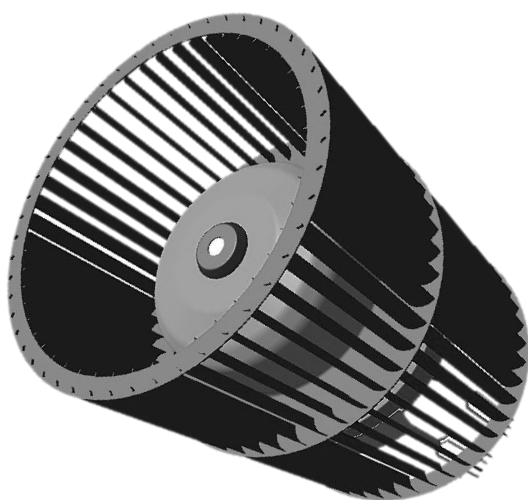
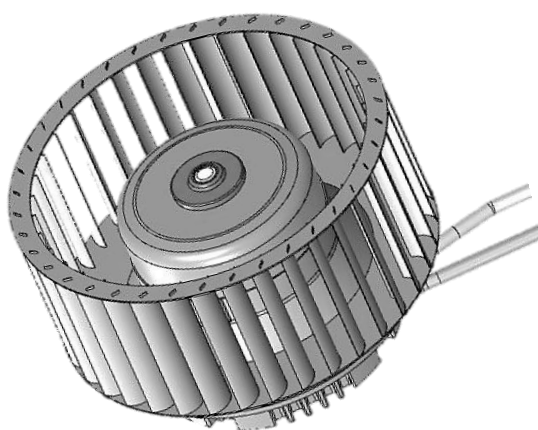


Instruction for disassembly

EC72 external rotor motors



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CEBI Micromotors Switzerland s.a.

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1 General notes and security recomendations

This instruction is applied to all Cebi EC external rotor motors. These motors are identified by the designation “ME” followed by a number (for example ME72). The impeller type (axial or radial with metal or plastic fan) is not relevant for the purpose of disassembly. All the indications about motor model can be found on the label.

Attention! – Please observe all indications contained in this instruction; ensure compliance with all safety indications. Use appropriate tools and equipment for your own safety. The high magnetic forces of attraction between stator and rotor present a risk of injury.









To safely work on the motor, line voltage has to be switched off and secured against switching back on. All electrical cables have to be disconnected. A minimum time of 3 minutes has to be respected before start disassembling.



2 Tools

In order to get a correct disassembly of the motor, the following tools should be used:

					
Screwdriver 00 size	Philips Screwdriver	Nipper	Torx T20x100 Screwdriver	Nipper	Teethy wrench
<u>T1</u>	<u>T2</u>	<u>T3</u>	<u>T4</u>	<u>T5</u>	<u>T6</u>

3 Procedure for disassembly

3.1 Preparation for scroll-equipped motors

Scroll-equipped motors need an initial step before actually open the motor. The motor has to be carried out from the scroll itself in order to be disassembled. If no scroll is present, please skip this part and start with 3.2



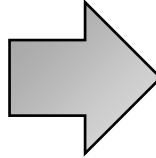
Please be very careful. The sheet-metal design of the scroll can lead to the creation of very sharp edges, which can be harmful. It's good practice to wear appropriate gloves.

3.1.1 Double-inlet equipped motors

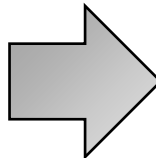
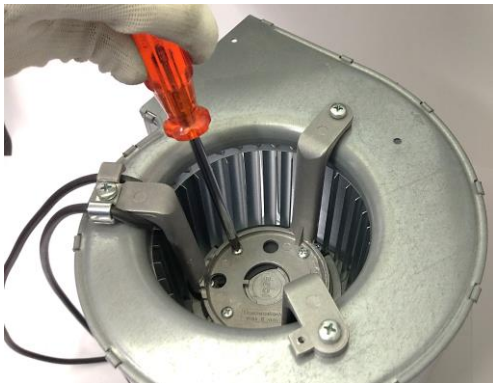
Place the scroll in the position where you can see all the screws, as shown in the next picture.



