Service Manual



Model:MDL80CHS13B/H11EW-EU(NC)

Note:

Read this service manual carefully before service.

Please contact your service center if you have any problem.

Contents

01 PRECAUTION

02 SPECIFICATIONS

03 INSTALLATION

04 OPERATION INSTRUCTIONS

05 TEST MODE

06 DISASSEMBLY OF WASHER

07 TROUBLESHOOTING

08 IOT CONNECTION



WARNING

- Unplug the power cord once you don’t need it
- Do not hold the plug by a wet hand
- Failing to unplug may cause an electric shock

INPORTANT SAFETY NOTICE：

This service information is intended for individuals possessing adequate backgrounds of electrical, electronic and mechanical experience. Any attempt to repair this appliance may result in personal injury or property damage. The manufacturer or seller can not be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

01 PRECAUTION

NOTICE:

During the repair process, please pay attention to the following safety precautions when troubleshooting and replacing parts.

Safety Precautions

- **Use original parts**

The components of dryer have safety features such as non-flammability and voltage resistance. Therefore, it is essential to use the same components recommended by the manufacturer. Especially for labeled major safety components, it is necessary to only use the specified parts.

- **Grounding**

Connect the grounding wire to the outer shell plate and bury it at least 25 centimeters underground, or connect the grounding wire to the appropriate pin on a properly grounded power outlet. Do not connect the grounding wire to telephone lines, lightning rods, or gas pipelines.

01 PRECAUTION

Service Precautions

- **Observe Warnings**

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

- **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.

- **Perform Safety Checks after Service**

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 dryer in a level position (less than 1(one) degree) to prevent vibration and noise during operations.

- **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.

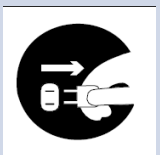
NOTICE:

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

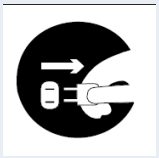
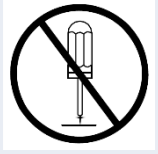
01 PRECAUTION

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

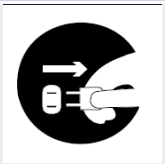
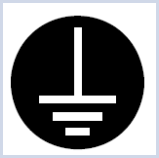
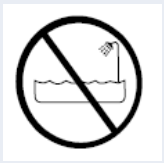
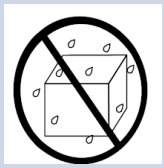
Symbol	Meaning
 **WARNING**	Indicates possibility of death or serious injury of a repair technician and a person nearby through the misconducted work, or of a user by a defect of the product after the work performed by the technician.
 **CAUTION**	Indicates possibility of injury or physical damages*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

Graphic Symbol	Meaning
 **ELECTRIC SHOCK**	• Indicates a caution (including a warning). • Specific instruction is followed by a graphic or characters in or 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. • Symbol left warns not to disassemble.
 **UNPLUG POWER**	• Indicates forcing (act must be conducted). • Specific instruction is followed by a graphic or characters in or near. • Symbol left warns to unplug the power cord.

WARNING

 **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, a malfunction or a defect may occur. • Also, a short circuit, ignition or other danger to the customer may occur.
 **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 MODIFY**	• Do not modify the product. • An electric shock or ignition may occur.
 **DO NOT DISASSEMBLE AND REPAIR**	• Only a repair technician can disassemble and repair. • An electric shock, ignition or malfunction may cause injury.

WARNING

 **USE EXCLUSIVE SOCKET**	• Use an exclusive A socket for the dryer， 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**	• 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.
 **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.

WARNING

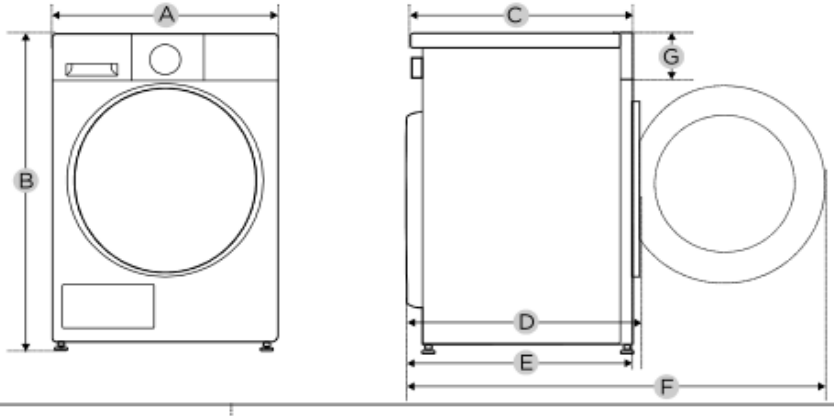
 **AVOID INFLAMMABLE**	• Do not put inflammable into the tub. • Do not put cloths stained with kerosene, gasoline, benzene, thinner, alcohol,etc. It may cause a fire or explosion.
 **CONNECT GROUNDING WIRE**	• Do not touch the laundry before the spin basket stops completely. • The laundry entangles your hand causing an injury even if the basket rotates slowly. Pay special attention to children.

CAUTION

 **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 machine during operation. • There is a rotary part under the machine which may cause an injury.

02 SPECIFICATIONS

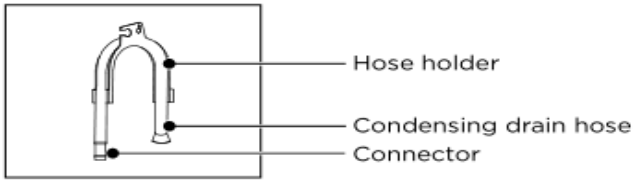
Model	Rated capacity
MDL80-CHS13B/H11EW-EU(NC)	8.0kg dry load



Model	MDL80-CHS13B/H11EW-EU(NC)
Power Supply	220-240V-,50Hz
Rated input power	750W
Rated capacity	8.0kg
Weight	46kg
Refrigerant	R290
Quantity of refrigerant	110g
GWP	3
CO_2e	0.00t
Ambient temperature	+2°C ~ +35°C
Dimension	
A	595mm
B	850mm
C	560mm
D	600mm
E	560mm
F	1080mm
G	120mm

Accessories

- The following parts are optional for specific models.
- If your dryer has following parts, please wear gloves to install them as per the instruction below .



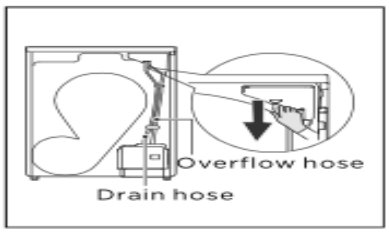
03 INSTALLATION

Install external drain hose

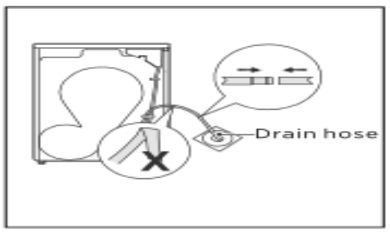
⚠WARNING

- Do not kink, crush or protract the drain hose.
- Position drain hose properly.

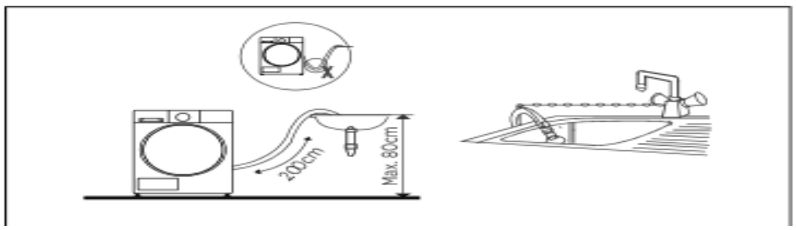
1. Pull out the upper drain hose



2. Put the external drain hose into the floor drain



3. Put the hose holder in the washing basin or any other sink.



Transport

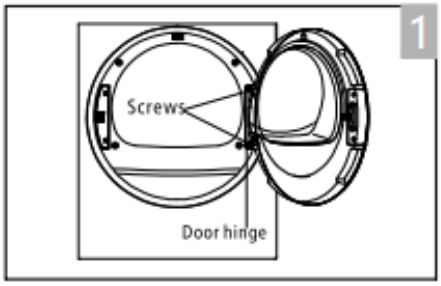
Move cautiously. Do not grasp any salient parts of machine. The machine door cannot be used as the handle for transport. If the dryer can't be transported erectly, the dryer can be tilted to right less than 30° .

Risk of injury and damage! Improper handling of the appliance may result in injury.

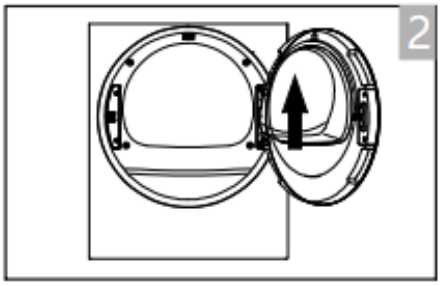
- The appliance is very heavy. Never transport or carry the appliance alone; always with the assistance of another person.
- Remove all obstacles on the transport route and from the installation location, e.g. open doors and clear away objects lying on the floor.
- Do not use the open door as a handhold.
- Remove all package material before using the appliance.
- Before setting up the tumble dryer, check it for any externally visible damage. Do not install or use a damaged tumble dryer.
- Do not install the tumble dryer in a room where there is a risk of frost occurring. At temperatures around freezing point the tumble dryer may not be able to operate properly. There is a risk of damage if the condensed water is allowed to freeze in the pump and hoses.

03 INSTALLATION

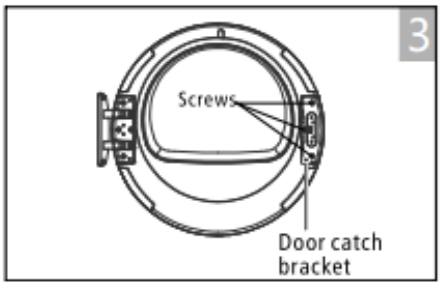
Left and Right Door Repair Guidelines



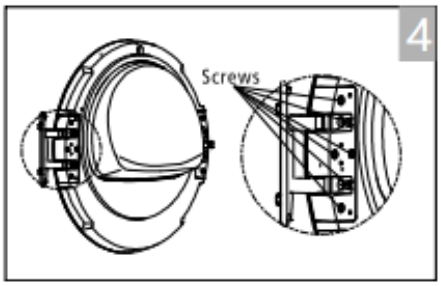
• Use an M 8mm socket to remove the two hexagonal bolts on one side of the door hinge. Due to the adhesive inside the screws, some force may be required to unscrew them.



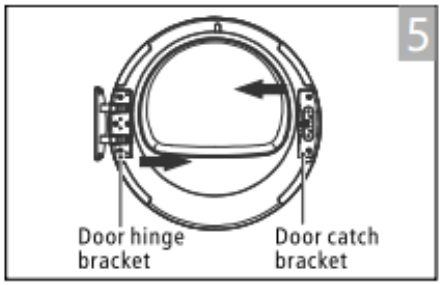
• After removing the bolts, because the door assembly is relatively heavy, it requires a partner to assist in lifting the entire door assembly slightly upwards and removing it from the metal front door panel. Be careful to avoid the glass being hit and broken.



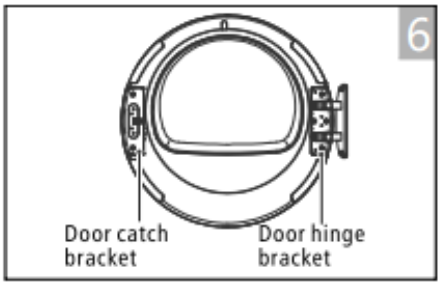
• In order to protect the appearance, first use a cotton cloth to pad the flat side of the door during installation. Use a PH2 screwdriver to remove the three black screws on one side of the door latch.



• Use a PH2 screwdriver to remove the 6 black screws on one side of the hinge, and pay attention to the distribution of the screws. There are 4 black screws on the front side, and 2 black screws on the side where the door is opened.

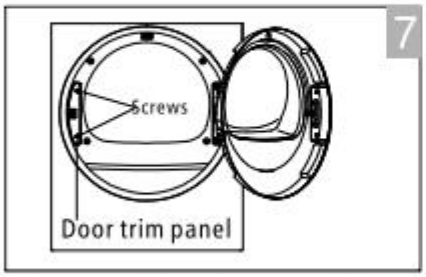


• Swap the installation positions of the door hook and the door hinge. Use a PH2 screwdriver to install the three screws on one side of the door latch. Use a PH2 screwdriver to install the 6 screws on one side of the hinge. Pay attention that there are 4 screws on the front side and 2 screws on the side where the door opens. Torque is 1.5N.m.

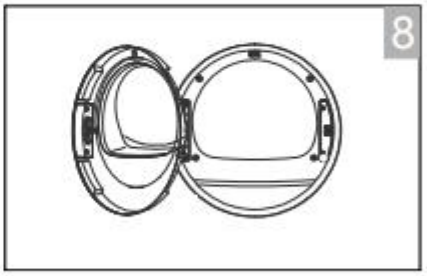


• After replacement, it will look like the above picture.

03 INSTALLATION



• Use a PH2 screwdriver to remove the two black screws on the front door trim panel.



