ASW 18-6 (7 112 62 .. .. .)
ASW 18-6-PC (7 112 63 .. .. .)
ASW 18-12 (7 112 64 .. .. .)
ASW 18-12-PC (7 112 64 .. .. .)

Technical data

Technical data

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

Tests

Up-to-date test data and test instructions after repair can be found on the FEIN Extranet (Customer Service → Repair Guides).

Lubricants / Auxiliary substances

The lubricants or auxiliary substances and their 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

Notes and requirements

Please 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 employer's liability insurance associations are to be observed when commissioning.

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

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

Lubricants and auxiliary substances required

Lubricants

Grease	0 40 123 0100 0	0.6 g	Tool holder; clutch ring

Auxiliary substances

Loctite 638

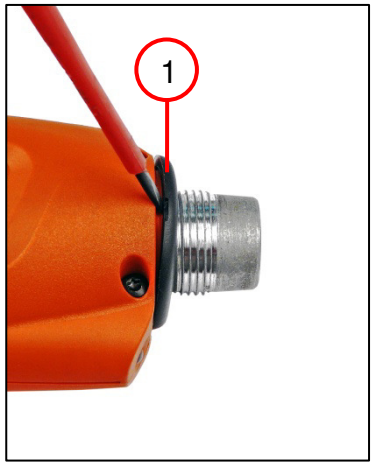
Loctite 243

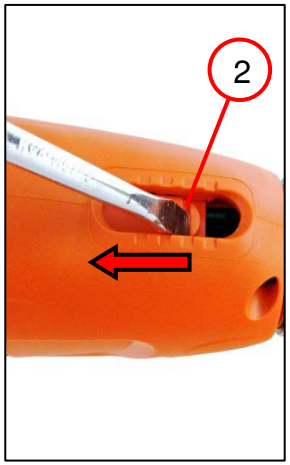
Troubleshooting

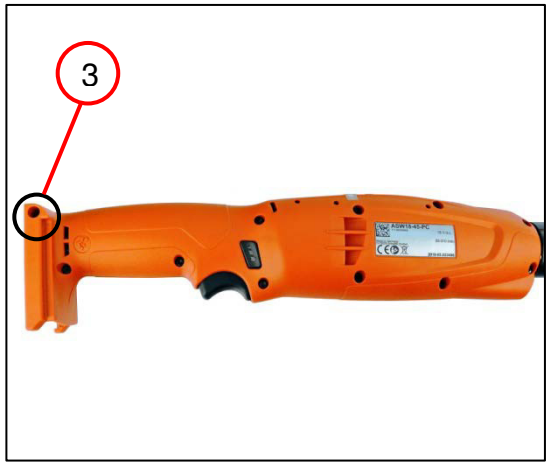
Not yet available.

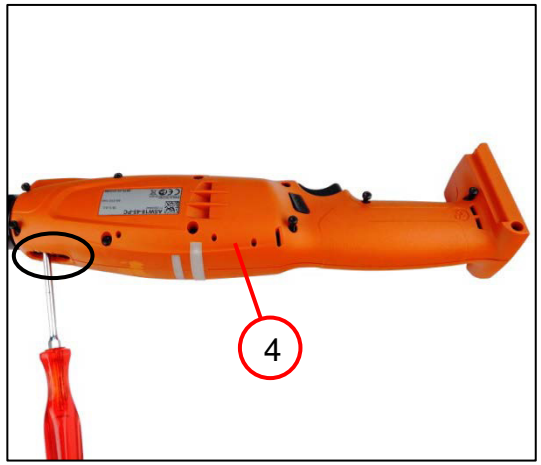
Removal

Removing the motor housing









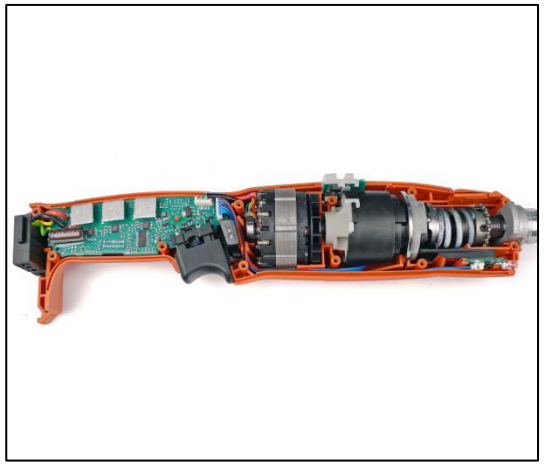
1. Remove the sleeve (1).
2. Slide back the cover (2).
3. Unscrew the eleven screws (3).
4. Pry off the motor housing (4).
   ☞ Place the screwdriver between the clutch and the upper part of the housing.

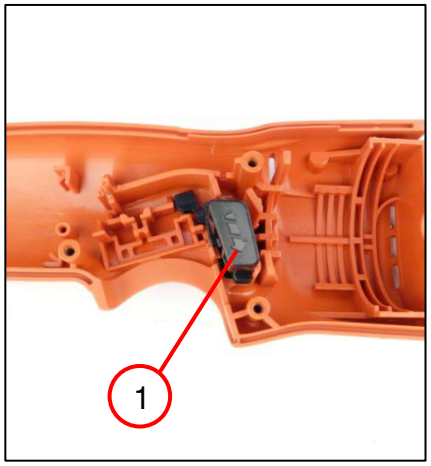
Tools:

