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1. Models described

These instructions describe how to repair the following models:

Model	Order number
FEIN Dustex 25L / Turbo I	9 20 27 223 00 0
FEIN Dustex 35L / Turbo II	9 20 28 223 00 0



2. Technical data

Technical data

The complete technical data can be found in the operating instructions for the model.

Test data

Up-to-date test data for all models can be found on the FEIN Extranet (Customer Service → Repair Guides).

Lubricants

The lubricants and container sizes available from FEIN can be found on the FEIN Extranet (Customer Service → Repair Guides).

Lists of spare parts

Lists of spare parts and exploded views are available online at www.fein.com



3. Notes and requirements

Note

These instructions are only intended for persons with suitable technical training. It is assumed that the reader has mechanical and electrical training.

Only use original FEIN spare parts!

Provisions

Please note that power tools may only be repaired, maintained and checked by a trained electrician, as improper repair can result in serious risks to the user.

The provisions set out in **DIN VDE 0701-0702** should be observed after repairs.

The relevant accident prevention regulations of the employers' liability insurance associations are to be observed when commissioning.

The German Equipment and Product Safety Act applies for correct use.

Outside Germany, the regulations applicable in the relevant country must be observed!



3. Notes and requirements



WARNING!

Damage from electrostatic charging.

Failure to comply with the safety regulations for ESD protection may cause damage to the electronics.

☞ Only perform assembly/disassembly work on electronics on a workstation with ESD protection.



4. Tools required

Standard tools

Torx T15 (length 89 mm)

Torx T20 (length: 89 mm, 152 mm)

Side-cutting pliers

Cross-tip screwdriver PH1

Special tools:

Pressure gauge 6 41 08 010 01 0



5. Lubricants and auxiliary substances required

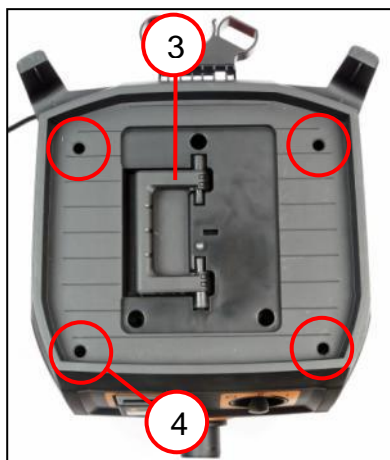
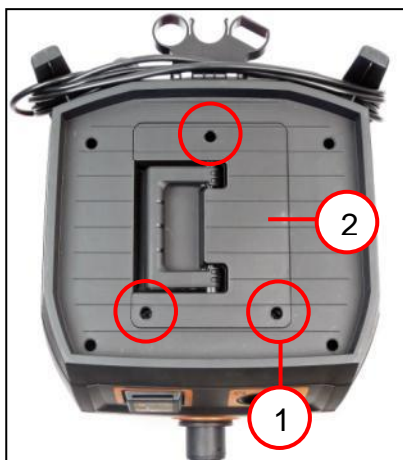
Note

No lubricants or auxiliary substances are required for assembly of the FEIN Dustex 25L / Turbo I and FEIN Dustex 35L / Turbo II tools.



6. Disassembly

Removing hood



1. Unscrew the three screws (1).
2. Remove cover (2).
3. Remove handle (3).
4. Unscrew the four screws (4) and remove hood.
5. Open clips (5) and remove holder.

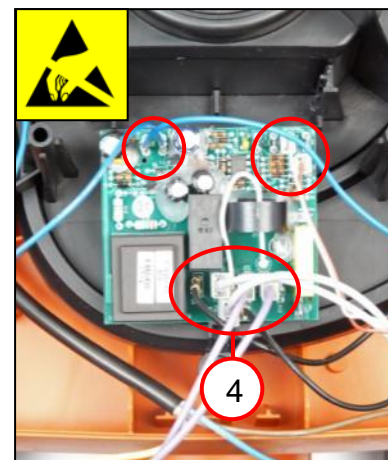
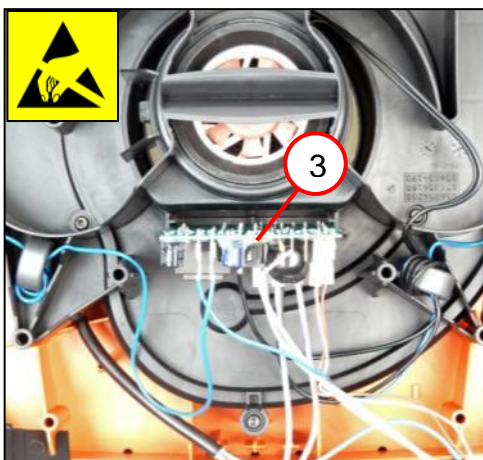
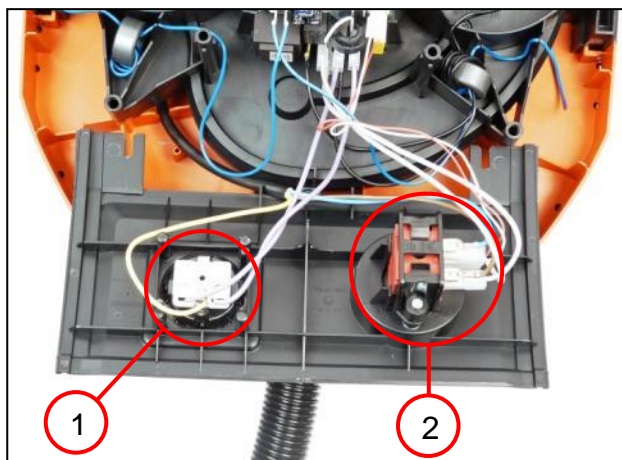
Tools:

- Torx T20
(length: 152 mm)



6. Disassembly

Disassembling base plate and electronics



1. Disconnect cables at socket (1).
2. Pull cables off switch (2).
3. Disassemble socket and switch.
4. Pull out the electronics (3).
5. Pull out connected cables (4) from electronics.

