

Haier SERVICE MANUAL

Order No.

Front Load Washing Machine

MODEL:HW70-1202D
HW60-1202D
HW60-1002D
HW50-1202D



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.

Chapter 2 Product Feature

2-1. Features

(1). 320mm diameter porthole, door may be open at a 175 degrees.

Facilitate view of wash process, facilitate unloading and easy to use with large port.

(2). Class A energy-saving

Scientific design for tub can reduce the use of water heavy during washing, consequently upgrade the energy efficiency class to A, also use scientific washing

(3). Multi-gear speed controller

According to different costuming, you can select corresponding spin speed, from 0 to 1400 rpm.

(4). Unique gasket design featuring no residual water hidden inside.

By the unique gasket, washing machine can left no residual water hidden between outer drum and front board.

(5). Delay time adjustable.

According to different costuming, you can select delay time, from 0.5h to 24h.

2-2. Specification

HW60-1202D

Energy labelling for electrical clothes washing machines for household use

Summary of Test Results

Capacity (cotton)	kg	6.0
Energy Efficiency Index	%	54.51
	Class	A+
Annual Electric Energy Consumption	kwh/year	175.68
Low power mode Energy Consumption	Kwh/year	6.21
Total Annual Energy Consumption	Kwh/year	181.89
Washing Performance		1.02
Spin Drying Performance	%	59%
	Class	C
Spin speed	rpm	1206
Annual water Consumption	L/year	8482.6
Main Wash	L	12.9
Length of cycle	min	167

Test Conditions

Installation:	in accordance with manufacturer's instruction			
Programme controller:	electronic			
Tested programme:	cotton, 40° • 60° ; 6.0kg, 1200rpm • intense			
Supply voltage during test:	230 V ± 1 %			
THD for power supply	0.66%			
Supply frequency during test:	50 Hz ± 1 %			
Measured room temperature:	21.5°C~23.5 °C			
Supply water:	-measured temperature	15.5°C~16.0 °C		
	-measured hardness	240ppm		
	-measured pH-value	7.3~7.6		
	-pressure	240Kpa		
	-hardness preparation	IEC 60734 type B		
Detergent:	-type	reference detergent	base detergent IEC-A*	sodium perborate TAED
	-amount	112g	86.2g	22.4g 3.36g
	-batch/production date		167-513(7-2010)	SPB4.227-564 NO23576003
	-supplier		WfK	WfK WfK
Textiles:	-conditioned mass in kg	6.0kg		
	-average age (number of uses)	42		
	-supplier	WfK		
	-composition (number of pieces)	2sheet, 8pillowcases, 25towels		
Test strips:	-batch number	108-31		
	-supplier	EMPA		
	-number of strips	partial load • 8 full load • 6		

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Energy labelling for electrical clothes washing machines for household use

Cycle data, parameters and results

Cycle:		1	2	3	4	5	6	7	Average	standard deviation
data of cycle	yr.m.d	2011-2-14	2011-2-14	2011-2-15	2011-2-15	2011-2-16	2011-2-17	200-2-18		
Base Load		Part A	Part B	Part B	Part A	Full load	Full load	Full load		
Measured Programme		cotton 40°C	cotton60°C	cotton40°C	cotton60°C	cotton60°C				
Main wash cold water consumption	L	10.6	11.2	11.3	11.4	15.1	15.7	15.1	12.9	2.255
Main wash hot water consumption	L									
Total hot water onsumption	L									
Total cold water onsumption	L	31.8	33.8	33.5	34.4	45.4	46.5	44.5	38.6	6.537
Total water onsumption	L	31.8	33.8	33.5	34.4	45.4	46.5	44.5	38.6	6.537
Unit water consumption	L/kg	5.3	5.6	5.6	5.7	7.6	7.8	7.4	6.4	1.089
Annual water consumption for total 220 cycles (AWC)	L	8483								
Main wash duration	min	123	144	123	144	145	140	140	137	9.764
Heating time	min	12	21	11	22	22	23	23	19	5.273
Programme time	min	152	171	153	171	174	174	174	167	10.000
Electrical energy consumption (for programme)	kWh	0.562	0.876	0.557	0.878	0.865	0.904	0.881	0.79	0.157
Total cold water correction energy	kWh	0.006	0.007	0.007	0.007	0.009	0.018	0.014	0.010	0.005
Total hot water correction energy	kWh	N/A								
Total energy consumption (Wt)	kWh	0.568	0.883	0.564	0.885	0.874	0.922	0.895	0.799	0.160
Unit energy consumption	Kwh/kg	0.095	0.147	0.094	0.147	0.146	0.154	0.149	0.133	0.027

Energy consumption for single Low power mode in total 220 cycles

Energy consumption for (LU)	=	0.08	kwh
Energy consumption for (LO)	=	3.06	kwh
Energy consumption for (O)	=	3.07	kwh

Energy consumption for total 220 cycles

Energy consumption for programme running	=Wt*220		175.68	kwh
Annual energy consumption for total 220 cycles (AEc)	$AE_c = W_{total} \times 220 + \left\{ \frac{P_o}{1.000} \times \left[\frac{525.600 - ((t_r + t_{mlU}) \times 220)}{2 \times 60} \right] \right\} + \left\{ \frac{P_{LO}}{1.000} \times \left[\frac{525.600 - ((t_r + t_{mlU}) \times 220)}{2 \times 60} \right] \right\} + \left[\frac{P_{LU}}{1.000} \times \frac{(t_{mlU} \times 220)}{60} \right]$			
	AEc	=	181.89	kwh
Energy consumption for SAEc	SAEc	=	333.70	kwh
Energy Efficiency Index	EEl	=	54.5	%
Energy Efficiency Class	<div><div></div><div></div><div><div></div></div><div></div></div>			
	<div><div></div><div></div><div></div><div></div></div>			

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Energy labelling for electrical clothes washing machines for household use

Summary of Test Results

Capacity (cotton)	kg	7.0
Energy Efficiency Index	%	48
	Class	A++
Annual Electric Energy Consumption	kwh/year	181.04
Low power mode Energy Consumption	Kwh/year	3.29
Total Annual Energy Consumption	Kwh/year	184.33
Washing Performance		1.02
Spin Drying Performance	%	55%
	Class	C
Spin speed	rpm	1346
Annual water Consumption	L/year	9309.1
Main Wash	L	15.4
Length of cycle	min	181

Test Conditions

Installation:	in accordance with manufacturer's instruction			
Programme controller:	electronic			
Tested programme:	cotton,40°C, 60°C,1400rpm, intense,display2:38,2:58			
Supply voltage during test:	230 V ± 1 %			
THD for power supply	0.65%			
Supply frequency during test:	50 Hz ± 1 %			
Supply water:	-measured temperature	22.5°C~23.6 °C		
	-measured hardness	15.5°C~16.4 °C		
	-measured pH-value	235ppm~250ppm		
	-pressure	7.3~7.5		
	-hardness preparation	240Kpa~250Kpa		
Detergent:		reference detergent	base detergent IEC-A*	sodium perborate
	-type			TAED
	-amount	124	95.48	24.8
	-batch/production date		296-779	SPB4.217-338
	-supplier		WfK	WfK
Textiles:	-conditioned mass in kg	7.0kg		
	-average age (number of uses)	31		
	-supplier	WfK		
	-composition (number of pieces)	2sheet,12pillowcases,25towels		
Test strips:	-batch number	108-31		
	-supplier	EMPA		
	-number of strips	partial lod: 4 full load: 7		
	-deadline of use	2011-9-31		

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Energy labelling for electrical clothes washing machines for household use

Cycle data, parameters and results

Cycle:		1	2	3	4	5	6	7	Average	standard deviation
data of cycle	yr.m.d	2011.04.11	2011.04.11	2011.04.12	2011.04.12	2011.04.13	2011.04.14	2011.04.15		
Base Load		Part A	Part B	Part B	Part A	Full load	Full load	Full load		
Measured Programme		cotton 40℃	cotton60℃	cotton40℃	cotton 60℃	cotton60℃				
Main wash cold water consumption	L	12.5	13.0	13.2	12.5	18.8	18.7	18.9	15.4	3.218
Main wash hot water consumption	L									
Total hot water onsumption	L									
Total cold water onsumption	L	41.0	41.6	39.7	39.9	47.6	41.3	45.1	42.3	2.933
Total water onsumption	L	41.0	41.6	39.7	39.9	47.6	41.3	45.1	42.3	2.933
Unit water consumption	L/kg	5.9	5.9	5.7	5.7	6.8	5.9	6.4	6.0	0.419
Annual water consumption for total 220 cycles (AWc)	L	9309								
Main wash duration	min	116	137	117	137	137	138	138	131	10.212
Heating time	min	12	20	12	20	21	21	21	18	4.220
Programme time	min	166	188	166	188	187	185	187	181	10.296
Electrical energy consumption (for programme)	kWh	0.624	0.897	0.623	0.880	0.858	0.879	0.880	0.81	0.125
Total cold water correction energy	kWh	0.013	0.013	0.017	0.015	0.025	0.017	0.019	0.017	0.004
Total hot water correction energy	kWh	N/A								
Total energy consumption (Wt)	kWh	0.637	0.910	0.640	0.895	0.883	0.896	0.899	0.823	0.126
Unit energy consumption	Kwh/kg	0.091	0.130	0.091	0.128	0.126	0.128	0.128	0.118	0.018

Energy consumption for single Low power mode in total 220 cycles

Energy consumption for (LU)	=	0.05	kwh
Energy consumption for (LO)	=	1.61	kwh
Energy consumption for (O)	=	1.63	kwh

Energy consumption for total 220 cycles

Energy consumption for programme running	=Wt*220	181.04	kwh
Annual energy consumption for total 220 cycles (AEc)	$AEc = W_{total} \times 220 + \left\{ \frac{P_{LO}}{1.000} \times \left[\frac{525.600 - ((t_r + t_{mLU}) \times 220)}{2 \times 60} \right] \right\} + \left\{ \frac{P_{LO}}{1.000} \times \left[\frac{525.600 - ((t_r + t_{mLU}) \times 220)}{2 \times 60} \right] \right\} + \left[\frac{P_{LU}}{1.000} \times \frac{(t_{mLU} \times 220)}{60} \right]$		
	AEc	=	184.33 kwh
Energy consumption for SAEc	SAEc	=	380.70 kwh
Energy Efficiency Index	EEl	=	48.4 %

Energy Efficiency Class

A+++

A++

A+

A

B

C

D

Front Load Washing Machine

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Energy labelling for electrical clothes washing machines for household use**Summary of Test Results**

Capacity (cotton)	kg	5.0
Energy Efficiency Index	%	53.46
	Class	A+
Annual Electric Energy Consumption	kwh/year	146.55
Low power mode Energy Consumption	Kwh/year	6.71
Total Annual Energy Consumption	Kwh/year	153.26
Washing Performance		1.02
Spin Drying Performance	%	58%
	Class	C
Spin speed	rpm	1181
Annual water Consumption	L/year	7370.0
Main Wash	L	10.9
Length of cycle	min	152

Test Conditions

Installation:	in accordance with manufacturer's instruction			
Programme controller:	electronic			
Tested programme:	Cotton, standard, 40°C/60°C, 1200rpm, intense, display2:28/2:48			
Supply voltage during test:	230 V ± 1 %			
THD for power supply	0.66%			
Supply frequency during test:	50 Hz ± 1 %			
Measured room temperature:	22 °C ~ 24 °C			
Supply water:	-measured temperature	16 °C ~ 16 °C		
	-measured hardness	235 ppm ~ 255 ppm		
	-measured pH-value	7.3~7.6		
	-pressure	240Kpa		
	-hardness preparation	IEC 60734 type B		
Detergent:	-type	reference detergent	IEC-A*	sodium perborate TAED
	-amount	100 g	77.0 g	20.0 g 3.0 g
	-batch/production date		167-513(7-2010)	SPB4.227-564 NO23576003
	-supplier		WfK	WfK WfK
Textiles:	-conditioned mass in kg	5.0kg		
	-average age (number of uses)	39		
	-supplier	WfK		
	-composition (number of pieces)	2sheet,6pillowcases,20towels		
Test strips:	-batch number	108-31		
	-supplier	EMPA		
	-number of strips	partial lod: 3 full load: 5		

