Nothing but **HEAVY DUTY.**®

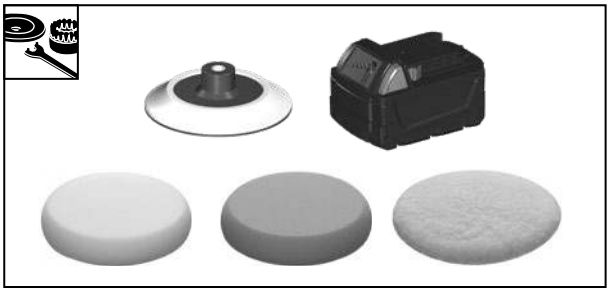


# M18 FAP180

Original instructions


M18 FAP180


Milwaukee





**I**



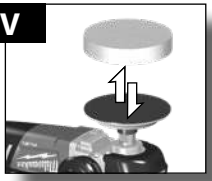
**II**



**III**



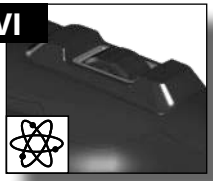
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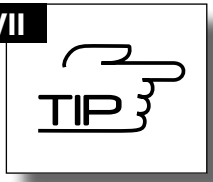
**V**




**VI**



**VII**




**VIII**



**IX**

Technical Data,Safety Instructions, Specified Conditions of Use, Declaration of Conformity, Batteries, Maintenance, Symbols

