

Repair instructions



Applies to:

RS17-70E



Models described

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Models described

1 Models described

These repair instructions describe how to repair the following models:

Model	Material number
RS17-70E	7 222 75





Technical data

2 Technical data

Technical data

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

Special tools

The special tools catalogue can be found in the FEIN electronic information system.

Lubricants and auxiliary substances

The lubricants catalogue can be found in the FEIN electronic information system.

Lists of spare parts

Lists of spare parts and exploded views are available online in our spare parts catalogue, which can be accessed via the FEIN website.

Connection diagram

The connection diagram can be found in the FEIN electronic information system.

Documents required for further repair work

- FEIN lubricants catalogue
- FEIN special tools catalogue
- All relevant service communications





Symbols used

3 Symbols used



Refers to measures for avoiding the risk of injuries.



Caution: danger of crushing.



Caution: danger of cutting.



ESD warning symbol to identify electrically sensitive components and parts.



Refers to information or instructions that should be followed. Non-observance can result in damage or malfunctions.



Read the operating instructions.



This spare part must always be replaced after disassembly.



Indicates notes that provide information or instructions that may provide a better understanding and contribute to the more effective use of the product.



Part of the navigation interface.





Notes and requirements

4 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!



Read the operating instructions for the product before carrying out any repair work.

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.

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

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

The relevant accident prevention regulations are to be observed during commissioning.

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

Disclaimer

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Safety instructions

5 Safety instructions

5.1 Structure



Signal word for the danger classification.

Type and source of the danger.

Possible consequences.

Measure that must be taken in order to avoid this danger.

5.2 Danger classification

Warning

This warning refers to a dangerous situation. If the situation is not avoided, this may result in severe injuries or death.



Warning!

Type and source of the danger.

Possible consequences.

Measure that must be taken in order to avoid this danger.

Caution

This warning refers to a potentially dangerous situation. If the situation is not avoided, this may result in slight or minor injuries. This may also be used as a warning against material damage.



Caution!

Type and source of the danger.

Possible consequences.

Measure that must be taken in order to avoid this danger.

Please note

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Safety instructions

Indicates a potentially harmful situation. If this situation is not avoided, the product or an object in its environment could be damaged.



Please note:

Type and source of the danger.

Damage to the product or its environment.

Measure that must be taken in order to avoid this danger.

5.3 Information

Indicates notes that provide information or instructions that may provide a better understanding and contribute to the more effective use of the product.



Information

Tip

5.4 ESD protection

Damage from electrostatic charge.

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



ESD

Avoiding the failure of electronics





Tools, lubricants and auxiliary substances required

6 Tools, lubricants and auxiliary substances required

6.1 Standard tools

Slotted screwdriver

Plastic hammer

Torx T15, T20

Open-end wrench SW 10, SW 13, SW 14, SW 22

Torque wrench Size 13

Socket head wrench 3 mm; 4 mm; 5 mm; 6 mm

Punch 5 mm diameter; 6 mm diameter

Arbor press

Ball bearing support 19 mm; 26 mm

Sleeve 35 mm inner diameter

19 mm outer diameter
14 mm inner diameter
42 mm outer diameter
30 mm inner diameter
20 mm outer diameter
15 mm inner diameter
27 mm outer diameter
15 mm inner diameter
40 mm outer diameter
26 mm inner diameter

50 mm outer diameter 40 mm inner diameter

4x round material 20 mm in diameter

Length 60 mm

Arbor 7 mm outer diameter

Length 95 mm

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Tools, lubricants and auxiliary substances required

6.2 Special tools

Pipe SW0002

Drawing-off plate SW0010

Drawing-off socket cap SW0016

Chuck cone SW0019

19 mm diameter (64107019007)

26 mm diameter (64107026000)

Pressure piece SW0038

Assembly aid SW0045





Tools, lubricants and auxiliary substances required

6.3 Lubricants and auxiliary substances required

Grease SM0001 29 g Gearbox

Grease SM0015 n/a Tensioning arm

Thread locking compound Loctite 243 n/a Screws





Test and diagnostics options

7 Test and diagnostics options

Test data

The permitted parameters for the machine can be found in the FEIN electronic information system.





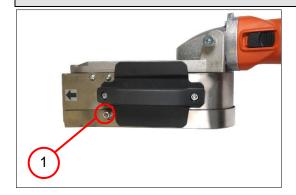
8 Disassembly

8.1 Removing the grinding arm

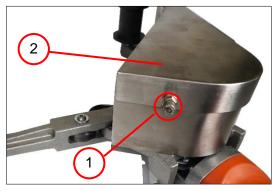
8.1.1 Removing the cover

Tools:

- Open-ended spanner, WAF 10



1. Loosen the two nuts (1).



2. Remove the cover (2).





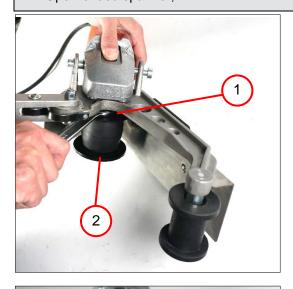
8.1.2 Removing the drive roller

Steps that must be completed:

- Removing the cover

Tools:

- Open-ended spanner, WAF 22



- 1. Lock the drive roller (1) with the pushbutton.
- 2. Loosen the drive roller.
- 3. Remove the drive roller (2).







