Kleenmaid Dryer

Model:KCDV60

Service Manual

Note：

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

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1 Precaution

When performing troubleshooting and part replacement during servicing, note the following safety precaution.

1-1.Safety Precautions

1-1-1.Use Genuine Parts
The components of the Tumble Dryer machine have safety features such as non-combustibility and voltage withstanding. Therefore, always use the same part as suggested by the maker. In particular, be sure to use only designated parts in case of major safety parts identified by the marker.

1-1-2.Grounding
Connect the grounding wire to the shell plate, and bury it under at least 25cm of earth: alternatively, connect the ground wire to the appropriate pin on a properly grounded power receptacle. Never connect the wire to a telephone line, lightning rod, or gas pipe.

1-2. Servicing Precautions

1-2-1. Observe Warnings
Be sure to follow special warning and precautions that are described on part labels and in the owner's manual.

1-2-2. Parts Assembly and wiring
Be sure to use insulation material (such as tube and tape). And be sure to restore all parts and wires to their original position. Take special care to avoid contact with sharp edges.

1-2-3 Perform Safety Checks after Servicing
After servicing, check to see that the screws, parts, and wiring are restored to their original positions, and check the insulation between the external metals and the socket plug. In addition, place the Tumble Dryer machine in a level position (less than 1(one) degree) to prevent vibration and noise during operations.

1-2-4.Insulation Checks
Pull out the plug form the power receptacle, pour water into the spin tub, and then set the timer. Check to see that the resistance insulation between the terminals of the plug and the externally exposed metal is greater than 1M.

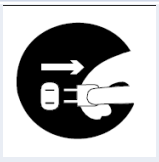
Note: When it is impossible to perform insulation check with a 500V insulation resistance tester, use other testers for inspection.

1 Precaution

1.3 Cautions For Safety

- 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
	Caution : Read the operator's manual before using this product!
	caution, hot surface
	caution, risk of fire
 **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.

2 Unpacking Ways Of Main Parts

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;

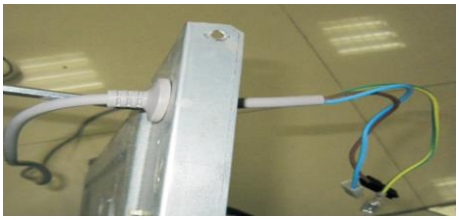
3.When you plug the wires, please insert the plug to the bottom so it is not easily to be unplugged;

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);

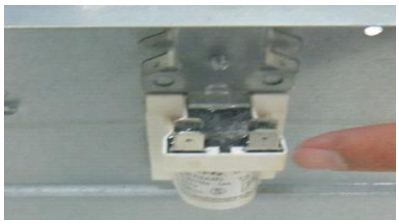
5.Please preserve the screws when you take them down. You will use them when you install the dryer;

6 6.Sometimes you must operate the dryer when it is electriferous. In this case, you must be careful and pay attention to the electric shock.

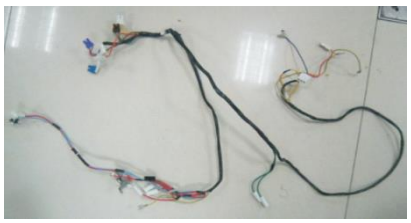
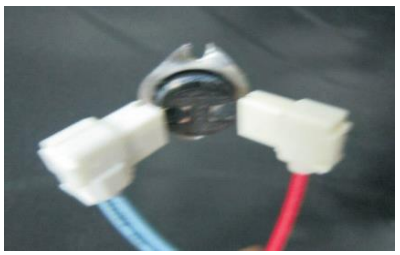
2 Unpacking Ways Of Main Parts

Steps of disassembling machine	Pictures
1. Remove the top cover components of the case (1) Remove the screw cap; (2) Remove the screws fixed roof component; (3) Take out the roof component. ⚠ WARNING UNPLUG POWER ■ Unplug the power cord for the work unnecessary to power on like disassembling. Do not hold the plug may cause an electric shock	
2.Remove the back board component of the case (1) remove the screws fixed back board ; (2) remove the screws fixed thermostat support component; (3) pulled out wire harness assembly and Line firm and terminal connected with back board; (4) take down the back board component.	
2-1. Removed the vent flange	
2-2. Remove the power line	

