

# Repair instructions



# Applies to:

KBC 36 MAGFORCE, JMC MAGFORCE 90



## **Models described**

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# **Core-drilling metal**

### 34130594060 Printed in Germany



## **Models described**

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### **Models described**

## 1 Models described

These repair instructions describe how to repair the following models:

Model	Material number		
KBC 36 MAGFORCE	7 273 23		
JMC MAGFORCE 90	7 273 23		



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### **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

Torx T15
Torx T20

Circlip pliers

Slotted screwdriver

Socket head wrench 3 mm, 4 mm, 5 mm, 8 mm

Internal puller

Ratchet screwdriver

Socket wrench ½ inch square

Sleeve 15 mm inner diameter, 29 mm outer diameter
Sleeve 16 mm inner diameter, 22 mm outer diameter
Sleeve 22.3 mm inner diameter, 33.7 mm outer diameter
Sleeve 38 mm inner diameter, 42 mm outer diameter

Hot air gun

## 6.2 Special tools

Assembly aid SW0045
Assembly aid\* (\*to remove the hose socket)

SW0068

## 6.3 Lubricants and auxiliary substances required

Grease	SM0020	45 g	Gearbox, top
Grease	SM0020	12 g	Gearbox, bottom
Grease	SM0016	n/a	Feed shaft, gearing, drilling shaft, guide shaft
Thread locking compound	Loctite 270	n/a	Screws, set screws

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## 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.



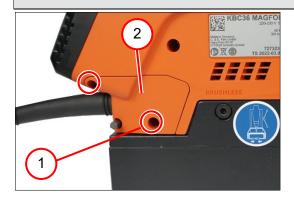


## 8 Disassembly

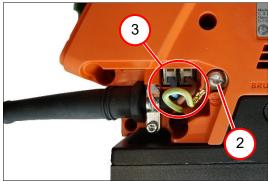
## 8.1 Removing the mains cable

### Tools:

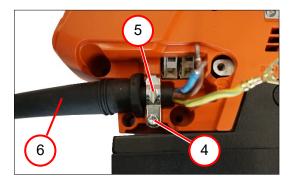
- Torx T15
- Torx T20



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



- 3. Unscrew the screw (2).
- 4. Remove the cables (3).



- 5. Unscrew the screw (4).
- 6. Remove the cable clamp (5).
- 7. Remove the mains cable (6).

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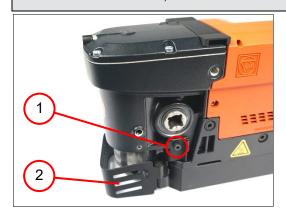


## 8.2 Disassembling the housing

### 8.2.1 Removing the protective grille

### Tools:

Socket head wrench, 3 mm



- 1. Unscrew the screw (1).
- 2. Remove the protective grille (2).





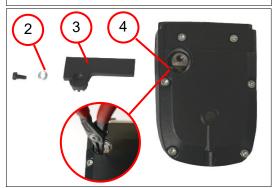
### 8.2.2 Removing the handle

### Tools:

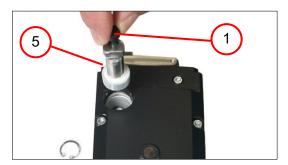
- Socket head wrench, 5 mm
- Circlip pliers



1. Unscrew the screw (1).



- 2. Remove the washer (2).
- 3. Remove the handle (3).
- 4. Remove the circlip (4).



5. Remove the guide shaft (5) using the screw (1).





## 8.2.3 Removing the control panel

### Tools:

- Torx T 20



1. Unscrew the two screws (1).



- 2. Remove the cover (2).
- 3. Remove switch insert (3).



4. Remove the electronics (4).





### 8.2.4 Removing the housing halves

### Steps that must be completed:

- Removing the protective grille
- Removing the handle
- Removing the control panel
- Removing the mains cable

### Tools:

- Torx T 20
- Slotted screwdriver



- 1. Unscrew the four screws (1).
- 2. Remove the housing half (2).