• One partner assists in lifting the door assembly and hangs it on the metal front door panel from the left side. The partner needs to keep holding the door assembly. Use an M8mm socket to install the two hexagonal bolts on one side of the door hinge (Torque is 2.5N.m). Use a PH2 screwdriver to install the decorative panel on the other side (right side) and install two black screws (Torque is 1.5N.m) . By following the above steps, the conversion from left-opening to right-opening door is achieved.

NOTE

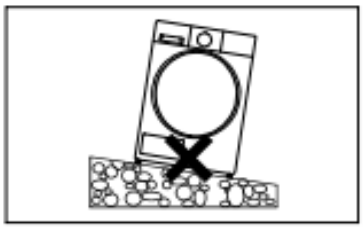
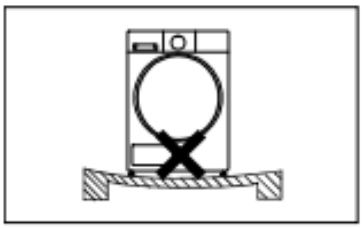
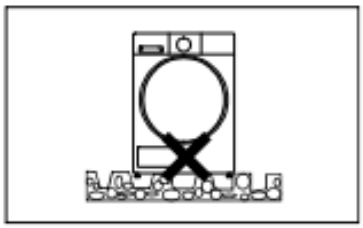
• After the replacement is completed, check whether the machine is running normally, whether there is an abnormal opening and closing sound, if there is an anomaly, contact the after-sales service.

03 INSTALLATION

Warning

• Children can become entangled in the packaging film or swallow small parts and suffocate. Do not allow children to play with the packaging.
• The appliance must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the tumble dryer, in such a way that a full opening of the tumble dryer door is restricted.
• Do not restrict the floor clearance through deep pile carpets, strips of wood or similar. This might cause heat built-up which would interfere with the operation of the appliance.

1. It is recommended that, for your convenience, the machine is positioned close to your washing machine.
2. Do not stack this dryer on washing machine without stacking kits. (If you want to stack this dryer on a washing machine, please purchase the independent parts. Installation shall be done by the manufacturer, its service agent or similarly qualified persons to avoid any hazards.)
3. The tumble dryer must be installed in a clean place, where dirt does not accumulate. Air must be able to circulate freely around the appliance. Do not obstruct the front air inlet or the air intake grilles at the back of the machine.
4. To keep vibration and noise within minimum level when the dryer is in use, it must be placed on a firm and level surface.
5. The feet must never be removed.

NOTE

- Do not install the tumble dryer in a room when there is a risk of frost occurring. At temperatures around freezing point the tumble dryer may not be able to operate properly.

03 INSTALLATION



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.



WARNING

Step	Item
1. Unpack the dryer Check the appearance, if no damage, take off the product from the EPS foam	
2. Check the accessories	
3. Connect drain hose and put it in drain pipe	

03 INSTALLATION

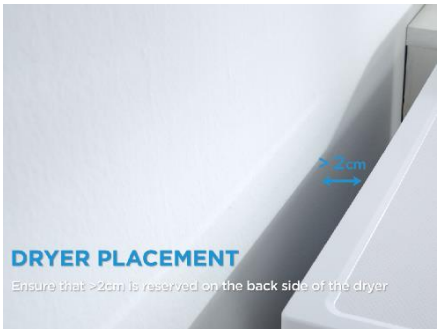
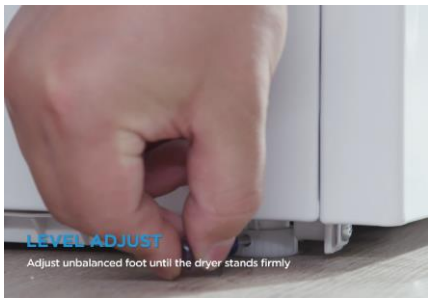


UNPLUG POWER

- 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.



WARNING

Step	Item
4.Ensure that ≥1.5cm is reserved on the back side of the dryer	
5. Level adjust	
6. Run the first drying cycle	

03 INSTALLATION

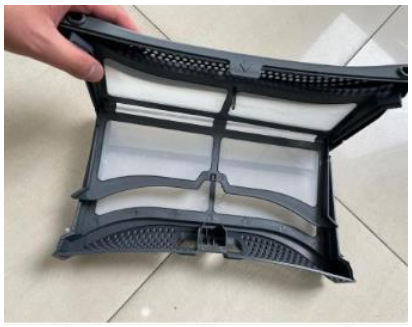


UNPLUG POWER

- 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.



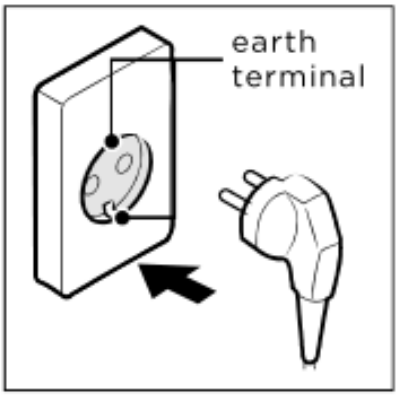
WARNING

Step	Item
7.Clean the filter	
8. Empty the water drawer	

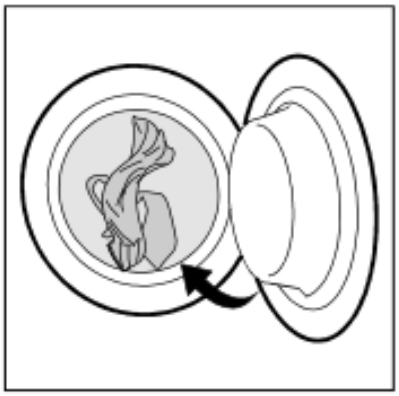
04 OPERATION INSTRUCTION

1. Before drying

1. Insert the mains plug



2. Load the laundry

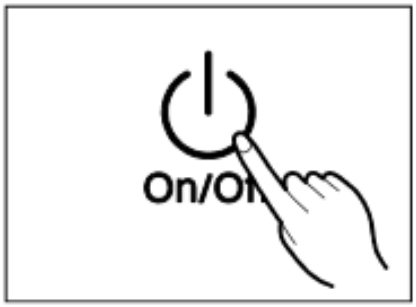


3. Close the door

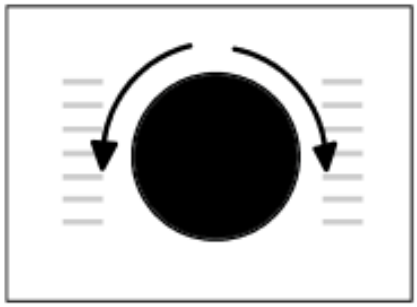


2. Drying

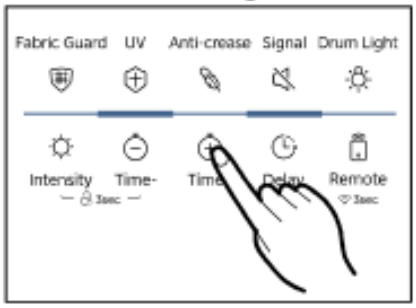
1. Power on



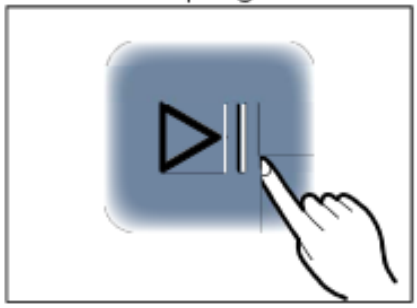
2. Select program



3. Select options or remain default settings



4. Press Start/Pause to start the program

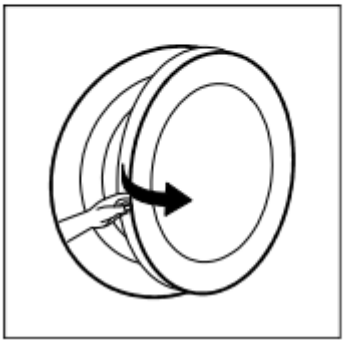


04 OPERATION INSTRUCTION

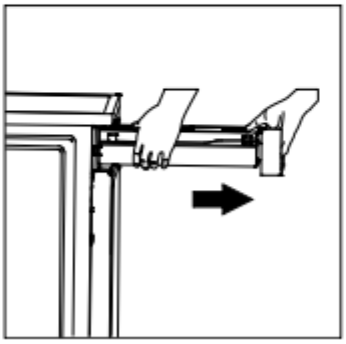
3. After Drying

A acoustic signal is given and “End” will be displayed.

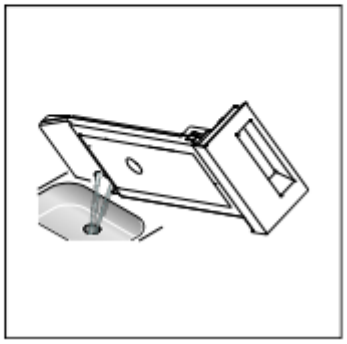
1. Open the door and take out laundry



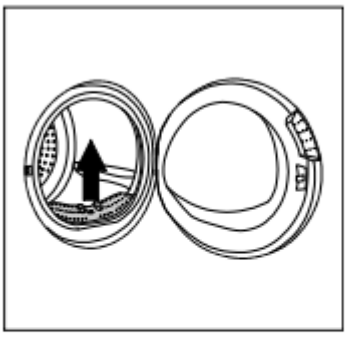
2. Pull out the water container



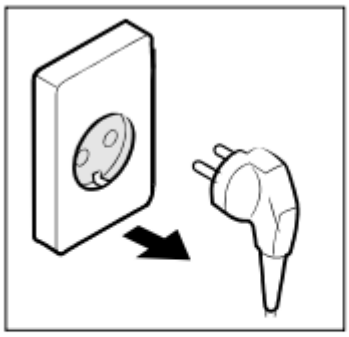
3. Pour out condensation water



4. Clean the lint filter



5. Unplug the mains plug



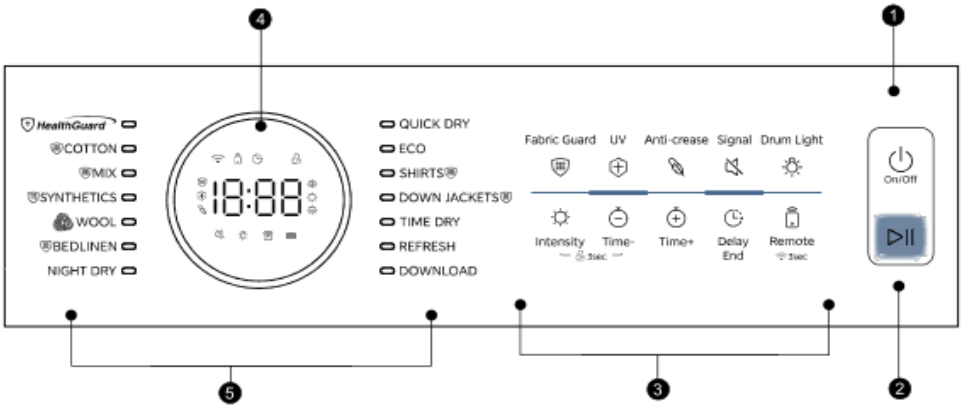
NOTE

- If the socket with a switch is used, please press the switch to turn off the power directly.

04 OPERATION INSTRUCTION

The reference weight of dry clothes (weight per item)

Sweater (mixed 800g)	Jacket (cotton 800g)	Jeans (800g)
Bath Towel (cotton 900g)	Single bedsheet (cotton 600g)	Work clothes (1120g)
Pyjamas (200g)	Shirt (cotton 300g)	T-Shirt (cotton 180g)
Underwear (cotton 70g)	Socks (mixed-weave 50g)	



1 On/Off

Switch the tumble dryer on or off.

2 Start/Pause

Press the button to start or interrupt the drying program.

3 Options

By selecting the options, you can change the program settings or select additional functions.

4 Display

The display shows you the settings, the estimated remaining time and status messages.

5 Programs

Various drying programs can be selected depending on your needs and the type of laundry to be dried.

04 OPERATION INSTRUCTION

Delay End

This function can be used to delay the end of the drying program by up to 24 hours. When the delayed program starts, the time on the display starts to count down and the " " symbol lights up.

1. Place the laundry in the drum and make sure that the appliance door is closed.
2. Press the [⏻] button, then turn the program selector to choose the desired program.
3. Press the [Delay End] button to set the desired time. Press it repeatedly to change the delay time.
4. After the [⏯]button has been pressed, the tumble dryer is in operating mode. The drying process is starting automatically when the delay time has elapsed.
5. If you press the [Delay End] button again, the program pauses.
6. If you want to cancel the delay end function, please press the [⏻] button, or turn the program selector also cancel the delay end function.

Time+/Time-

The duration of time controlled program can be adjusted individually by the option [Time+/Time-]. The drying time can be set in 10 minute steps. Once the preset time has elapsed, the program ends automatically.

Intensity

You can set the degree of dryness of the laundry using the [Intensity] button. There are three different drying level: Iron dry, Cupboard dry, Extra dry.

1. The drying level function can only be selected before the program starts.
2. Press the [Intensity] button repeatedly to change the dryness level.

Note:
This option is available for various programs.

Signal

Press the [Signal] button to activate the signal. Switch the signal tone on or off. The signal tone is switched on by default.
When the signal tone is switched on:

1. The tumble dryer confirms the pressing of the option button with a signal tone.
2. If the program knob is turned while the tumble dryer is running, the acoustic signal reminds you that this is an invalid operation.
3. When the drying program is finished, you will hear a signal tone.