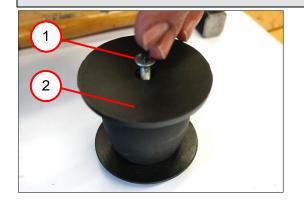
8.1.3 Disassembling the drive roller

Steps that must be completed:

- Removing the drive roller

Tools:

- Socket head wrench, 4 mm
- Arbor press
- Arbor
- Pliers
- Sleeve
 - 26 mm inner diameter
 - 40 mm outer diameter



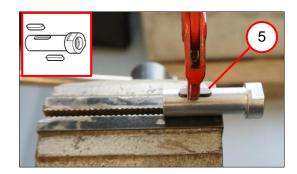
- 1. Unscrew the screw (1).
- 2. Remove the washer (2).



- 3. Press out the shaft (3).
- 4. Remove the washer (4).







5. Remove the two feather keys (5).





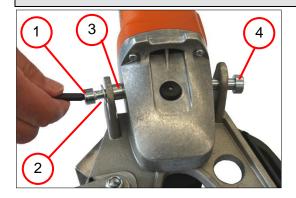
8.1.4 Removing the grinding arm

Steps that must be completed:

- Removing the drive roller

Tools:

- Socket head wrench, 6 mm
- Rubber hammer



- 1. Unscrew the screw (1).
- 2. Remove the washer (2).
- 3. Remove the bushing (3).
- 4. Unscrew the screw (4).



5. Remove the grinding arm (5).



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8.2 Disassembling the grinding arm

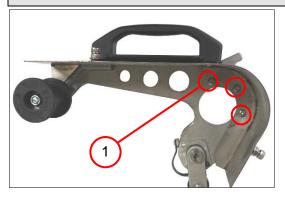
8.2.1 Removing the safety hood

Steps that must be completed:

Removing the grinding arm

Tools:

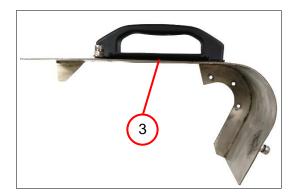
Socket head wrench, 3 mm



1. Unscrew the three screws (1).



- 2. Unscrew the two screws (2).
- 3. Remove the safety hood (3).



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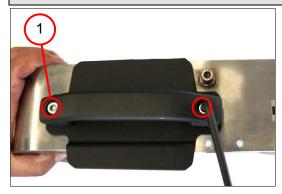




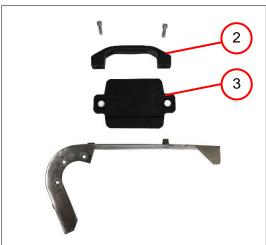
8.2.2 Removing the handle

Tools:

- Socket head wrench, 3 mm



1. Unscrew the two screws (1).



- 2. Remove the handle (2).
- 3. Remove the plate (3).



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8.2.3 Removing rollers

Tools:

- Open-ended spanner, WAF 14
- Punch, 5 mm
- Rubber hammer



- 1. Loosen the axle.
- 2. Remove the two rollers (1).



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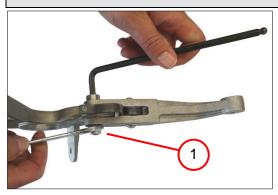
8.2.4 Removing the tensioning arm

Steps that must be completed:

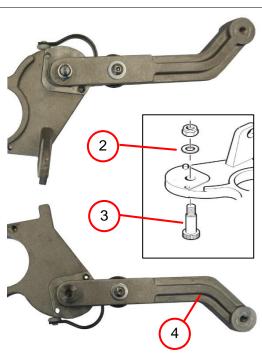
- Removing the grinding arm

Tools:

- Socket head wrench, 6 mm
- Open-ended spanner, WAF 13



1. Unscrew the nut (1).



- 2. Remove the washer (2).
- 3. Remove the screw (3).
- 4. Remove the tensioning arm (4).





8.2.5 Disassembling the tensioning arm

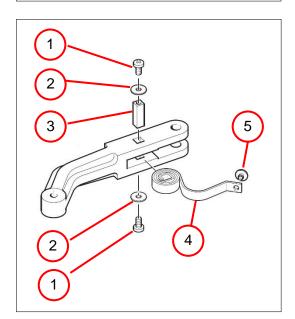
Steps that must be completed:

- Remove tensioning arm

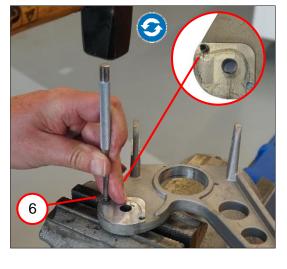
Tools:

- Socket head wrench, 3 mm
- Rubber hammer
- Punch, 5 mm





- 1. Unscrew the two screws (1).
- 2. Remove the two discs (2).
- 3. Remove the bolt (3).
- 4. Remove the spring (4).
- 5. Remove the pressure piece (5).