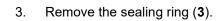




### Information

When replacing the housing half, the new RFID chip must be registered.







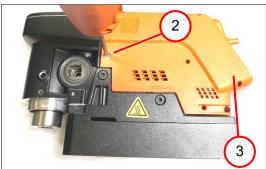
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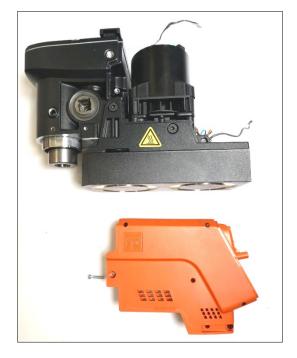




## 8.2.4 Removing the housing halves







# (i) Information

Remove the electronics before removing the housing half.

- 1. Remove the cable (1) from the guide.
- 2. Unscrew the screw (2).
- 3. Remove the housing half (3).





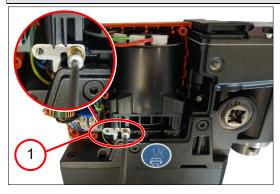
## 8.3 Removing the electronics

### Steps that must be completed:

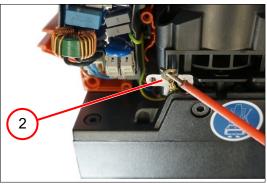
- Removing the housing half

### Tools:

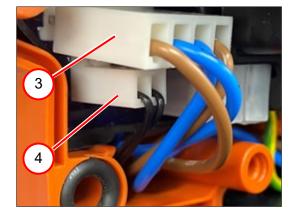
- Torx T20
- Assembly aid SW0045



1. Unscrew the screw (1).



2. Remove the cable (2).



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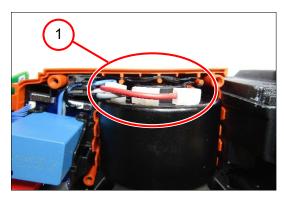
- 3. Pull off the plug (3).
- 4. Pull off the plug (4).



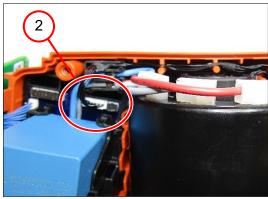
# Yein

## **Disassembly**

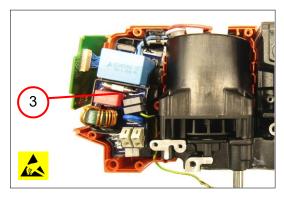
### 8.3 Removing the electronics



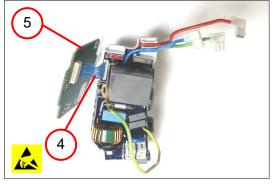
5. Pull off the plug (1).



6. Pull off the plug (2).



7. Remove the electronics (3) from the housing.



- 8. Remove the cable (4).
- 9. Remove the circuit board (5).

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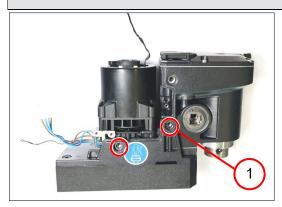
## 8.4 Removing the magnetic base

### Steps that must be completed:

- Removing the electronics

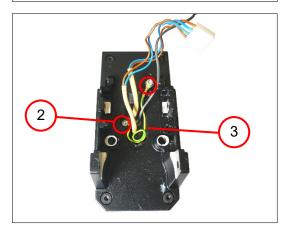
### Tool(s):

- Torx T20
- Socket head wrench, 4 mm



- 1. Unscrew the two screws (1).
- 2. Repeat step 1 on the opposite side.





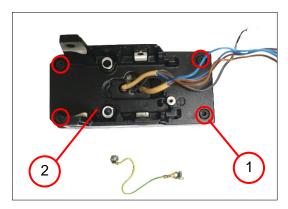
- 3. Unscrew the two screws (2).
- 4. Remove the cable (3).

