.	Reed pipe is poor or Wire breakage	Replace the softener See details in 4.3.3 (2)
	Use a multimeter to check the connection between softener reed pipe and main PCBA. If there is a short circuit, means wire short circuit.	Breakage of the core of terminal	Replace the wiring See details in 2.1.20
	1. Disassembly the machine and check where the wires on the Main PCBA to see is loose or not. 2. Disassembly the left panel and check whether reel pipe terminal of softener loose or not.	Poor or wrong wire connection (Wires on the Main PCBA and reel pipe terminal of softener)	Reconnect the wire of the reel pipe

	Replace the display PCBA, and then check where the salt lamp could work or not. If the lamp could work after replaced, the old display PCBA is failure.	Failure of the Display PCBA	Replace the display PCBA See details in 4.1.5
	Disconnect switch CN6(Red, Red)on Main PCBA, and the salt lamp is on. And then form a short circuit, the salt lamp is off. The Main PCBA is failure.	Failure of the Main PCBA	Replace the main PCBA See details in 4.3.7
Error Code E1 Alarm of door is opened	Remove the control panel and check wire connection of door lock microswitch.	Poor connection of wire.	Reconnect wire of door lock microswitch. See details in 4.1.5
	Error Code occurs when the door is closed. After reboot the machine, error code still occurs. It shows door lock is failure.	The door lock is failure.	Replace the door lock See details in 4.1.5
Error Code E2 inlet water alarm (abnormality of inlet water, high water level and water intaking continuously)	Remove the control panel (or the right panel) and check the flow meter connection wire on the Main PCBA.	Poor connection of wire on the Main PCBA	Reconnect the wire on the Main PCBA See details in 4.1.5
	Use a multimeter to check wire connection of the flow meter.	Breakage of connection wire of air breaker.	Replace the wiring See details in 2.1.20
	Check the connection of flow meter reed pipe.	Poor connection of flower meter reed pipe.	Reconnect the reed pipe.
	Use a multimeter to check connection of air breaker or flow mere.	The reed pipe is poor.	Replace the air breaker or the flow meter. See details in 4.3.2.
Error Code E2 inlet water alarm (abnormality of inlet water, lower water level)	1. Use a multimeter to check connection of the pressure switch; 2. Check where there is water in pressure switch hose or not.	Failure of pressure switch	Replace the pressure switch See details in 4.3.10
	Unplug the pressure switch hose, blow air into the hoseand meanwhile feel withhands to see whether there is air flow inside the hose), and then plug the pressure switch hose and then test.	Blockat the cap of sump welding.	Replace the sump See details in 4.2.8
Error Code E2 inlet water alarm (machine does not intake water)	Disassembly the machine and check whetherconnection of main PCBAs loose or wrong.	Poor connection of Main PCBA	Reconnect the Main PCBA.
	Check the connection of water inlet valve firstly, and then use a multimeter to check the connection between water inlet valve and Main PCBA.	Poor connection or disconnection of water inlet valve.	Reconnection or replace the wiring See details in 2.1.20
	Replace a new wire, and then	Failure of water inlet valve or the	Replace the Main PCBA

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	connect water inlet valve to check whether the water inlet valve work or not	Main PCBA	See details in 4.3.7 Or replace the water inlet valve See details in 4.2.2
Error Code E3 Alarm of water draining	During installation, make sure that the draining hose is hung up a height of 40cm-100cm.	Incorrect installation of draining hose.	See details in <i>Dishwasher Service Manual</i> and <i>Dishwasher Installation Manual</i>
	During draining water, use a multimeter to check the pressure switch.	Pressure switch is poor.	Replace the pressure switch See details in 4.3.10
	Check the connection of draining pump and Main PCBA and whether there is a short circuit between this two.	Poor connection or Short circuit	Reconnect and replace the wire.
	Check whether the draining pump work or not	Draining pump is failure	Replace the draining pump.
Error Code E4 Alarm of temperature sensor	Disassembly the machine and check whether connection of main PCBA is loose or wrong.	Poor connection of Main PCBA	Reconnect the Main PCBA.
	Disassembly the machine and check whether connection of temperature sensor is loose or wrong.	Poor connection of temperature sensor	Reconnect the temperature sensor
	Check the resistance of temperature sensor under 25°C with a multimeter. The normal values should be 50kΩ.	The temperature sensor is failure	Replace the temperature sensor See details in 4.3.1
Error Code E5 Alarm of overflow	1. Disassembly the plastic bottom and check whether the overflow floater is stuck or not; 2. And then check whether the spring of overflow switch is stuck or not.	The overflow microswitch is closure all the time;	Reinstall the overflow floater
	Remove the plastic bottom cover and check whether there is water on the plastic bottom or not.	Water still exists at the overflow microswitch due to water leakage	Clean up the water on the plastic bottom.
Error Code E6 Alarm of leakage	Check the pressure switch with a multimeter.	Pressure switch is failure	Replace the pressure switch See details in 4.3.10
Error Code E7 Alarm of Heating	Remove the right panel, and check the connection of heating	The connecting wire of heater is not inserted or in poor connection	Reinsert the connecting wire of heater
	Remove the right panel (or control panel) and check whether connection of the main PCBA is loose or wrong.	Poor connection of Main PCBA	Reconnection THE Main PCBA
	Check the connection between the heating and Main PCBA	Poor wire connection	Replace the wire See details in 2.1.20

Error Code E8 Alarm of water distribution system	Check the Installation of synchronous motor	Poor installation of synchronous motor	Reinstall the synchronous motor See details in 4.3.8
	Remove the inner hose, water distribution piece and filter support, and the check whether there are any sundries at the water distribution piece.	Water distribution piece is stuck.	Take out the sundries See details in 4.2.7
	Check the wire connection of water distribution system	Poor wire connection of synchronous motor	Reconnect wire See details in 2.1.20
Machine could not charge	Disassembly the machine and then check the wire connection of power switch and Main PCBA.	Wrong or poor wire connection of power switch and Main PCBA	Reconnection the connecting wire See details in 2.1.4
	1. Measure whether there is rated voltage of null line and firing line with a multimeter after power up.	Power wire is poor	Replace the power wire
LED display or indicator could not work	Disassembly the machine and then check the wire connection between display PCBA and Main PCBA.	Poor wireconnection	Reconnection wire
Machine could not work after power on and pause or start button is failure	Check whether the door lock microswitch is normally turned on and off when it is closed and opened with a multimeter after remove the panel. If it is not energized when it is closed or opened, the door lock microswitch is failure.	Door lock microswitch is failure	Replace the door lock microswitch or door lock assembly See details in 4.1.5
	Pull the door switch wire to check whether it is loose or broken.	The door switch wire is loose or broken	Reconnect or replace the wire. See details in 4.1.5
	Replace the display PCBA, and then check where the machine could work or not. It could work after replaced, and the old display PCBA is failure.	Display PCBA is failure	Replace the Display PCBA
	Replace the Main PCBA, and then check where the machine could work or not. It could work after replaced, and the old Main PCBA is failure.	Main PCBA is failure	Replace the Main PCBA
Detergent dispenser makes noise	Slightly shake the detergent dispenser and check whether its valve is loose or not.	Screws of detergent dispenser valve is loose.	Fasten the screws of detergent dispenser valve See details in 4.1.4 (3)
	Press the detergent dispenser valve with hands and check	The detergent dispenser valve is loose.	Replace the detergent dispenser See details in 4.1.4 (3)

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	whether there is noise or not when dispenser is working		
Washing pump doesn't work	Disassembly machine and then pull and check whether wire of washing pump is loose or not with a 30N force.	Wire of washing pump is loose	Reconnect or replace the wire See details in 2.1.20
	1. Remove the plastic bottom cover, and then whether the wire of capacitance is loose or not 2. Disconnect wire of washing pump, and connect the washing pump with null line and firing line of power wire directly, and then check whether pump could work or not when power on.	Washing pump is failure	Replace the washing pump
	Disassembly the machine and check whether there are sundries in washing pump or not.	Washing pump is stuck	Take out the sundries or replace the washing pump
Program is abnormal and Incorrect error code	Failure of the Main PCBA or Display PCBA	Failure of the Main PCBA or Display PCBA	Replace the main PCBA or Display PCBA See details in 4.1.5
Steam or waterdrops spray out from door gap when the door closed	Check the position	The door seal is poor	Adjust or replace the seal
Water could not recycle	Disassembly the softener valve to check whether it is stuck or not.	Softener valve is failure.	Replace valve or softener See details in 4.3.3 (2)
	Poor performance of softener	The harness level is low	Higher the harness level based <i>Dishwasher Instruction Manual</i>
Leakage of power	Check whether the power wire and plug grounding connection are good or not	Poor grounding	Reconnect plug
	Check operation procedures, do not touch with wet hands.	Incorrect operation or static electricity	Adopt correct operation
	Disassembly the plastic bottom to check the grounding connection	Poor connection of grounding	Reconnect

