



Nothing but **HEAVY DUTY.**



M18 FDGROVB **M18 FDGROVPDB**

Original instructions

Originalbetriebsanleitung

Notice originale

Istruzioni originali

Manual original

Oorspronkelijke gebruiksaanwijzing

Original brugsanvisning

Original bruksanvisning

Bruksanvisning i original

Alkuperäiset ohjeet

Πρωτότυπο οδηγίων χρήσης

Orijinal işletme talimatı

Původním návodem k

používání

Pôvodný návod na použitie

Instrukcją oryginalną

Eredeti használati utasítás

Izvirna navodila

Originalne pogonske upute

Instrukcijām oriģinālvalodā

Originali instrukcija

Algupärane kasutusjuhend

Оригинальное руководство
по эксплуатации

Оригинално ръководство за
експлоатация

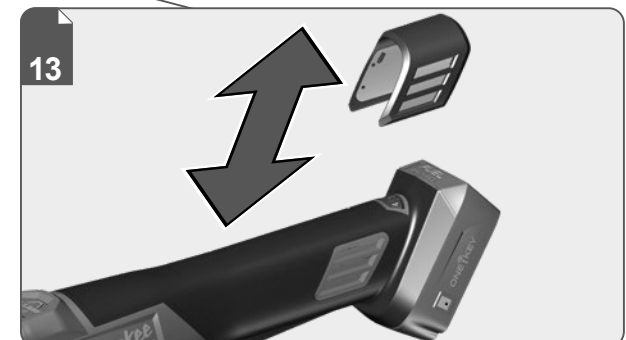
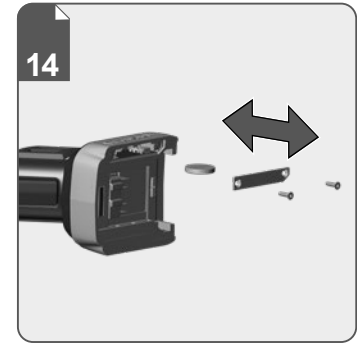
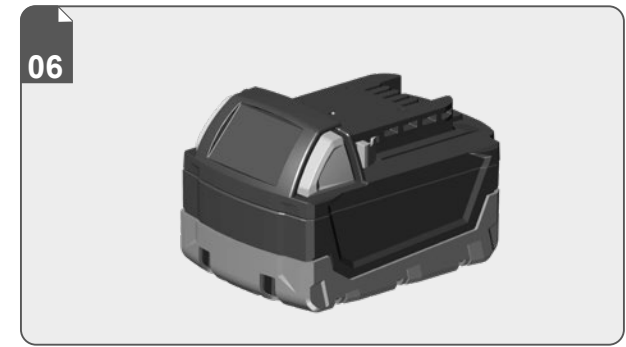
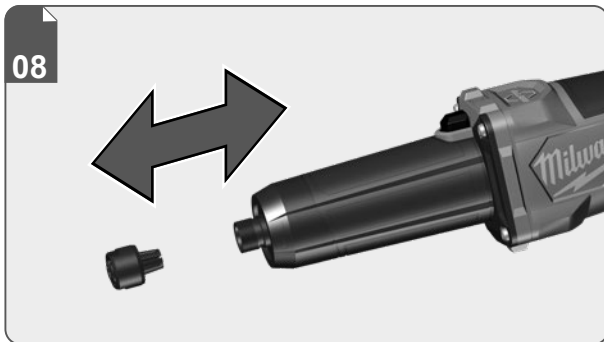
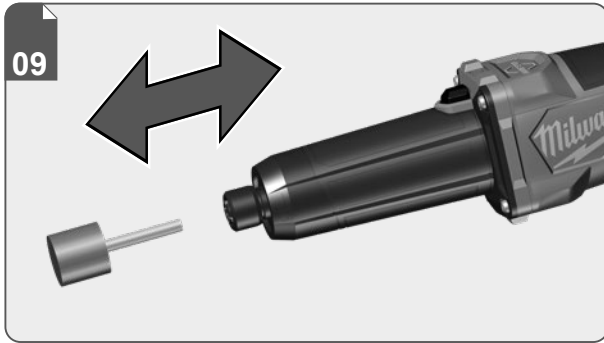
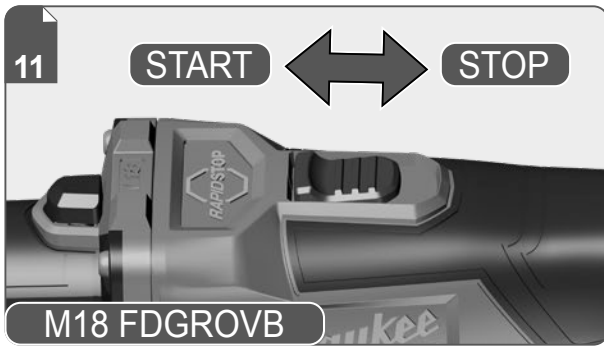
Instrucțiuni de folosire origi-
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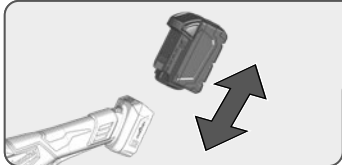
Оригинален прирачник за
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Оригінал інструкції з
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Remove the battery pack before starting any work on the machine.
Vor allen Arbeiten an der Maschine den Wechselakku herausnehmen.