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## 8.4 Removing the magnetic base



- 5. Unscrew the four screws (1).
- 6. Remove the frame (2).





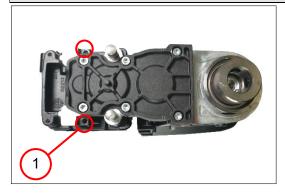
## 8.5 Removing the motor

### Steps that must be completed:

- Removing the magnetic base

### Tools:

- Socket head wrench, 3 mm
- Torx T20



1. Unscrew the two screws (1).



2. Unscrew the four screws (2).



3. Remove the motor (3).





## 8.6 Removing the gearbox

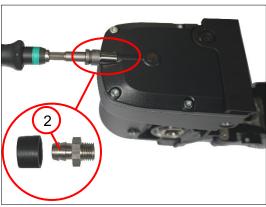
### 8.6.1 Removing the hose socket

### Tools:

- Slotted screwdriver
- Ratchet screwdriver
- SW0068



1. Remove the sleeve (1).



2. Remove the hose socket (2).





### 8.6.2 Disassembling the upper gearbox cover

### Steps that must be completed:

- Removing the housing halves

### Tools:

- Torx T20
- Internal puller
- Sleeve, 15 mm inner diameter, 29 mm outer diameter
- Punch 6 mm diameter



- 1. Unscrew the six screws (1).
- 2. Remove the gearbox cover (2).



3. Remove the seal (3).



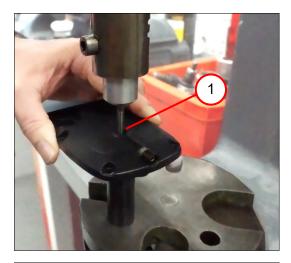
- 4. Remove the two grooved ball bearings (4).
- 5. Remove the grooved ball bearing (5).

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## 8.6.2 Disassembling the upper gearbox cover



6. Press out the connecting piece (1).



7. Remove the three straight pins (2).





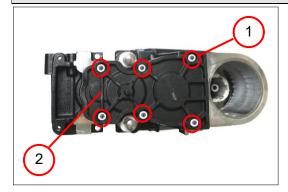
### 8.6.3 Removing the lower gearbox cover

### Steps that must be completed:

Removing the motor

### Tools:

- Torx T20



- 1. Unscrew the six screws (1).
- 2. Remove the gearbox cover (2).



- 3. Remove the seal (3).
- 4. Remove the two straight pins (4).





### 8.6.4 Removing the gearbox

### Steps that must be completed:

- Removing the mains cable
- Disassembling the housing
- Removing the electronics
- Removing the magnetic base
- Removing the motor
- Removing the drilling shaft
- Removing the feed shaft

### Tools:

- See steps that must be completed.





### Information

The gearbox is replaced as a pre-assembled module.

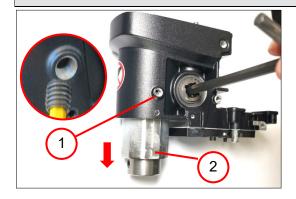




## 8.7 Disassembling the drilling shaft

### Tools:

- Socket head wrench, 8 mm; 4 mm; 5 mm
- Rubber hammer
- SW0045



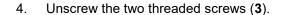


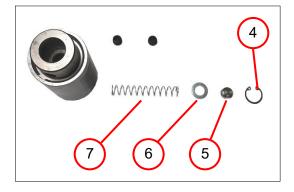
### Information

Warm up the screws using a hot air gun because they have been glued in with a thread locking compound.

- 1. Unscrew the threaded screw (1).
- 2. Fully extend the drilling shaft.
- 3. Remove the drilling shaft (2).







- 5. Remove the circlip (4).
- 6. Remove the piston (5).
- 7. Remove the washer (6).
- 8. Remove the spring (7).

