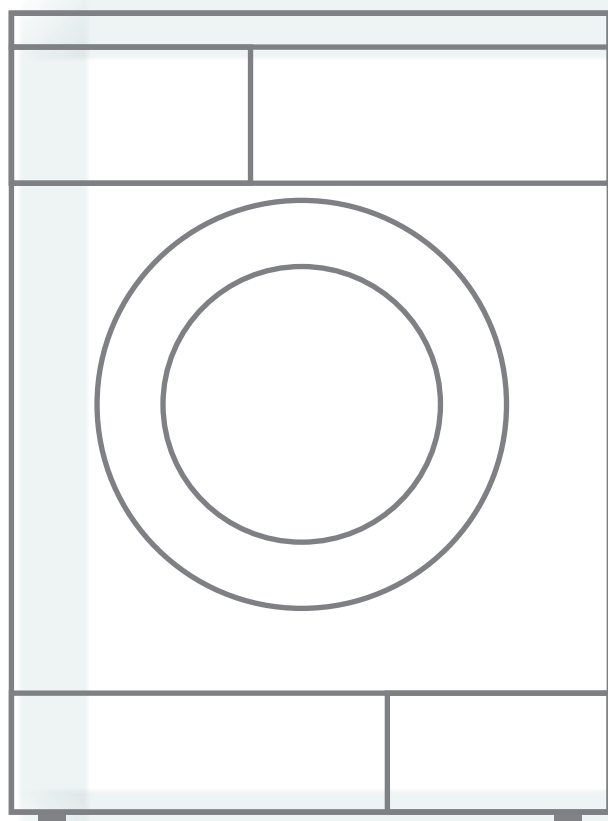


# Tumble Dryer Machine

## Service Manual

MDA60-V012/A0303-GB18



# TABLE OF CONTENTS

---

1 SAFETY PRECAUTION .....	3
1.1 Safety Precaution .....	3
1.2 Warning .....	3
2 OPERATIONAL .....	5
3.SCHEDULE OF FAILURE AND MAINTAIN TREE .....	6
3.1 The Control panel not displayed after selecting the program .....	6
3.2 The drum not worked after selecting the program .....	6
3.3 Maintenance non-heating malfunction .....	7
3.4 Drum worked , but the effect of drying is not good .....	7
3.5 Noise .....	8
3.6 Peculiar smell appears when the dryer is working .....	9
4.PHENOMENON OF THE FAULT .....	10
4.1 The lamp of the control panel is showed ,when you press the power switch .....	10
4.2 Press the power switch andthe "start/pause" button, the lamp is normal but the drum don't turn .....	10
4.3 When a long heating and drying, the clothing doesn' t to be heated .....	10
4.4 Switch on the power source, press the power switch without pressing the"start" button, the dryer start running .....	10
4.5 Switch on the power source, the dryer start running .....	10
4.6 Switch on the power source, press the "start/pause" button, the dryer doesn' t work but alarm .....	11
4.7 The dryer is running, open the door but the dryer still running .....	11
4.8 When the dryer is running, the air volume of outlet was little .....	11
4.9 The dryer keep running a long time while drying fewer clothes .....	11
4.10 The drum of the dryer cannot rotate efficiently .....	11
4.11 When you find the cabinet have current in the using process .....	11
4.12 The key doesn't work under the normal condition .....	11
5.DISASSEMBLY INFORMATION FOR THE PRODUCT .....	12
5.1 Ordinary Information .....	12
5.2 The disassembly methods of Struts .....	12
5.3 Notice .....	18
6.FAULT ALARM DISPLAY.....	19
7.DRYER CIRCUIT DIAGRAMS .....	20
8.DRYER EXPLODED FIGURE .....	21

# 1.SAFETY PRECAUTION

---

## 1.1 Safety Precaution

- To prevent injury to the user or other people and property damage, the following instructions must be followed.
- Incorrect operation due to ignoring instruction will cause harm or damage.
- Before service unit, be sure to read this service manual at first.

## 1.2 Warning

- Do not use a defective or underrated circuit breaker Use this appliance on a dedicated circuit.  
There is risk of fire or electric shock.
- For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized service center .  
Do not disassemble or repair the product, there is risk of fire or electric shock.
- Always ground the product.  
There is risk of fire or electric shock.
- Install the panel and the cover of control box securely.  
There is risk of fire or electric shock.
- Always install a dedicated circuit and breaker.  
Improper wiring or installation may cause fore or electric shock.
- Use the correctly rated breaker of fuse.  
There is risk of fire or electric shock.
- Do not modify or extend the power cable.  
There is risk of fire or electric shock.
- Do not install, remove, or reinstall the unit by yourself (customer).  
There is risk of fire, electric shock, explosion, or injury.
- Be caution when unpacking and installing the product.  
Sharp edges could cause injury, be especially careful of the case edges and the fins on the condenser and evaporator.
- For installation, always contact the dealer or an Authorized service center.  
There is risk of fire, electric shock, explosion, or injury.
- Do not install the product on a defective installation stand.  
It may cause injury, accident, or damage to the product.
- Be sure the installation area does not deteriorate with age.  
If the base collapses, the dryer could fall with it, causing property damage, product failure, and personal injury.
- Take care to ensure that power cable could not be pulled out or damaged during operation.  
There is risk of fire or electric shock.
- Do not place anything on the power cable.  
There is risk of fire or electric shock.