- Flat-head screwdriver 40x2
- Flat-head screwdriver 90x4.5
- Torx T10

Removal

Removing the gearbox housing

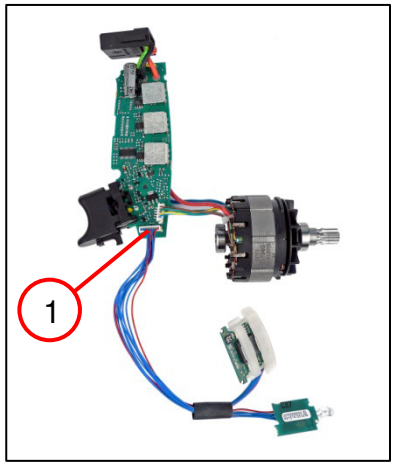


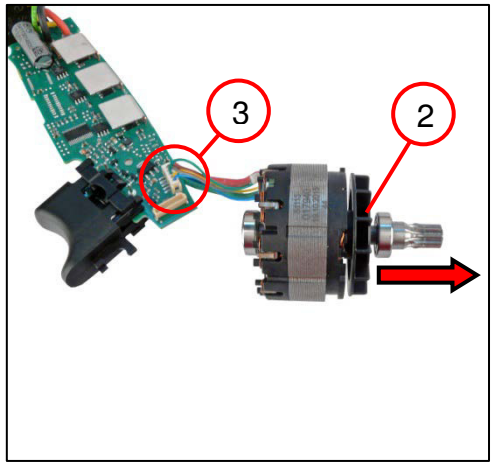


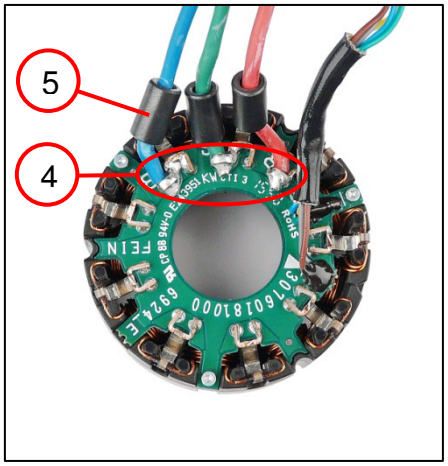
1. Remove all components.
2. Remove the toggle switch (1).

Removal

Removing the electronics







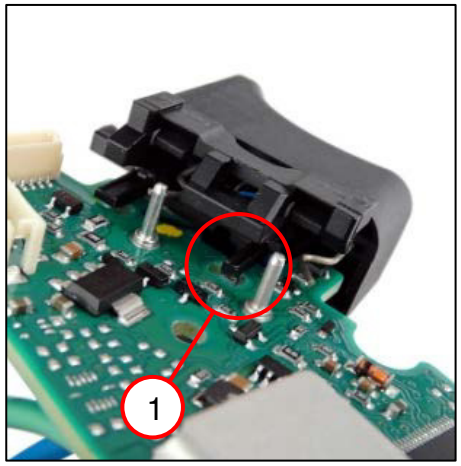
1. Pull off the plug (1).
2. Remove the rotor (2).
3. Pull off the plug (3).
4. Unsolder the three cables (4).
5. Remove the three ferrite cores (5).

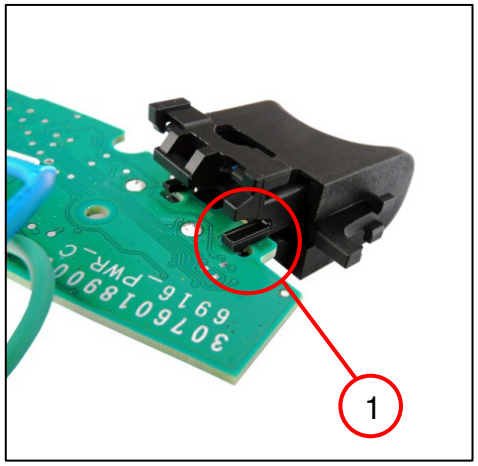
Tools:

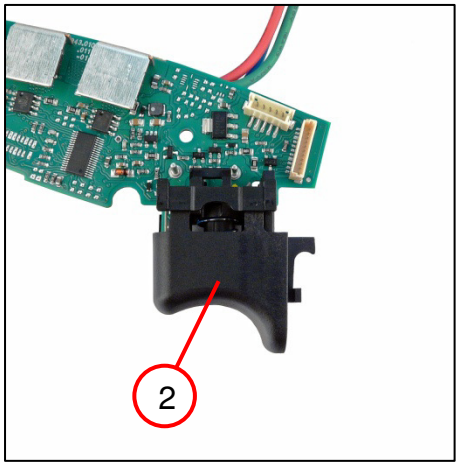
- Soldering station

Removal

Removing the electronics



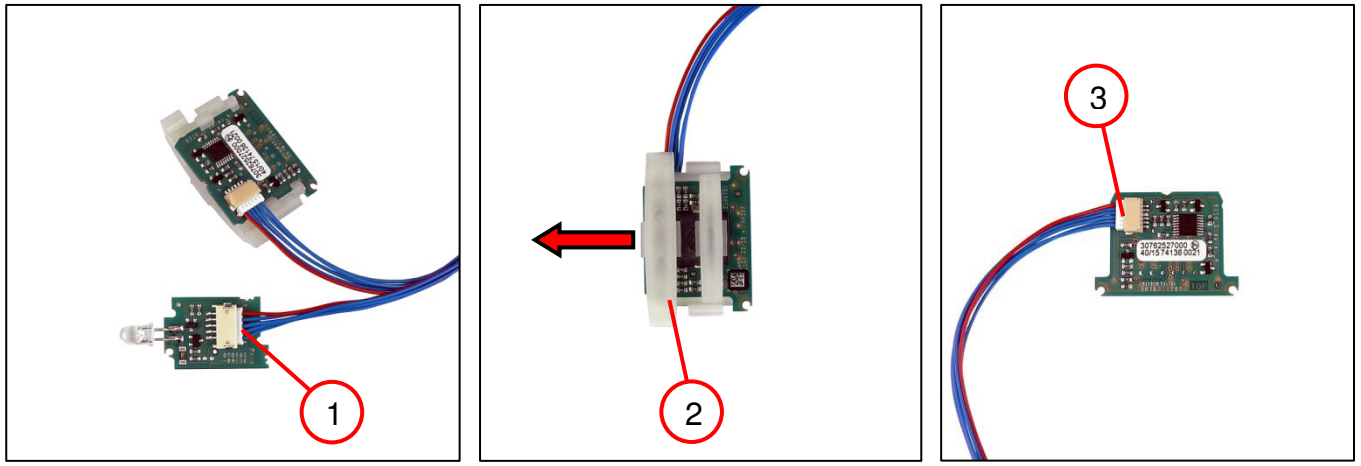




1. Lift the hook (1) on each side.
2. Pull off the switch (2).

Removal

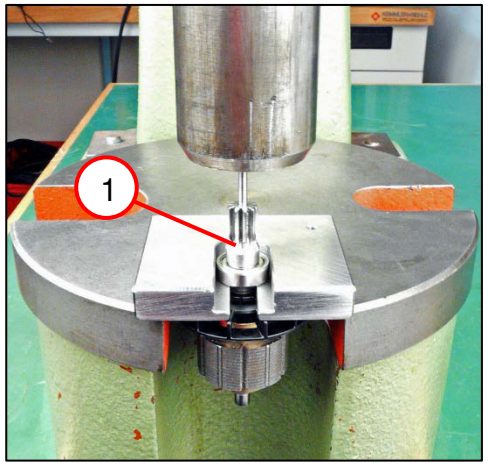
Removing the electronics

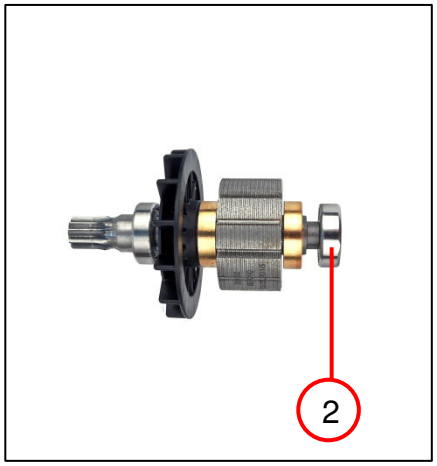


1. Remove the plug (1).
2. Remove the cover (2).
3. Remove the plug (3).

Removal

Removing the rotor





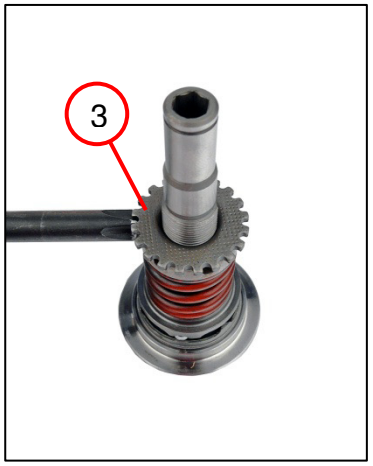
1. Press down the grooved ball bearing and the gear-wheel [N = 10] (1).
2. Remove the grooved ball bearing (2).

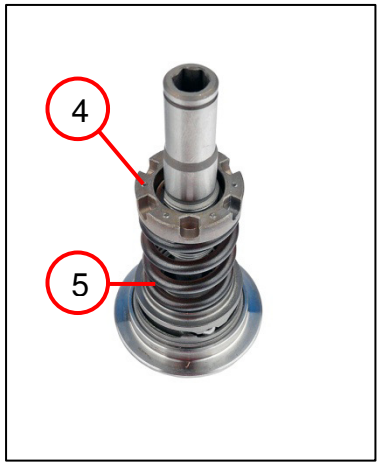
Tools:

- Arbor press
- Drawing-off plate

Removal

Disassembling the clutch





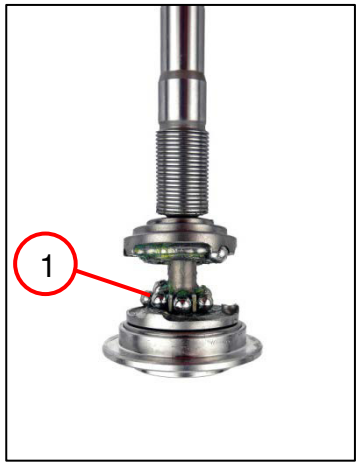
1. Remove the ring (1).
2. Remove the circlip (2).
3. Remove the adjusting ring (3) [left-handed thread].
4. Remove the ring (4).
5. Remove the spring (5).

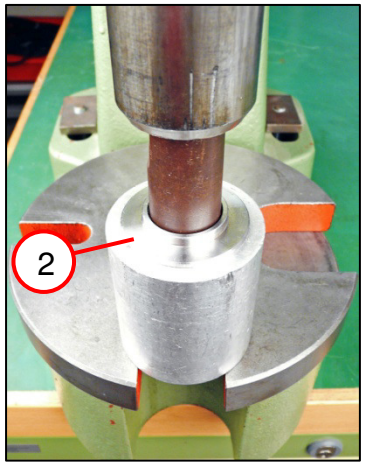
Tools:

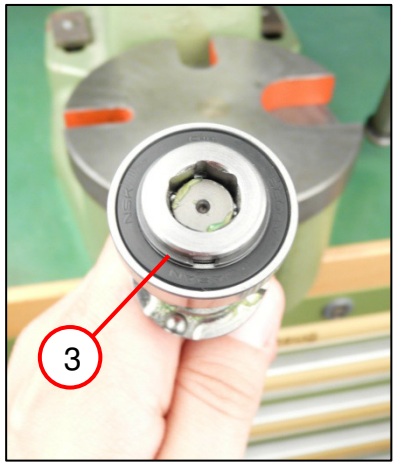
- Circlip pliers
- Torque adjusting spanner

Removal

Disassembling the clutch







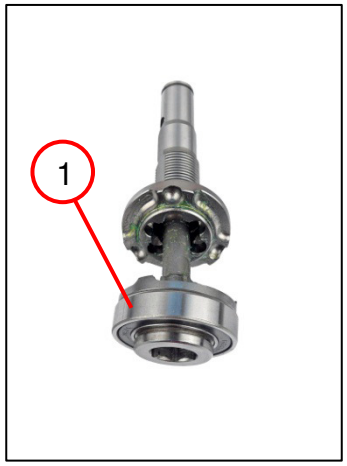
1. Remove the nine balls (1).
2. Remove the flange (2).
3. Remove the circlip (3).

