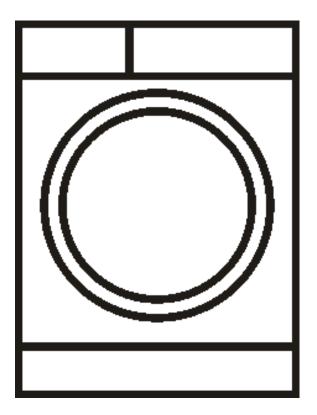


Washing Machine Model:C01

Service Manual



Note:

Before service the unit, please read this manual first. Contact with your service center if meet problem



Contents

1 PRECAUTION	3
1.1 Safety Precautions	
1.2 Servicing Precaution	
1.3 Cautions For Safety	
2 FACTORY PATTEN DETECTION	7
3 UNPACKING WAYS OF MAIN PARTS	11
4 MALFUNCTIONS CODES AND EXPLANATIONS	19
5 TROUBLESHOOTING	24
5.1 Maintenance non-heating malfunction	
5.2 Door non-locked & its maintenance	
5.3 Door non-locked & its maintenance	
5.4 Heating beyond the setting temperature its maintenance	
5.5 Maintenance of non-drain or drain exceed the setting time	
5.6 Water inlet overflow malfunction maintenance	
5.7 Drum non-rotating malfunction maintenance	
5.8 Maintenance water inlet and water outlet at the same time	
6 CHECK POINT OF CIRCUIT	34
7 SERVICE TOOLS	35
8 APPENDIX	36



When performing troubleshooting and part replacement during servicing, note the following safety precautions:

1.1 Safety Precautions

1.1.1 Use Genuine Parts

The components of the washing machine have safety features such as non-combustibility and voltage with standing. Therefore, always use the same part as suggested by the maker. In particular be sure

to use only designated parts in case of major safety parts identified by the marker. 1.1.2 Grounding

Connect the grounding wire to the shell plate ,and bury it under at least 25cm of earth: alternatively, connect the ground wire to the appropriate pin on a properly grounded power receptacle. Never connect the wire to a telephone line, lightning rod, or gas pipe.

1.2 Servicing Precautions

1.2.10bserve Warnings

Be sure to follow special warning and precautions that are described on part labels and in the owner'

manual.

1.2.2 Parts Assembly and Wiring

Be sure to use insulation material(such as tube and tape). And be sure to restore all parts and wires to their original position. Take special care to avoid contact with sharp edges. 1.2.3 Perform Safety Checks after Servicing

After servicing, check to see that the screws, parts, and wiring are restored to their original positions, and check the insulation between the external metals and the socket plug. In addition, place the washing machine in a level position (less than1 degree)to prevent vibration and noise during operations.

1.2.4 Insulation Checks

Pull out the plug from the power receptacle, pour water into the spin tub, and then set the timer.

Check to see that the resistance insulation between the terminals of the plug and the externally

exposed metal is greater than 1M.

Note :When it is impossible to insulation check with a 500V insulation resistance tester, use other testers for inspection.



1.3 CAUTIONS FOR SAFETY

- Please observe the following notes for safety. The symbols indicate as follows. •
- •

Symbol	Meaning	
	Indicates possibility of death or serious injury of a repair technician and a person nearby through the misconducted work , or of a user by a defect of the product after the work performed by the technician.	
	Indicates possibility of injury or physical damages* of a repair technician and a person nearby through the misconducted work , or of a user by a defect of the product after the work performed by the technician.	

* Means secondary damages of property, furniture , domestic animal and pet.

Symbol	Meaning	
ELECTRIC SHOCK Indicates a caution (including a warning). Specific instruction is followed by a graphic or chor near. Symbol left warns an electric shock.		
DO NOT DISASSEMBLE	Indicates prohibition (act must not be conducted). Specific instruction is followed by a graphic or characters in or near. DO NOT Symbol left warns not to disassemble.	
Indicates forcing (act must be conducted).Specific instruction is followed by a graphic or chard or near .UNPLUGSymbol left warns to unplug the power cord.		

Symbol	Meaning	
OUT OF CHILD	Advise the customer to keep children out of the work place. Children may be injured with a tool or a disassembled part.	
UNPLUG POWER	Unplug power cord for the work such as disassembling which is not unnecessary to power on . Do not hold the plug by a wet hand. Failing to unplug may cause an electric shock.	
USE REPAIR PARTS	Use the specified repair parts when repairing the product. Otherwise , amalfunction or a defect may occur. Also , a short circuit , ignition or other danger to the customer may occur.	



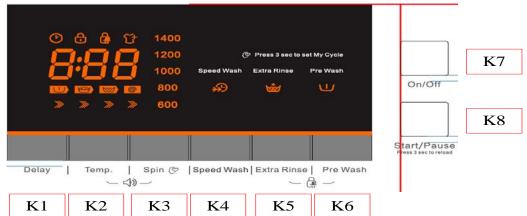
WARNING			
CHECK INSULATION RESISTANCE	After repair, measure insulation resistance between the charging part(power cord plug) and the non-charging metallic part (ground) with an insulation resistance meter (500V).The resistance shall be 10M or more. Failing to check the insulation resistance may cause a short circuit, electric shock or other diseases to the customer.		
DO NOT MODIF	Do not modify the product. An electric shock or ignition may occur.		
	Only a repair technician can disassemble and repair. An electric shock, ignition or malfunction may cause injury.		
USE EXCLUSIVE SOCKET	Use an exclusive 110 VAC/15 A socket for the washing machine. Use an exclusive 220VAC/17A socket for the washing machine. Otherwise , an electric shock or ignition may cause. Sharing the same socket with other instrument causes heating of a branch socket and result in a fire.		
CONNECT GROUNDING WIRE	Connect the grounding wire. Failing to do so may cause an electric shock when a short circuit occurs. Consult an electric work shop or a sales shop.		
DO NOT USE WET PLACE	Do not install in a bath room or a place exposed to wind or rain. An electric shock or a short circuit may cause a fire.		
DO NOT SPLASH WATER	Do not pour or immerse electrical parts into water or liquid solution. An electric shock or ignition may occur.		
REMOVE DUST	Wipe off dust adhered to the plug of power cord. Dust may cause a fire.		
AVOID INFLAMMABLE	Do not put inflammable into the washing tub. Do not put cloths stained with kerosene, gasoline, benzene, thinner, alcohol, etc. It may cause a fire or explosion.		