Avant tous travaux sur la machine retirer l'accu interchangeable.

Prima di iniziare togliere la batteria dalla macchina.

Retire la batería antes de comenzar cualquier trabajo en la máquina.

Antes de efectuar cualquier intervención na máquina retirar o bloco acumulador.

Voor alle werkzaamheden aan de machine de akku verwijderen.

Ved arbejde inden i maskinen, bør batteriet tages ud.

Ta ut vekslebatteriet før du arbeider på maskinen

Drag ur batteripaket innan arbete utföres på maskinen.

Tarkista pistotulppa ja verkkojohto mahdollisilta vaurioilta. Viat saa korjata vain alan erikoismies.

Πριν από κάθε εργασία στη μηχανή αφαιρείτε την ανταλλακτική μπαταρία.

Aletin kendinde bir çalışma yapmadan önce kartuş aküyü çıkarın.

Před zahájením veškerých prací na vrtacím šroubováku vyjmout výměnný akumulátor.

Pred každou pracou na stroji výměnný akumulátor vytiahnuť.

Przed przystąpieniem do jakichkolwiek prac na elektronarzędziu należy wyjąć wkładkę akumulatorową.

Karbantartás, javítás, tisztítás, stb. előtt az akkumulátort ki kell venni a készülékből.

Pred deli na stroju izvlecite izmenljivi akumulator.

Prije svih radova na stroju izvaditi bateriju za zamjenu.

Pirms mašīnai veikt jebkāda veida apkopes darbus, ir jāizņem ārā akumulators.

Prieš atlikdami bet kokius darbus įrenginyje, išimkite keičiamą akumuliatorių.

Enne kõiki töid masina kallal võtke vahetavat aku välja.

Выньте аккумулятор из машины перед проведением с ней каких-либо манипуляций.

Преди започване на каквото е да е работи по машината извадете акумулатора.

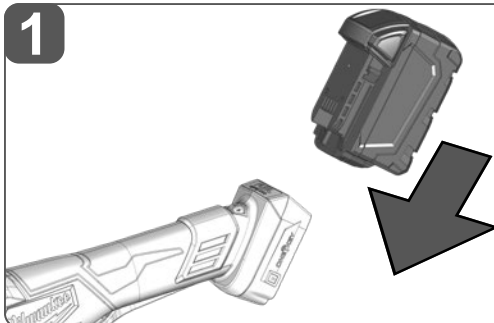
Scoateți acumulatorul înainte de a începe orice intervenție pe mașină.

Отстранете ја батеријата пред да започнете да ја користите машината.

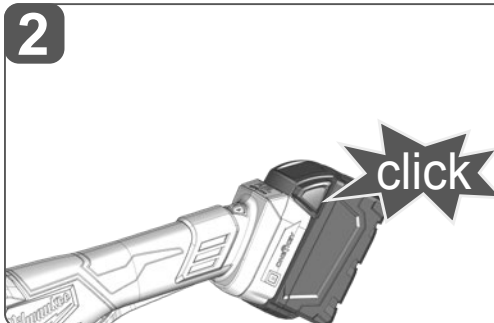
Перед будь-якими роботами на машині вийняти змінну акумуляторну батарею.

قم بإزالة حزمة البطارية قبل البدء في أي أعمال على الجهاز.