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## 8.7 Disassembling the drilling shaft



9. Remove the seal (1).





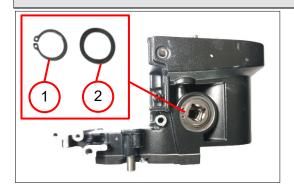
## 8.8 Disassembling the feed shaft

### Steps that must be completed:

Removing the drilling shaft

### Tools:

- Circlip pliers
- Socket wrench ½ inch square
- Rubber hammer



- 1. Remove the circlip (1).
- 2. Remove the washer (2).



Remove the feed shaft (3).



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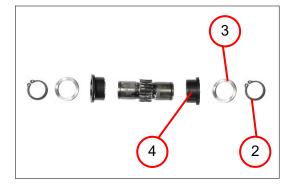
## 8.8 Disassembling the feed shaft



4. Remove the bearing bush (1).



- 5. Remove the circlip (2).
- 6. Remove the washer (3).
- 7. Remove the bearing bush (4).



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## 9 Assembly

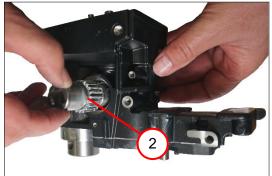
## 9.1 Assembling the feed shaft

### Tools:

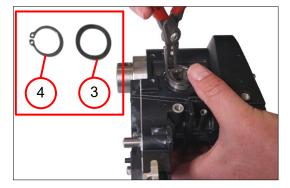
- Arbor press
- Circlip pliers
- Sleeve, 22.3 mm inner diameter, 33.7 mm outer diameter



1. Press in the bushing (1).



- 2. Grease the feed shaft.
- 3. Position the feed shaft (2).



- 4. Position the washer (3).
- 5. Press in the circlip (4).
- 6. Repeat steps 1, 4 and 5 on the opposite side.



Press in the circlip until you hear it click into place.



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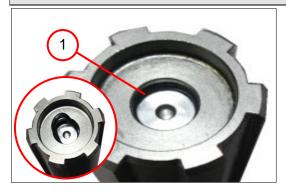
## 9.2 Fitting the drill shaft

### Steps that must be completed:

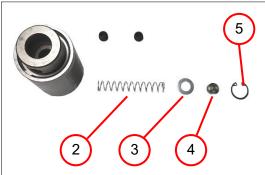
- Assembling the feed shaft

### Tools:

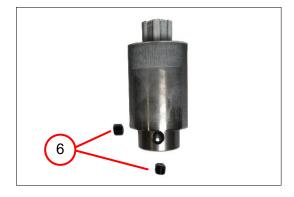
- SW0045
- Socket head wrench, 4 mm
- Circlip pliers



1. Position the seal (1).



- 2. Position the spring (2).
- 3. Position the washer (3).
- 4. Position the piston (4).
- 5. Position the circlip (5).

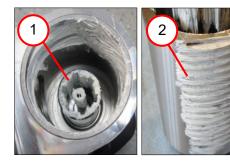


6. Screw in the threaded screws (6).





### 9.2 Fitting the drill shaft



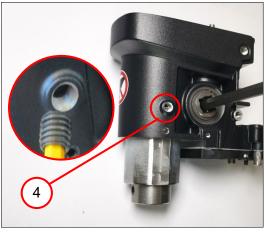
7. Coat the guide bush with tube (1) and the gearing (2) with grease.



# (i) Information

Note the position of the drilling shaft.

8. Position the drilling shaft (3).



# i Information

Apply Loctite 270 to the set screw (4).

Tighten the set screw to [2.0 Nm] and loosen again by 15°.

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## 9.2 Fitting the drill shaft





Apply Loctite 270 to the set screw.

9. Screw the set screw (1) in flush with the surface.





## 9.3 Fitting the gearbox

### 9.3.1 Positioning the gearbox





The gearbox is replaced as a pre-assembled module.