WARNING		
DO NOT TOUCH	Do not touch the laundry before the spin basket stops completely. The laundry entangles your hand causing an injury even if the basket rotates slowly. Pay special attention to children.	
INSTALL CAREFULLY	Ask an electric work shop to install the product. Install the product securely and safely according to the electrical equipment technical standard and the wiring standard. Incorrect work causes an electric shock and a fire.	
DO NOT PULL	Do not pull the power cord when unplugging. Hold the power plug to unplug. An electric shock or short circuit may cause a fire.	
DANGER HAND	Do not insert your hand under the washing machine durin operation. There is a rotary part under the machine which may cause an injury.	
Q WATER LEAKAGE	Before starting washing, open the faucet and check water supply hose joint which shall not be loosened for no water leaks. The loose screw or hose joint may cause water leakage resulting in an unexpected damage.	



2.1 Service mode



Before entering into service mode, make sure no water remains in the inner drum, if not, select drain only program to drain them out.

Turn on the machine and take turns [K3] [K5] [K3] [K5] buttons in 30s. Press [K1] or [K2] to select test program. Press [K8] button to confirm your selection and start the selected test. If you want to go back to test selection interface, press the [K8] button to cancel previous selection.

LED Display	Check Target	Check Method	Check Item
t01	Version switchover	 Press [K8] button Press [K2] to confirm switchover Press [K3] to change version Press [K2] button continuously for 3s to confirm your change 	LED displays "0xx" x means current version
t02	Error code checking	 Press [K8] button Press [K1] to show the last code and press [K2] to show the next code Press [K2] and [K3] button at the same time continuously for 3s, after hearing the beep, all the error codes records deleted, LED displays E00. 	LED displays "Err"
t03	Version	 Press [K8] button Enter into service mode, LED displays "cod". Press [K8], LED displays project number. Press [K1] button, LED displays version number 	LED displays version number

2 FACTORY PATTEN DETECTION



2.1 Service mode

LED Display	Check Target	Check Method	Check Item
t04	UI Checking	Press [K8] button	The whole LED display flashes
t05	checking	Press [K8] button to drain out all the remaining water. If all water drained out, LED displays "EP" , and 6 minutes later ,if there is still water remains in it, LED displays "FP"	LED displays "PPt'
t06	Pressure switch checking	 Press [K8] button to activate inlet valve. LED displays level frequency once water lever get the main wash level. 	LED displays LL
t07	heater	Then turn on the heater and \mathbf{F} mine later turned	LED displays the current temperature
t08	Inlet valve checking	 Press [K8] button, LED displays "uu" and switch on the main wash inlet valve for 10 min. Press [K1] button, LED displays "u1" and switch on prewash valve for 5s. Press [K1] button, LED displays "u2" and switch on the main wash inlet valve for 5s. Press [K1] button to switch on main wash and prewash valve and get the water lever to setting level, then drain out the water. 	LED displays "UU"



2.1 Service mode

LED Display	Check Target	Check Method	Check Item
TIM	checking	Press [K8] button, inner drum rotates in 45r/m clockwise for 15s and stop for 10s then rotates counterclockwise for 15s, over and over again.	LED displays "tUB"
	checking	Press [K8] button , the number on the display goes up in the same pace with the real speed and when it reach 400rpm, you need to press [K1] button to get the machine to reach its target speed	LED displays "spn



2.2 Self-check

Push the buttons of function and pre-washing without loosening, in the meantime screw the program knob to the position of cotton and keep 3s, then the program will be in the state of self test. When the buzzer toots, all the indicating lights glitter 3 times (pushing 0.5s, the 0.5s light is on and off), then the lights are on all the time. When the knob screw to the following position in this time and push the button of start/off, the test is effective.

1. Delay washing test (cotton normal water): the maximum inlet water time is 10s.

2. Main washing test(cotton 40°C): the maximum inlet water time is 10s.

3. Washing test (cotton 60°C): the maximum inlet water time is 10s.

4.Heating test(cotton 90°C): estimate whether the water level is 1, if not, adding water to 1, then begin to heat in the maximum of 10 minutes.

5.Tub leaking test (speedy washing 30°C): estimate whether the water level is 1, if not, adding water to 1, according to cycle of clockwise 10s-stop 2s-anticlockwise 10s to test in the rotate speed of 250rpm (fault alarm E6/E7).

6. Drain test (single drain): if the water level is below 1, it is plus 40s (malfunction alarm E3).

7. Dehydration (single dehydration): judge whether the water level is below 1, if not,

drain water until it is below the 1 plus 20s, then dehydrate in the maximum of speed (unbalanced test is needless), the maximum time is 10 minutes(fault alarm E5). NOTE:

1) The tests foregoing are reversible.

2) It is need to close the door lock before each test , or else the door clock is malfunction alarm E1.