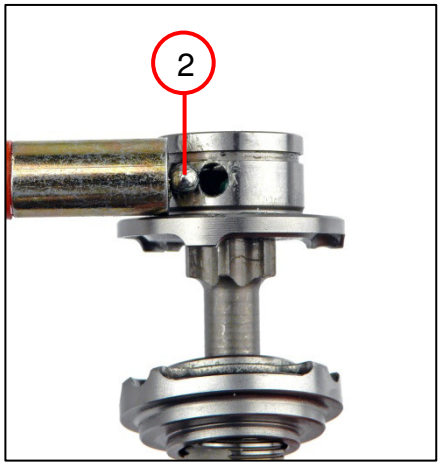
Tools:

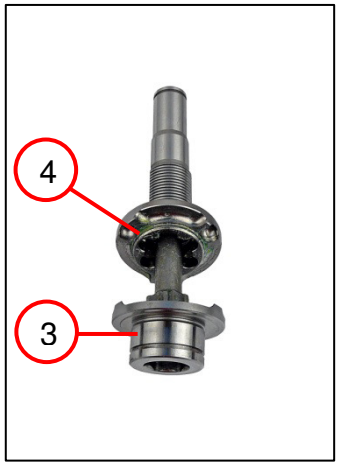
- Forceps
- Arbor press
- Sleeve
  50 mm outer diameter
  36 mm inner diameter
- Bolt with 20 mm diameter
- Circlip pliers

Removal

Disassembling the clutch







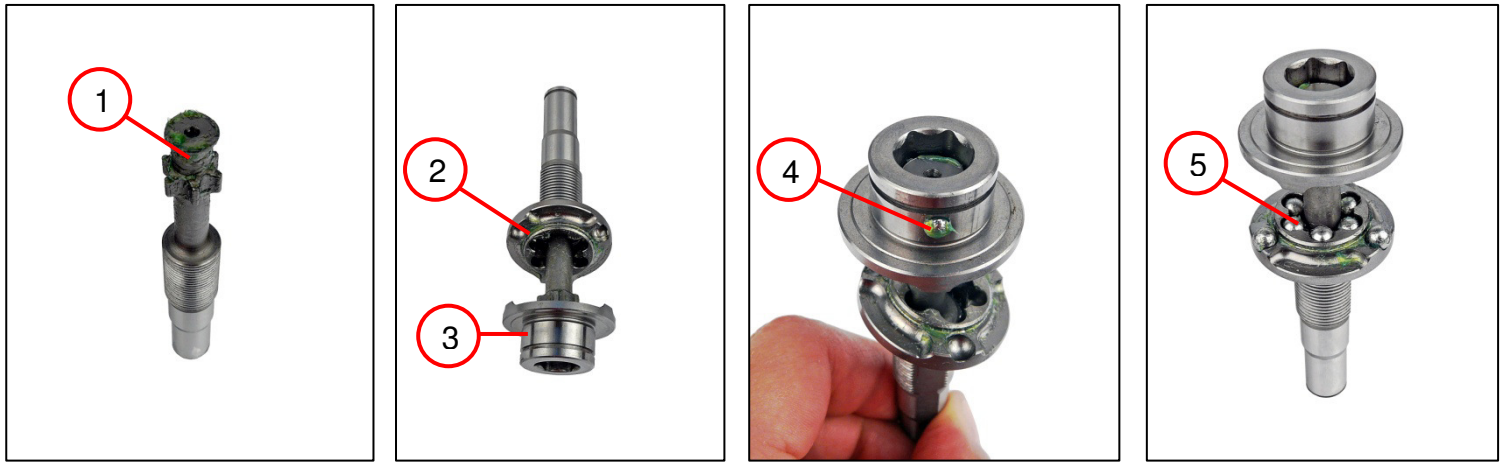
1. Remove the grooved ball bearing (1).
2. Remove the nine balls (2).
3. Remove the clutch ring (3).
4. Remove the clutch ring (4).

Tools:

- Drawing-off socket cap
- Clamping sleeve, dia. 32 mm
- Bar magnet

Fitting

Assembling the clutch



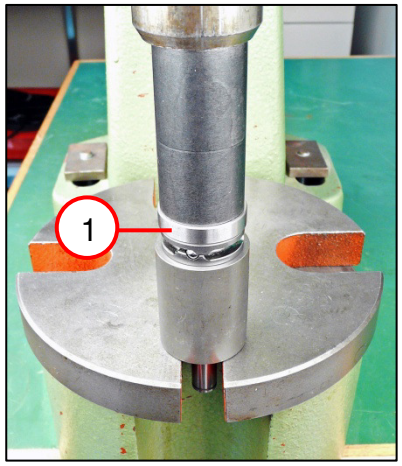
1. Grease the tool holder (1).
2. Position the clutch ring (2).
3. Position the clutch ring (3).
4. Grease the nine balls [d = 4 mm].
5. Insert the nine balls [d = 4 mm] (4).
6. Grease the nine balls [d = 5 mm].
7. Insert the nine balls [d = 5 mm] (5).