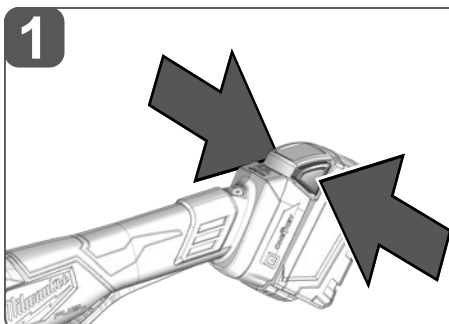
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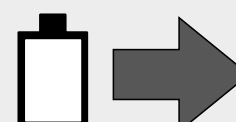
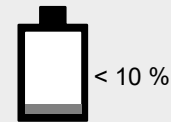
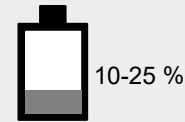
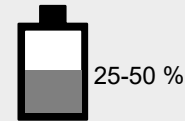
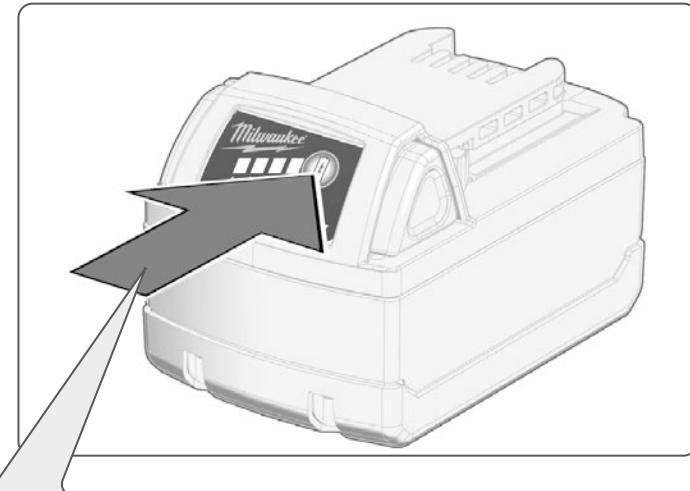
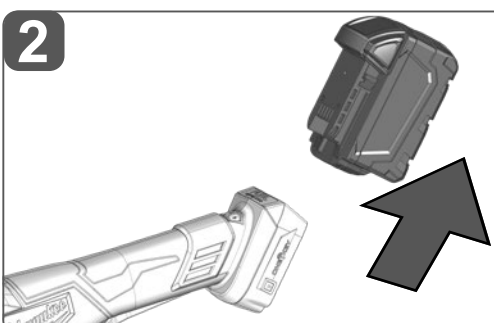
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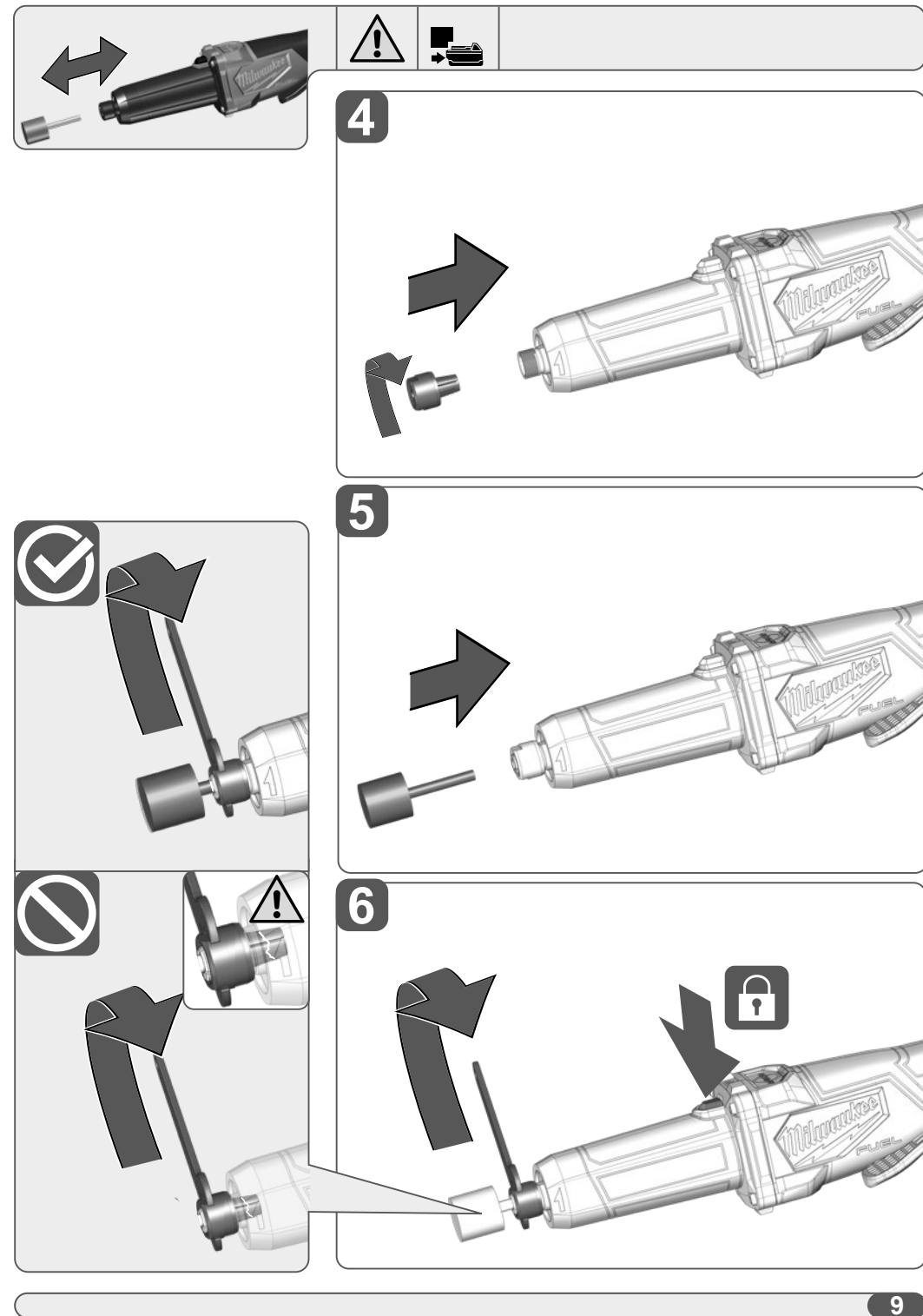
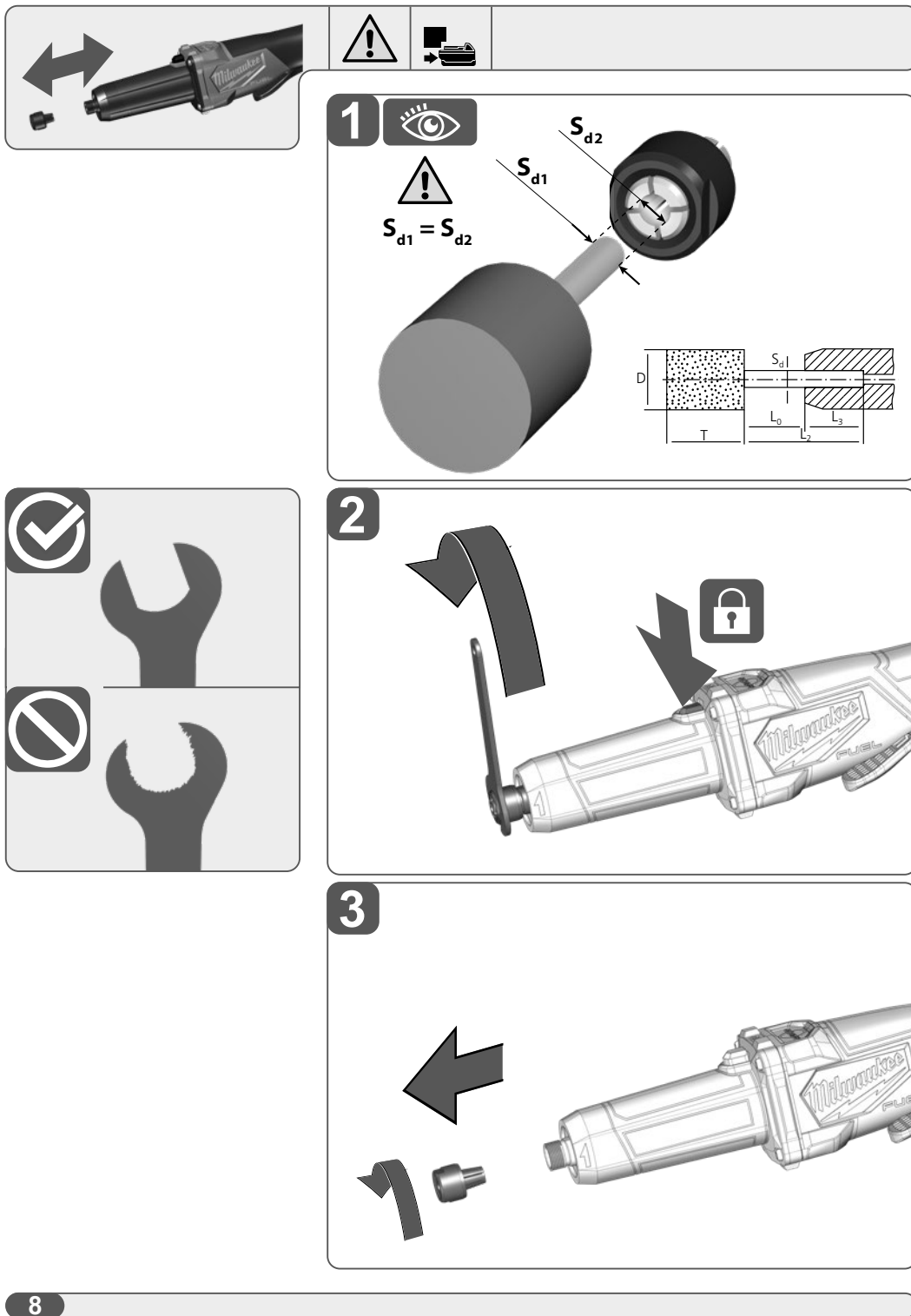