6. Remove the sleeve (6).

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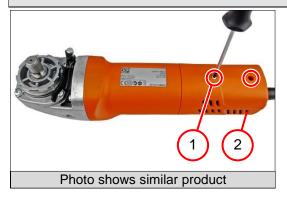


8.3 Removing the drive unit

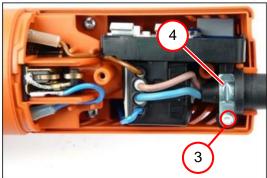
8.3.1 Quick mains cable replacement

Tools:

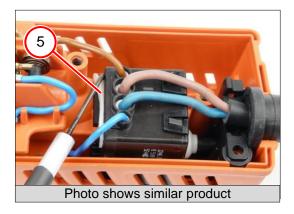
- Torx T15
- Assembly aid WAF 0045



- 1. Unscrew the two screws (1).
- 2. Remove the cover (2).



- 3. Unscrew the screw (3).
- 4. Remove the cable clamp (4).



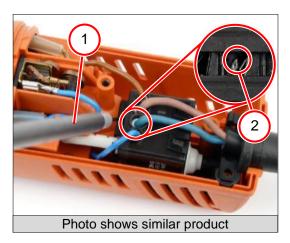
5. Remove the cover (5).



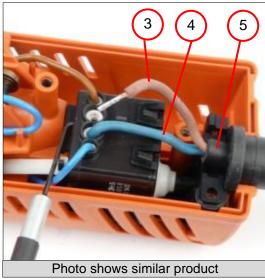
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8.3.1 Quick mains cable replacement



6. Position the hook (1) in the opening (2).



- 7. Turn the hook and remove the cable (3).
- 8. Turn the hook and remove the cable (4).
- 9. Remove the cable with the plug (5).



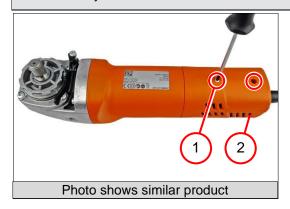


8.4 Disassembling the housing

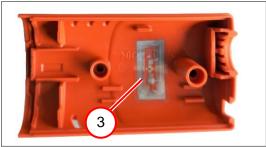
8.4.1 Removing the cover

Tools:

- Torx T15
- Assembly aid WAF 0045

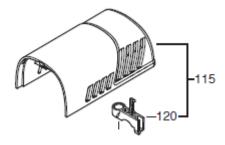


- 1. Unscrew the two screws (1).
- 2. Remove the cover (2).





When the cover is replaced, the RFID chip (3) also has to be changed and registered.







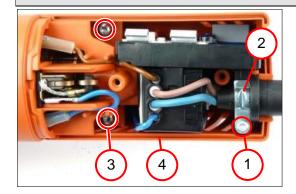
8.4.2 Dissembling the switch (230 V)

Steps that must be completed:

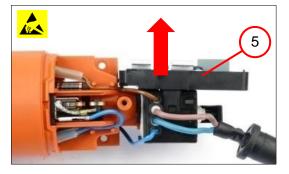
- Removing the cover

Tools:

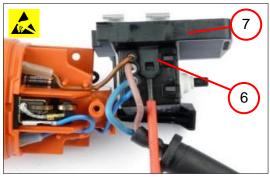
- Torx T15
- Slotted screwdriver (small)



- 1. Unscrew the screw (1).
- 2. Remove the cable clamp (2).
- 3. Unscrew the two screws (3).
- 4. Remove the cover (4).



5. Remove the switch (5).

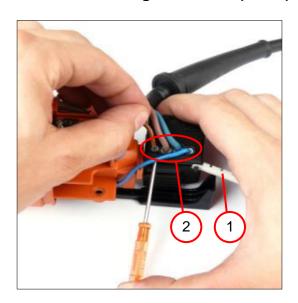


6. Lift the hook (6) on each side of the switch and pull off the electronics (7).





8.4.2 Dissembling the switch (230 V)



- 7. Remove the rubber cover (1).
- 8. Open the spring terminals by turning them.
- 9. Remove the four cables (2).

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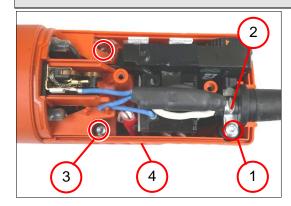
8.4.3 Dissembling the switch (120 V)

Steps that must be completed:

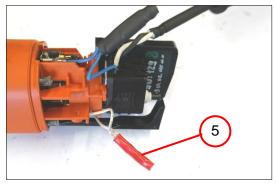
- Removing the cover

Tools:

- Torx T15
- Slotted screwdriver (small)



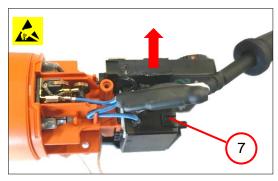
- 1. Unscrew the screw (1).
- 2. Remove the cable clamp (2).
- 3. Unscrew the two screws (3).
- 4. Remove the cover (4).