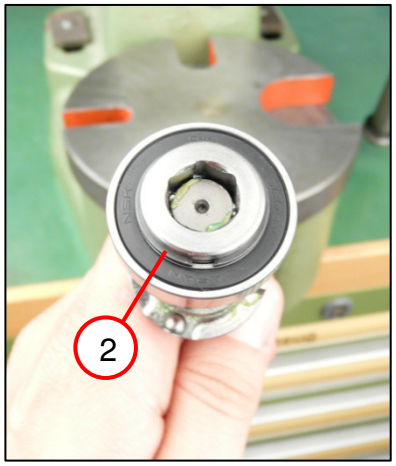
Tools:

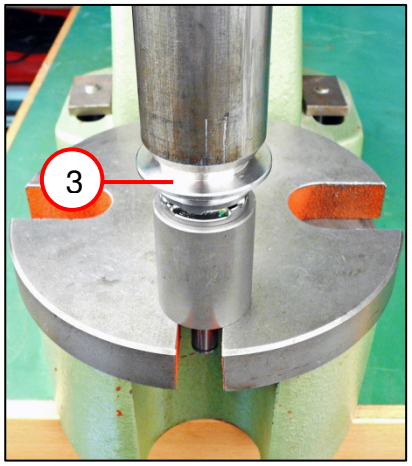
- Forceps

Fitting

Assembling the clutch







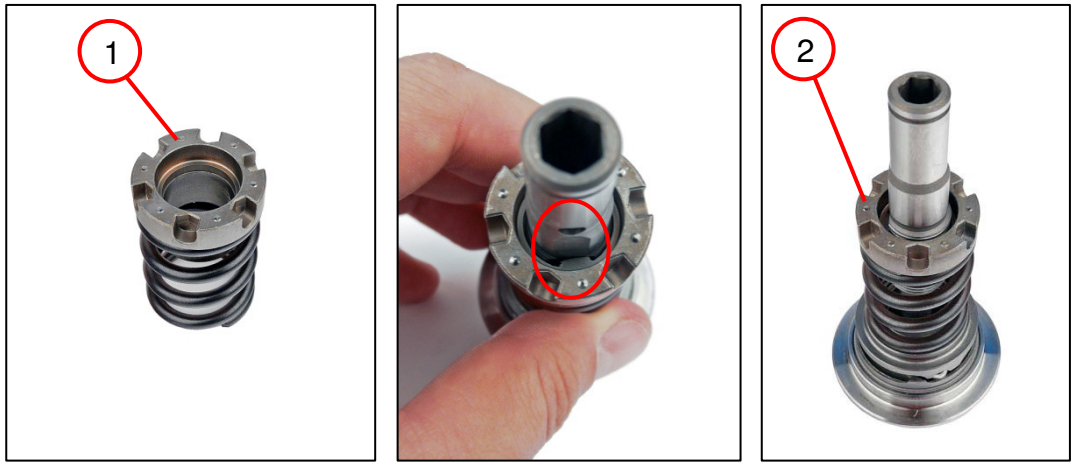
1. Press on the grooved ball bearing (1).
2. Fit the circlip (2).
3. Press on flange (3).

Tools:

- Arbor press
- Sleeve
  32 mm outer diameter
  21 mm inner diameter
- Sleeve
  32 mm outer diameter
  26 mm inner diameter

Fitting

Assembling the clutch



1. Position the ring (1).
2. Position the ring with the spiral spring (2).

Fitting

Assembling the clutch

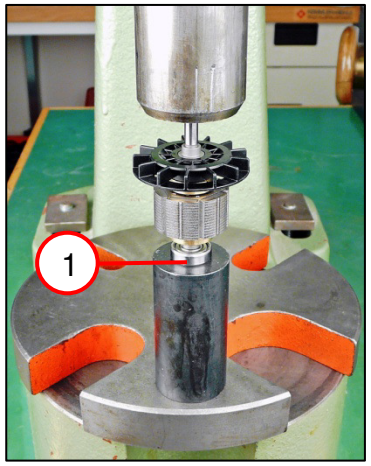
1. Fit the adjusting ring (1) [left-handed thread].
2. Fit the circlip (2).
3. Place the ring (3) in the correct position.

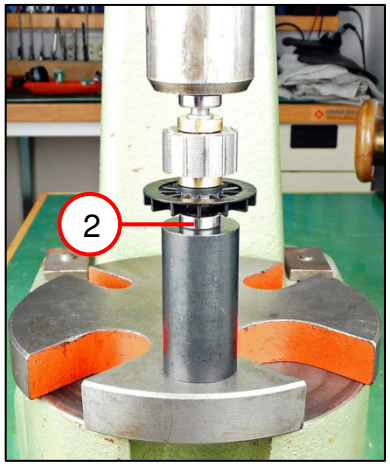
Tools:

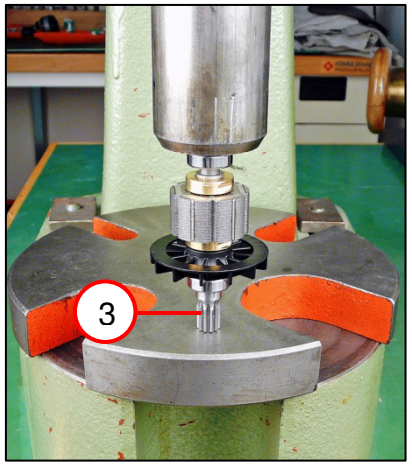
- Torque adjusting spanner
- Circlip pliers

