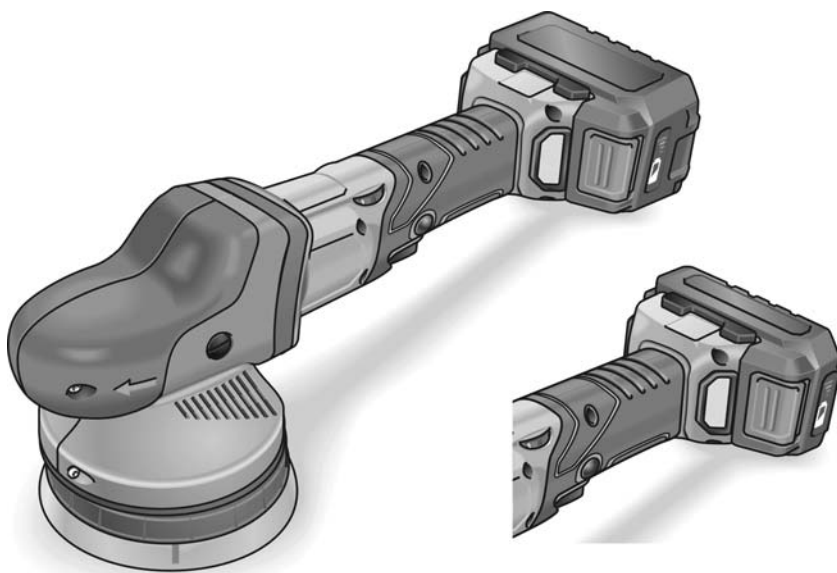


## ELEKTROWERKZEUGE

XFE 15 150 18.0-EC



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## Symbols used in this manual



### **WARNING!**

Denotes impending danger. Non-observance of this warning may result in death or extremely severe injuries.



### **CAUTION!**

Denotes a possibly dangerous situation. Non-observance of this warning may result in slight injury or damage to property.



### **NOTE**

Denotes application tips and important information.

## Symbols on the power tool



Before switching on the power tool, read the operating manual!



Wear goggles!



Disposal information for the old machine (see page 24)!

## For your safety



### **WARNING!**

*Before using the polisher, please read and follow:*

- *these operating instructions,*
- *the “General safety instructions” on the handling of power tools in the enclosed booklet (leaflet-no.: 315.915),*
- *the currently valid site rules and the regulations for the prevention of accidents.*

*This polisher is state-of-the-art and has been constructed in accordance with the acknowledged safety regulations.*

*Nevertheless, when in use, the power tool may be a danger to life and limb of the user or a third party, or the power tool or other property may be damaged. The polisher may be used only*

- *as intended,*
- *in perfect working order.*

*Faults which impair safety must be repaired immediately.*

### **Intended use**

This hand-operated orbital polisher is designed

- is designed for industrial applications,
- for all types of polishing work, e.g. paint-work on vehicles, furniture and metal surfaces, etc. with polishing sponge,
- for use with polishing tools which are permitted to run at a speed of at least 500 r.p.m..

### **Safety instructions for polishing**



### **WARNING!**

*Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.*

- **This power tool is intended to function as a polisher. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.**  
Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- **Operations such as grinding, sanding, wire brushing, or cutting-off are not recommended to be performed with this power tool.**  
Operations for which the power tool was not designed may create a hazard and cause personal injury.
- **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.
- **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.**  
Incorrectly sized accessories cannot be adequately guarded or controlled.
- **Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange.**  
Accessories that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.**
- **Wear personal protective equipment.** Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- **Hold the power tool by the insulated gripping surfaces when performing an operation where the tool attachment may contact hidden power leads.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.
- **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.
- **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

## Kickback and Related Warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding. For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.
- **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.
- **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
- **Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.  
**Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control.

