IFS Ltd t/a Intelligent Hand Dryers UK
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Mediflow hand dryer

Safety regulations

All installation, maintenance and repair tasks must be carried out by qualified technicians.

Mediclinics remembers the importance of:

1. Becoming familiar with the equipment and carefully reading the user manual prior to operating.

2. Disconnecting power prior to beginning any repair or maintenance action.

3. Exercising care in accordance with the procedures included herein.

General maintenance

Preventive Maintenance - Cleaning

Inspect the units annually or quarterly, depending on the dryer's operating cycles.

Clean the active parts of the unit, such as: the motor, the heating element, the fan and the electronic circuit board with a soft brush.

Maintain the air inlet and outlet free of dust and other obstructions; use a soft flat ended brush.

Removal of the casing

Consult the safety regulations prior to carrying out any work on the unit.

Release the screws that attach the casing (2 units) using the supplied tamper-proof screwdriver.

The casing is fixed to the base by means of inner bolts. Extract the lower part of the casing, as shown in the image, and lift it slightly to release the anchors.

To avoid scratching the casing, place it on a flat surface with the visible part facing upward.

Motor

Characteristics

- Type: Universal brush motor
- Power: 250 W
- Speed of rotation: 5,500 rpm
- Class F
- Incorporates a safety thermal limiter

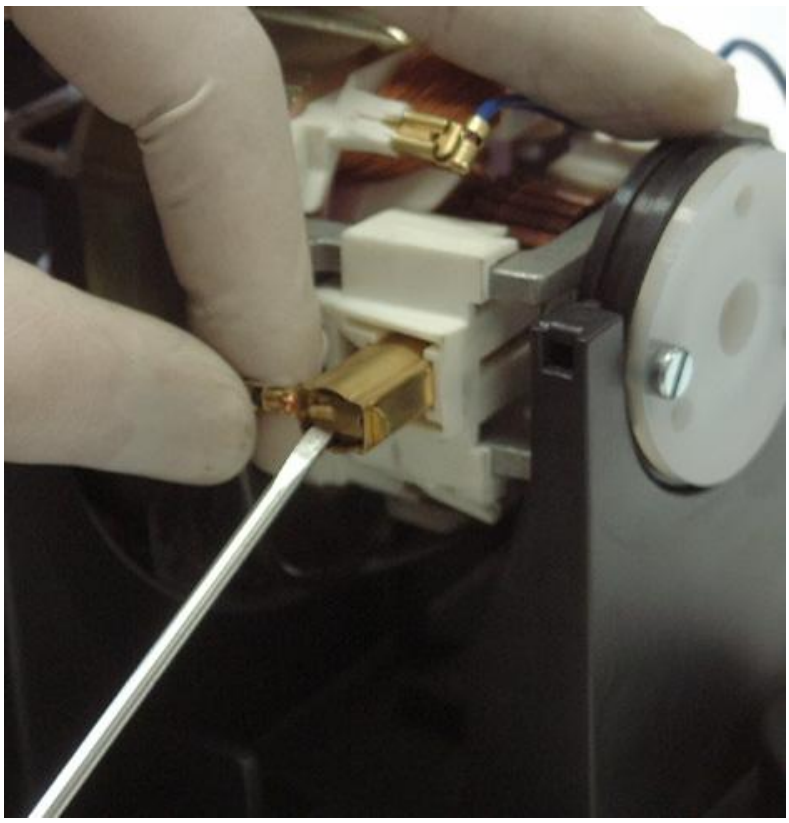
Maintenance

The corrective maintenance of the motor consists of replacing the brushes.

The brushes have a theoretical useful life of 3,000 hours and must be replaced when their length is shorter than 5 mm.

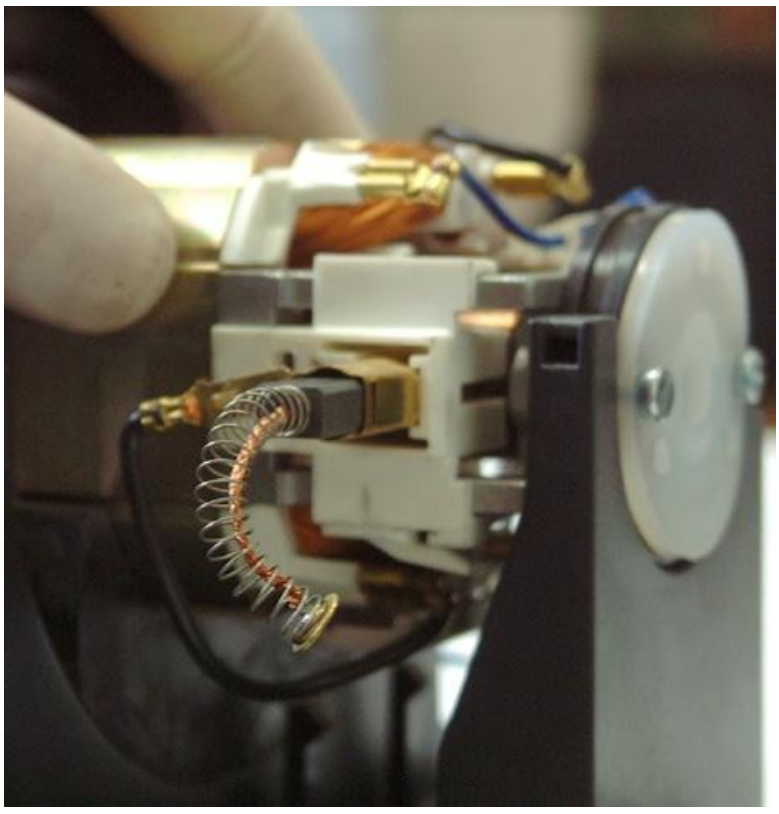
Replacement of the brushes

Press the clip that holds the brush.