**Please read and save these instructions!**

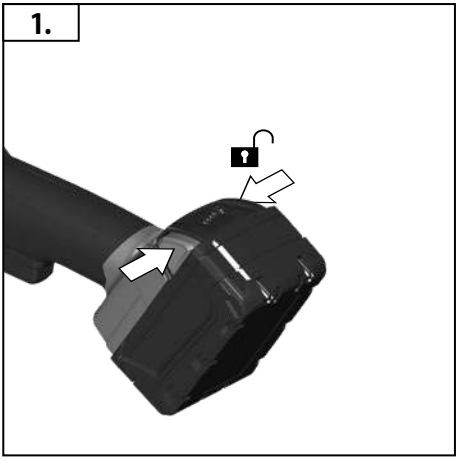


I



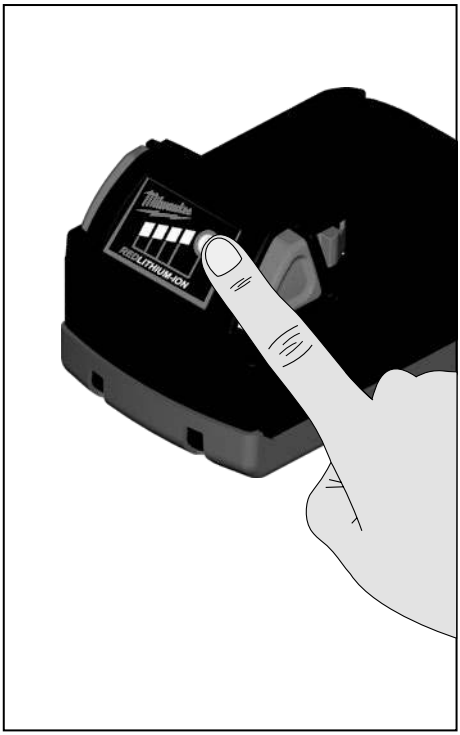


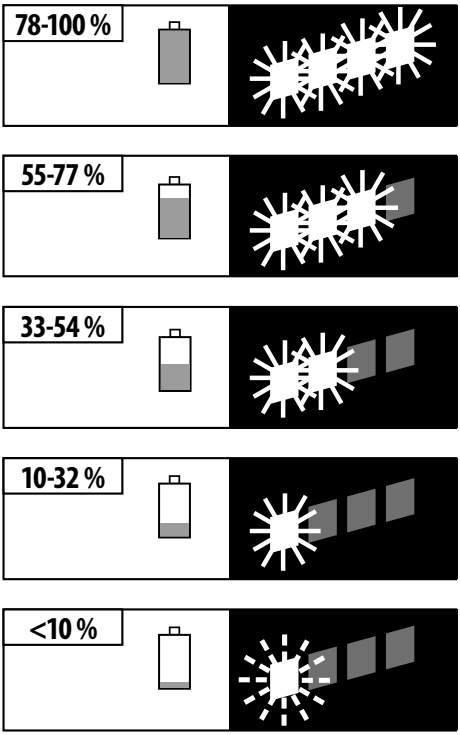




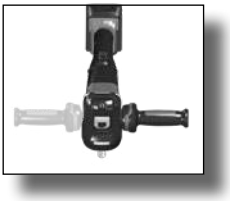





78-100 %
55-77 %
33-54 %
10-32 %
<10 %


I

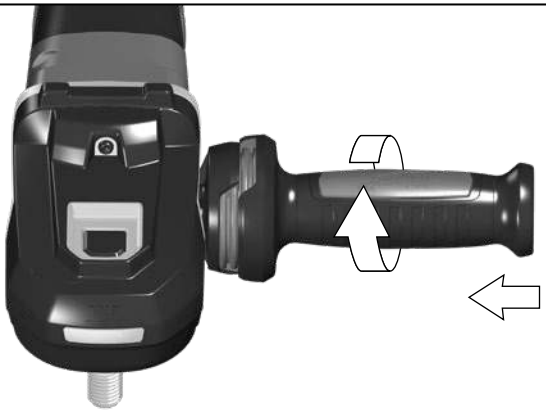




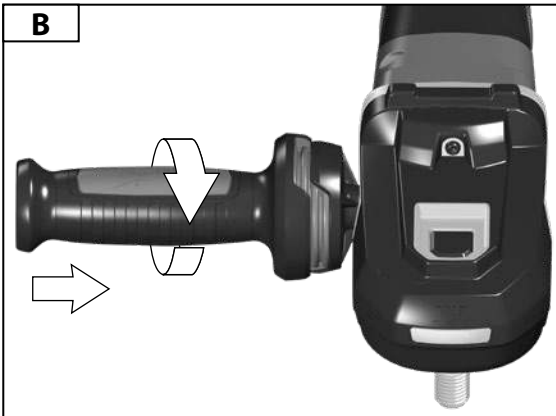


II

A



B







A

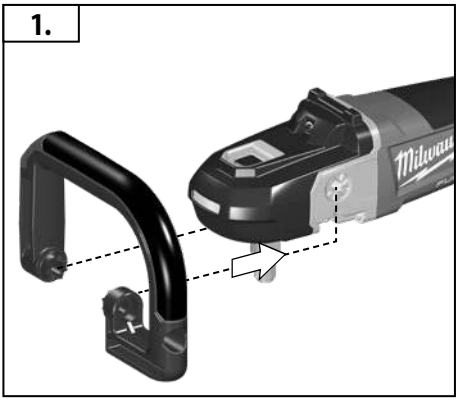


B

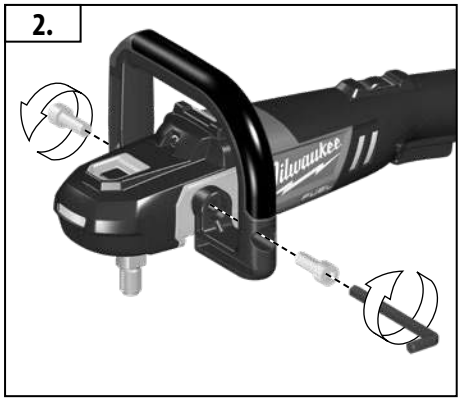


III

1.

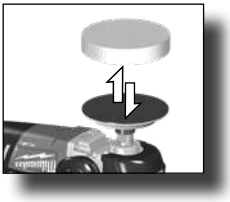


2.



3.