Anti-Crease

At the end of the drying program, a 30-minute anti-crease function is activated as standard. The duration of this function can be set to 30-60-90-120 minutes.
This function prevents the laundry from wrinkling.
The laundry can be removed during the anti-crease function.

04 OPERATION INSTRUCTION

Child Lock

This tumble dryer is equipped with a special child lock function that prevents children from pressing buttons carelessly or operating the appliance incorrectly.

1. To activate the child lock, press the [Intensity] and [Time-] buttons for 3 seconds while the tumble dryer is running, paused or in standby mode.
2. To deactivate the child lock, press the [Intensity] and [Time-] buttons again for 3 seconds.

UV

The UV function helps to reduce germs that may still be present in the laundry after washing. Particularly suitable for increased hygiene requirements.

1. Select special program.
2. Press the [UV] button and the [ ] symbol appears on the display.
3. To deactivate the UV function, press the [UV] button again.

Note:
This option is only available for special programs.
Some programs have this function activated automatically. To deactivate, press the [UV] button and the symbol disappears from the display.

Fabric Guard

For fine and delicate fabrics, you can use this function to lower the drying temperature, but please note that it may lengthen the drying time.

Drum Light

The drum light will be on when the button is pressed or when the door is open.

Remote

After you have connected your appliance to your wireless network, you can operate it via the SmartHome App. Press the [Remote] button to activate the remote control status to control your appliance via the SmartHome App. To deactivate the function, press the button again. For information how to connect your appliance to SmartHome App see "App Setup and Operation".

Considering the safe operation of appliance, the smartphone remote control should meet the following conditions:
1. The appliance should connect to the Wireless Network
2. The door of drum should be closed

Note:
If the door is open at any time, the remote control function will be deactivated.
The remote control function is turned off at the end of each drying program automatically, if you want to use remote control function again, you need to turn it on again.

Wireless Network

For connecting your appliance to the Internet, press the [Remote] button for 3 seconds. This activates the wireless network function. To cancel the Wireless Network function and reset the network settings on the appliance, press again for 3 seconds.

Note:
Information on the initial installation of the wireless network connection see "App Setup and Operation".

04 OPERATION INSTRUCTION

Consumption Data

The listed consumption data are measured in accordance with EN 61121 and refer to the residual moisture of the textiles spun in the washing machine at the indicated speed. The actual consumption data may vary from the given data. The load quantity, type of fabric, composition of the laundry, residual moisture in the fabric, selected level of drying and options as well as ambient conditions can influence the consumption data.

Model	Program	Max Load	Final moisture content	Drying Time [h:min]	Energy Consumption	Spin Speed
MDL80-CHS13B/H11EW-EU(NC)	ECO*	8.0kg	0%	3:40	1.50kWh	1000rpm
		4.0kg	0%	2:30	0.87kWh	1000rpm
	Cotton Extra (Cotton+)	8.0kg	-3%	4:00	1.90kWh	1000rpm
		4.0kg	-3%	3:00	1.20kWh	1000rpm
	Cotton Iron (Cotton+)	8.0kg	10%	3:00	1.35kWh	1000rpm
		4.0kg	10%	2:30	0.80kWh	1000rpm
	Synthetics	2.5kg	2%	1:30	0.65kWh	800rpm
	Synthetics Extra (Synthetics+)	2.5kg	0%	1:50	0.70kWh	800rpm
	Synthetics Iron (Synthetics+)	2.5kg	2%	1:00	0.50kWh	800rpm
	Wool	1.0kg	6%	3:30	1.80kWh	/

04 OPERATION INSTRUCTION

Display

	Wireless Network
	Remote
	Delay End
	Fabric Guard
	Child Lock
	UV
	Anti-Crease
	Intensity (Iron dry, cupboard dry, extra dry)
	Empty water container warning
	Clean lint filter warning
	Signal
	Wool suitable for wool loads
18:88	Remaining Time indicator/Error message

Before Starting the Appliance

1.Inset the mains plug into the socket.
2.Put your laundry loosely inside the drum.
3.Close the door.Take care not to trap any items.
4.Switch on the appliance.

Program Selector

1.When the LED display screen brightens up, rotate the program knob to select the desired program.
2.Select the [Delay End], [Time], [Intensity], [Anti-Crease] , [Fabric Guard] , [UV] options for additional function.
3.Press the [▷II]button.
4.Press the [⏻] button after the program has completed.

Program Start

The drum will rotate after the program starts. The estimated remaining time will be displayed.

Program End

1.The drum will stop rotating after the program ends. The display will show "End" and related LED will illuminate. The dryer will start [Anti-Crease] function if user doesn't remove the load. Please press [⏻] button after unloading the tumble dryer to disconnect from the power and draw the mains plug.
2.Deal with any problems according to "Trouble Shooting" chapter. If there is an unexpected stop during the drying process or the dryer shows an Error Code refer to list of "Error Codes".

04 OPERATION INSTRUCTION

Program	Max Load	Description
Cotton	8.0kg	This program is suitable for drying heavy-duty cotton items. Note: Use Bed Linen program to dry large, bulky items made from cotton like bed sheets. Use Mix program to dry small size mixed loads type made of cotton and synthetics.
ECO[1]	8.0kg	The eco program is suitable to dry wet cotton laundry. It's the most efficient program in terms of energy consumption.
Mix	6.0kg	For drying mixed loads made of cotton, synthetics including mixed fabrics.
Synthetics	2.5kg	Suitable for easy-care textiles made of synthetics or mixed fabrics that do not need to be ironed after drying, such as leisure wear, baby clothes or socks. Note: Do not exceed the maximum loading quantity.
Wool	1.0kg	Suitable for auxiliary drying of machine washable wool clothing.
Shirts	1.0kg	The program is dedicated to shirts and blouses. Default setting of the drying level is Iron Dry, which makes manual ironing easier. To avoid creases hang laundry on hanger for final dry-off or iron immediately after end of program. Note: Do not exceed the maximum loading quantity.
Down Jackets	1.5kg	Suitable for down clothing, such as down jackets, down vests, down pants, thin down comforters, etc. Note: Do not exceed the maximum loading quantity.
Bed Linen	5.0kg	To dry bed linen, bed sheets or other large items.
Time Dry	—	The Time Dry program is suitable for pre-dried or slightly damp laundry. Also recomended for individual items or for drying thin fabrics. The program can be set between 10 and 150 minutes.
Refresh	2.0kg	To refresh clothes kept at closet for a long time or to remove odors. Min. 20 min to max. 180 min.(in 10 min. steps)

04 OPERATION INSTRUCTION

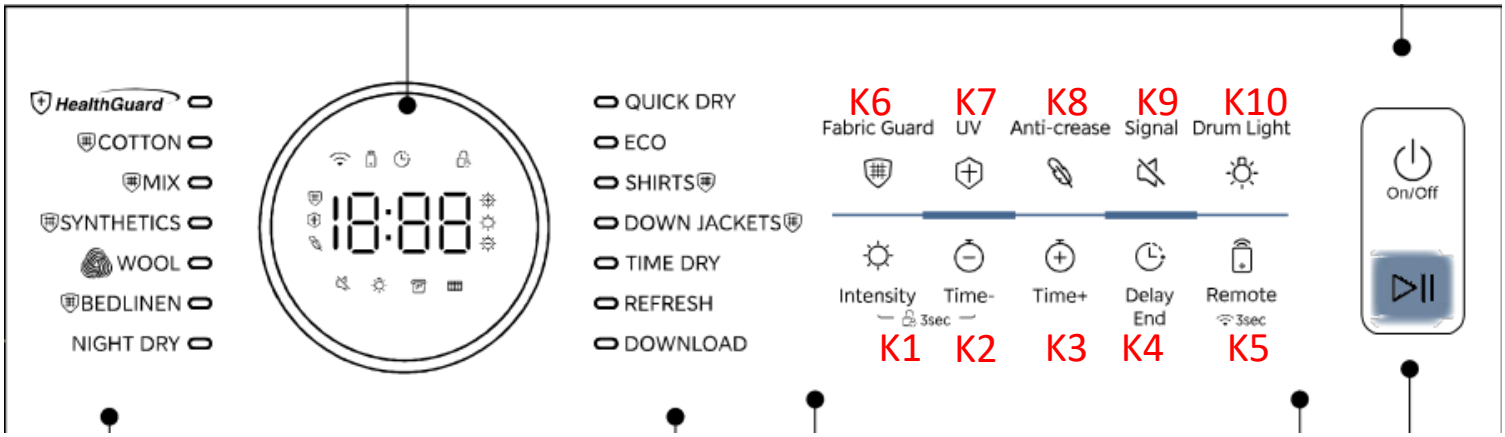
Program	Max Load	Description
Health Guard	5.0kg	To sterilize drying clothing, especially long-term heat-resistant clothing. Light and fine clothing are not suggest to use this program.
Quick dry	0.6kg	For quick drying of individual items or small quantities of laundry. Suitable for textiles made of cotton, synthetics and mixed fabrics. Do not exceed the maximum load quantity for this program. Note: For textiles like towels, bathrobes or bathroom rugs please use the program Towels.
Night Dry	4.0kg	For low-noise drying of clothes at night.
Download[2]	—	By using APP, you can download additional programs to your tumble dryer and select them under the Download program position. Choose the program that meets your needs in the APP.
Delicate	1.0kg	Suitable for drying delicate fabrics. Note: Do not exceed the maximum loading quantity.
Sports	3.0kg	Special program for iron-free sportswear and functional textiles, made from thin polyester fabrics.
Jeans	4.0kg	Special program for jeans trousers and jeans jackets as well as casual clothing made from denim. Note: Dry inside out.
Silk	1.0kg	To dry silk and satin clothing.
Towel	6.0kg	This program is dedicate to dry towels made of cotton and mixed fabrics.

1.The Eco program is the energy saving program and is suitable for drying normal wet cotton laundry. It's the most efficient program in terms of energy consumption for cotton laundry.
2.DOWNLOAD default program is Sports.
The programs (Sports, Jeans,Silk, Towel, Delicate) can only be selected by SmartHome App on mobile phones.

NOTE

- The max load is the maximum load quantity in kg dry weight that can be dried at one time. Make sure that the laundry loaded into the appliance does not exceed the rated capacity.
- Time drying programs do not automatically detect the residual moisture of the laundry to be dried. If the laundry is still damp after drying program, it's advisable to repeat the program if necessary and adjust the program duration The duration of program can be adjusted by usage of Time +/- buttons.

05 TEST MODE



① Turn on the machine.

② Press “K3” and “K5”, “K3” and “K5”.

③ When the screen displays “- - -” or “t01”, it means you have entered the test mode for dryer.

④ Rotate the knob to adjust the test mode, press “Start/pause” to enter the program.

t01: Display mode test

When you enter the UI, T01 is displayed on the control panel. Press the “Start/pause” once,the screen dispay d00. Press the “Start/pause” again ,the screen dispay platform project number.

t02: Error Code Test

Press the [Start/Pause], it displays last 2 historical error code. E00 means no error code happened before.

t03: Software version test

Press the Pause button to pause, and UEr is displayed.

Press the [Start pause] key to display the project number, UI board software version number, drive board software version number, and frequency-Converter software version number in turn.

Press the [Start pause] key to return to t03 display.

t04: GUI test

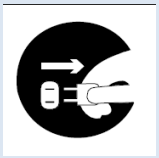
Press the [Start pause] key to enter the test, the display is fully on.

Press the "Start pause" button to pause, and the display displays "Uit".

05 TEST MODE

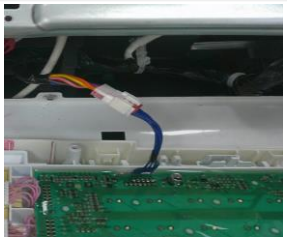
t05: Drain Pump Test
Press "Start pause" to enter the test and "PPT" will be displayed.
Press the button [Start pause] to run the pump. If the water box is full, the control panel displays "FP"; If the water box is empty, the control panel displays "EP".
Press the button [Start pause] to turn off the pump and return to T05 display.
t06: Water Level Sensor Test
Press "Start pause" to enter the test. If the water box is full, the control panel will display "FLL". If the water box is empty, the control panel displays "EPP".
Press the button [Start pause] to run the pump.
Press the button [Start pause] to turn off the pump and return to t06 display.
t07: Air inlet temperature sensor test
Press "Start pause" to enter the test, and the control panel displays the inlet temperature.
Press "Start pause" to turn on the fan, and the inlet temperature is displayed on the control panel.
Press the button [Start pause] to turn off the fan and return to t07 display.
t08: Air outlet temperature sensor test
Press "Start pause" to enter the test, and the control panel displays the outlet temperature.
Press "Start pause" to turn on the compressor, and the outlet temperature is displayed on the control panel.
Press the button [start pause] to shut down the compressor and return to T08 display.
t09: Motor test
Press "Start pause" to enter the test, and the control board displays “tt".
Press "Start pause" to turn on the motor, the motor continues to turn forward, and the control board displays “tt".
Press the button [start pause] to turn off the motor and return to T09 display.
t10: Humidity sensor test
Press "Start pause" to enter the test, and the control board displays the humidity sensor frequency.
Press "Start pause", the control panel displays "HFt".
Press the button [start pause] to return to ta display.