3) The knob can be screwed to every position, the corresponding test is valid once pushing the start/pause button.

4) If the knob is not in the position of that test, there is not responsive. Exit need to close the power.

2.3 Marketing-show (no-water testing)

Target: in order to display the washer' s operation in the supermarket, set up display mode.

Operation program: push the function + pre-washing button and screw the knob to 40°C, keeping 3 minutes, when the buzzer toot, it enter the sales display mode. In the mode, the washer without and the heater without power, run the two minutes standard cotton washing + washing program and three minutes dehydration program after pushing the start/pause button, then stop, if you push the start/pause button again, the operation repeat.

Exit need to cut off the power.



- 1. Undo the back cover
- 2. Undo top cover
- Undo the control panel
 Undo the lower panel
 Undo the door lock

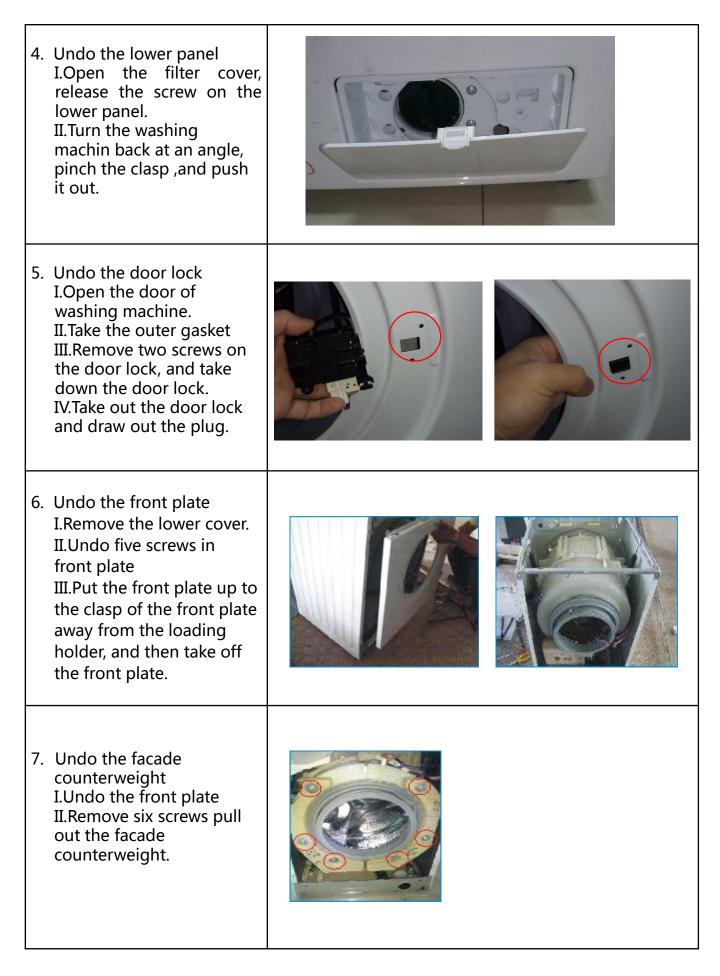
- 6. Undo the front plate
- 7. Undo the facade counterweight

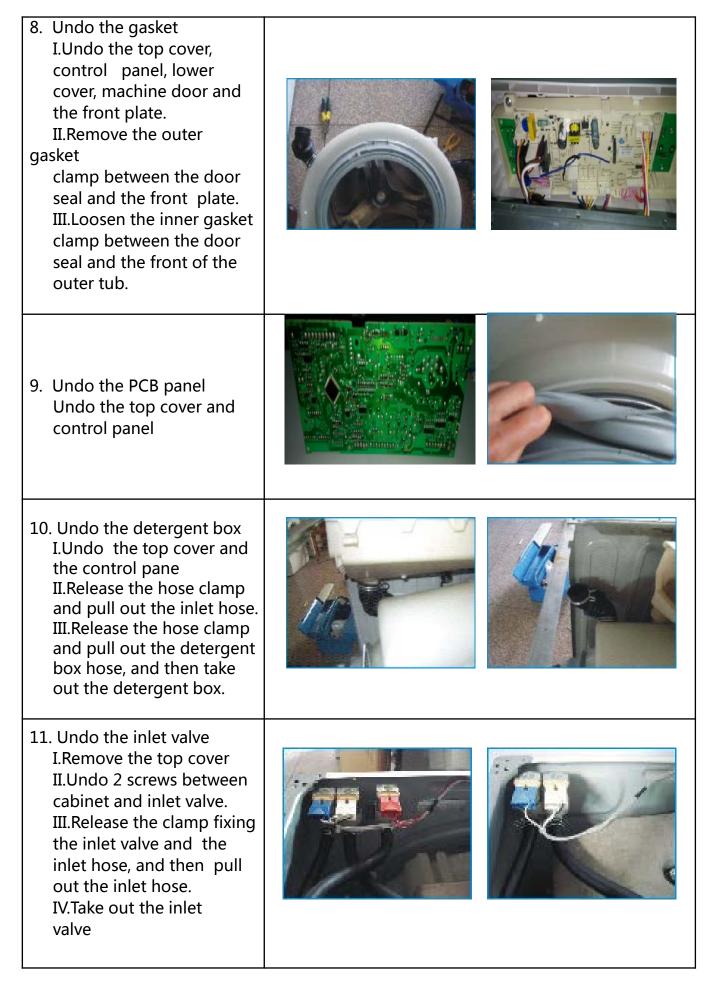
- 8. Undo the gasket9. Undo the PCB panel10. Undo the detergent box
- 11. Undo the inlet valve
- 12. Undo the pressure
- 13. Undo the pulley
- 14. Undo the absorber pin
- 15. Undo the filter
- 16. Undo the drain pump
- 17. Undo the heater
- 18. Undo the NTC
- 19. Undo the door glass
- 20. Undo the panel support
- 21. Undo the drum tub assembly
- 22. Undo the absorber
- 23. Undo the motor