Fitting

Fitting the rotor







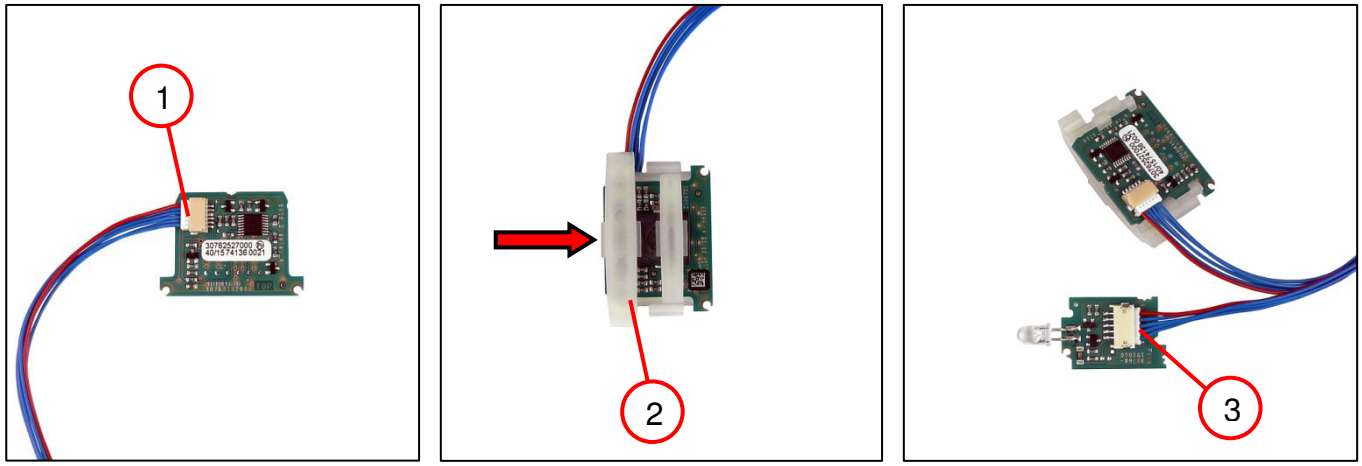
1. Press on the grooved ball bearing (1).
2. Press on the grooved ball bearing (2).
3. Press on the gear-wheel [N = 10] (3).

Tools:

- Arbor press
- Sleeve
  16 mm outer diameter
  6 mm inner diameter

Fitting

Fitting the electronics



WARNING!

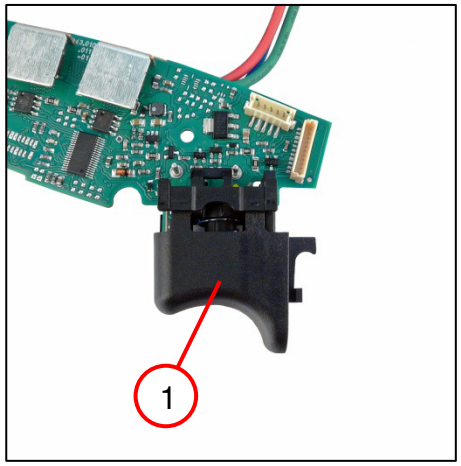
Damage from electrostatic charging.

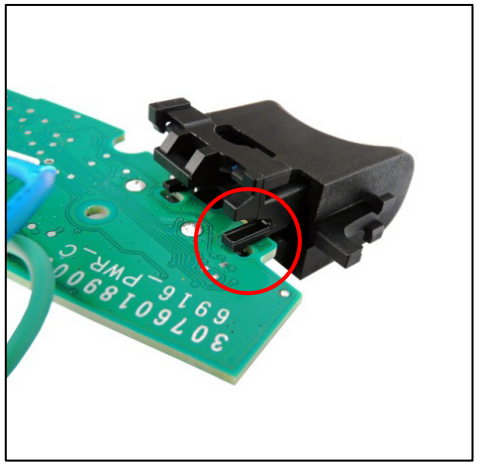
Failure to comply with the safety regulations for ESD protection may cause damage to the electronics.
☞ Only perform assembly/disassembly work on electronics on a workstation with ESD protection.

1. Connect the plug (1).
2. Slide on the cover (2).
3. Connect the plug (3).

Fitting

Fitting the electronics





WARNING!

Damage from electrostatic charging.

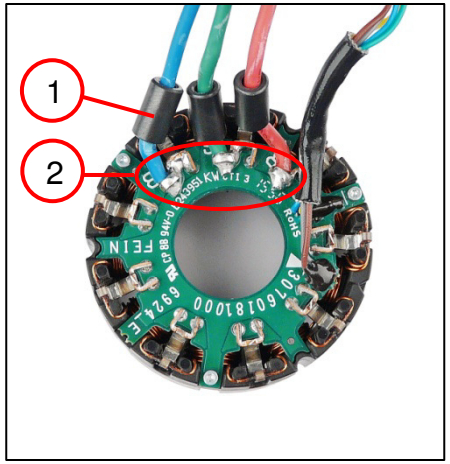
Failure to comply with the safety regulations for ESD protection may cause damage to the electronics.

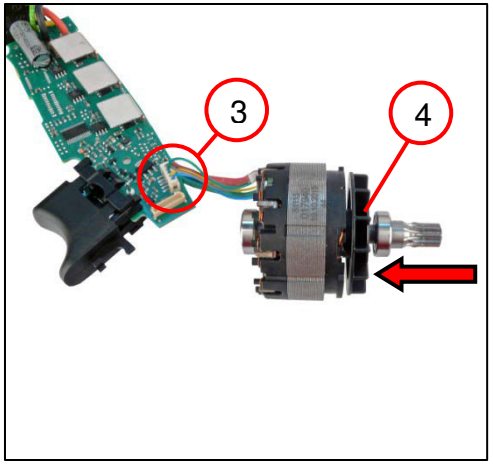
☞ Only perform assembly/disassembly work on electronics on a workstation with ESD protection.

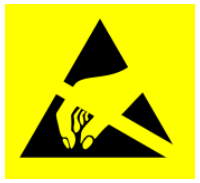
1. Fit the switch (1).

Fitting

Fitting the electronics







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.

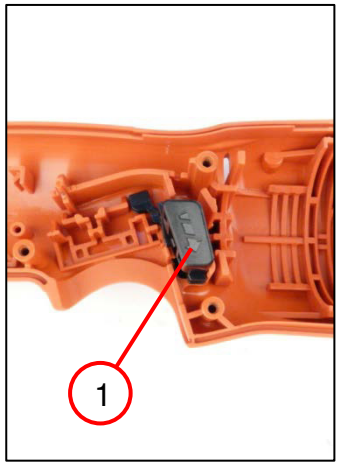
Tools:

- Soldering station

1. Position the three ferrite cores (1).
2. Solder the three cables (2) as shown in the connection diagram.
3. Connect the plug (3).
4. Position the rotor (4).