# 1.SAFETY PRECAUTION

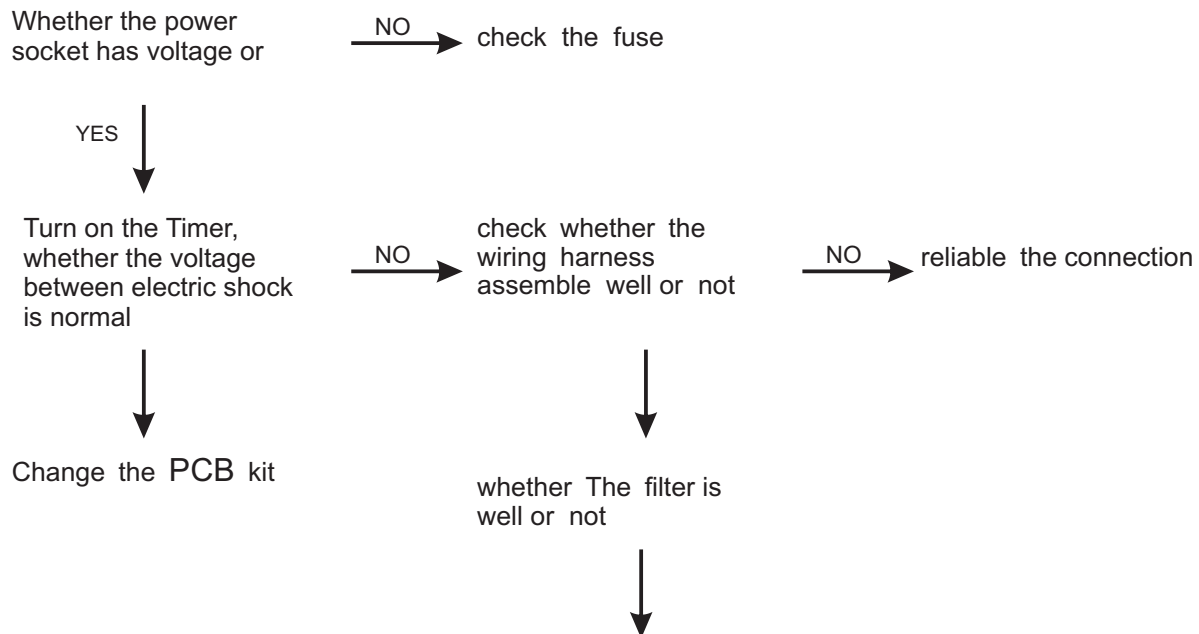
---

- Do not plug or unplug the power supply plug during operation.  
There is risk of fire or electric shock.
- Do not touch (operation) the product with wet hands.  
There is risk of fire or electric shock.
- Do not place a heater or other appliance near the power cable.  
There is risk of fire and electric shock.
- Do not allow water to run into electric parts.  
It may cause fire, failure of the product, or electric shock.
- Do not store or use flammable gas or combustible near the product.  
There is risk of fire or failure of product.
- Do not use the product in a tightly closed space for a long time.  
Oxygen deficiency could occur.
- If strange sounds, or small or smoke comes from product. Turn the breaker off or disconnect the power supply cable.  
There is risk of electric shock or fire.
- Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.  
There is risk of property damage, failure of product, or electric shock.
- Be caution that water could not enter the product.  
There is risk of fire, electric shock, or product damage.
- Turn the main power off when cleaning or maintaining the product.  
There is risk of electric shock.
- When the product is not be used for a long time, disconnect the power supply plug or turn off the breaker.  
There is risk of product damage or failure, or unintended operation.

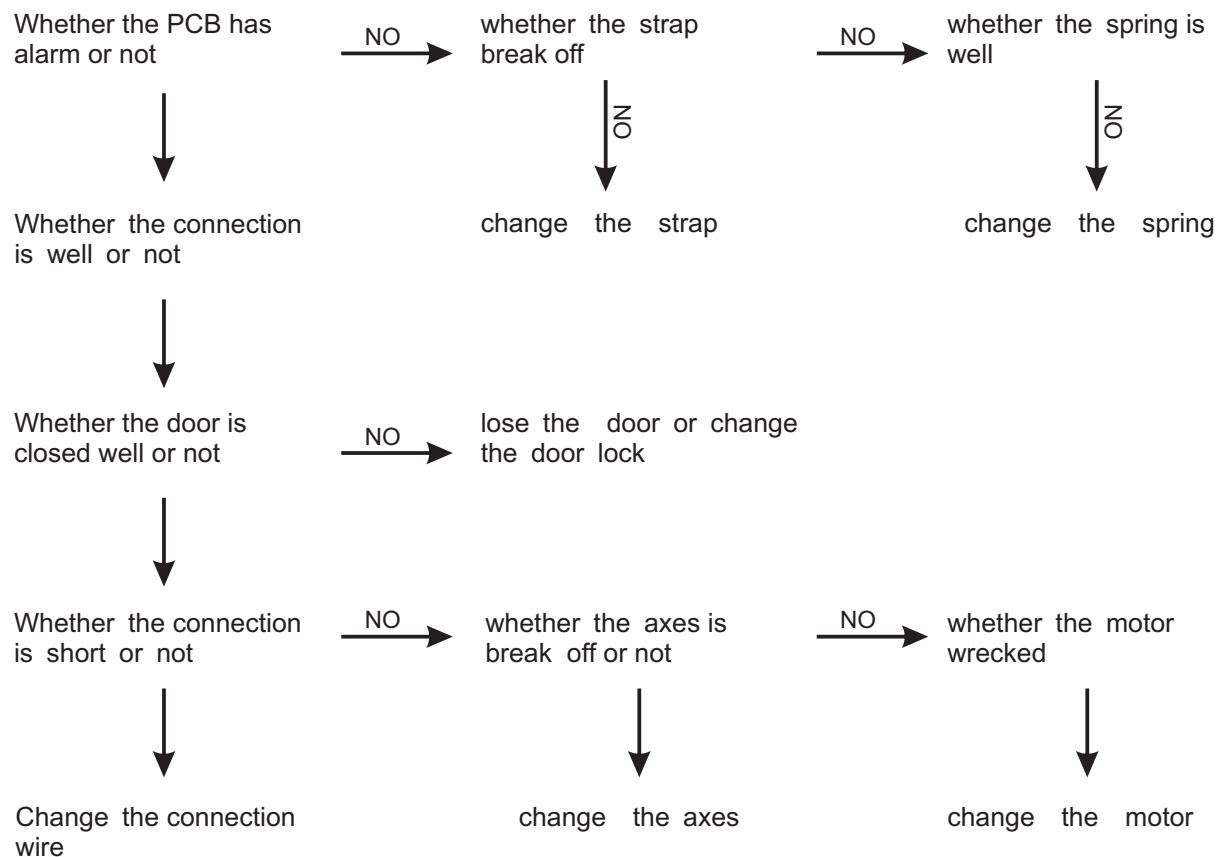
### 3.SCHEDULE OF FAILURE AND MAINTAIN TREE