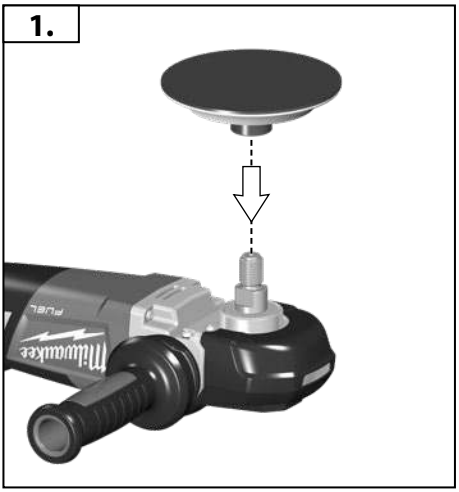


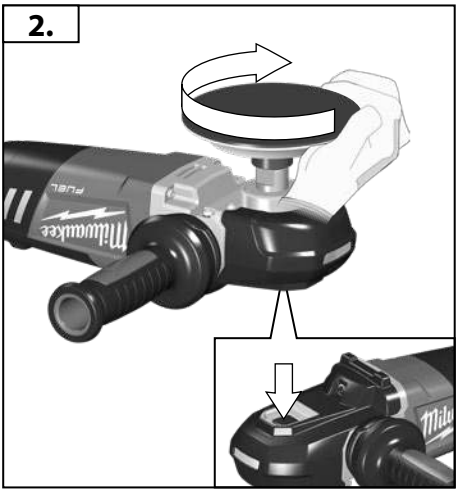






IV

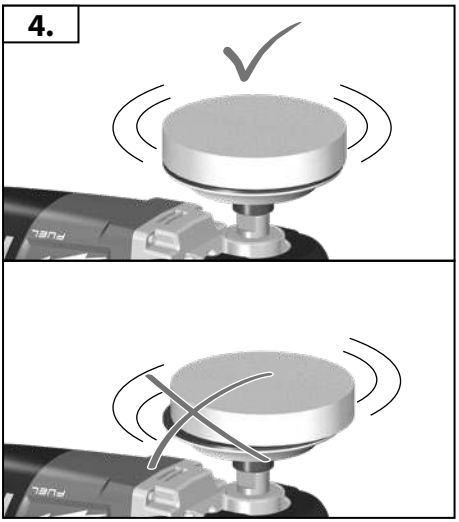









START
STOP




Start A


Stop A


START
STOP



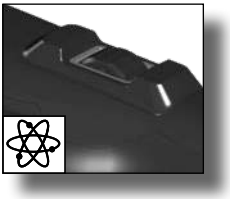
START STOP

V

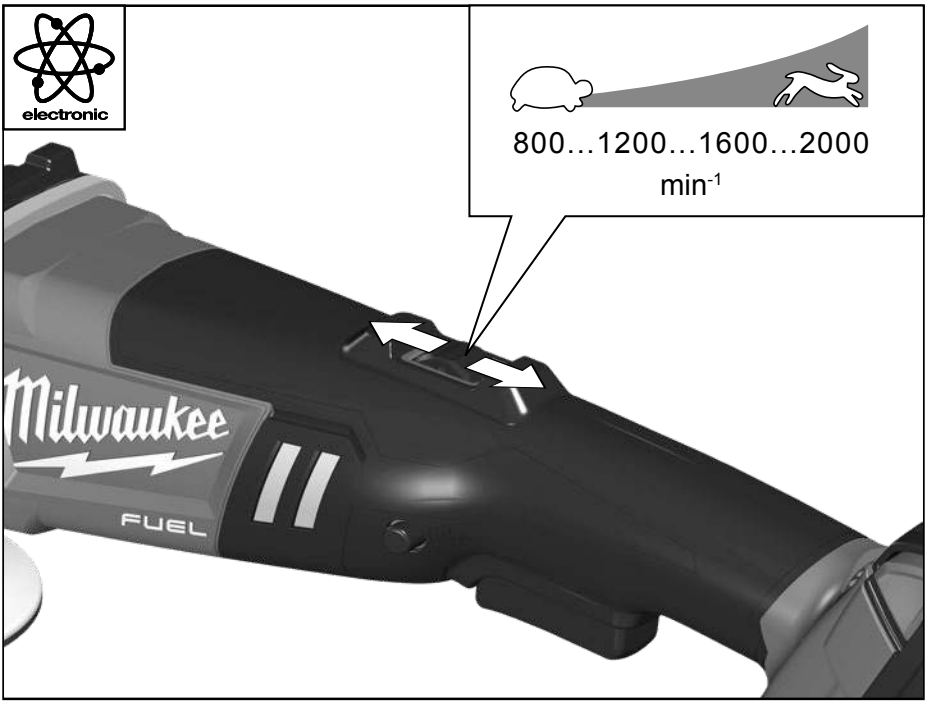

Start B
Milwaukee
FUEL
2
1
lock

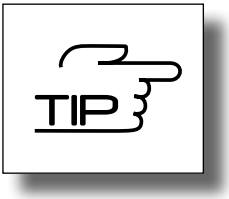

Stop B
Milwaukee
FUEL
1
2
unlock


lock
Milwaukee
FUEL






electronic
800…1200…1600…2000
min-1
Milwaukee
FUEL

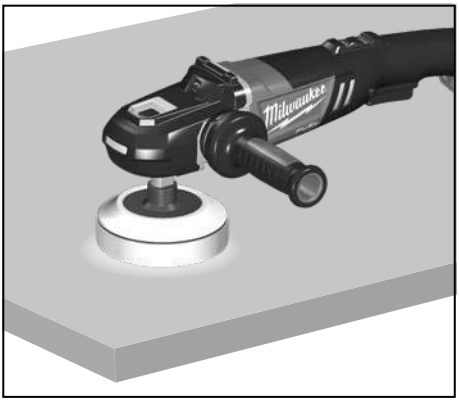

TIP

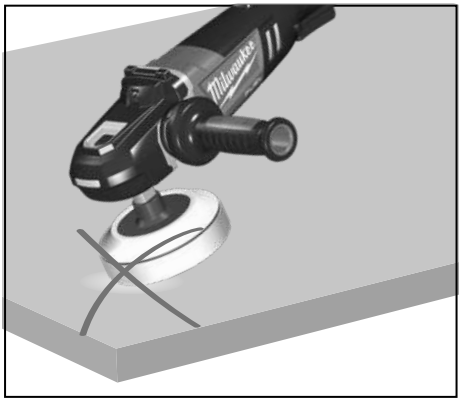




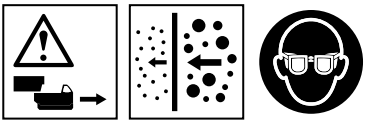




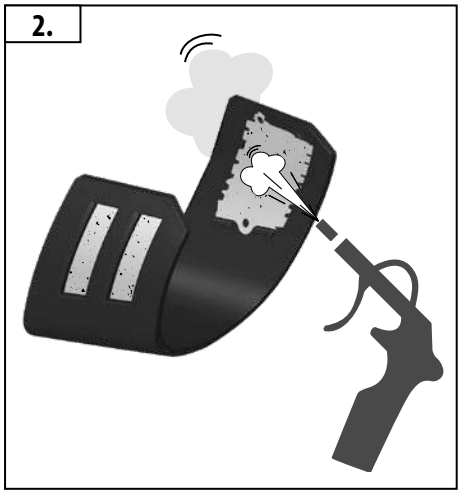





Milwaukee
FUEL




1.
Milwaukee
FUEL


2.



VIII


3.
Milwaukee
FUEL


4.
Milwaukee
FUEL
click

| TECHNICAL DATA<br>Polisher | M18 FAP180 |
|---|---|
| Production code | 4568 45 04...<br>... 000001-999999 |
| Volts | 18 V |
| Rated speed | 360 - 2200 $min^{-1}$ |
| Polishing backing pad Diameter max. | 125 mm |
| Polishing pad Diameter max. | 180 mm |
| Thread of work spindle | M 14 |
| Weight according EPTA-Procedure 01/2014 (Li-Ion 5,0 Ah) | 3,1 kg |
| **Noise information**<br>Measured values determined according to EN 60745. Typically, the A-weighted noise levels of the tool are: | |
| Sound pressure level (Uncertainty K=3dB(A))<br>Sound power level (Uncertainty K=3dB(A))<br>**Wear ear protectors!** | 78,54 dB (A)<br>89,54 dB (A) |
| **Vibration information**<br>Vibration total values (triaxial vector sum) determined according to EN 60745 | |
| Polishing: Vibration emission value $a_{h,P}$<br>Uncertainty K= | 1,1 $m/s^2$<br>1,5 $m/s^2$ |

IX

**WARNING!**

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 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.
An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce 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.

**⚠ WARNING! Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
**Save all warnings and instructions for future reference.**

## ⚠ POLISHER SAFETY WARNINGS

**Safety Warnings common for Polishing:**

**a) 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.

**b) Operations such as sanding, abrasive and rough grinding, and working with wire brushes 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.

**c) 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.

**d) 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.

**e) 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.

**f) 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.

**g) 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.

**h) Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and shop 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.

**i) 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.

**j) Hold the power tool by insulated gripping surfaces only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

**k) Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning wheel.

**l) 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.

**m) 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.

**n) 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.

**o) Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

**p) 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.

**a) 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.

**b) Never place your hand near the rotating accessory.** Accessory may kickback over your hand.

**c) 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.

**d) 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.

**e) 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:**

**a) 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.

**Additional Safety and Working Instructions**

Never reach into the danger area of the machine when it is running.