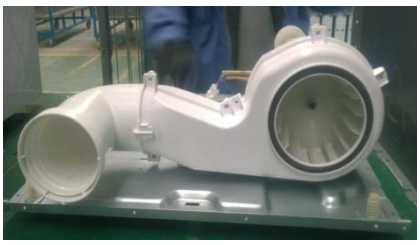
2 Unpacking Ways Of Main Parts

Steps of disassembling machine	Pictures
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 assey (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.	
4-1. Remove the body of drum, lifting bar, heating pipe cover and drum shaft, etc	
4-2. Remove the heating pipe, heating pipe cover and its Support	

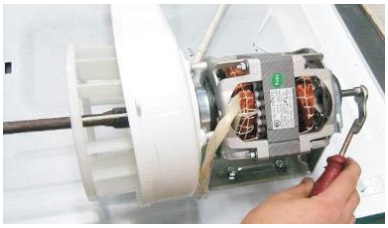
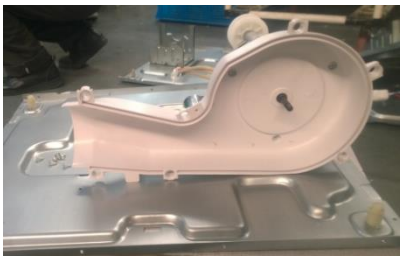
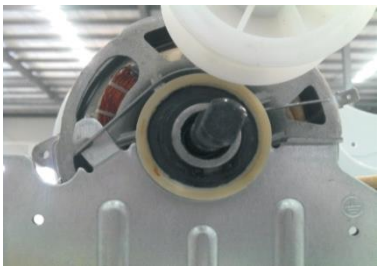
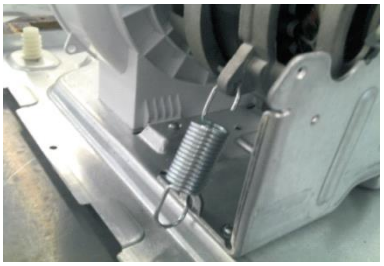
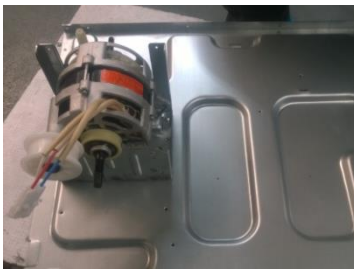
2 Unpacking Ways Of Main Parts

Steps of disassembling machine	Pictures
5. Remove the control panel component (1) removed the screws fixed control panel component; (2) Pull out the terminals connected wire with PCB board.	
5-1. Remove the control pannel, PCB board.	
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.	
6-1. Remove the automatic thermostat	
6-2. Remove the support components of the manual Thermostat	
6-3. Remove the manual thermostat	