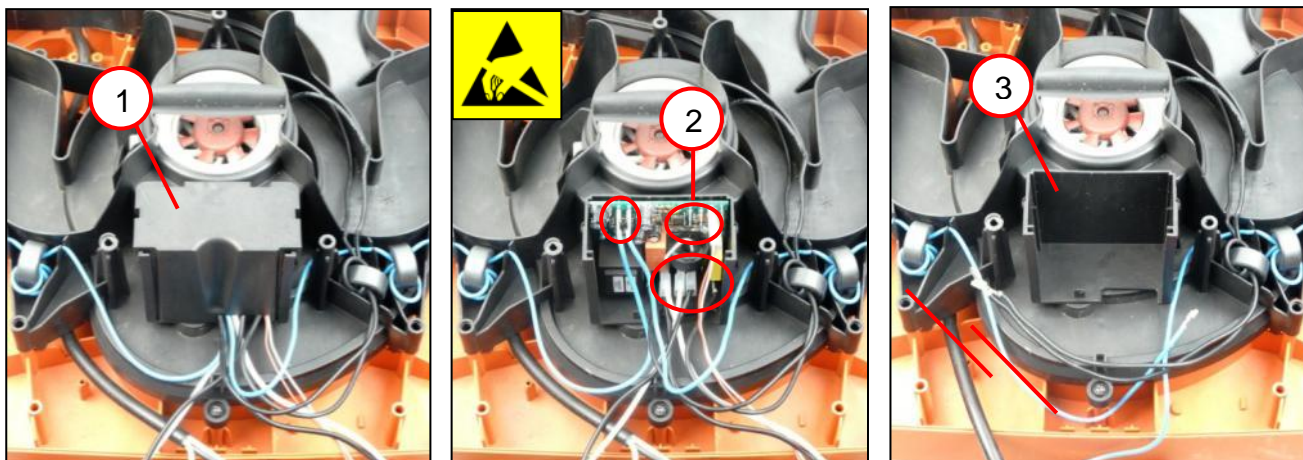
Tools:

- Torx T15
(length: 89 mm)
- Cross-tip screwdriver
PH1



6. Disassembly

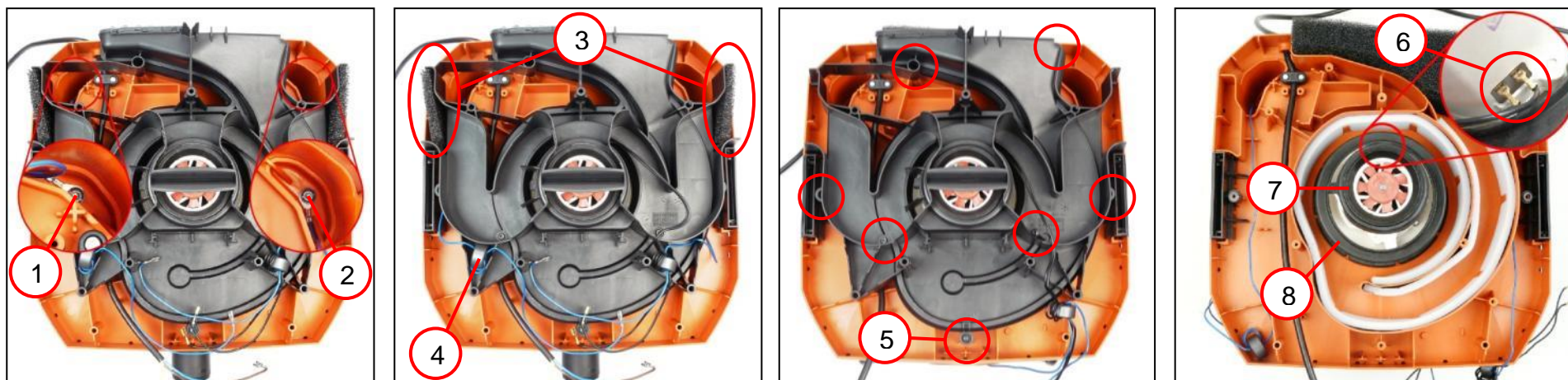
Disassembling electronics (applies to: Turbo I; Turbo II)



1. Remove cover (1).
2. Pull out connected cables (2) from electronics.
3. Take electronics out of housing.
4. Remove housing (3).

6. Disassembly

Disassembling base plate



1. Unscrew sensor (1).
2. Unscrew sensor (2).
3. Remove the two filters (3).
4. Remove ferrite sleeve (4) with cable.
5. Unscrew the seven screws (5) and remove housing.
6. Pull cable (6) off motor.
7. Remove motor (7).
8. Remove motor bearing ring (8).

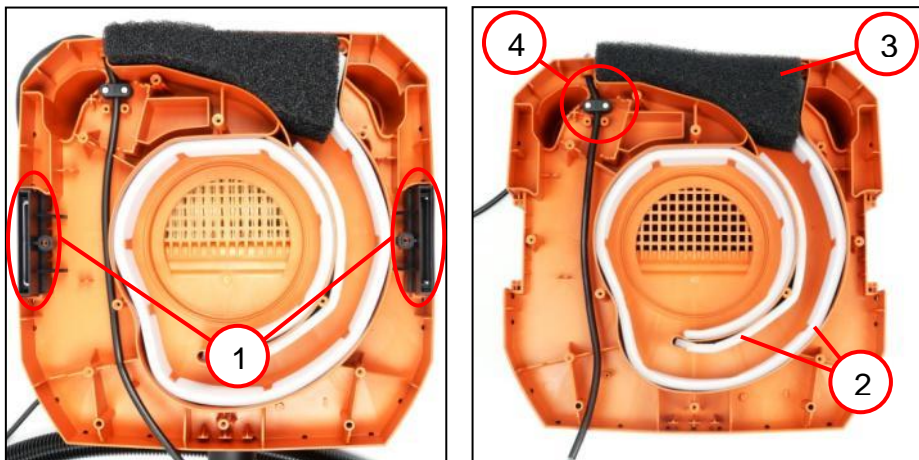
Tools:

- Torx T20
(length: 152 mm)
- Torx T20
(length: 89 mm)



6. Disassembly

Disassembling base plate



1. Remove pressure piece and lug (1) on both sides.
2. Remove two inserts (2).
3. Remove filter (3).
4. Remove cable clamping piece (4).