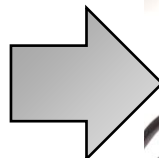
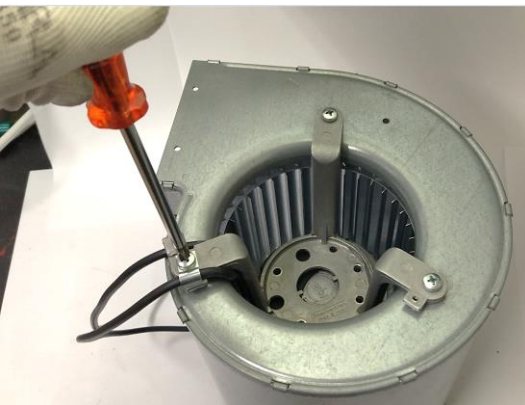
Using the nipper [T5], remove the plastic bands holding the cables.



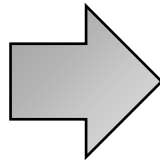
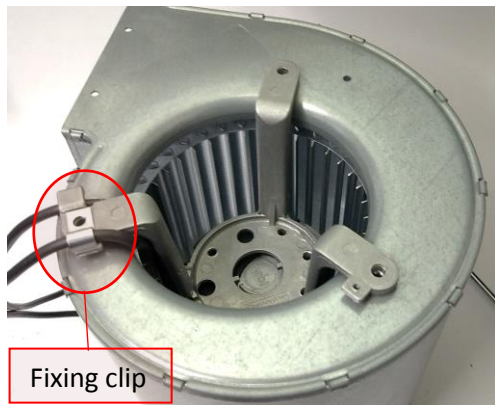
Using the Philips screwdriver [T2], remove the four screws linking the motor with the aluminium support. Please note that from this point the motor is free to move.



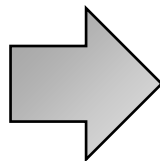
Using the Philips screwdriver [T2], remove the three screws linking the aluminium support with the scroll.



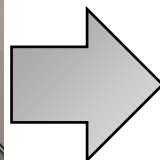
Remove the aluminium support and the cable fixing metal clip.



Using the teathy wrench [T6], carefully block one of the metal strips and begin to bend it back to straight shape.



Repeat the process for every metal strips.



Carefully and slowly extract the top plate from its position. *For this operation it is recommended to use gloves.*



Extract the motor from the scroll.

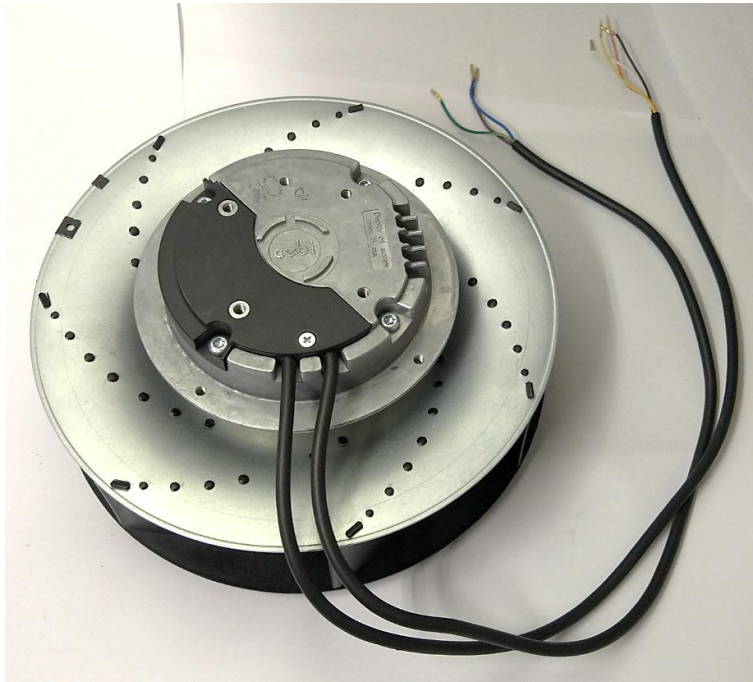


► From this point, please refer to 3.2.