Operation	Picture
 Undo the back cover Undo four screws fit between back plate and cabinet, and then pull out. 	
 Undo the top cover I.Undo 2 screws fit back Cabinet. II.Push back the top cover 15mm until it leaves away from the control panel, and then take it down. 	
 Undo the control panel I.Departing the top cover II.Draw out the detergent drawer. III.Loosen two screws fit on the control panel. IV.Loosen two screws fit on the control panel. V.Take out the control Panel inclined from the panel. 	<image/>



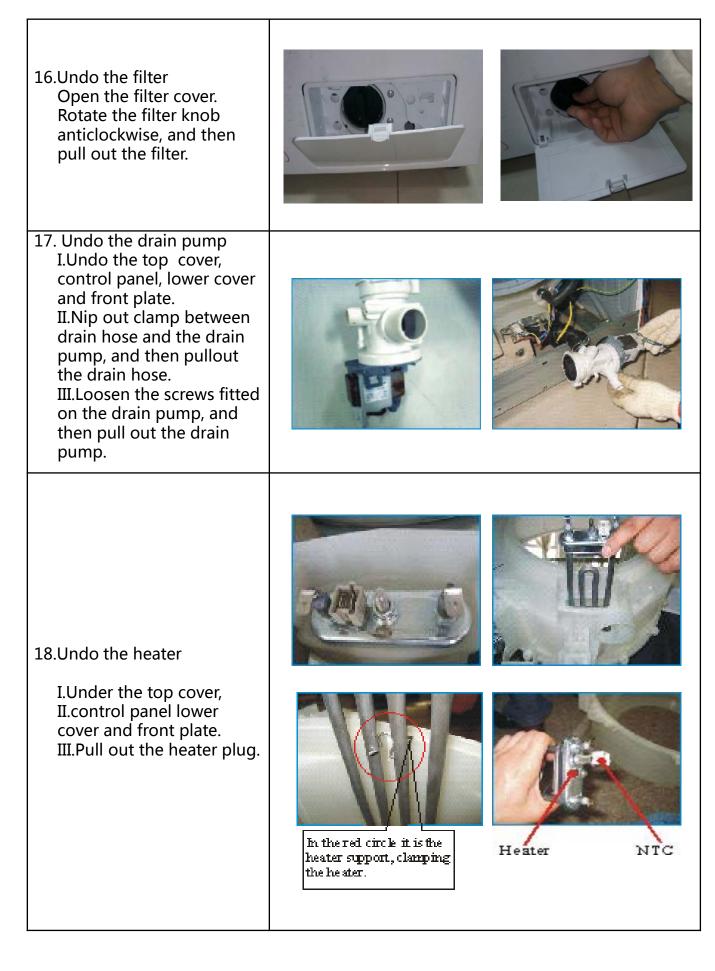




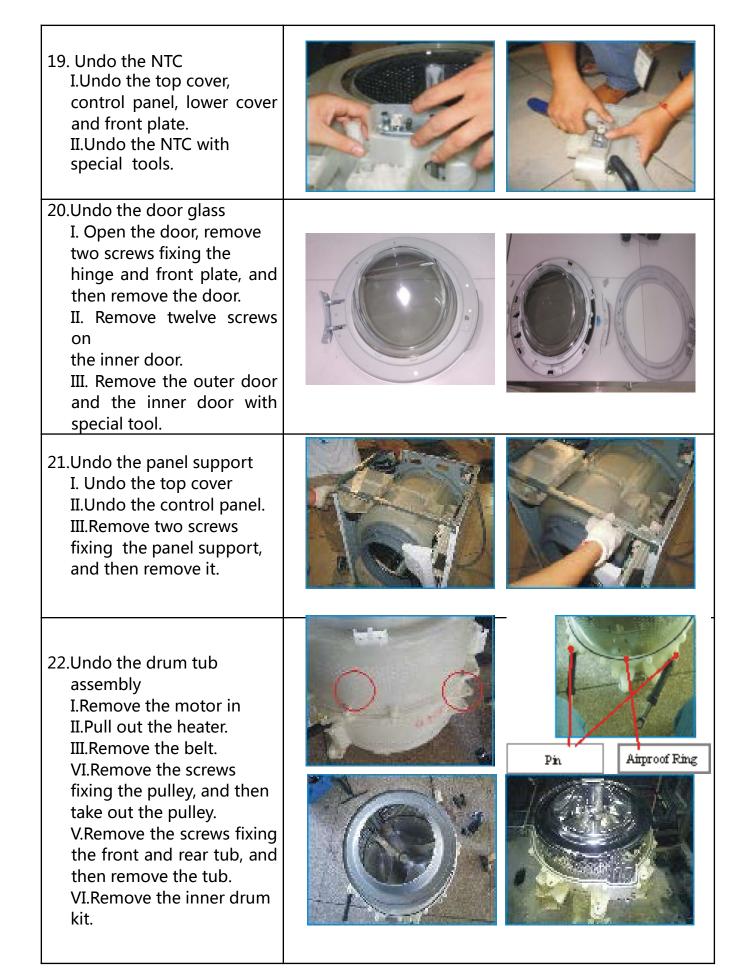


 12. Undo the pressure switch I.Undo the top cover II.Pull out the plugs on the pressure switch. II.Loosen the pressure switch hose clamp, and pull out the hose from the pressure switch interface. III.Rotate the pressure switch anticlockwise by 90°, and then pull out the pressure switch. 	
13.Undo the pulleyI.Undo the back coverII.Rotate the pulley and at the same time pull out the belt.II.Remove the screw on the pulley and then take down the pulley.	
14.Undo the upper counterweight I. Undo the top cover II. Remove three screws fit on the upper counterweight and then pull out the upper counterweight.	A LANCE AND A LANC
15. Undo the absorber pin I.Undo the front plate II.Use pliers to pinch the absorber pin's protuberance, and knock the absorber pin out from back lightly; in the same way, remove the other one.	