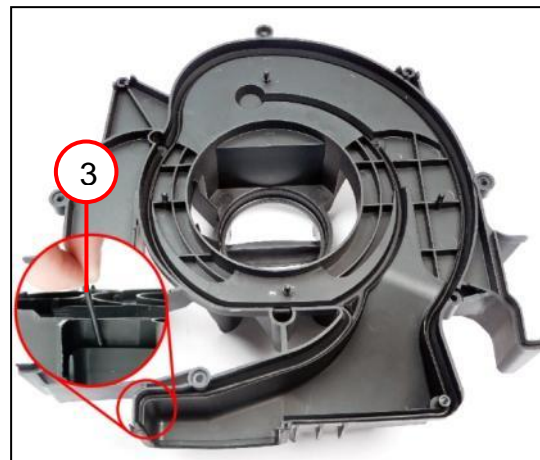
Tools:

- Torx T15
(length: 89 mm)



6. Disassembly

Disassembling base plate



1. Remove seal (1).
2. Remove four circlips (2).
3. Remove seal (3).

Tools:

- Side-cutting pliers



6. Disassembly

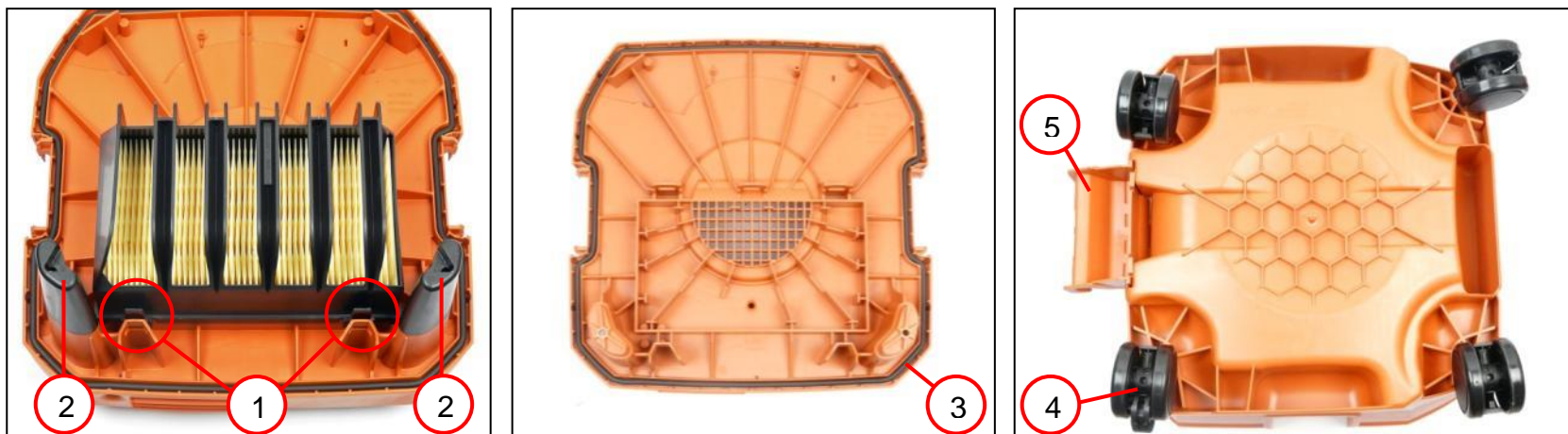
Disassembling motor



1. Remove seal (1).
2. Remove seal (2).

6. Disassembly

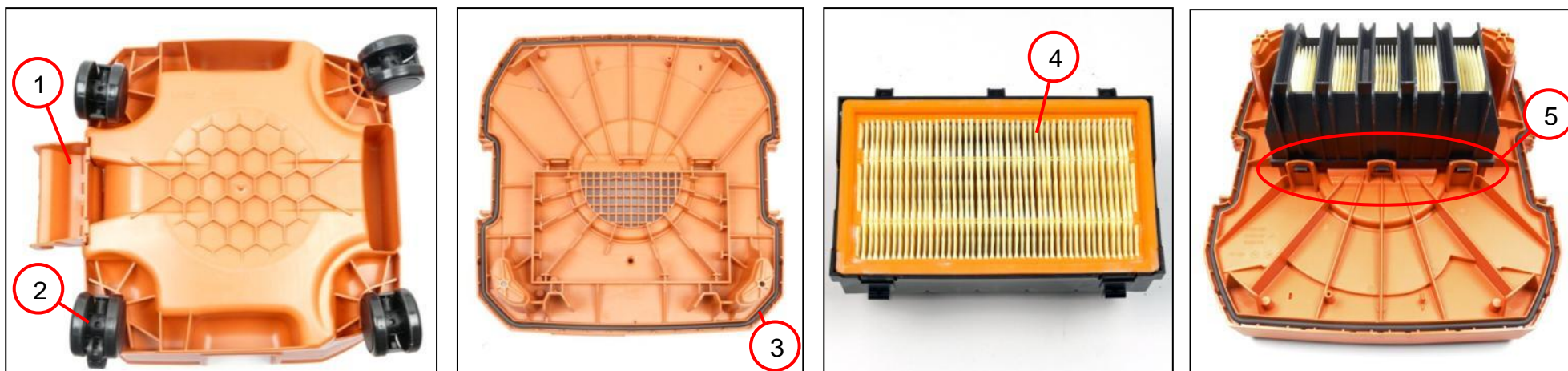
Disassembling base plate



1. Open clips (1) and remove housing with filter.
2. Remove two brackets (2).
3. Remove seal (3).
4. Pull out the four rollers (4).
5. Remove holder (5).