Energy labelling for electrical clothes washing machines for household use

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Cycle data, parameters and results

Cycle:		1	2	3	4	5	6	7	Average	standard deviation
data of cycle	yr.m.d	2011-4-18	2011-4-18	2011-4-19	2011-4-19	2011-4-20	2011-4-21	2011-4-22		
Base Load		Part A	Part B	Part B	Part A	Full load	Full load	Full load		
Measured Programme		cotton 40°C	cotton60°C	cotton40°C	cotton60°C	cotton60°C				
Main wash cold water consumption	L	9.2	9.1	8.9	9.6	13.3	13.2	13.3	10.9	2.184
Main wash hot water consumption	L									
Total hot water onsumption	L									
Total cold water onsumption	L	27.7	27.6	27.2	29.6	41.7	39.9	40.8	33.5	6.890
Total water onsumption	L	27.7	27.6	27.2	29.6	41.7	39.9	40.8	33.5	6.890
Unit water consumption	L/kg	5.5	5.5	5.4	5.9	8.3	8.0	8.2	6.7	1.378
Annual water consumption for total 220 cycles (AWc)	L	7370								
Heating time	min	10	17	10	18	18	18	18	16	3.823
Main wash duration	min	125	144	124	147	144	144	145	139	9.967
Programme time	min	152	171	151	174	73	173	173	152	36.441
Electrical energy consumption (for programme)	kWh	0.505	0.712	0.505	0.725	0.721	0.715	0.718	0.66	0.104
Total cold water correction energy	kWh	0.006	0.007	0.008	0.009	0.009	0.011	0.011	0.009	0.002
Total hot water correction energy	kWh	N/A								
Total energy consumption (Wt)	kWh	0.511	0.719	0.513	0.734	0.730	0.726	0.729	0.666	0.105
Unit energy consumption	Kwh/kg	0.102	0.144	0.103	0.147	0.146	0.145	0.146	0.133	0.021

Energy consumption for single Low power mode in total 220 cycles

Energy consumption for (LU)	=	0.09	kwh
Energy consumption for (LO)	=	3.30	kwh
Energy consumption for (O)	=	3.32	kwh

Energy consumption for total 220 cycles

Energy consumption for programme running	=Wt*220	146.55	kwh
Annual energy consumption for total 220 cycles (AEc)	$AE_C = W_{total} \times 220 + \left\{ \frac{P_O}{1.000} \times \left[\frac{525.600 - ((t_r + t_{ml,U}) \times 220)}{2 \times 60} \right] \right\} + \left\{ \frac{P_{LO}}{1.000} \times \left[\frac{525.600 - ((t_r + t_{ml,U}) \times 220)}{2 \times 60} \right] \right\} + \left[\frac{P_{LU}}{1.000} \times \frac{(t_{ml,U} \times 220)}{60} \right]$		
	AEc	=	153.26 kwh
Energy consumption for SAEc	SAEc	=	286.70 kwh
Energy Efficiency Index	EEl	=	53.5 %
Energy Efficiency Class	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px 10px;">A+++</div> <div style="border: 1px solid black; padding: 2px 10px;">A++</div> <div style="border: 1px solid black; padding: 2px 10px;">A+</div> <div style="border: 1px solid black; padding: 2px 10px;">A</div> </div>		
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px 10px;">B</div> <div style="border: 1px solid black; padding: 2px 10px;">C</div> <div style="border: 1px solid black; padding: 2px 10px;">D</div> <div style="border: 1px solid black; padding: 2px 10px; background-color: #ccc;">X</div> </div>		

Chapter 3 Matters needing attention

3-1. Safety

BEFORE SWITCHING THE APPLIANCE ON FOR THE FIRST TIME

DO ...

- ... Make sure that the transportation bolt(T1,T2&T3) are removed.
- ... Use a separate earthed socket for the power supply.
- ... Make sure that the plug is accessible.
- ... Hold the plug and not the electric cable when unplugging the power supply.
- ... Make sure that the fuses in the power circuit are rated for 13A.
- ... Keep away from heat sources and direct sun light to prevent plastic and rubber components from aging.
- ... Make sure that the power cord is not caught under or in the appliance and avoid damage to the power cable.
- ... Check that hose joints and connections are firm and no water can leak. If joints are loose or there is leakage, turn off the water supply and refix. Do not use the washing machine until the hoses are properly fixed.

☐ DO NOT ...

- ☐ ... Touch or use the appliance when barefoot or with wet or damp hands or feet.
- ☐ ... Use flammable detergent or dry cleaning agent.
- ☐ ... Use any flammable sprays in close vicinity to the appliance.
- ☐ ... Remove or insert the plug in the presence of flammable gas.
- ☐ ... Allow children or infirm persons to play with the appliance or packing materials.
- ☐ ... Install the appliance outdoors in a damp place, or in an area which may be prone to water leaks such as under or near a sink unit. In the event of a water leak allow the machine to dry naturally.
- ☐ ... Place the washing machine directly on a carpet, or close to a wall or furniture.

DURING DAILY USE OF THE APPLIANCE

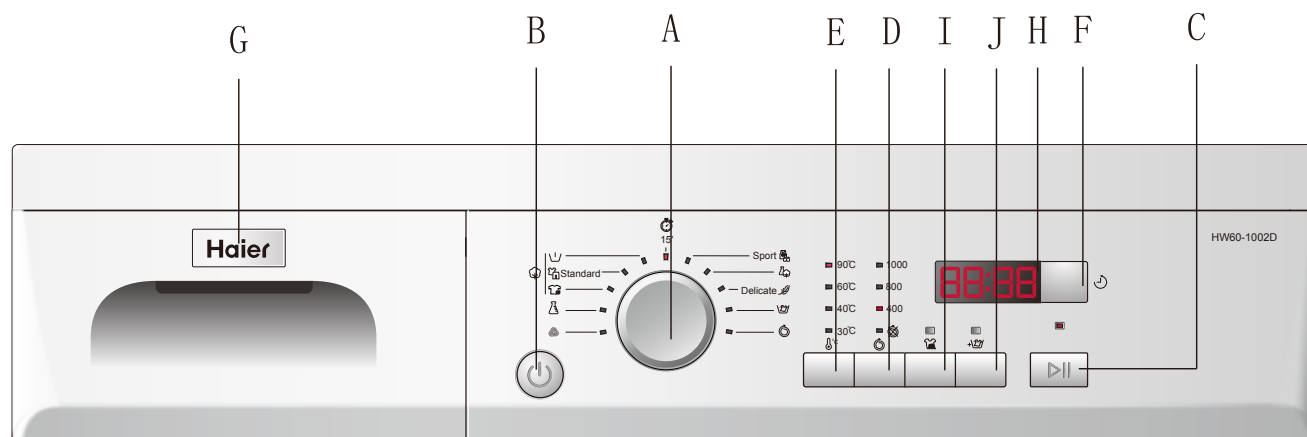
DO ...

- ... Pull up zips and fix loose threads to prevent the items from being entangled. If necessary, put small items into a net bag or pillow.
- ... Turn off the machine after each wash program and switch it off at the mains to save electricity and for safety. Wipe clean the lower part of the porthole.
- ... Keep the door slightly open when the washing machine is not in use to prevent formation of odours.
- ... Let the power cord be replaced by the manufacturer, his service agent or other accordingly qualified persons, in case it is damaged.
- ... Ensure that the appliance is not used by persons(including children) with reduced physical, sensory or mental capabilities, lack of experience and knowledge without supervision or instruction by a person responsible for their safety.
- ... Supervise children to ensure that they do not play with the appliance.

☐ DO NOT ...

- ☐ ... Touch the washer door during the washing process - it gets hot!
- ☐ ... Place heavy objects or sources of heat or damp on top of the appliance.
- ☐ ... Hot wash foam rubber or sponge-like materials.
- ☐ ... Open the detergent distribution drawer during the wash cycle.
- ☐ ... Force the washer door open. The door is fitted with a self-lock device and will open shortly after the washing procedure is ended.
- ☐ ... Open the washer door if the water level is visibly over the porthole.
- ☐ ... Cover the washing machine with plastic cover so that inside dampness cannot be kept in.

Chapter 4 Operational Guidance



- A** Program knob **B** Power Switch **C** Start/Pause button
D Spinning Speed Setting button **E** Washing temperature button **F** Delay Button
G Detergent distribution drawer **H** Display **I** Intense button **J** Extra rinse button

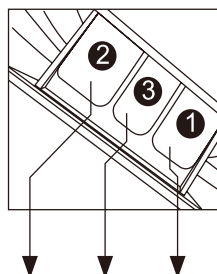
- A** ↪ Program knob _ By turning the knob clockwise/counterclockwise, the required program can be selected. There are 11 programs available. After a program is selected, the corresponding light will go on.
- B** ↪ Power Switch _ Press this button to switch on the washing machine. Press it again to switch it off.
- C** ↪ Start/Pause Button _ When the washing machine is connected to the power socket and a program is selected, lightly touch this button to start operation. During a wash cycle, touch it lightly, operation will stop and the digits on the screen start blinking. Touch it again to resume operation. To cancel a wash program during a wash cycle, touch this button, when the digits on the screen start blinking, press the Power switch, the program will be cancelled.
- D** ↪ Spinning Speed Setting Button _ Touch this button lightly to select the desired speed. When a speed is set, it will be displayed on the indicator.
Note: Different water temperatures and spinning speeds can be set for different laundries. Wash using the default settings if there is no special requirement.
- E** ↪ Washing temperature button _ Touch this button lightly, the washing temperature will be displayed on the indicator. Select a temperature according to the type of laundry.