23.Undo the absorber I.Lift out the outer tub kit. II.Undo the absorber pin between absorber and rear tub, remove the absorber. 24.Undo the motor I.First let the machine lie down on the back and then pullout the motor wire and grounding wire. II.Use spanner to remove the motor screw, and lift up the motor with the other hand in case of falling to the drain pump III.After two screws are removed, change the motor. First support it to clasp the correct position, then install the screws.

Error Code	Unit Action	Causes	Explanation
	Unit will close valve and stop with Error code display	Low Water Pressure from House Supply	If the washer fills very slowly, the water pressure from the house might be too low. If the water inlet valve isn't leaking and there are no other symptoms this problem does not need to be corrected.
		Water inlet hose	Make sure that water faucet is turned on and that the screens on the hoses are not restricted.
water level doesn't change		Water inlet valve (The voltage on the water inlet valve is normal)	If the water pressure is good, try cleaning the screens inside the water inlet valve hose connection ports. If those are clean replace the water inlet valve.
		Water level sensor or control switch (No voltage on the water inlet valve)	A water lever control switch controls how much water enters the washing machine by PCB. If the water level control switch is defective, or more commonly, if the small air pipe attached to the air bell restricted, The switch will not be able to close the electrical contacts to the washer fill valve. CHECK THE AIR PIPE CHECK THE WATER LEVERL SENSOR CHECK THE PCB and the inner wire between PCB and the sensor

Гилои	11		
Error Code	Unit Action	Causes	Explanation
	Unit will close valve and stop with Error code display	Restart	Some time just restart the unit can solve the problem.
		Water inlet valve (The voltage on the water inlet valve is normal)	If the washer is overflowing, the water inlet valve has failed. Replace it.
E12 Overflowing.		Water level sensor or control switch (No voltage on the water inlet valve)	A water lever control switch controls how much water enters the washing machine by PCB. If the water level control switch is defective, or more commonly, if the small air pipe attached to the air bell restricted, The switch will not be able to close the electrical contacts to the washer fill valve. CHECK THE AIR PIPE CHECK THE WATER LEVERL SENSOR CHECK THE PCB and the inner wire between PCB and the sensor

Error	Unit	Causes	Explanation
Code	Action	Causes	
E20 Pump open circuit	Unit will close valve and stop with Error code display	Pump	Check the pump or the and the inner wire of the pump
E21 Washer Won't Drain. Or drain timeout	Unit will close Pump and stop with Error code display	Drain Hose	If the washer won't drain water check the drain hose. Be sure the hose did not get kinked behind the washer. Also, remove the hose from the pump and check it for obstructions.
		Pump	If the washer won't drain water the drain pump might be defective. It's also common for a small sock or other article of clothing to get caught in the drain pump or in the drain hose. Check both for an obstruction before replacing the pump.
		РСВ	Check PCB

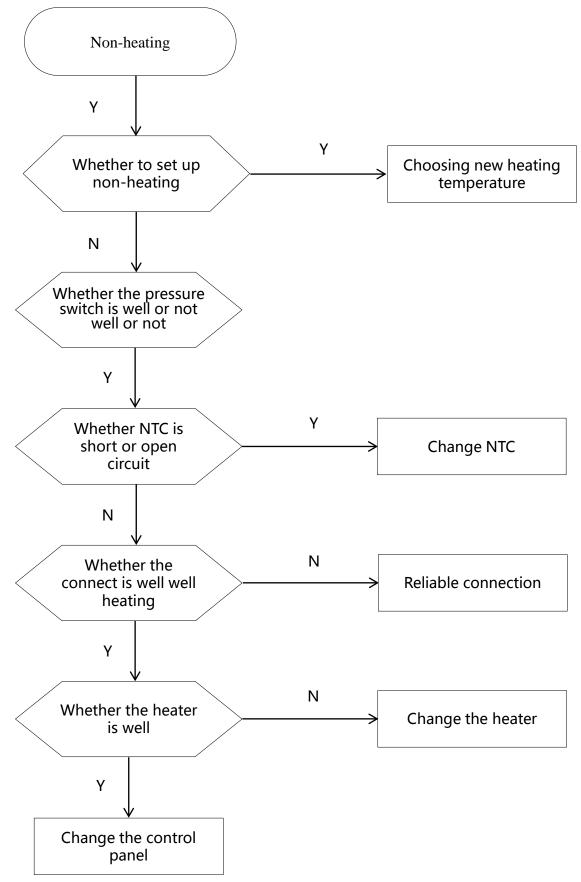
E30 Washer Door Won't Lock Try 6 times , not lock Door Lock If the door won 't latch, the door lock assembly might be defective. If the door won' t latch , check the door to see if the door is closed before replace it. F0 Try 6 times , not lock PCB If the washer door won 't unlock the problem might be the main control board. This is not common. Check the inner wire between the PCB and the door lock. . E31 Washer Door Won't unlock Door Lock If the door won ' unlock, the door lock assembly might be defective. If the door won' t latch , check the door lock assembly might be defective. If the door won' t latch , check the door to see if the door is closed before replace it. E31 Washer Door Won't unlock PCB If the washer door won't unlock the problem might be the main control board. This is not common. Check the inner wire between the PCB and the door lock.	Error Code	Unit Action	Causes	Explanation
Washer Door lock Won't Lock PCB If the washer door won 't unlock the problem might be the main control board. This is not common. Check the inner wire between the PCB and the door lock If the door won ' unlock, the door lock assembly might be defective. If the door won' t latch ,check the door to see if the door is closed before replace it. E31 Washer Door Won't unlock PCB If the washer door won't unlock the problem might be the main control board. This is not common. Check the inner wire the door is closed before replace it.	Washer Door	Try 6 times , not	Door Lock	assembly might be defective. If the door won't latch, check the door to see if the
E31 Washer Door Won't unlockDoor Lockassembly might be defective. If the door won't latch ,check the door to see if the door is closed before replace it.E31 Washer Door Won't unlockIf the washer door won't unlock the problem might be the main control board. This is not common. Check the inner wire			РСВ	problem might be the main control board. This is not common. Check the inner wire
Washer Door Won't unlock PCB If the washer door won't unlock the problem might be the main control board. This is not common. Check the inner wire			Door Lock	assembly might be defective. If the door won't latch ,check the door to see if the
	Washer Door		PCB	problem might be the main control board. This is not common. Check the inner wire