2 Unpacking Ways Of Main Parts

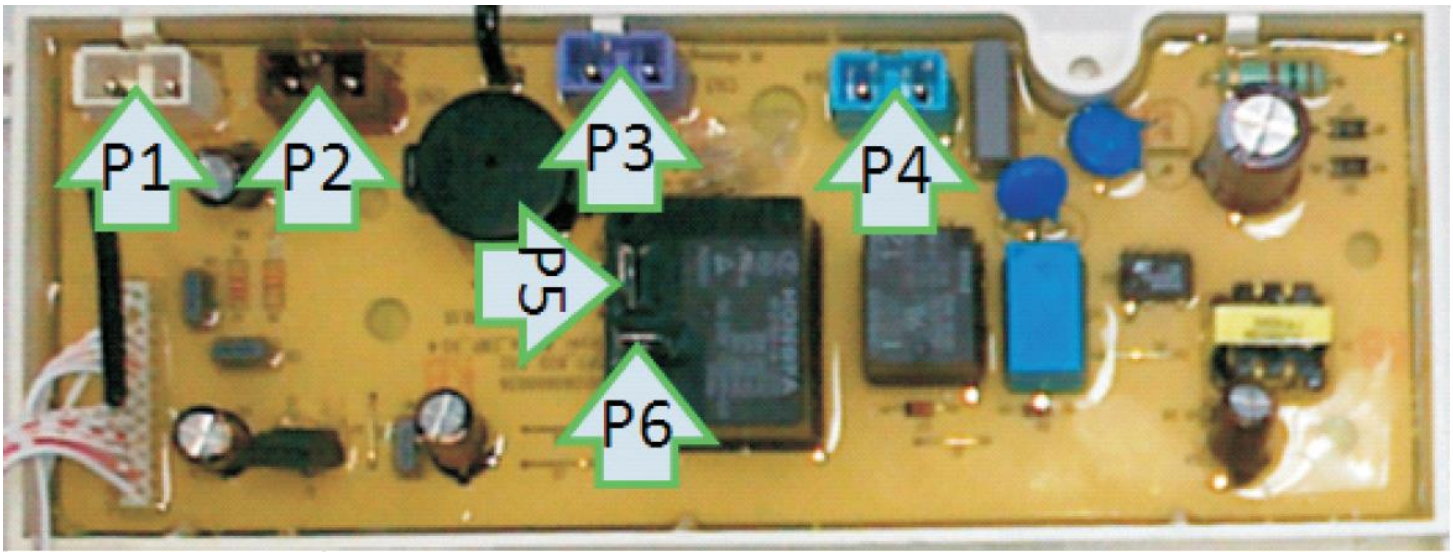
Steps of disassembling machine	Pictures
7. Remove the front plate assembly (1) remove the screws fixed front plate assembly; (2) take out the front plate assembly	
7-1. remove the door switch plate	
7-2. Remove the support components of the drum	
7-3. Remove the door gasket and front plate	
8. Remove 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 front vent pipe and front air flue	

2 Unpacking Ways Of Main Parts

Steps of disassembling machine	Pictures
8-2. Remove the impeller	
8-3. Remove the fixd screws and rear air flue	
8-4. Remove the fixd stators of the motor	
8-5. Remove the tight spring	
8-6.Take out the motor components	
8-7. Remove the capacitance	

2 Unpacking Ways Of Main Parts

Steps of disassembling machine	Pictures
8-8. Remove the motor bracket, Bottom plate	



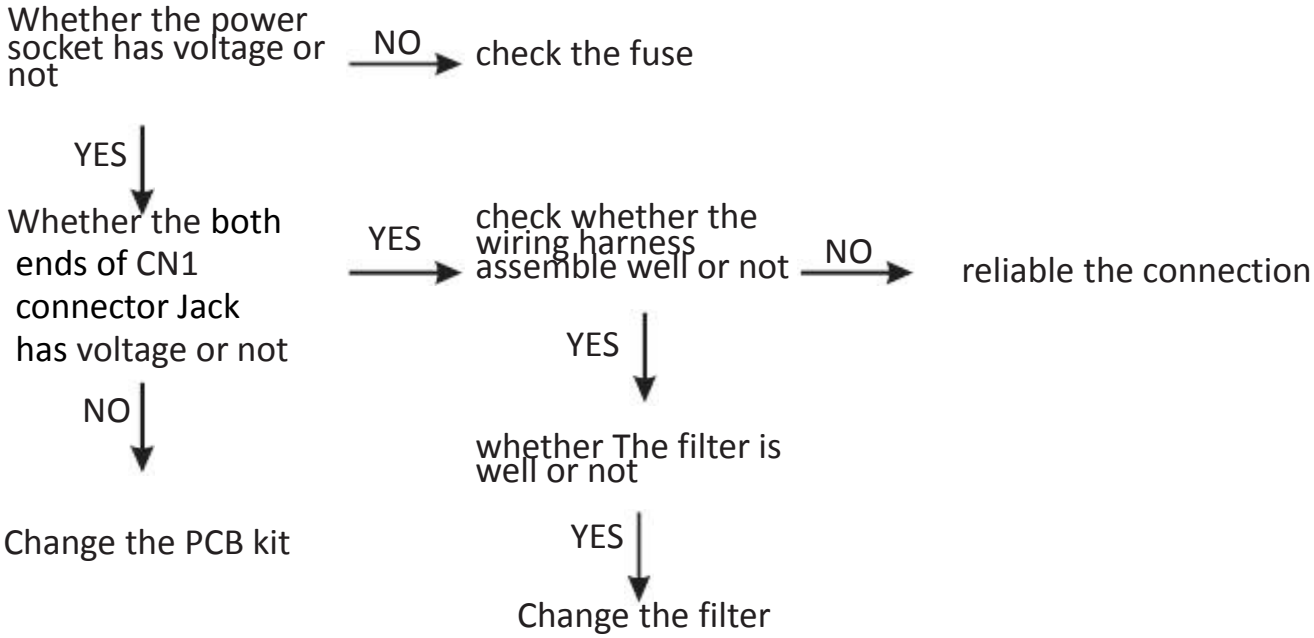
P1(white)	Temperature sensor
P2(brown)	Door switch
P3(purple)	Motor
P4(blue)	Power cord
P5(metal)	Heating pipe
P6(metal)	Heating pipe