Fitting

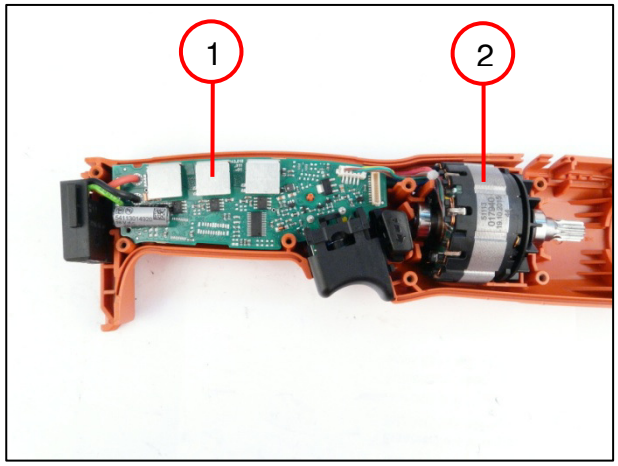
Fitting the motor housing

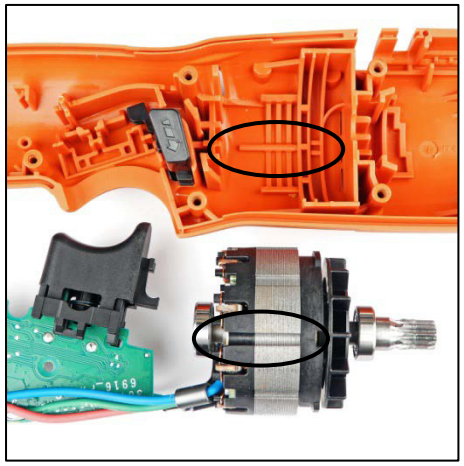
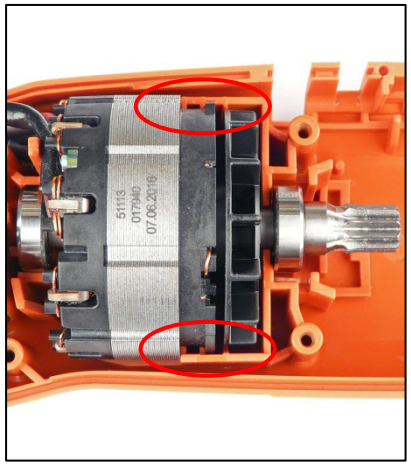
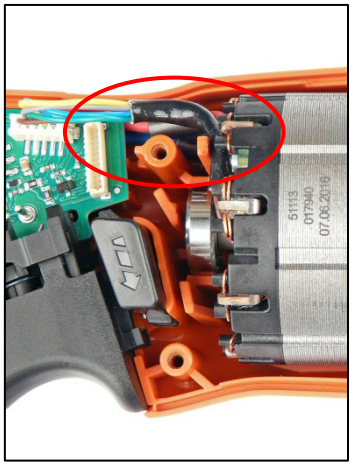