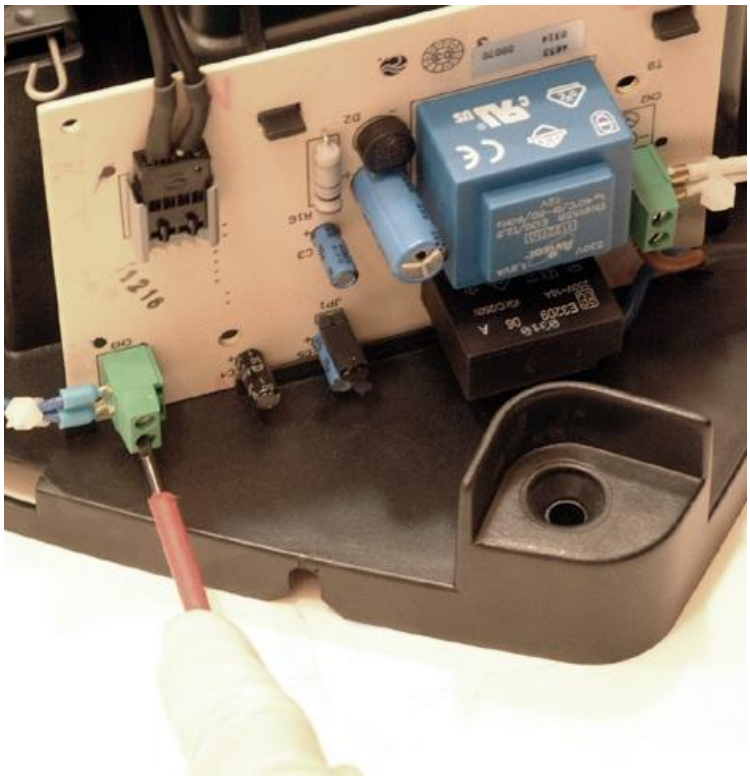
Move the clip to one side to release the brush.

Remove the brush from its location and replace it. Carry out the same procedure for the second motor brush.
Assemble by following the previous steps in reverse order.

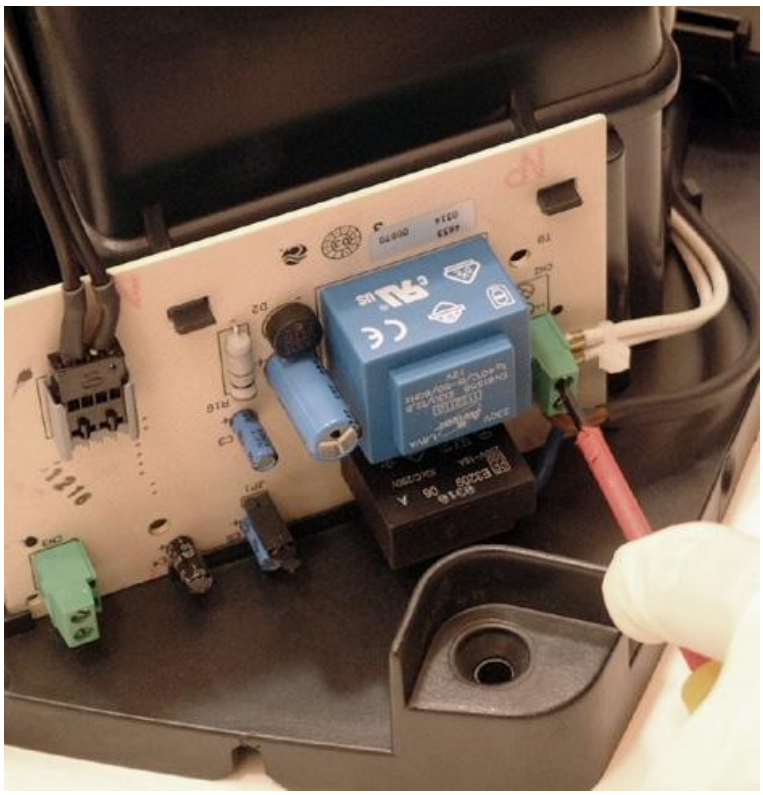


Replacement of the motor

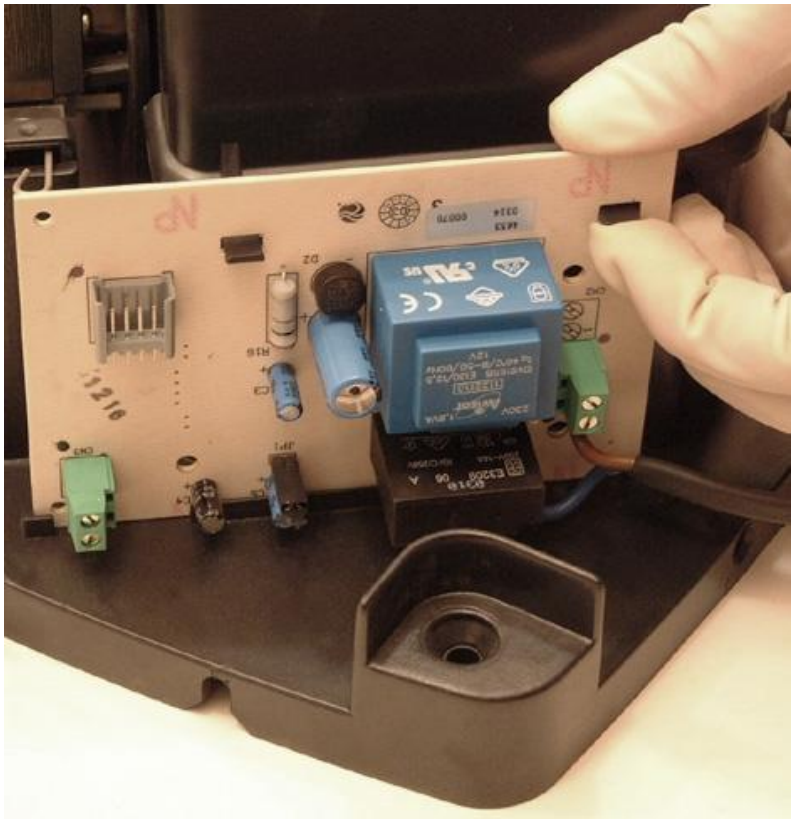
Disconnect the two cables of the motor that go to the two-way terminal block of the electronic circuit board.