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- | | | |
|---|---------------------------------|--|
| F | ↪ Delay Button | <p>_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).</p> <p>Note: The delay time must be longer than the program time; otherwise, the washing machine will start the wash program directly.</p> |
| G | ↪ Detergent distribution drawer | <p>_Open the drawer, three compartments can be seen:</p> <p>Compartment 1: Prewash detergent</p> <p>Compartment 2: Detergent for programs 1 to 10.</p> <p>Compartment 3: Softener, conditioning agent, perfume, etc.</p> |
| H | ↪ Display | <p>_Information as remaining wash time and error messages will be shown here.</p> <p>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 maybe adjusted accordingly. When the laundry is not balanced during spinning, the time may be automatically prolonged. These are normal phenomena.</p> |
| I | ↪ Intense button | <p>_If the laundry is heavily soiled, press this button before starting the program. When the button is pressed, the washing time increases.</p> |
| J | ↪ Extra rinse button | <p>_Press this button, the washing machine will perform additional rinses. Press the button once to select one additional rinse. The display will show "P-1". Press the button repeatedly and the screen will display "P-2" or "P-3", indicating two or three additional selected rinses. The "extra rinse light" is activated and flashes during the performance. "P-1/2/3" is displayed alternating with the remaining time. The light turns off and the display disappears when the extra rinse ends.</p> |

Chapter 5 Program Introduction

DETERGENT COMPARTMENTS



- 1 Detergent compartment for prewash mode
2 Detergent compartment
3 Compartment for softener and other additives

Preset spin speed

Program	Maximum Temperature	Preset	2	3	1	Recommended Laundry	HW70-1202D	HW50-1202D HW60-1202D	HW60-1002D
1 Wool	-- to 40 °C	30°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Woolen fabrics	400rpm	500rpm	400rpm
2 Synthetic	-- to 60 °C	40°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Slight-soil cotton, linen and synthetic fabrics	1000 rpm	1000 rpm	1000 rpm
3 Cotton Eco	-- to 90 °C	40°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cotton fabrics	1000 rpm	1000 rpm	1000 rpm
4 Cotton standard	-- to 90 °C	40°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cotton fabrics	1000 rpm	1000 rpm	1000 rpm
5 Prewash	-- to 90 °C	40°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Heavy soiling	1000 rpm	1000 rpm	1000 rpm
6 Quick	-- to 30 °C	30°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Slight-soiling	800 rpm	1000 rpm	1000 rpm
7 sport	-- to 40 °C	30°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sports wear	1000 rpm	1000 rpm	1000 rpm
8 Mix	-- to 60 °C	40°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cotton or synthetic	1000 rpm	1000 rpm	1000 rpm
9 Delicate	-- to 40 °C	30°C	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	easy wear abrasion fabric	1000 rpm	1000 rpm	1000 rpm
10 Rinse	--	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	/	1000 rpm	1200 rpm	1000 rpm
11 Spin	--	--	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/	1000 rpm	1200 rpm	1000 rpm

☒ Yes☒ No☐ Optional

Chapter 6 Washing Methods

6-1. Loading

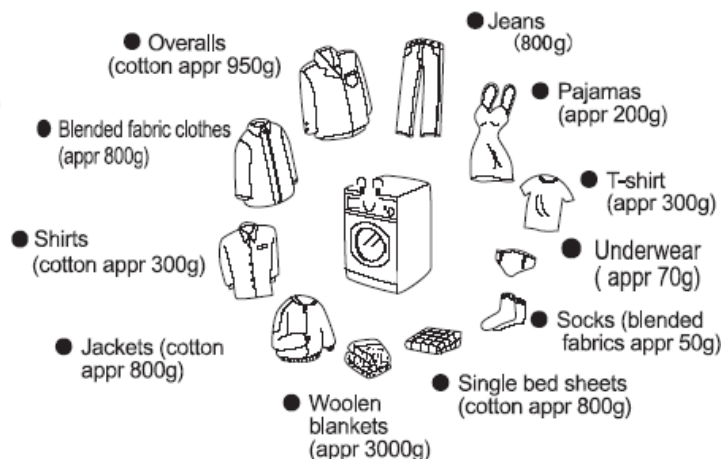
Open the door, put in the laundry piece by piece and then tightly close the door.

Notes:

- 1) When first using the washing machine, let it run unloaded for one program to prevent the laundry from being tainted by oil or dirty water from the washing machine.
- 2) Do not overload the washing machine.



Load Reference

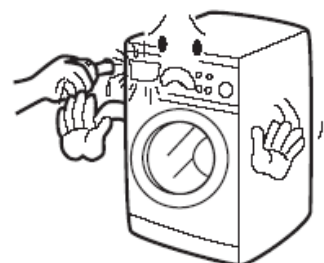


6-2. Adding detergent

Slide out the detergent drawer and put the required detergent and softening agent into the corresponding boxes. Push back the drawer gently.

Caution:

- 1) Do not add liquid detergent to compartment 1 and 2.
- 2) For prewashing program, detergent should be added to both compartments 1 and 2. For other programs, do not add detergent to compartment 1.
- 3) Do not overuse softener; otherwise, it will damage the artificial fibers.



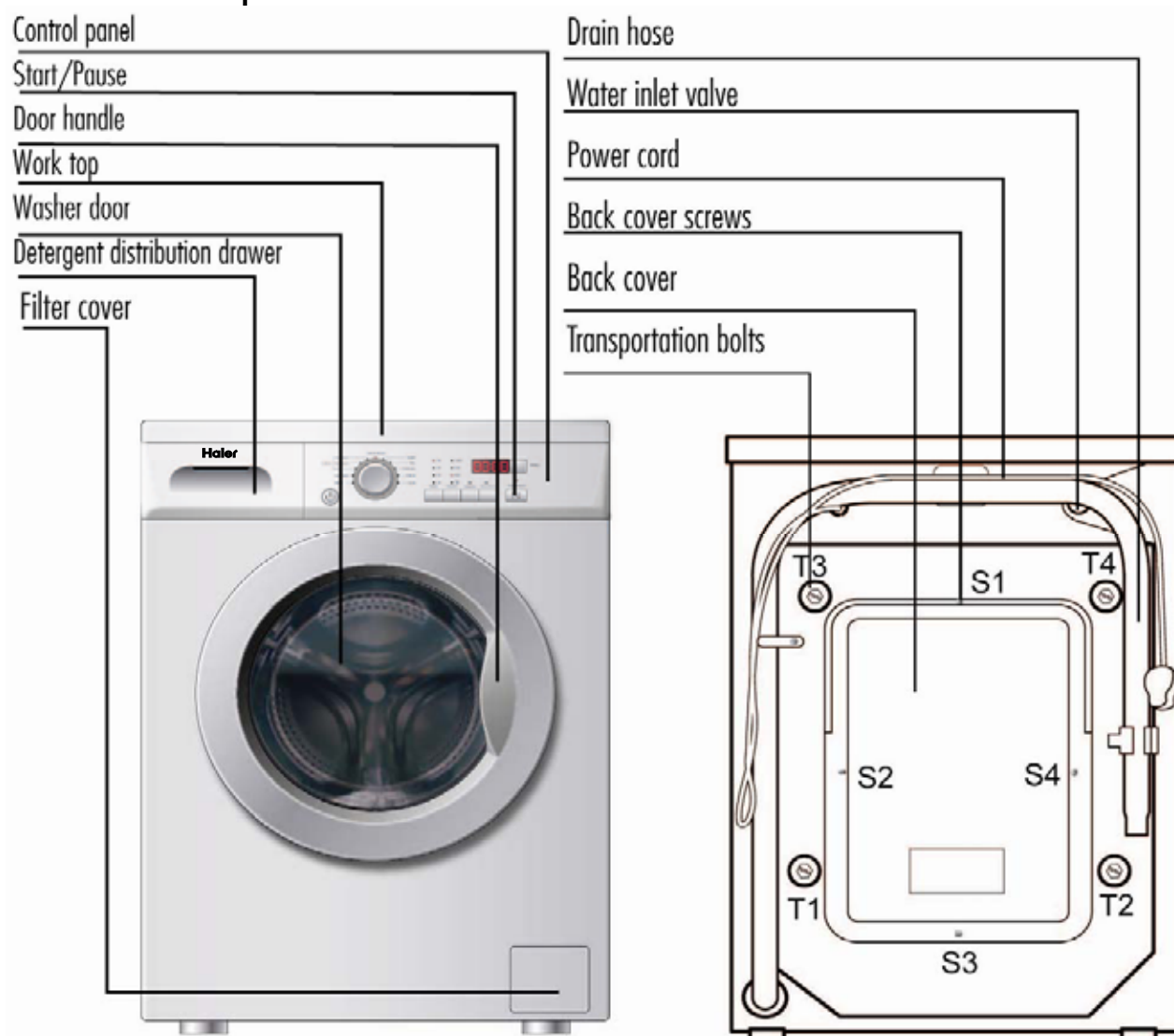
6-3. Selecting washing program

To get the best washing effect, an appropriate washing program should be selected according to the laundry type.

HW70-1202D HW60-1202D
HW60-1002D HW50-1202D

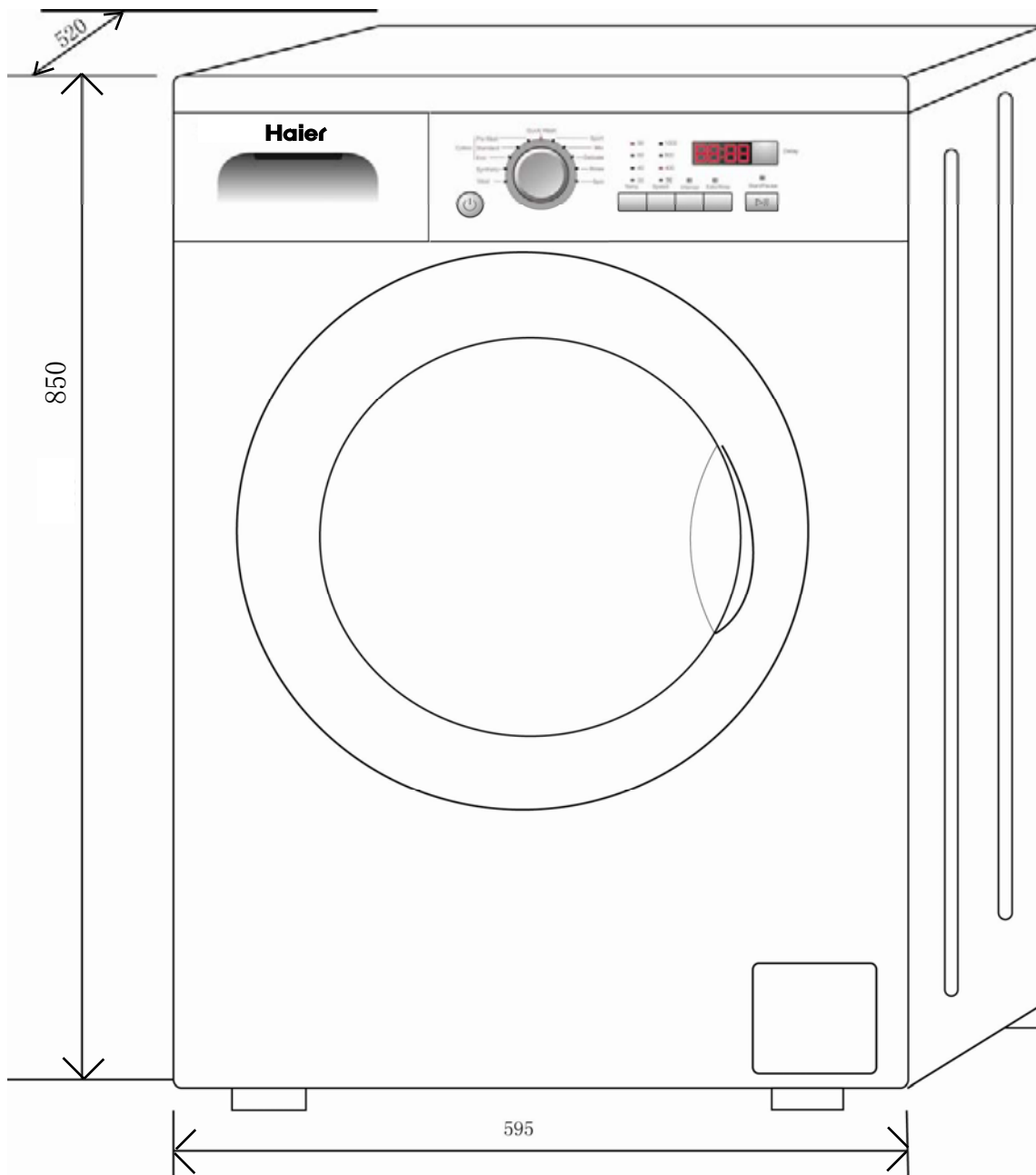
Chapter 7 Appearance brief introduction

7-1. Name of parts



HW70-1202D HW60-1202D
HW60-1002D HW50-1202D

7-2. Net dimension



HW60-1202D HW60-1002D

(height :850 X width:595X depth:520)mm

HW50-1202D

(height:850 X width:595X depth:450)mm

HW70-1202D

(height:850X width:595 X depth:600)mm

Chapter 8 Disassembly and Installation

8-1. 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

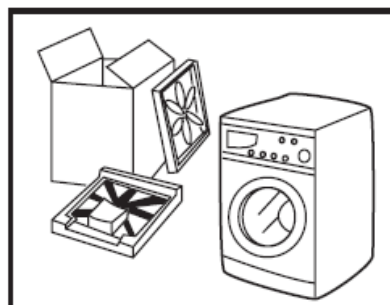


Fig.1

8-2. 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 four 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)

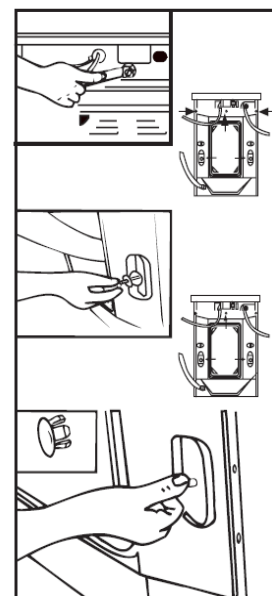


Fig. 2

8-3. 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.