## Safety Warnings Specific for Polishing Operations

- **Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings.**

Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

## Noise and vibration



### NOTE

*Values for the A-weighted sound pressure level and for the total vibration values can be found in the "Technical specifications" table.*

*The noise and vibration values have been determined in accordance with EN 62841.*



### CAUTION!

*The indicated measurements refer to new power tools. Daily use causes the noise and vibration values to change.*



### NOTE

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 62841 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure. The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly decrease the exposure level over the total working period. Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.



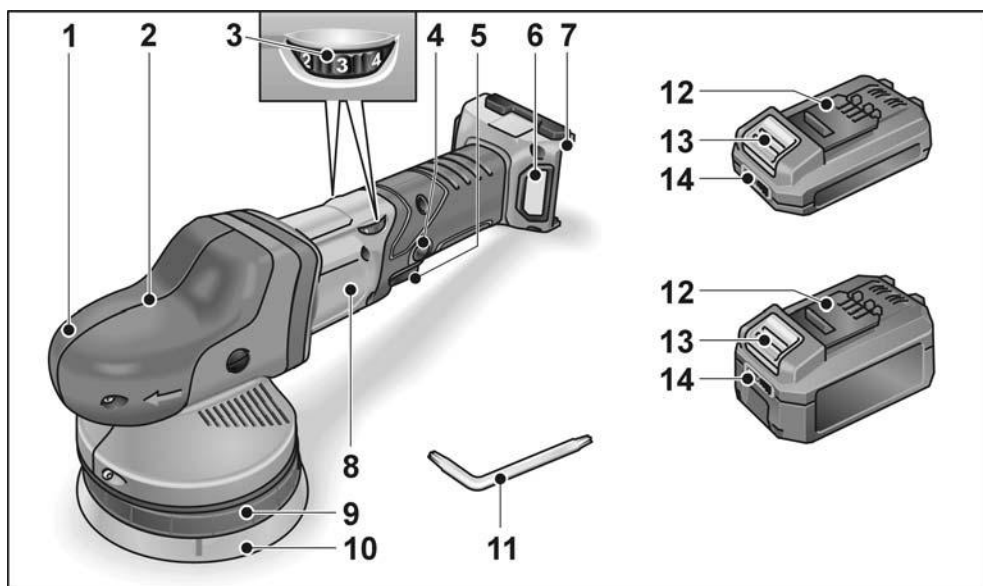
### CAUTION!

*Wear ear protection at a sound pressure above 85 dB(A).*

## Technical specifications

		<b>XFE 15 150 18.0-EC</b>
Machine type		Orbital polisher
Nominal voltage	V	18
Battery		AP 18.0/2.5 AP 18.0/5.0
Tool holder		Velcro Ø 125/150
Tool Ø max.	mm	150
Orbit	mm	15
No load speed	r.p.m.	4,600-7,600
Weight according to "EPTA Procedure 01/2003" (without battery)	kg	2.1
Weight of battery - AP 18.0/2.5 - AP 18.0/5.0	kg kg	0.42 0.72
Average battery life (depending on speed, tool diameter, load ...) - AP 18.0/2.5 - AP 18.0/5.0	min min	20 40
<b>A-weighted sound pressure level according to EN 62841 (see "Noise and vibration"):</b>		
Sound pressure level $L_{pA}$	dB(A)	77
Sound power level $L_{WA}$	dB(A)	88
Uncertainty K	db	3.0
<b>Total vibration value according to EN 62841 (see "Noise and vibration"):</b>		
Emission value $a_h$	$m/s^2$	7.5
Uncertainty K	$m/s^2$	1.5

## Overview



- |  |  |
|--|--|
| <p><b>1 Grip hood</b><br/>With air outlet and direction-of-rotation arrow.</p> <p><b>2 Gear head *</b></p> <p><b>3 Dial for preselecting the speed</b></p> <p><b>4 Locking button</b><br/>Locks the switch (5) during continuous operation.</p> <p><b>5 Switch</b><br/>Switches the power tool on and off and also accelerates it up to the preselected speed.</p> | <p><b>6 Filter cover</b></p> <p><b>7 Slot for battery</b></p> <p><b>8 Rating plate</b></p> <p><b>9 Disc support</b></p> <p><b>10 Velcro pad</b></p> <p><b>11 Torx wrench T15</b></p> <p><b>12 Li-ion battery (2.5 Ah or 5.0 Ah)</b></p> <p><b>13 Release button for battery</b></p> <p><b>14 State of charge indicator</b></p> |
|--|--|