7. Assembly

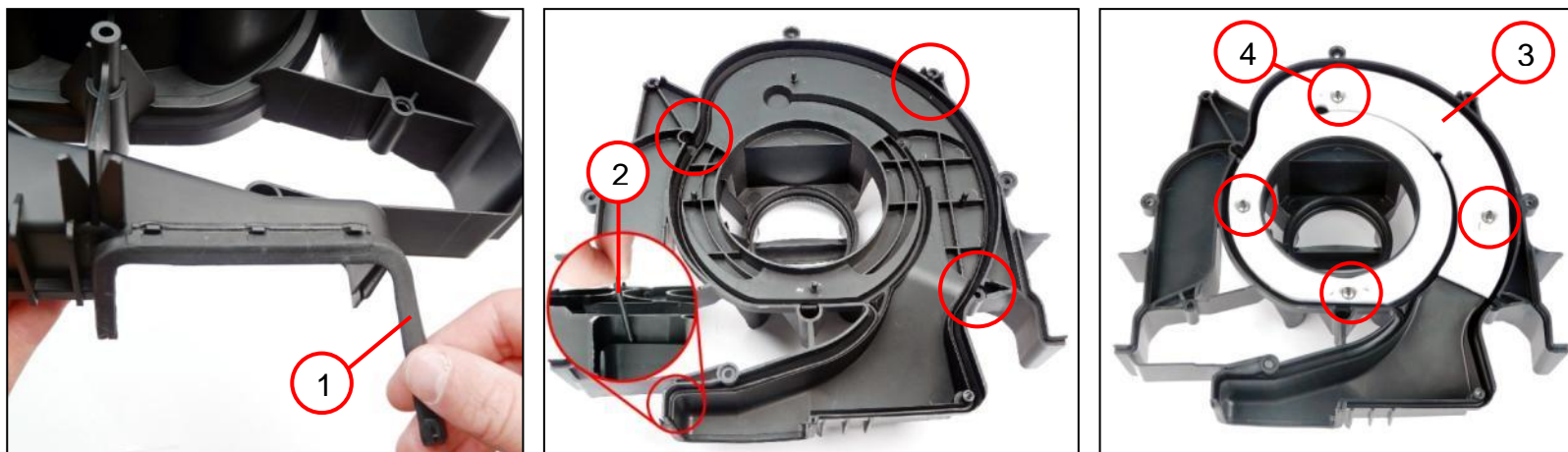
Assembling container



1. Fit holder (1).
2. Fit the four rollers (2).
3. Fit seal (3).
4. Insert filter (4) into housing.
5. Attach holder (5).
6. Push the plate in until you hear the holder's clips engage.

7. Assembly

Assembling base plate

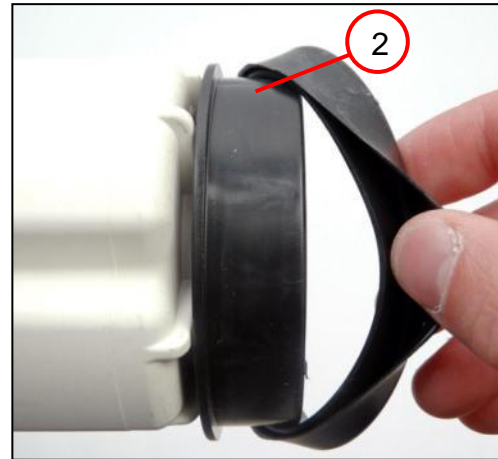
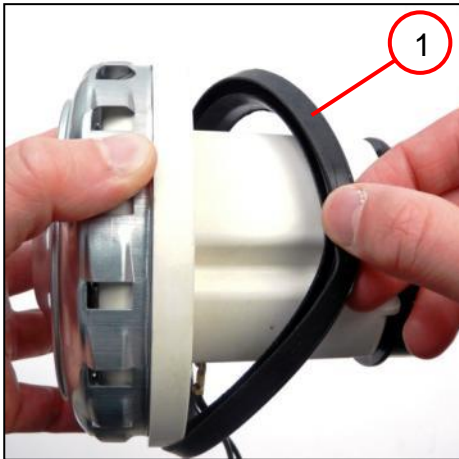


1. Fit seal (1).
2. Insert seal (2) into cut-out.
3. Insert the insert (3).
4. Fit the four circlips (4).



7. Assembly

Assembling motor

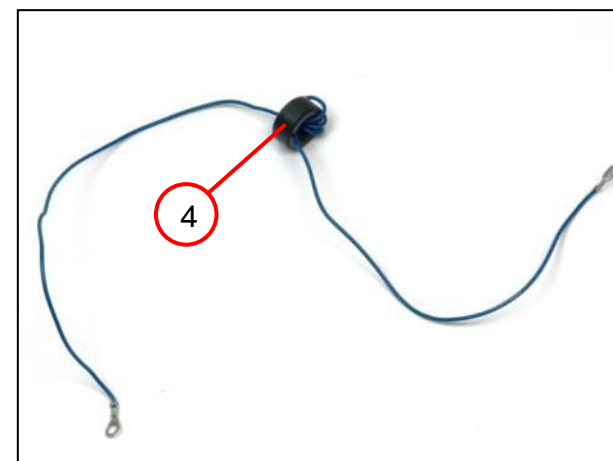
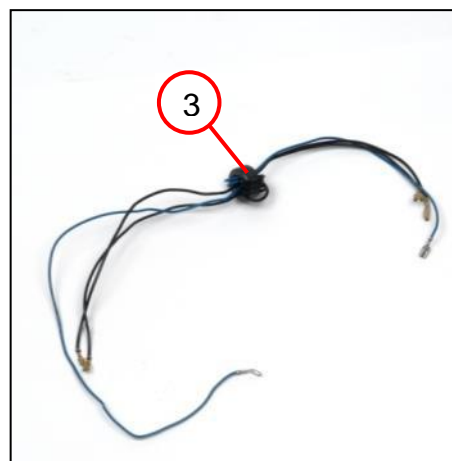
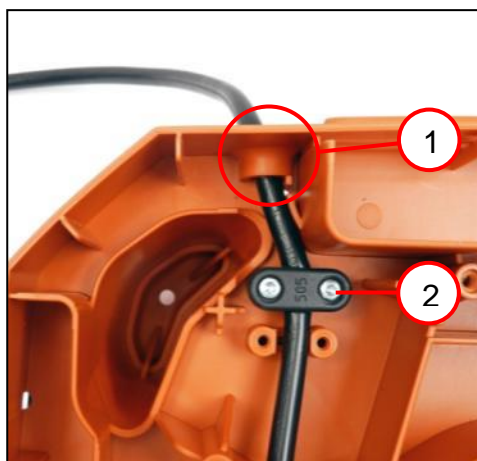


1. Place seal (1) on motor.
2. Place seal (2) on motor.



7. Assembly

Assembling base plate



1. Thread cable with plug into opening (1).
2. Position cable clamping piece (2) and screw down.
3. Wind cable of sensor and from motor around ferrite sleeve (3) twice.
4. Wind cable of sensor through ferrite sleeve (4) three times.