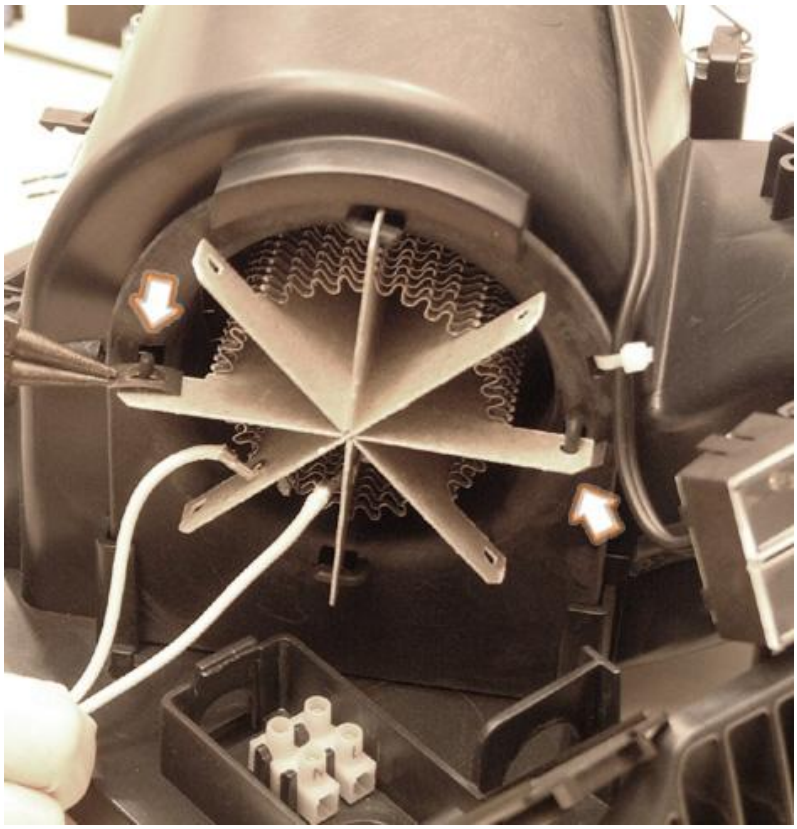
For greater safety, we recommend you disconnect the three cables of the heating element that go to the two-way terminal block of the electronic circuit board.



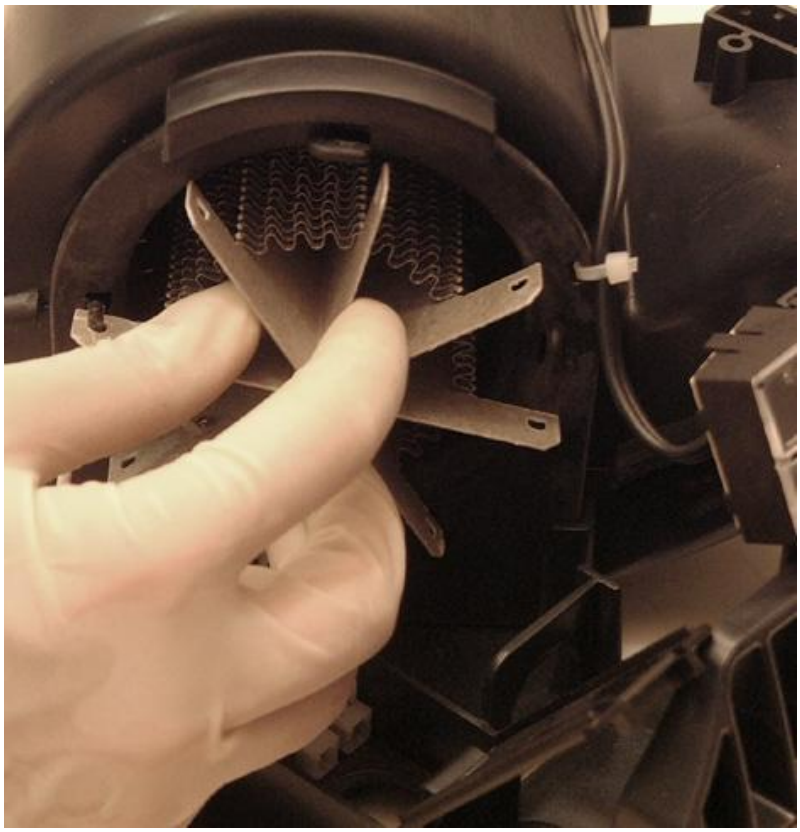
Carefully remove the electronic circuit board from the guide located at the base by bending the clips that are located in the volute.



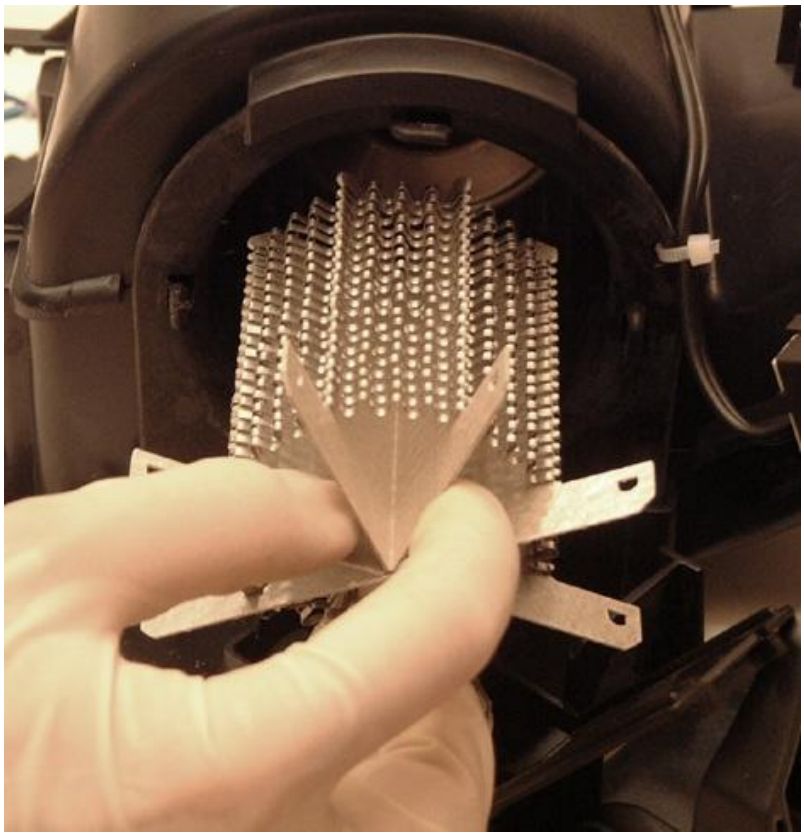
Use pliers to carefully extract the two circlips that secure the heating element.



Rotate the heating element a quarter turn clockwise, until it is released from its anchors.



Carefully remove the heating element from its position.