3 Malfunctions Codes And Explanations

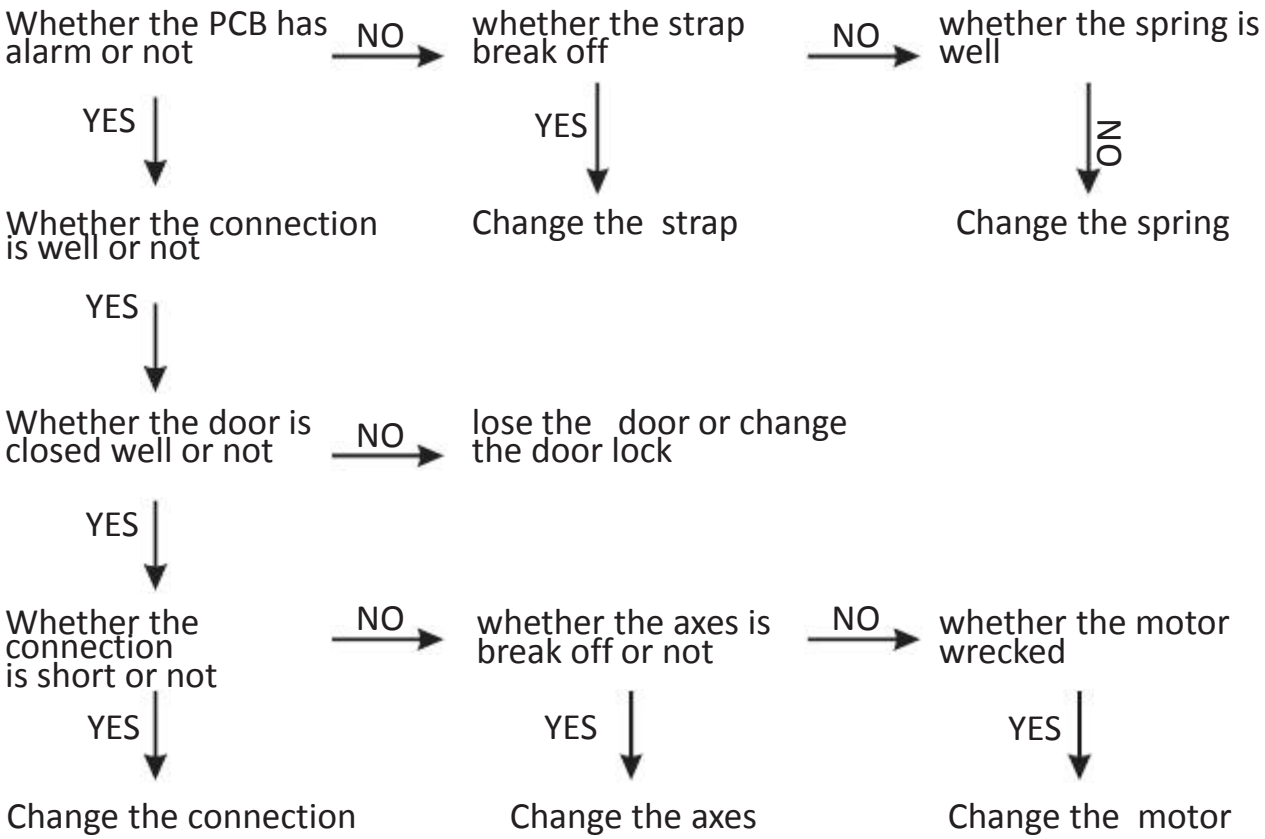
Error code	description	Criteria	Action after fault debounced	Failure indication
E1	Over-temperature	NTC or PCB fault	Stop the program and go to fault state	Led less flashing
E3	Temperature Sensor error	Temperature Sensor is open or PCB fault	Stop the program and go to fault state	Led less and standard flashing
E4	Temperature Sensor error	Temperature Sensor is short or PCB fault	Stop the program and go to fault state	Led extra flashing