5. Remove the heat shrink tubing (5).



6. Disconnect the two cables (6).



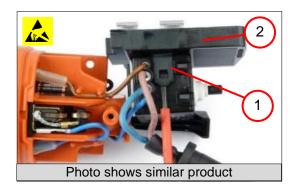
7. Remove the switch (7).

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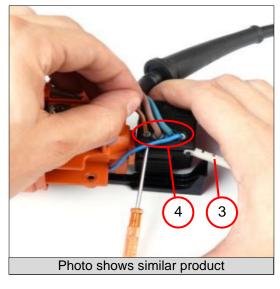




8.4.3 Dissembling the switch (120 V)



8. Lift the hook (1) on each side of the switch and remove the electronics (2).



- 9. Remove the rubber cover (3).
- 10. Open the spring terminals by turning them.
- 11. Remove the four cables (4).

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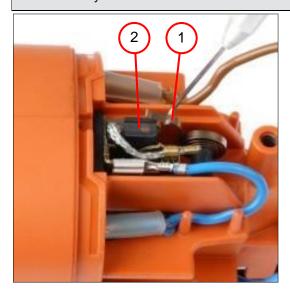
8.4.4 Removing the carbon brushes

Steps that must be completed:

- Removing the cover

Tools:

- Assembly aid WAF 0045



- 1. Lift up the spring (1).
- 2. Remove the carbon brush (2).





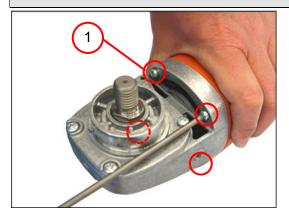
8.4.5 Removing the gearbox housing

Steps that must be completed:

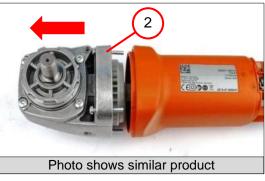
- Removing the cover
- Removing the switch
- Removing the carbon brushes

Tools:

- Torx T20
- Torx T15



1. Unscrew the four screws (1).



2. Remove the gearbox housing (2).





8.5 Removing the motor

8.5.1 Removing the stator

Steps that must be completed:

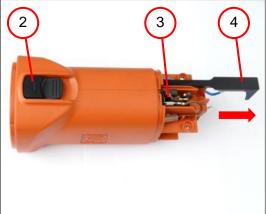
- Removing the cover
- Removing the switch
- Removing the carbon brushes
- Removing the gearbox housing

Tools:

- Torx T20
- Torx T15
- Plastic hammer



1. Remove the air guide ring (1).

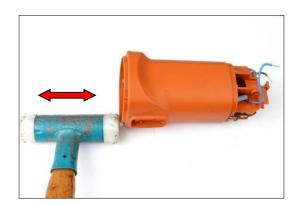


- 2. Remove the slide switch (2).
- 3. Remove the carbon brush holder (3).
- 4. Repeat step "5." on the opposite side of the machine.
- 5. Remove the control rod (4).





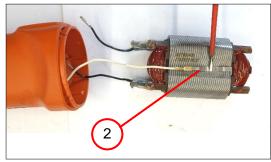
8.5.1 Removing the stator



6. Remove the stator (1).



Applies to machines with 120 V 7. Remove the contact spring (2).



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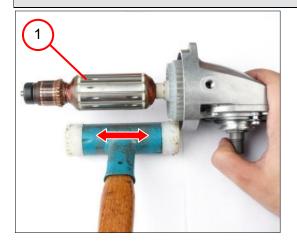
8.5.2 Removing the armature

Steps that must be completed:

- Removing the cover
- Removing the switch
- Removing the carbon brushes
- Removing the gearbox housing

Tools:

- Plastic hammer



1. Remove the armature (1).





8.5.3 Disassembling the armature

Steps that must be completed:

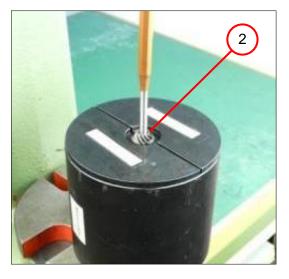
- Removing the cover
- Removing the switch
- Removing the carbon brushes
- Removing the gearbox housing
- Removing the armature

Tools:

- Punch, 6 mm diameter
- Arbor press
- Drawing-off plate WAF 0010
- Pipe WAF 0002
- Drawing-off socket cap WAF 0016
- Chuck cone WAF 0019 26 mm WAF 0019 19 mm



1. Remove the bearing bush (1).



2. Remove the bevel pinion (2).

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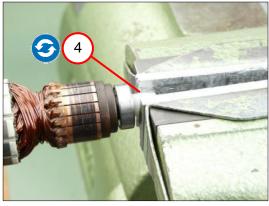




8.5.3 Disassembling the armature



- 3. Remove the deep groove ball bearing (1).
- 4. Remove the plate (2).
- 5. Remove the deep groove ball bearing (3).



6. Remove the magnet (4).





8.6 Removing the gearbox

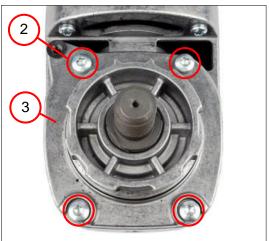
8.6.1 Removing the bearing plate

Tools:

- Torx T20
- Assembly aid WAF 0045



1. Remove the sealing ring (1).



- 2. Unscrew the four screws (2).
- 3. Remove the bearing plate (3).