---

#### 3.1 The Control panel not displayed after selecting the program



#### 3.2 The drum not worked after selecting the program



## 2.OPERATIONAL

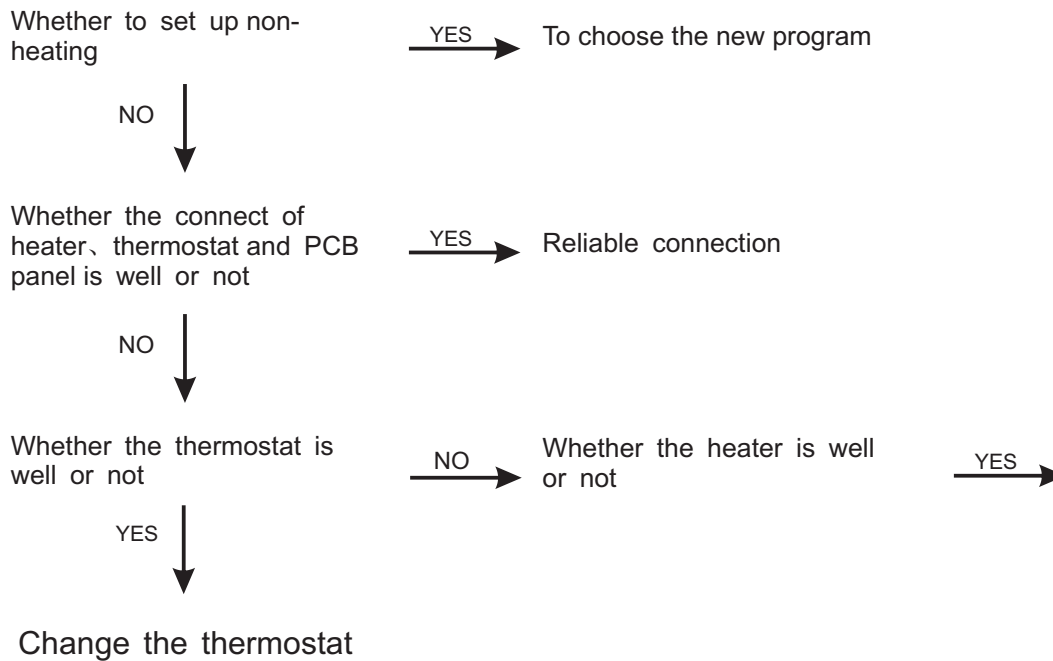
---

Symptom	Check daily notice proceeding
Totally not worked	<p>check that whether has power source or not;</p> <p>check that whether the power socket inserted firmly or not;</p> <p>Check that whether the power switch is on or not;</p> <p>Check that whether press the "start/pause" button or not.</p>
Suddenly stop in operation	<p>Whether the power source stopped if the power source stopped , the program input could be canceled, it does not continue to work;</p> <p>Please input the program again and run it again;</p> <p>Whether the door is open or not.</p>
the key stroke useless	<p>After starting the program, it is just available in the period of drying for both key stroke, if you want to change the setting, please turn off the power, and set it again;</p> <p>Check that whether the "child-lock" if so , press the "heat" and "select" at the same time.</p>
The dryer run well, but the heater not worked	<p>Check that Whether retains the "air-dry" program or in the.</p>