3.3 日常使用维护

故障	可能原因	解决对策
洗碗机不运行	没有打开电源	确保电源插头已经正确连接好电源，确保洗碗机电源已经打开并且门已关好。
	未正常供水	检查供水设备供水正常，并且已经打开水龙头。
排水泵不能停止	发生溢流	洗碗机装有溢流保护装置，当发生溢流时，洗涤泵被关闭，排水泵被打开。
有噪音	碗篮内的餐具没有放稳而掉落，产生与喷淋器的碰撞声	确保洗碗机内的每一件餐具都放置正确，避免餐具与喷淋器碰撞。
	机械声响	因为水流冲击餐具或洗碗粉盒打开，碰撞而产生的声音。
	洗涤泵的嗡嗡声	洗碗机没有经常使用。如果洗碗机不是经常使用，要确保每个星期都对进水和排水，这样有利于密封条的湿润。
内胆里面有泡沫	洗碗粉使用不正确	为了避免泡沫的发生，请使用洗碗机专用的洗碗粉。如果发生此种情况，首先打开洗碗机，让泡沫挥发掉，然后在内胆里加入 4L 的水，关上洗碗机门，启动预洗程序，将水排出，可反复进行此操作，直到泡沫清除为止。
	有亮碟剂溢出	应该立即对溅出的亮碟剂进行清除。
内胆有污点	使用了染色洗碗粉	请使用单色洗碗粉
餐具洗不干净	选择的洗涤程序不合理	选择更强的洗涤程序进行洗涤。
	碗篮装载不正确	不要让大的餐具干涉喷臂的旋转和洗碗粉盒盖打开。
在玻璃器具和餐具上有斑点和膜状物	1 水的硬度过大 2 进水温度过低 3 洗碗机超载使用 4 不正确的装载 5 使用过期或潮湿的洗碗粉 6 缺少亮碟剂 7 没有正确添加洗碗粉	去除玻璃上的斑点 1 取出洗碗机所有的金属餐具 2 不要添加洗碗粉 3 选择最长的洗涤程序 4 开启洗碗机让其运行 18-22 分钟，洗碗机此时将进入主洗阶段 5 打开洗碗机，将 2 勺白醋倒入洗碗机内胆底部， 6 关上洗碗机门，将整个程序洗涤完毕，如果醋没有起作用，重复以上步骤，用 1/4 勺 (60ml) 柠檬汁晶体代替醋酸。
内表面有棕黄色的薄膜	有茶或咖啡渍	用半杯漂白粉兑三杯温水用手对洗碗机进行清洗。 警告： 一个洗涤程序运行完毕后，至少等 20 分钟让加热管冷却以后才能对内胆进行清洗，否则可能被烫伤
	水中有铁屑可产生薄膜	必须求助专门的软水设备公司安装专用过滤器
内胆表面有白色薄膜	有硬质水矿物	对洗碗机内胆进行清洁，请使用海绵沾上洗碗机专用洗碗粉并戴上橡胶手套清洗，请不要使用其它类型的清洁剂，已避免产生泡沫。
无法锁紧洗碗粉盒盖	锁扣没有复位或堵塞	活动锁扣使其复位 清理锁扣处堵塞物
餐具上有水残留	亮碟剂用量不够	先把门打开 90 度，把分配器档位调到最大，再摆放餐具，关门启动洗碗机。
粉盒内有洗碗粉残留	餐具阻碍了粉盒的打开	重新放好碗篮中的碗、碟

有蒸汽	正常现象	干燥和排水阶段会有少量的蒸汽从门缝漏出
餐具上有黑灰色的点	有铝制品和碗碟发生摩擦	用温和的清洁剂来清除
有水残留在内胆底部	正常现象	内胆底部少量的水能够保持密封条湿润
洗碗机漏水	亮碟剂溢出或溅出	不要让亮碟剂溢出分配器，溅出的亮碟剂会产生大量的泡沫，从而引起溢流现象，请用湿毛巾清除干净溢出的亮碟剂
	洗碗机不平	调整洗碗机调节脚，确保洗碗机放置水平

Maintenance for daily use

Failure	Cause	Maintenance
Dishwasher does not work	The power isn't turned on	Ensure power connected correctly. And ensure that power is turned on, and its door is opened.
	Abnormal water supply	Check water supply is normal, and the faucet is opened.
The draining pump cannot be stopped	Overflow occurs	Dishwasher has overflow protection. When overflow occursthe washing pump will stop working, and the drain pumping will start to work
Noise	Tableware are put incorrectly	Ensure the tableware are put correctly.
	Noise occurs during working	The noise occurs when water washing the tableware and opening detergent dispenser.
	Washing pump makes noise	Dishwasher is not often used. If it is, ensure that inletting and out letting water so that the seal keeps moist.
There is foam in the tub	Incorrect usage of detergent	1.Please use the special detergent for dishwasher. 2.In this case, open the dishwasher firstly, volatilize foam volatilize, and add 4L water into the tub, close its door, start the pre-washing program, draining the water with foam. Do this procedure again and again until the foam is cleaned off.
	Spillover of rinse agent	Clean off the spillover of the rinse agent
Stains in the tub	Dyed detergent is used	Please use monochromic detergent
Tableware is not washed cleanly	Improper washingprogram	Select the proper washing program
	Loading tableware incorrectly	Loading tableware correctly
Spots on tableware	1. Water hardness is high. 2. Water temperature is low. 3. Overloadingtableware 4. Load incorrectly 5. Using overdue or humid detergent 6. Lacking of rinse agent 7. Putting in detergentincorrectly	Clean off the spots. 1. Take out all metal tableware 2. Do not put in detergent. 3. Select the longest-time washing program. 4. And then dishwasher runs for 18 to 22 minutes. 5. Open the outer. Add two spoons of white vinegar to the bottom of tub. 6. Close the door and then complete whole program, if the white vinegar is not taking effect, repeat the above procedures, but using 1/4 spoon of lemon juice crystal.
Brownish yellow film on the internal surface	Tea or coffee stain	Wash dishwasher by hands with 1/2 cup of bleaching powder mixed 3 cups of warm water ▲ Warning When one wash program is finished, cooling the heater for

		at least 20 minutes, and then wash the tub, otherwise you will be burned up.
	Mineral dust in the water	Ask a professional water-softening company for help to install a specific filter
White film on the tub	Mineral dust in the water	Wash dishwasher tub with sponge dipped a specific detergent. Wearing rubber gloves during washing. Do not use other kinds of detergent, which is not used for dishwasher, otherwise foam will occur.
Detergent dispenser could not close tightly	The lock is failure or the lock is blocked	Clean the sundries or Repair the lock
Water on the tableware	The amount of rinse agent is not enough	Open its door with 90 degrees, regulate the dispenser to the highest gear.
Detergent in the detergent dispenser	The tableware blocksto open detergent dispenser	Reload the tableware again.
Steam	It is normal	Little steam will flow out during procedure drying and draining
Dark gray spots on the tableware	Aluminum products collided with tableware	Use mild detergent to clean these spots
Water on the bottom of tub	It is normal	Little water will keep the seal moist
Water leakage	Spillover of rinse agent	Ensure thatrinse agentwill not flow fromdetergent dispenser.If rinse agent spill over, foam will be occurred, which will result inoverflow. Please clean the spillover of rinse agent with wet rag.
	Placing the dishwasher unevenly.	Adjusting its adjustable foot till it level.

4.洗碗机主要零部件拆装方法

Assembly and Disassembly method of Dishwasher' s Main Parts

4.1 外部件拆装

Assembly and Disassembly method of outer parts

4.1.1 顶板拆装 (独立式机型)

Assembly and disassembly of top panel (Free-standing)

(1) 将机器正立, 拆掉机器上后方固定顶板的 2 颗螺钉, 螺钉位置如图 :

Upright the machine firstly, and then removethe 2 screws, which used to fix the top panel, on the back of machine. See the figure:



- (1) 将顶板向后推动，至顶板上卡扣脱离侧板后，斜向上取出顶板，如图：

Push backward the top panel until its buckle detach from the side panel, and then remove the top panel in a lean upward direction. See the figure:



4.1.2 踢脚板拆装（独立式机型）

Assembly and disassembly of base board (Free-standing)

- (1) 将机器向后倾斜,用十字螺丝刀拆下机器正面底部固定踢脚板的4颗螺钉,如图：

Lean backward the machine firstly, and then using cross screwdriver to unscrew 4 screws on the bottom,which used to fix the base board. See the figure:



- (2) 将机器正立，打开机器外门，将踢脚板扣位向上扳动直至扣位脱离脚支架，如图：

Upright the machine and open its outer door firstly, and then wrench upward the buckle of base board until the base board detaches from the foot bracket. See the figure:



- (3) 向外用力取出踢脚板，如图：

Remove the base board with strong force. See the figure:



- (4) 一体式底座踢脚板拆装，将机器向后倾斜约 45 度，用十字螺丝刀拧下踢脚板与塑料底部连接螺钉，将机器放平把门打开约 30 度，用弯头十字螺丝刀拧下两颗螺钉，打开底部扣位向外用力拔出踢脚板，如图所示：

Disassembly and assembly of the base board of the integrated plastic bottom. Lean backward the machine about 45 degrees firstly, and then using a cross screwdriver to unscrew the connecting screws between the base board and the plastic bottom, and then lay the machine level and open the door about 30 degrees, and then unscrew the two screws with a cross screwdriver, and then loose the buckle in bottom, and then remove the base board with force. See the figure.

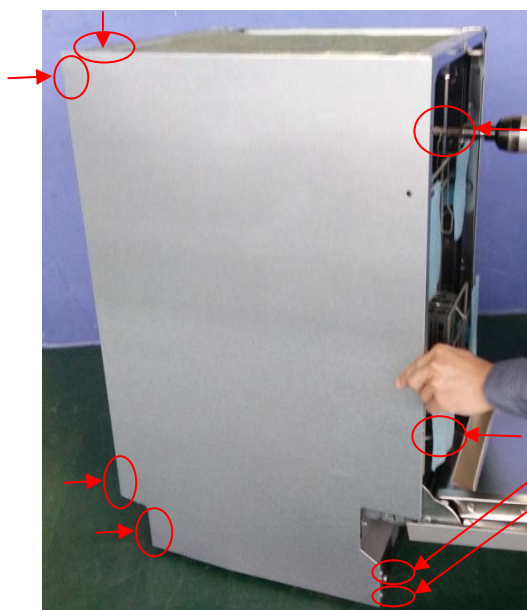


4.1.3 侧板拆装（以左侧板为例，右侧板操作相同）

Assembly and disassembly of side panel (taking the left panel as an example, it is also true for right panel)

(1) 独立式机型在拆侧板前，需先按照 4.1.1 步骤拆掉顶板，嵌入式可直接拆侧板；用十字螺丝刀拆掉侧板前部、后部、顶部共 8 颗螺钉（独立式机型 6 颗），螺钉位置如图：

Before disassembly the side panel of free-standing model, remove the top panel as procedure list in 4.1.1, but if the model semi or fully build-in, the top panel could be removed directly; And then unscrew the total 8 screws (6 screws for free-standing model) on the front, rear and top of the side panel with cross screwdriver. See the figure.