06 Disassembly of dryer

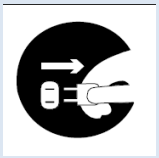


UNPLUG POWER

•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.

Disassembly and assembly steps	Graphic	Detailed steps for product disassembly
Remove control panel and PCB		1.Unfasten the two screws behind the top cover board with cross screwdriver and take it out backwards to remove the top cover board
		2.Pull out the water container
		3.Unfasten the two screws in the front of control panel with cross screwdriver
		4.Unfasten the screws on the top with cross screwdriver
		5. Pull out all connection pins and remove control panel assembly

06 Disassembly of dryer

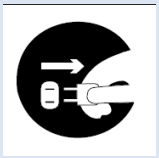


UNPLUG POWER

•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.

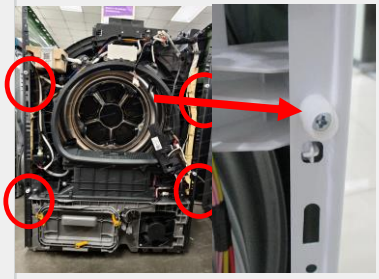
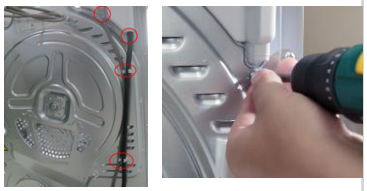
Disassembly and assembly steps	Graphic	Detailed steps for product disassembly
Remove control panel and PCB		6. Remove 1 pcs of screws, then take off the control box
		7. Remove PCB
		8.Pull out all connection pins
		Control panel and PCB

06 Disassembly of dryer

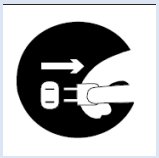


UNPLUG POWER

•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.

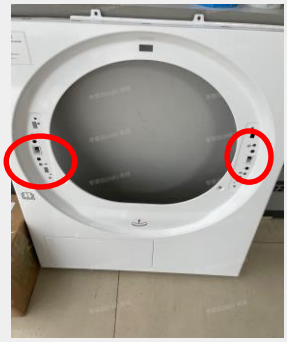
Disassembly and assembly steps	Graphic	Detailed steps for product disassembly
Remove door subassembly		1. Unfasten the screws on the door hinge and remove door subassembly
Remove side board		1.Remove screws on left-side and right-side board
Remove housing drawer		1.Pull out the inlet and return pipes from all the buckles. 2.Unfasten the screw of the housing drawer

06 Disassembly of dryer

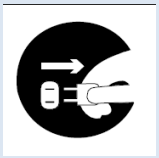


UNPLUG POWER

•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.

Disassembly and assembly steps	Graphic	Detailed steps for product disassembly
		1. Take off the strainer
Remove front panel		2.Unfasten screws on the front cover(two at the bottom).
		3.Remove screws of door lock and pull out connection pin of door lock
Remove the electric filter		1.Pull out wire terminal of electric filter and ground line 2.Unfasten screw and remove the electric filter
Remove power line		1. Unfasten screw and remove the power line

06 Disassembly of dryer

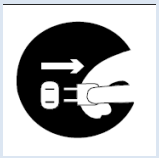


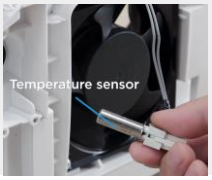
UNPLUG POWER

•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.

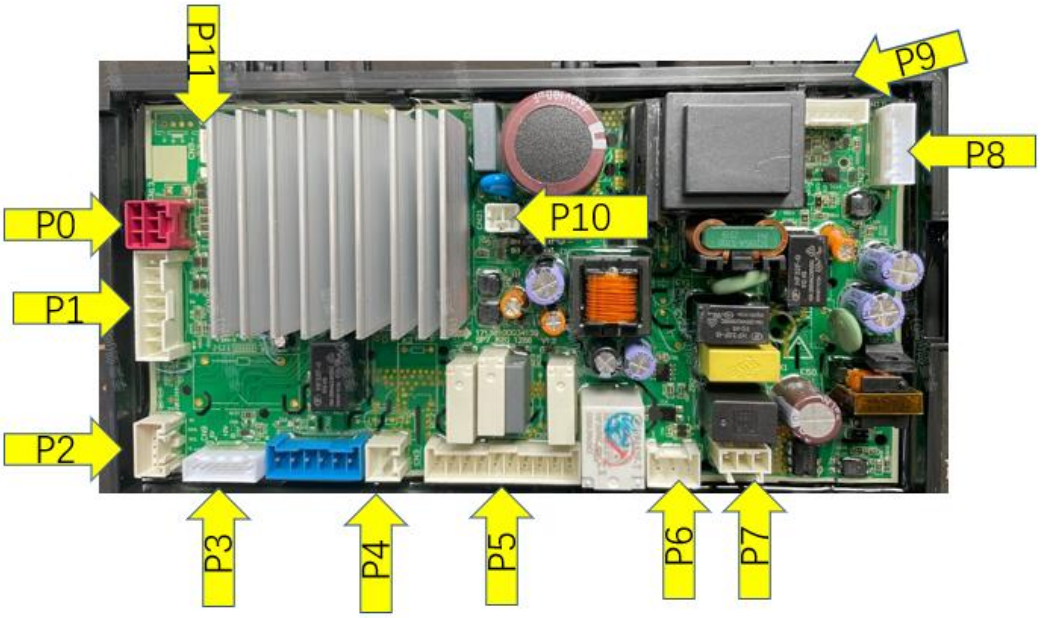
Disassembly and assembly steps	Graphic	Detailed steps for product disassembly
Remove the back cover		1. Remove all of the screws on the back cover and take it off
Remove the impeller		1.Remove nut and take impeller off
Remove the drain pump		1.Remove rear cover of the drain pump kit 2.Pull out connection pins on the drain pump
		1.Take off water level sensor and drain pump 2. Pull out connection pin of water level sensor
Remove the tub assembly		1.Lift up pulley of the motor and remove belt 2.Remove screws on the back cover of cabinet 3.Remove tub assembly with long belt

06 Disassembly of dryer

 **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.

Disassembly and assembly steps	Graphic	Detailed steps for product disassembly
Remove the tub assembly		1.Unscrew 4 screws on the bearing house assembly and remove the bearing cover. 2. Unscrew the nut(M8) and remove the bearing house assembly, Separate the back cover from the tub.
Remove temperature sensor		1.Pull out the temperature sensor
Remove the impeller		1.Remove all screws from the cover of heat exchanger and take off
Remove the motor		1. Remove the spring of motor 2.Unfasten 2 screws of motor 3. Pull out connection pin of motor
Remove the heat pump system	 	1.Unfasten the nuts(M6) and pull out the pin of temperature sensor and the connection pin behind the cover 2. Remove the heat pump system from the bottom plate. (two people cooperate) 3.Remove the lower foam duct from the floor and take off the condenser baffle.

07 TROUBLESHOOTING



P0	5V、GND
P1	Mechanical door lock switch, cold outlet NTCWater level sensor of drain pump, UV lamp, downlight
P2	Temperature and humidity sensor
P3	Main display communication internal transfer cable
P4	Neutral wire
P5	Drainage pump, compressor fan, compressor
P6	Humidity detection
P7	Live and neutral wires of the power s upply
P8	Main display communication
P9	Internal transfer line for main display communication
P10	Grounding, motor casing
P11	Motor UVW

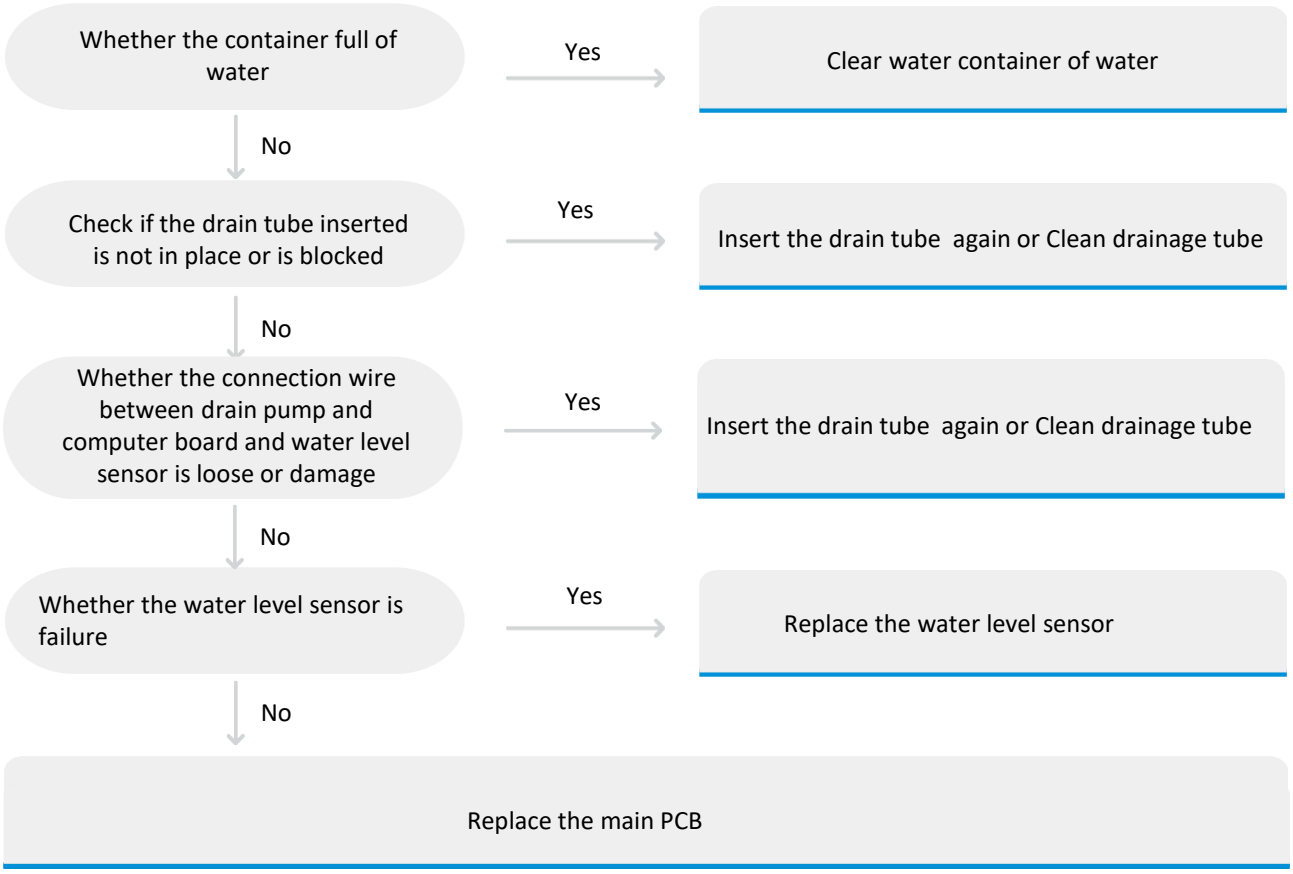
07 TROUBLESHOOTING

E20

Define: Container full problem during working.
Reasons: The root reason is that the container remains full within 2 minutes.

Malfunction code	Root Reason	Possible cause
E20	The container remains full within 2 minutes.	Container is full
		The drain tube inserted is not in place or is blocked
		Drain pump failure
		Water level sensor failure
		Main PCB failure

Check Procedure:



07 TROUBLESHOOTING

E20

Check Procedure:

Step 1 Check the water container

1. Check the water container and clean out it. (Fig.1) & (Fig.2)

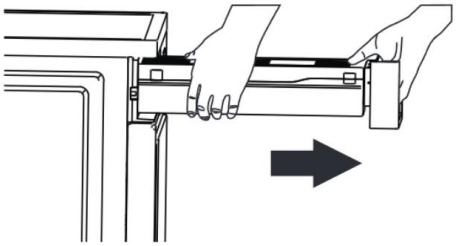


Fig.1

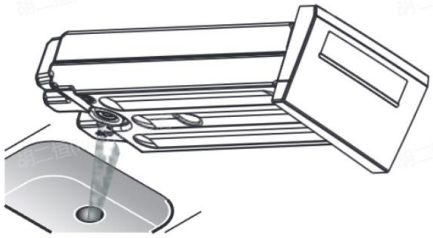


Fig.2

Step 2 Check the drainage tube

1.Remove the screws on the protective cover and take off the protective cover. (Fig.3)
2. Check if the drainage tube is in place. (Fig.4)
3.If the drainage tube is in the correct position, please remove the drainage tube to check if it is blocked, and clean it (Fig.5)



Fig.3





Fig.4





Fig.5

07 TROUBLESHOOTING

E20

Check Procedure:

Step 3 Check the connection drain pump and computer board and water level sensor wire

1.Disassemble the 2 screws of the top cover plate. (Fig.6)
2.Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.7)
3.Remove and insert the wire terminals for the PCB and drain pump and water level sensor connections (Fig.8)
4.If the problem can't be solved, please check if the wire terminals are damaged.
5.If the wire terminals not well, please replace the wire terminals .