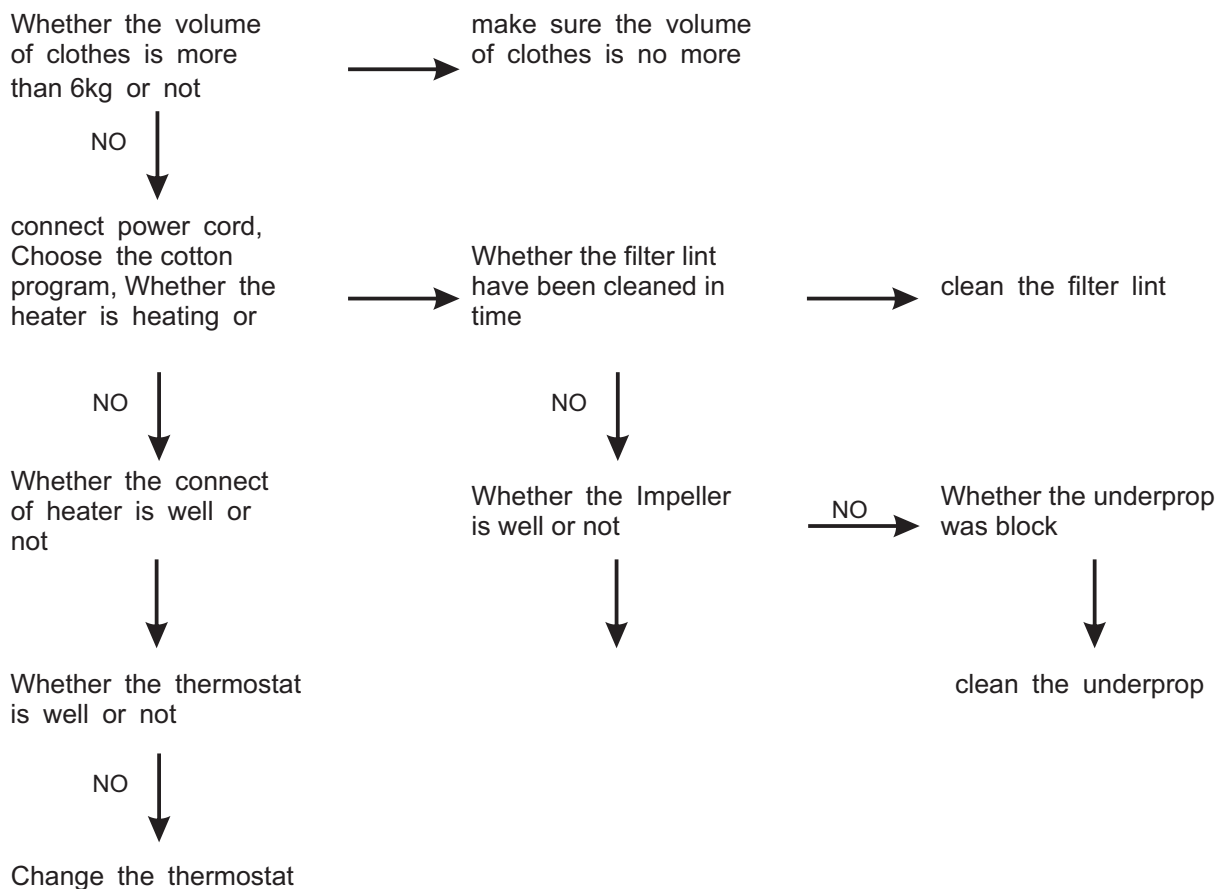
### 3.SCHEDULE OF FAILURE AND MAINTAIN TREE