3.2 Opening the motor

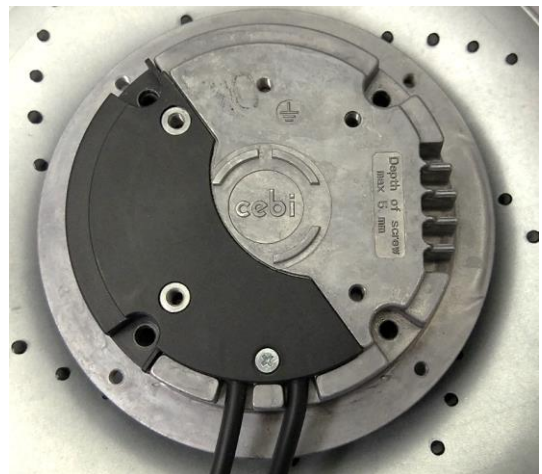
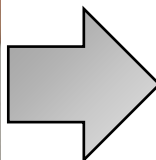
3.2.1 Preparing the motor

Position the motor to be disassembled with the stator side visible and screws accessible , as shown in the following picture.



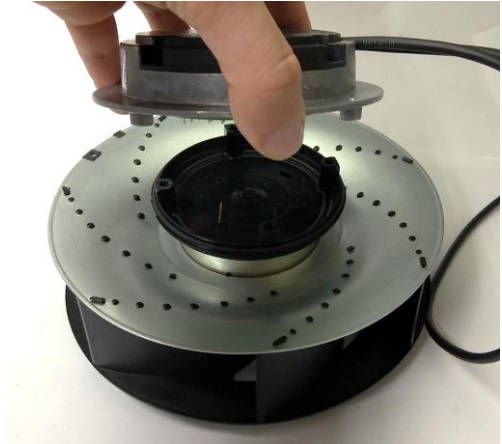
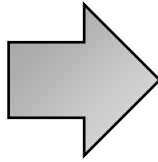
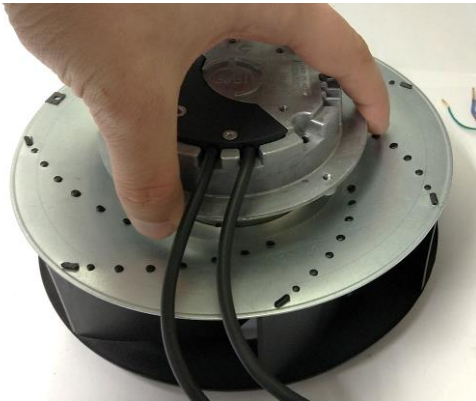
3.2.2 Disassemble of the top carrier

Using the T20x100 screwdriver [T4], remove and dispose the four Torx screws from the top of the motor.

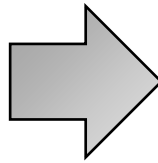


Pull the top part of the motor (the carrier, along with the cable and the electronic board) and separate it from the rest.