Fig.6

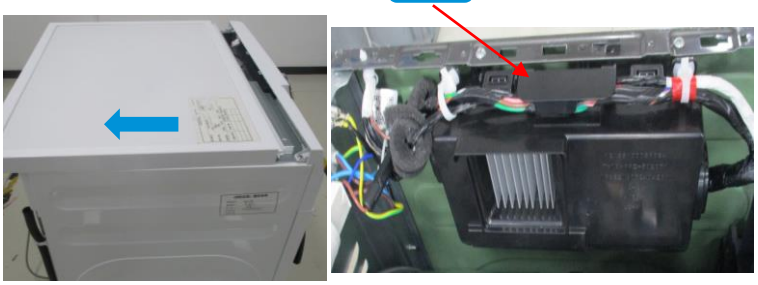


Fig.7

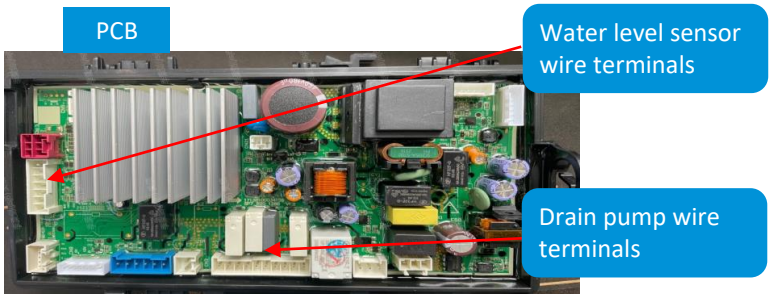


Fig.8

Step 4 Check the drain pump

1.Use a multimeter for testing, when the measurement values of Haoli Company is 1028× (1 ± 10%) Ω (20 ℃)and the measurement values of Yinqiu Company is 297× (1 ± 10%) Ω (20 ℃), it is considered qualified. (Fig.9)
2.If the drain pump not well, replace it .



Fig.9

07 TROUBLESHOOTING

E20

Check Procedure:

Step 5 Check the connection drain pump and computer board and water level sensor wire

1. Check if all components of the water level sensor are functioning properly.
2.Use a multimeter for testing. When the float is at the bottom, it shows an open circuit. When you push the float upwards with your hand and it shows a closed circuit, it is considered qualified.
3.If the water level sensor not well , please replace the water level sensor. (Fig.10)

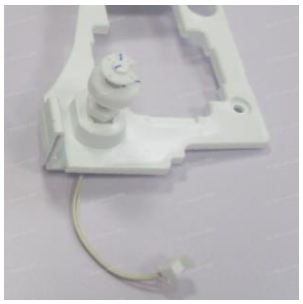


Fig.10

Step 6 Replace the main PCB

1. If all the above checks are normal, please replace the PCB. (Fig.11)



Fig.11

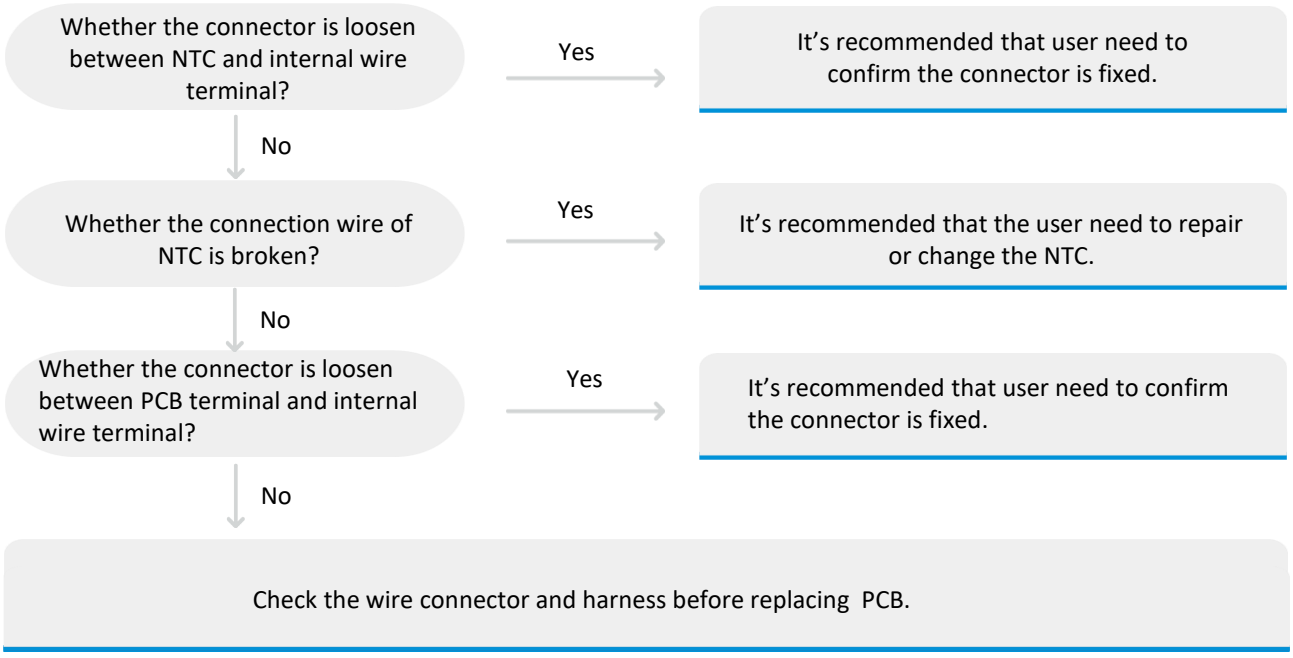
07 TROUBLESHOOTING

E33

Define: NTC (Negative Temperature Coefficient) problem during drying.
Reasons: If the dryer machine detects that the AD value of NTC is not within the normal range for 2 seconds, it will give an alarm.

Malfunction code	Root Reason	Possible cause
E33	If the dryer machine detects that the AD value of NTC is not within the normal range for 2 seconds, it will give an alarm.	The wire connector loose between NTC and internal wire terminal
		The NTC connection wire broken
		The wire connector loose between PCB terminal and internal wire terminal

Check Procedure:



07 TROUBLESHOOTING

E33

Check Procedure:

Step 1 Check the wire connector of NTC

1. If the connector is loosen between NTC and internal wire terminal the E33 warning will occur on the power. It's recommended that user need to confirm the connector is fixed. (Fig.1)

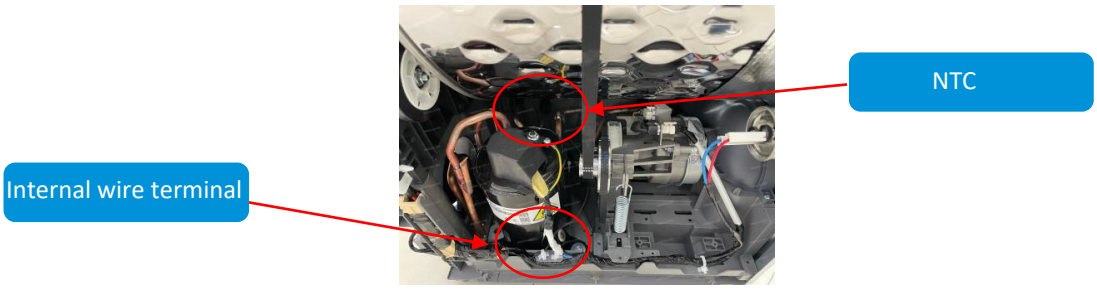


Fig.1

Step 2 Check the connection wire of NTC

1. If the connection wire of NTC is broken the E33 warning will occur on the power. It's recommended that user need to repair or change the NTC. (Fig.2)

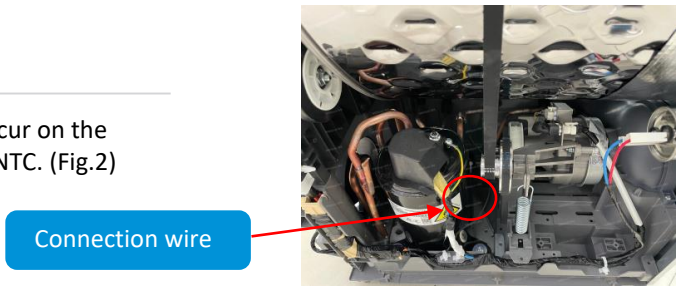


Fig.2

Step 3 The wire connector loose between PCB terminal and internal wire terminal

1.If the connector is loosen between PCB terminal and internal wire terminal the E33 warning will occur on the power. It's recommended that user need to confirm the connector is fixed.(Fig.3)
2. If all inspections are completed, it is suspected that the computer board is damaged. It's recommended that the user need to repair or change the humidity sensor .

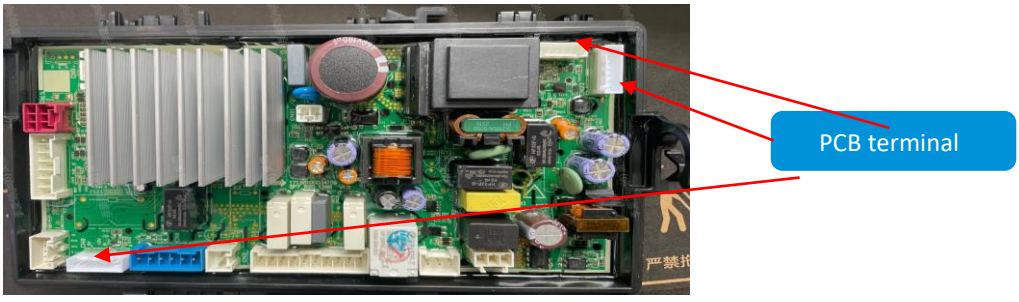


Fig.3

07 TROUBLESHOOTING

E50

Define: Motor inverter PCB detects abnormal signals and show the error

Reasons: Motor inverter PCB detects abnormal signals and show the error. It is mainly divided into the following four categories, each of which has detailed adverse causes.

(a) : The external voltage is abnormal, which causes the motor inverter PCB to judge that the voltage is too high or too low
(b) : The motor inverter PCB is overloaded ->It may be that the motor rotation is blocked, causing the motor inverter PCB to overload
(c) : The motor inverter PCB is damaged, causing the motor inverter PCB to detect excessive current or abnormal IPM temperature sampling.
(d) : The motor inverter PCB is abnormal due to the main PCB issue. There are the following situations: 1) The motor speed signal cannot be detected; 2) Due to the abnormality of the main PCB, the temperature of the motor inverter PCB is abnormal, and the motor temperature is misjudged to be too high; 3) The motor inverter read the information (Flash) incorrectly due to the defective motor inverter PCB.

Malfunction code	Root Reason	Possible cause
E50	Motor inverter PCB detects abnormal signals and show the error	The external voltage is abnormal, which causes the motor inverter PCB to judge that the voltage is too high or too low
		The motor inverter PCB is overloaded ->It may be that the motor rotation is blocked, causing the motor inverter PCB to overload
		The motor inverter PCB is damaged, causing the motor inverter PCB to detect excessive current or abnormal IPM temperature sampling.
		The motor inverter PCB is abnormal due to the main PCB issue. There are the following situations: 1)The motor speed signal cannot be detected; 2) Due to the abnormality of the main PCB, the temperature of the motor inverter PCB is abnormal, and the motor temperature is misjudged to be too high; 3) The motor inverter read the information (Flash) incorrectly due to the defective motor inverter PCB.

07 TROUBLESHOOTING

E50

Check Procedure:

Check whether the voltage used by the machine is reasonable:
1. For the model with the voltage of 220V~240V on the rating label, check whether the voltage used by the machine is less than 187V or more than 276V.
2. For the model with the voltage of 110V~127V on the rating label, check whether the voltage used by the machine is less than 94V or more than 146V

No → Adjust the operating voltage of the machine to the recommended voltage on the rating label, and run the machine again for one cycle.

Yes ↓

Check whether the motor operation is blocked, such as whether there are foreign matters stuck in the motor, which affect the motor rotation

Yes → Remove the foreign matters that affect the rotation of the motor, replace the motor and run it for another cycle.

No ↓

Replace the motor and run it again for one cycle to see if the problem is solved

Yes → The problem is that the defective motor inverter PCB

No ↓

Replace the main PCB and run it again for one cycle to see if the problem is solved

Yes → The problem is that the defective harness(Broken somewhere)

No ↓

The maximum possibility of this problem is:
1. The voltage used by the machine exceeds the recommended voltage range of the machine;
2. The motor is defective, causing E50 alarm, and the motor needs to be replaced

07 TROUBLESHOOTING

E50

Check Procedure:

Step 1 Check whether the voltage used by the machine is reasonable:

1. For the model with the voltage of 220V~240V on the rating label, check whether the voltage used by the machine is less than 187V or more than 276V.
2. For the model with the voltage of 110V~127V on the rating label, check whether the voltage used by the machine is less than 94V or more than 146V.

1.Use a multimeter to measure the voltage of the socket (Fig.1)
2.1) For the model with the voltage of 220V~240V on the rating label, check whether the voltage used by the machine is less than 187V or more than 276V.
2) For the model with the voltage of 110V~127V on the rating label, check whether the voltage used by the machine is less than 94V or more than 146V.