---

#### 3.3 Maintenance non-heating malfunction



#### 3.4 Drum worked , but the effect of drying is not good

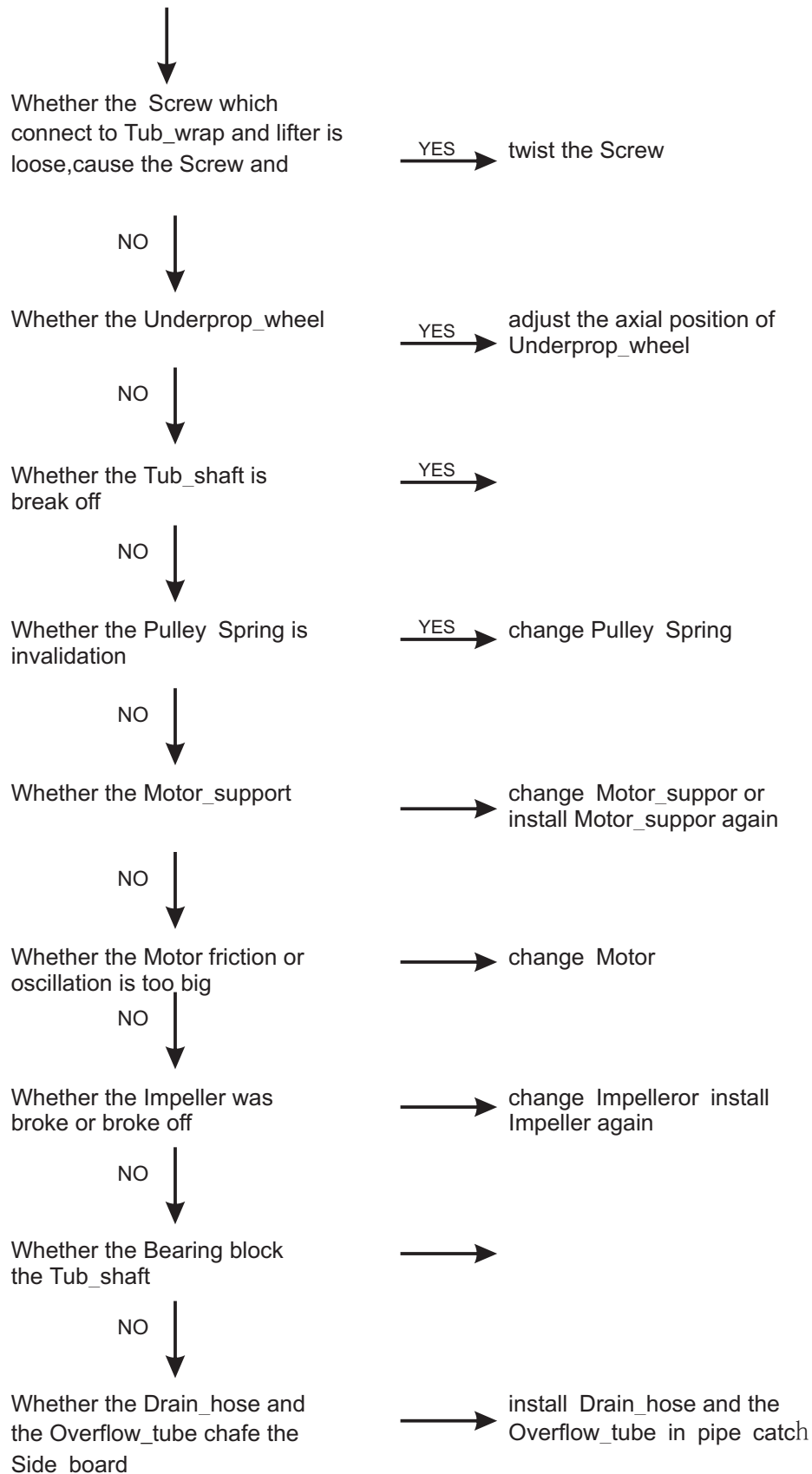


### 3.SCHEDULE OF FAILURE AND MAINTAIN TREE

---

#### 3.5 Noise

Check the source of voice

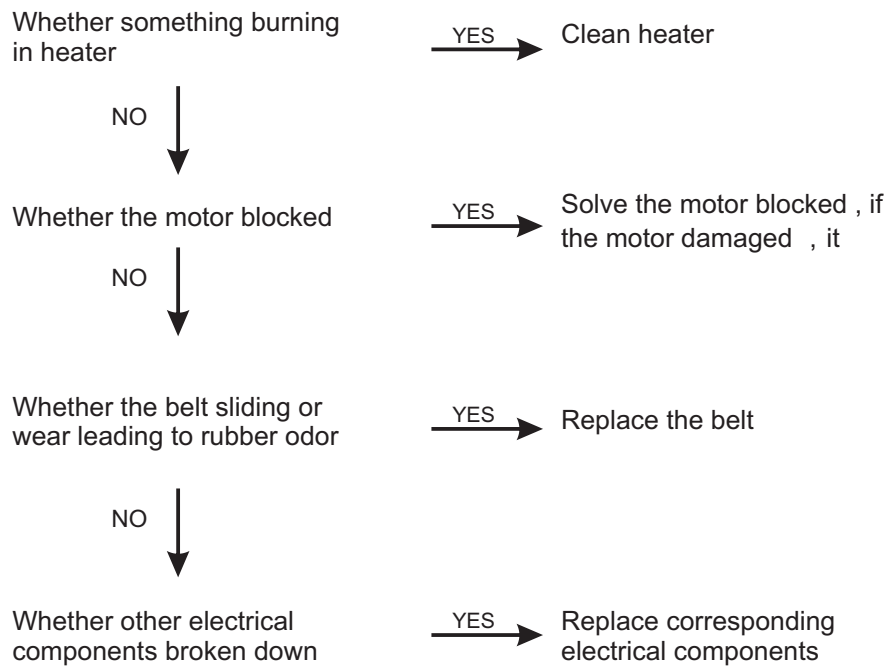




### 3.SCHEDULE OF FAILURE AND MAINTAIN TREE

---

#### 3.6 Peculiar smell appears when the dryer is working



## 4.PHENOMENON OF THE FAULT

---

4.1 The lamp of the control panel is showed ,when you press the power switch.

Analysis and maintenance:

- 1.Check the power supply, whether power or socket contact undesirable.
- 2.Check the power wiring rack whether installed in place or not PCB board, see if the problem has been solved.
- 3.Check the line plug in the computer board, if it is normal, change into a new PCB board, see if the problem has been solved .

4.2 Press the power switch and the "start/pause" button, the lamp is normal but the drum don't turn.

Analysis and maintenance:

- 1.First check whether the door is closed, if it can't run when the door is already closed and switch normally, enter into steps 2.
- 2.If the motor works normally, maintenance methods are:
  - a.First check the cabinet or the top cover is seriously distortion ;
  - b.If there is no seriously distortion, check the belt is damaged or installation does not get the right position. Replace the belt if it has damaged. Install the belt to the right position if it is not. ;
  - c.If the belt is ok, check the pulley kit whether it is working correctly. If pulley kit can't move or resistance, replace pulley kit and pulley kit pin shaft. If support kit for tighten wheel deformation leading to pulley kit can't work, Replace the support kit for tighten wheel. If the spring of the pulley kit to fall or too loose s, replace the spring;
  - d. If the case were not there, check whether the belt has slip .If the belt slip, replace the belt.
- 3.If the motor can't work,maintenance method is:
  - a. Check the line of the PCB board correctly, whether the wiring are fracture;
  - b.Check whether the capacitance and motor are matching, whether the wiring are put in good position;
  - c.Use the new capacitance to test If the motor running normally, the capacitance proved to be broken. otherwise the motor proved to be broken, Replace motor.
  - d.f there is no problem with motor and capacitor, replace PCB board.