Error Code	Unit Action	Causes	Explanation
E33 Water level sensor wit	it will close ve and stop th Error code splay	Water level sensor or control switch (No voltage on the water inlet valve)	E33 means the unit can't detect the Signal of Water level sensor. CHECK THE WATER LEVERL SENSOR CHECK THE PCB and the inner wire between PCB and the sensor



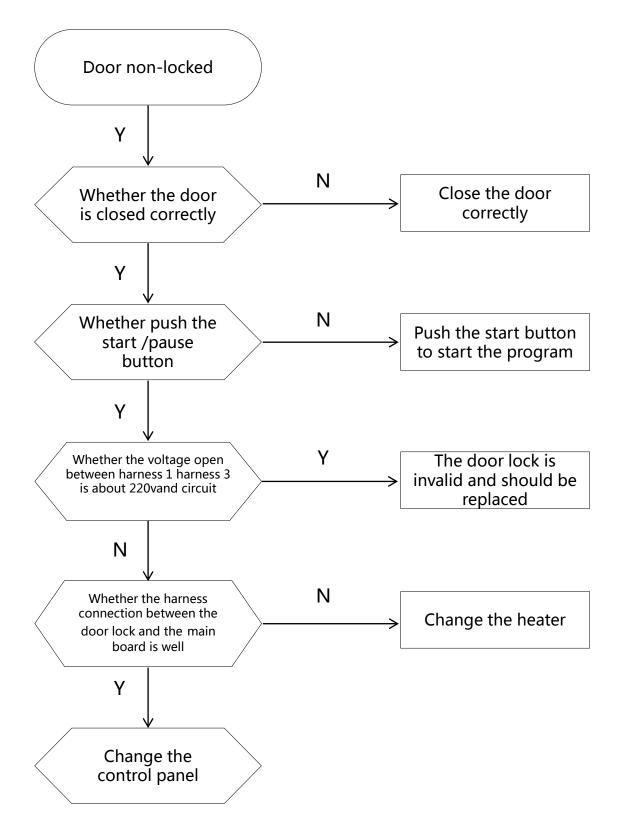
Fault tree

1. Maintenance non-heating malfunction



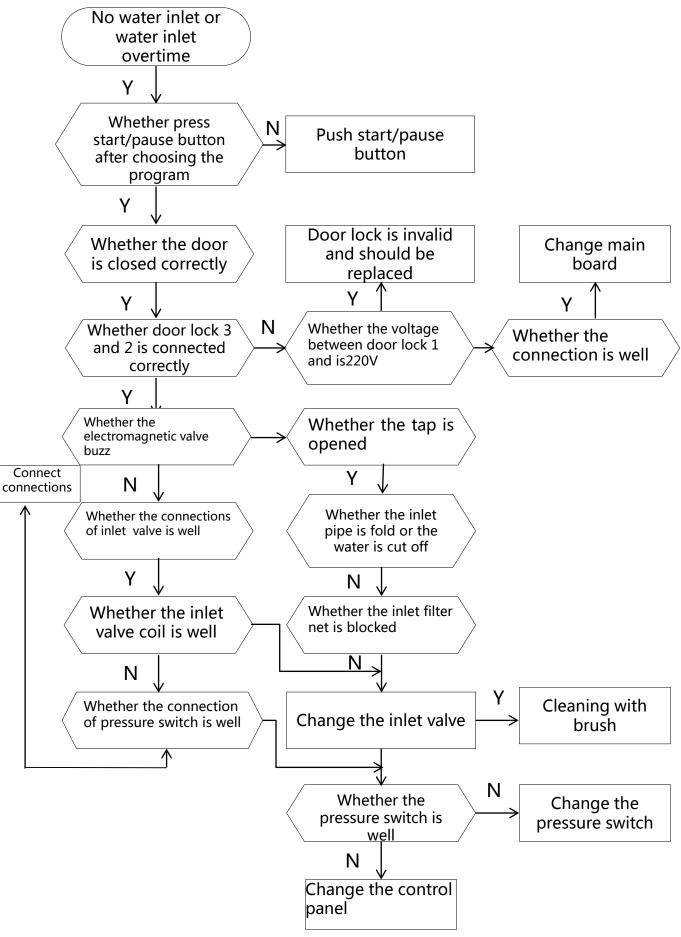


2. Door non-locked & its maintenance



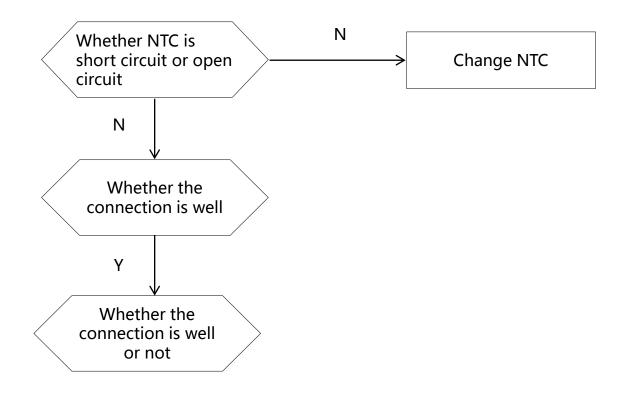


3. No water inlet or water inlet overtime



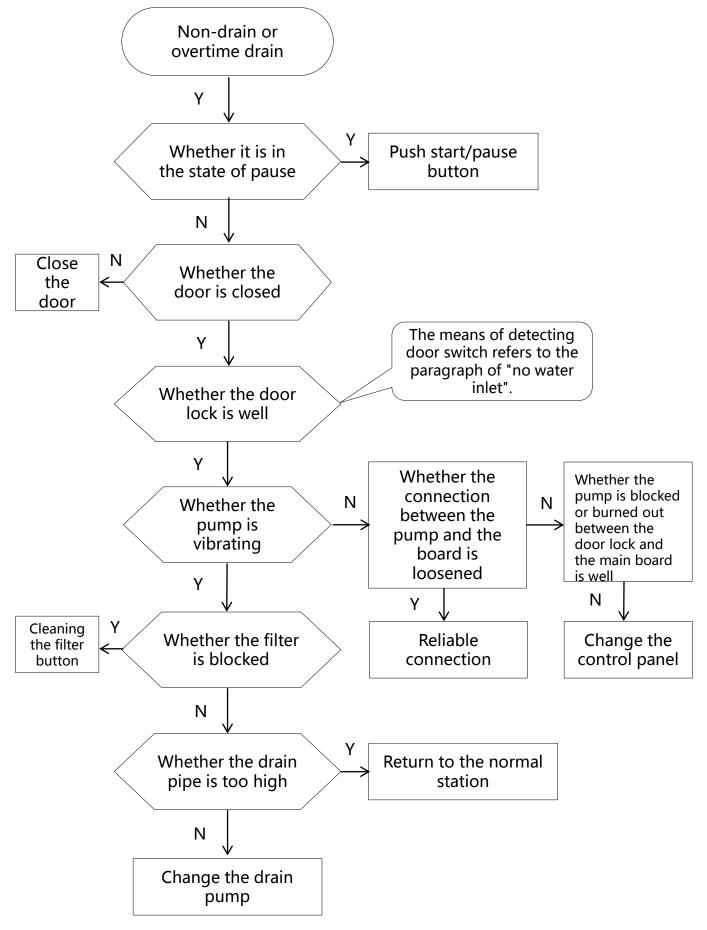


4. Over heating



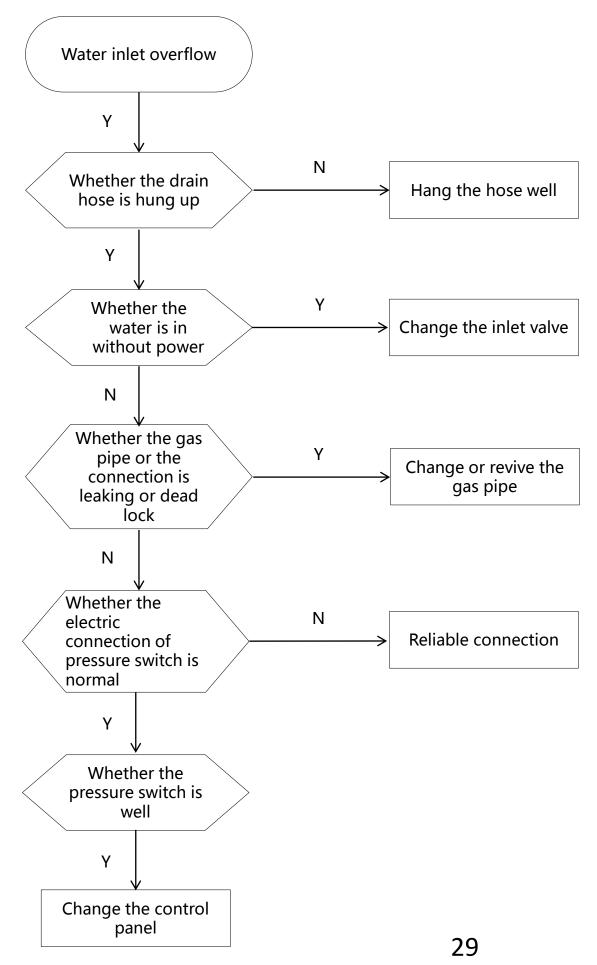


5. Maintenance of non-drain or drain exceed the setting time



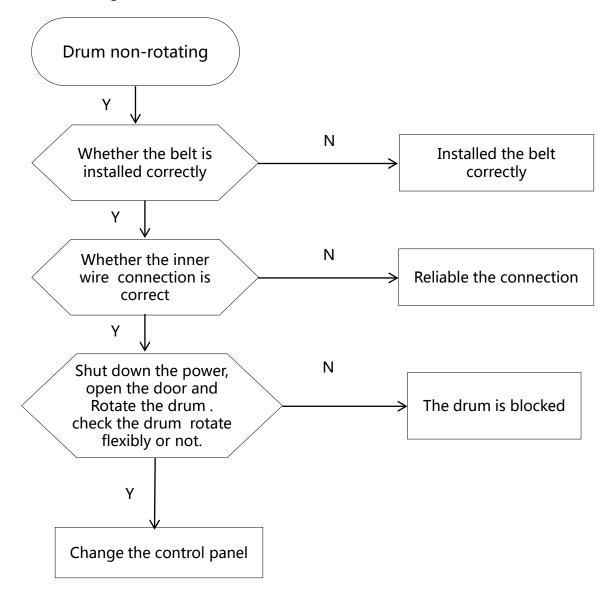


6. Water inlet overflow malfunction maintenance



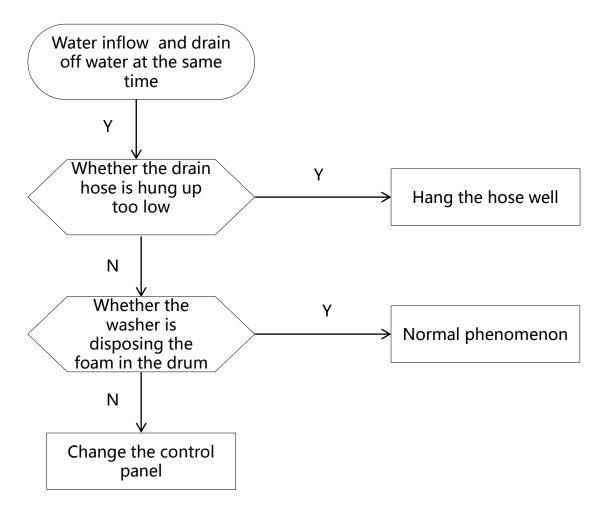


7. Drum non-rotating malfunction maintenance





8. Maintenance water inflow and drain off water at the same time





Malfunction and solution

Description	Solution	
The washing machine does not work	Close the washing machine's door.	
Water leakage	Correctly connect the inlet water pipe.	
The speed of the clothes is abnormal	Reload and distribute the laundry evenly in the drum.	
There is the peculiar smell in the washing machine	Run a Self clean(Drum clean) cycle without any clothes.	
No water is visible in the drum	No fault-water is under the visible area.	
There is the remaining water in the softener's box	No fault- the effect of the softener will not be affected.	