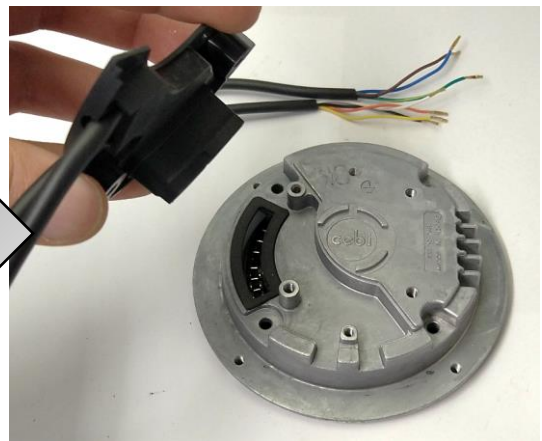
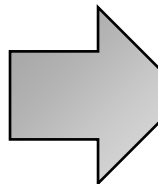
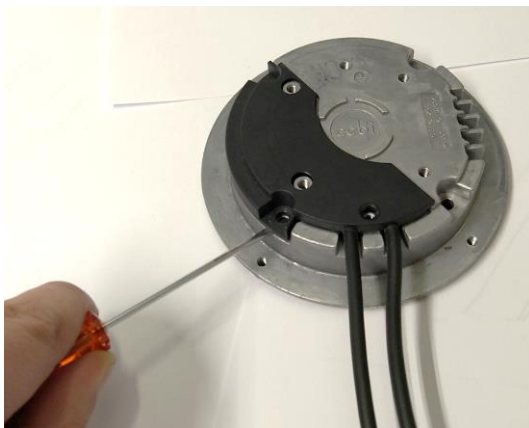
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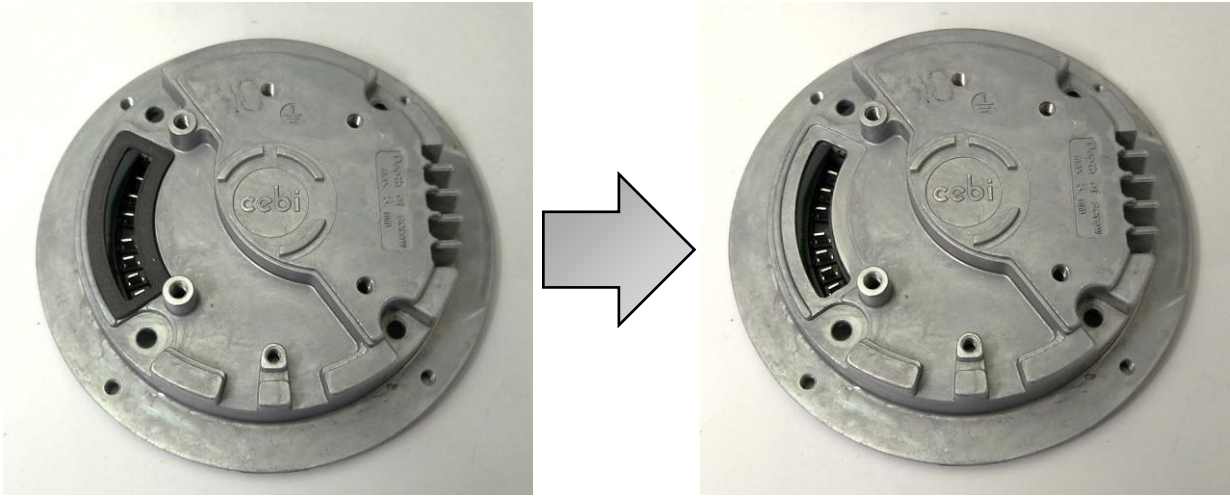
Using the Philips screwdriver [T2], remove and dispose the fixing screw from the carrier.