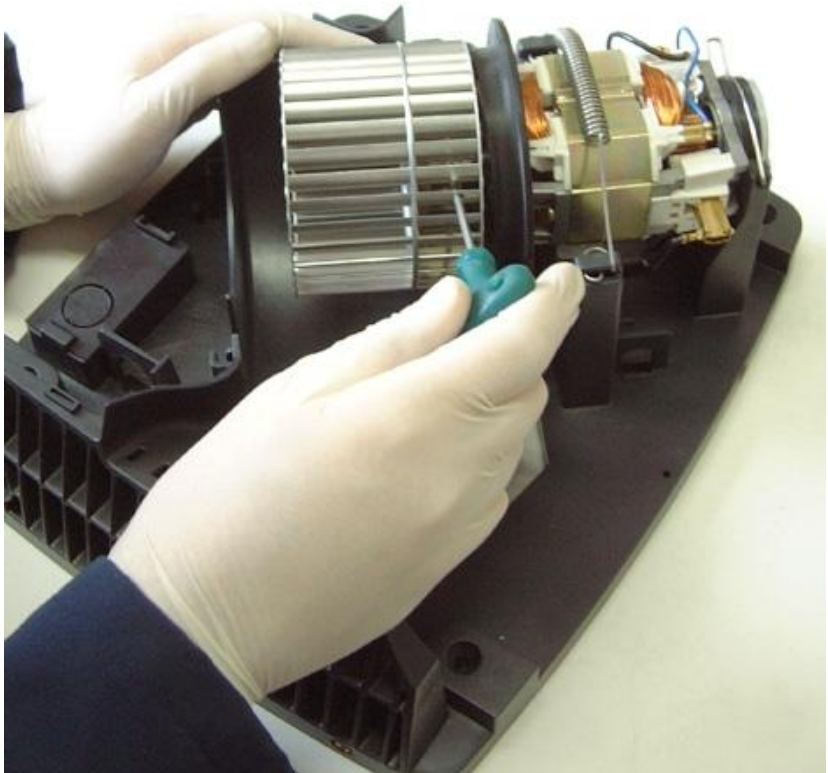


Release the screw attaching the volute to the base.

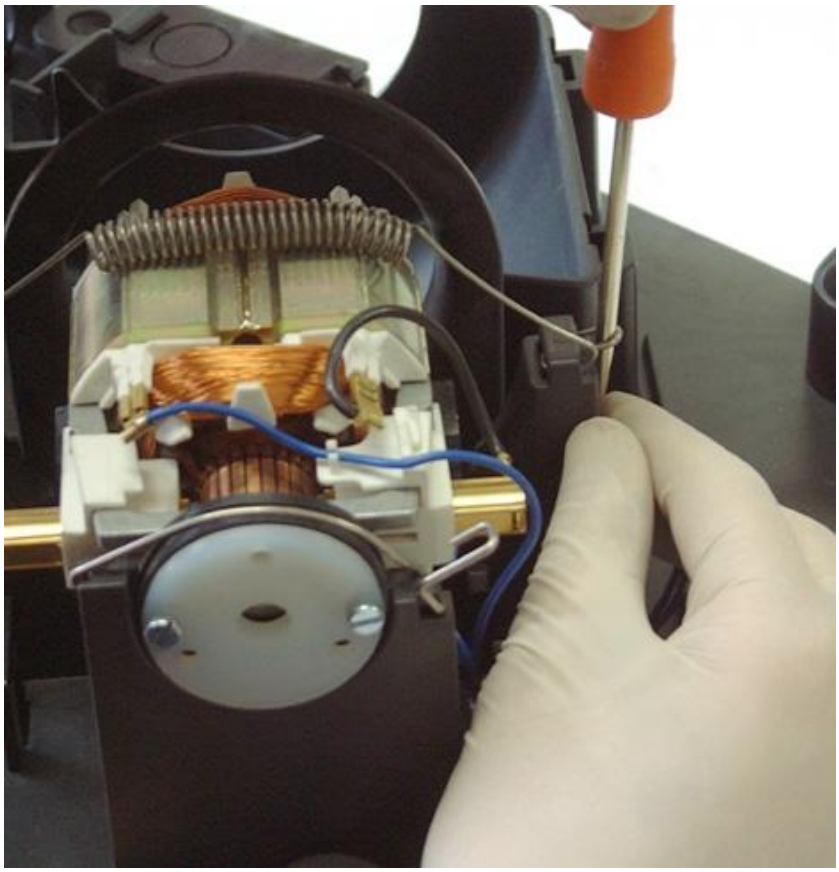
Carefully open the volute by bending the two clips that secure it to the base.

Remove the heating element ring located to the left of the fan.

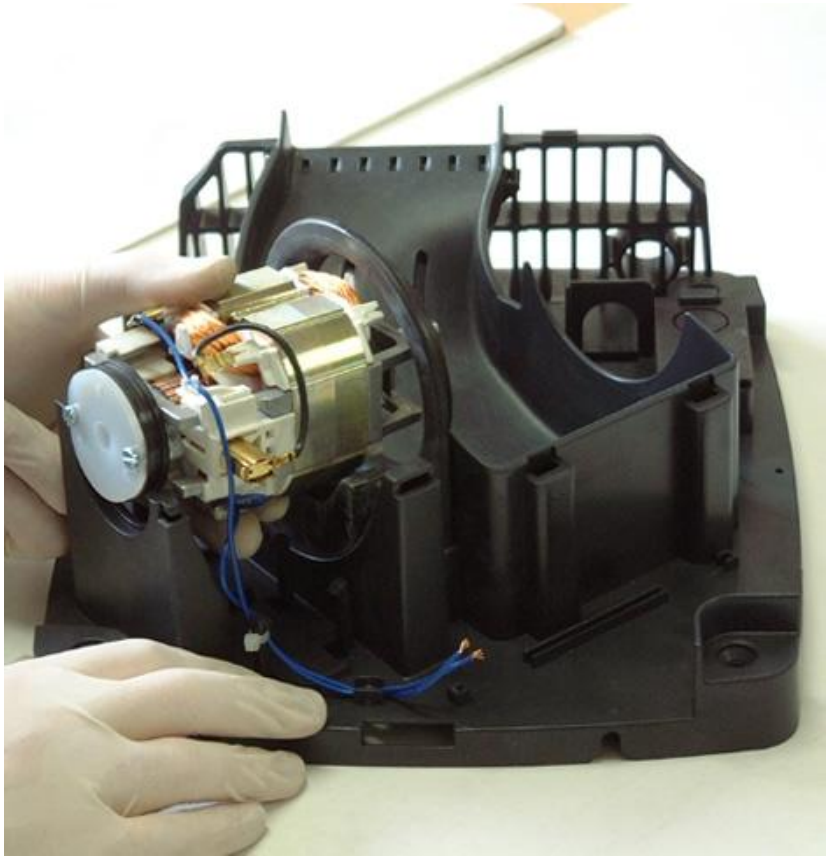
Loosen the set screw that secures the fan to the drive shaft, inserting an Allen key through the hole in one of the fan blades. Remove the fan.



Release the two lateral springs that fasten the motor.



Carefully remove the motor from its position and replace it. Fit it by following the previous steps in reverse order.



