

FEIN - Repair - Tools

BF 10 - 280 ET



The motor of the BF 10 - 280 ET is based on the motor of the WSG 10 - 115 T. If there are any questions regarding repair instruction, service or maintenance intervals on the motor, please use the repair instruction for WSG 10 - 115 T. For the belt grinder BF 10 - 280 ET the same safety instructions and test instructions are valid as for the WSG 10 - 115 T.

Spare part list and drawing please see at:

[www.fein.com/FEIN Service/Spare parts](http://www.fein.com/FEIN_Service/Spare_parts)





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1. Technical data

Type

BF 10 - 280 ET

Reference number	7 228 04
Power input	800 W
Output	550 W
Power supply type	1 ~
Belt speed	35 - 105 ft / s
Grinding - belt length	20 1/2 in / 520 mm
Grinding - belt width	1/12 in - 3/4 in
	3 - 20 mm
Weight according to EPTA - Procedure 01/2003	4.6 lbs (2.1 kg)
Class of protection	II

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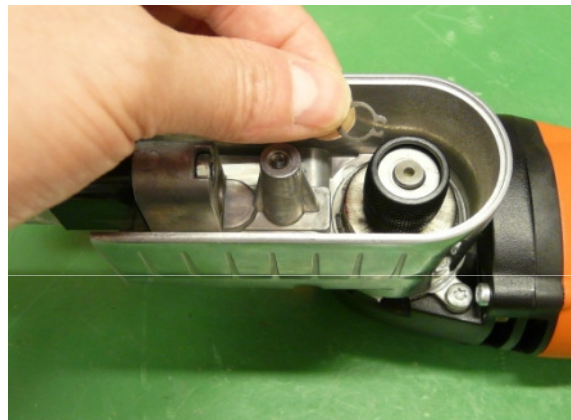
2. Dismounting sanding arm



1. Screw down the adjusting screw
2. Take off the sanding arm



3. Disassembling grinding attachment

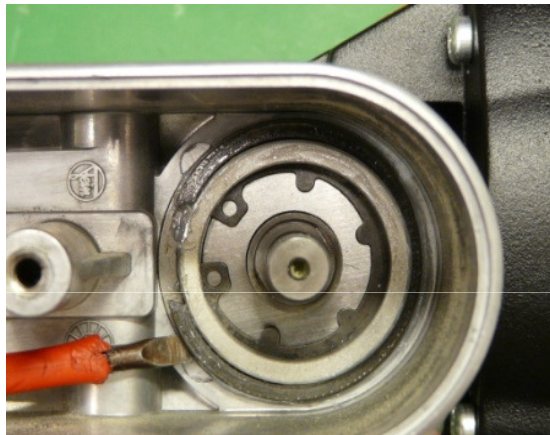


1. Open the fastening screw of the grinding attachment
2. Take off the cover of the attachment
3. Take off the circlip ring
4. Take down the driving wheel and the washer behind

Tools:
- outer circlip plier



3. Disassembling grinding attachment

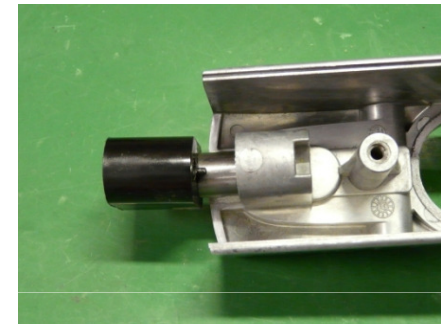
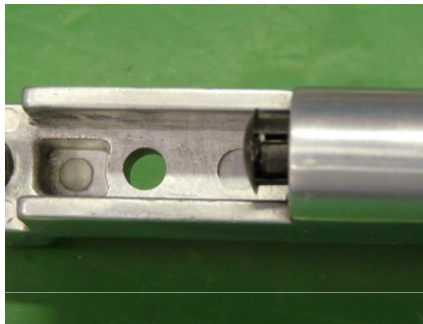


1. Take off the circlip and the washer
2. Take down the whole grinding attachment

Tools:
- outer circlip plier



3. Disassembling grinding attachment



1. Pull out the plug on the tensioning arm
2. Open the guide post and take down the spring loaded tensioning arm
3. Take down the arm and the dust cover

Tools:
- allen key 4mm



3. Disassembling grinding attachment

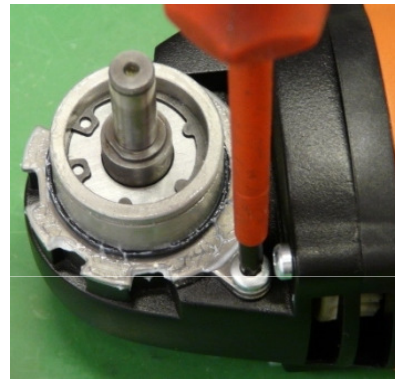


1. Drive out the pin on the main housing of the attachment
2. Take off the locking button and the spring
3. Open the screw and pull out the support rod of the spring for the tensioning arm