Fig.1

Step 2 Check whether the motor operation is blocked, such as whether there are foreign matters stuck in the motor, which affect the motor rotation

---

1. Check whether the motor operation is blocked, such as whether there are foreign matters stuck in the motor, which affect the motor rotation. (Fig.2)

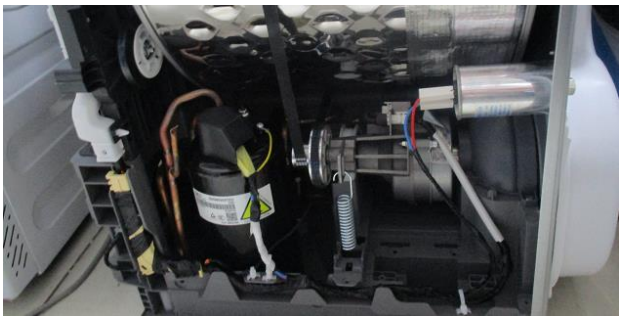


Fig.2

07 TROUBLESHOOTING

E50

Check Procedure:

Step 3 Replace the motor and run it again for one cycle to see if the problem is solved

1.Remove the Belt and spring. (Fig.3)
2. Disassemble 9 screws on the cover plates and 2 screws on the motor. (Fig.4)
3.Replace the motor.



Fig.3



Fig.4

Step 4 Replace the main PCB and check whether the problem can be solved.

1. Remove the 3 screws of side plate and replace the main PCB . (Fig.5)

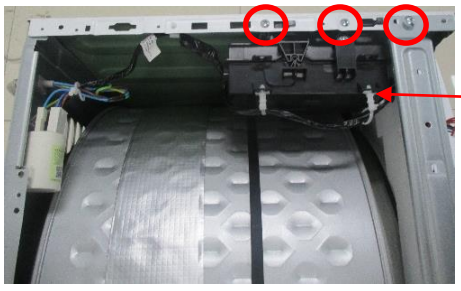


Fig.5

07 TROUBLESHOOTING

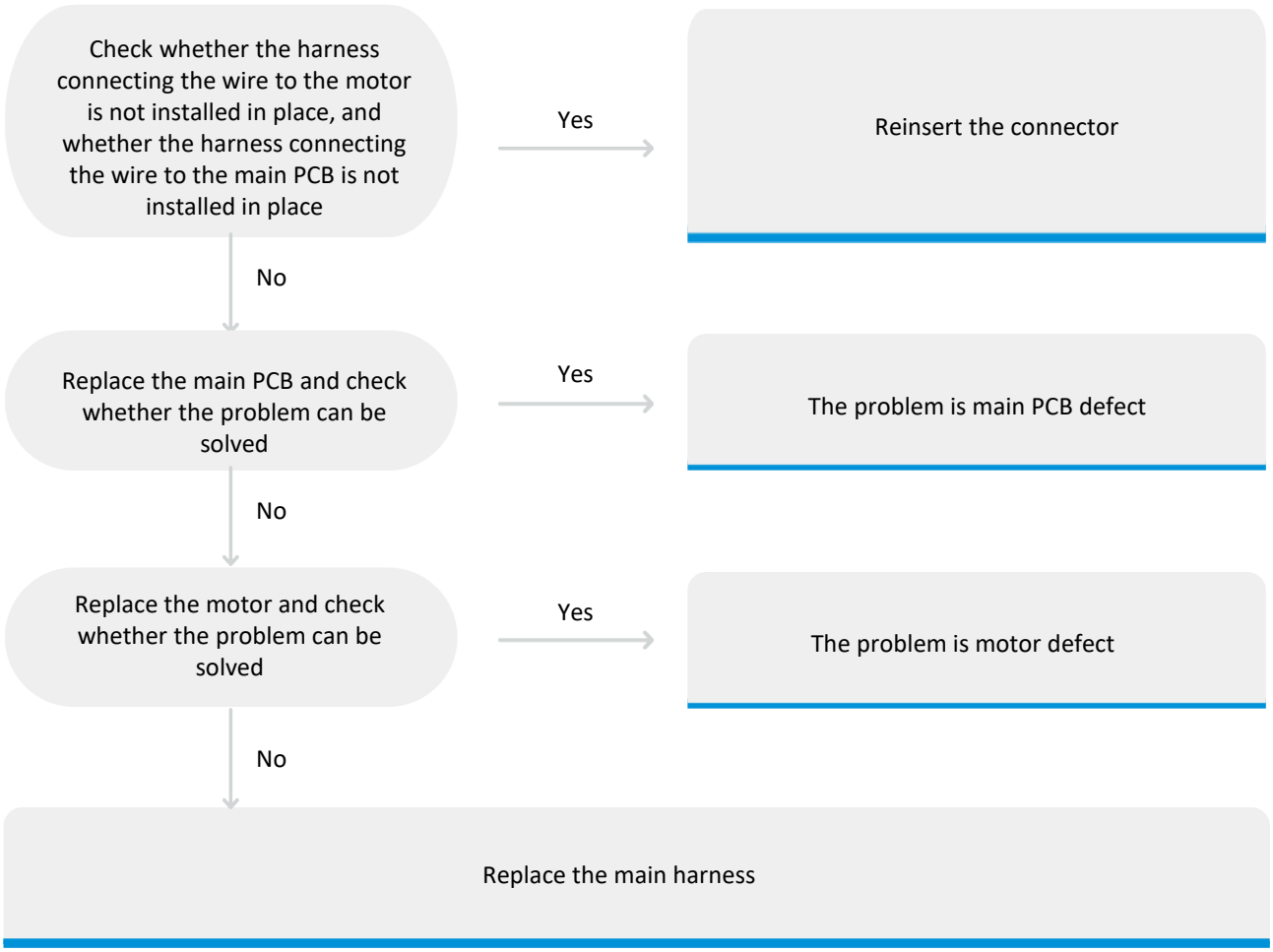
E64

Define: Communication error between control board and motor inverter

Reasons: Poor communication between main PCB board and motor inverter PCB.

Malfunction code	Root Reason	Possible cause
E64	Poor communication between main PCB board and motor inverter PCB	Harness in connecting wire and motor is not installed in place, or harness in connecting wire and main PCB is not installed in place
		The main PCB is damaged
		The motor inverter is damaged
		Broken main harness (wires connecting main PCB and motor inverter)

Check Procedure:



07 TROUBLESHOOTING

E64

Check Procedure:

Step 1 Check whether the harness connecting the wire to the motor is installed in place, and whether the harness connecting the wire to the main PCB is installed in place

1. Disassemble the 2 screws of the top cover plate. (Fig.1)
2. Push back the top cover plate 15mm until it leave away from the control panel and then take it down. (Fig.2)
3. Check whether the harness connecting the wire to the main PCB is installed in place.(Fig.3)
4. Remove the screws and show the motor.
5. Check whether the harness connecting the wire to the motor is installed in place.(Fig.4)



Fig.1

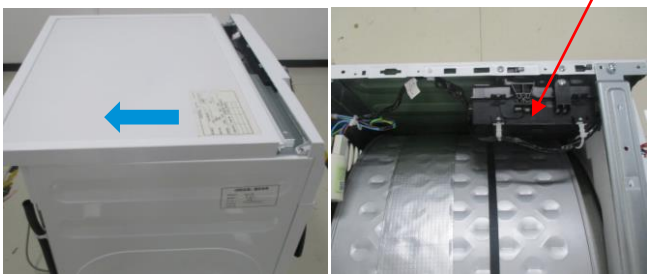


Fig.2





Fig.4

Step 2 Replace the main PCB and check whether the problem can be solved

1. Replace the main PCB. (Fig.5)



Fig.5

07 TROUBLESHOOTING

E64

Check Procedure:

Step 3 Replace the motor and check whether the problem can be solved

1.Remove the Belt and spring. (Fig.6)
2.Disassemble 9 screws on the cover plates and 2 screws on the motor.(Fig.7)
3. Replace the motor.



Fig.6



Fig.7

Step 4 Replace the main harness

1. Replace the main harness. (Fig.8)



(Fig.8)

07 TROUBLESHOOTING

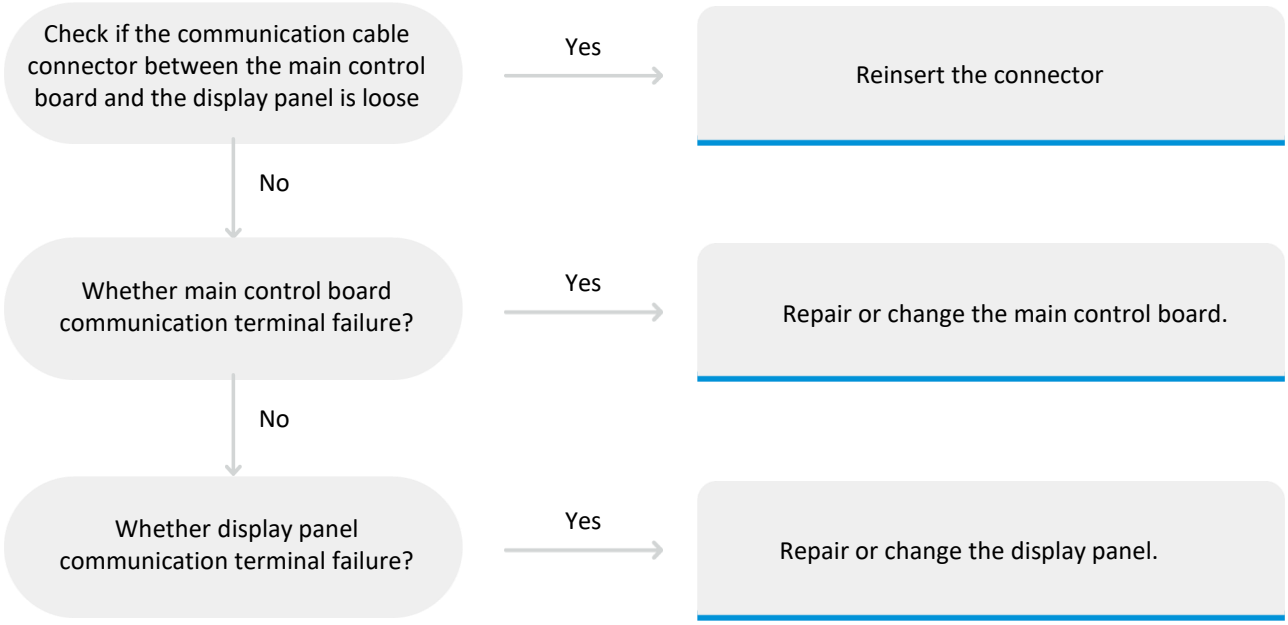
E82

Define: Main control board and display panel communication error.

Reasons: In user mode, if the ping driver remains unresponsive for 3 minutes, an alarm will be displayed.

Malfunction code	Root Reason	Possible cause
E82	There is no communication between main control board and display panel	The communicate cable connector failure between main control board and display panel
		Main control board communication terminal failure
		Display panel communication terminal failure

Check Procedure:



07 TROUBLESHOOTING

E82

Check Procedure:

Step 1 Check the connector between main control board and display panel

1. If the communication cable connector is loosen the E82 warning will occur when the dryer machine is running. It's recommended that user need to confirm the communication cable connector is fixed. (Fig.1)

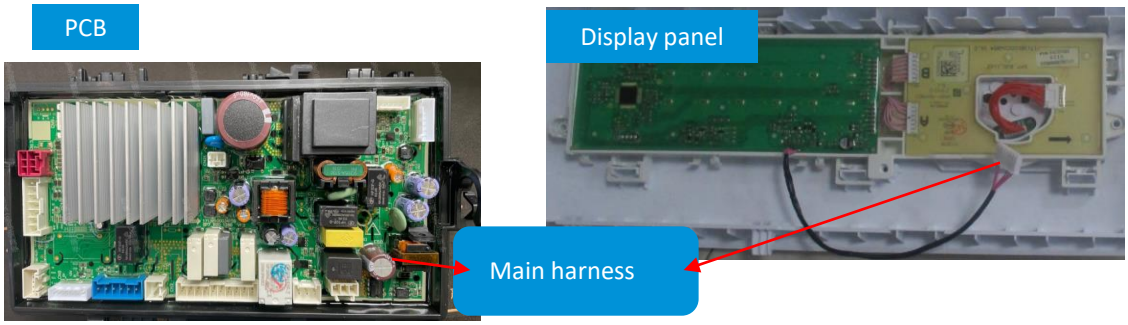


Fig.1

Step 2 Check the main control board communication terminal

1.Check whether the main control board communication terminal is damaged, if it's damaged the E82 warning will occur . It's recommended that the user need to repair or change the main control board. (Fig.2)

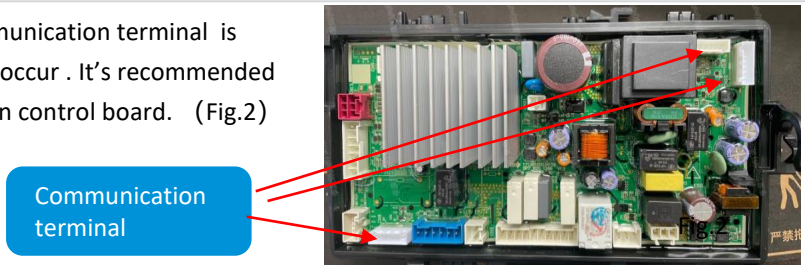


Fig.2

Step 3 Check the display panel communication terminal

1.Check whether the display panel communication terminal is damaged, if it's damaged the E82 warning will occur . It's recommended that the user need to repair or change the display panel. (Fig.3)

