

SERVICE MANUAL

FL0812S008V1.1

Front Load Washing Machine


**MODEL: EWF1070M
EWF1070W**

HW-C Series



WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Chapter 1 General Information

1-1. General Guidelines

When servicing, observe the original lead dress. If a short circuit is found, replace all parts which are overheated or damaged by the short circuit. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields are properly installed. Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the service places serviced or not. And be sure safety of that.

1-2. Caution and Warning symbols

(You will see them in "Matters needing attention")



Any instructions in this service manual with this "Warning" sign must be followed strictly.



To prevent damage to the washing machine, any instructions in this manual with this "Stop" sign must be followed strictly.

1-3. Function indication symbols

(You will see them in the specification table)



Signify the washing machine has this function.



Signify the washing machine doesn't have this function.

Chapter 2 Product Feature

2-1. Features

Environmental friendly to protect your skin.

DC driver to save more energy and water

High speed is available for easily drying and washed items are always ready for further use.

Sterilization of electrolyzed water makes washing complete and clean

Super large LCD displayer provides a clear indication of functional operation

Memory function of power failure

Thorough rinse function

Dynamic washing function

Electromagnetic door lock, which will open when the machine stops

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2-2. Specification

washing machines			EWF1070M EWF1070W
<i>Last update</i>			
1. Product identification			
Description of appliance			Washing machine
Type of appliance(FS = standing, BI = built-in)			FS
Supplier own brand			☐ Electrolux
Supplier bar code	EAN		
Commercial Brand / Model			☐ Electrolux
Commercial bar code	EAN		☐ Electrolux
2. Key-Features			
Energy efficiency class			A
Washing performance class			A
Spin efficiency class			B
Programs	n°		11
Capacity	Kg		7
Spin speed (max. / optional)	rpm		1000
Noise level (sound pressure level)	dB(A)		71.9
Energy consumption per wash circle	kWh		1.19
Water consumption per wash cycle	l		56
Residual dampness (spin result)	%		50%
Spin speed selector switch (steps)	rpm		I
Spin speed variator (stepless)	rpm		I
Adjustable thermostat (water temp. adjust from - to)	°C		90 - T
Drum capacity dry laundry / water	kg / l		7/56
Auto water level adjust (depending on volume of filled in laundry)	AWL		I
Washing time (max.)	min		178
Washing temperatures (program-controlled)	°C		Cold/30/40/50/60/90
Certification's (CE / ISO 9001 / ISO 9002)			CE / ISO 9001
Approvals (VDE/GS / TÜV/GS / IMQ)			TÜV/GS (Rh.)
* per average 200 wash cycles (EN50242) T= COLD			I
3. Basics data			
Unit dimensions (H x W x D)	cm		84X59.5X61
Net weight	kg		72
Voltage/frequency	V/Hz		220-240V~50Hz
Input power / main fuse (intensity)	W / A		2000/10
Work top / removable			I / I
Control M = electromechanical, E = electronic, F = fuzzy			E
Inner cylinder S = stainless steel / Z = zinc coated			S
Outer cylinder P = Plastic / S = stainless steel			P
Door:			
aesthetic (R = round, Y = big eye, Q = square)			Y
Diameter	cm		30
Outer door frame S= stainless steel / M = metal / P = plastic			P
Inner door G= glass / P= plastic			G
Detergent compartments	n°		3
Removable compartment for liquid detergent			-
Delay timer (from - to)	h		0.5-24
Self cleaning suds pump			I
Water inlet hose cold water / hot water			I /-








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	Water drain	hose / -support		I / I
	Adjustable feet		n°	4
4.	Safety systems			
	Auto door lock		ADL	I
	Motor overheating protection		MOP	I
	No heating without water		NHW	I
	Auto water cool-down (before drain 90°C boiled water)		AWC	I
	Water protection		WRP	I
	Acqua Stop kit			I
	Child protection			I
5.	Programs			
	1) Cotton cycles	Strong/Normal/Delicate	n°	2
	1) Synthetics	Normal / Delicate	n°	1
	2) Wool		n°	1
	3) Hand wash		n°	1
	4) Sport program		n°	1
	5) Spin			1
	6) Drain		n°	1
	7) Underwear		n°	-
	8) Bulky Clothes		n°	-
	Optional function keys (additional program settings)			
	ON/OFF button			●
	Half load			●
	Super Wash			-
	Spin exclusion			●
	Spin reduction		rpm	●
	ECO Time			●
	No Soak			-
	Rinse stop			●
	Delicate			-
	Cold wash		T	●
	Accelerated Washing			●
	Extra Rinse			●
	No use detergent			-
	Healthy			-
	Time Delay			●
	Start/Pause			●
6.	Packing dimensions & loadability			
	Packing dimensions	(H x W x D)	cm	88.5*63.5*65
	Gross weight		kg	75
	40' Container load		pcs	
	40' HC load capacity		pcs	162

I Stand for having the function
- Stand for not having the function
ECO stand for economical wash



Chapter 3 Matters needing attention

3-1. Safety

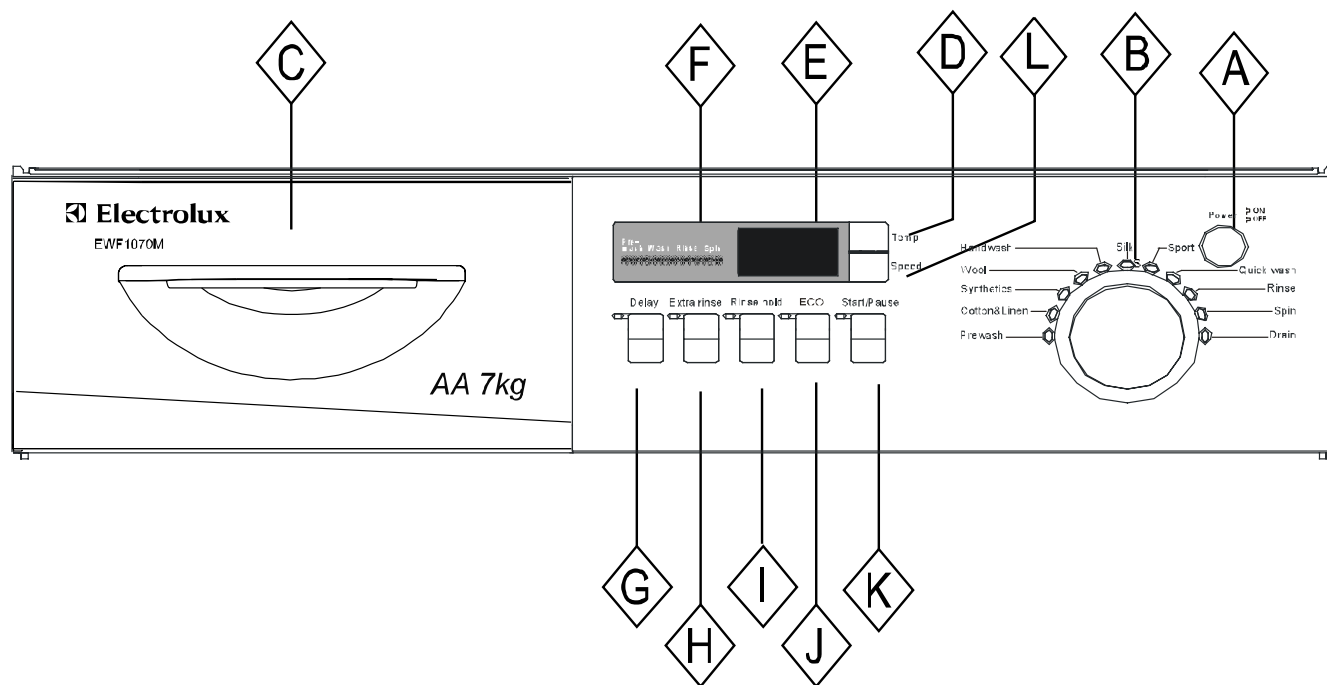
<p>1. A separate earthed socket is required for the power supply. The washing machine must be positioned so that the plug is accessible.</p> 	<p>2. Hold the plug and not the electric cable when unplugging the washing machine.</p> 
<p>3. Fuses in the power circuit should be rated for 15A. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.</p> 	<p>4. Do not touch or use the washing machine bare footed or when the hands or feet are wet.</p> 
<p>5. Do not use flammable detergent or dry cleaning agent; do not use flammable spray in close vicinity to the washing machine; do not remove or insert the plug in the presence of flammable gas.</p> 	<p>6. The door of the washing machine will become hot during the heating process. Avoid contact with the door during the heating process. For safety, keep children away from the washing machine.</p> 
<p>7. Keep children away from the packing materials after unpacked.</p> 	