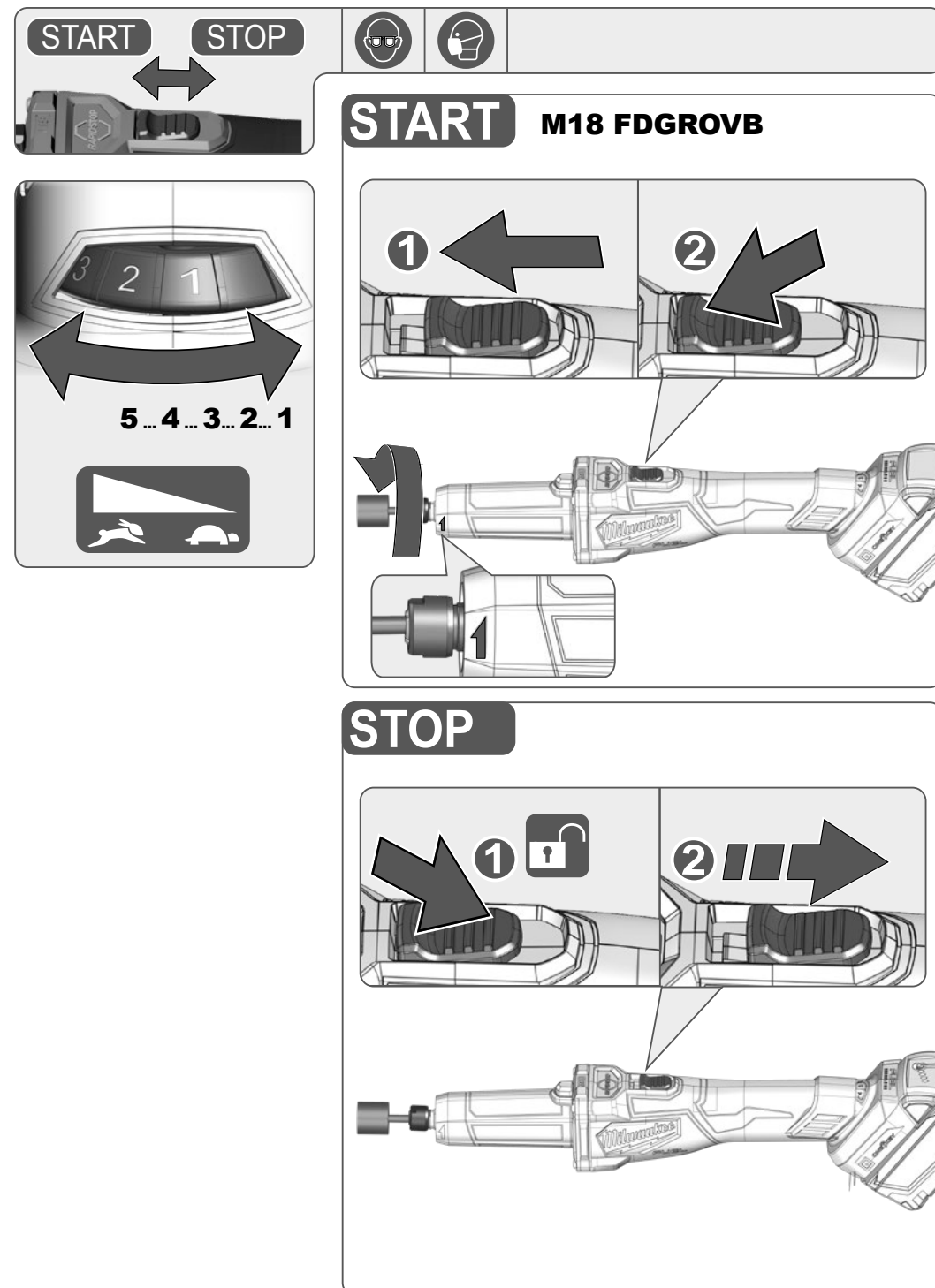
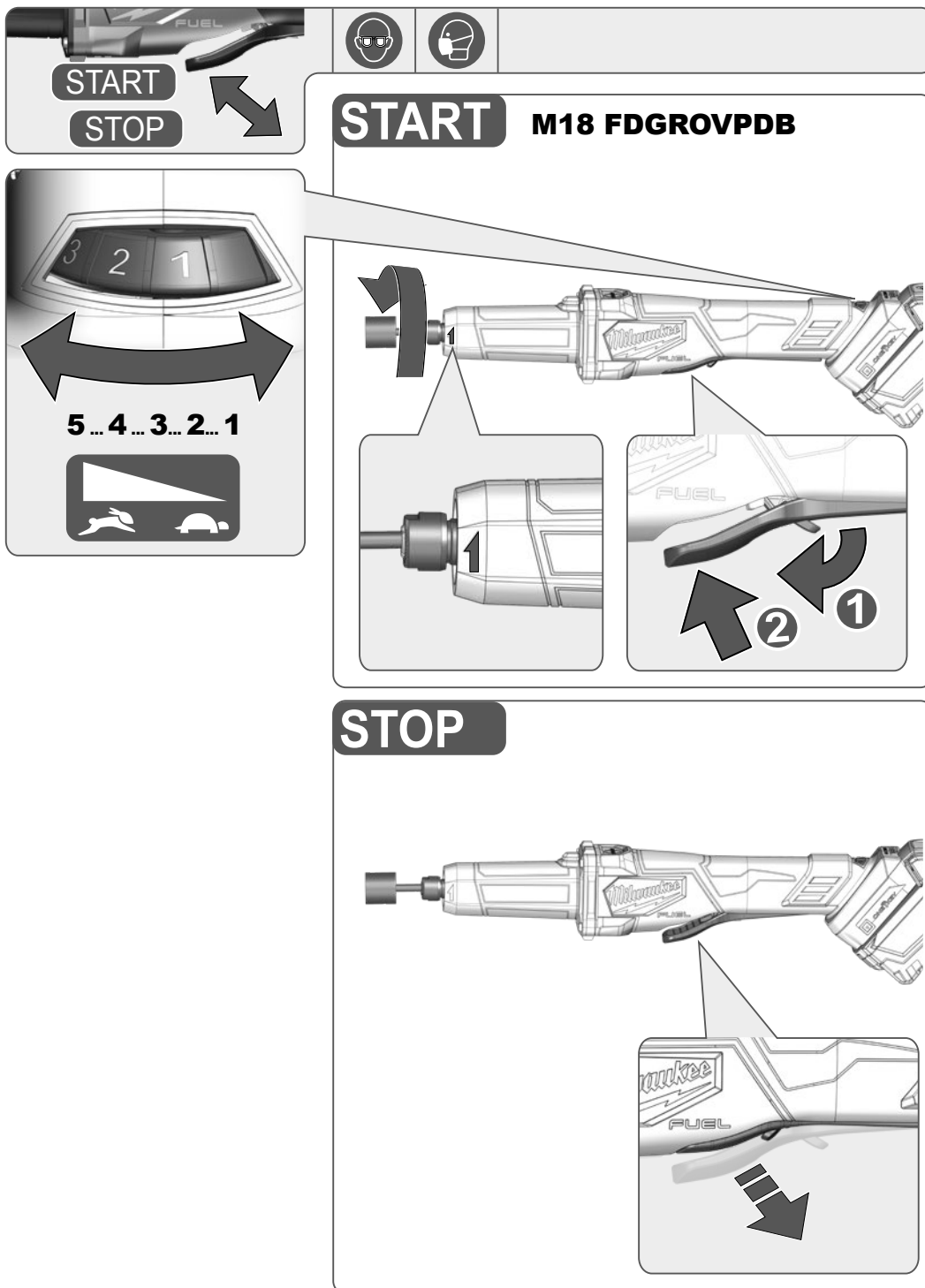
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2