独立式机型此处为踢脚板，
嵌入式机型需拆掉这 2 颗螺钉
For free-standing model, here is the
base board. (There is no screws)
For a semi or fully built-in model, the 2
screws here need to be unscrewed.

(2) 侧板上的螺钉全部拆除完成后，稍用力将侧板向外取出（独立式机型需先向后将侧板与踢脚板分离，

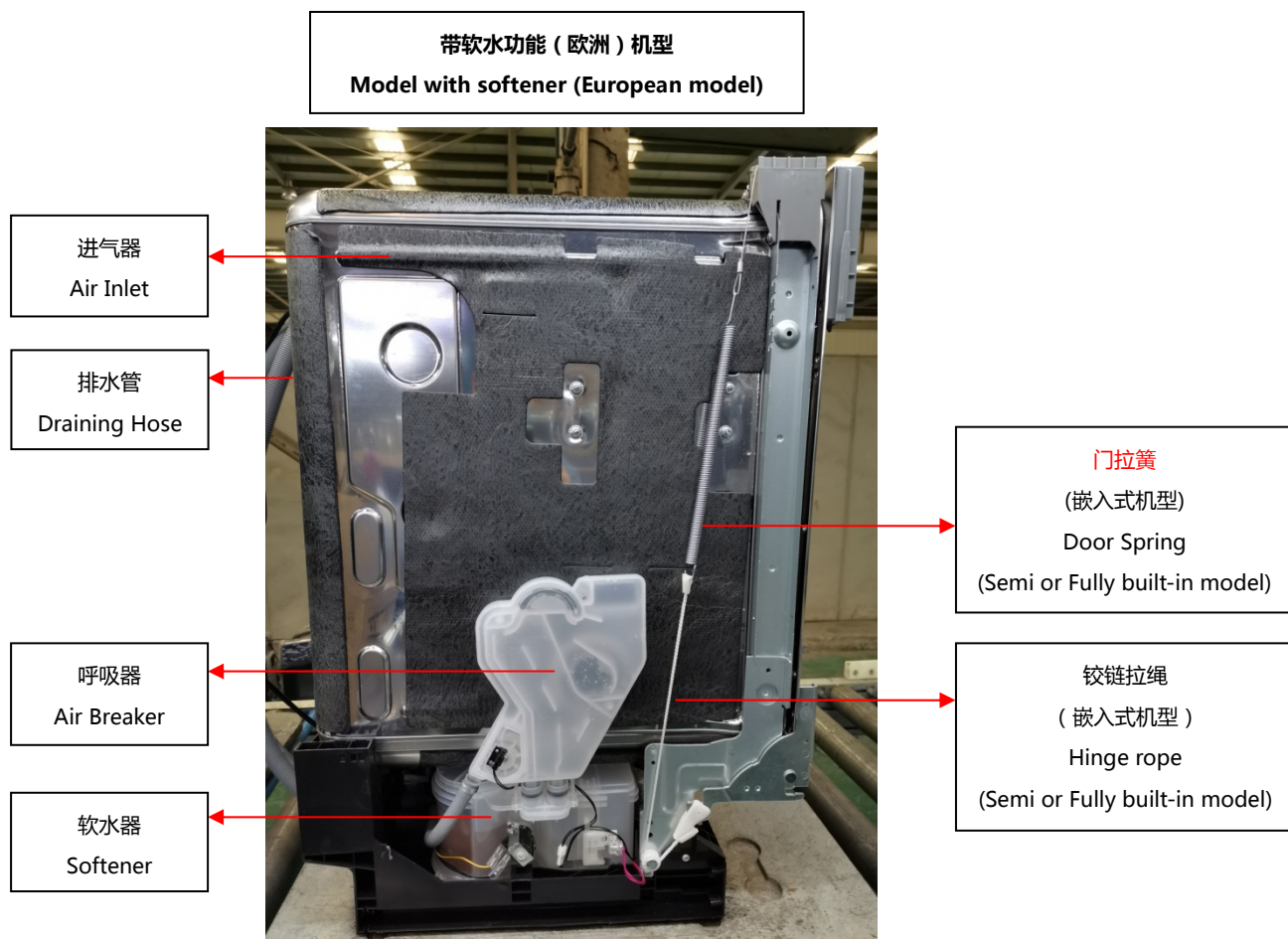
再向外取出侧板), 如图所示:

After finished unscrew all screws on the side panel, and then remove side panel. (For free-standing model, disconnecting the side panel and the base board firstly, and then remove the side panel). See the figure:

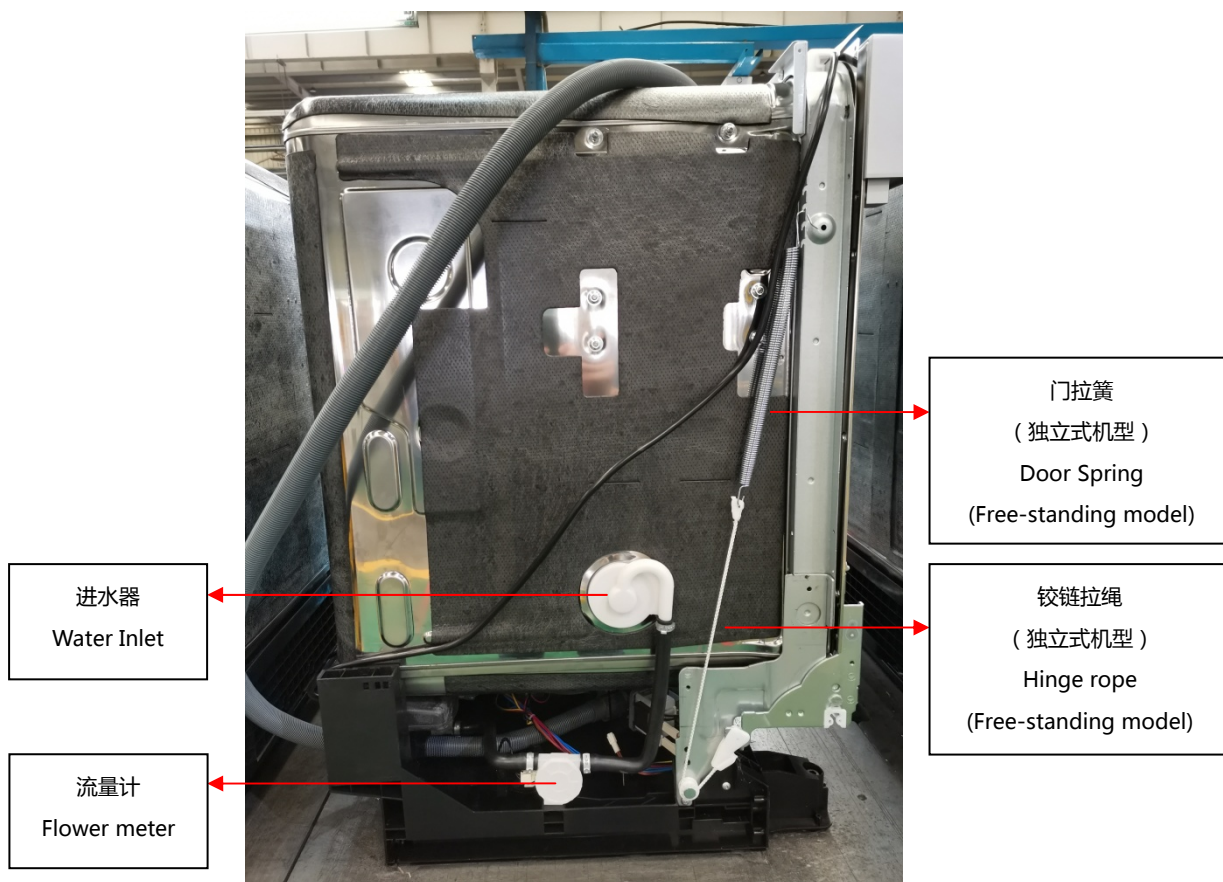


(2) 拆开左侧板如图所示：

Figure of disassembly the left panel:

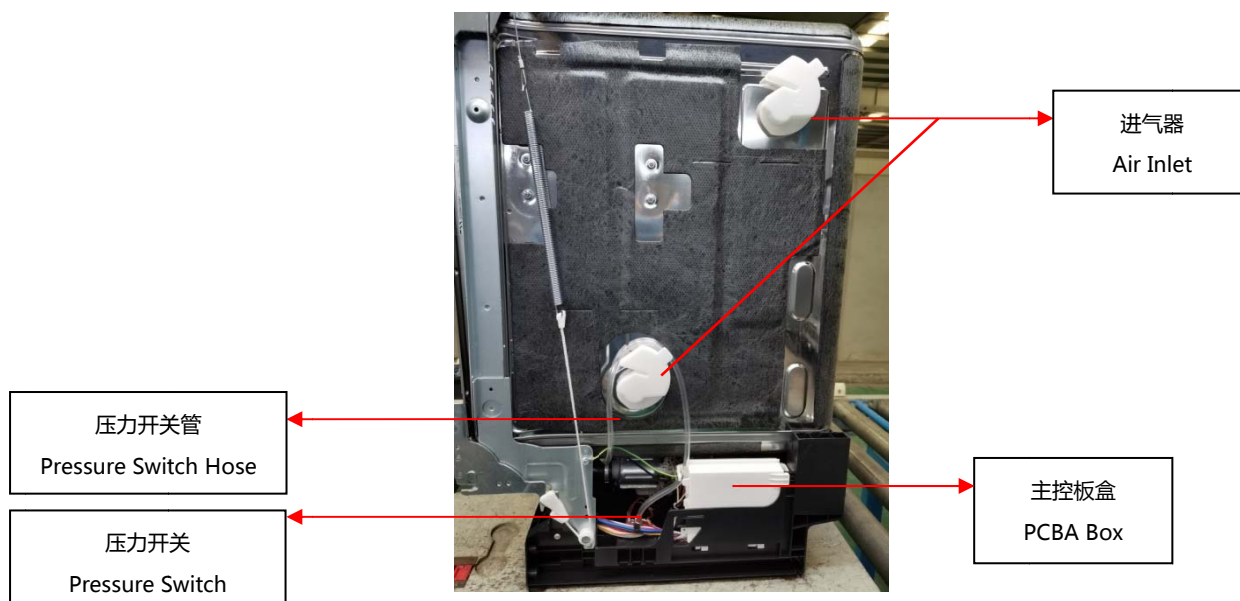


不带软水功能（澳洲）机型
Model without softener (Australian Model)



(5) 拆开右侧板如图所示：

Figure of disassembly the right panel:



4.1.4 外门拆装

Assembly and disassembly of external door

(1) 完全打开机器内门至水平位置 (嵌入式机型需先拆掉装饰外门), 用十字螺丝刀拧出连接内外门的 6 颗螺钉, 螺钉位置如图所示：

Opening machine' s inner door and keep it almost about 90 degrees (For semi or fully built-in model, the decorative external door needs to be disassembly firstly), and then unscrew the 6 screws, which used to fix the external door, with cross screwdriver. See the figure:



(2) 双手握住外门两侧，斜向下取下外门，方向如图所示：

Hold the both sides of external door with hands, and then remove the external door in a lean downward direction. See the figure:



(3) 拆下外门后，可见分配器，可进行检修和拆装。

The detergent dispenser can be seen after disassembly the external door. And it is workable to disassembly and maintenance the detergent dispenser.

4.1.5 控制面板拆装

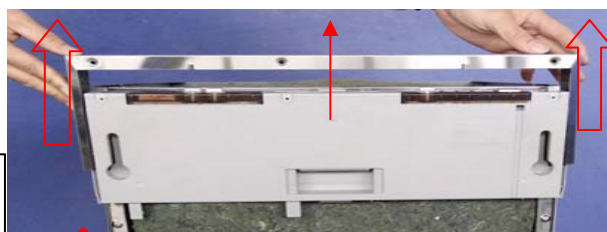
Assembly and disassembly of Control Panel

(1) 有面板贴片的机型需先按如下操作拆掉面板贴片，如图所示：

For model with control panel sticker, please remove the control panel sticker based the following processes firstly. See the figure:



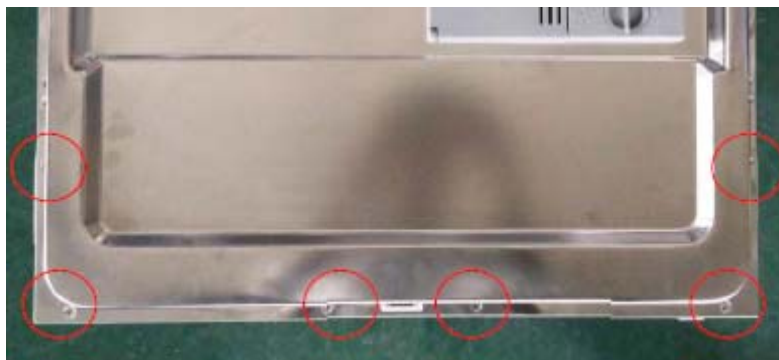
1. 拆掉固定面板贴片的3颗螺钉
Unscrewing the three screws used to fix the control panel sticker.



2. 双手握住面板贴片，向上提起，取下面板贴片和所有按键。
Hold the control panel sticker with hands and lift it up, and then remove it and all buttons on the control panel.

(2) 其它机型则打开机器内门放平，拆掉固定控制面板的 6 颗螺钉，螺钉位置如图：

For other model without control panel sticker, opening machine' s inner door and keep it almost about 90 degrees, and then unscrew the six screws, which used to fix control panel. See the figure:



(3) 取下控制面板，此位置有电源开关（部分机型没有）、显示板、门锁组件，可对其进行检修和更换。

After disassembly the control panel, Power Switch(some models without the switch)、Display PCBA、Door lock assembly could be seen. It is workable to maintenance and replace.

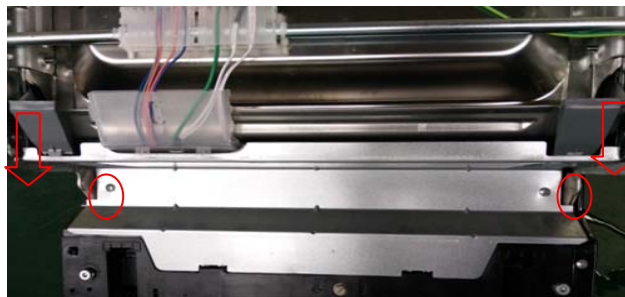
4.1.6 中前横档拆装

Assembly and disassembly of middle front crosspiece

(1) 按照 4.1.3 和 4.1.4 中步骤拆掉机器左右侧板和外门，独立式机型还需按照 4.1.2 中步骤拆掉踢脚板；
Disassembly the left and rightside panel and also the external door as procedures in 4.1.3 and 4.1.4. For Free-standing model, baseboard need be removed as per procedures in 4.1.2.

(2) 将机器稍微向后倾斜，用十字螺丝刀拧掉固定中前横档的 2 颗螺钉，再用力将中前横档向外取出，螺钉位置和用力方向如图所示：

Incline the machine back slightly, and unscrewing the 2 screws used to fix the middle front crosspiece with a cross screwdriver, and then remove the middle front crosspiece with strong force. See the figure:



4.2 底部件、内部件拆装

Assembly and disassembly of parts on the bottom and internal parts

4.2.1 底盘拆装

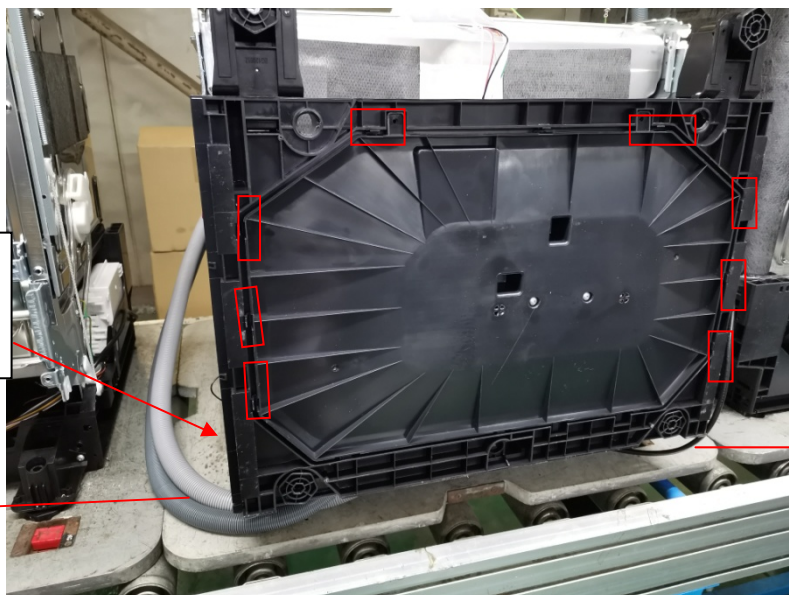
Assembly and disassembly of plastic bottom

(1) 准备一块平整的地方，将机器背面所有的杂物以及排水管、电源线、进水管等零部件清开，将机器平整放倒；

Arrange the draining hose, power wire, inlet hose and any other parts in the back side of machine in order, and then put down the machine in a flat and level place.

(2) 用平口螺丝刀依次撬开塑料底盘上的 8 个卡扣，卡扣位置如图所示：

Lever the 8 buckles of on the plastic bottom in turn with a slotted screwdriver. See the figure:



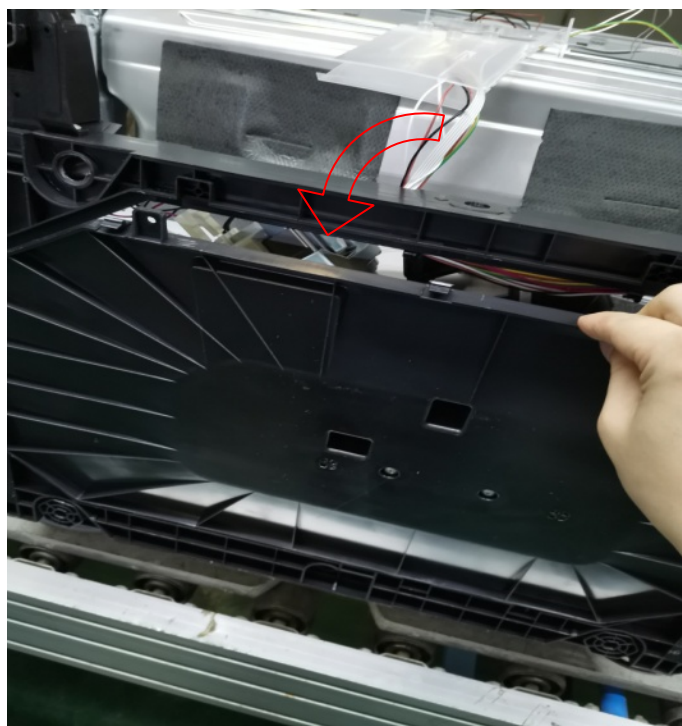
机器放倒地方必须平整无杂物
Make that the place must be flat and level and there are no sundries

水管必需绕开机器背部
The hose could not put on its back directly.