4.3 When a long heating and drying, the clothing doesn't to be heated.

Analysis and maintenance:

- 1.Check whether reset thermostat is ok, find the reason that caused this action, reset after solved this problem;
- 2.Else, check whether the pin of heater fixed well;
- 3.Check whether the units on PCB board connected tightly;
- 4.Check whether the impedance of heater was normal;
- 5.Check whether the impedance of temperature sensor was normal;
- 6.When there is no problem above, change the PCB board.

4.4 Switch on the power source, press the power switch without pressing the “start” button, the dryer start running.

Analysis and maintenance:

This might caused by the fault of PCB board, make the “start/pause” button not work. Then take off the control panel, and replace the PCB board.

4.5 Switch on the power source, the dryer start running.

Analysis and maintenance:

This might caused by the fault of PCB board, take off the control panel, and replace the PCB board.

## 4.PHENOMENON OF THE FAULT

---

4.6 Switch on the power source, press the “start/pause” button, the dryer doesn’t work but alarm.

Analysis and maintenance:

This might caused by the fault of door lock, make the PCB board detected that the door is open and alarmed, replace the door switch.

4.7 The dryer is running, open the door but the dryer still running.

Analysis and maintenance:

This might caused by the fault of door lock, make the PCB board detected that the door is closed, replace the door switch.

4.8 When the dryer is running, the air volume of outlet was little.

Analysis and maintenance:

- 1.Check whether the inlet was obstructed; keep the freely flowing of air inlet;
- 2.Check whether the filter was obstructed, get it out and cleaned.

4.9 The dryer keep running a long time while drying fewer clothes.

Analysis and maintenance:

It is suggest to you take the 1 hour program. If it still cannot solve the problem, please check the thermostat and replace it after you are sure the thermostat is error.

4.10 The drum of the dryer cannot rotate efficiently.

Analysis and maintenance:

The dryer cannot work efficiently when you put the clothes of rated capacity. It may be caused by the questions:

- 1.Due to the belt had been fretted away flabbily and the wedge type is damaged,.the belt works skidded . And then the weak belt make the drum of the dryer cannot rotate efficiently. In this case, please replace the belt;
- 2.The extenuation of the spring of the pulley spring leads to the weak force of pulley . This can also make the belt skidding and the drum of the dryer cannot rotate efficiently. In this case, please replace the pulley spring;
- 3.Because of the faulty connection of the capacitor, the motor cannot work normally;
- 4.Maybe the capacitor is aged. In this case, please replace the capacitor.

4.11 When you find the cabinet have current in the using process.

Analysis and maintenance:

You should check it drain current or faradic current. It is very dangerous if it caused by drain current. It is usually caused by some electrical parts are short-circuited or damaged by moisture or the wire's insulative parts touch the metal parts under the fracture, etc. It is the faradic current if you find the electroprobe light when you put it on the dryer's cabinet. In this case, please check the dryer grounded. or not. You should check it and exclude it

4.12 The key doesn't work under the normal condition.

Analysis and maintenance:

The dryer's key doesn't work under the normal condition, it may be caused by the questions:




- 1.The button is dropped or dislocated;
- 2.The key of the control panel is partly damaged;
3. The key of the PCB board is broken.

## 5.DISASSEMBLY INFORMATION FOR THE PRODUCT

### 5.1 Ordinary Information.

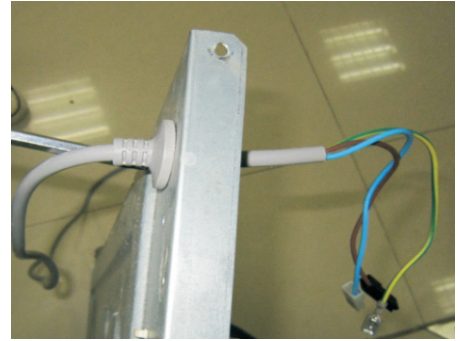
- 1.Please unplug the power cord when you disassemble or maintain the product;
- 2.Please use the regulation connector lug between the wires as much as possible. Then crimp them firmly by the proper tools and bundle them by the insulating tape;
- 3.When you plug the wires, please insert the plug to the bottom so it is not easily to be unplugged;
- 4.Make sure that the wires cannot touch the mobile part such like the drum, and also cannot touch the sharp/hard-edged party and high-heat part (motor);
- 5.Please preserve the screws when you take them down. You will use them when you install the dryer;
- 6.ometimes you must operate the dryer when it is electriferous . In this case, you must be careful and pay attention to the electric shock.