Startup protection:

When switched on, the machine will not start up after the battery is inserted again. To continue working, switch the machine off and then on again.

Wiederanlaufschutz:

Eingeschaltete Maschine läuft nach erneutem Einstecken des Akkus nicht wieder an. Um weiter zu arbeiten Maschine aus- und wieder einschalten.

Protection contre le redémarrage:

La machine enclenchée ne redémarre pas après que l'accu ait été à nouveau branché. Mettre la machine hors tension et l'enclencher à nouveau pour pouvoir continuer à travailler.

Protezione contro la ripartenza:

La macchina che non è stata disattivata non riparte quando si ricollega l'accumulatore. Per poter continuare a lavorare, disattivare la macchina e poi riattivarla.

Protección de nuevo arranque:

La máquina conectada no arranca después de haber introducido nuevamente los acumuladores. Para poder continuar con los trabajos, deberá desconectarse y conectarse nuevamente el motor.

Protecção contra arranque:

A máquina ligada não arranca depois de inserir novamente o acumulador. Para continuar a trabalhar, desligue e ligue a máquina novamente.

Herstartbeveiliging:

De ingeschakelde machine wordt na het hernieuwd plaatsen van de accu niet automatisch weer gestart. Schakel de machine uit en weer in om door te kunnen werken.

Genstartsbeskyttelse:

Forhindrer at en tændt maskine går i gang, når akkumulatorbatteriet sættes i igen. For at genoptage arbejdet slukkes og tændes maskinen igen.

Vern mot gjenstart:

En påslått maskin starter ikke etter at det oppladbare batteriet blir isatt igjen. For videre arbeid må maskinen slås av og på igjen.

Skydd mot omstart:

Om man sätter i batteriet igen så startar maskinen inte fastän den är tillkopplad. För att kunna fortsätta arbeta måste man först fränkoppla maskinen och sedan tillkoppla den igen.

Uudelleenkäynnistyssuoja:

Päälekytketty kone ei käynnisty uudelleen, kun akku työnnetään takaisin paikalleen. Työn jatkamiseksi tulee kone sammuttaa ja käynnistää sitten uudelleen.

Προστασία από επανεκκίνηση:

Η ενεργοποιημένη μηχανή δεν εκκινείται μετά από επανатοποθέτηση του συσσωρευτή. Για να συνεχίσετε την εργασία σας, απενεργοποιήστε και επανενεργοποιήστε τη μηχανή.

Tekrar çalışma esnasındaki koruma:

Çalışmakta olan makine, akünün yeniden prize takılmasından sonra makine tekrar çalışmaz. Çalışmaya devam edebilmek için makineyi kapatın ve tekrar çalıştırın.

Ochrana proti opětnému spuštění:

Zapnutý stroj se po opětném vložení akumulátoru nerozběhne. K pokračování v práci stroj vypněte a opět zapněte.

Ochrana proti opätovnému spusteniu:

Zapnutý stroj sa po opätovnom vložení akumulátorov nerozběhne. K pokračovaniu v práci stroj vypnite a opäť zapnite.