The remaining detergent is left on the clothes	The water-fast component of the non-phosphorus. detergent will be left on the clothes to form the line scale. Please select 【rinse】 or 【 spin 】 programme or brush away the fleck with the brush when the clothes is dried.	
The washing machine does not fill	Open the water tap. Check the selection of the procedure. Check the water. Pressure to see if the water pressure is insufficient. Put through the feed-water. Close the washing machine's door. To check it the inlet water pipe is bent or blocked.	
The washing machine fills and empties at the same time.	Make sure the end of the drainage pipe to be higher. Check if the drainage pipe and sewage have been sealed, if they have been, there will be the poor ventilation to cause the sip hon age effect.	
No drainage of the washing machine	Check if the drainage pump is blocked. Check if the drainage pipe is bent or blocked. Check the height of the drainage nozzle, make sure it is0.6-1 meter from the bottom of the washing machine.	



Level the washing machine. Level the washing machine. Fasten the footing. To check if the internal packing for the transportation have all been removed.
Check if the detergent is excessive, if it is the specialized detergent for the cylinder washing machine. Dip one scoop of the softener mixed with 1/2 liter of water to the detergent box II. Reduce the usage amount of the detergent in the next time's wash.
Power failure or water cut.
The inner barrel water of the washing machine has been drained but there is still a small amount of water in the drainage pump and pipe. The drainage pump continuously operates and takes in the air, and at this time there is the noise, which is normal situation.