4. Remove the washer(s) (4).

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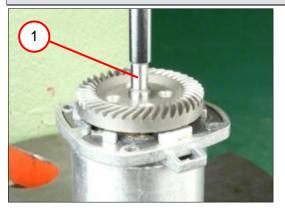
8.6.2 Disassembling the bearing plate

Steps that must be completed:

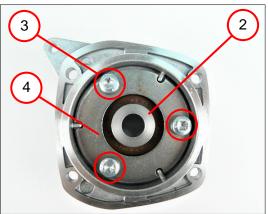
- Removing the bearing plate

Tools:

- Punch, 12 mm diameter
- Torx T15
- Arbor press
- Sleeve
 - 35 mm inner diameter
 - 14 mm inner diameter
 - 19 mm outer diameter
 - 30 mm inner diameter
 - 42 mm outer diameter



1. Press out the shaft (1).

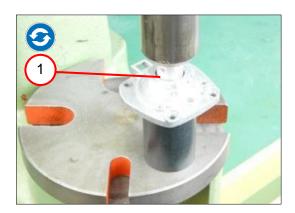


- 2. Remove the disc (2).
- 3. Unscrew the three screws (3).
- 4. Remove the plate (4).





8.6.2 Disassembling the bearing plate



5. Press out the deep grooved ball bearing (1).



8.6.3 Disassembling the gearbox housing

Steps that must be completed:

- Removing the cover
- Removing the switch
- Removing the carbon brushes
- Removing the gearbox housing
- Removing the bearing plate

Tools:

Slotted screwdriver



1. Remove the air guide ring (1).



2. Remove the pushbutton (2).

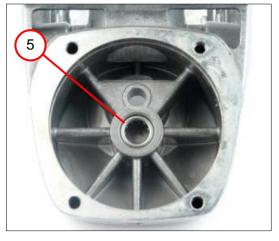




8.6.3 Disassembling the gearbox housing



- Remove the spiral spring (1).
- Remove the sealing ring (2).
- 5. Remove the bolt (3).





Information

Only remove the needle sleeve (4) if necessary.

6. Remove the needle sleeve (4).





9 Assembly

9.1 Fitting the drive unit

9.1.1 Assembling the gearbox housing



Insert the spiral spring (1) and the bolt (2) with a sealing ring
 (3).



2. Fit the pushbutton (4).





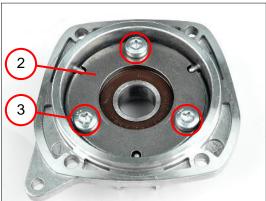
9.1.2 Assembling the bearing plate

Tools:

- Arbor press
- Sleeve
 - 15 mm inner diameter
 - 27 mm outer diameter
 - 15 mm inner diameter
 - 20 mm outer diameter
- Torx T15



1. Press in the grooved ball bearing (1).

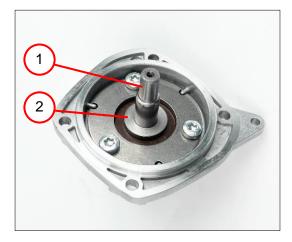


- 2. Position the plate (2).
- 3. Screw in the three screws (3) [2.4 N].

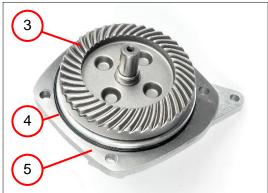




9.1.2 Assembling the bearing plate



- 4. Press in the shaft (1).
- 5. Position the washer (2).



- 6. Press in the gearwheel (3).
- 7. Coat the sealing ring (4) with oil.
- 8. Position the sealing ring (4).
 - i Information

Use a new sealing ring every time for assembly

9. Position the washer(s) (5).





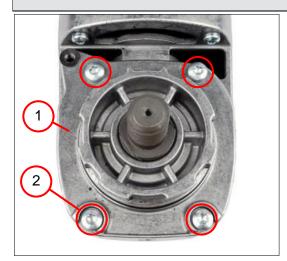
9.1.3 Positioning the bearing plate

Steps that must be completed:

- Assembling the gearbox housing
- Assembling the bearing plate

Tools:

Torx T20



- 1. Position the bearing plate (1).
- 2. Screw in the four screws (2) [2.4 Nm].



3. Position the air guide ring (3).



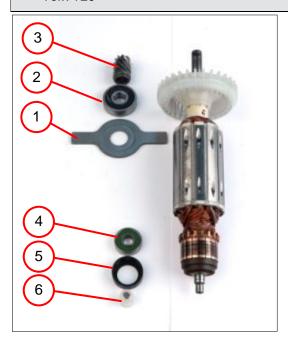


9.2 Assembling the motor

9.2.1 Assembling the armature

Tools:

Torx T20



- 1. Position the plate (1).
- 2. Press on the grooved ball bearing (2).
- 3. Press on the bevel pinion (3).
- 4. Press on the grooved ball bearing (4).



Use a new magnet for assembly each time.

6.



Note!