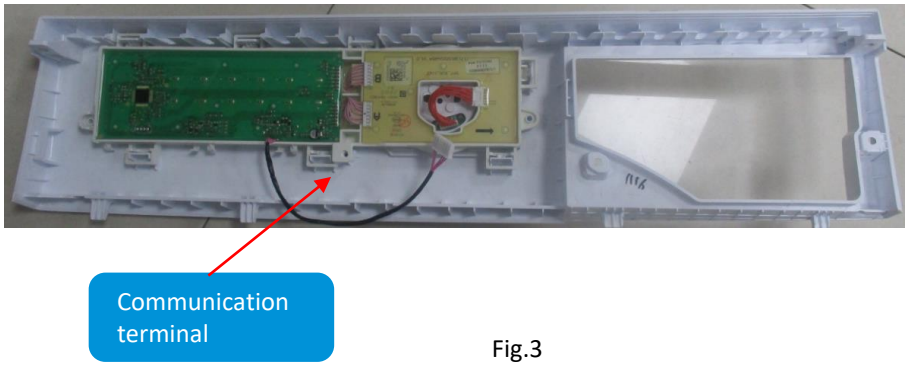
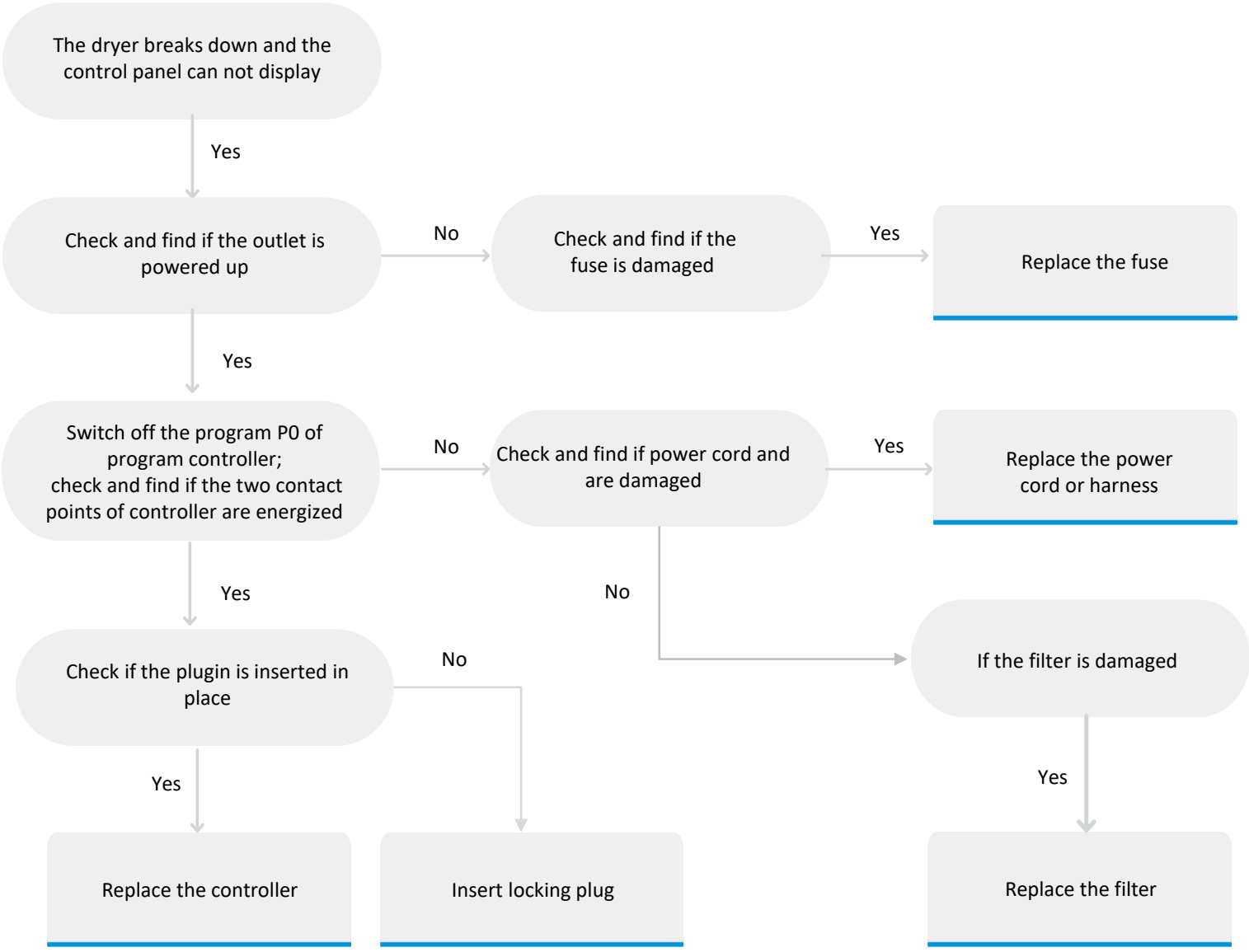