\* not illustrated

## Instructions for use



### **WARNING!**

*Remove the battery before carrying out any work on the power tool.*

### **Before switching on the polisher**

Unpack the polisher and check that there are no missing or damaged parts.



### **NOTE**

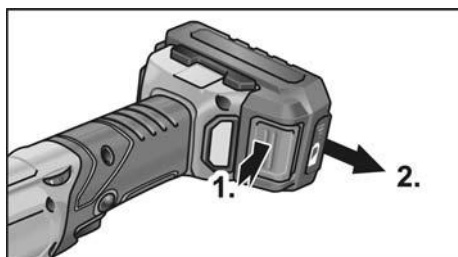
*The batteries are not fully charged on delivery. Prior to initial operation, charge the batteries fully. Refer to the charger operating manual.*

### **Inserting/replacing the battery**

- Press the charged battery into the power tool until it clicks into place.



- To remove, press the release button (1.) and pull out the battery (2.).

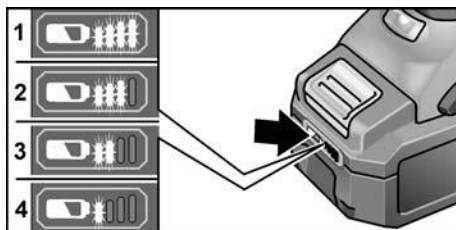


### **CAUTION!**

*When the device is not in use, protect the battery contacts. Loose metal parts may short-circuit the contacts; explosion and fire hazard!*

## Battery state of charge

- Press the button to check the state of charge at the state of charge indicator LEDs.

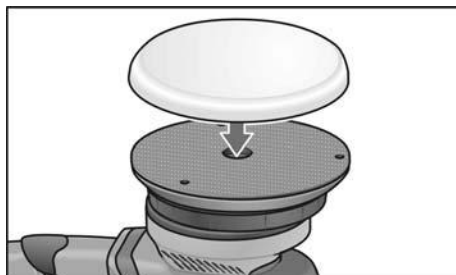


the indicator goes out after 5 seconds.

If one of the LEDs flashes, the battery must be recharged. If none of the LEDs light up after the button is pressed, the battery is faulty and must be replaced.

## Attaching/changing the tool

- Remove the battery.



- Firmly press polishing tool, centred on the eye, onto the Velcro pad. Use undamaged polishing tools only.
- Insert the battery.
- Switch on the polisher (without engaging it) and run the polisher for approx. 30 seconds. Check for imbalances and vibrations.
- Switch off the polisher.

## Attaching the tools



### **CAUTION!**

*Attach the tools in the centre of the tool holder. Imbalances may damage the power tool. The work result may be impaired.*



### **NOTE**

Use original FLEX accessories on this model. Not using original FLEX accessories may lead to a poor polishing result, increased vibrations and also greater wear or even damage to the power tool.

### Information concerning foam wear

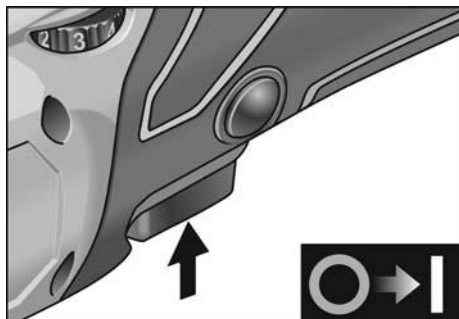
#### **NOTE**

In general, foam wear is much higher in connection with free-wheeling eccentric polishing that with rotational polishing or force-driven eccentric polishing.