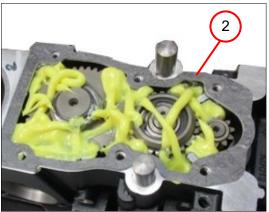
### 9.3.2 Positioning the lower gearbox cover

### Tools:

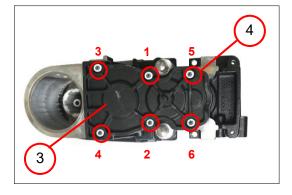
- Torx T20



1. Position the two straight pins (1).



- 2. Fill the gearbox with grease.
- 3. Position the seal (2).



- 4. Position the gearbox cover (3).
- 5. Screw in the six screws (4) [2.4 Nm].



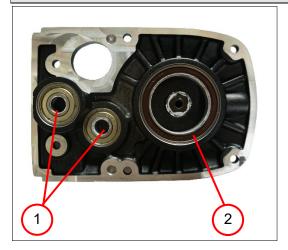
Observe the screwdriving sequence.



### 9.3.3 Assembling the upper gearbox cover

#### Tools:

- Arbor press
- Support, outer diameter 29
- Sleeve, 16 mm inner diameter, 22 mm outer diameter
- Sleeve, 38 mm inner diameter, 42 mm outer diameter
- Sleeve, 15 mm inner diameter, 29 mm outer diameter



- 1. Press in the two grooved ball bearings (1).
- 2. Press in the grooved ball bearing (2).



### Information

When pressing in the grooved ball bearings, the gearbox cover must be aligned parallel to the support.





3. Press in the connecting piece (3).



### Information

When pressing in the grooved ball bearings, the gearbox cover must be aligned parallel to the support.

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### 9.3.3 Assembling the upper gearbox cover



4. Position the three straight pins (1).



- 5. Grease the guide shaft.
- 6. Position the guide shaft.
- 7. Position the circlip.



### Information

Note the position of the circlip.



8. Fill the gearbox with grease.



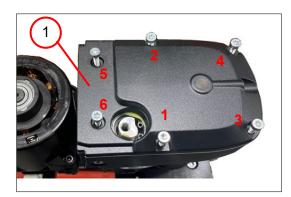
9. Position the seal (2).

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## 9.3.3 Assembling the upper gearbox cover



- 10. Position the gearbox cover (1).
- 11. Screw in the six screws [3.4 Nm].



Observe the screwdriving sequence.





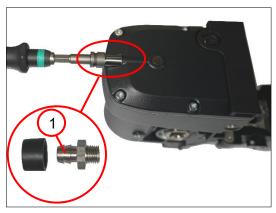
## 9.3.4 Positioning the hose socket

### Tools:

- Ratchet screwdriver
- SW0068



1. Attach the hose socket (1) and screw it in.





2. Position the sleeve (2).





## 9.4 Positioning the motor

#### Tools:

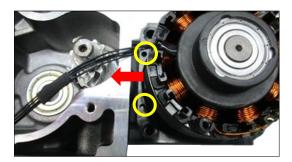
- Torx T20



1. Grease the sealing ring (1) on the bearing side.

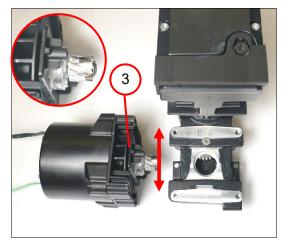


2. Position the motor (2).



# (i) Information

The bore holes point towards the gearbox housing



## i Information

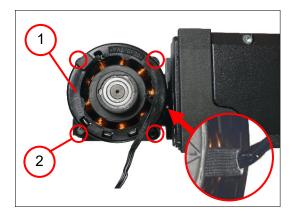
The bearing plate (3) must be aligned longitudinally to the gearbox housing.

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### 9.4 Positioning the motor



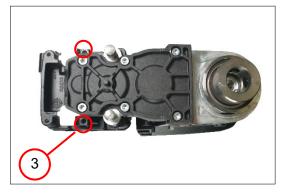
- 3. Position the motor housing (1).
- 4. Screw in the four screws (2) [2.4 Nm].
- i Information

Do not pinch the motor cable.



(i) Information

Align the motor housing with the motor slot.