Damage to the magnet.

The magnet can be damaged by excessive force.

Carefully press on the magnet.

- 5. Press on the magnet (5).
- 6. Position the bearing bush (6).





9.2.2 Positioning the armature

Steps that must be completed:

- Assembling the gearbox housing
- Assembling the bearing plate



1. Press in the armature (1).



Information

The plate must lie in the recess of the air guide ring.



Note!

Damage to the gearbox and/or the motor.

The axial displacement of the armature leads to damage to the gearbox and/or the motor.

If the armature can be pulled out of the gearbox head by hand, the gearbox housing must be replaced.

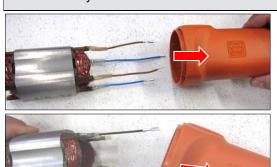




9.2.3 Fitting the stator

Tools:

- Arbor press
- Pressure piece 64122003000
- 4 x round material, 20 mm diameter; 60 mm length
- Assembly aid WAF XXX



1. Position the stator (1).



Information

Ensure that the stator (1) is in the correct position.

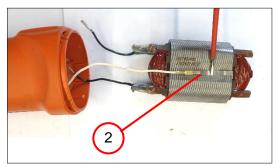
With the 230 V version, the brown cables point to the Fein logo.

With the 120V version, the black cables point to the Fein logo.



Applies to machines with 120 V:

2. Pre-bend the contact spring.



3. Position the contact spring (2).





9.2.3 Fitting the stator



4. Press in the stator (1).



5. Press down the contact spring with the assembly aid.

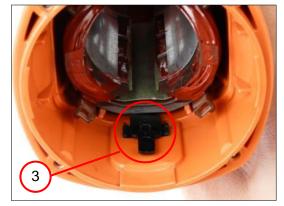




9.2.3 Fitting the stator



- 6. Position the control rod (1).
- 7. Position the slide switch (2).



8. Hook the control rod onto the slide switch (3).



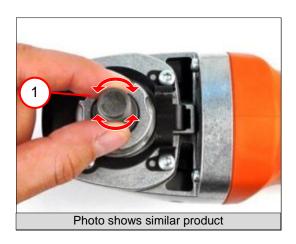
9. Position the air guide ring (4).





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9.3 Setting gearbox clearance



- 1. Perform a test run.
- 2. Check gearbox clearance by turning the shaft (1).
- 3. If there is no gearbox clearance, a second disc must be placed between the bearing plate and the gearbox housing.

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9.4 Assembling the housing

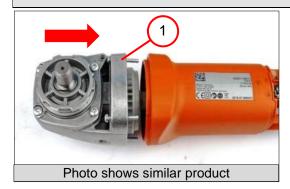
9.4.1 Positioning the gearbox housing

Steps that must be completed:

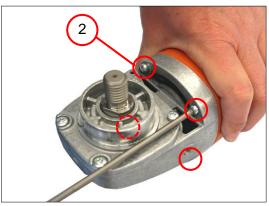
Assembling the gearbox housing

Tools:

- Torx T20



1. Position the gearbox housing (1).



2. Screw in the four screws (2) [2.7 Nm].



Screw in the screws crosswise.





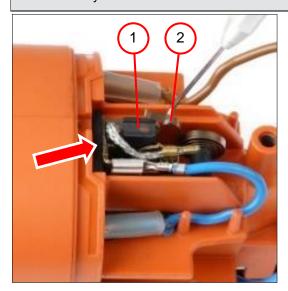
9.4.2 Positioning the carbon brushes

Steps that must be completed:

- Assembling the motor
- Positioning the gearbox housing

Tools:

- Assembly aid WAF 0045





Note!

Insert the carbon brushes correctly.

Cable breakage or pinching is possible.

Lay the cable in the recess of the carbon brush holder.

- 1. Position the carbon brush (1).
- 2. Position the spring (2).





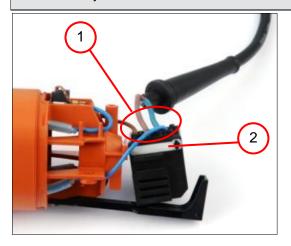
9.4.3 Assembling the switch (230 V)

Steps that must be completed:

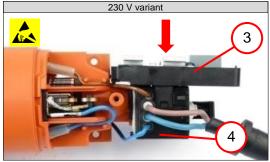
- Assembling the motor
- Positioning the gearbox housing

Tools:

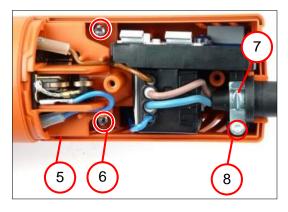
- Assembly aid SW 0045



- 1. Connect the cables (1).
- 2. Position the rubber cover (2).



- 3. Position the electronics (3) on the switch.
- 4. Position the switch (4).



- 5. Position the cover (5).
- 6. Screw in the two screws (6) [1.5 Nm].
- 7. Position the cable clamp (7).
- 8. Screw in the screw (8) [1.5 Nm].