<p>8. The washing machine should not be installed outdoors or in a damp place. In the event of water leakage or splashes allow the machine to dry naturally.</p> 	<p>9. The carpet must not obstruct the ventilation openings in the base of the washing machine.</p> 
<p>10. Keep away from heat sources and direct sunlight to prevent plastic and rubber components from aging.</p> 	<p>11. During installation, ensure that the electric cable is not trapped by the washing machine and avoid damage to the electric cable.</p> 

3-2. During Use

<p>1. Before use, check the joints of the filling hose, the tap and the drainage hose for possible problems from water pressure fluctuations. If joints are loose or there is leakage, turn off the tap and repair. Do not use the washing machine until the hoses are properly fixed.</p> 	<p>2. Keep the door slightly open when the washing machine is not in use to prevent formation of odors; do not cover the washing machine with plastic cover so that inside dampness cannot be kept in.</p> 
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Chapter 4 Operational Guidance



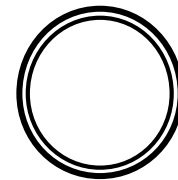
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A: Power Switch

Press this button to switch on the washing machine. Press it again to switch it off.

B: Wash programming knob

By turning the knob clockwise/counterclockwise, the required program can be selected.
(Refer to Guide to Operational Program Selection).



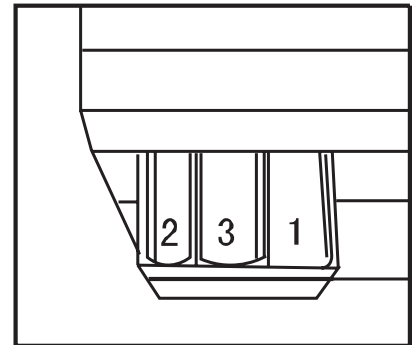
C: Detergent distribution drawer

Open the drawer, three compartments can be seen:

Compartment 1: Pre-wash detergent

Compartment 2: Normal - Quick wash detergent

Compartment 3: Softener, conditioning agent, perfume, etc.



D: Washing temperature knob

Touch this button lightly to select the required temperature (when a temperature is selected, the corresponding indicator will go on).

E : Display

Such information as remaining wash time, temperature and speed setting and error messages will be shown.

Note: After power is switched on, the display will go on and the remaining wash time decreases. As the water pressure and temperature may differ, the remaining time may be adjusted accordingly. When the laundry is not balanced during spinning, the time may be automatically prolonged. These are normal phenomena.

F : Washing indicator

It indicates the washing process of the selected program. When the light is on, it shows that the washing process being indicated is running.

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G: Delay Button

Touch this button lightly, the washing machine will start operation after a period of time and the corresponding indicator will go on. The range is 0.5-24 hours; each touch of this button increases a half hour. After the button is set, press the Start/Pause button to start countdown of the set time (the time is displayed on the screen until the program ends).

Note: The delay time must be longer than the program time; otherwise, the washing machine will start the wash program directly.

H: Extra rinse button

Touch this button lightly, the indicator will go on. An additional rinse operation will be activated.

Note: Select this function when programs 1-6 or 9 is selected.

I: Rinse hold button

Touch this button lightly, the overhead indicator will go on. When the washing machine is at the last rinsing operation, it will not drain but to start a soaking cycle. If you want to spin the laundry, press this button again, the indicator will go off and operation will resume.

Note: Select this function when "prewash", "cotton&linen", "synthetics", "single rinse" is selected.

J:  Time button

Before a washing program, press this button to set the required washing load (1:3-FULL), the washing machine will automatically adjust the water consumption, heating time and washing time. Users can select the washing load as required for economical operation.

Note: 1. "1:3-FULL" refers to the four levels of washing load. If the laundry is more than half of the drum content, it is recommended to select 2:3-FULL; otherwise, select 1:3-1:2.

2. For "synthetics", "sport", you can only select 1:3-2:3.

3. Please adjust the detergent quantity as per the washing load selected.

K: Start/Pause button

When the washing machine is plugged and program is selected, lightly touch this button to start operation. During a wash cycle, touch it lightly, the display will begin blinking and operation will stop. Touch it again to resume operation.

L: Spinning speed setting button

Touch this button lightly to select the desired speed. There are speed indicators over this button.

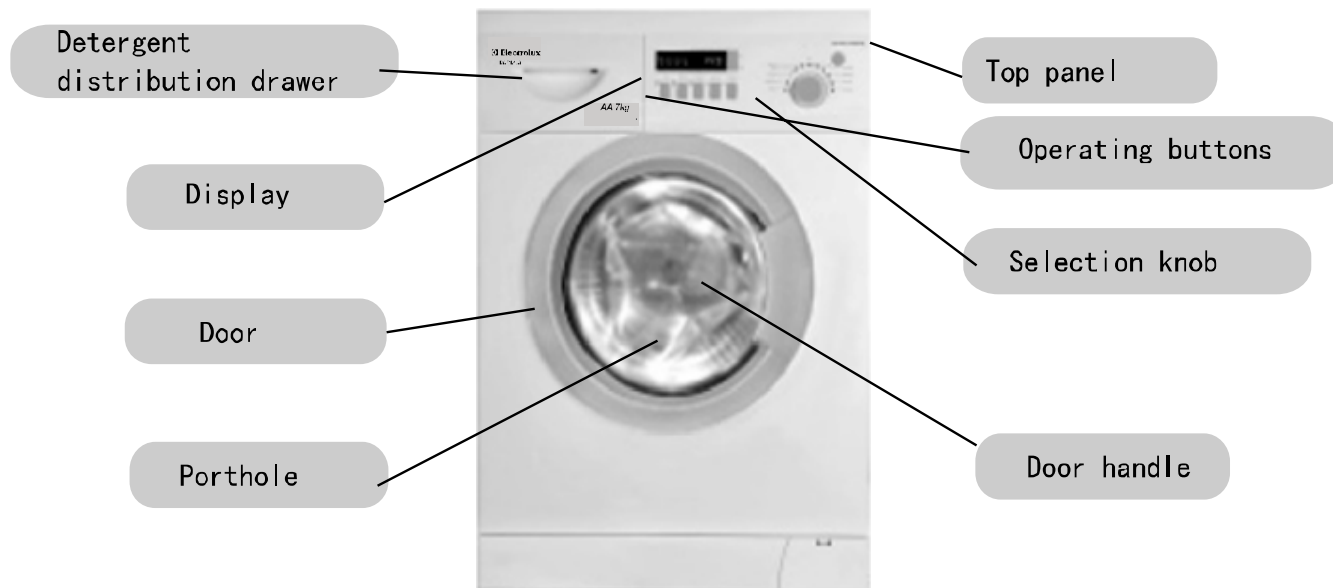
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Chapter 5 Program Introduction

Mode Selection (Program Knob Position)		Recommended Laundry	Temperature	Default	Setting	Detergent			
						1	2	3	
1	Prewash	Heavy-soil laundry	* 30°C 40°C 50°C 60°C 90°C	1000rpm	40°C	★	★	○	
	2	Cotton- &linen	Cotton fabric	* 30°C 40°C 50°C 60°C 90°C	1000rpm	40°C	×	★	○
	3	Synthetics	Synthetic fabrics	* 30°C 40°C 50°C 60°C	1000rpm	40°C	×	★	○
	4	Wool	Wool fabrics	* 30°C 40°C	✗	*	×	★	○
5	Handwash	Woolens with a felt-free finish and special-care items identified as machine washable	* 30°C 40°C	✗	*	×	★	○	
	6	Silk	Silk fabrics	* 30°C 40°C	✗	*	×	★	○
	7	Sport	Sports wear	* 30°C 40°C	1000rpm	40°C	×	★	○
8	Quick	Slight-soil cotton, linen and synthetic fabrics	* 30°C 40°C	1000rpm	40°C	×	★	○	
	9	Rinse	*	1000rpm	*	×	×	○	
	10	Spin	*	1000rpm	*	×	×	×	
	11	Drain	*	✗	*	×	×	×	

Chapter 6 Appearance brief introduction

6-1. Name of parts



6-2. Net dimension



height:840mm / width:595mm / depth:610mm

Chapter 7 Disassembly and Installation

7-1. Remove packing materials

Remove all the packing materials (including the foam base) to prevent vibration during use, as shown in Fig. 1.