Heating element

Characteristics

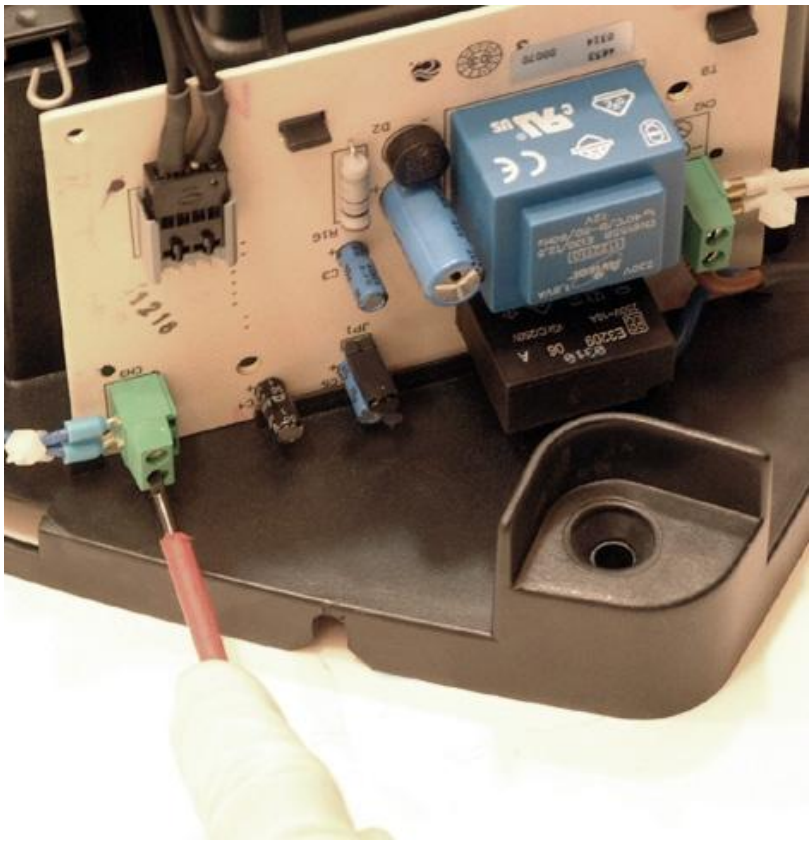
- Band type wound wire heating element in Cr, Al and Fe.
- On MICA body.
- Power: 2,500 W.
- Incorporates a thermal limiter.
- Automatic disconnection 0.5 seconds before the motor stops.

Maintenance

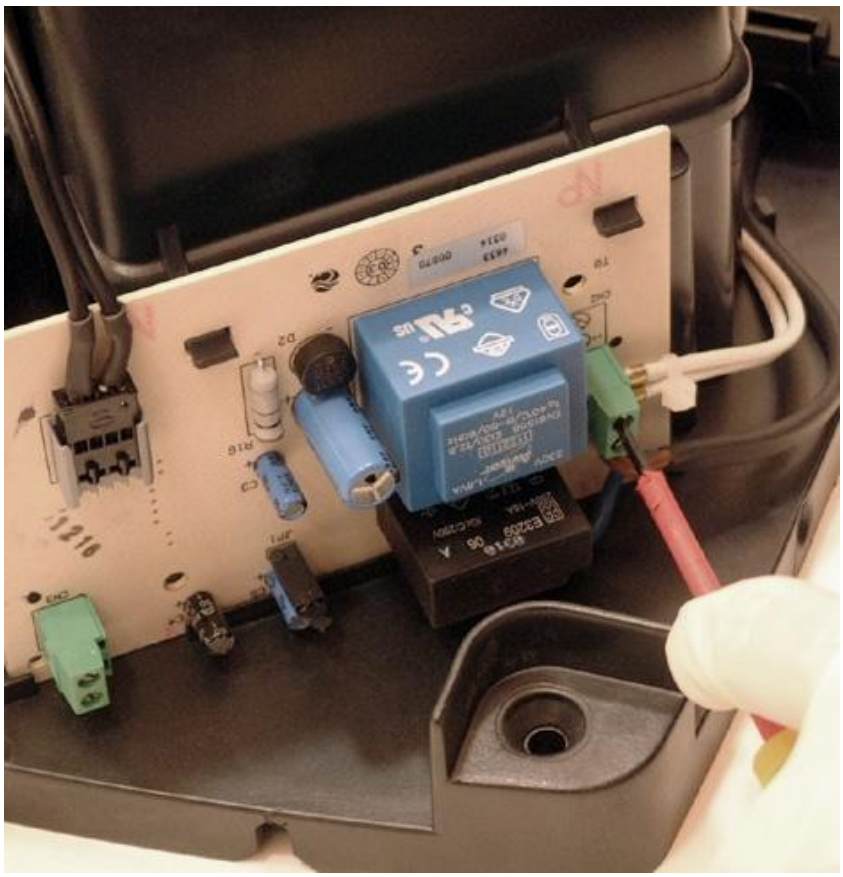
As preventive maintenance, we recommend using a soft brush to remove dust and dirt on an annual or bi-annual basis, depending on the dryer's operating cycles.

Replacement of the heating element

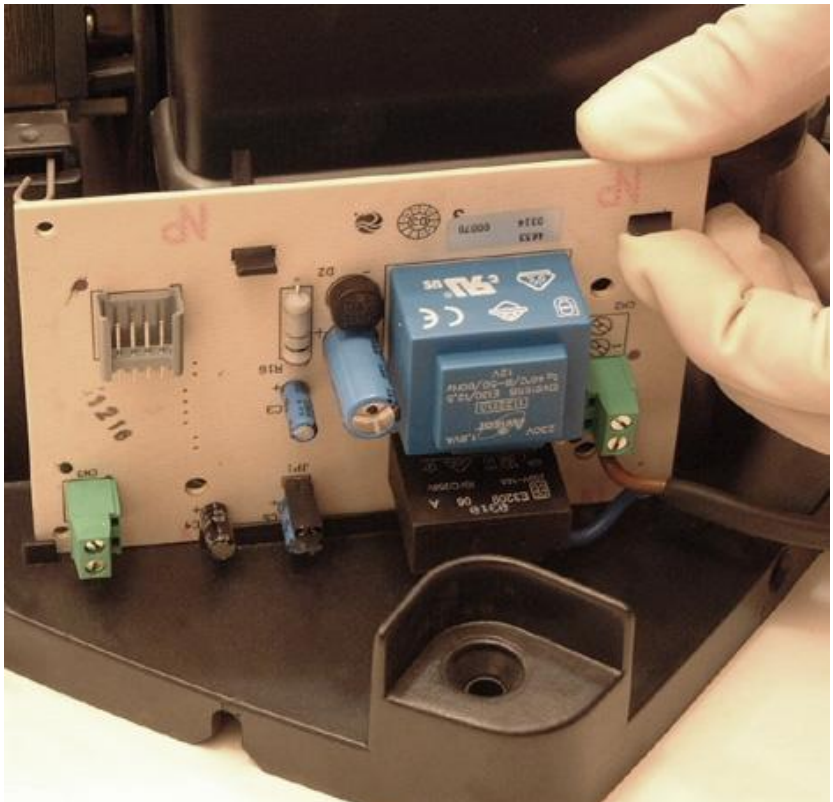
Disconnect the two motor cables that go to the two-way terminal block of the electronic circuit board.