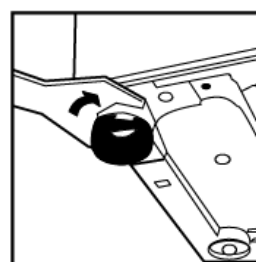


Fig.3

INLET HOSE

1. Connect the nut on the inlet hose to the connector on the water valve.
2. Attache the hose to the cold water tap.

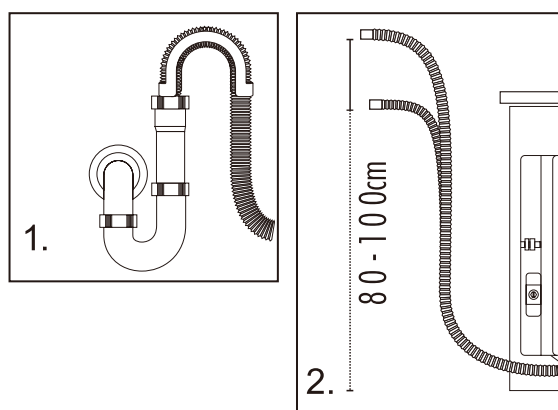
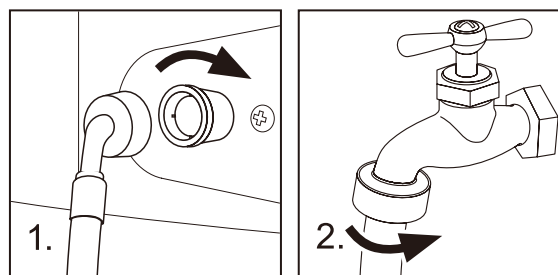
Do not connect to the hot water supply

Note: Connect to the water supply using new hose sets, old hose-sets should not be reused.

DRAIN HOSE

1. Use the drain hose bracket to secure the drain hose and prevent the outflow of water. Don't extend the length of the drain hose; if an extended hose is required, please consult an engineer.
2. The height of the drainage outlet must be 80-100 cm. Fix the drain hose to the clip at the back of the washing machine to prevent it from dropping off.

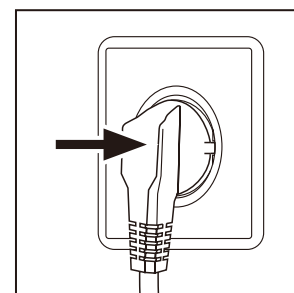
Note: The drain hose should not be submerged in water and should be securely fixed and leak-free. If the drain hose is placed on the ground or if the pipe is at a height of less than 80cm, the washing machine will continuously drain while being filled (self-siphoning).



CONTINENTAL WIRING

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 15 A).
- The voltage should be 220-240V 50~Hz
- The power outlet should be capable of accepting the washing machine plug.
- Connect the machine to an earthed socket outlet.

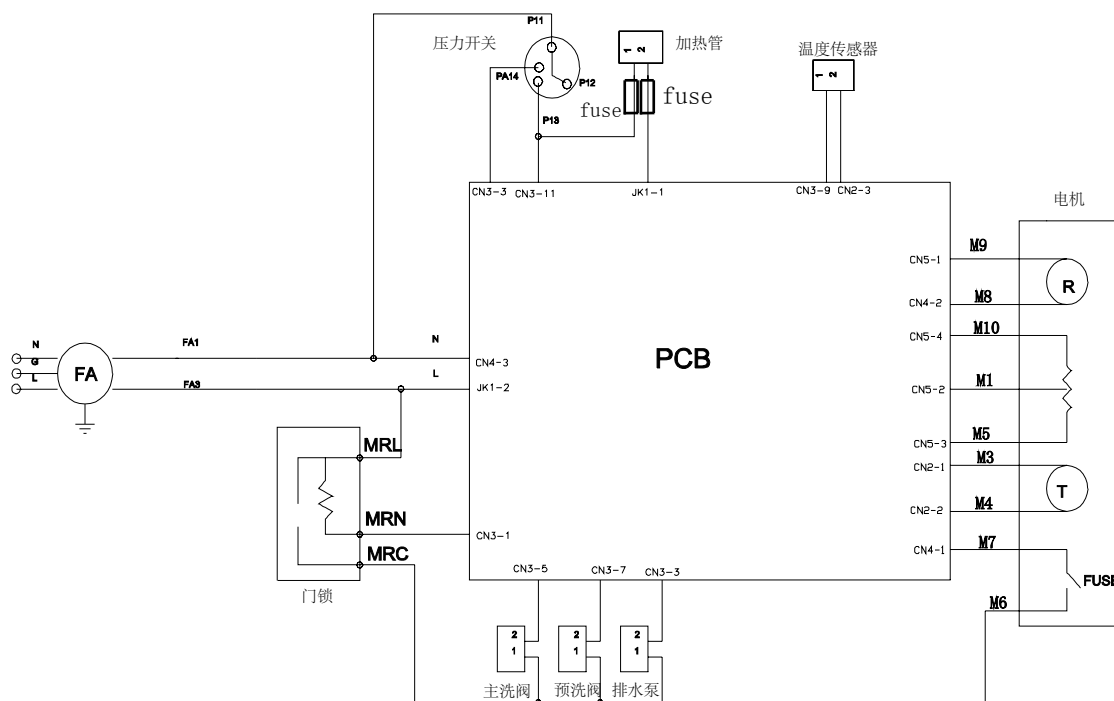


HW70-1202D HW60-1202D
HW60-1002D HW50-1202D

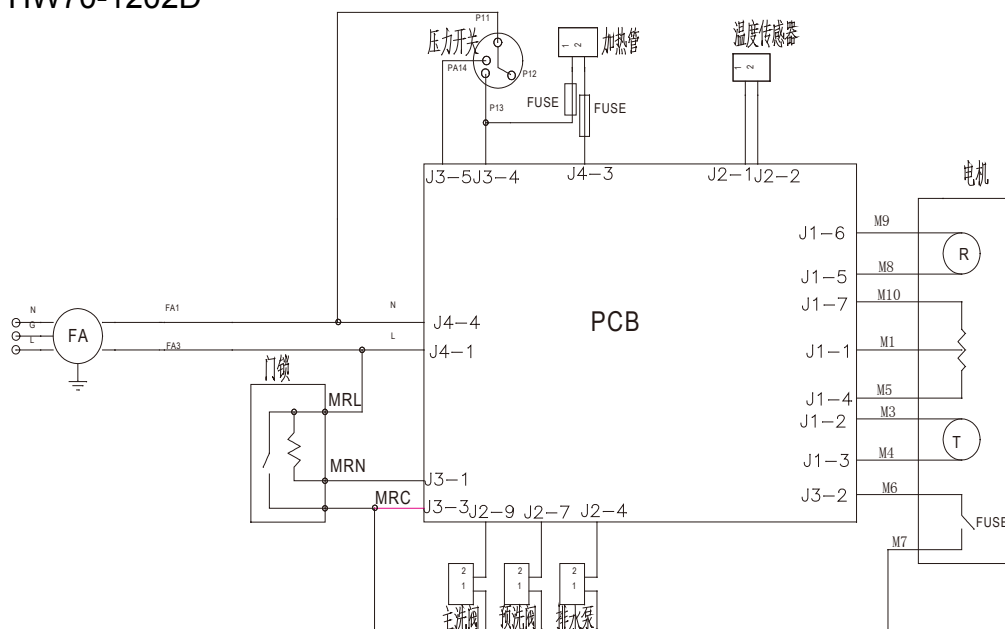
Chapter 9 Wiring circuit and Self check

9-1. Wiring circuit

HW60-1202D HW60-1002D HW50-1202D



HW70-1202D



9-2. Self check

Self check

1.How to start

Press the “speed” and “intense” button at the same time, then put the plug in to the socket, wait for about 3 seconds, the LED will display “TEST” and the model of the machine ,then you can press “start/pause” to let washing machine start test function.

2. Test item

- 1) when the door switch is closed for three 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 prewash valve allows water to let in for 3 seconds, 77:77 will be displayed.
- 4) when the softy water valve allows water to let in for 3 seconds, 77:77 will be displayed.
- 5) when the main wash valve, the prewash valve and also the softy water valve allow water to let in for 3 seconds at the same time, 77:77 will be displayed.
- 6) Heater runs for ten seconds, 66:66 will be displayed.
- 7) the drain pump runs for about 1 mins, 55:55 will be displayed
- 8) the motor runs for 10 seconds with the spin speed 400rpm, then for ten seconds with the spin speed 1000rpm, 44:44 will be displayed

Model selection

- 1.Press the extra rinse button and then put the plug in to the socket at the same time for 4 seconds, and it will enter the model-selection mode.
- 2.The default display shows 1060. Press the speed button to choose 1060/1050/0960/0950/0860/0850/0760/0750/0660/0650/1460/1450/1260/1250 till the needed model.Then press the temperature key and the model can be stored. The model can not be changed after storage.
- 3.If you want to change the model again after storage, you can cut off the NTC and do the cycle adjustment.
- 4.Model HW60-1202D you should choose 1260
Model HW60-1002D you should choose 1060
Model HW50-1202D you should choose 1250
Model HW70-1202D you should choose 1270
5. Press On/Off button gently for 2 seconds to switch off the machine as buttons are soft touch sensitive.