电源线必需绕开机器背部
The power cord could not put on its back directly.

(3) 拆掉底盘卡扣后，用力将底盘往外扳开，取下底盘，如图所示：

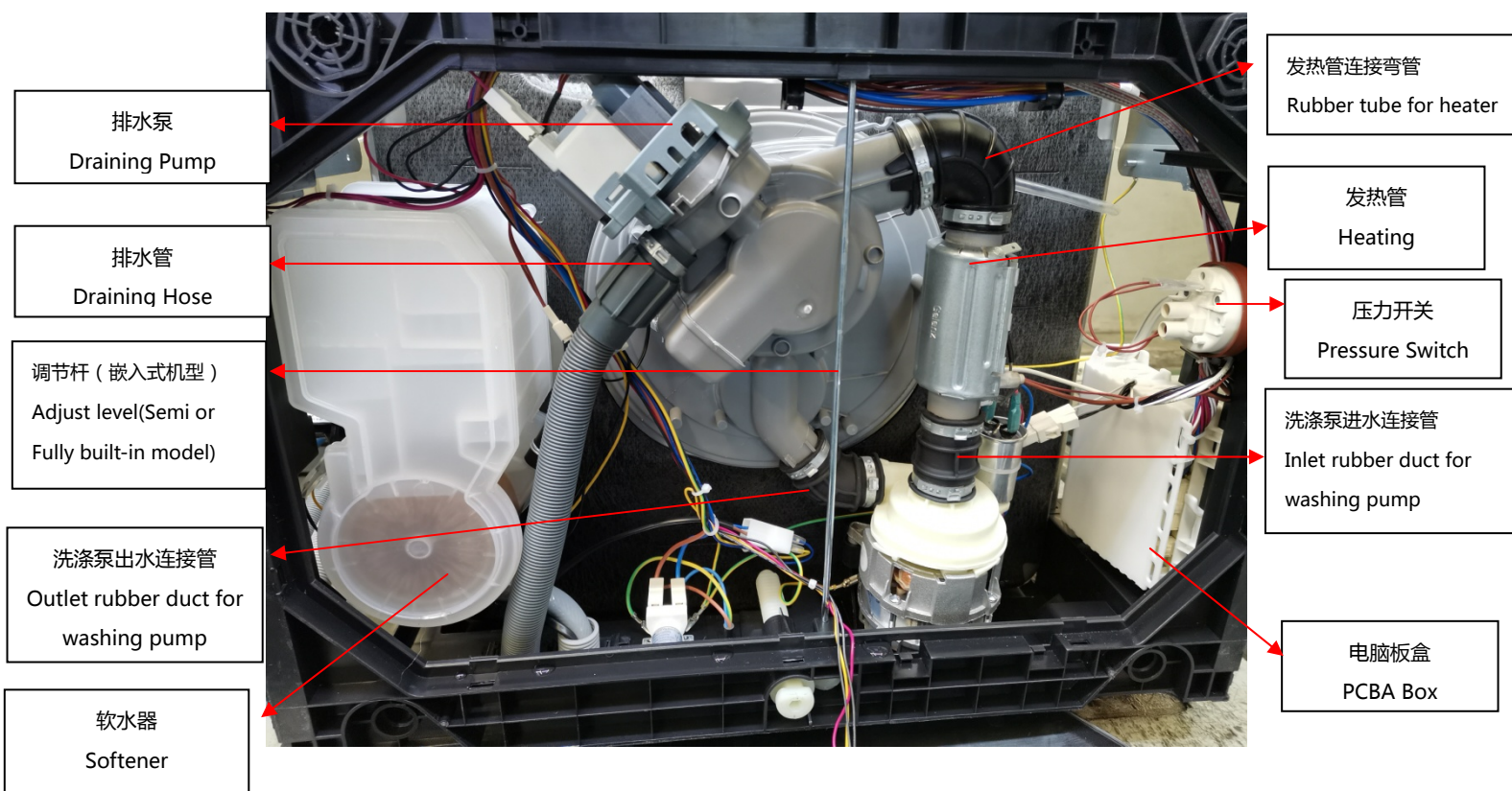
Pulling and removing the plastic bottom after levering the buckles on the plastic bottom. See the figure:



(4) 底盘拆开后，底部系统（仅以带软水功能机型示意）如图所示：

Refer to the figure to see the inside of plastic bottom.

(only taking the model with softener as an example)



4.2.2 进水阀（或电子式安全进水管）拆装

Assembly and disassembly of water inlet valve (or Aqua stop)

(1) 将机器正立放置，在机器背面，用平口螺丝刀插进水管卡座与底座之间的缝隙，向右撬开水管卡座，如图所示：

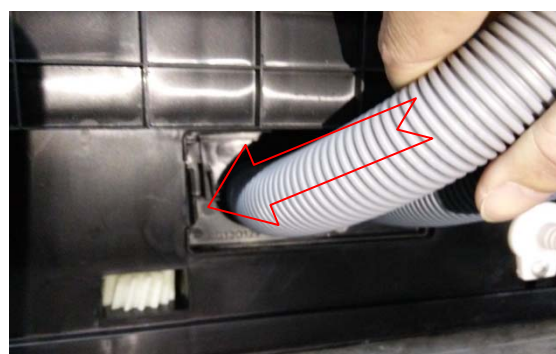
Upright the machine, and insert into the gap between pipe holder and plastic bottom with a slotted screwdriver at the back of machine, and then lever the pipe holder toward right.

See the figure:



(2) 用平口螺丝刀撬动水管卡座的同时，用力将进水阀（或电子式安全进水管）和排水管向内按压，使水管卡座上的卡扣脱离底座，如图所示：

Press the water inlet valve (or aqua stop) inwards during levering the water pipe holder, to loosen buckles on the pipe holder. See the figure:

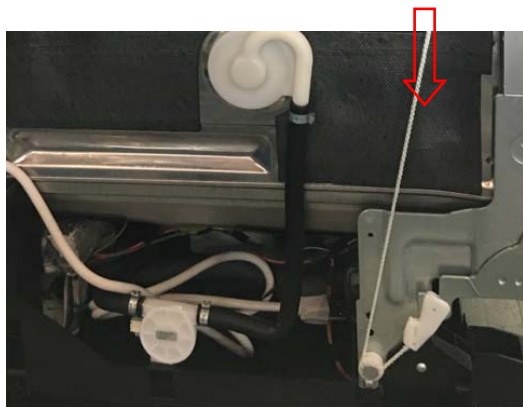


(3) 按照 4.1.3 中步骤拆掉左侧板；

Disassembly the left side panel as procedures in 4.1.3;

(4) 对于不带软水功能（澳洲）机型，用卡箍钳拆掉固定流量计进水管（或者电子式安全进水管）的卡箍，如图：

For the model without softener (Australian model), With clamp pliers to Loosen the clamp, which used to fix the inlet hose of flow meter (or aqua stop). See the figure:

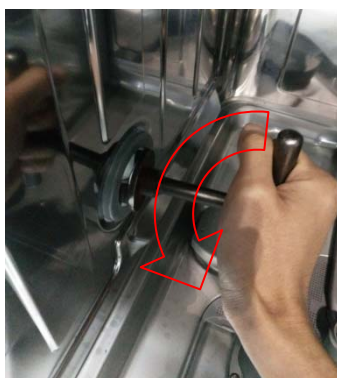


(5) 对于带软水功能（欧洲）机型，按照以下操作步骤拆下连接管：

For model with softener (European model), Remove the connecting hose based on the following procedures.

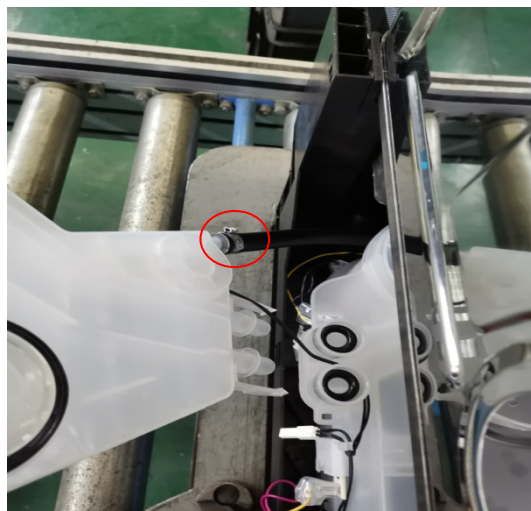
① 打开机器内门，用工具将呼吸器螺母逆时针方向拧下，如图：

Open the inner door, and then unscrew the air breaker nut in anticlockwise direction. See the figure:



② 拧下呼吸器螺母后，从软水器上取下呼吸器，再用卡箍钳剪断固定呼吸器进水管（或电子安全进水管）的卡箍，然后拔出呼吸器进水管（或电子式安全进水管），如图：

Removing the air breaker from the softener after unscrewing the air breaker nut, and then cut off the clamp used to fix the inlet hose for air breaker (or aqua stop) with clamp pliers. See the figure:



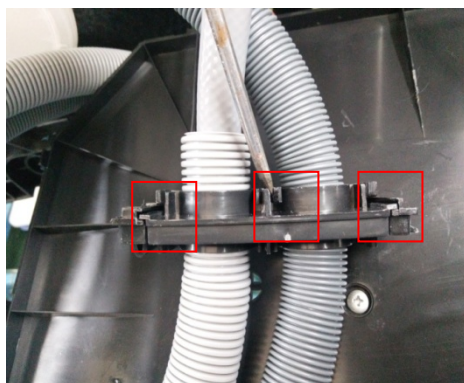
③ 拔掉进水阀（或电子式安全进水管）连接在线束上的线端子；

Unplug the wire terminal of water inlet valve (or aqua stop).