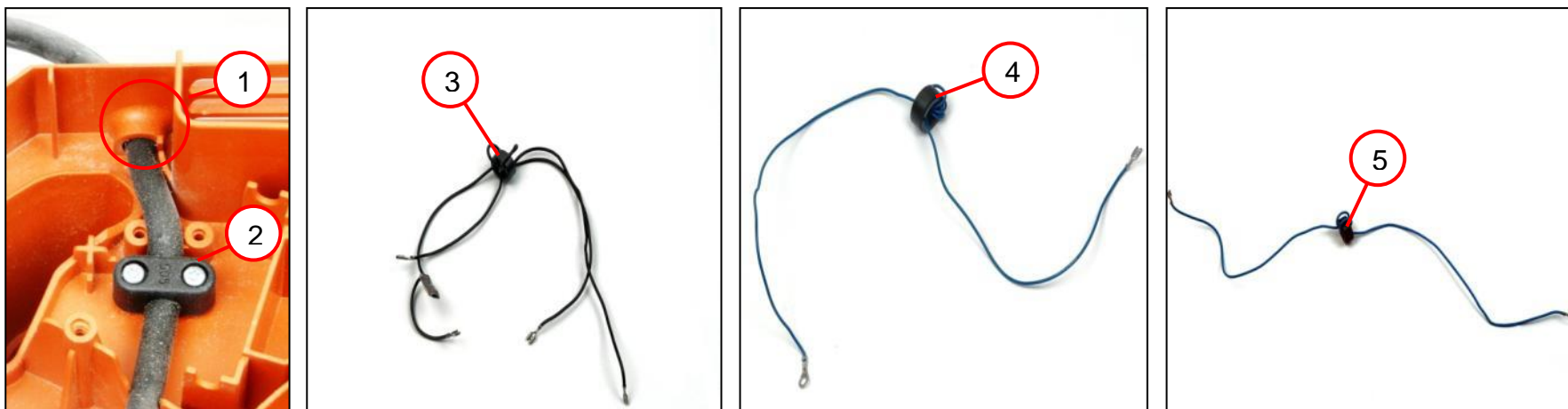
Tools:

- Torx T15
(length: 89 mm)



7. Assembly

Assembling base plate (applies to: Turbo I; Turbo II)



1. Thread cable with plug into opening (1).
2. Position cable clamping piece (2) and screw down.
3. Wind cable from motor through ferrite sleeve (3) twice.
4. Wind cable of sensor through ferrite sleeve (4) three times.
5. Wind cable of sensor through ferrite sleeve (5) twice.

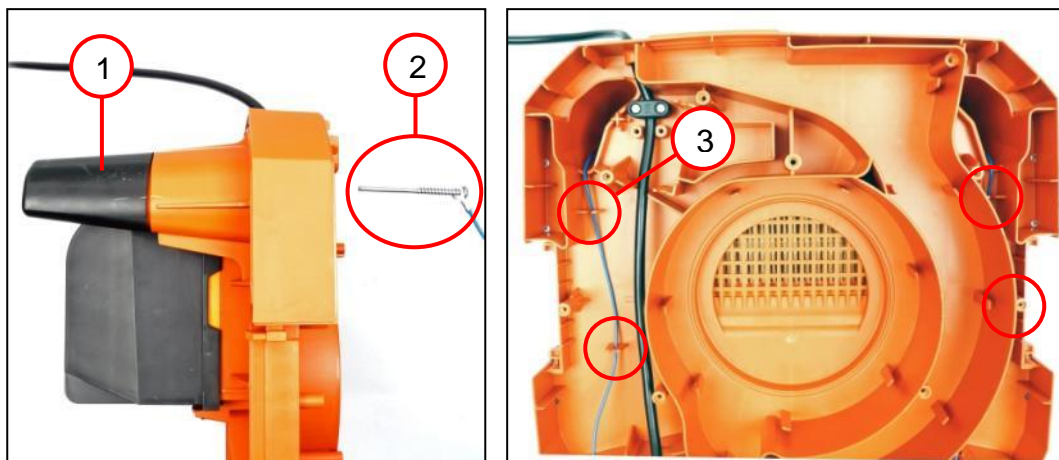
Tools:

- Torx T15
(length: 89 mm)



7. Assembly

Assembling base plate



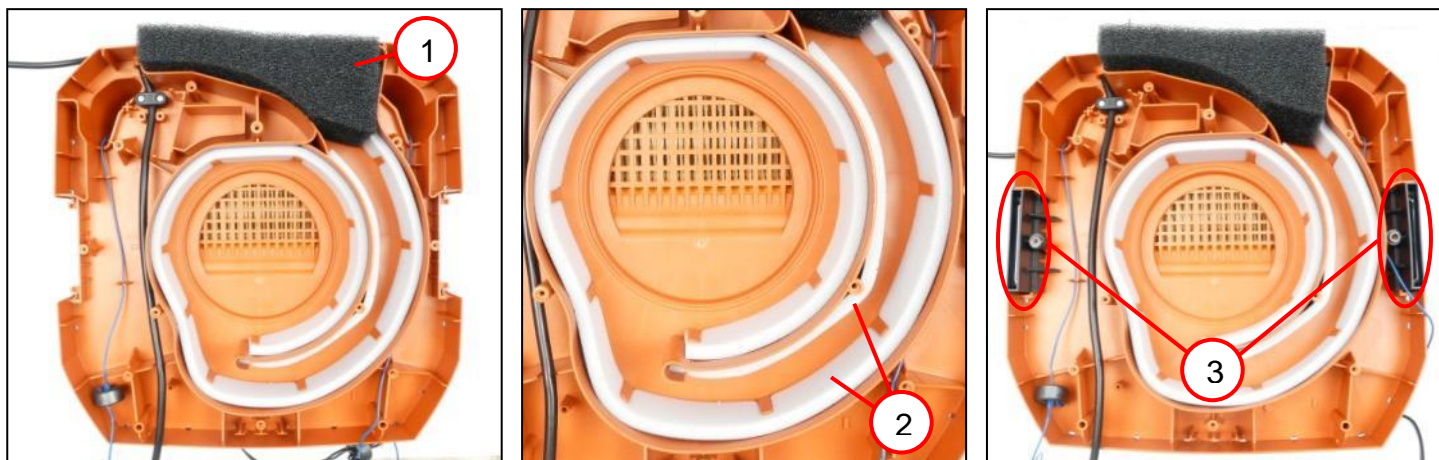
1. Position holder (1) and screw down with sensor (2) with cable.
2. Insert cables of both sensors in cable ducts (3).