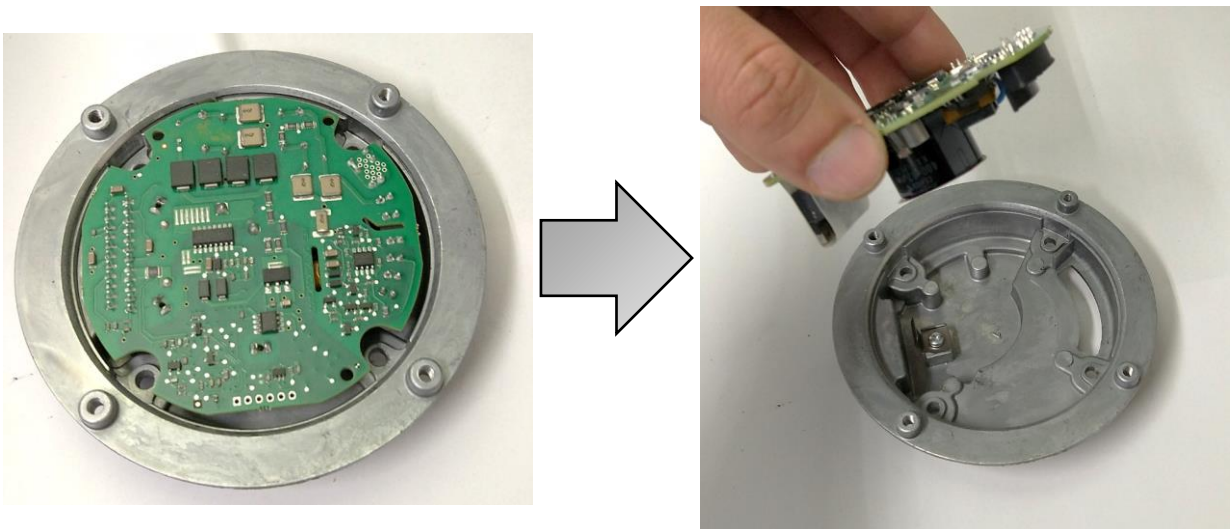
Remove slowly the cable by using of the flat-blade screwdriver [T1]. Use caution because electrical components may be damaged.



Remove and dispose the cable gasket.

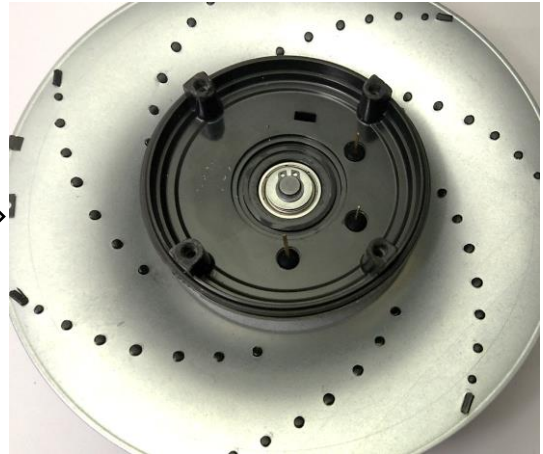
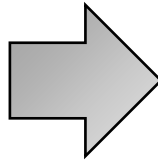
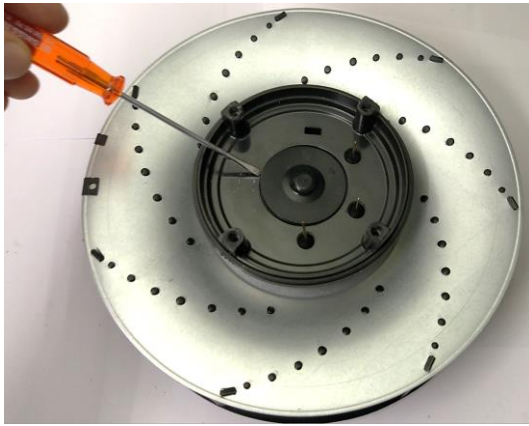


Remove the electronic board by pulling it. If needed, you can use the screwdriver for this purpose, but electrical components may be damaged.

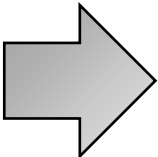
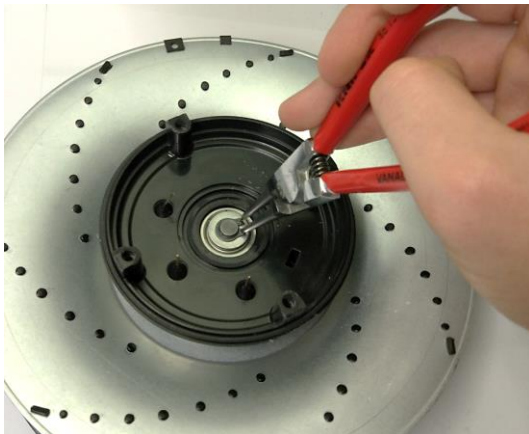