（6）拆掉连接管后，再从机器塑料底座后部取出水管卡座组件，拆开水管卡座与水管卡片之间的卡扣，将进水阀（或电子式安全进水管）取出，卡扣位置如图所示

Taking out the pipe holder assembly after removing connecting hose, and lever the buckle between pipe holder and pipe holder, and then take out water inlet valve (or aqua stop). See the figure for buckle:

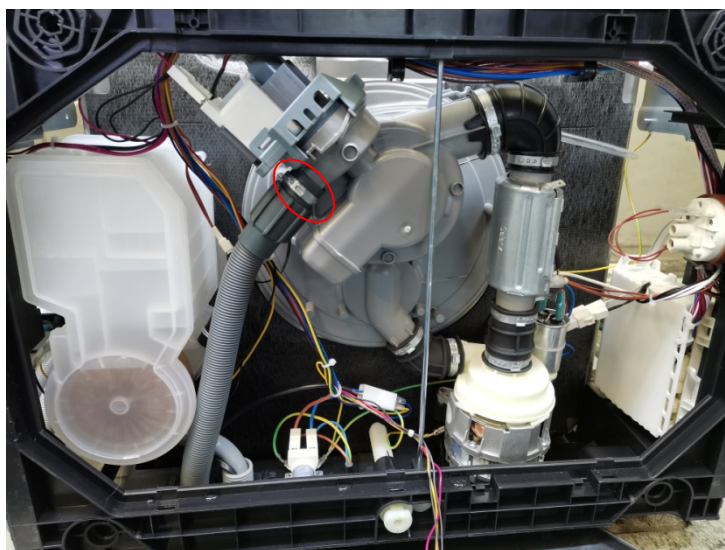


4.2.3 排水管拆装

Assembly and disassembly of Draining hose

(1) 将机器倾斜放置 (注意内胆防护, 不可使排水管、进水管、电源线等物压到内胆背面), 按照 4.2.1 中所示步骤拆开底盘, 再用卡箍钳拆掉紧固排水管的卡箍, 位置如图:

Put down the machine, (Pay attention to protect the tub and make sure that drain hose, water inlet hose, power line and anything else do not press the back of tub), and then open the bottom as procedures in 4.2.1, and then unscrew the clamp used to fix the draining hose with clamp pliers. See the figure:



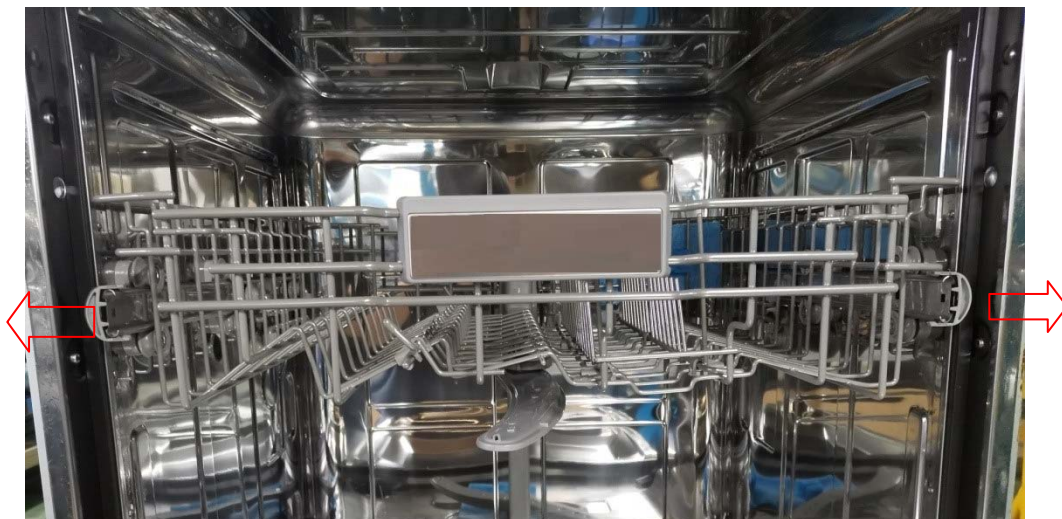
(2) 按照 4.2.2 中 (1)(2) 步骤拆掉水管卡片后, 即可拆下排水管, 此时可对排水管进行检修和更换。
The drain hose can be removed for inspection and replacement after removing the pipe holder as the (1) and (2) procedures in 4.2.2.

4.2.4 碗篮拆装

Assembly and disassembly the basket.

机器正立，打开机器内门，将导轨前挡块分别向左右转动，沿导轨拉出上碗篮，如图所示：

Upright the machine and open the door, and then move the front guide block to the right and the left, and then pull out the upper basket. See the figure:



For lower basket, if the basket is not limited, just pull it out directly. If the basket is limited, lift the basket a little bit up then pulls it out. See the figure:



4.2.5 内水管拆装

Assembly and disassembly of inner pipe

(1) 用平口螺丝刀插入内水管和固定片之间的缝隙，向外用力撬动，即可撬出内水管，再向上将内水管从过滤器支座中拔出，逆序操作可装回内水管，如图所示

Inserting into the gap between inner pipe and stator with a slotted screwdriver, lever outward with force, and thus the inner pipe will be taken out, and then pull it out along the filter support.

See the figure. Whilst it can be installed back as reversed operation.



4.2.6 过滤器支座拆装

Assembly and disassembly of filter support

按照 4.2.5 中步骤拆下内水管组件，用十字螺丝刀拧下两颗螺钉即可取下过滤器支座，如图：

Disassembly the inner pipe as procedures in 4.2.5, and then unscrew two screws with a cross screwdriver to take out the filter support. See the figure:



4.2.7 分水板拆装

Assembly and disassembly of water distribution piece.

用十字螺丝刀拧掉固定分水板的 4 颗螺钉，即可拆下分水板，4 颗螺钉位置如图所示：

With the cross screwdriver to unscrewing four screws, which used to fix water distribution piece. See the figure:



4.2.7 水槽拆装

Assembly and disassembly of sump

(1) 机器正立，按照 4.2.4-4.2.7 中步骤拆下内水管组件和分水板等内部件；

Upright the machine, and then remove inner pipe assembly and water distribution piece as procedures in 4.2.6 and 4.2.7;

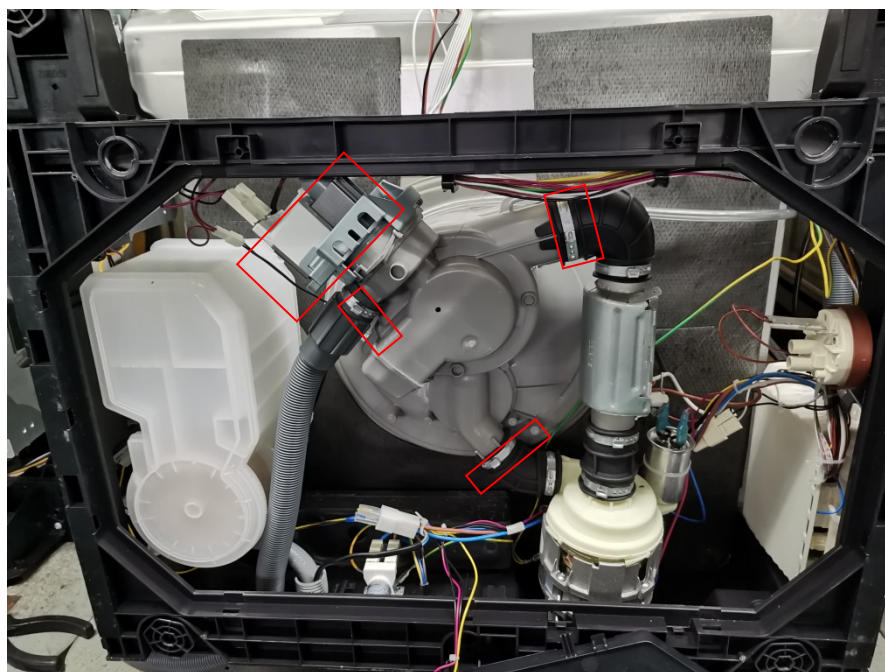
(2) 用十字螺丝刀拆掉固定水槽的 5 颗螺钉，螺钉位置如图所示：

With cross screwdriver to unscrew the three screws, which used to fix the sump. See the figure:



(3) 将机器放倒，按照 4.2.1 中步骤将机器塑料底盘拆开，拆下排水泵（详见后续 4.3.5 章节步骤）；用卡箍钳拆掉发热管连接弯管连接水槽的卡箍，拆掉排水管卡箍，拆掉洗涤泵出水管连接水槽的卡箍，如图所示：

Lay down the machine, open the plastic bottom as procedures in 4.2.1, and then disassembly the draining pump (see details in 4.3.5); With clamp pliers to unscrew the clamp, which connect sump and rubber tube for heater, and then unscrew the clamp of draining hose, and then unscrew the clamp, which connect sump and outlet rubber duct for washing pump. See the figure:



(4) 拆掉排水泵和排水管后，用钳子夹松压力开关管连接水槽的双线夹箍，拔下压力开关管；拔掉温度传感器线端子；用钳子夹松软水器出水管连接水槽的双线夹箍，拔掉软水器出水管；即可从空隙中取出水槽，

With clamp pliers to loosen the double-line clamps, which connect pressure switch hose and sump after disassembly the draining pump and draining hose. And pull out the pressure switch hose as well as the wire terminal of temperature sensor; And with clamp pliers to loosen the double-line clamps, which connect outlet hose of softener and sump. Pull out the outlet hose of softener. And take out the sump from the clearance.