4 Troubleshooting

4.1 The Control panel not displayed after selecting the program

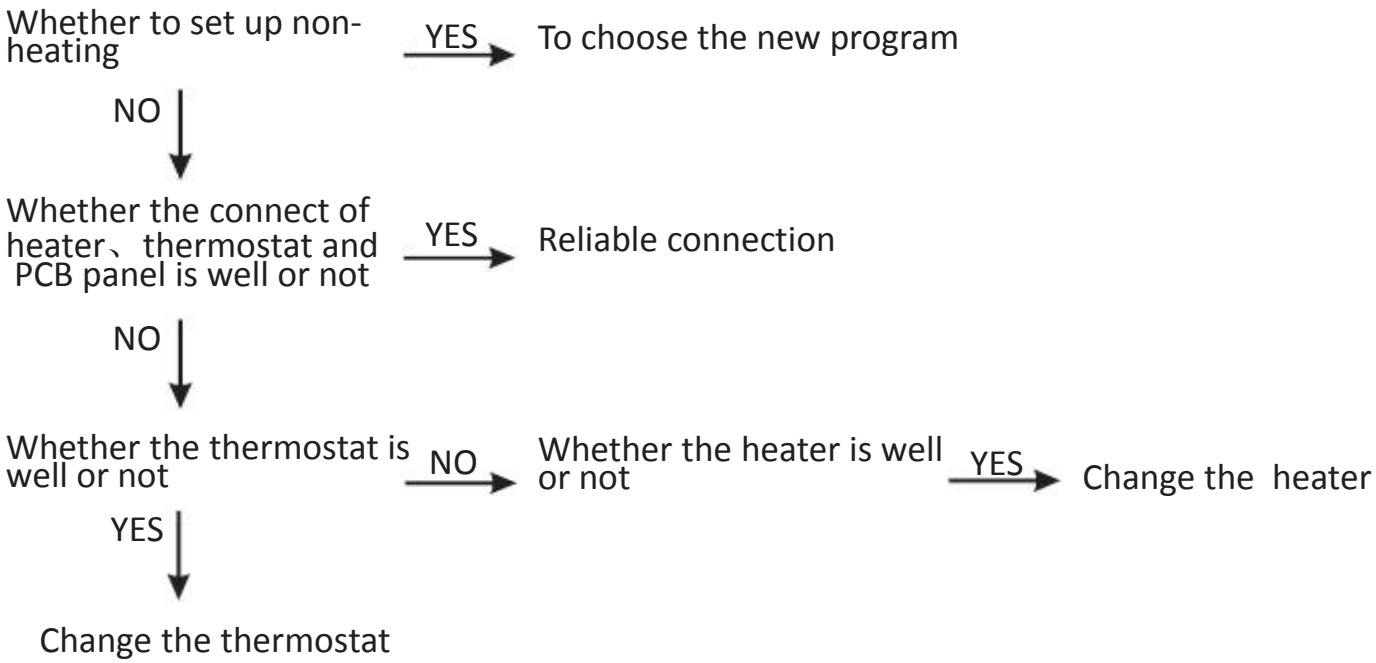


4.2 The drum not worked after selecting the program

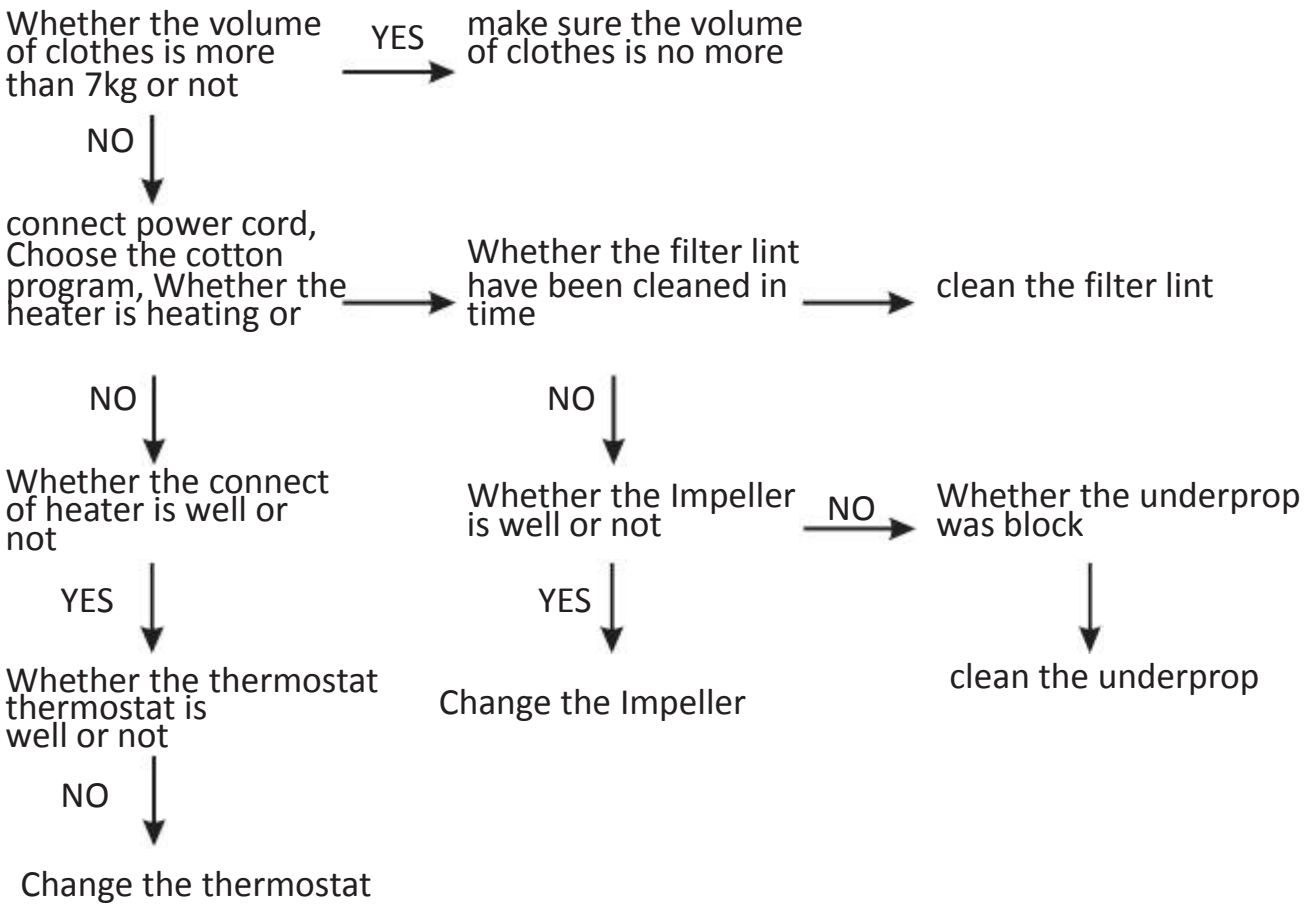


4 Troubleshooting

4.3 Maintenance non-heating malfunction

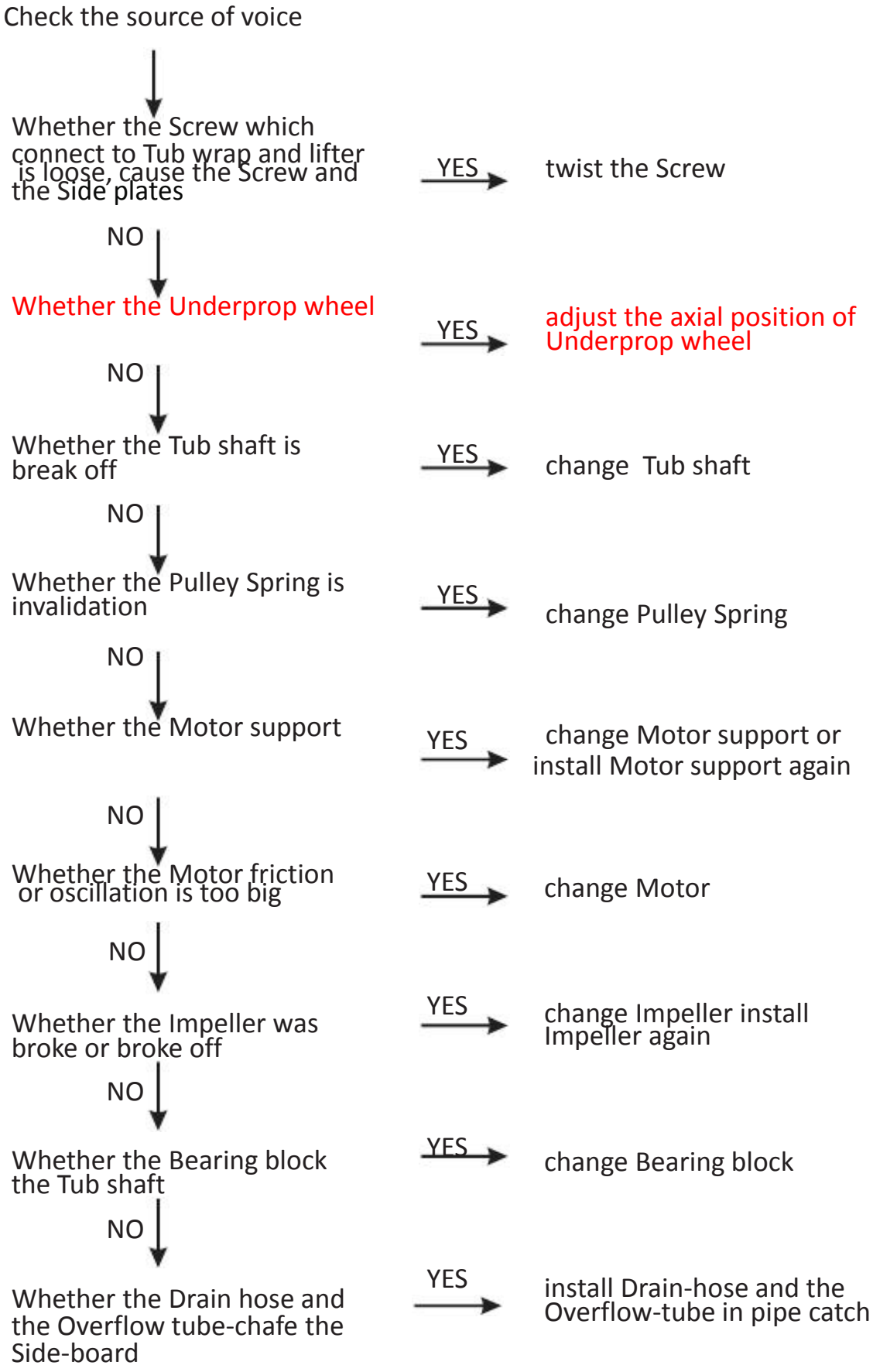


4.4 Drum worked , but the effect of drying is not good



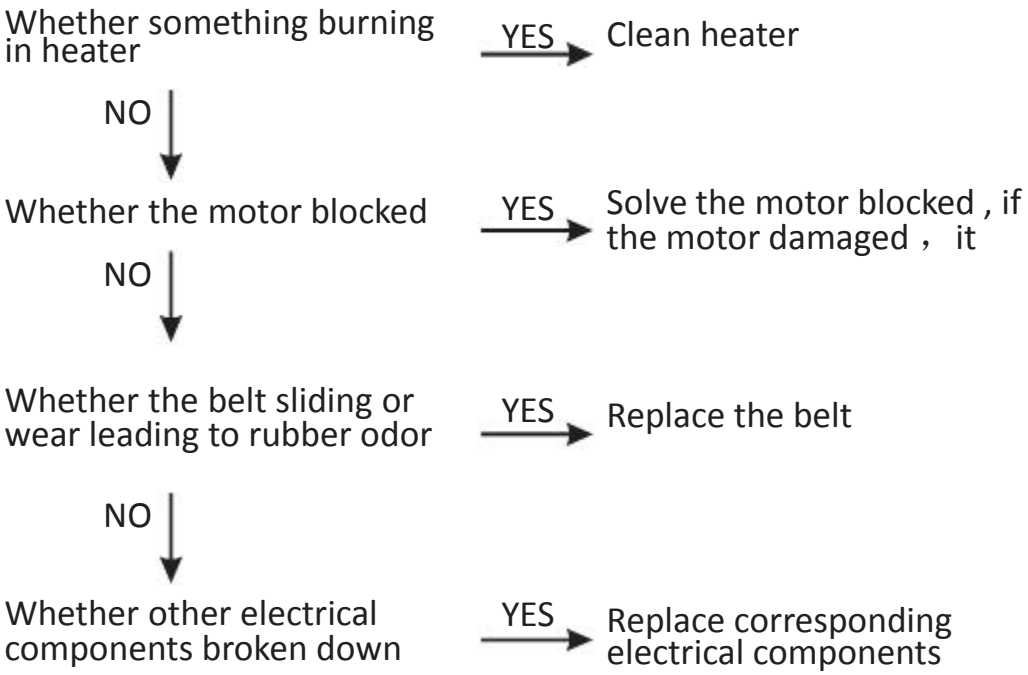
4 Troubleshooting

4.5 Noise



4 Troubleshooting

4.6 Peculiar smell appears when the dryer is working



5 Check Point Of Circuit

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

No	Parts	parameter
1	Motor Assembly	Measured with a multimeter primary and secondary windings of the motor. Main winding (white-blue) 30.0 × (1 ± 10%) Ω (20 ℃) Secondary winding (white - red) 30.0 × (1 ± 10%) Ω (20 ℃)
2	Capacitor	Test capacitance value should be 9±5%uF
3	Thermostat	With a multimeter to test the connection at both ends are each turned on. Conducting OK, the replacement is not turned on.
4	Temperature level Sensor	Measured across the resistor with a multimeter, the resistance line with RT table. According to the prevailing ambient temperature determination, error ± 3 ℃. 5℃: 25KΩ 10℃: 20KΩ 15℃: 15.5KΩ 20℃: 1 2.5KΩ 25℃: 10KΩ 30℃: 8KΩ 35℃: 6.5KΩ
5	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
6	Heater	Test resistance value should be 29±10%Ω

5 Service Tools

Number	Tools	Suitable kit
1	Sleeve (13#) and spanner	Drum tub assembly
		Capacitance
2	Sleeve(14#) and pliers	Impeller
3	Other tools (screwdriver,pliers and so on)	Common service tools