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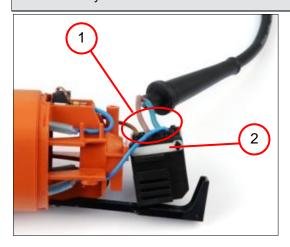
9.4.4 Assembling the switch (120 V)

Steps that must be completed:

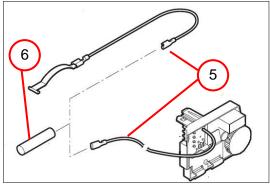
- Assembling the motor
- Positioning the gearbox housing

Tools:

Assembly aid SW 0045



- 1. Connect the cables (1).
- 2. Position the rubber cover (2).



- 3. Connect the two cables (5).
- 4. Position the heat shrink tubing (6).



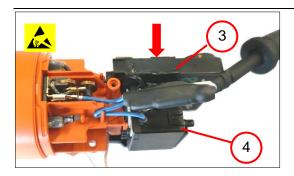


Ensure that the cables are in the correct position.





9.4.4 Assembling the switch (120 V)



- 5. Position the electronics (3) on the switch.
- 6. Position the switch (4).





i) Information

Ensure that the cables are in the correct position.

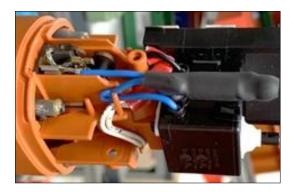




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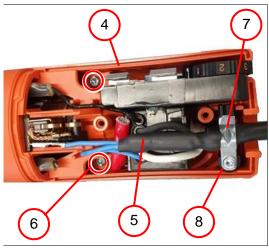
9.4.4 Assembling the switch (120 V)





i) Information

Ensure that the cables are in the correct position.



7. Position the cover (4).



Information

For machines with a choke (5), make sure that the choke is placed between the strands of the supply cable. The upper part of the cover cannot be fitted correctly if the choke is not placed correctly.

- 8. Screw in the two screws (6) [1.5 Nm].
- 9. Position the cable clamp (7).
- 10. Screw in the screw (8) [1.5 Nm].





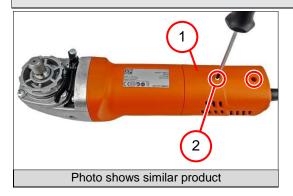
9.4.5 Fitting the cover

Steps that must be completed:

- Assembling the motor
- Positioning the gearbox housing
- Positioning the carbon brushes
- Fitting the switch

Tools:

- Torx T15



- 1. Position the cover (1).
- 2. Screw in the two screws (2) [1.5 Nm].



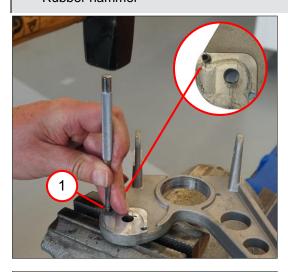


9.5 Assembling the grinding arm

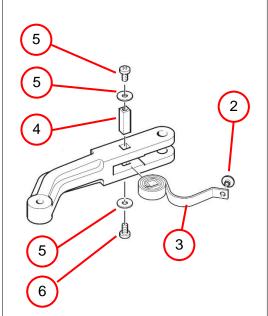
9.5.1 Fitting the tensioning arm

Tools:

- Socket head wrench, 3 mm
- Rubber hammer



1. Position the sleeve (1).



- 2. Position the pressure piece (2).
- 3. Position the spring (3).
- 4. Position the bolt (4).
- 5. Position the two discs (5).
- 6. Screw in the two screws (6).

(i) Information

Secure the screws with Loctite 243.





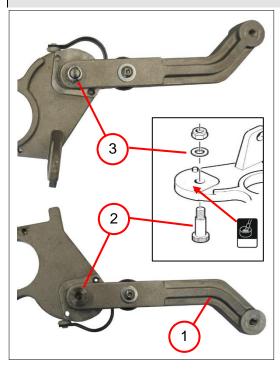
9.5.2 Positioning the tensioning arm

Steps that must be completed:

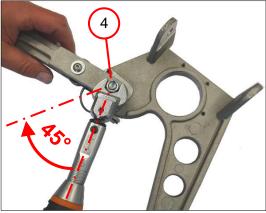
- Assembling the grinding arm

Tools:

- Socket head wrench, 3 mm
- Torque wrench WAF 13



- 1. Apply grease to the sliding surface.
- 2. Position the tensioning arm (1).
- 3. Position the screw (2).
- 4. Position the washer (3).



5. Screw in the nut (4) [1.5 Nm].



Information

Screw in the nut [1.5 Nm], then loosen again with a 45° rotation. The tensioning arm must be freely movable.