5. Screw in the two screws (3) [2.4 Nm].

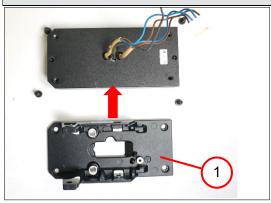




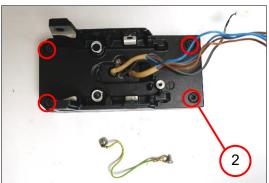
## 9.5 Positioning the magnetic base

#### Tools:

- Torx T20
- Socket head wrench, 4 mm

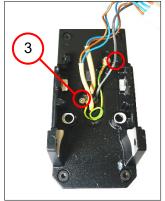


1. Position the frame (1)

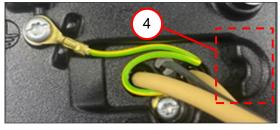


2. Screw in the four screws (2) [8.0 Nm].





- 3. Position the cable.
- 4. Screw in the two screws (3) [1.5 Nm].





This area (4) has to remain clear.

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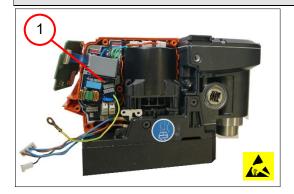
## 9.6 Positioning the electronics

### Steps that must be completed:

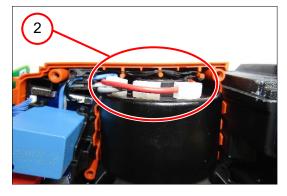
- Positioning one housing half

#### Tools:

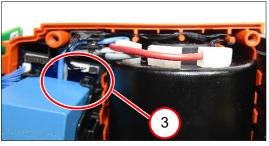
- Torx T20
- Assembly aid SW0045



- 1. Position one housing half.
- 2. Position the electronics (1).



3. Connect the cables (2) as shown in the connection diagram.





4. Connect the cables (3) as shown in the connection diagram.



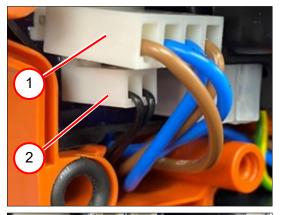
Lay the cable (4) in the guides.



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### 9.6 Positioning the electronics



- 5. Connect the cables (1) as shown in the connection diagram.
- 6. Connect the cable (2) as shown in the connection diagram.
- i Information

Lay the cables in the guides.

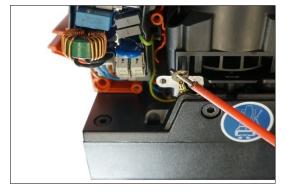


7. Position the cable (3).



### (i) Information

Lay the cables in the guides.



8. Screw in the screw (4).





## 9.7 Assembling the housing

### 9.7.1 Positioning the housing halves

#### Tools:

- Torx T20





- 1. Position the housing half (1).
- 2. Screw in the screw (2) [2.4 Nm].



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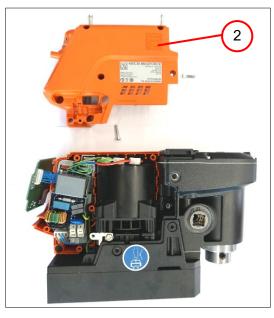
### 9.7.1 Positioning the housing halves

### Tools:

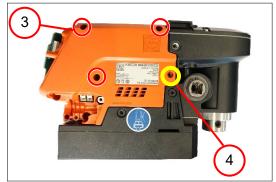
- Torx T20
- Assembly aid SW0045



3. Position the sealing ring (1).



4. Position the housing half (2).



- 5. Screw in the three screws (3) [2.4 N].
- 6. Screw in the screw (4) [2.4 Nm].



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## 9.7.2 Positioning the control panel

### Tools:

- Torx T20



1. Position the electronics (1).



- 2. Position the switch insert (2).
- 3. Position the cover (3).