Upon opening of the package, water drops may be seen on the plastic bag and the porthole. This is normal phenomenon resulting from water test in the factory

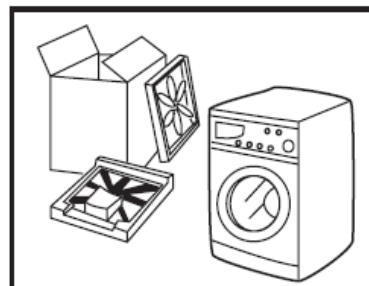


Fig.1

7-2. Dismantle packing bolts

Dismantle the packing bolts as shown in Fig. 2.

The packing bolts are designed for clamping anti-vibration components inside of the washing machine during the transportation process.

Before use:

1. Remove the back plate;
2. Remove the three packing bolts on the back plate and take out the rubber hose;
3. Replace the back plate;
4. Fill the holes left by the packing bolts with plastic plugs.

Attention: The packing bolts and rubber hose should be kept in a safe place for later use.

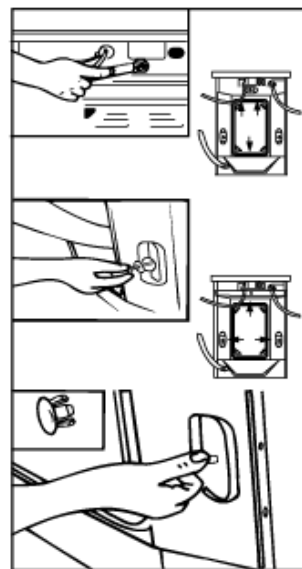


Fig.2

7-3. Adjusting the washing machine

There are adjustable feet under the bottom of the washing machine. Before use, the washing machine should be adjusted, as shown in Fig. 3, so that it is level.

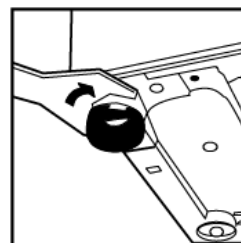
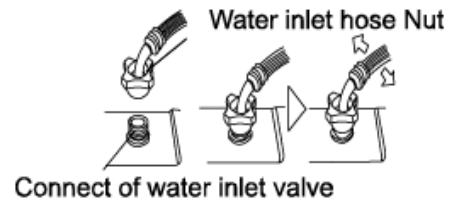


Fig.3

7-4. Joining the Inlet Hose to the Washing Machine

1. Connect the nut on the inlet hose to the connector on the water valve.
2. Tighten the nut to secure the hose.



7-5. Connecting to the Power Supply

Before connecting to the power supply, check:

The socket is adequate for the maximum power of the washing machine (For safety, fuses in the power circuit should be rated for no less than 15A).

The voltage should meet the requirement.

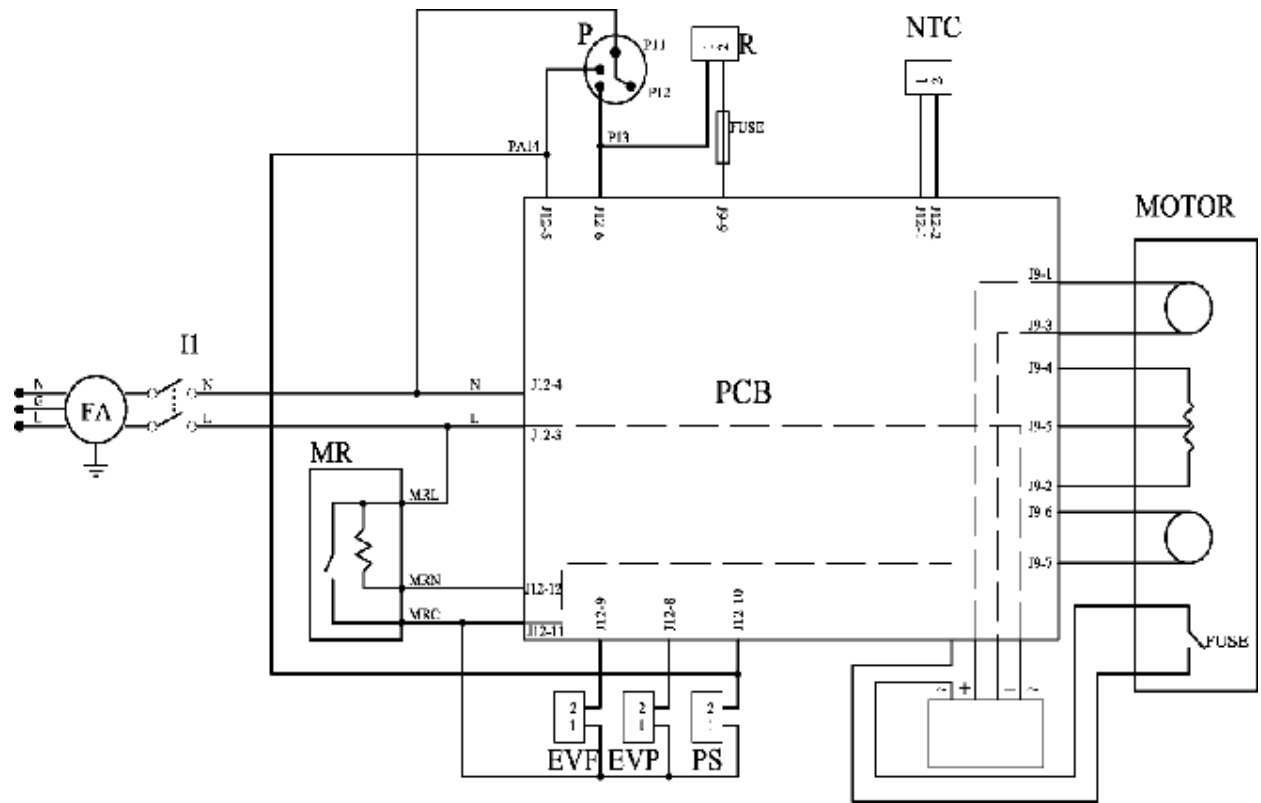
The power supply socket and the plug of the washing machine should be compatible. if they are not compatible Refer to a washing machine technician or a Haier designated service point for power cable replacement. The washing machine should be connected to the earth before use.

Supplementary earth cable should not be necessary if the socket is connected to the earth.

Supplementary earth cable should be installed on the upper back of the washing machine and connected to an earth if the power supply socket has no earth connection.

Chapter 8 Wiring circuit

8-1. Wiring circuit



8-2. Self check

Note:

1. If you want to stop the program setting, at first, you should press the button of start/pause only one time. Then turn off power. If you want to start the program setting again, you should turn on the power again, so it is ok.
2. Switch on the power, press the "extra rinse" button and the "rinse hold" button at the same time, the washing machine will display the model. Then press "start/pause" button, the washing machine will be in self check mode.
 - 1) When the door switch is closed for ten seconds, 88:88 will be displayed.
 - 2) When the main wash valve allows water to let in for 3 seconds, 77:77 will be displayed.
 - 3) When the pre-wash valve allows water to let in for 3 seconds, 77:77 will be displayed.
 - 4) When the hot water valve allows water to let in for 3 seconds, 77:77 will be displayed.
 - 5) When the main wash valve, the pre-wash valve and also the hot water valve allow water to let in for 3 seconds at the same time, 77:77 will be displayed.
 - 6) When the motor runs for ten seconds with the spin speed 93rpm, 66:66 will be displayed.
 - 7) When the motor runs for 50 seconds with the spin speed 800rpm, 66:66 will be displayed.
 - 8) When the main wash and pre-wash allow the water to go in meanwhile until the maximum water level, 55:55 will be displayed.
 - 9) When the water fills the tub fully, it will stop for ten seconds and at this time 55:55 will be displayed.
 - 10) When the motor runs clockwise for 15 seconds with 50 rpm, the washing machine will stop for 5 seconds and at this time 44:44 will be displayed.
 - 11) When the washing machine heats water for 10 seconds, 33:33 will be displayed.
 - 12) When the washing machine drains for 30 seconds, 22:22 will be displayed.
 - 13) When a program cycle is finished, END will be displayed.