### 5.2 The disassembly methods of Struts:

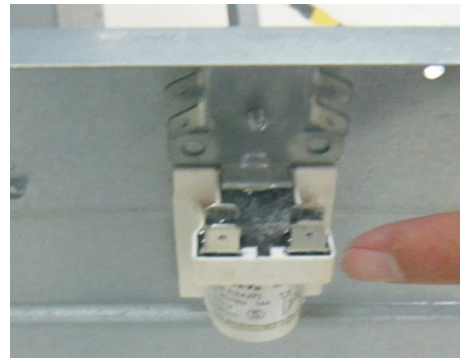
Steps of disassembling machine	Pictures
<ol style="list-style-type: none"><li>1. Remove the top cover components of the case<ol style="list-style-type: none"><li>(1) Remove the screw cap;</li><li>(2) Remove the screws fixed roof component;</li><li>(3) Take out the roof component.</li></ol></li></ol>	
<ol style="list-style-type: none"><li>2.Remove the back board component of the case<ol style="list-style-type: none"><li>(1) remove the screws fixed back board ;</li><li>(2) remove the screws fixed thermostat support component;</li><li>(3) pulled out wire harness assembly and Line firm and terminal connected with back board;</li><li>(4) take down the back board component.</li></ol></li></ol>	
<ol style="list-style-type: none"><li>2-1. Removed the back vent flange</li></ol>	

## 5.DISASSEMBLY INFORMATION FOR THE PRODUCT

2-2. Remove the power line



2-3. Remove the filter



3. remove the door component (including the door hinge)  
(1) remove the screws fixed door hinge;  
(2) take down the door component and hinge.



3-1. remove the door hinge, front door and back door frame

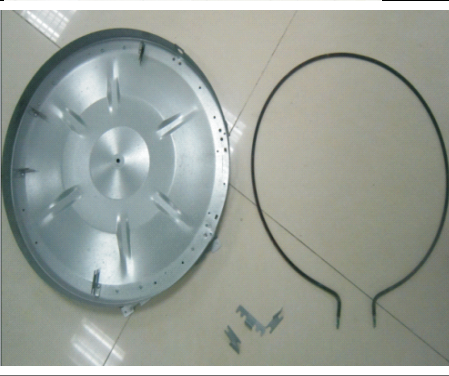



4. Remove the inner tub assy  
(1) Remove the reinforced plate;  
(2) take out the belt from the motor shaft ;  
(3) removed the screws which is fixed drum kit and the automatic thermostat;  
(4) pull out the terminal connected wire with heating pipe;  
(5) take out the drum kit and the belt.

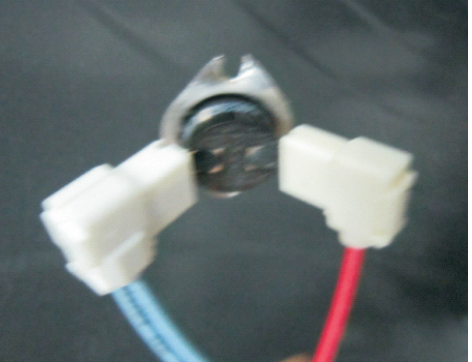
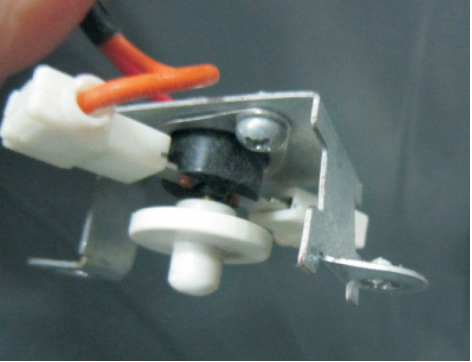







## 5.DISASSEMBLY INFORMATION FOR THE PRODUCT

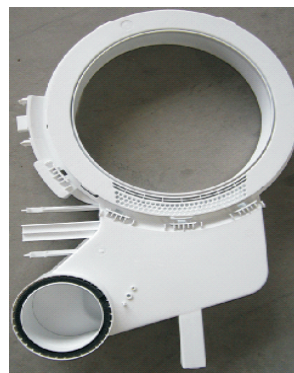
<p>4-1. Remove the body of drum, lifting bar, heating pipe cover and drum shaft, etc</p>	 <p>A collection of disassembled parts including a circular metal drum body, a lifting bar, a heating pipe cover, and a drum shaft.</p>
<p>4-2. Remove the heating pipe, heating pipe cover and its support</p>	 <p>The heating pipe, its cover, and its support structure are shown disassembled.</p>
<p>5. Remove the control panel component (1) removed the screws fixed control panel component; (2) Pull out the terminals connected wire with PCB board.</p>	 <p>The control panel component is shown being removed from the main unit.</p>
<p>5-1. Remove the control pannel, PCB board and buttons, etc</p>	 <p>The control panel, PCB board, and buttons are shown disassembled.</p>
<p>6. Remove the wiring harness (including the thermostat) (1) remove all the line firm fixed wires; (2) pull out the terminals connected the wires with the motor and the door switch ; (3) take out the wires.</p>	 <p>The wiring harness, including the thermostat, is shown disassembled.</p>

## 5.DISASSEMBLY INFORMATION FOR THE PRODUCT

6-1. Remove the automatic thermostat	
6-2. Remove the support components of the manual thermostat	
6-3. Remove the manual thermostat	
7. Remove the front plate assembly (1) remove the screws fixed front plate assembly; (2) take out the front plate assembly	
7-1. remove the door switch plate	

## 5.DISASSEMBLY INFORMATION FOR THE PRODUCT

7-2. Remove the support components of the drum



7-3. Remove the door gasket and front plate



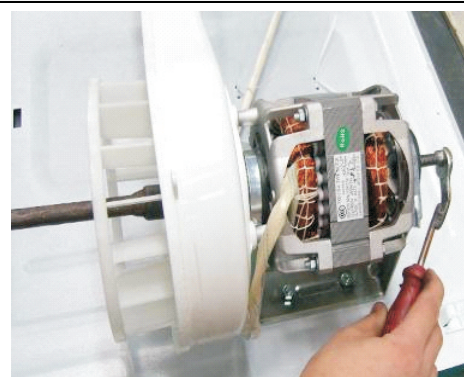
8. Remove the side plates and base assembly  
(1) remove the screws fixed side plates;  
(2) take out the side plates and base assembly.