4. Screw in the two screws (4) [2.4 Nm].

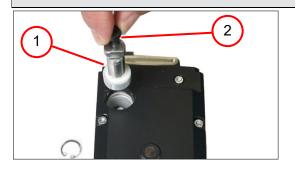




### 9.7.3 Positioning the handle

### Tools:

- Torx T 20



- 1. Grease the guide shaft.
- 2. Position the guide shaft (1) using the screw (2).

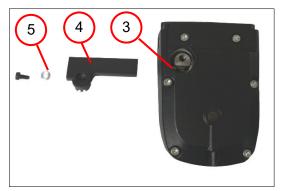


3. Position the circlip (3).

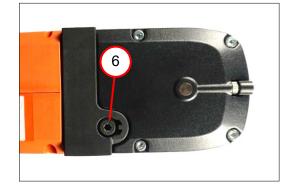


### Information

Note the position of the circlip.



- 4. Position the handle (4).
- 5. Position the washer (5).



6. Screw in the screw (6) [8.0 Nm].

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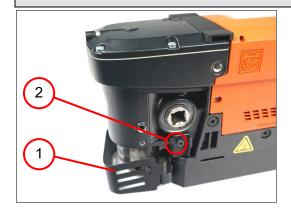




## 9.7.4 Assembling the protective grille

#### Tools:

- Socket head wrench, 3 mm



- 1. Position the protective grille (1).
- 2. Screw in the screw (2).

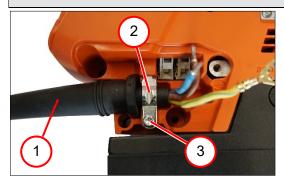




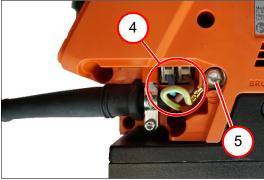
## 9.8 Positioning the mains cables

#### Tools:

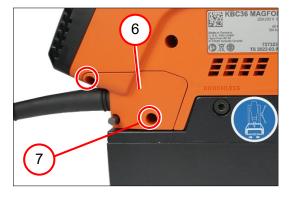
- Torx T15
- Torx T20
- Slotted screwdriver



- 1. Position the mains cable (1).
- 2. Position the cable clamping bridge (2).
- 3. Screw in the screw (3) [1.5 Nm].



- 4. Connect the cables (4) as shown in the connection diagram.
- 5. Screw in the screw (5) [2.0 Nm].



- 6. Position the cover (6).
- 7. Screw in the two screws (7) [2.6 Nm].





### 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

Check coolant function

Perform drilling test in metal

Mains operated machines: Electrical safety test

Machine with magnet: Check magnetic holding force

If restart lock present: Check restart lock





## Labelling requirement

# 11 Labelling requirement



### **KBC 36, JMC MAGFORCE 90**

KBC36 MAGFORCE 20-20 V So So Le 20-20 V So So So Le 20-20 V So So So Le 20-20 V So So So Le 20-20 V So	Type plate (1)
	Hot surface; safety belt (2)

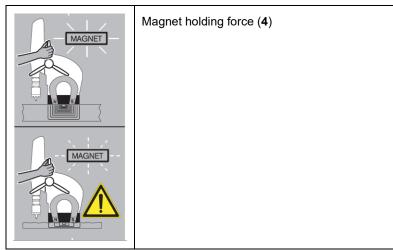


**KBC 36, JMC MAGFORCE 90** 

	Rotating parts (3)
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**KBC 36, JMC MAGFORCE 90** 



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## Labelling requirement

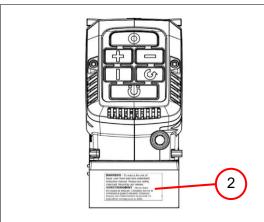
## 11 Labelling requirement



### **KBC 36, JMC MAGFORCE 90**



RFID chip (1)



#### **JMC MAGFORCE 90**

WARNING - To reduce the risk of injury, user must read and understand the result of the result of the result of chain belt lifecting can release. A VERTISEMENT - Air on sender less ricques de bleasum. Traffication de

Information sign (2)

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