Ochrona przed ponownym rozruchem

Włączona maszyna nie włącza się po ponownym włożeniu akumulatora. W celu kontynuacji pracy wyłączyć i ponownie włączyć maszynę.

Újraindulás elleni védelem:

A bekapcsolt gép az akku újbóli csatlakoztatása után nem indul el ismét. A munkavégzés folytatásához a gépet ki és újból be kell kapcsolni.

Od obremenitve odvisna zaščita motorja:

Pri visoki preobremenitvi motorja se sproži preobremenitveno varovalo. Za nadaljnja dela s strojem ga je potrebno izklopiti in ponovno vklopiti. Za nadaljnja dela s strojem ga je potrebno izklopiti in ponovno vklopiti.

Zaštita motora ovisna o opterećenju:

Kod visokog preopterećenja motora se aktivira zaštita protiv preopterećenja. Da bi se moglo dalje raditi, stroj isključiti i ponovno uključiti. Da bi se moglo dalje raditi, stroj isključiti i ponovno uključiti.

Aizsardzība pret atkārtotu ieslēgšanos:

Ieslēgta ierīce pēc vēlreizējas akumulatora ievietošanas no jauna neieslēdzas. Lai darbu varētu turpināt, ierīci izslēdziet un atkal ieslēdziet.

Pakartotinės paleisties apsauga:

Po pakartotinio akumulatoriaus įkišimo įjungta mašina nepradeda veikti iš naujo. Norėdami dirbti toliau, išjunkite mašiną, o tada vėl ją įjunkite.

Taaskäivituskaitse:

Sisselülitatud masin ei käivitu, kui aku pannakse uuesti sisse. Töö jätkamiseks lülitada masin välja ning seejärel uuesti sisse.

Защита от повторного запуска:

Включенная машина не запускается после повторной вставки аккумулятора. Для дальнейшей работы необходимо выключить и снова включить машину.

Защита срещу повторен старт:

Включената машина не стартира отново след повторно включване на акумулатора в контакта. За да продължите работа изключете машината и след това отново я включете.

Protecție contra redeclanșării:

Mașina pornită nu se va declanșa din nou după ce acumulatoarele au fost introduse din nou. Pentru a putea continua munca opriți mașina și reporniți-o apoi.

Защита од повторно стартување:

Включената машина не се стартува повторно при повторно вметнување на батеријата. За да продолжите со работа исклучете ја машината и вклучете ја повторно.

Захист від повторного запуску:

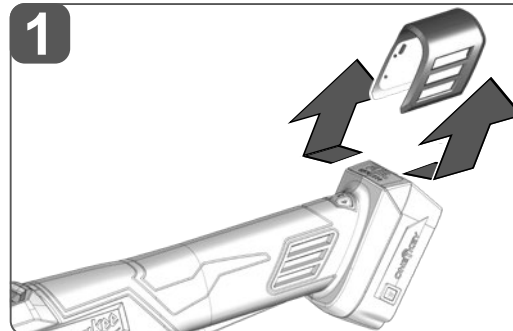
Увімкнена машина не продовжує роботу після того, як була вставлена акумуляторна батарея. Для продовження роботи вимкнути і знову увімкнути машину.

لي غشيتل ادب امح

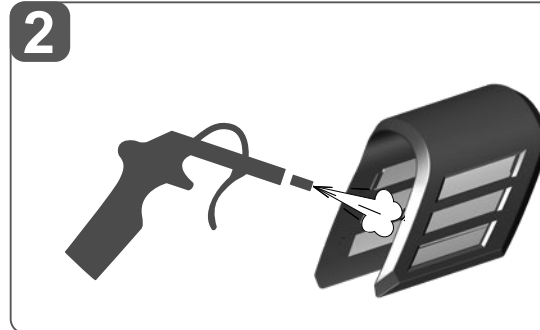
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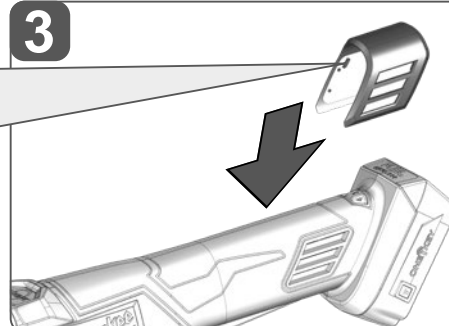
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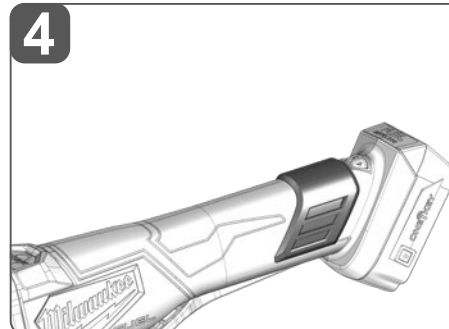
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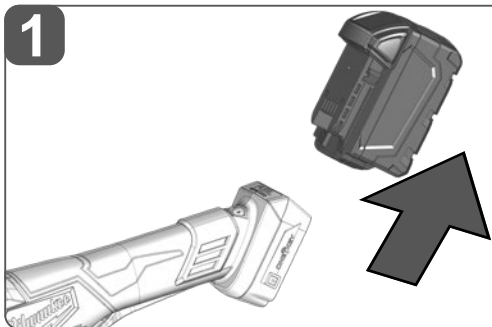
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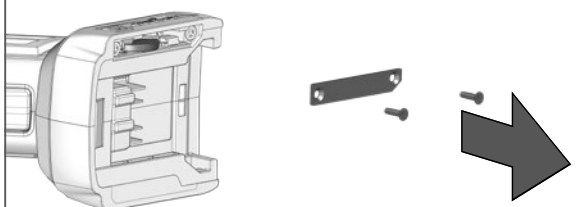
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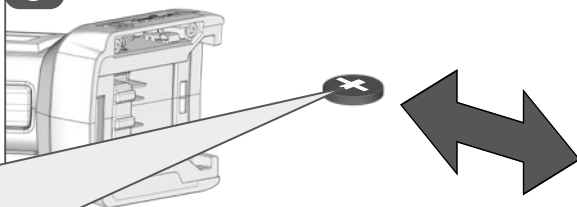
1