Due to the drive, this wear does not take place on the outside of the foam but at the foam core instead. The harder/longer the cell structure is subjected to strain and damaged as a result, the faster the build-up of heat. Subsequent damage is inevitable. Wear of this kind cannot be seen on the foam externally. The only reliable action is replacement and disposal in good time to prevent thermal damage to the power tool.

### Switch on and off

#### Brief operation without engaged switch rocker

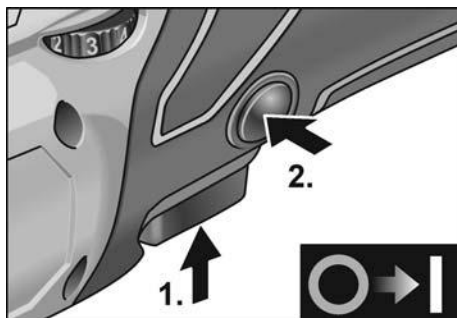


- Press and hold down the switch.
- To switch off, release the switch.

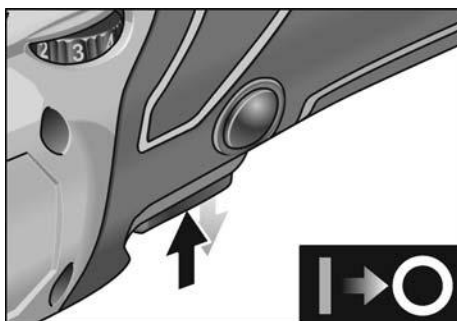
#### Continuous operation with engaged switch rocker

##### Switching off/removing the rechargeable battery

- Switch off the electric power tool.
- Switch on the electric power tool again.

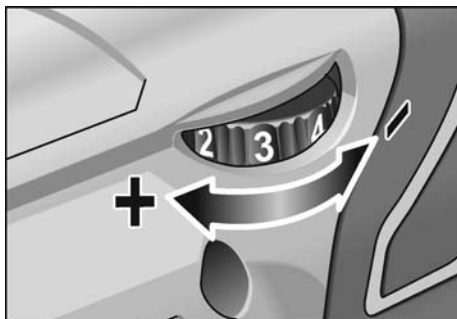


- Press and hold down the switch (1.).
- To lock into position, hold down the locking button (2.) and release the switch.



- To switch off, briefly press and release the switch.

### Preselecting the speed



- To set the operating speed, move the dial to the required value.
- Gently press the switch to accelerate the power tool up to the preselected speed.



**NOTE**

*In the event of overload or overheating in non-stop operation, the power tool will switch off.*

*To continue working, switch the power tool off and back on again.*

**Work instructions****CAUTION!**

*When the polisher is switched off, the polishing tool continues running briefly.*

**NOTE**

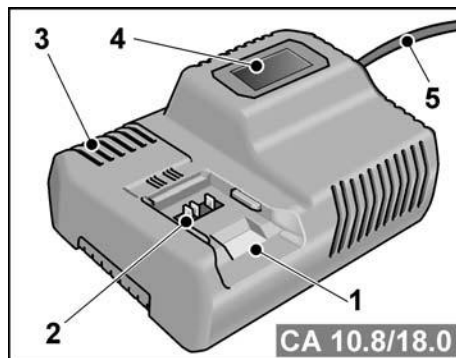
*Following a tool change (e.g. wool pad instead of polishing sponge), the difference in weight may increase the vibrations. Change the operating speed with the adjusting wheel until the vibrations have been reduced.*

- Switch on the machine before placing it on the surface which is to be polished and run the polisher up to the set speed.



- Move the polishing tool without pressure and make circular, overlapping movements on the surface to be polished in order to achieve good polishing results and to prolong the service life of the tool.
- If using a polishing paste, use the respective tool for each paste.

For further information on the manufacturer's products go to [www.flex-tools.com](http://www.flex-tools.com).