1. Position the toggle switch (1) in the lower motor housing.

Fitting

Fitting the motor housing

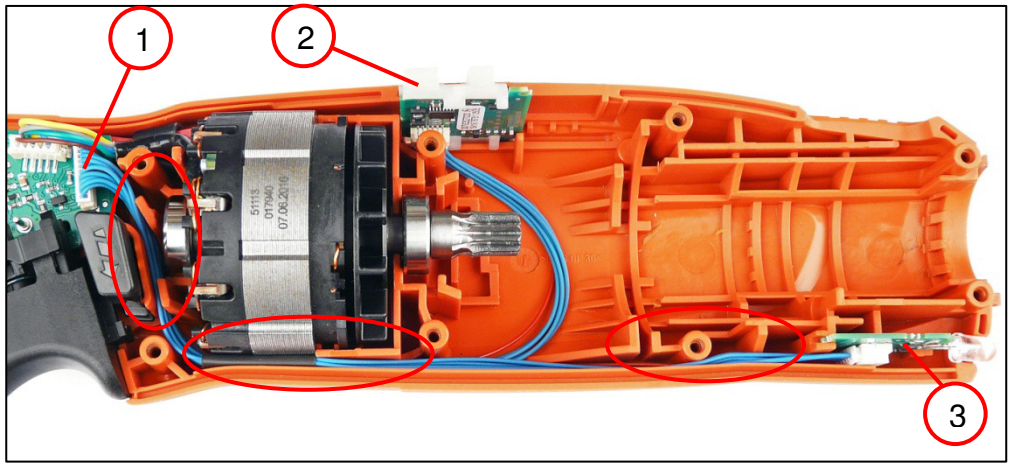


1. Position the electronics (1).
2. Correctly position the stator (2).

Fitting

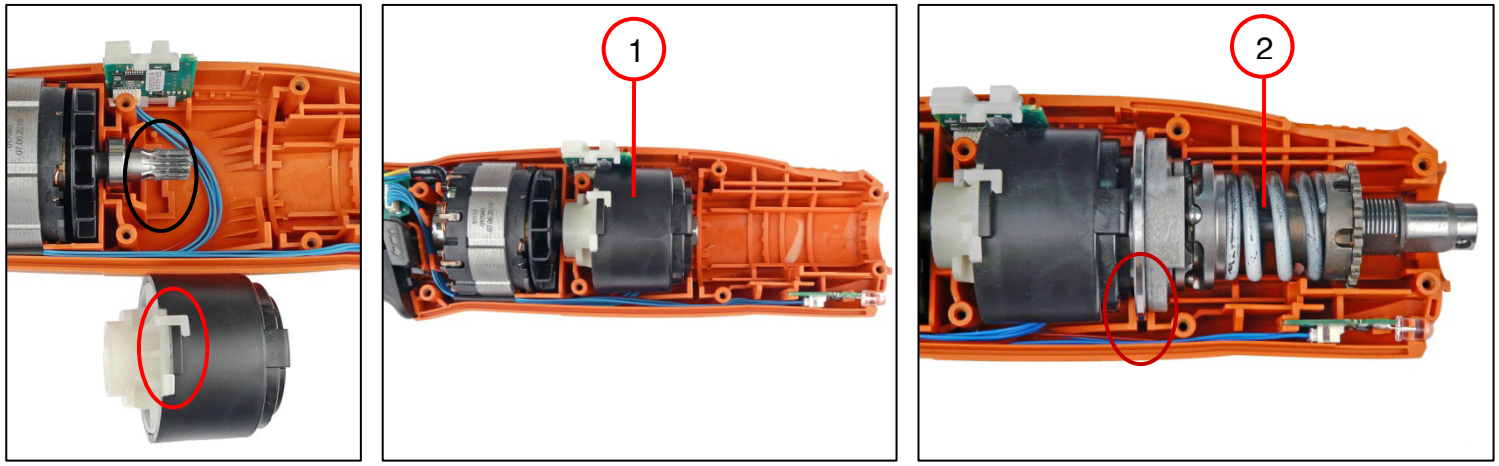
Fitting the motor housing



1. Connect the cable harness (1).
2. Route the cable harness.
3. Position the electronics (2).
4. Position the electronics (3).

Fitting

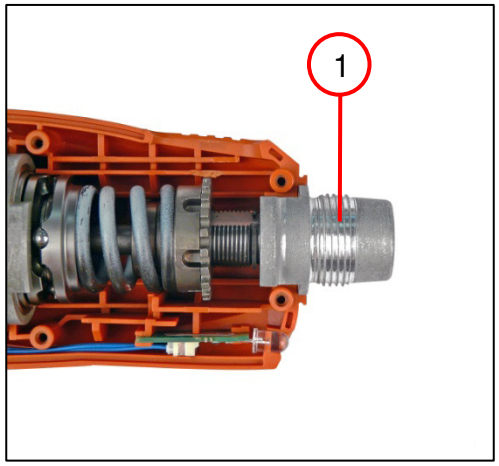
Fitting the motor housing



1. Correctly position the gearbox (1).
2. Place the clutch (2) in the correct position.

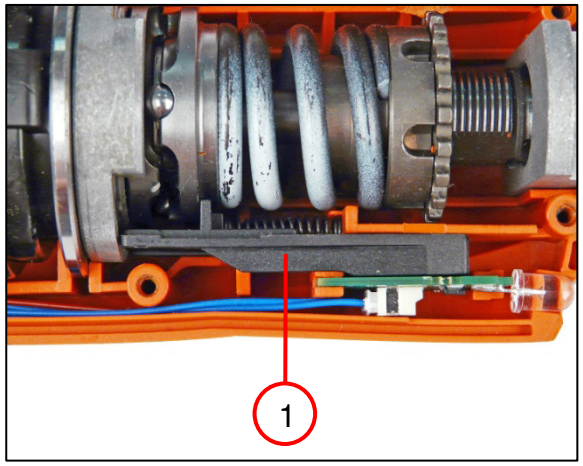
Fitting

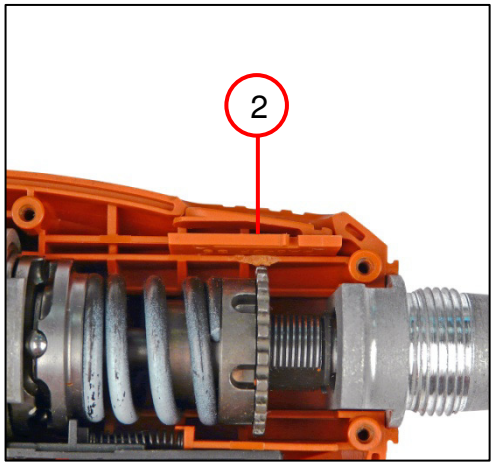
Fitting the motor housing



1. Position the flange (1) in the correct position.

Fitting the motor housing

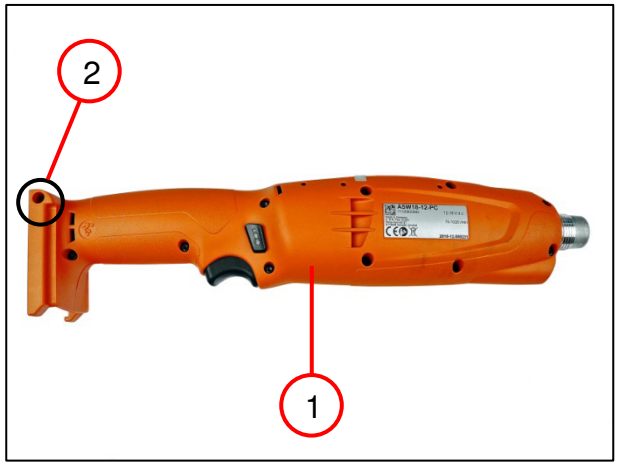




1. Position the slide switch (1).
2. Position the cover (2).

Fitting

Fitting the motor housing



1. Position the motor housing (1).
2. Screw in the 11 screws (2).
3. Position the sleeve (3).

Tools:

- Torx T10

Connection diagram

Anschlussplan
Connection diagram
Esquemade conexiones
Schémade connexion
Схéма соединéний
接线图

7 112 62 – ASW18-30 18V	**7 112 65 – ASW18-6 18V**	**7 112 69 – ASW18-18 18V**
7 112 63 – ASW18-45 18V	**7 112 66 – ASW18-6PC 18V**	**7 112 70 – ASW18-18PC 18V**
7 112 64 – ASW18-60 18V	**7 112 67 – ASW18-12 18V**	
	7 112 68 – ASW18-12PC 18V