Fig.3

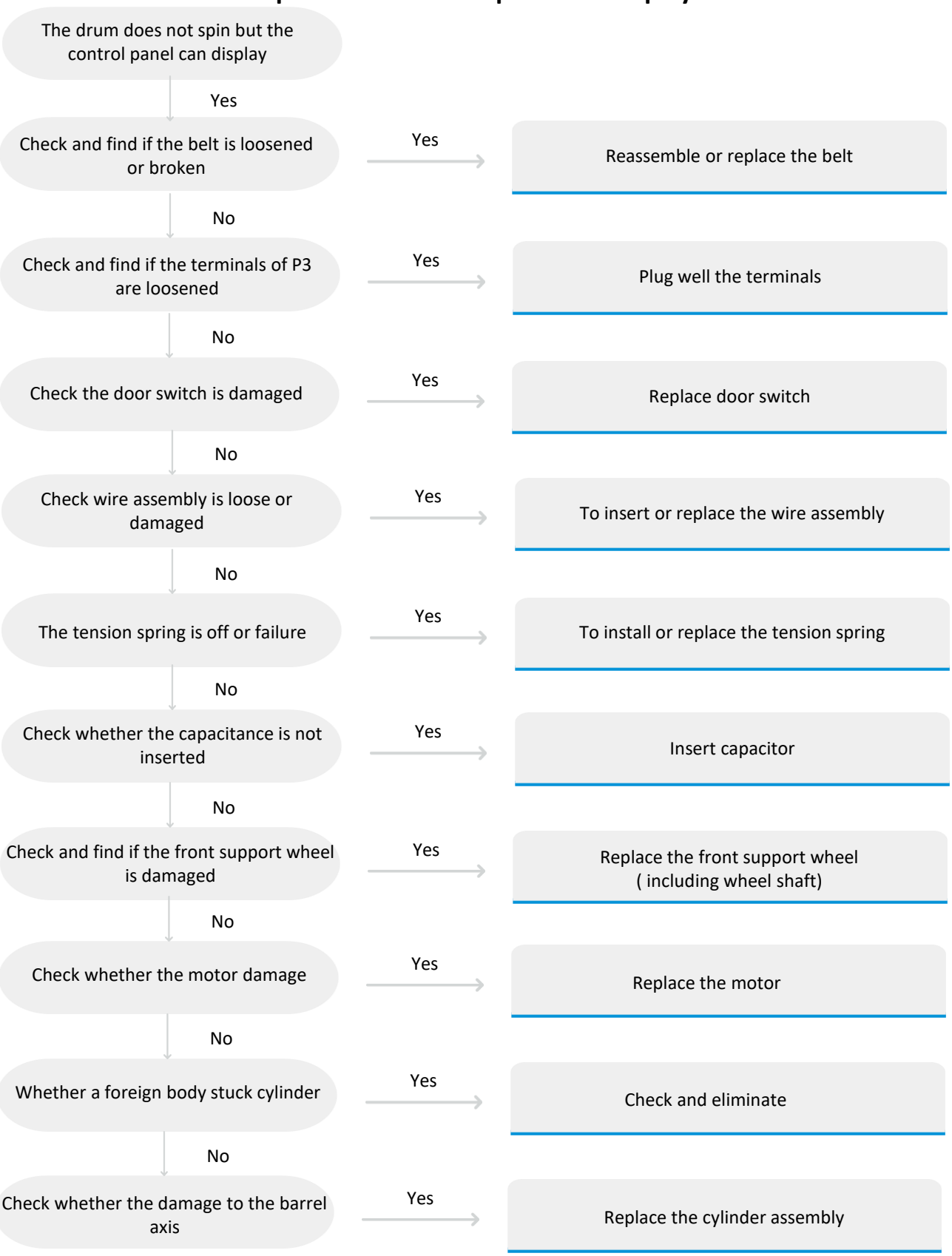
07 TROUBLESHOOTING

7.1 The dryer breaks down and the control panel can not display



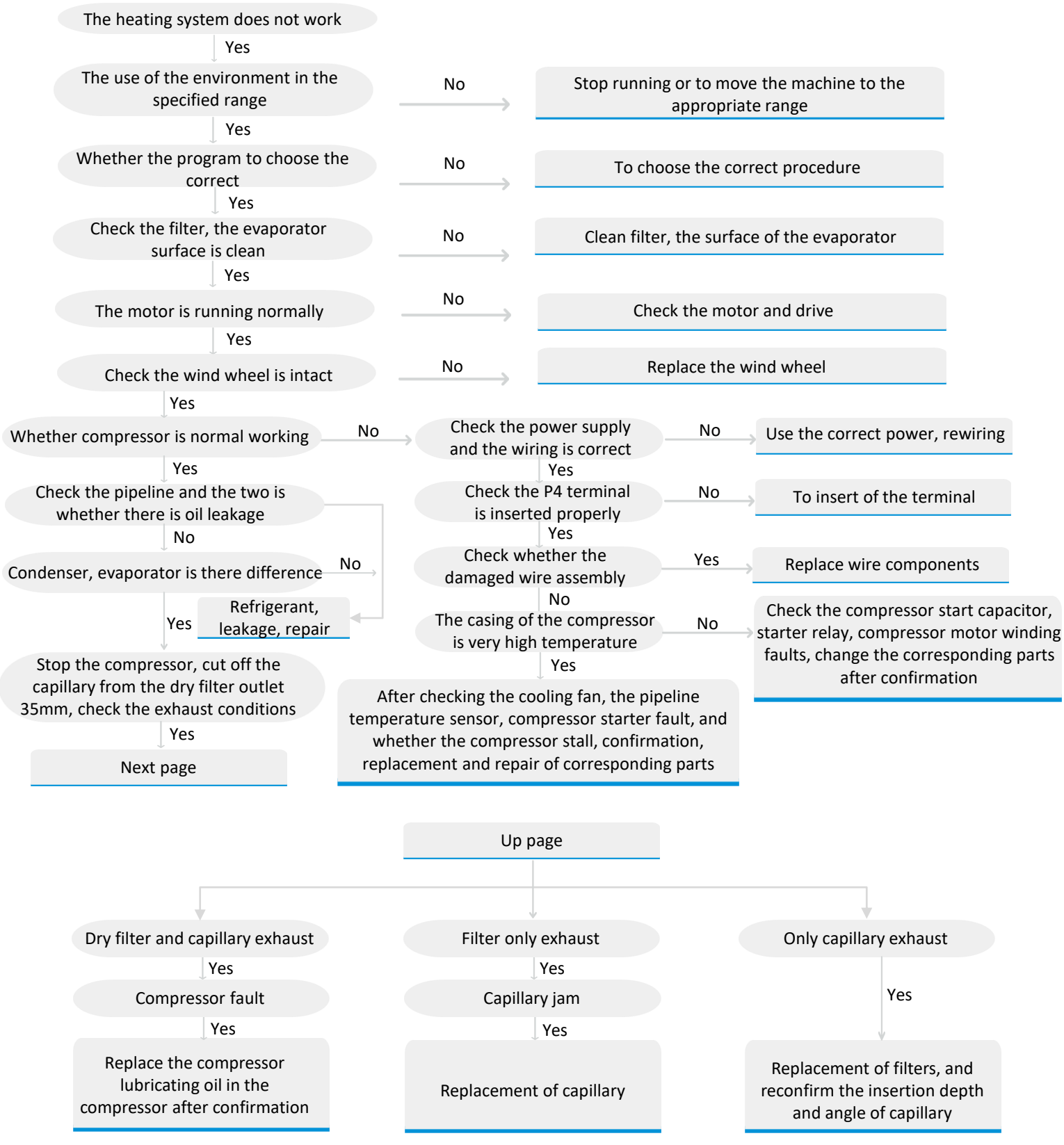
07 TROUBLESHOOTING

7.2 The drum does not spin but the control panel can display



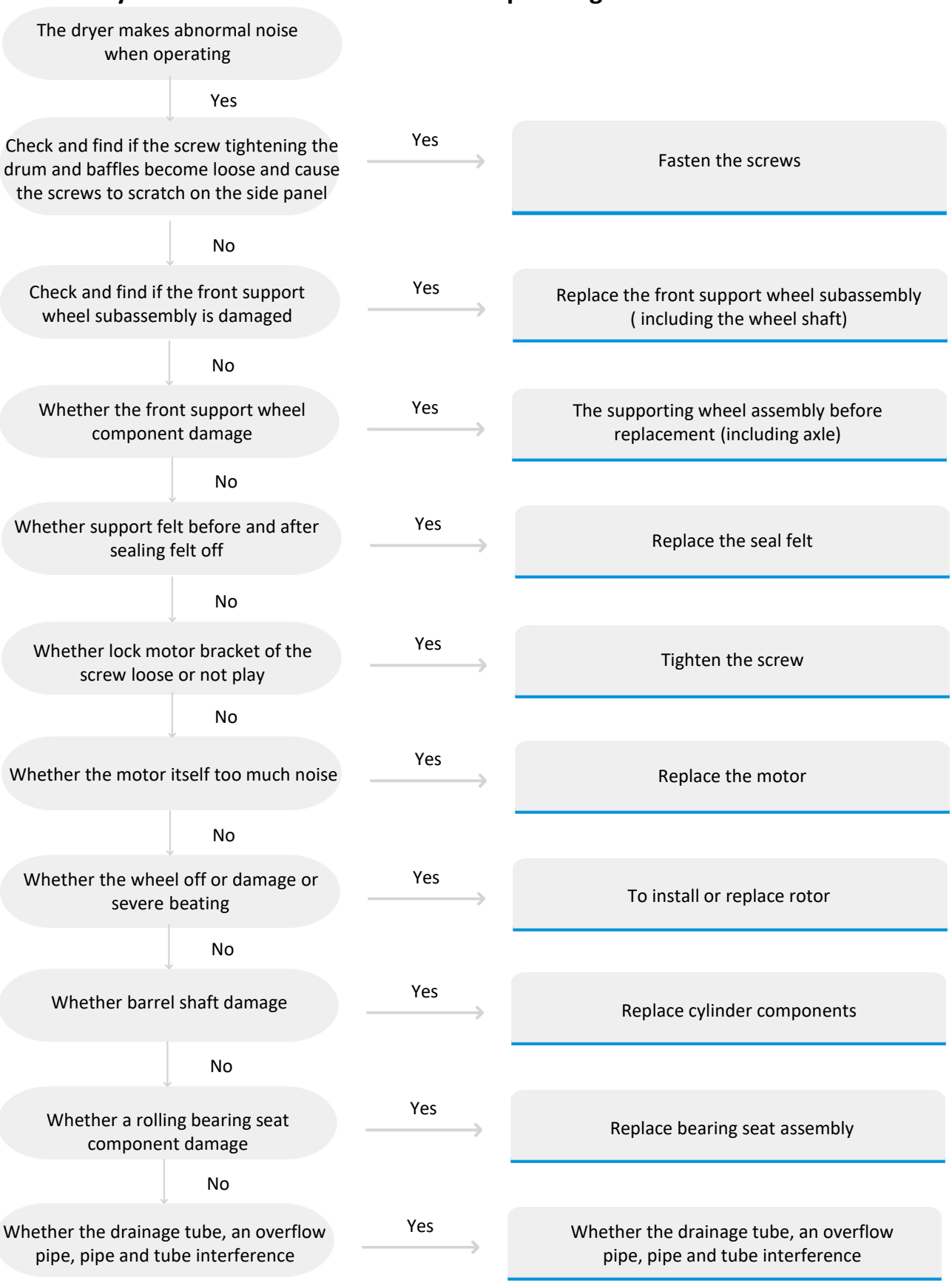
07 TROUBLESHOOTING

7.3 The heating system does not work



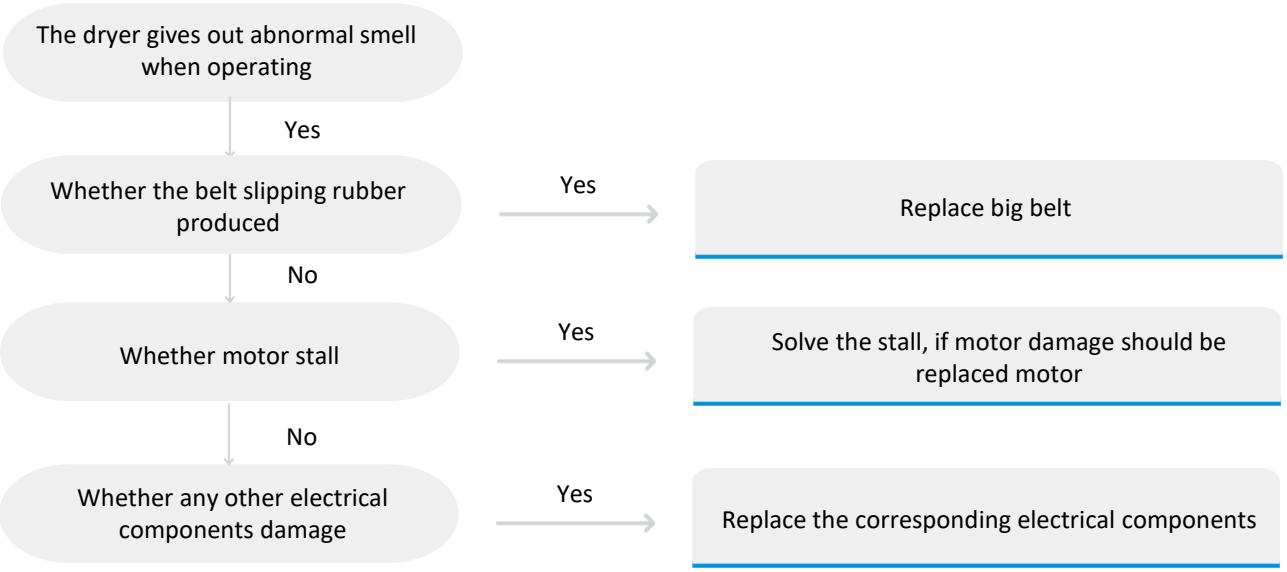
07 TROUBLESHOOTING

7.4 The dryer makes abnormal noise when operating

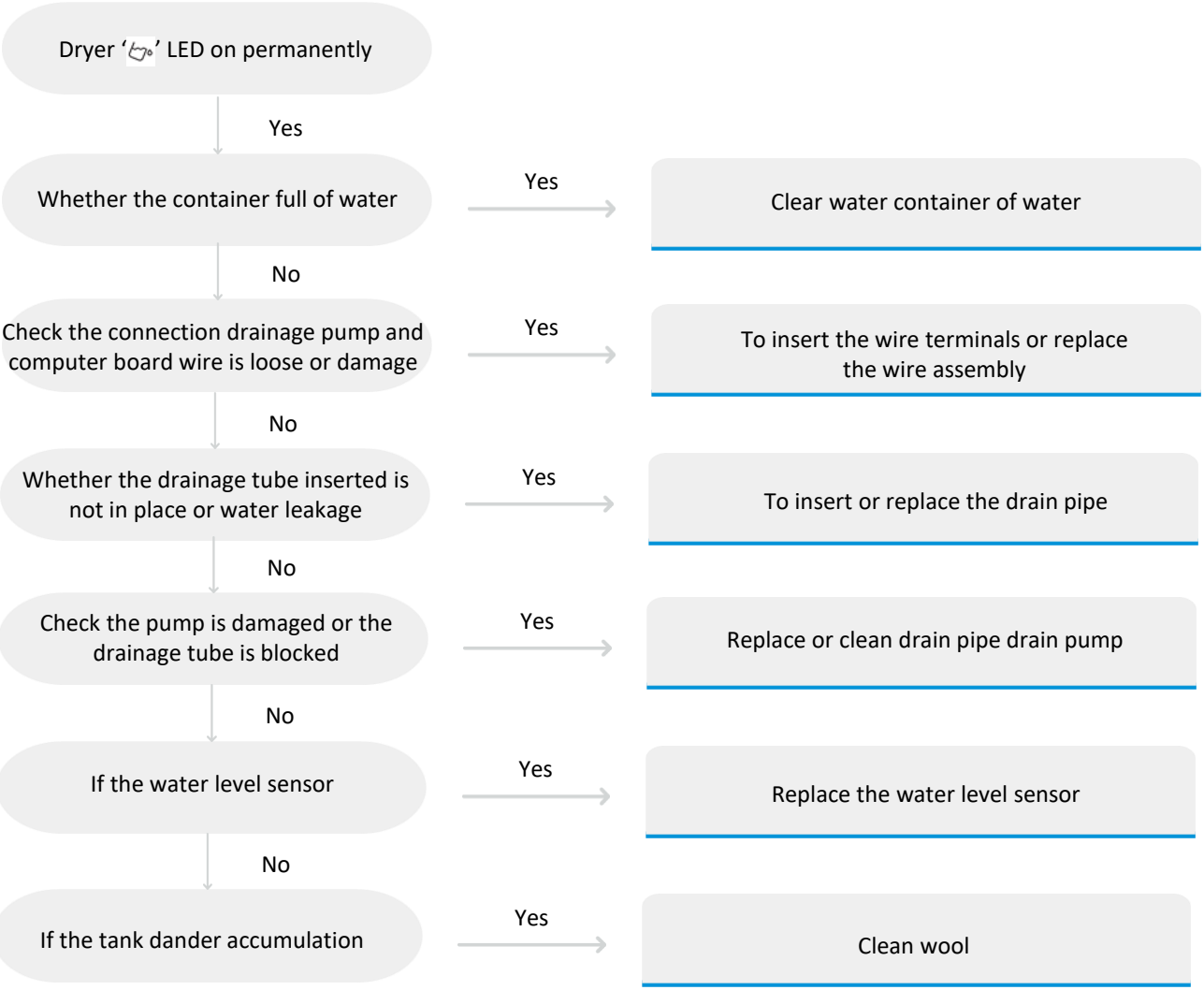


07 TROUBLESHOOTING

7.5 The dryer gives out abnormal smell when operating

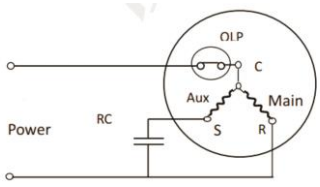


7.6 Dryer's '' LED on permanently



07 TROUBLESHOOTING

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

No	Part	Picture	Test Description	parameters
1	Electric Filter		With a multimeter to test the connection at both ends of the N and L are each turned on. Conducting OK, the replacement is not turned on	250V, 12A, T85 0,47μF+0,33μF+2*（≥4mH）+2*2,2 nF+2*165kΩ
2	Drain Pump		Measured with a multimeter ends of the pump.	AC220-240V，50Hz，CLASS F
3	Water Level Sensor		Conducting both ends with a multimeter test case, disconnect the float at the bottom of the float at the top of turn	10mv-24vAC;10mv-200vDC ,10VA 10W, 10UA-1A(DC)
4	Motor Assembly		Use a multimeter to measure the resistance between any two phases of the motor. Nanyang: ①U~V：14.0 × (1 ± 10%) Ω (20 ℃); ②U~W：14.0 × (1 ± 10%) Ω (20 ℃); ③W~V：14.0 × (1 ± 10%) Ω (20 ℃);	220-240V/50HZ,150W,Al,RoHS
5	Compres-sor		 S: START(Aux Winding) R: RUN(Main Winding) C: COMMON RC: Run Capacitor	Coil Resistance (at 20℃): Main: 2.58±7%Ω Aux: 2.58±5%Ω

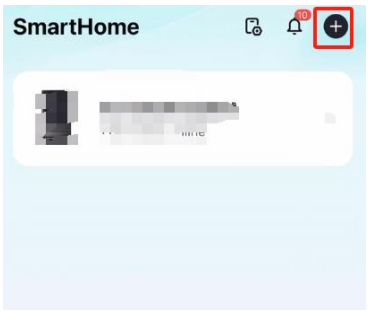
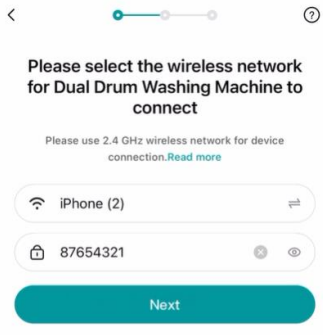
07 TROUBLESHOOTING



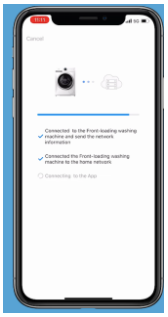
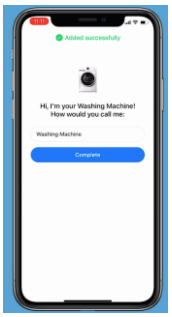


Number	Tools	Suitable kit
1	Sleeve （14#） or spanner	drum tub assembly
2	Sleeve （10#） and pliers	Wheel Assembly
3	Other tools (screwdriver,pliers and so on)	Common service tools
4	Vacuum pump, welding torch, butane and oxygen carrier, pipe cutter and so on.	Weld and cut the pipe Vacuum and charge.

08 IOT CONNECTION

Step	Item
1. Turn on the machine	
2. Open the Bluetooth and app to connect your phone to the product. a. Add the device by the model as photos b. Add the device automatically c. Scan the QR code to add	 
3. Input Wi-Fi password (5G Wi-Fi can't be used)	
4. Long press "Remote" to enter AP mode	

08 IOT CONNECTION

Step	Item
5. It begins to connect automatically a. Here you need to share the QR code to your family and they can connect directly.	 
6. If you want to activate remote control, you need to long press “Remote”.	

The end!