HW70-1202D HW60-1202D
HW60-1002D HW50-1202D

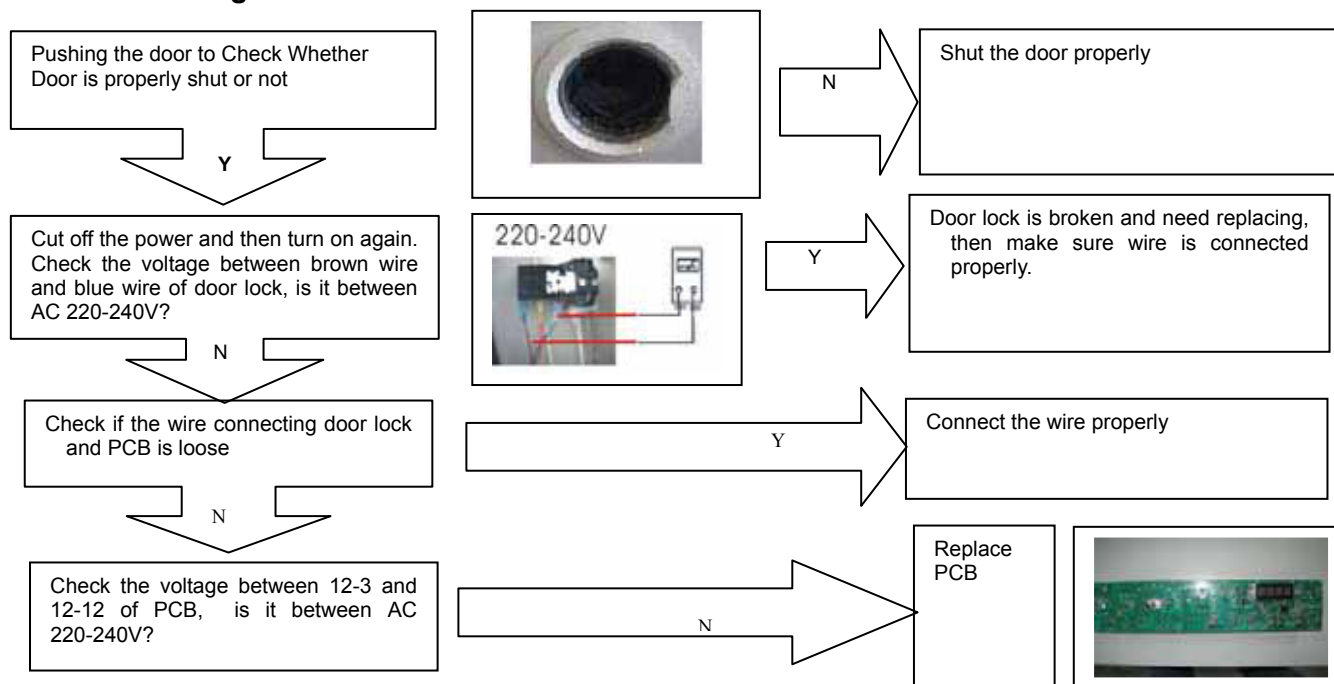
Chapter 10 Error Display and troubleshooting

10-1. Error Display



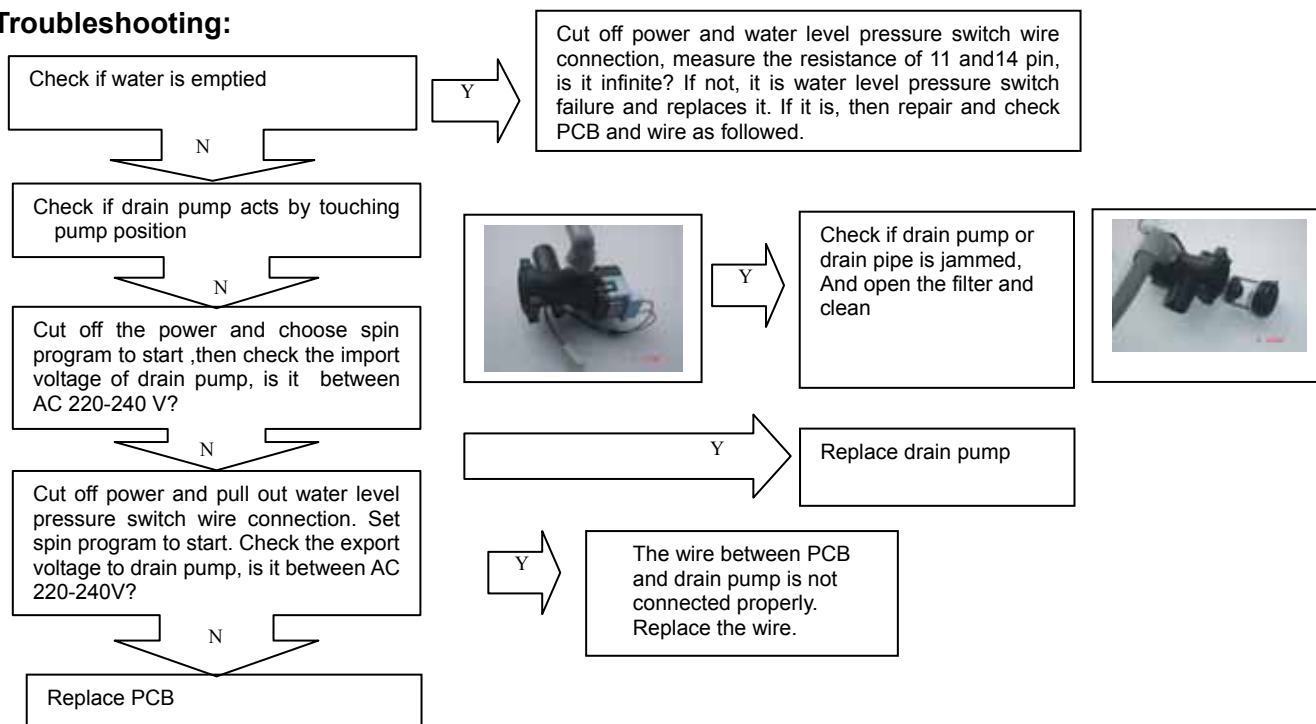
Error message: Door is not properly shut 20s after program is started.

Troubleshooting:



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

Troubleshooting:

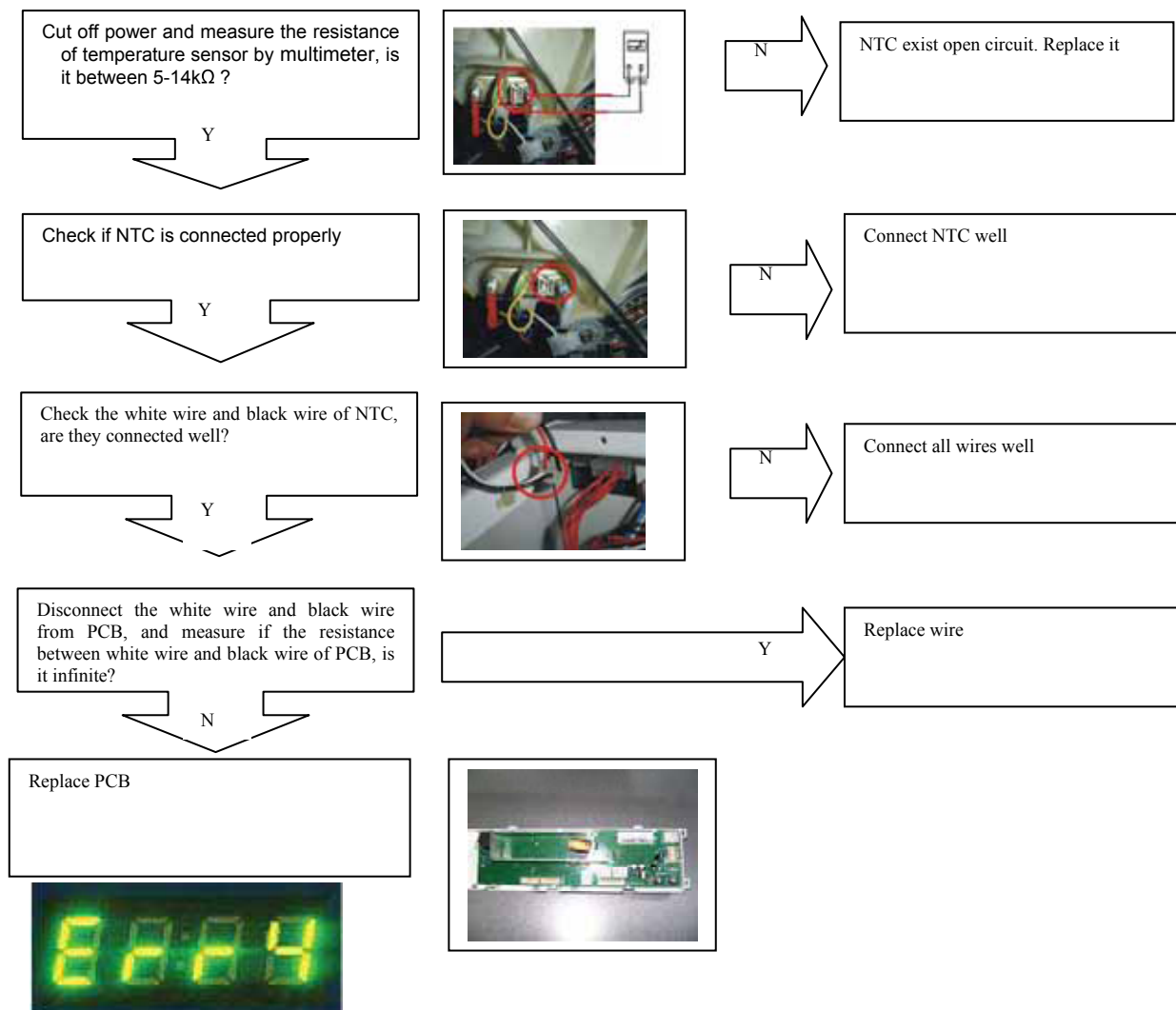


HW70-1202D HW60-1202D
HW60-1002D HW50-1202D



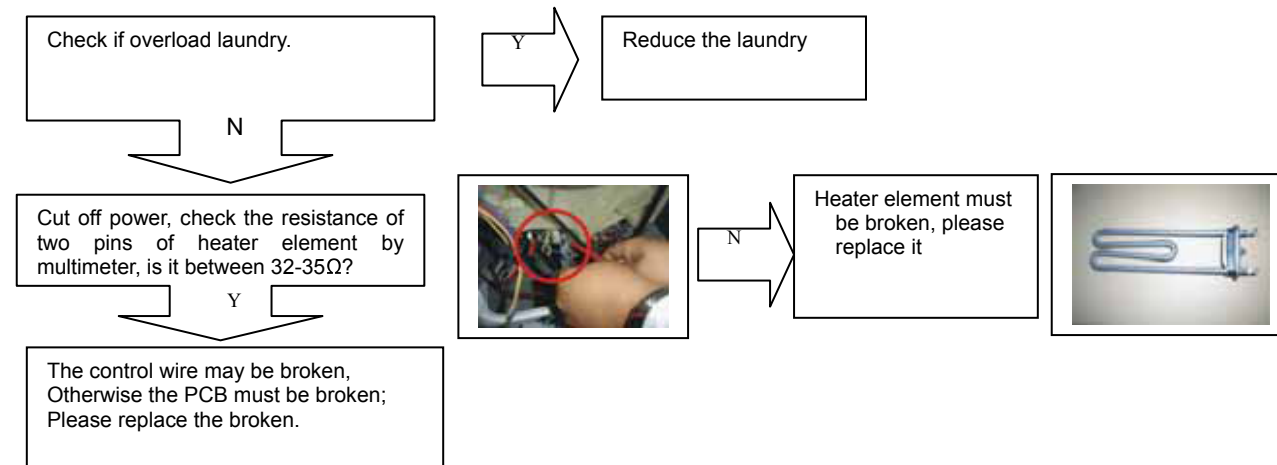
Error message:Temperature sensor is not properly connected or damaged (display at the end of a program).