4.3 重要元器件拆装

Assembly and disassembly of main components

4.3.1 温度传感器拆装

Assembly and disassembly of temperature sensor

(1) 按照 4.2.4 中步骤取出机器内部的所有餐具，取出上碗篮，拿出下碗篮，将正面朝上机器放倒，按照 4.2.1 中步骤拆下机器底盘；

Take out all tableware in the machine as procedures in 4.2.4, and then take out upper basket and lower basket. And then put it down with its appearance surface upward, and then disassembly its plastic bottom as procedures in 4.2.1;

(2) 用六角扳手拧掉固定温度传感器螺母，并将温度传感器接线端子从另一端拔出，即从水槽里面可取下温度传感器，螺母位置如图所示：

Unscrew the 2 screws used to fix the temperature sensor with cross screwdriver, and pull out the wire terminal of temperature sensor, and then take out the temperature sensor. See the figure:

拔出线端子
pull out the wire terminal



4.3.2 呼吸器拆装

Assembly and disassembly of air breaker

(1) 机器正立，按照 4.1.3 中步骤拆掉机器左侧板；

Upright the machine, and disassembly its left side panel as procedures in 4.1.3;

(2) 拆掉左侧板后，可将门拉簧取下减轻关门力，打开机器内门，用工装或工具拧掉呼吸器螺母，如图所示：

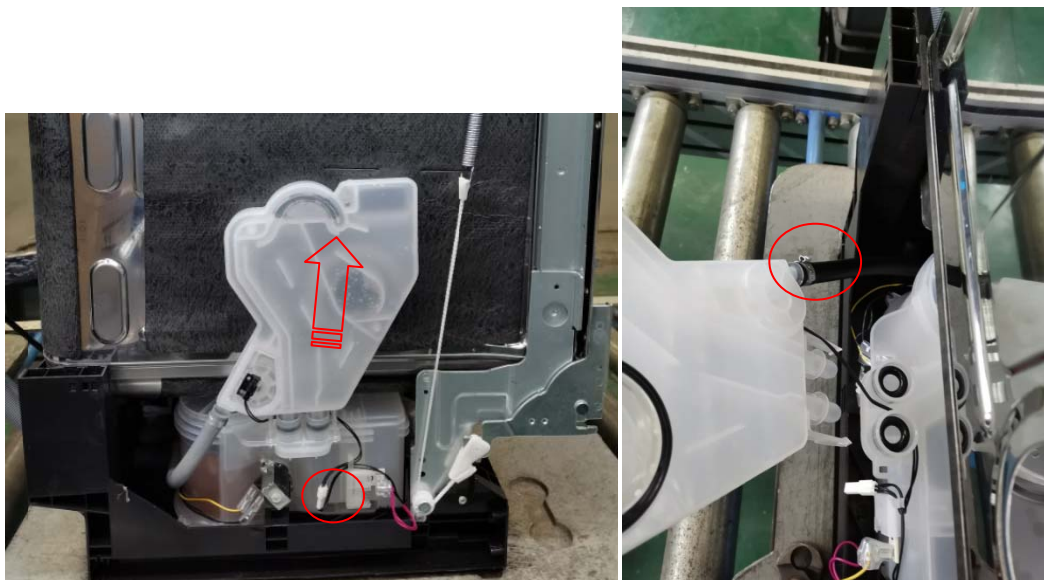
Remove the door spring so as to alleviate the force of closing-door, open its inner door after disassembly the left side panel, and open its door, and then unscrew the air breaker nut. See the figure:



(3) 在机器左面，拔掉流量计线端子，向上从软水器中拔出呼吸器，用卡箍钳剪断固定呼吸器进水管（或电子式安全进水管）的卡箍，即可拆下呼吸器，如图所示：

On the left side of the machine, pull out the wire terminals of flow meter, and then take out the

air breaker, and then unscrew the clamp used to fix the inlet hose of air breaker(or aqua stop) with clamp pliers, and then remove air breaker. See the figure:



(4) 部分机型(带防虹吸功能)还需用卡箍钳拆掉内排水管和排水管的卡箍,即可拆下呼吸器进行检修或更换。

For some model (with function of anti-siphon), it is still need to remove the clamps of inner draining hose and draining hose with clamp pliers, and then air breaker can be removed for maintenance or replacement.

4.3.3 软水器拆装

Assembly and disassembly of softener

(1) 机器正立,打开机器内门,按照 4.2.4 中步骤取出机器内部的所有餐具,取出上碗篮,拿出下碗篮,拧出软水器盖,用工装或工具将软水器螺母拧掉,如图所示:

Upright the machine, open its inner door, take out all tableware as per procedures in 4.2.4, and then take out upper basket and lower basket. And then unscrew the softener cap and its nut. See the figure:



(2) 按照 4.1.3 中步骤将机器左侧板拆下，在机器左侧面用钳子将软水器电磁阀和干簧管接线端子拔掉如图所示：
Disassembly the left side panel as per procedures in 4.1.3, and then pull out the softener valve and wire terminals of reed pipe with nipper pliers. See the figure:



(3) 按照 4.3.2 中步骤 (2) 拧掉呼吸器螺母，将呼吸器从软水器上拔出；如图所示：

Unscrew air breaker nut as procedures (2) in 4.3.2. And then take out the air breaker. See the figure:



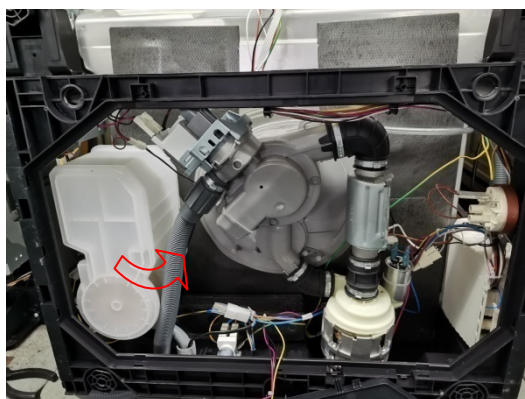
(4) 按照 4.1.6 中步骤拆掉中前横档，将机器倾倒，按照 4.2.1 中步骤拆掉底盘，用钳子将软水管的双线卡箍往里夹开，再拔出软水管，如图所示：从空隙中取出软水器，逆序操作可装回。

Remove the middle front crosspiece as per procedures in 4.1.6, and then lay down the machine, and then disassembly plastic bottom as per procedures in 4.2.1. And loosen the double-line clamps of softener hose with nipper pliers. And then take out the softener. Whilst it can be installed back as reversed operation.



(5) 从空隙中取出软水器，逆序操作可装回，如图所示：

Taking out the softener. Whilst it can be installed back as reversed operation. See the figure:



4.3.4 发热管拆装

Assembly and disassembly of heating

(1) 将机器正面朝上放倒，按照 4.2.1 中步骤拆下机器底盘；

Put down the machine, and then disassembly its bottom as per procedures in 4.2.1;

(2) 用卡箍钳拆掉固定排水管两端弯管的卡箍，即可取出发热管，按照逆序操作可装回发热管，如图所示：

Disassembly the clamp used to fix the rubber tubes of both ends of draining hose with clamp pliers, remove the heating. Whilst it can be installed back as reversed operation. See the figure:



4.3.5 排水泵拆装

Assembly and disassembly of draining pump

(1) 将机器正面朝上放倒，按照 4.2.1 中步骤拆下机器底盘；

Put down the machine, and then disassembly its bottom as per procedures in 4.2.1;

(2) 拆下底盘后，用钳子拔掉排水泵线端子，如图所示：

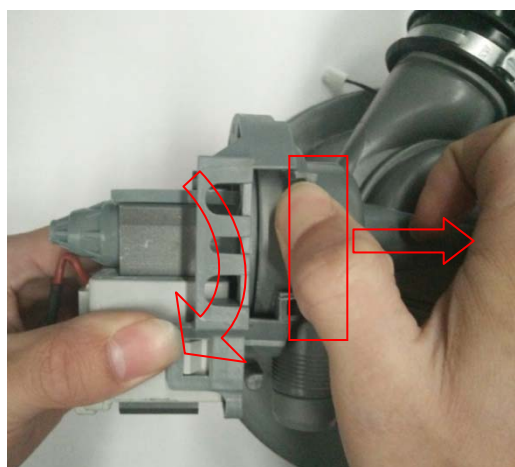
Pull out the wire terminals of draining pump with clamp pliers after disassembly the plastic

bottom. See the figure:



(3) 用左手握住排水泵，右手将水槽卡扣向外扳起，左手顺时针方向转动排水泵，即可将排水泵拆下，装回时需压住排水泵逆时针方向转动排水泵至扣位卡紧，如图所示：

Hold the draining pump with left hand, and pull the buckle of sump with right hand, and then rotate the draining pump in clockwise direction with left hand, and then draining pump can be removed. When it need be installed back, press the draining pump and rotate the draining pump in anti-clockwise direction until the buckle is clasped. See the figure:



4.3.6 进水器拆装 (不带软水功能机型)

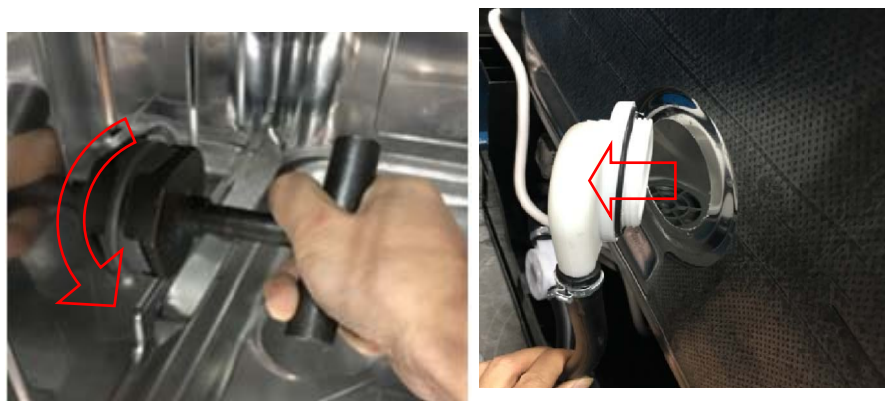
Assembly and disassembly of water inlet (model without softener)

(1) 按照 4.1.3 中步骤拆掉机器左侧板；

Disassembly the left panel as per procedures in 4.1.3

(2) 打开机器内门，用工装或工具逆时针拧掉进水器螺母；如图：

Open its inner door, and then unscrew water inlet nut in anticlockwise direction. See the figure.



4.3.7 主控板拆装

Assembly and disassembly of water inlet (model without softener)

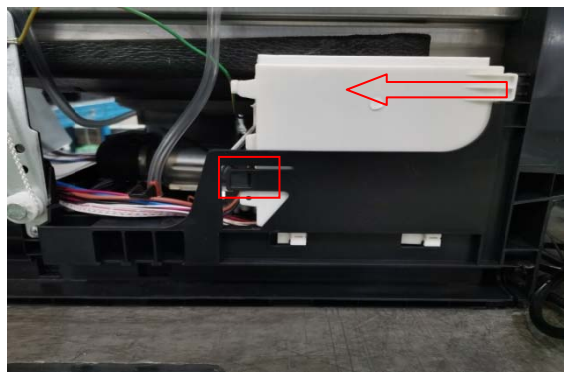
(1) 按照 1.1 中步骤拆掉右侧板；

Disassembly the right panel as per procedures in 1.1.

(2) 左手将卡住主控板盒的塑料卡扣向外顶起，右手同时将主控板盒向左推动，可取

出主控板盒，如图所示：

Lever the plastic buckle used to fix the PCBA box with left hand, and meanwhile, push the PCBA box towards the left with right hand, and then take it out. See the figure:

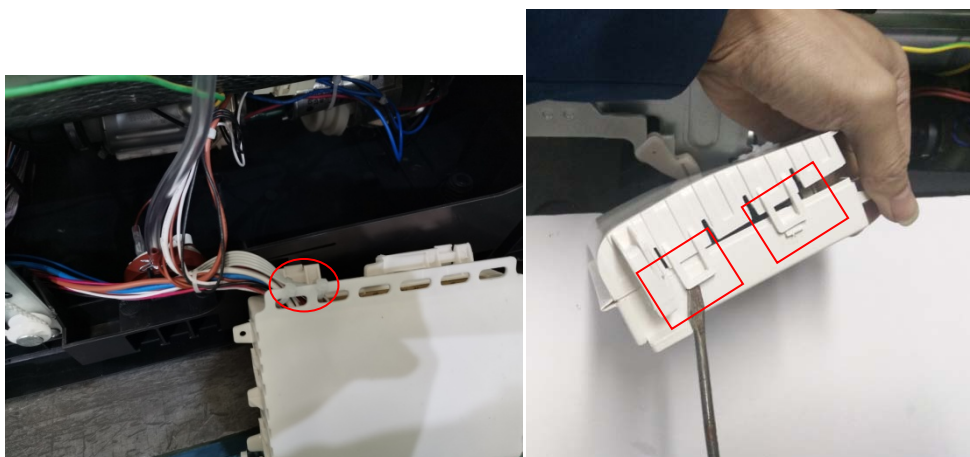


(3) 剪掉固定线束的扎带，用平口螺丝刀撬开主控板盒左右两侧卡扣，即可打开主控

板盒，取出主控板，可按照 2.1.4 中图示检查插线装态。

Cut down the cable used to fix PCBA box, and lever the buckle on the two sides of PCBA box.

And then open PCBA box and take out the Main PCBA. Checking connecting wire based figure in 2.1.4.



4.3.8 分水系统拆装

Assembly and disassembly of water distribution system

(1) 按照 4.2.4 中步骤取出机器内部的所有餐具，取出上碗篮，拿出下碗篮，将正面朝上机器放倒，按照 4.2.1 中步骤拆下机器底盘；

Take out all tableware as per procedures in 4.2.4, and take out the upper basket and lower basket. And laydown the machine, and then disassembly its plastic bottom as per procedures in 4.2.1;

(2) 底部可见分水系统，用十字螺丝刀可拧掉固定同步电机支座的螺钉，拆开按照下图检验其装配情况，如图：

Water distribution system can be seen on the plastic bottom. Unscrew the screws used to fix the synchronous machine support, and then open and check it. See the figure:



4.3.9 浊度传感器拆装

Assembly and disassembly of turbidity transducer

(1) 按照 4.2.4 中步骤取出机器内部的所有餐具，取出上碗篮，拿出下碗篮，将正面朝上机器放倒，按照 4.2.1 中步骤拆下机器底盘；

Take out all tableware in the machine as per procedures in 4.2.4, and take out the upper basket and lower basket. And lay down the machine, and then disassembly its plastic bottom as per procedures in 4.2.1;

(2) 底部可见浊度传感器，如图：

Turbidity transducer can be seen on the plastic bottom. See the figure:

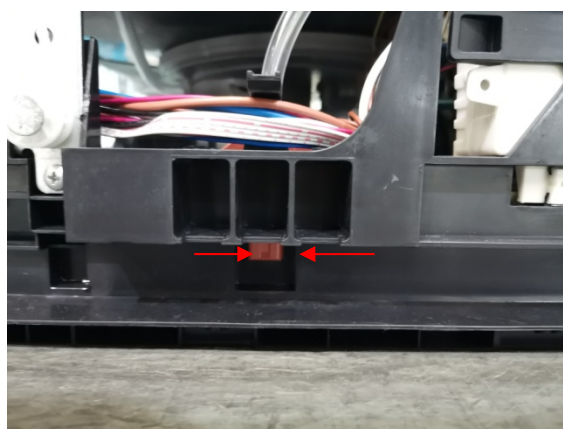


4.3.10 压力开关拆装

Assembly and disassembly of pressure switch

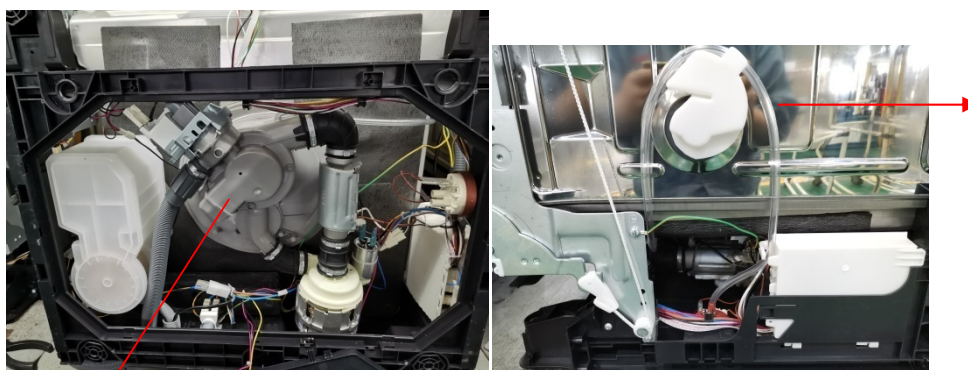
(1) 按照 4.1.3 中步骤拆下右侧板，可用尖嘴钳将压力开关扣位夹住，取下压力开关；

Disassembly the right panel as per procedures in 4.1.3, Pinch the buckle of pressure switch with nipper pliers and then remove the pressure switch;



(2) 按照 4.2.4 中步骤取出机器内部的所有餐具，取出上碗篮，拿出下碗篮，将正面朝上机器放倒，按照 4.2.1 中步骤拆下机器底盘；用尖嘴钳夹松压力开关管的夹箍，即可拆装压力开关（装回时注意压力开关管的环绕位置，需与拆下前一致），如图：

Take out all tableware in the machine as per procedures in 4.2.4, and take out the upper basket and lower basket. And lay down the machine, and then disassembly its plastic bottom as per procedures in 4.2.1; Loosen the clamp of pressure hose with nipper pliers, and then pressure switch can be assembled or disassembled (Pay attention to the pressure switch tube when reinstalling it, which must be the same as before disassembly). See the figure:



压力开关管一端用夹箍连接在水槽气室盖接口
A clamp is used to connect one end of pressure hose with the joint of air cap sump.

压力开关管需挂在进气器上
(带风机机型用扎带固定在冷凝通道上)
The pressure switch hose has to be hanged on the water inlet.
(Model with turbo fan drying, it will be fixed on the condensation channel with cable.

Sincere Forever

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<http://www.galanz.com>