**Charger**

- 1 Insertion slot for battery
- 2 Contacts
- 3 Ventilation slots
- 4 Operating state display
- 5 Power cord with mains plug

The CA 10.8/18.0 charger is designed to charge FLEX batteries of the following types

- AP 10.8 (2.5 Ah),
- AP 18.0 (2.5 Ah),
- AP 10.8 (5.0 Ah),
- AP 18.0 (5.0 Ah).

**Tips for a long battery service life****CAUTION!**

- *Never charge batteries at temperatures below 0 °C or above 55 °C.*
- *Do not charge batteries in environments with high air humidity or ambient temperature*
- *Do not cover batteries and the charger during the charging process.*
- *Pull out the charger mains plug at the end of the charging process.*

Battery and charger heat up during the charging process. This is perfectly normal!

Lithium-ion batteries do not exhibit the established “memory effect”. Nevertheless, a battery should be completely discharged before charging and the charging process should always be fully completed.

If batteries are not used for an extended period of time, store them partially charged in a cool place.

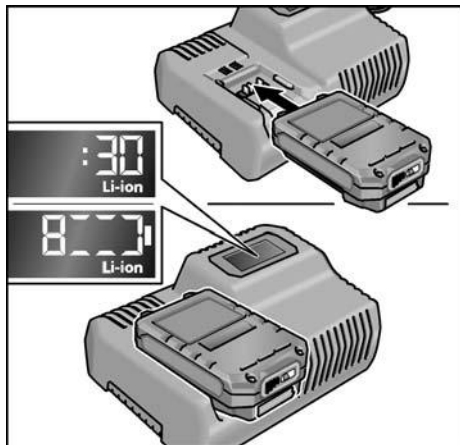
## Charging process



### CAUTION!

Insert only original batteries in the supplied charger.

- Insert the charger mains plug. The display backlighting lights up green for 2 seconds and then goes out again. OK is displayed.



- Insert the battery fully into the charger until it clicks into place.
  - The time remaining in the charging process (until the battery is fully charged) and a graphic representation of the state of charge are shown alternately in the display.
  - The display backlighting lights up orange when the battery is charged less than 80%.
  - When the battery charge reaches 80% the display lights up green and OK is indicated.
- The battery is fully charged when the display appears.

The green backlighting goes out after a short time.

- Remove the battery from the charger.



- Pull out the mains plug.



### NOTE

If the display flashes after the battery is inserted in the charger, there is a fault in the battery or in the charger.



Display flashes slowly.  
Backlighting orange.

The battery is too hot or too cold. The charging process starts when the battery reaches the charging temperature (0°C...55°C).



Display flashes rapidly.  
Backlighting red.

Remove the battery from the charger and insert again. If the same display persists, the battery is faulty. Replace the battery or have it checked at an authorised repair shop.

If this error message is displayed again with a different battery, this indicates that there is a fault in the charger. Have the charger checked at an authorised repair shop.

## Maintenance and care



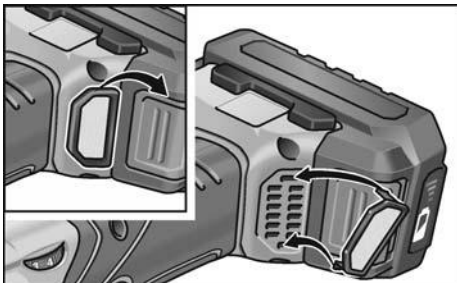
### WARNING!

Remove the battery before carrying out any work on the power tool.

### Cleaning

- Clean the power tool and grille in front of the vent slots regularly. Frequency of cleaning is dependent on the material and duration of use.
- Regularly blow out the housing interior and motor with dry compressed air.

- Regularly clean the filter cover.



Remove filter cover and blow it out with dry compressed air.