Tools:
- allen key 2.5mm
- drift punch



4. Diassembling gear box



1. Open the screw from the setting sheet for the angle adjustment of the attachment and take it off
2. Take off the circlip ring for fixing the spindle

Tools:
- screw driver torx 20
- inner circlip plier

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4. Disassembling gear box



1. Take out the washer and the spring washer
2. Clamp in the spindle in a vice with aluminium brackets
3. Drive the spindle out of the gear housing with slight hits of a plastic hammer –
If the spindle can't be driven out in this way, the ball bearing inside the gear box comes off with the spindle. In this case the machine has to be disassembled completely and the armature has to be pulled out of the gearbox. After that the spindle can be taken off with the ball bearing.
4. Press down the pinion and the ball bearing

Tools:
- plastic hammer
- vice
- mandrel press



5. Assembling gear box



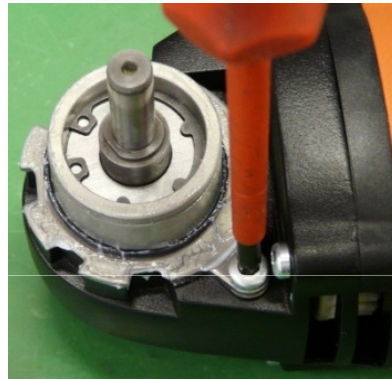
1. Press on the ball bearing and the pinion
2. Drive the spindle into the gear housing
3. Put the spring washer and the faceplate in
4. Put the circlip in for fixing the spindle in the gear housing

Tools:
- inner circlip plier
- mandrel press

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5. Assembling gear box

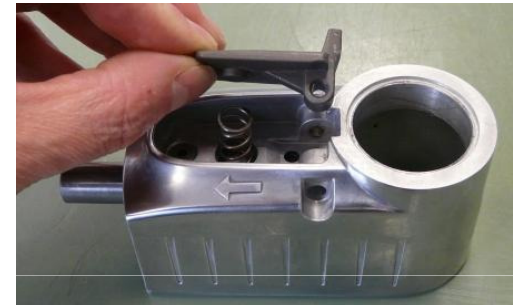


1. Put the setting sheet and the o-ring on the gear housing and fix it with the screw

Tools:
- screw driver torx 20



6. Assembling grinding attachment



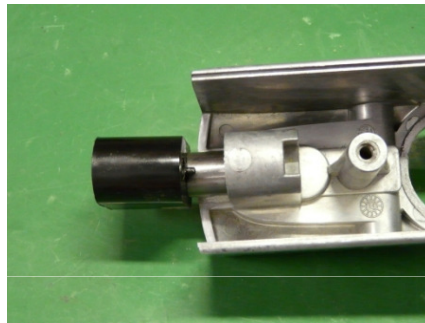
1. Put the guide sleeve for the spring in the housing and fix it with the screw (screw locking – Loctite 242 blue)
2. Put the spring and the locking button in the right position
3. Drive the pin in the housing for fixing the locking button

Tools:

- allen key 2.5mm
- drift punch
- steel hammer



6. Assembling grinding attachment

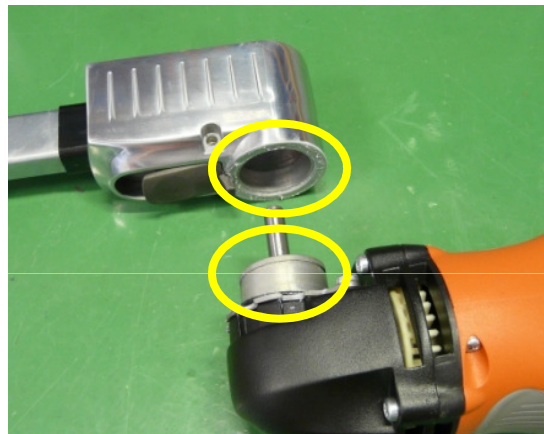


1. Put on the dust cover for the spring loaded tensioning arm
2. Put on the tensioning arm and fix it with the guide post – the guide post has to be locked with Loctite 242 (blue)
3. Put on the plug

Tools:
- allen key 4mm



6. Assembling grinding attachment



1. Put the preassembled grinding attachment on the gear box –
The sliding surface on the gearbox must be lubricated with Molykote paste before mounting the grinding attachment. (yellow circles)
2. Put on the distance washer and fix it with a circlip ring

Tools:
- outer circlip plier

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7. Mounting drive wheel



1. Put on the end plate, the drive wheel, the spring washer and the end washer
2. Fix it with a circlip ring.

Attention – downside the drive wheel , inside the end plate and on the spindle there is a small spanner flat for driving the wheel. The end plate is working like a clutch.

Tools:
- outer circlip plier



8. Mounting sanding arm



1. Put on the sanding arm and fix it with the adjusting screw



9. Tools

Inner circlip plier small	Retail
Inner circlip plier medium	Retail
Outer circlip plier medium	Retail
Slotted screw driver	Retail
Torx 20 screw driver	Retail
Plastic hammer	Retail
Steel hammer	Retail
Drift punch	Retail
Vice	Retail
Allen key 4 mm	Retail

No special tools are necessary for the repair of the grinding attachment !