Repair instructions





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1. Models described



These repair instructions describe how to repair the following models:

Model	Order number
ABS 18 Q	7 113 22
ASB 18 Q	7 113 23

2. 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

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3. 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.

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4. Tools required

Standard tools Special tools

Arbor press Drawing-off plate 6 41 14 037 00 0

Torx T10

Side-cutting pliers

Soldering station

Slotted screwdriver

Punch 7 mm diameter

Sleeve 6 mm inner diameter

20 mm inner diameter

5. Lubricants and auxiliary substances required



Please note

No lubricants or auxiliary substances are required for fitting ABS 18Q / ASB 18Q machines.

6. Removal



Removing the motor housing







- 1. Remove the key-type drill chuck (1).
- 2. Cut through the type plate.
- 3. Unscrew the eight screws (2).
- 4. Remove the motor housing (3).

Tools:

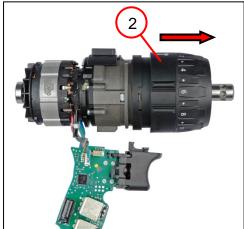
- Blade
- Torx T10

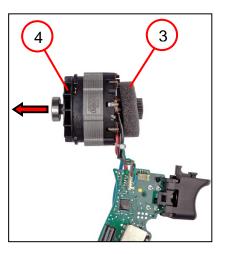
6. Removal



Removing the motor housing





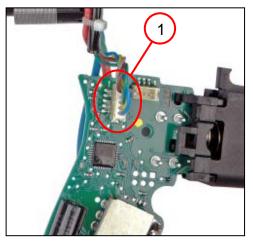


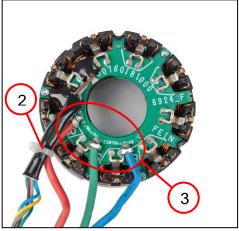
- 1. Remove the nut (1).
- 2. Remove all components from the motor housing.
- 3. Pull off the gearbox (2).
- 4. Remove the insulating ring (3).
- 5. Pull out the rotor (4).

6. Removal



Removing the motor housing





- 1. Remove the plug (1).
- 2. Remove the cable tie (2).
- 3. Unsolder the three cables (3).

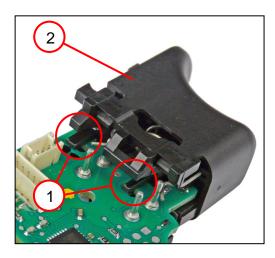
Tools:

- Side-cutting pliers
- Soldering station

6. Removal



Removing the switch



- 1. Lift up the two hooks (1).
- 2. Pull off the switch (2).

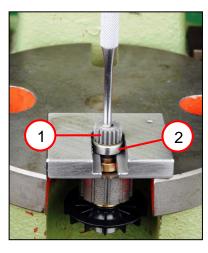
Tools:

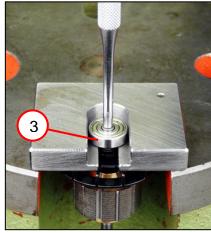
- Slotted screwdriver

6. Removal



Removing the stator





- 1. Press down on the gear-wheel (1) with the grooved ball bearing (2).
- 2. Press down on the grooved ball bearing (3).

Tools:

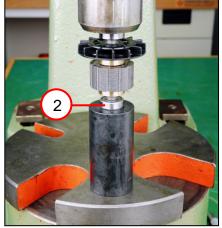
- Arbor press
- Punch, 7 mm diameter
- Drawing-off plate

7. 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 (3).

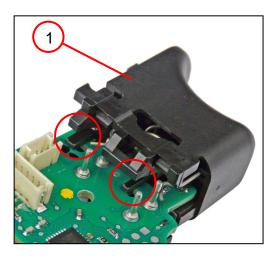
Tool:

- Arbor press
- Sleeve 6 mm inner diameter 20 mm outer diameter

7. Fitting



Fitting the switch

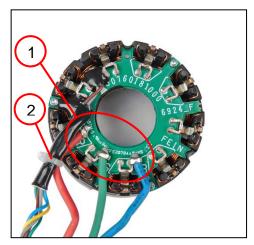


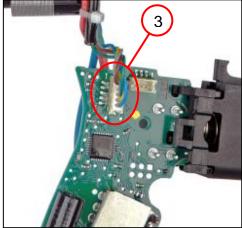
1. Position the switch (1).

7. Fitting



Fitting the stator





- 1. Solder the three cables (1) as shown in the connection diagram.
- 2. Push the protective hose up to the soldering point.
- 3. Secure the cable harness to the red cable (2) with a cable tie.
 - Place the cable tie in the correct position as shown in the photograph.
- 4. Insert the cable (3).

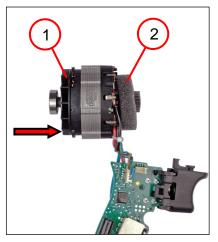
Tool:

- Soldering station
- Side-cutting pliers

7. Fitting



Fitting the gearbox





Caution: Magnetic field!

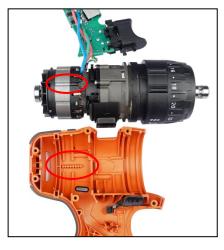
Damage caused by metal foreign bodies on the rotor.

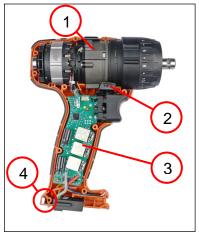
- Clean the rotor before fitting.
- 1. Insert the rotor (1).
- 2. Position the insulating ring (2).
- 3. Fit the gearbox (3).

7. Fitting



Fitting the gearbox









- 1. Insert the gearbox (1) in the correct position.
- 2. Insert the toggle switch (2).
- 3. Insert the electronics (3) in the correct position.
- 4. Insert the nut (4).
- 5. Position the motor housing (5).
- 6. Screw in the ten screws (6) [1.2 Nm $^{\pm0.1~\text{Nm}}$].
- 7. Fit the key-type drill chuck (7).

Tool:

- Torx T10

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8. Troubleshooting

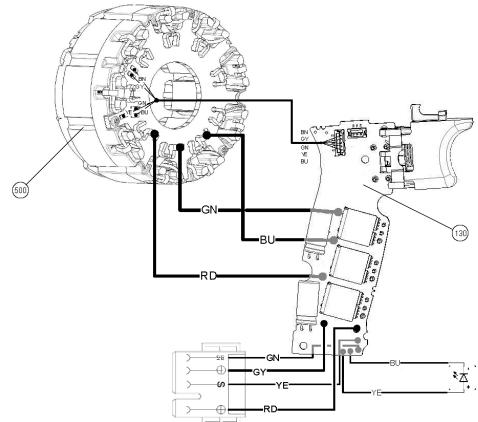
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9. Connection diagram

Anschlussplan

Connection diagram Esquemade conexiones Schémade connexion Схéма соединéний 接线图



7 113 18 - ABS14 /14,4V 7 113 19 - ABS18 /18V 7 113 22 - ABS18Q /18V 7 113 23 - ASB18Q /18V

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