Tools:

- Torx T15
(length: 89 mm)
- Torx T20
(length: 152 mm)

7. Assembly

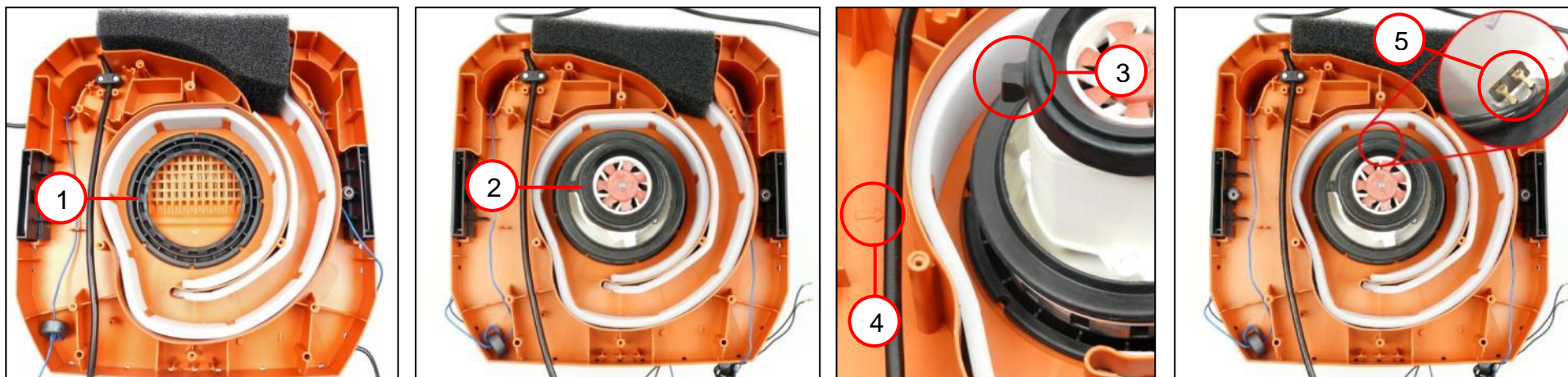
Assembling base plate



1. Insert filter (1).
2. Insert the two inserts (2) all the way in the correct position.
3. Insert two pressure pieces (3).

7. Assembly

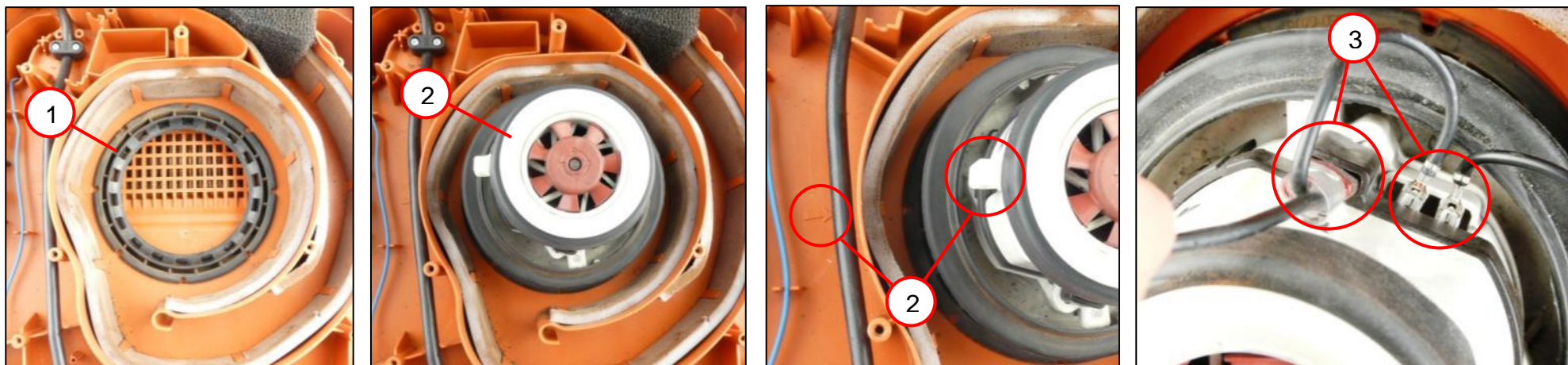
Assembling motor



1. Position motor bearing ring (1).
2. Position motor (2) on motor bearing ring.
3. Align nose (3) on motor with arrow (4).
4. Connect two cables (5) to motor.

7. Assembly

Assembling motor (applies to: Turbo I; Turbo II)