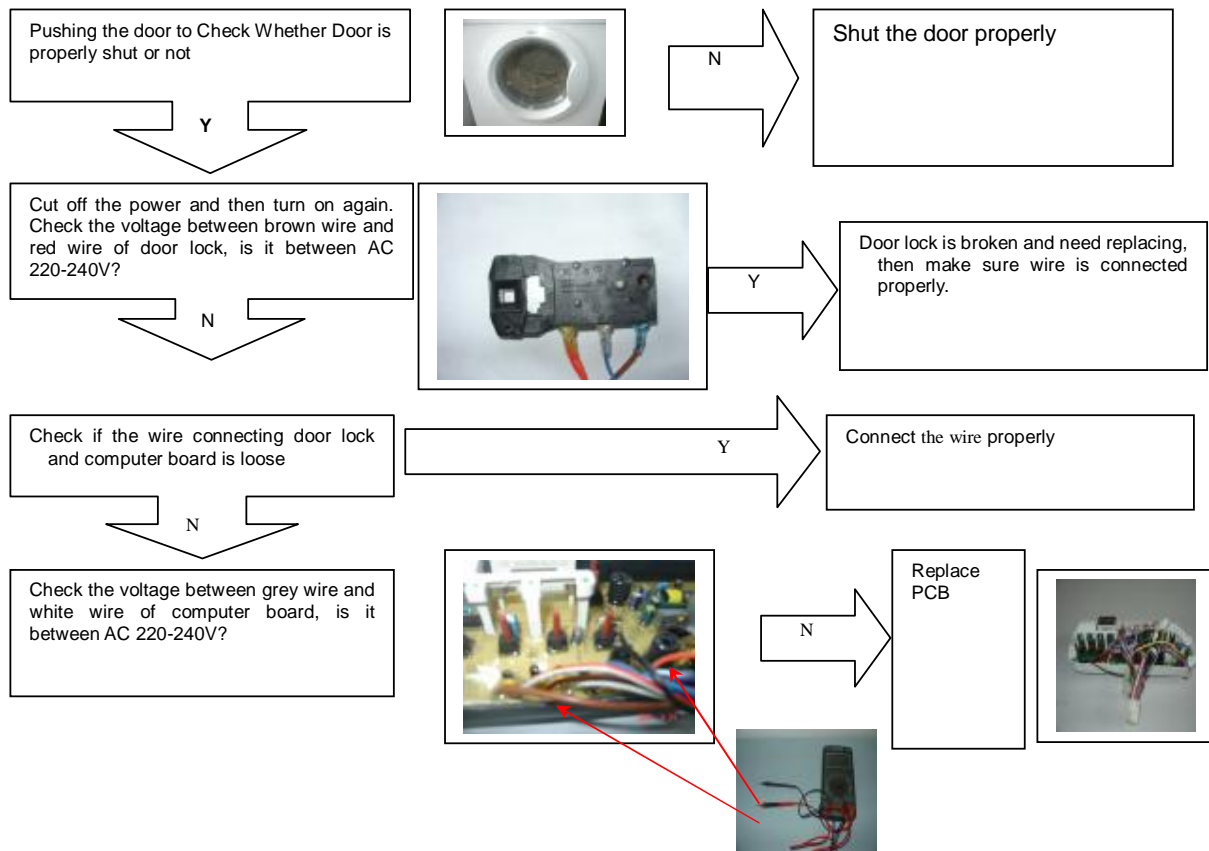
Chapter 9 Error Display and troubleshooting

9-1. Error Display



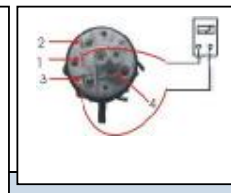
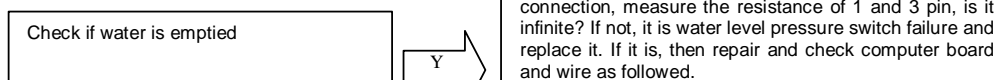
Error message: Door is not properly shut 20s after program is started.

Troubleshooting:

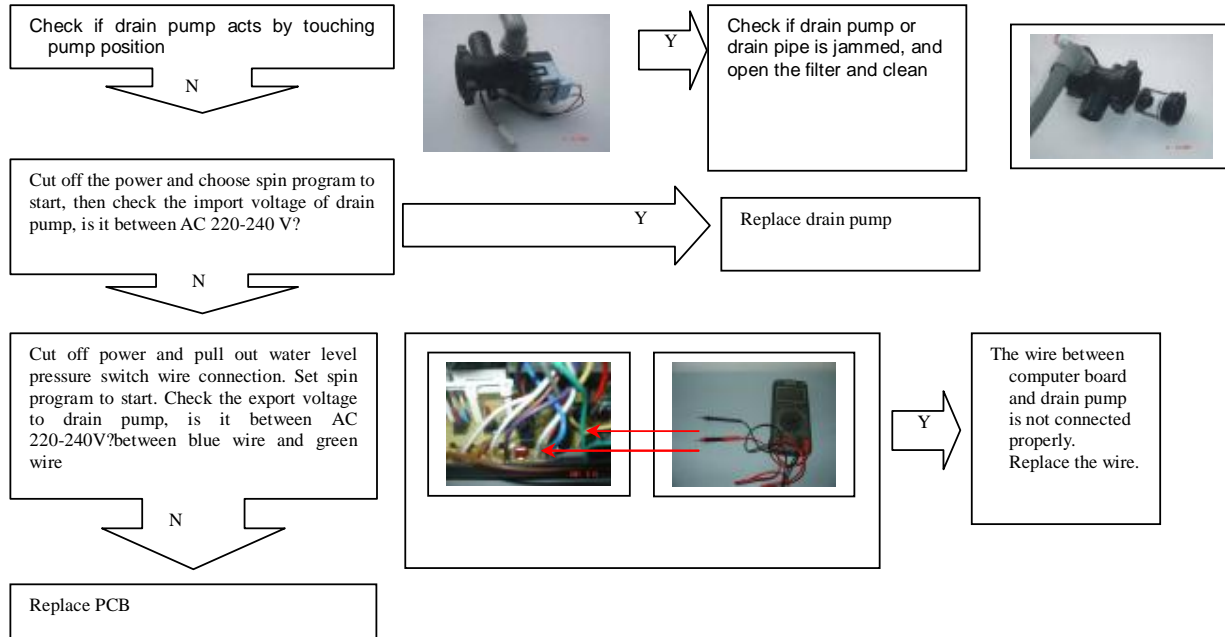


Error message: Drainage error, water not emptied within 4 min.

Troubleshooting:

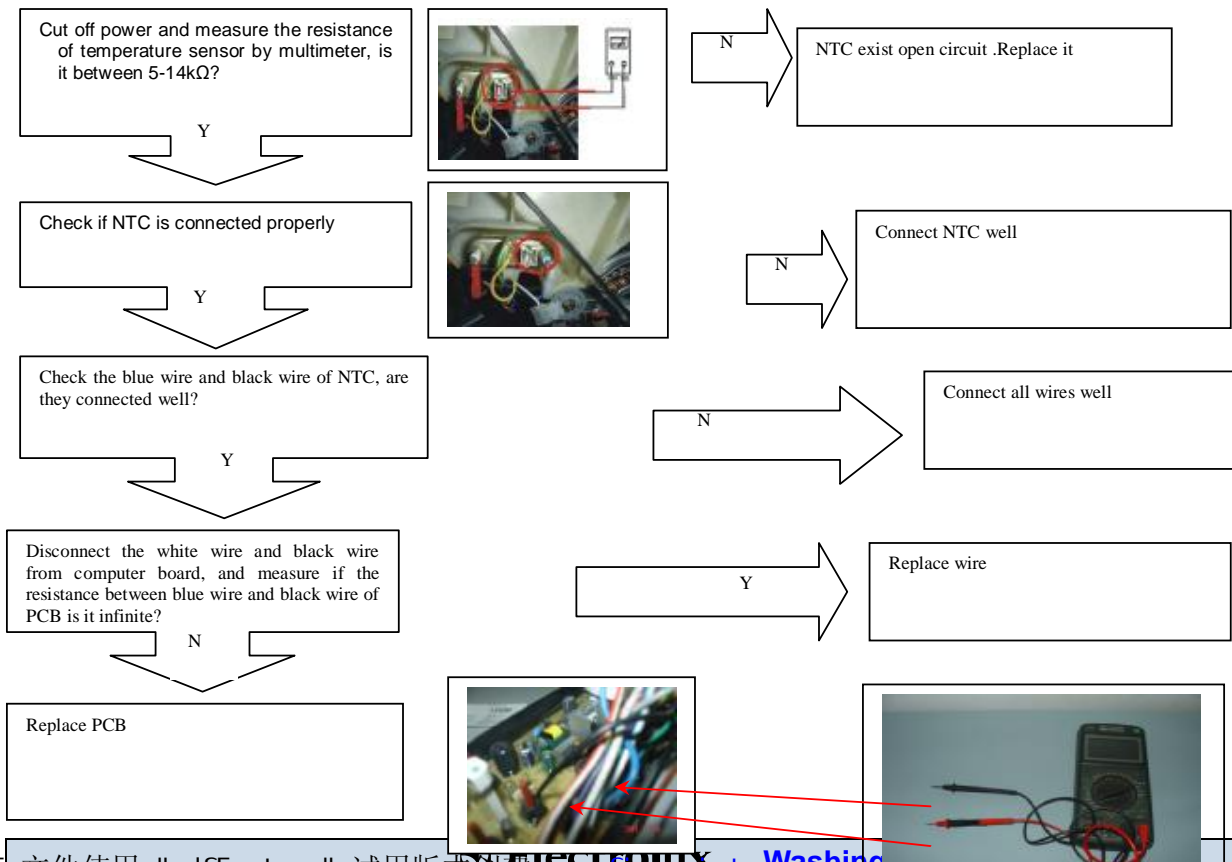


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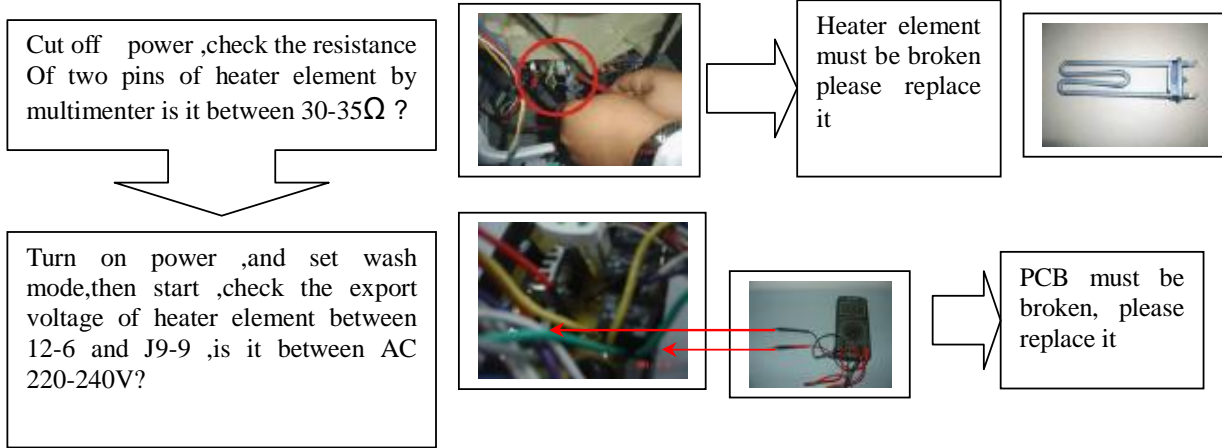
Error message:Temperature sensor is not properly connected or damaged (display at the end of a program).

Troubleshooting:

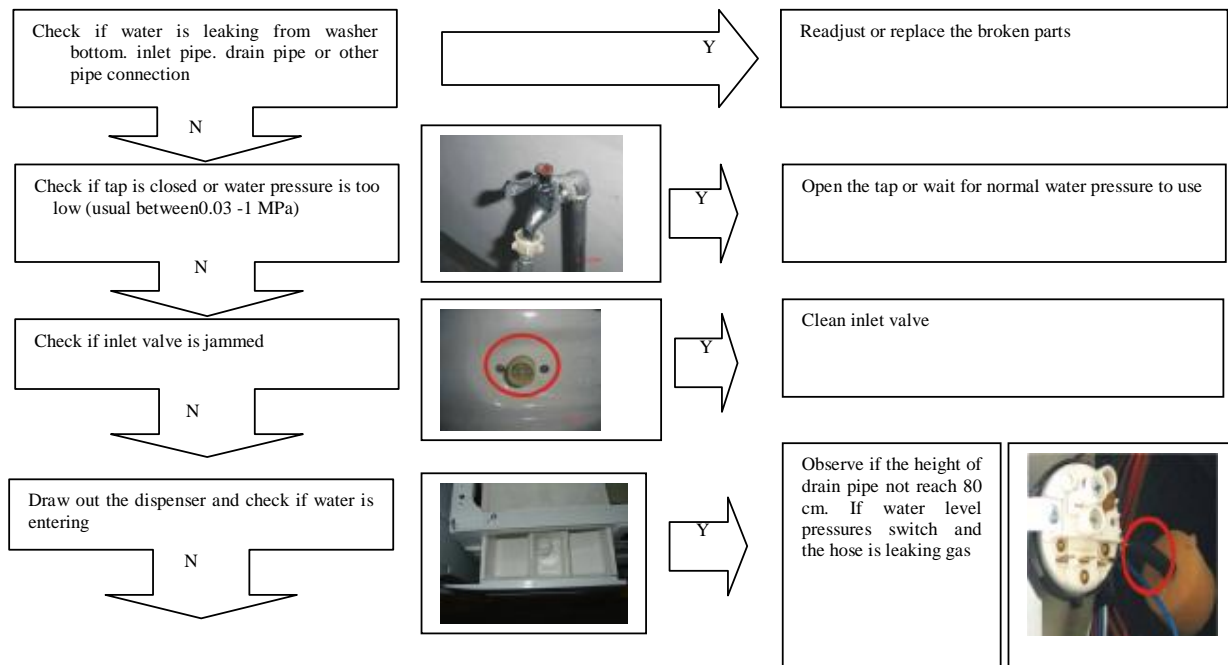


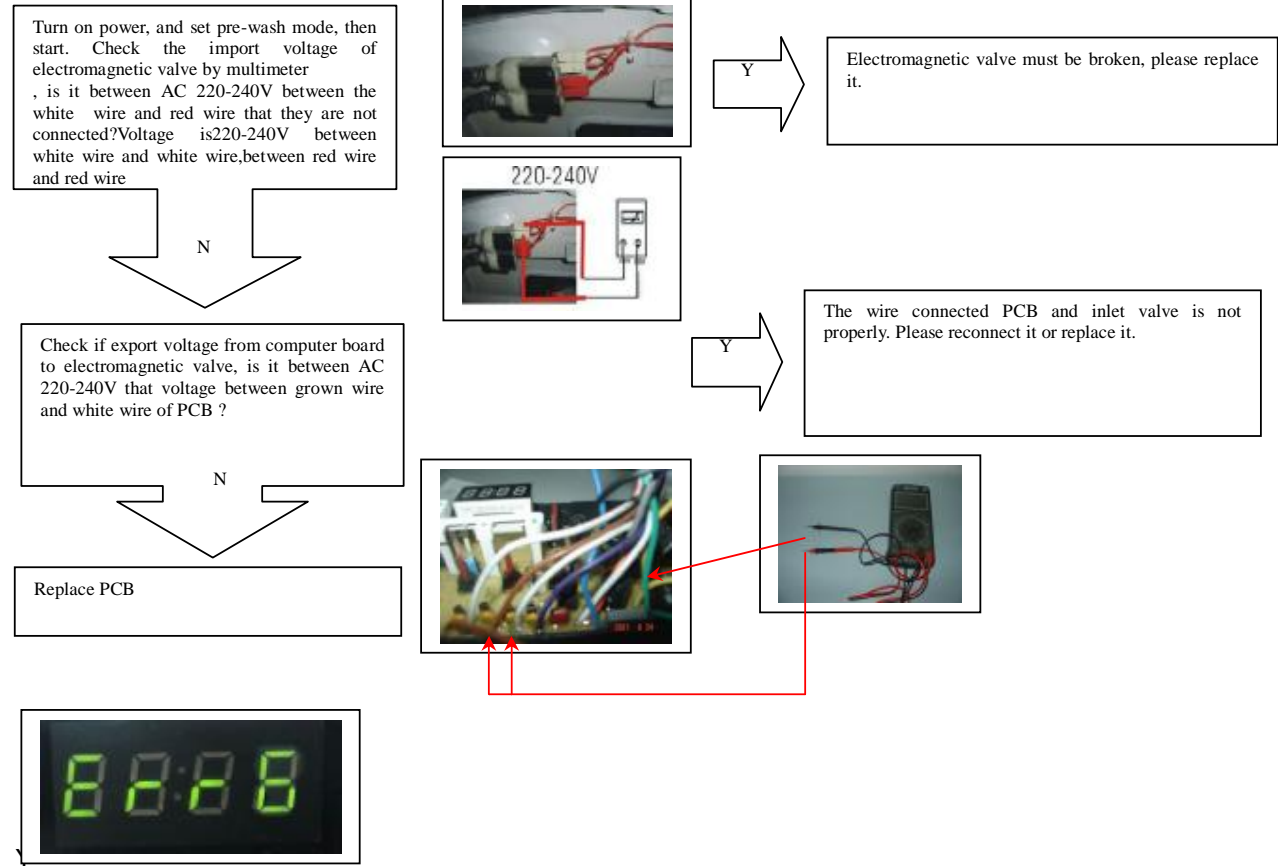


Error message :The heater may be broken
Troubleshooting:

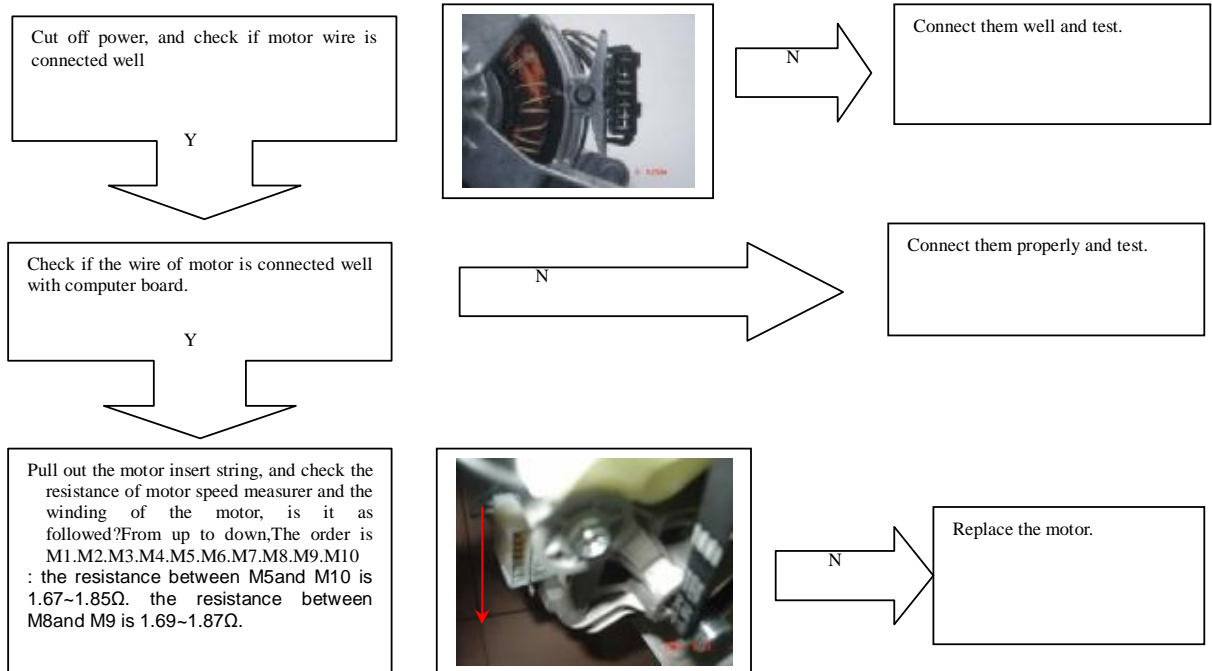


Error message:The required water level is not reached within 8 min.
Troubleshooting:

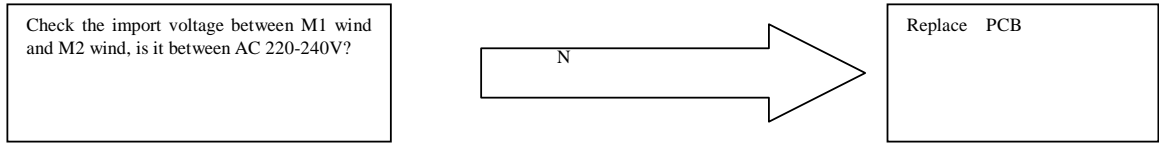




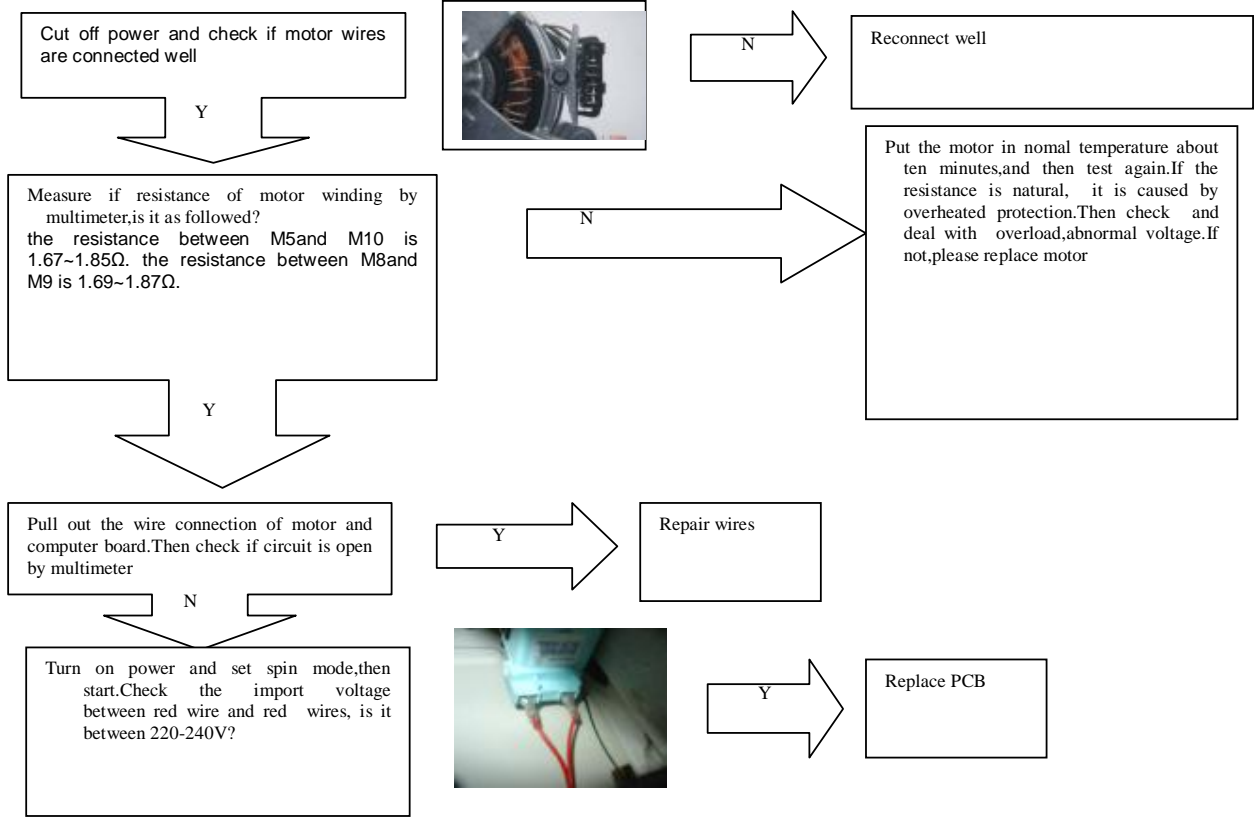
Error message: Motor speed error .it may be not properly connected or damaged.
Troubleshooting :