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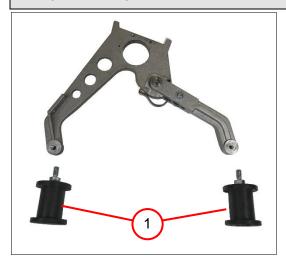




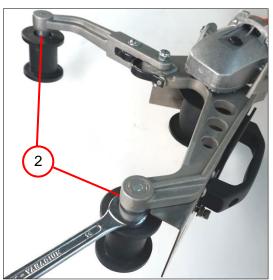
9.5.3 Positioning the rollers

Tools:

- Open-ended spanner, WAF 14



1. Position the two rollers (1)



2. Screw in the axle (2) [7.0 Nm].

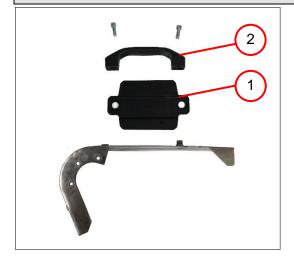




9.5.4 Positioning the handle

Tools:

Socket head wrench, 3 mm

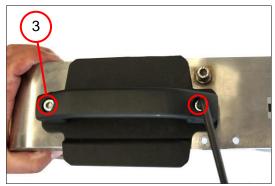




Information

Note the position of the plates.

- 1. Position the plate (1).
- 2. Position the handle (2).





Information

Secure the screws with Loctite 243.

3. Screw in the two screws (3) [2.7 Nm].



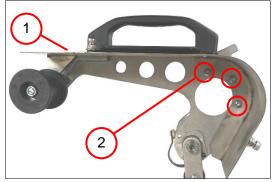


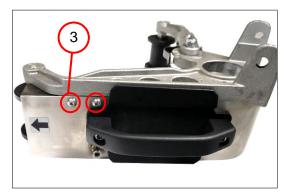
9.5.5 Positioning the safety hood

Tools:

- Socket head wrench, 3 mm







- 1. Position the safety hood (1).
- 2. Screw in the three screws (2) [2.7 Nm].
- i Information

Secure the screws with Loctite 243.

3. Screw in the two screws (3).





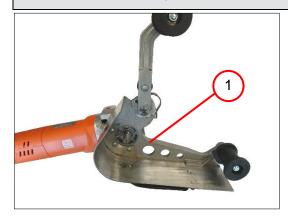
9.6 Positioning the grinding arm

Steps that must be completed:

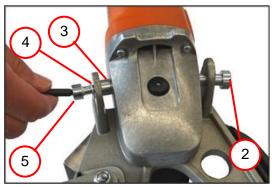
- Assembling the grinding arm

Tools:

- Socket head wrench, 3 mm



1. Position the grinding arm (1).



- 2. Fit the screw (2).
- 3. Position the bushing (3).
- 4. Position the washer (4).
- 5. Fit the screw (**5**).
- 6. Screw in the screw (2) [8.0 Nm].
- 7. Screw in the screw (5) [8.0 Nm].

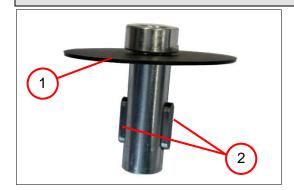




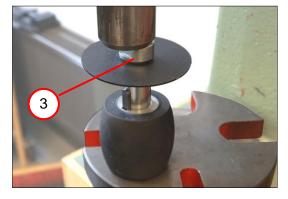
9.6.1 Assembling the drive roller

Tools:

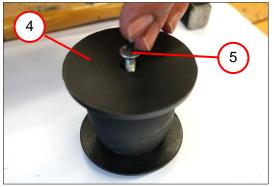
- Socket head wrench, 4 mm
- Arbor press
- Arbor
- Pliers
- Sleeve



- 1. Position the washer (1).
- 2. Position the two feather keys (2).



3. Press in the shaft (3).



- 4. Position the washer (4).
- 5. Screw in the screw (5).



Secure the screw with Loctite 243.





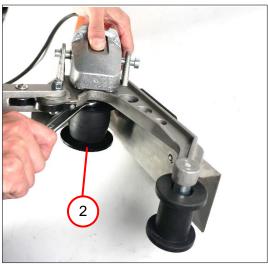
9.6.2 Positioning the drive roller

Tools:

- Open-ended spanner, WAF 22



1. Position the drive roller.



2. Screw in the drive roller.

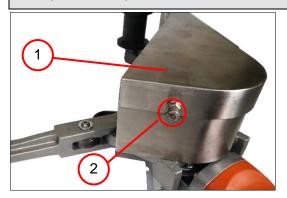




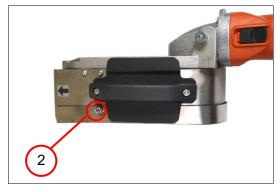
9.6.3 Positioning the cover

Tools:

- Open-ended spanner, WAF 10



- 1. Position the cover (1).
- 2. Screw in the two nuts (2).



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Inspection following repairs

10 Inspection following repairs

A visual and functional check as well as a professional electrical safety test must always be performed after carrying out repair and maintenance work. The regulations and legal requirements applicable in the respective country apply.

Minimum tests recommended for this type of machine:

Always: Visual inspection

Speed check Insert tool

Testing

Mains-operated machines: Electrical safety test

If restart protection is available: Check restart protection

Brake function available: Brake function check

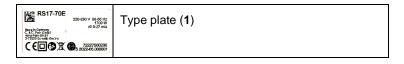


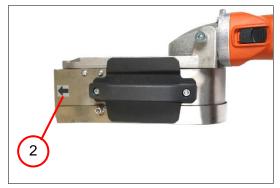


Labelling requirement

11 Labelling requirement









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