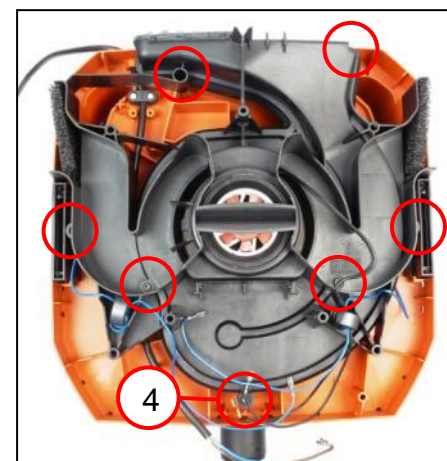
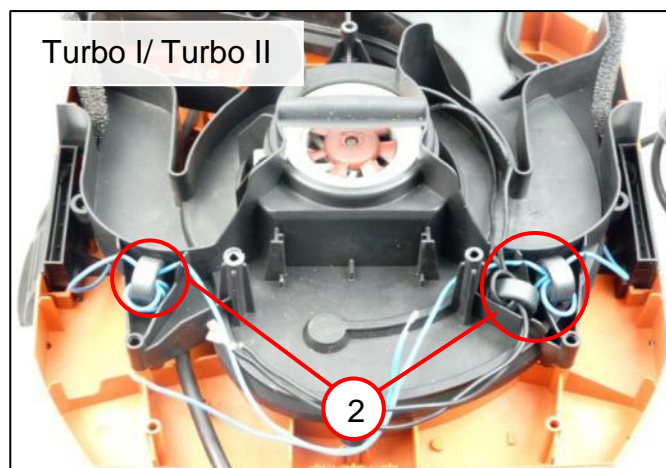
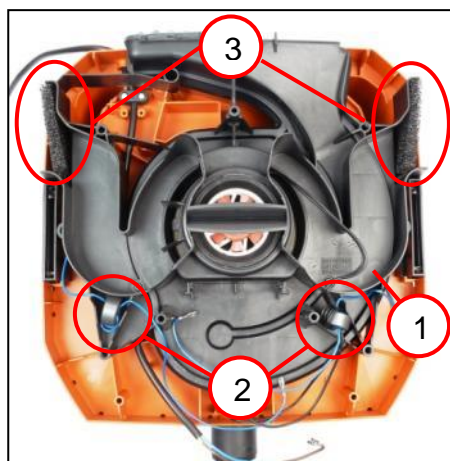


1. Position motor bearing ring (1).
2. Position motor (2) on motor bearing ring. Align motor nose with the arrow.
3. Connect two cables (3) to motor.



7. Assembly

Assembling housing



1. Fit cover (1).
2. Position the two ferrite sleeves (2) in the intended cut-outs.
☞ There are three ferrite sleeves on Turbo I/ Turbo II in total.
3. Fit filters (3).
4. Screw down housing with the seven screws (4).

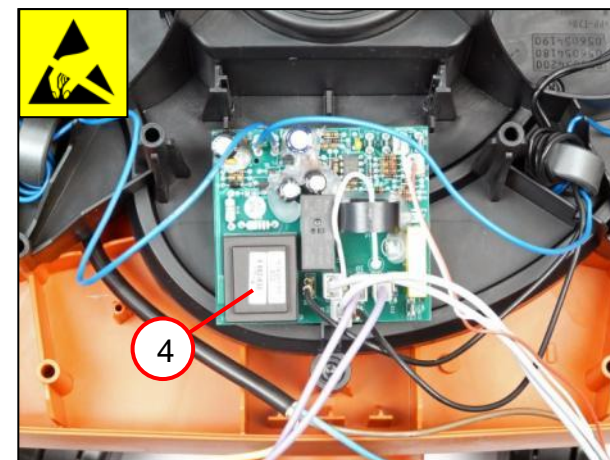
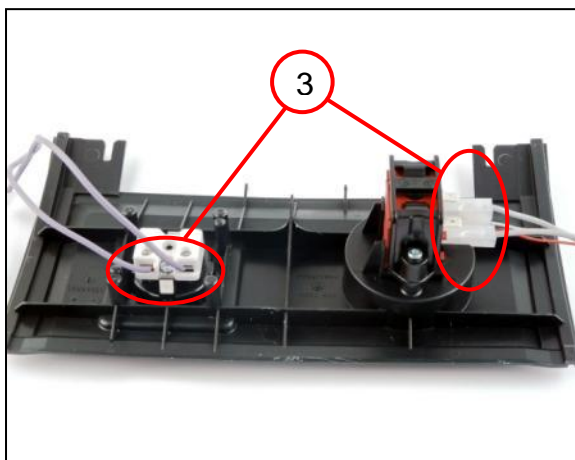
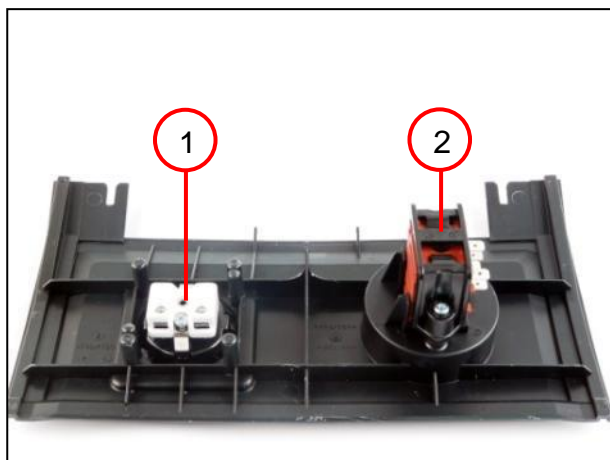
Tools:

- Torx T20
(length: 89 mm)



7. Assembly

Assembling control



1. Fit socket (1).
2. Fit switch (2).
3. Wire socket and switch as shown in circuit diagram.
4. Wire electronics (4) as shown in circuit diagram.

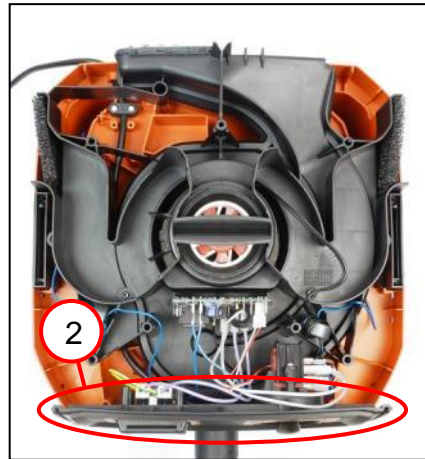
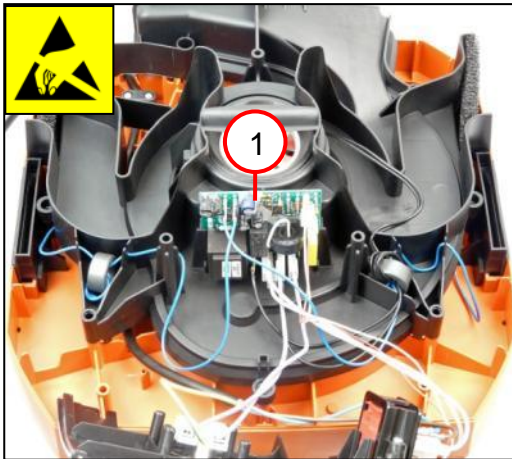
Tools:

- Torx T15
(length: 89 mm)
- Cross-tip screwdriver
PH1



7. Assembly

Assembling control

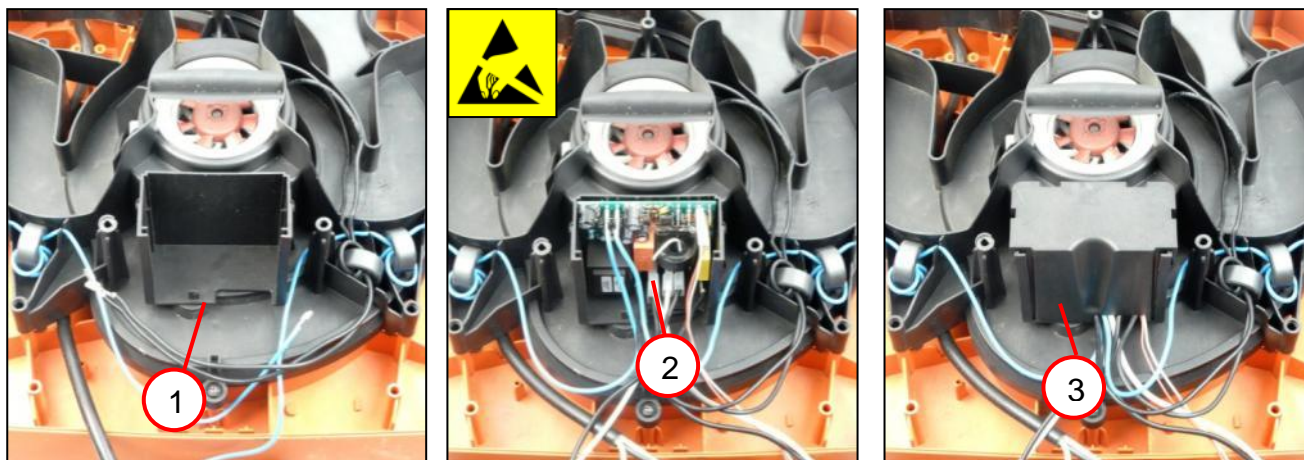


1. Slide electronics (1) into holder.
2. Place control (2) on base plate.



7. Assembly

Assembling cover (applies to: Turbo I; Turbo II)

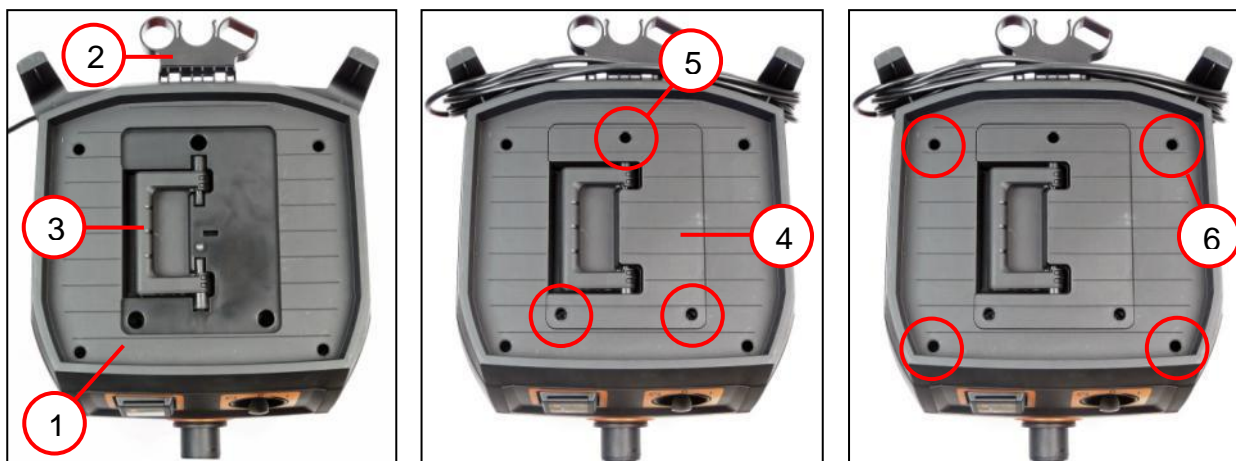


1. Insert housing (1).
2. Insert electronics (2).
3. Fit cover (3).



7. Assembly

Assembling base plate



1. Place hood (1) on base plate.
2. Fit holder (2).
3. Insert handle (3) into cut-out.
4. Place holder (4) in cut-out.
5. Screw down holder with the three screws (5).
6. Screw down hood with the four screws (6).

Tools:

- Torx T20
(length: 152 mm)



8. Connection diagram

Fault	Remedy
Suction turbine does not run	Turn the device on
	Check the power cable, plug, fuse, outlet and fill level sensors
	Operating mode selector switch is set to "Start/Stop Automatic". Set the operating mode selector switch to the "Extract" symbol and switch on the power tool connected to the socket
	Check/replace device switch. Check socket
	Check/replace PCB
	Container is full in wet operation. Empty container
	Empty container
Suction turbine switches off	Switch off extractor and wait 5 seconds before switching on again
Suction turbine does not start again after emptying container.	Clean the fill level sensors and space between the fill level sensors with a brush



8. Connection diagram

Fault	Remedy
Suction power drops	Remove obstruction from suction nozzle, pipe, hose or flat fold filter
	Change dust bag
	Install filter cover correctly
	Place extractor top correctly and close locks
	Check suction system for leaks
	Change fleece filter bag
	Change flat filter
	Check vacuum with Pressure gauge On tool collar on used device –max. volume flow approx. 30l/s max. vacuum approx. 200mbar
Dust escapes when extracting	Check correct installation of the flat fold filter.
	Change flat fold filter
Automatic shut-down (wet extraction) does not respond	Clean the fill level sensors and space between the fill level sensors with a brush
	Automatic shut-down does not function with electrically non-conductive liquids or foam formation. Check fill level regularly

**8. Connection diagram**

Fault	Remedy
Power tool not running	Check function of power tool / replace
	Check PCB and socket, replace if necessary