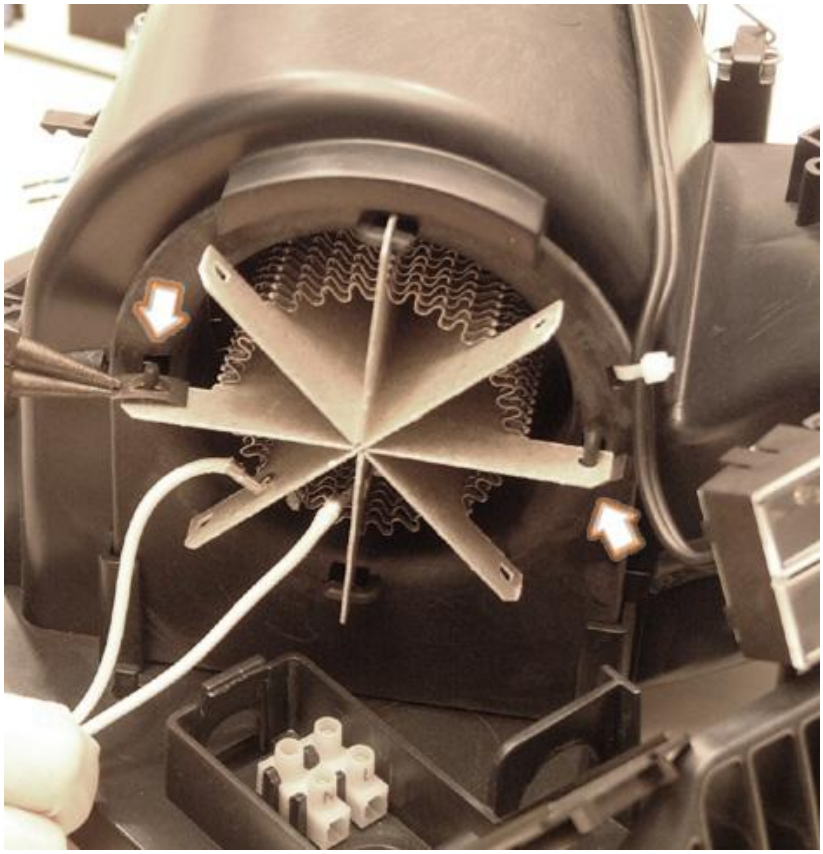
Disconnect the two heating element cables that go to the two-way terminal block of the electronic circuit board.



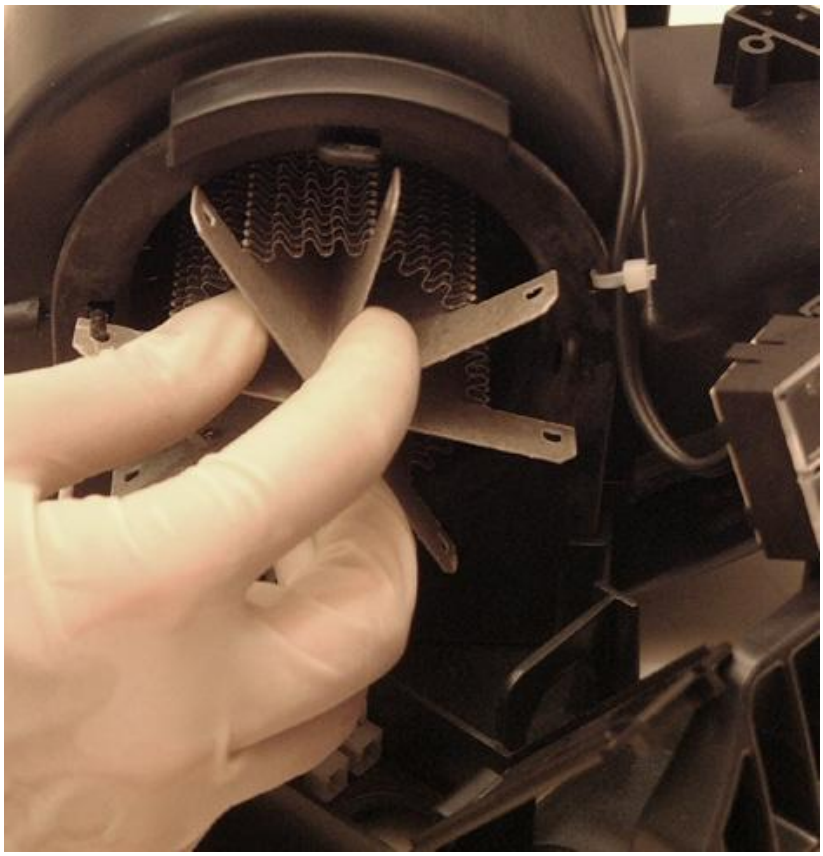
Carefully remove the electronic circuit board from the guide in the base by bending the clips located in the volute.



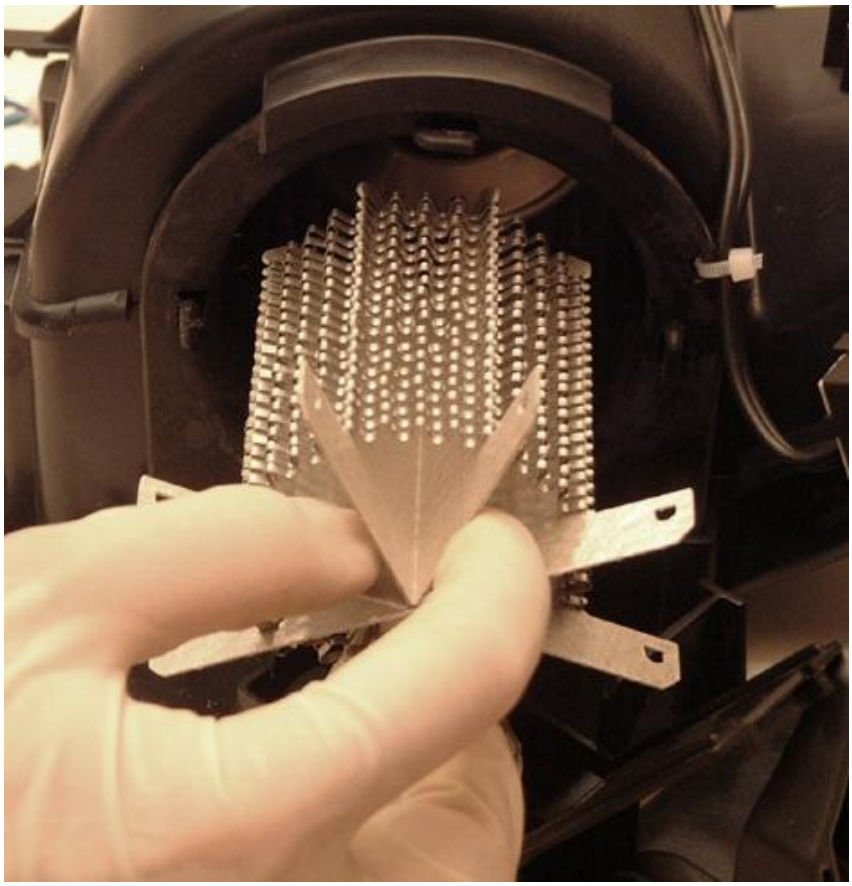
Use pliers to carefully extract the two circlips that secure the heating element.



Rotate the heating element a quarter turn clockwise, until it is released from its anchors.



Remove the heating element from its housing in the volute and replace it. Fit it by following the previous steps in reverse order.



Electronic Circuit Board

Characteristics

- Electronic sensor, with infrared beam.

- Detection distance adjustable by potentiometer (5-25 cm).

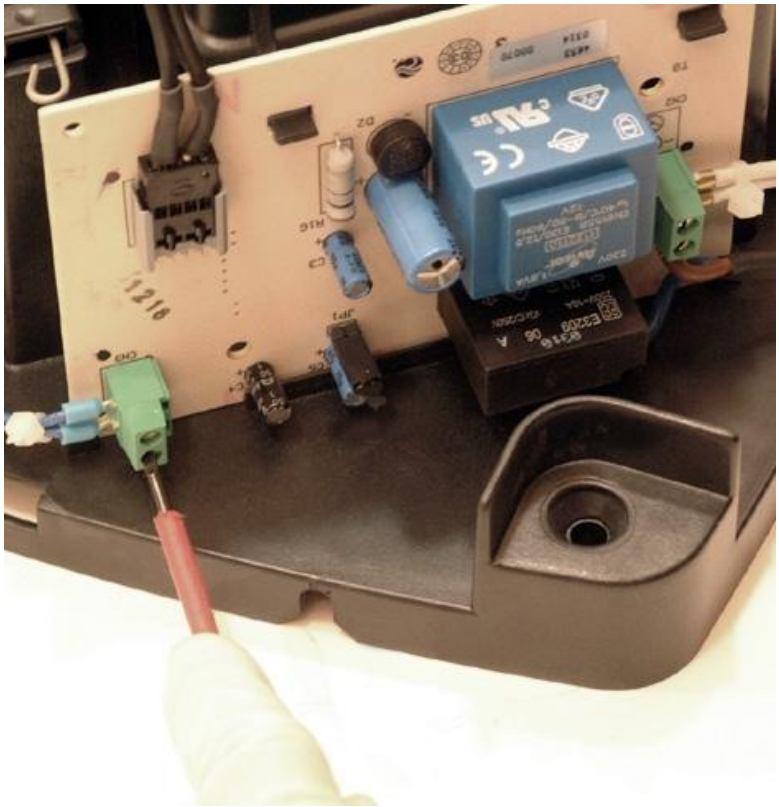
Maintenance

As preventive maintenance, we recommend using a soft brush to remove dust and dirt on an annual or bi-annual basis, depending on the dryer’s operating cycles.

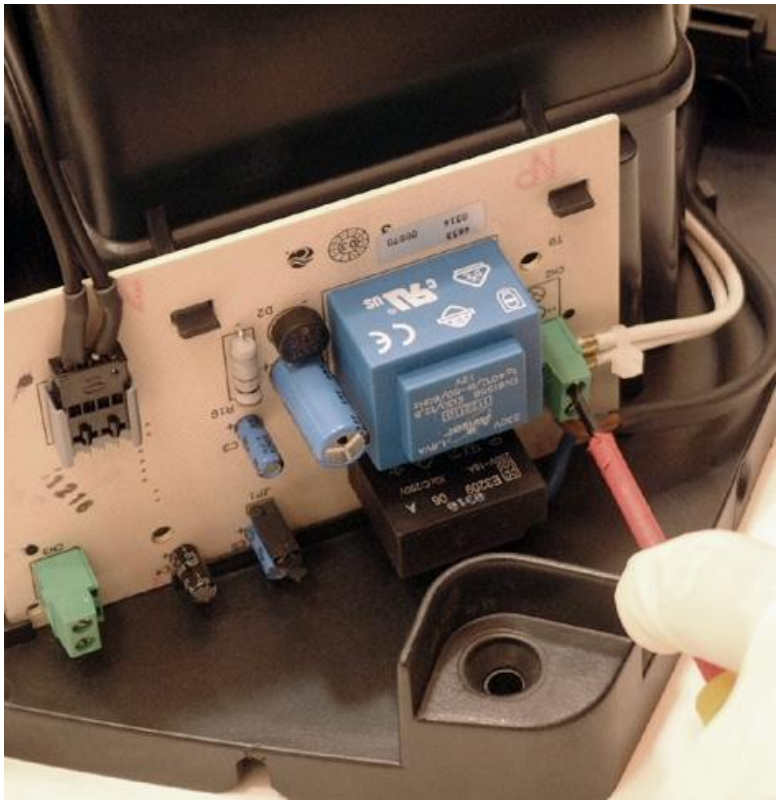
It is also recommended to clean the LEDs regularly using a cloth dampened with alcohol to ensure the signal is emitted and received properly.