Chips and splinters must not be removed while the machine is running.

Immediately switch off the machine in case of considerable vibrations or if other malfunctions occur. Check the machine in order to find out the cause.

For accessories intended to be fitted with threaded hole wheel, ensure that the thread in the wheel is long enough to accept the spindle length.

Always use the auxiliary handle.

The workpiece must be fixed if it is not heavy enough to be steady. Never move the workpiece towards the rotating disk by hand.

Do not let any metal parts enter the airing slots - danger of short circuit!

WARNING! To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fluid or al-low a fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach containing products, etc., Can cause a short circuit.

Use only System M18 chargers for charging System M18 battery packs. Do not use battery packs from other systems.

Never break open battery packs and chargers and store only in dry rooms. Keep dry at all times.

## BATTERIES

Battery packs which have not been used for some time should be recharged before use.

Temperatures in excess of 50°C (122°F) reduce the performance of the battery pack. Avoid extended exposure to heat or sunshine (risk of overheating).

The contacts of chargers and battery packs must be kept clean.

For an optimum life-time, the battery packs have to be fully charged, after use.

To obtain the longest possible battery life remove the battery pack from the charger once it is fully charged.

For battery pack storage longer than 30 days: Store the battery pack where the temperature is below 27°C and away from moisture Store the battery packs in a 30% - 50% charged condition Every six months of storage, charge the pack as normal.

## TRANSPORTING LITHIUM BATTERIES

Lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.

Transportation of those batteries has to be done in accordance with local, national and international provisions and regulations.

The user can transport the batteries by road without further requirements.

Commercial transport of Lithium-Ion batteries by third parties is subject to Dangerous Goods regulations. Transport preparation and transport are exclusively to be carried out by appropriately trained persons and the process has to be accompanied by corresponding experts.

When transporting batteries:

Ensure that battery contact terminals are protected and insulated to prevent short circuit.

Ensure that battery pack is secured against movement within packaging.

Do not transport batteries that are cracked or leak.

Check with forwarding company for further advice

## SPECIFIED CONDITIONS OF USE

The polisher can be used for polishing lacquers, coatings, plastics and other smooth surfaces.

## RESTART CUTOUT

A zero-voltage switch prevents the machine from restarting after a power cut (Battery change).

When resuming work, switch the machine off and then switch it back on again.

## MAINTENANCE

The ventilation slots of the machine must be kept clear at all times.

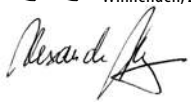
Use only Milwaukee accessories and Milwaukee spare parts. Should components need to be replaced which have not been described, please contact one of our Milwaukee service agents (see our list of guarantee/ service addresses).

If needed, an exploded view of the tool can be ordered. Please state the Article No. as well as the machine type printed on the label and order the drawing at your local service agents or directly at: Techtronic Industries GmbH, Max-Eyth-Straße 10, 71364 Winnenden, Germany.

## EC-DECLARATION OF CONFORMITY

We declare under our sole responsibility that the product described under "Technical Data" fulfills all the relevant provisions of the directives
2011/65/EU (RoHS)
2006/42/EC
2014/30/EU
and the following harmonized standards have been used.
EN 60745-1:2009 + A11:2010
EN 60745-2-3:2011+A2:2013
EN 55014-1:2017+A11:2020
EN 55014-2:2015
EN IEC 63000:2018

CE Winnenden, 2020-11-17



Alexander Krug / Managing Director
Authorized to compile the technical file
Techtronic Industries GmbH
Max-Eyth-Straße 10, 71364 Winnenden, Germany

## SYMBOLS


CAUTION! WARNING! DANGER!


Please read the instructions carefully before starting the machine.


Always wear goggles when using the machine.


Wear gloves!


Remove the battery pack before starting any work on the appliance.


Accessory - Not included in standard equipment, available as an accessory.


Do not dispose electric tools, batteries/rechargeable batteries together with household waste material. Electric tools and batteries that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility. Check with your local authority or retailer for recycling advice and collection point.

CE European Conformity Mark

UKCA British Conformity Mark


Ukraine Conformity Mark

EAC EurAsian Conformity Mark

IX

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