3.3 Disassemble of the motor

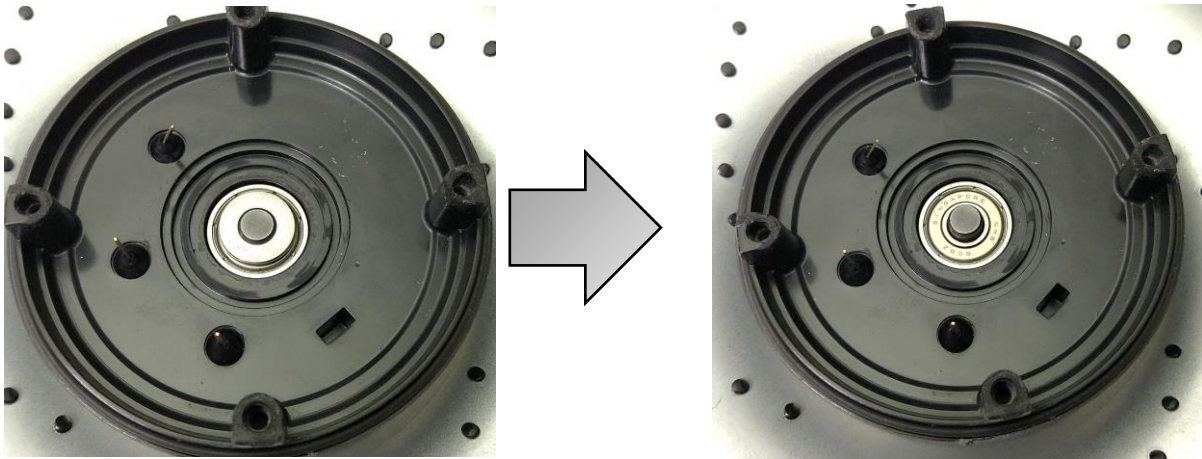
Remove the plastic cap by using of the flat-blade screwdriver [T1].



Remove and dispose the inner seeger from its position using the nipper [T3]. Do not reuse the seeger removed.

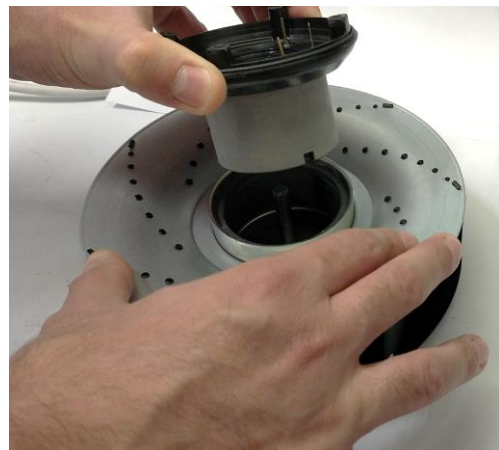
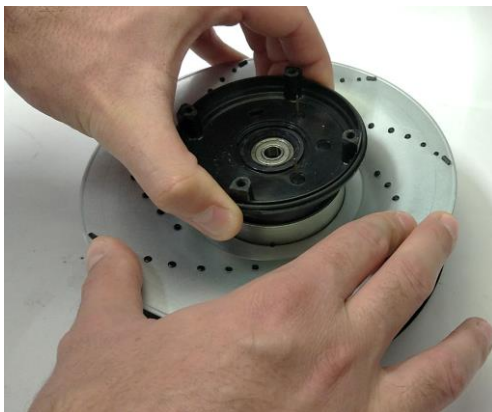


Remove and dispose the washers stator side.



Disassemble rotor and stator by pulling apart the two components.

The high magnetic forces of attraction between stator and rotor present a risk of injury.



Remove and dispose the washers rotor side.