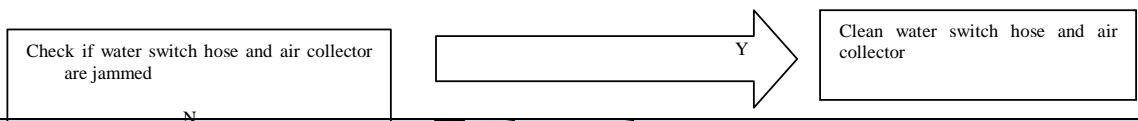
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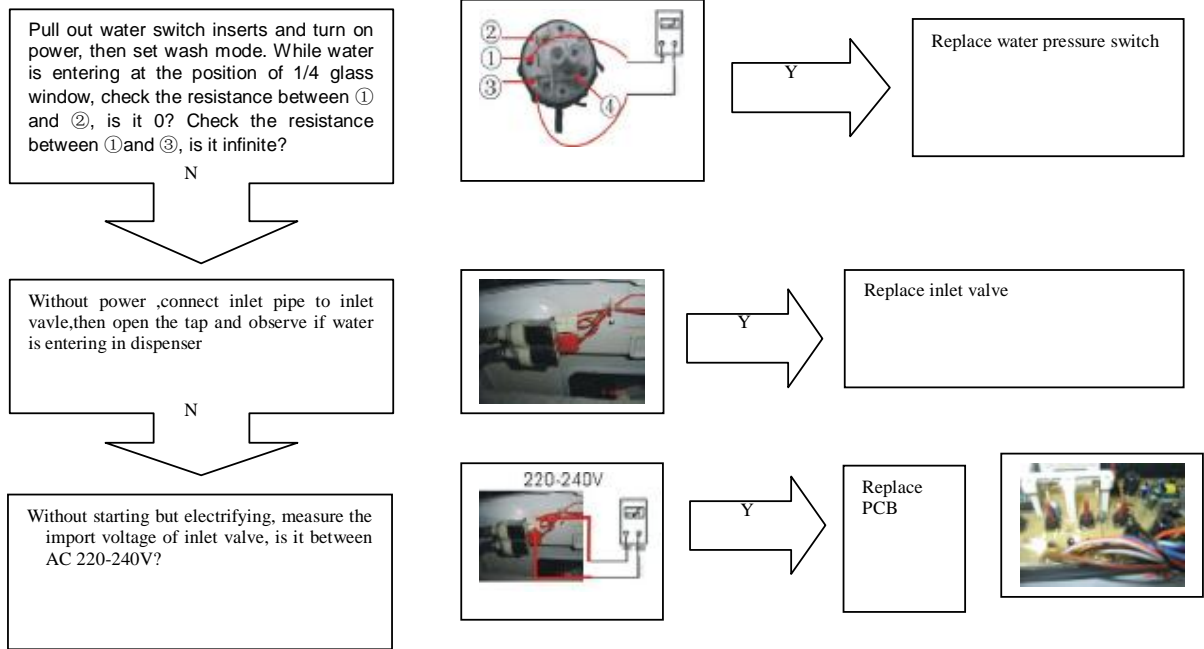


Error message. Motor overheat protection or is damaged.
Troubleshooting:



Error message. Water level exceeds protection value.
Troubleshooting:

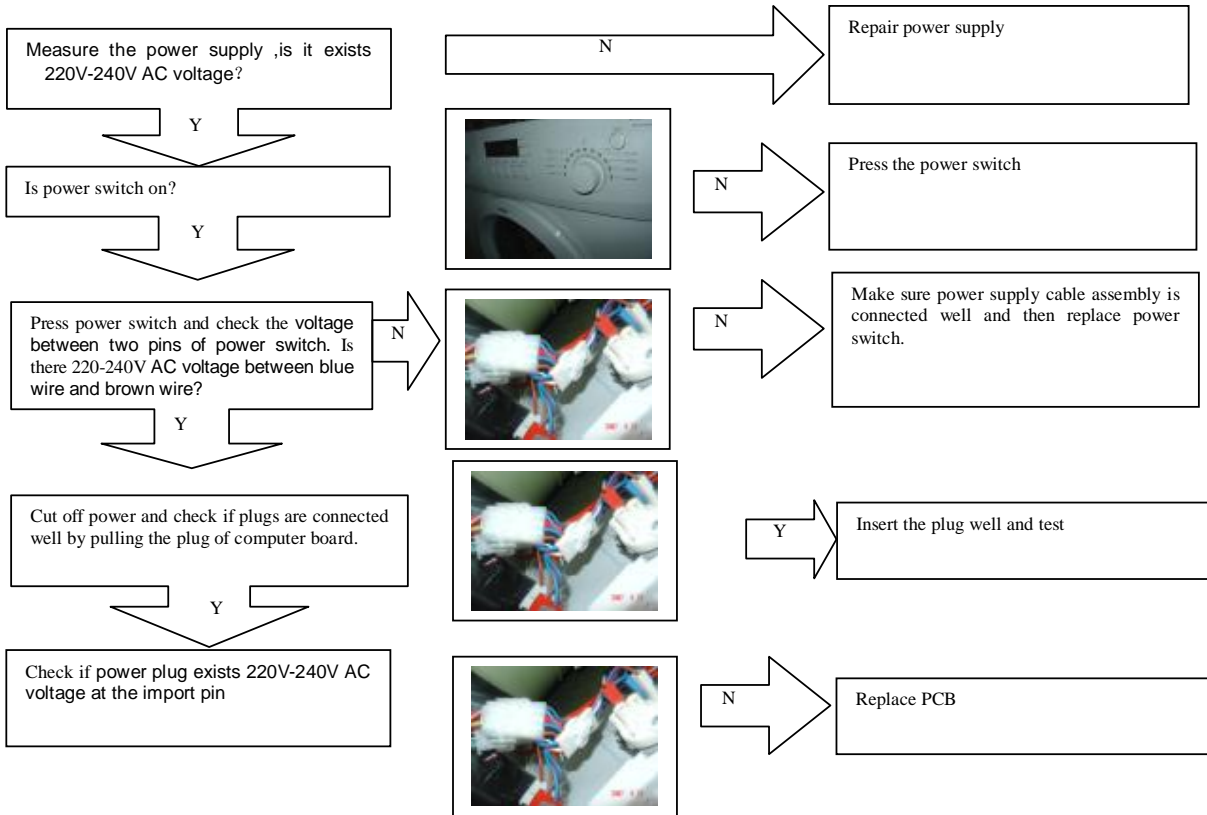




9-2. Examination & Troubleshooting

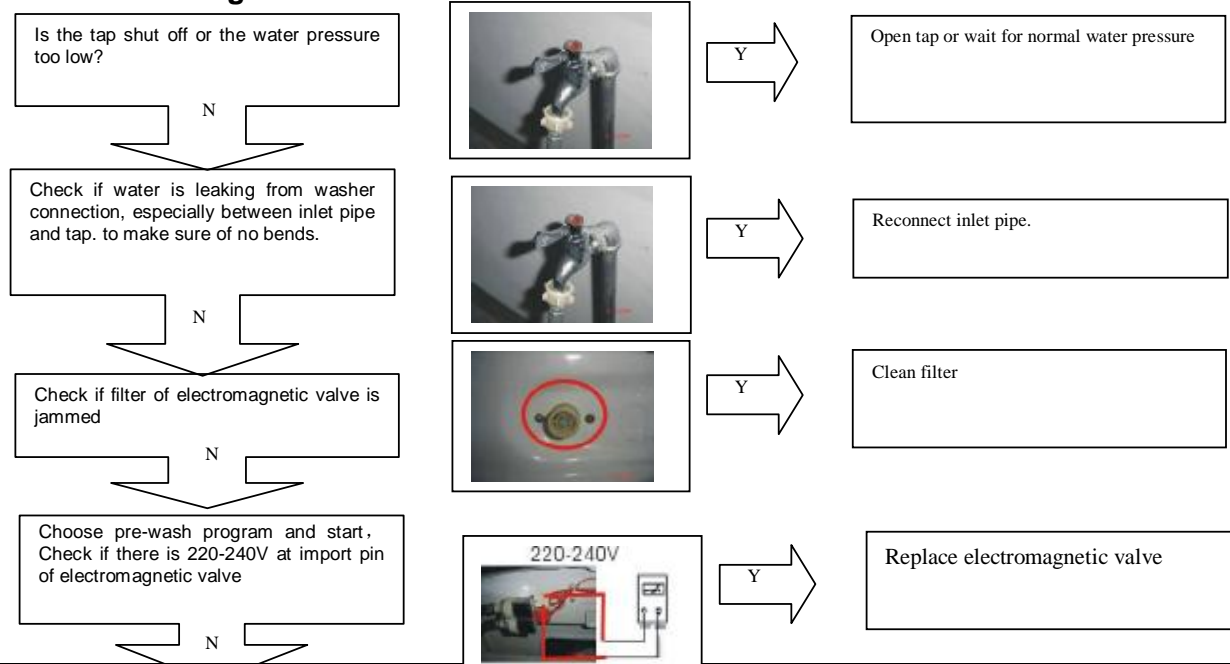
9-2-1. Display nothing

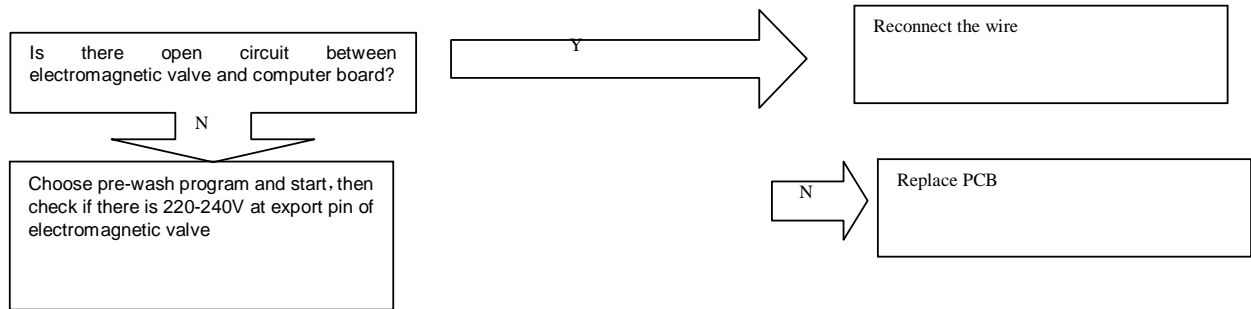
Troubleshooting:



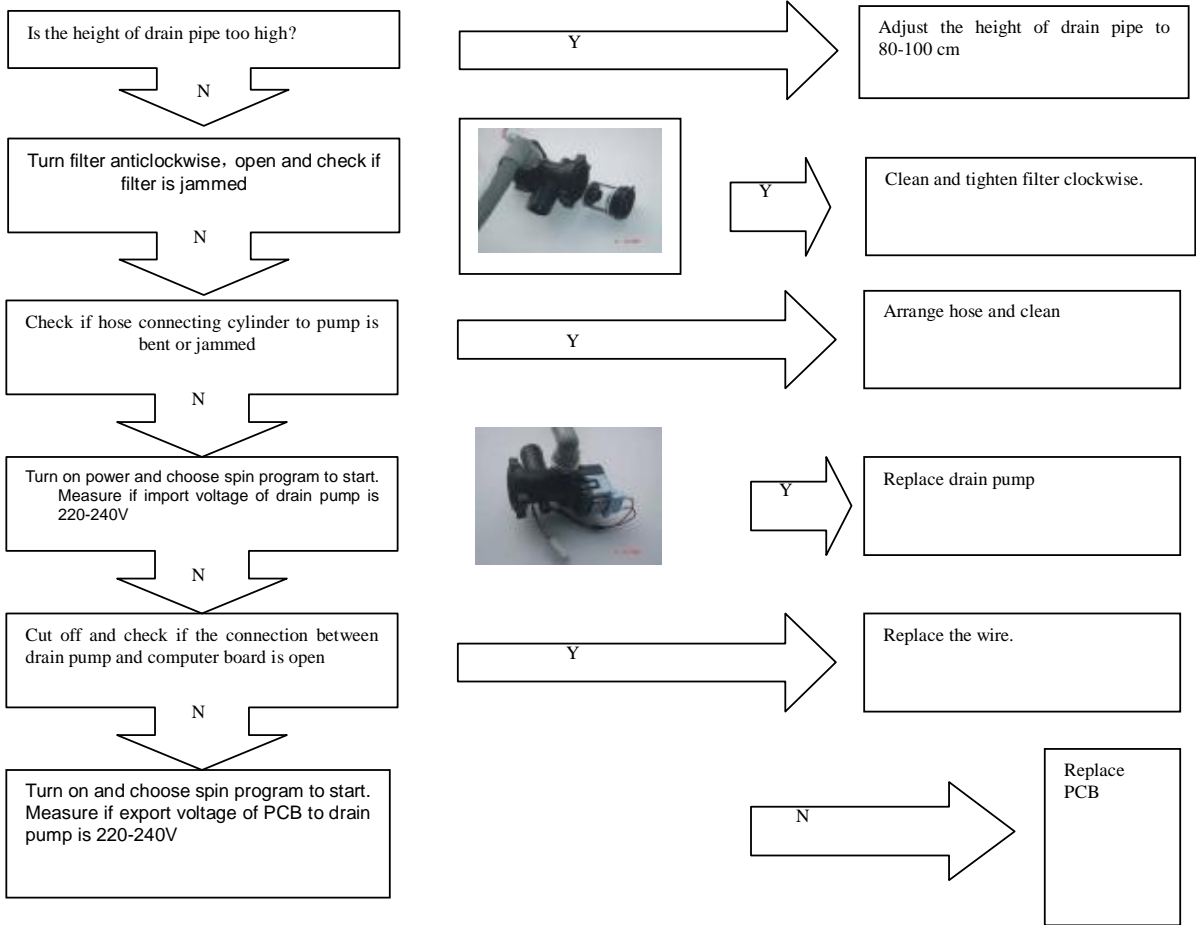
9-2-2. No water inletting

Troubleshooting:

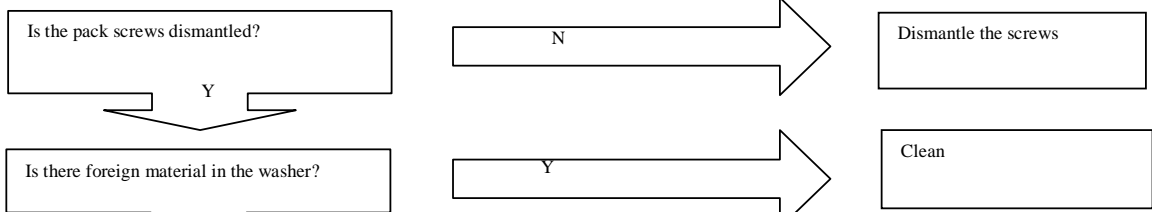




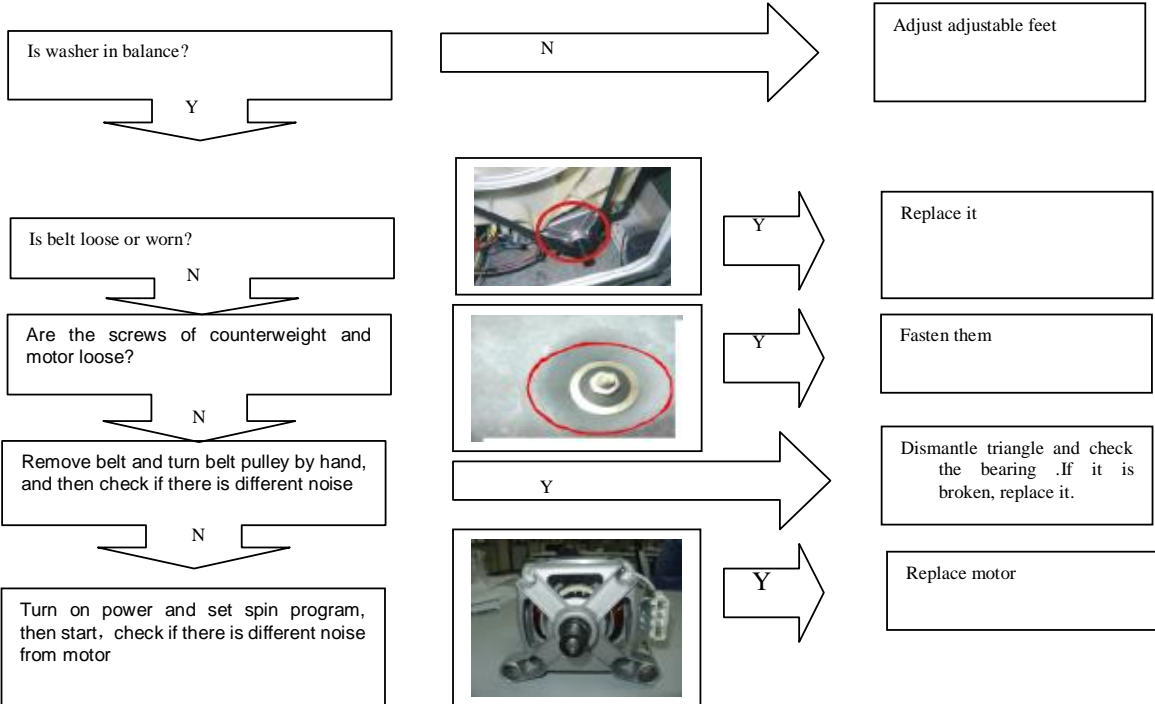
9-2-3. No draining Troubleshooting:



9-2-4. Abnormal noise and vibration Troubleshooting:



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9-2-5. Water leaking Troubleshooting:

