

Repair instructions

AFSC 18





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Repair instructions



1. Models described

These instructions describe how to repair the following models:

Model	Order no.
AFSC 18	713601, 713602



2. Technical data and test data

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

Up-to-date test data for all models can be found on the FEIN Extranet.

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



3. Provisions

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.

Only use original FEIN spare parts!

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!



4. Tools required

Standard tools:

Torx 15 screwdriver
Soldering rod
Arbor press
Blade
Punch
Plastic hammer
Slide gauge

Special tools:

Sleeve Inner diameter 55 mm
Outer diameter 65 mm

Sleeve Inner diameter 13 mm
Outer diameter 30 mm

These special tools are not available from FEIN.
They can be obtained from specialist retailers or you can make them yourself.

Repair instructions

5. Disassembly



Press releasing button and remove battery.

Repair instructions



5. Disassembly - Clamping lever



Drive out bolt.
Remove clamping lever and eccentric ring.
Unscrew locking spring.
Drive out bushes.

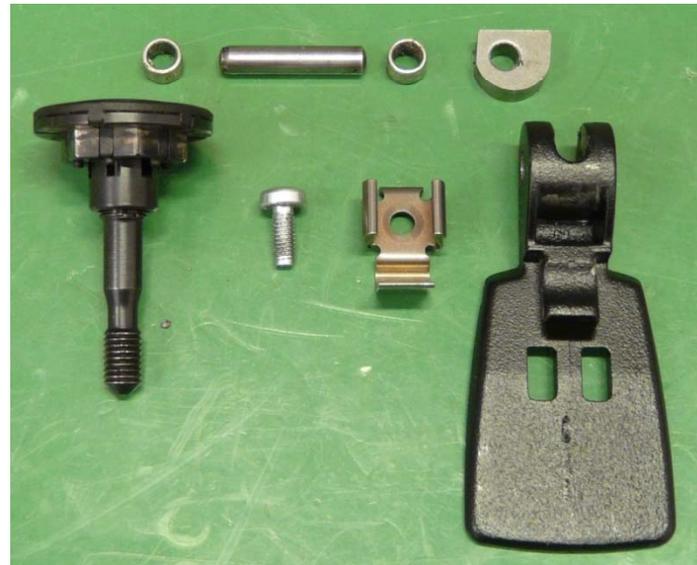
Tool

-Punch
-Torx 15 screwdriver

Repair instructions



5. Information about gear box head



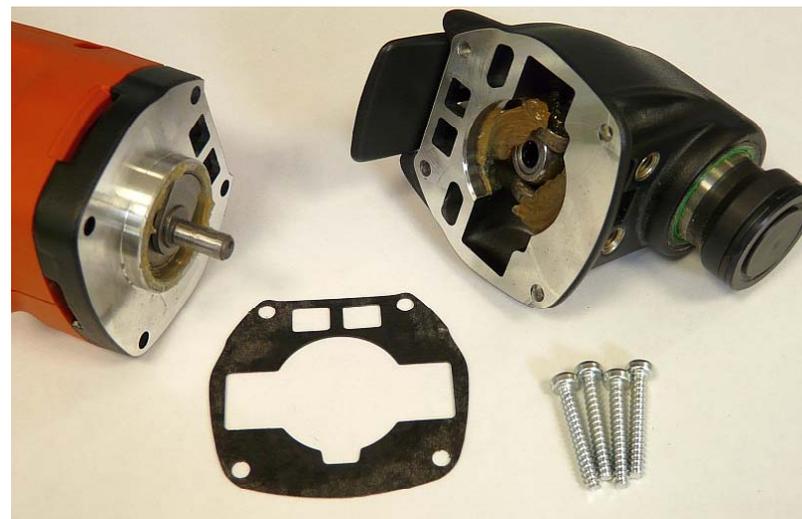
Because of the specifications for the press-in force of the drive shaft, which cannot be guaranteed after repairs, the gear box head is only replaced as a complete assembly and offered as a complete spare part.

The parts shown in the picture on the right are available separately as spare parts.

Repair instructions



5. Disassembly - Motor housing



Remove screws from gear box head.
Remove gear box head.
Remove seal.

Tool

Torx 15 screwdriver

Repair instructions



5. Disassembly - Motor housing



Remove screws from motor housing.
Cut through centre of type plate.
Remove upper section of housing.
Remove control rod.

Tool

Torx 15 screwdriver
Blade

Repair instructions



5. Disassembly - Electronics



Remove motor with electronics and intermediate bearing from lower section of housing.
Unsolder electronics.

Warning: During subsequent assembly, observe the symbol on the motor.

Red cable in contact with the **red** dot.

Tool

Soldering rod

Repair instructions



5. Disassembly – Motor / intermediate bearing



Carefully press motor out of intermediate bearing.

Warning: Normally the weight of the press punch is sufficient – if the pressing pressure is too high, the motor shaft will move.

Tool

Arbor press
Sleeve: Inner diameter 55 mm
Outer diameter 65 mm

Repair instructions

Information – Motor

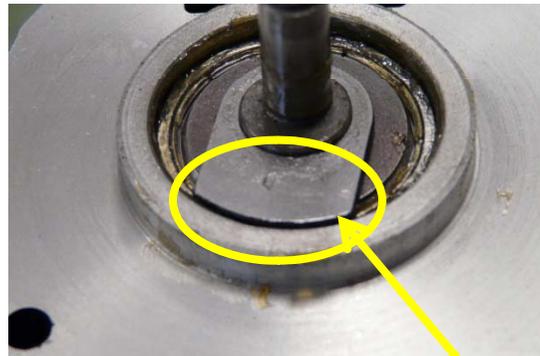


Because various fixtures are required to press on the ball bearings and the magnet ring (high manufacturing costs) and there is a risk of damage, the motor is supplied as a spare part as shown above.

Repair instructions



6. Assembly - Intermediate bearing



flush

Carefully press motor into intermediate bearing until compensating disc ends flush with intermediate bearing.

WARNING: Risk of damage to tool.

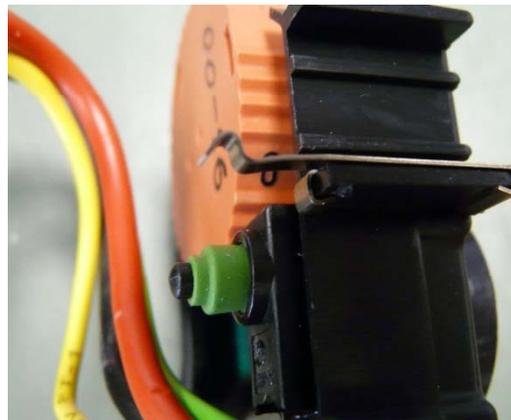
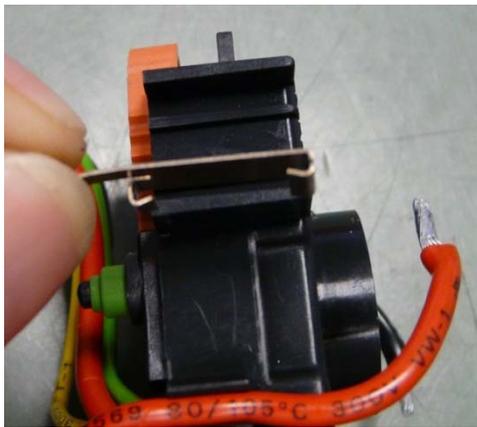
The compensating disc must not extend further than the intermediate bearing.

<u>Tool</u>
-Arbor press
-Sleeve: Inner diameter 13 mm
Outer diameter 30 mm

Repair instructions



6. Assembly - Electronics



Attach switch spring to electronics.

Solder electronics to motor.

Warning: During subsequent assembly, observe the symbol on the motor.

Red cable in contact with the red dot.

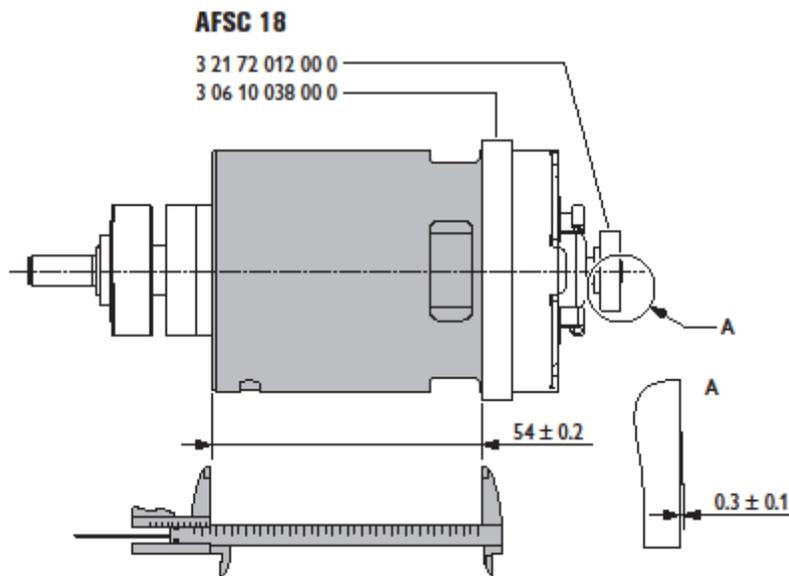
Tool

Soldering rod

Repair instructions



6. Assembly - Motor



Check dimensional accuracy of rubber ring on motor.

Tool
Slide gauge

Repair instructions



6. Assembly - Motor housing

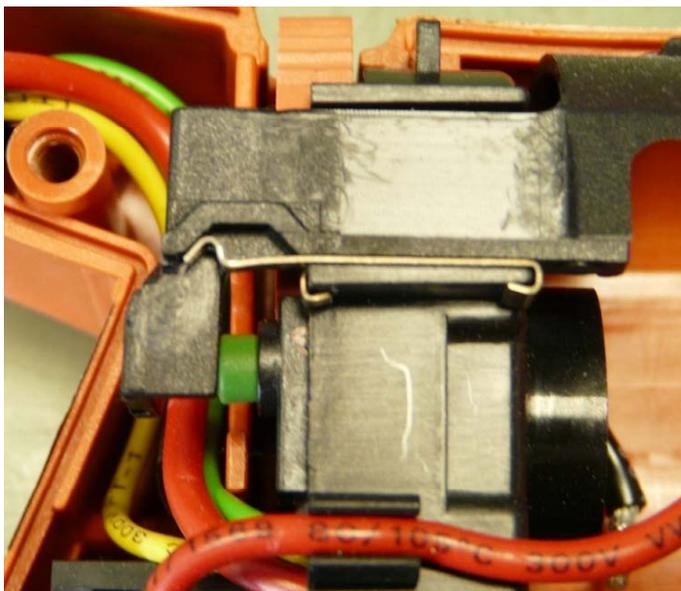


Insert motor with electronics and intermediate bearing into lower section of housing.
NOTE: Motor must sit in centring fixture in lower housing section.
Insert control rod.

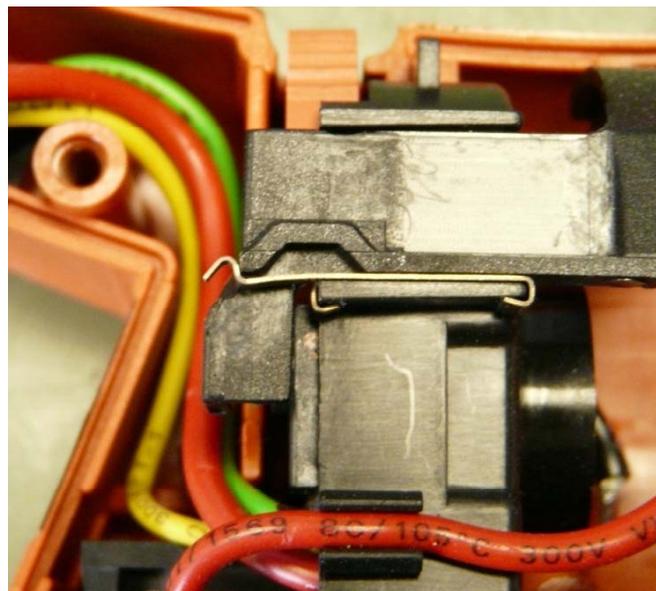
Repair instructions



6. Assembly - Motor housing



Switch position OFF



Switch position ON

When inserting the control rod, ensure that it is positioned below the spring, otherwise there will not be a switch function present.

Repair instructions

6. Assembly - Motor housing



Attach upper section of housing.
Screw housing together.
Insert damping element.

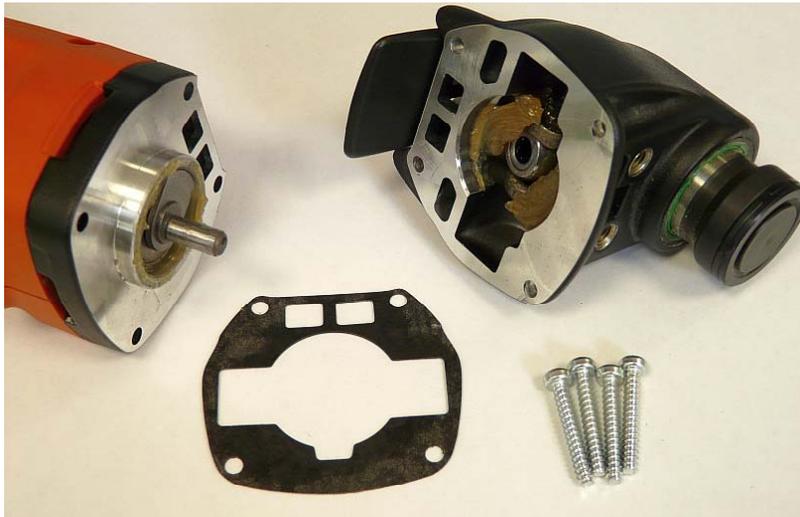
Tool

-Torx 15 screwdriver

Repair instructions



6. Assembly - Gear box head



Fill gear box head with grease (8 g).
(Lubricant ID: 32160003014)
Place seal on intermediate bearing.
Fit gear box head and screw in place.

Tool

-Torx 15 screwdriver

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6. Assembly - Clamping lever



Drive bushes into hole.
Screw down locking spring.
Fit clamping lever and eccentric ring and drive bolt into place.
Perform function check.

Tool

- Punch
- Plastic hammer
- Torx 15 screwdriver