## Gears

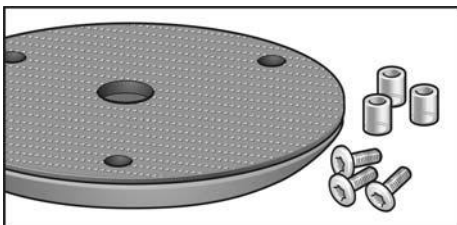


### NOTE

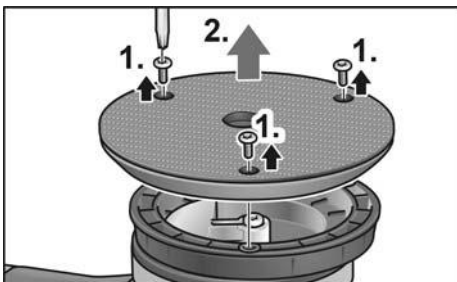
*Do not loosen the screws on the gear head during the warranty period.  
Non-compliance will deem the guarantee obligations of the manufacturer null and void.*

## Replacement of wear parts

### Change Velcro pad

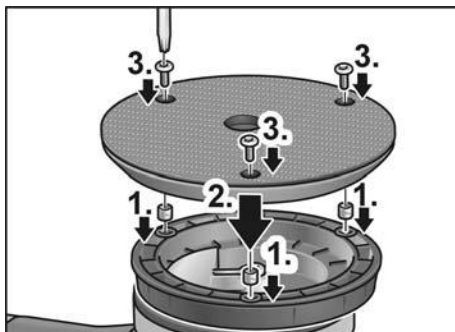


- Remove the battery.
- Remove the polishing tool.
- Place machine on its back.



- Release and remove screws with Torx wrench (1.).
- Remove worn Velcro pad (2.).

- Remove old bushes.
- Remove contaminants from interior.



- Insert new bushes (1.).
- Fit new Velcro pad and align securing holes (2.).
- Insert screws and tighten with Torx wrench (3.).
- Insert the battery.
- Carry out test run. Check for imbalances and vibrations.

## Repairs

Repairs may be carried out by an authorised customer service centre only.

## Spare parts and accessories



### NOTE

*Only the tools released by FLEX may be used.*

For other accessories, in particular tools and polishing aids, see the manufacturer's catalogues.

Exploded drawings and spare-part lists can be found on our homepage:

[www.flex-tools.com](http://www.flex-tools.com)

## Disposal information



### WARNING!

*Render redundant power tools unusable:*

- mains operated power tool by removing the power cord,
- battery operated power tool by removing the battery.



EU countries only

Do not throw electric power tools into the household waste!

In accordance with the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment and transposition into national law used electric power tools must be collected separately and recycled in an environmentally friendly manner.



**Raw material recovery instead of waste disposal.**

Device, accessories and packaging should be recycled in an environmentally friendly manner. Plastic parts are identified for recycling according to material type.



**WARNING!**

*Do not throw batteries into the household waste, fire or water. Do not open used batteries.*

EU countries only:

In accordance with Directive 2006/66/EC defective or used batteries must be recycled



**NOTE**

*Please ask your dealer about disposal options!*

## CE-Declaration of Conformity

We declare under our sole responsibility that the product described under "Technical specifications" conforms to the following standards or normative documents:

EN 62841 in accordance with the regulations of the directives 2014/30/EU, 2006/42/EC, and 2011/65/EU.

Responsible for technical documents:

FLEX-Elektrowerkzeuge GmbH, R & D  
Bahnhofstrasse 15, D-71711 Steinheim/Murr

Eckhard Rühle  
Manager Research &  
Development (R & D)

Klaus Peter Weinper  
Head of Quality  
Department (QD)

26.03.2018

FLEX-Elektrowerkzeuge GmbH  
Bahnhofstrasse 15, D-71711 Steinheim/Murr

## Exemption from liability

The manufacturer and his representative are not liable for any damage and lost profit due to interruption in business caused by the product or by an unusable product.

The manufacturer and his representative are not liable for any damage which was caused by improper use of the power tool or by use of the power tool with products from other manufacturers.