Troubleshooting:



Error message:The heater may be broken

Troubleshooting:

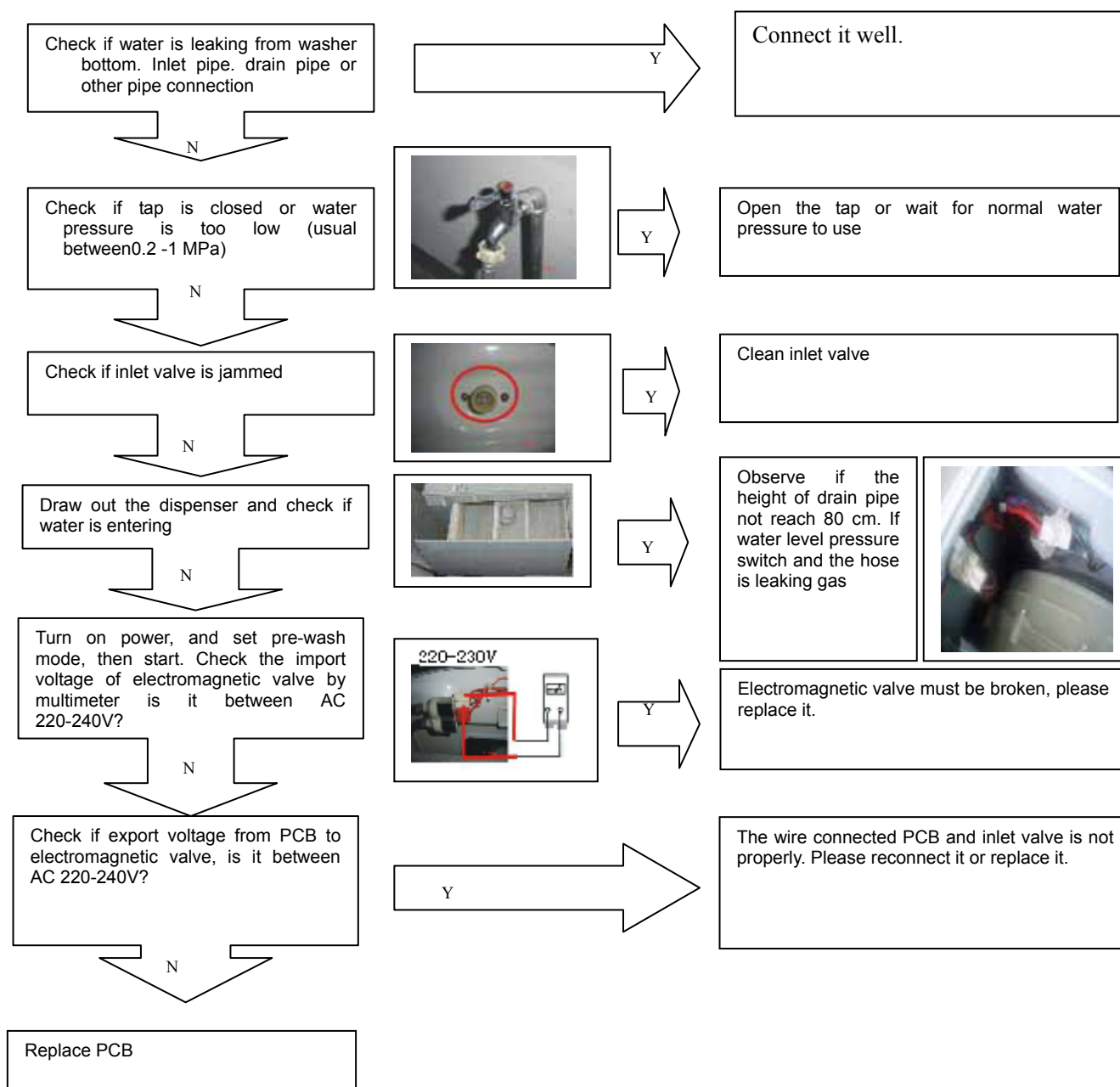


HW70-1202D HW60-1202D
HW60-1002D HW50-1202D



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

Troubleshooting:

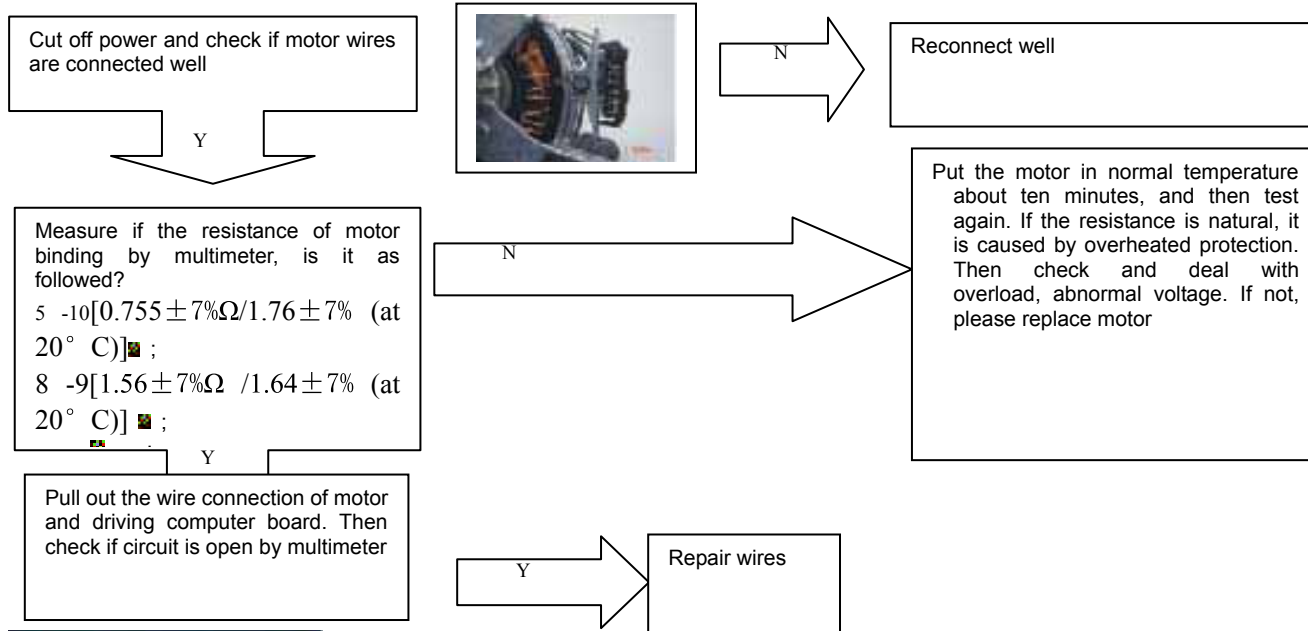


HW70-1202D HW60-1202D
HW60-1002D HW50-1202D



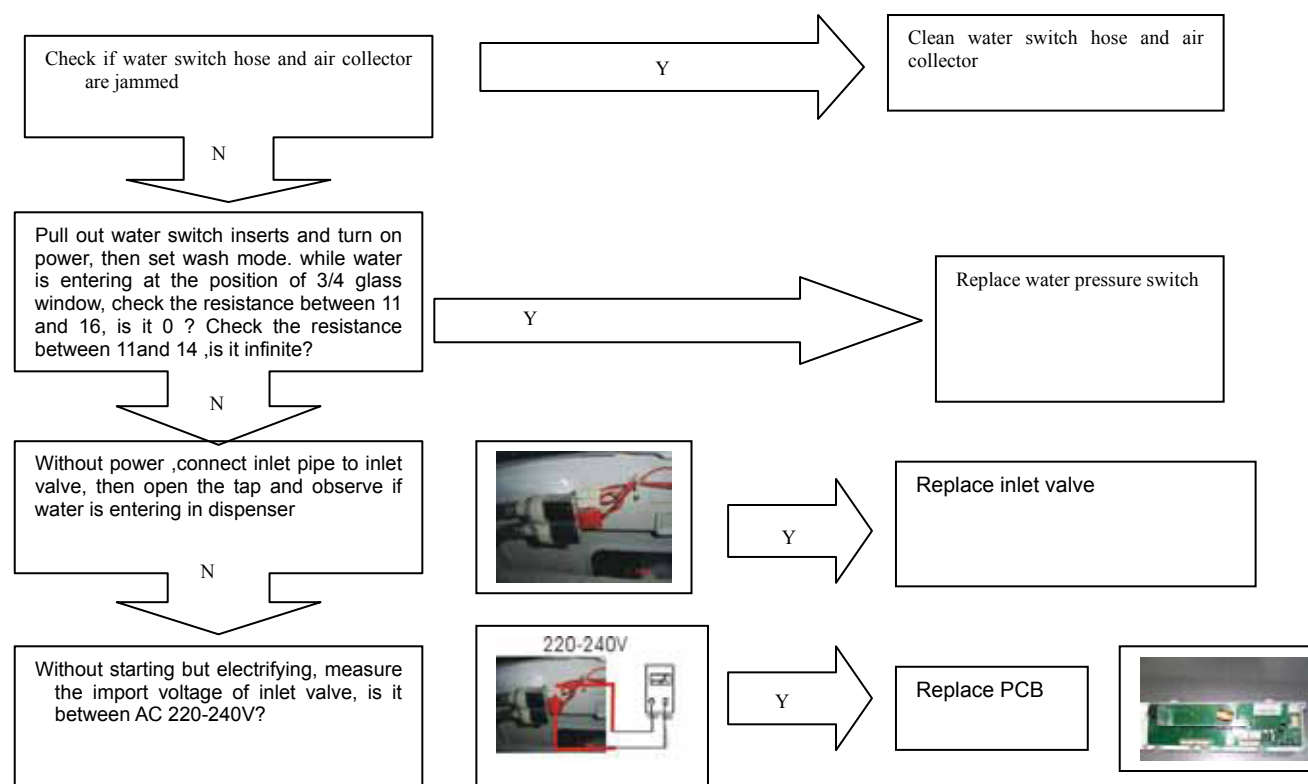
Error message. Motor overheat protection or is damaged.

Troubleshooting:



Error message. Water level exceeds protection value.

Troubleshooting:

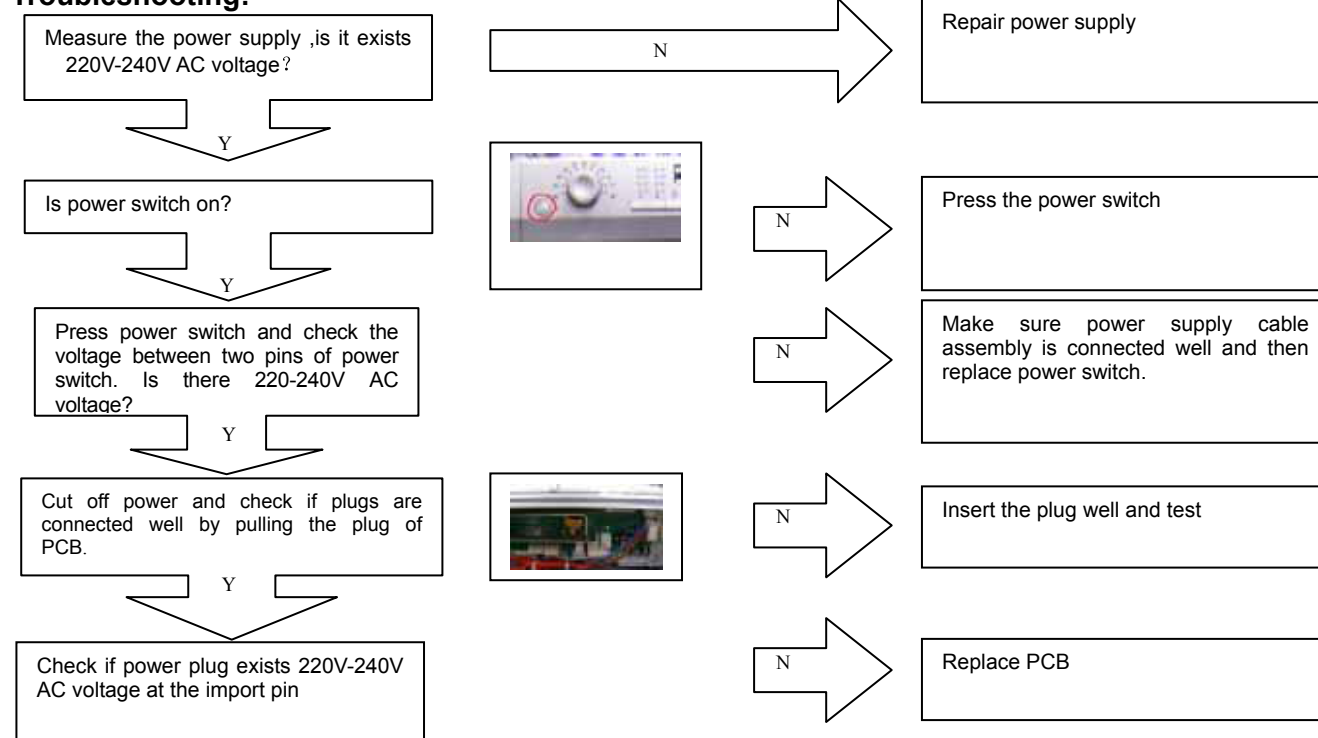


HW70-1202D HW60-1202D
HW60-1002D HW50-1202D

10-2. Examination & Troubleshooting

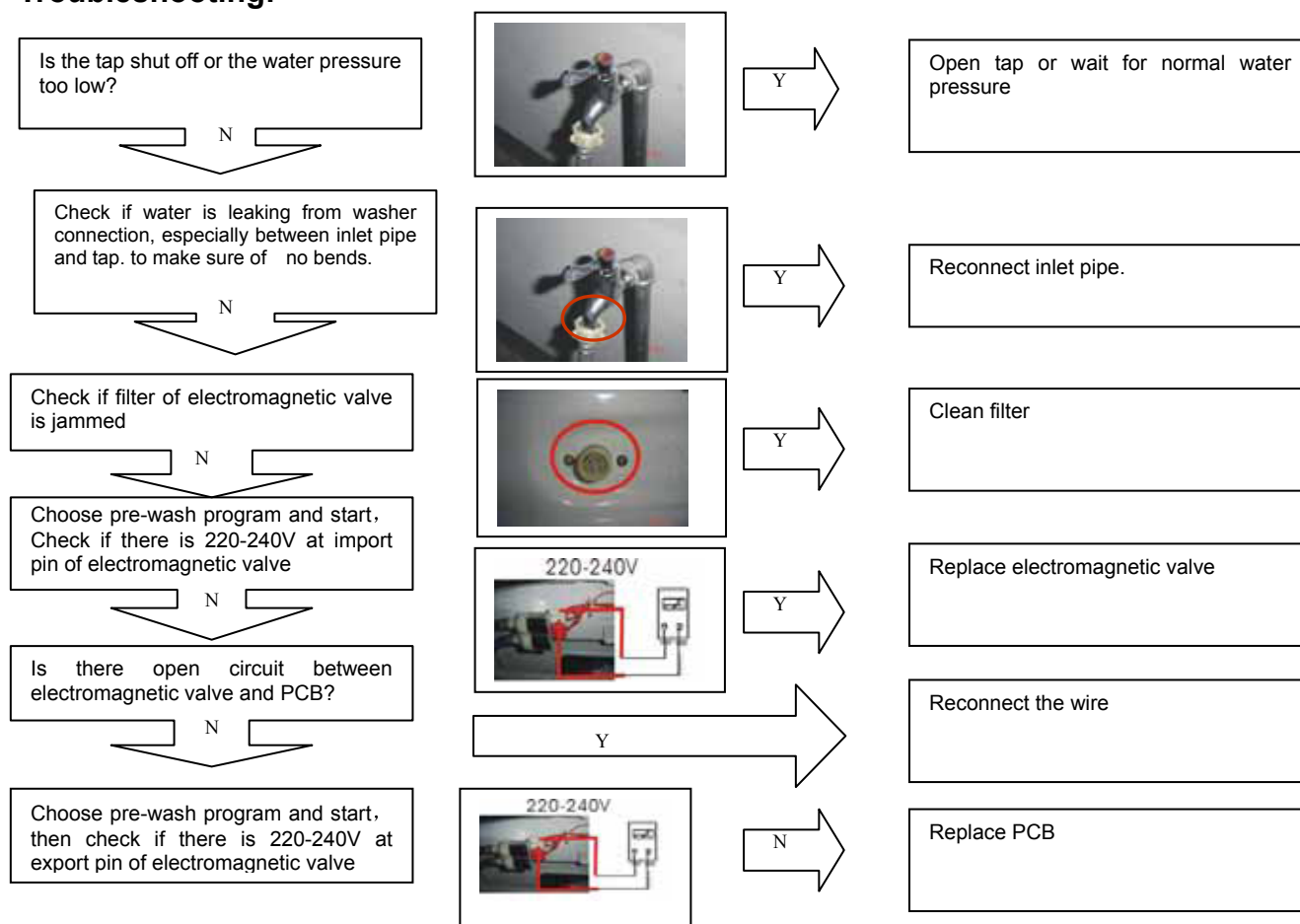
10-2-1. Display nothing

Troubleshooting:



10-2-2. No water inletting

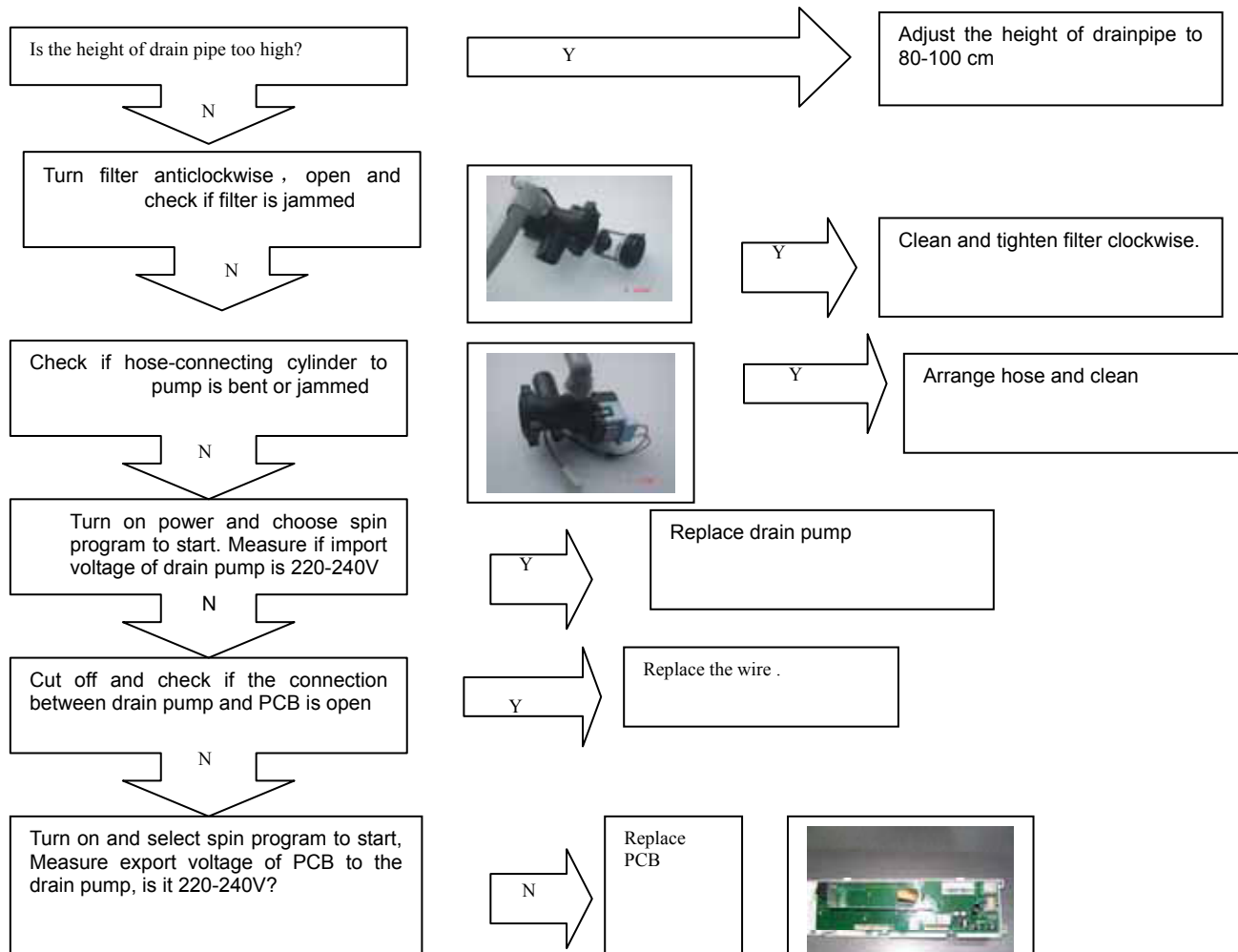
Troubleshooting:



HW70-1202D HW60-1202D
HW60-1002D HW50-1202D

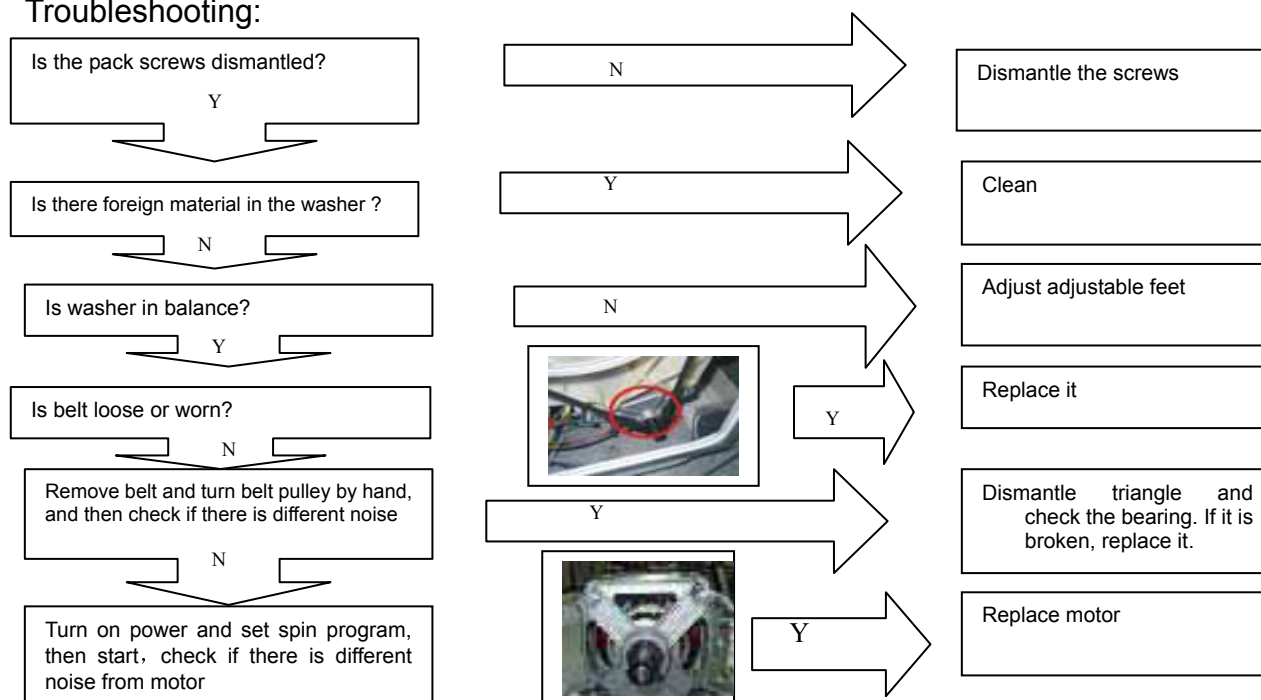
10-2-3. No draining

Troubleshooting:



10-2-4. Abnormal noise and vibration

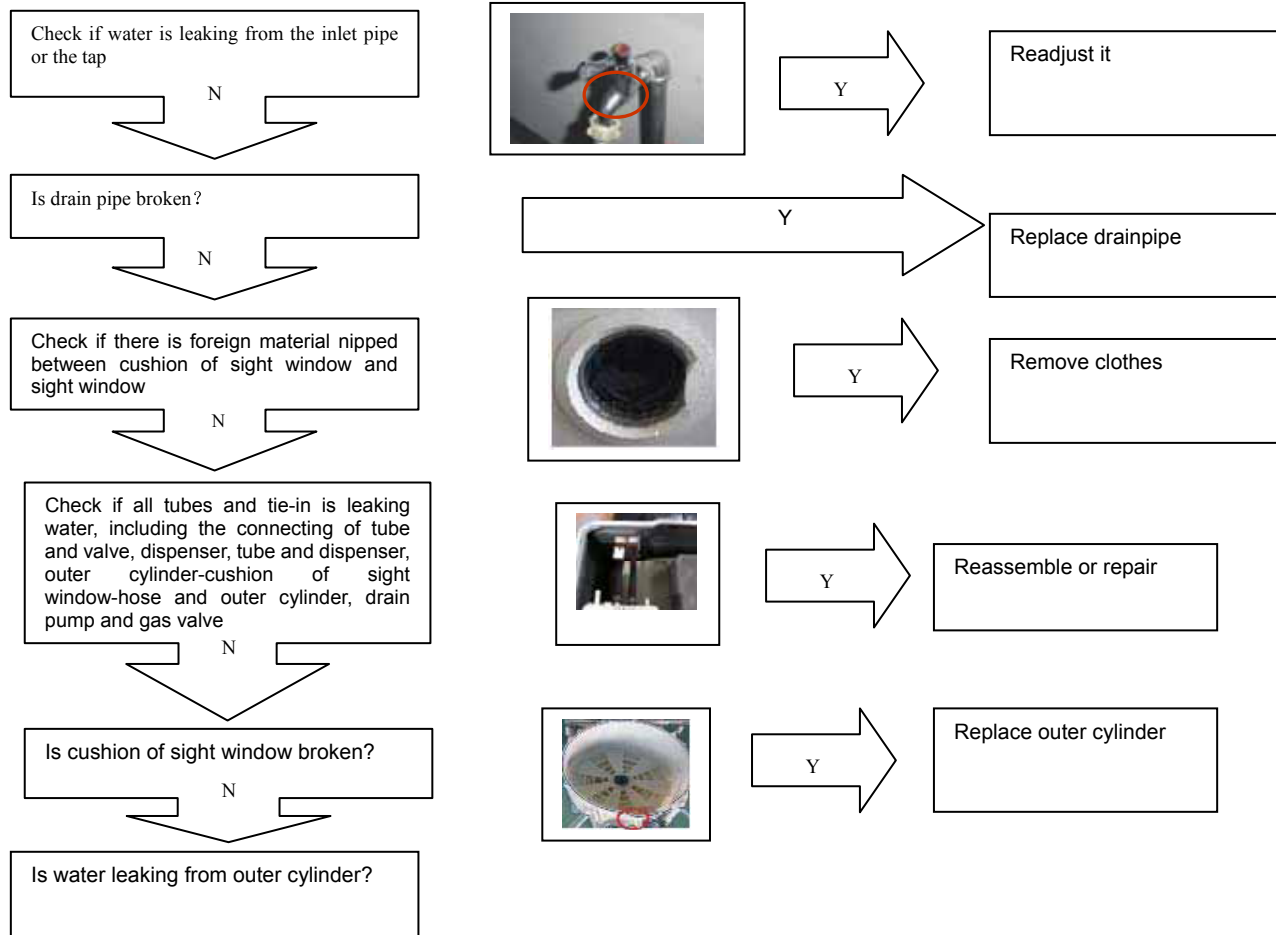
Troubleshooting:



10-2-5. Water leaking

HW70-1202D HW60-1202D
HW60-1002D HW50-1202D

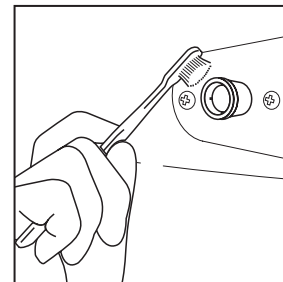
Troubleshooting:



Chapter 11 Maintenance

WATER INLET VALVE AND INLET VALVE FILTER

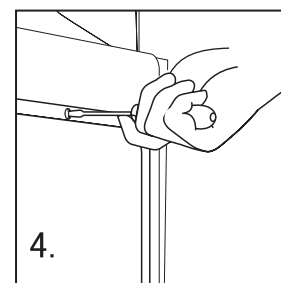
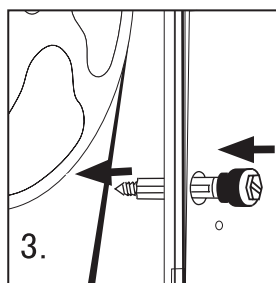
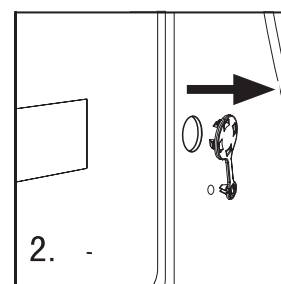
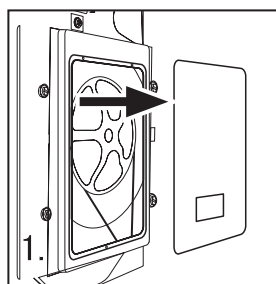
To prevent blockage to the water supply by ingress of foreign substances, clean the water inlet valve filter regularly.



MOVING THE MACHINE

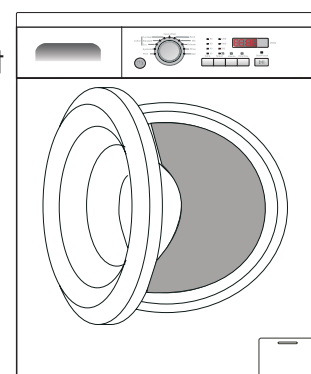
If the machine is to be moved to a different location, replace the transportation bolts removed before installation to prevent damage as shown below.

1. Remove the back cover
2. Remove the blanking plugs.
3. Insert the synthetic stabilisers and the transportation bolts and tighten the bolts with a spanner.
4. Replace the back cover.



LONG PERIODS OF DISUSE

If the washing machine is left idle for a long period, pull out the electrical plug and turn off the water supply. Open the washer door to prevent formation of moisture and odours. Let the door open while not used.



DISPLAY CODES AND SPECIAL FUNCTIONS

CODES	CAUSES	SOLUTIONS
Err1	→ Door is not properly shut.	_ Shut the door properly.
Err2	→ Drainage error, water not emptied within 6 minutes.	_ Clean the filter and check the drain hose for blockage. If error still exists, please contact the maintenance personnel.
Err3	→ Temperature sensor not properly connected or damaged.	_ Contact the maintenance personnel.
Err4	→ Heater error (Appears at the end of a cycle).	_ Contact the maintenance personnel.
Err5	→ Water level not met in 8 minutes. → The height of the drain hose is below 80 cm. → The drain hose is in water.	_ Make sure that tap is turned on, and water pressure is normal. If problem still exists, please contact the maintenance personnel. _ Install drain hose within 80-100 cm of height. _ Make sure the drain hose is not in water.
Err6	→ Motor error.	_ Contact the maintenance personnel.
Err7	→ Motor error.	_ Contact the maintenance personnel.
Err8	→ Water exceeds protective level.	_ Contact the maintenance personnel.
End	→ End of wash cycle.	
1:25	→ The remaining time is 1 hour 25 minutes.	
19:25	→ Status information: Preset time for delayed operation.	
Unb	After the last rinsing cycle finishes, spinning fails completely due to unbalance of the laundry.	Add clothes or run a spinning program again.

→ Control panel lock function: Press the "Delay" and the "Start/Pause" buttons simultaneously for 3 seconds after starting a program. It can no longer be changed by operating buttons or knobs. To unlock press the "Delay" and "Start/Pause" buttons again for 3 seconds. The display shows "CLOCK".

→ Power-off memory function: In case of abrupt power failure or the need to cut off the power during a program cycle, the present settings will be saved and the preset operation will resume when the power is on again.

→ To cancel a program

Press the "Start/Pause" button, then switch off the power and the program is automatically cancelled. Turn the program selector again to choose another program. If control panel lock function is of use, the program can not be cancelled.

Alarm sound can be cancelled if it is needed. Please follow the instruction as below:

Switch on the washing machine and turn the program knob to spin cycle, then press the "Delay" and "Extra rinse" button, hold on for 3 seconds. The "BEEP OFF" will be displayed on the screen which indicates that alarm sound has been canceled. To operate the above steps again so the alarm sound can be recovered and the display will show "BEEP ON".

TROUBLESHOOTING

The following circumstances do not constitute problems. Do not contact the Service Center until the problem has been confirmed.

PROBLEM	CAUSES	SOLUTIONS
Washing machine fails to operate.	<ul style="list-style-type: none"> → Poor connection to the power supply. → Power failure. → The washer door is not properly closed. → Machine has not been switched on. 	<ul style="list-style-type: none"> _ Check connection to the power supply. _ Check the power supply. _ Close the washer door properly. _ Make sure the machine is switched on.
Washing machine cannot be filled with water.	<ul style="list-style-type: none"> → The "Start/Pause" button is not pressed. → Water tap is not turned on. → Water pressure is less than 0,03 MPa. → The inlet hose is kinked. → Water supply failure. → The program knob is not properly set. → The washer door is not properly closed. → The inlet hose filter is blocked. 	<ul style="list-style-type: none"> _ press the "Start/Pause" button. _ Turn on the water tap. _ Check water pressure. _ Check the inlet hose. _ Ensure the water supply. _ Set the program knob properly. _ Close the washer door properly. _ Unblock the inlet hose filter.
Machine is draining while being filled.	<ul style="list-style-type: none"> → The height of the drain hose is below 80 cm. → The drain hose is in water. 	<ul style="list-style-type: none"> _ Install drain hose within 80-100 cm of height. _ Make sure the drain hose is not in water.
Drainage failure.	<ul style="list-style-type: none"> → Drain hose is blocked. → Drain hose end is higher than 100 cm above the floor level. → The filter is blocked. 	<ul style="list-style-type: none"> _ Unblock the drain hose. _ Make sure the drain hose end is lower than 100 cm above floor level. _ Unblock the filter.
Strong vibration while spinning.	<ul style="list-style-type: none"> → Not all transportation bolts have been removed. → Washing machine is located on an uneven surface or is not level. → Machine load is over 7/6/5kg. 	<ul style="list-style-type: none"> _ Remove all transportation bolts. _ Make sure the washing machine is on an even surface and levelled. _ Reduce amount of laundry in the drum.
Operation stops before completing wash cycle.	<ul style="list-style-type: none"> → Water or electricity failure. 	<ul style="list-style-type: none"> _ Check the power supply or water supply.
Operation stops for a period of time.	<ul style="list-style-type: none"> → Washing machine gives an error message. → Washing machine is in soaking cycle? 	<ul style="list-style-type: none"> _ Check display codes. _ Press the rinse hood button or the Start/pause button again to cancel it.
Excessive foam in the drum, which is spilled to the distribution drawer.	<ul style="list-style-type: none"> → The detergent is not a low-foaming type or for manual wash. → Excessive use of detergent. 	<ul style="list-style-type: none"> _ Check if your detergent is appropriate. _ Reduce amount of detergent in the distribution drawer.
Automatic adjustment of the washing time.	<ul style="list-style-type: none"> → The washing program duration will be adjusted 	<ul style="list-style-type: none"> _ This is normal and doesn't affect the functionality.
Spinning fails	<ul style="list-style-type: none"> → Unbalance of the laundry 	<ul style="list-style-type: none"> _ Add clothes or run a spinning program again.

Sincere Forever