Replacement of the electronic circuit board

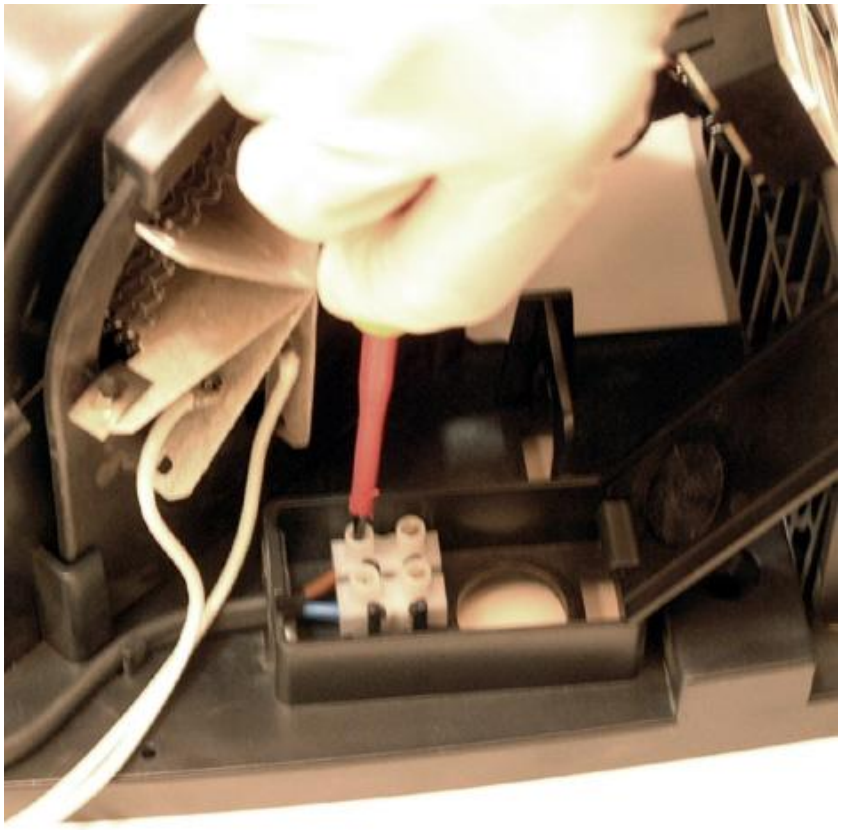
Disconnect the two motor cables that go to the two-way terminal block of the electronic circuit board.



Disconnect the two cables of the heating element that go to the two-way terminal block of the electronic circuit board.



Disconnect the electronic circuit board from the terminal block that is located in the junction box of the base.



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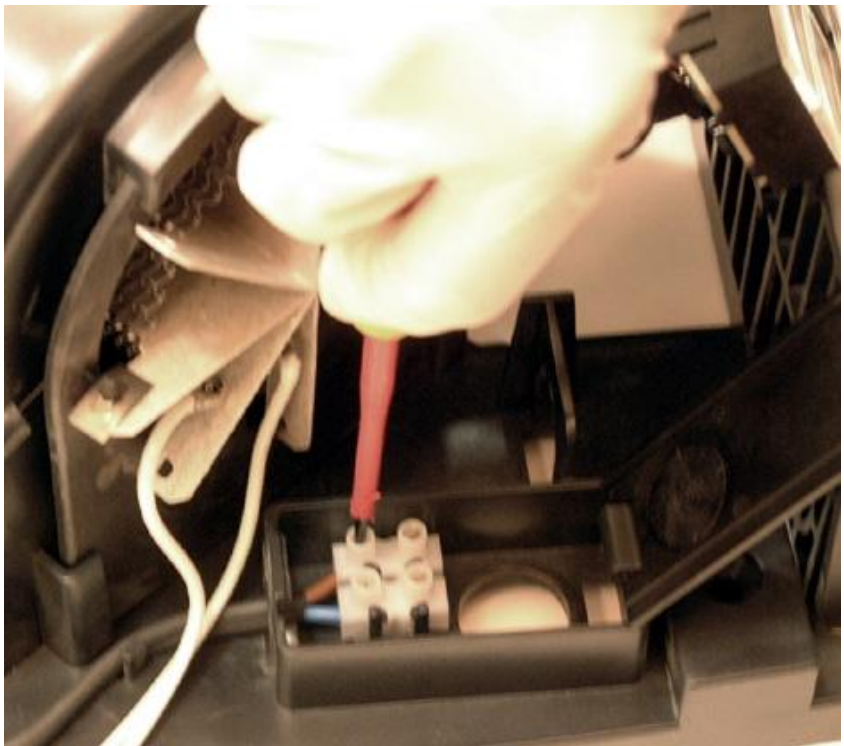
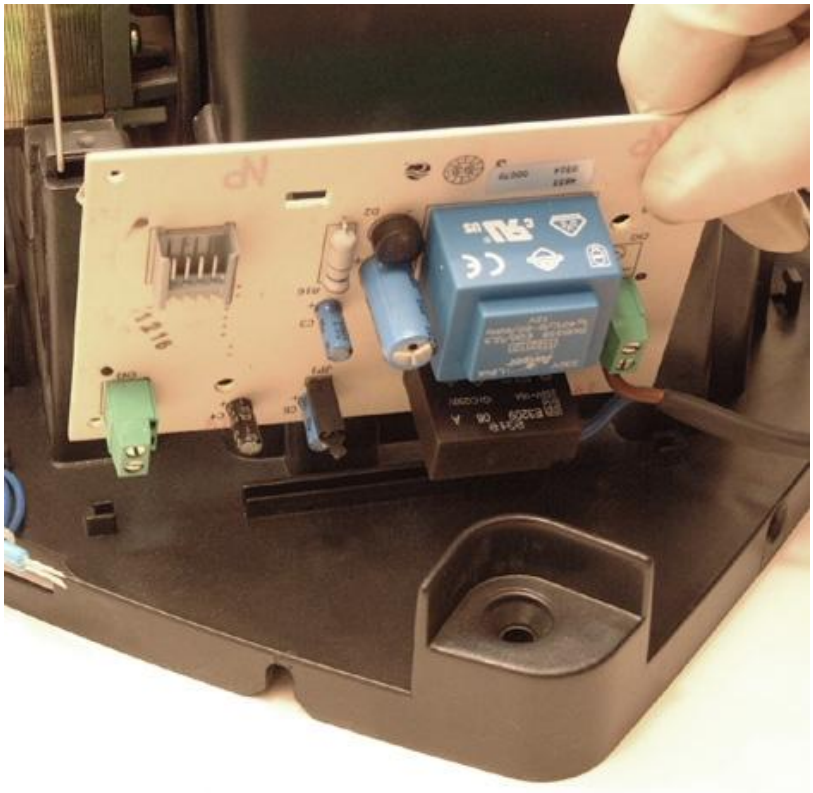


Free the electronic circuit board by bending the clips located on the volute.

Remove the circuit board carefully so as not to damage its components. Fit it by following the previous steps in reverse order.
Insert the circuit board into the guide at an angle of 45º for it then to be positioned perpendicular to the base.



Position of the jumper at low sensitivity: detection distance between 15 and 20 cm.

Notes: The dryer is supplied with the jumper set in the low sensitivity position.

The lighting conditions of the installation site can alter the detection distances.