8-1. Remove the front air duct



8-2. Remove the impeller



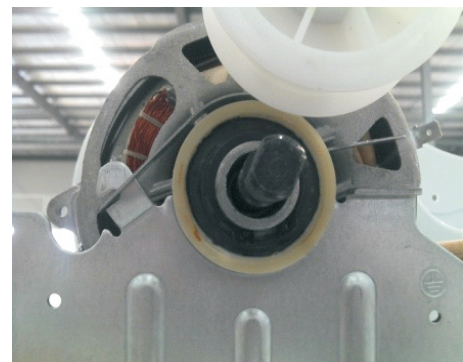


## 5.DISASSEMBLY INFORMATION FOR THE PRODUCT

8-3. Remove the fixd block of the motor



8-4. Remove the fixd stator of the motor



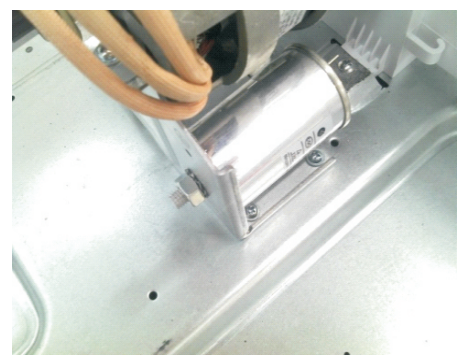
8-5. Remove the tight spring



8-6. Take out the motor components

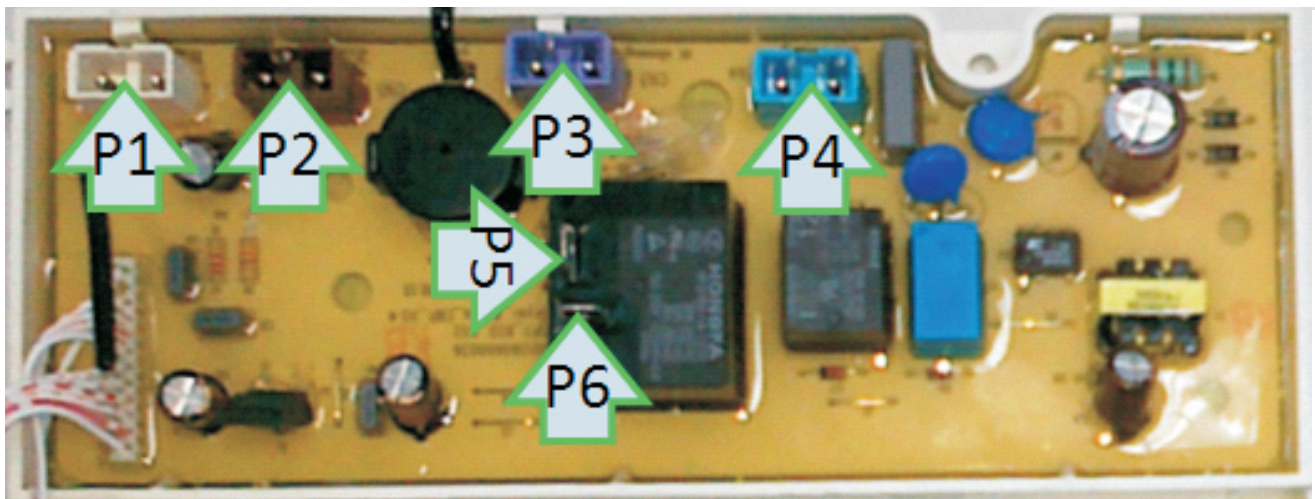
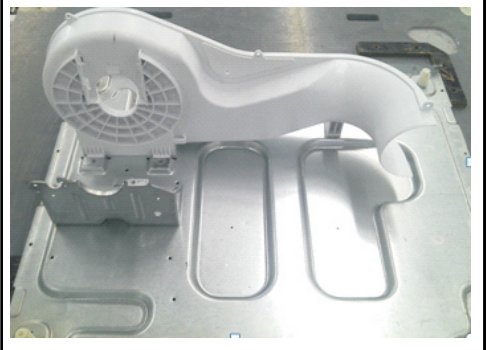


8-7. Remove the capacitance



## 5.DISASSEMBLY INFORMATION FOR THE PRODUCT

8-8. Remove the motor bracket, Bottom plate and the air duct



P1 (white)	Temperature sensor
P2 (brown)	Door switch
P3 (purple)	Motor
P4 (blue)	Power cord
P5 (metal)	Heating pipe
P6 (metal)	Heating pipe

### 5.3 Notice.

- 1.When you Remove the cabinet motherboard, pay attention to wear Gloves in case hurting your hands;
- 2.Do not rub the Cabinet in order not to influence its nicety;
- 3.Pay attention to take all the screws and stuff trimly;
- 4.When you install all the screws, make sure all the screws firmly and not ineffectively.