The washing machine adds water automatically. Because there is too much bubble in the tube, the washing machine is cleaning the bubble.

If you cannot solve the above abnormal situations, would you please:

1. To turn the procedure knob to [OFF], pull out the attachment plug;

2. To close the water tap, and contact the nearest service center.



Before repairing, use multimeter to judge circuit stand of fail.

No	Parts	Picture	Test Description	Parameter	Remarks
1	Water Level Switch	() -	1.Measuring two straight line terminals 2.Measuring two vertical terminals	Break over after blow- PASS	
2	Door lock		Electrify the resistance	2 seconds after the power supply can automatically locked 1-2 mins after the power off can automatically locked-PASS	
3	Water valve	Ħ	measuring resistance	Resistance value range 3- 6KΩ- <mark>PASS</mark>	
4	Pump		Measure the resistance of the toroids	Resistance value range 150-250Ω- <mark>PASS</mark>	
5	Heater		measuring resistance	Resistance value range 20-35Ω- <mark>PASS</mark>	
6	NTC	-	measuring resistance	Resistance value range 4.8kΩ±8%@25℃0- <mark>PASS</mark>	
6	Motor		Measure the resistance of the toroids	Resistance value range PIN5~PIN10 1.3±10%Ω- <mark>PASS</mark>	<u>A</u>

7 SERVICE TOOLS





Number	Tools	Suitable kit	
		Heater 1	
1	Sleeve spanner	Motor 1 counterweight 5	
		Drum tub assembly	
		Strap screw	
2	Spanner	Adjust pulley screw leg and undo transport bolts	
3	Pliers and pinchers	Assembling or auxiliary function	
4	Other tools(screwdriver, pliers and so on)	Common service tools	



The end!