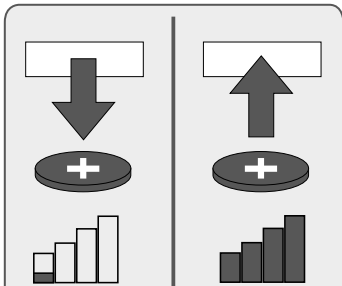
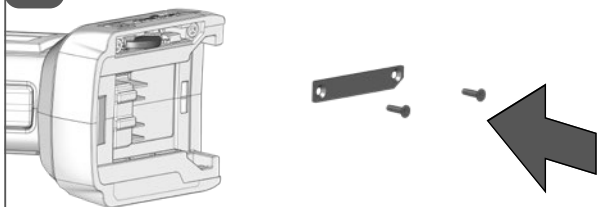
2



3



4



3V CR2032
Coin Cell
Knopfzelle
Batterie bouton
Batteria a bottone
Célula de botón
Knopfzelle
Knoopcel
Knapcelle
Knappcette
Knappcell
Nappiparisto
Κερματοειδής μπαταρία
Düğme pil
Knoflíkový akumulátor
Gombíkový akumulátor
Ogniwo guzikowe
Gombelem
Gumbasta baterija
Čelija
Podziņelements
Diskinis galvaninis elementas
Nõõpelement
Миниатюрный элемент питания
Плоска батерия
Baterie tip nasture
Батерија тип копче
Мініатюрний елемент живлення
بطارية كالأزر

TECHNICAL DATA

	M18 FDGROVB	M18 FDGROVPDB
Type	Die Grinder	Die Grinder
Production code	4918 20 01 XXXXXX MJJJJ	4918 30 01 XXXXXX MJJJJ
Battery voltage	18 V $\approx$	18 V $\approx$
Frequency band(s) of Bluetooth	2402-2480 MHz	2402-2480 MHz
Radio-frequency power	1,8 dBm	1,8 dBm
Bluetooth version	4,2 BT signal mode	4,2 BT signal mode
Rated speed	n 8.000-20.000 min ⁻¹	n 8.000-20.000 min ⁻¹
Collet diameter	6 / 8 mm	6 / 8 mm
Accessory Abrasive grinding body diameter max.	50 mm	50 mm
Accessory Diameter max.	76 mm	76 mm
Weight according EPTA-Procedure 01/2014 (Li-Ion 2,0 Ah ... 12,0 Ah)	1,7 ... 2,8 kg	1,7 ... 2,8 kg
Recommended Ambient Operating Temperature	-18 ... +50 °C	-18 ... +50 °C
Recommended battery types	M18B...; M18HB...	M18B...; M18HB...
Recommended charger	M12-18...; M18DFC, M1418C6	M12-18...; M18DFC, M1418C6

Noise information Measured values determined according to EN 60745.

Typically, the A-weighted noise levels of the tool are:

Sound pressure level / Uncertainty K	79,3 dB (A) / 3,0 dB (A)	79,3 dB (A) / 3,0 dB (A)
Sound power level/ Uncertainty K	90,3 dB (A) / 3,0 dB (A)	90,3 dB (A) / 3,0 dB (A)

Vibration information Vibration total values (triaxial vector sum) determined according to EN 60745

Vibration emission value a _h / Uncertainty K	12,4 m/s ² / 1,5 m/s ²	9,9 m/s ² / 1,5 m/s ²
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WARNING!

The vibration and noise emission level given in this information sheet has been measured in accordance with a standardized 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 and noise 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 and noise emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration and noise 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 and/or noise such as: maintain the tool and the accessories, keep the hands warm, organization of work patterns.

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.

DIE GRINDER SAFETY WARNINGS

- Safety warnings common for grinding:**
- This power tool is intended to function as a grinder. 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 sanding, wire brushing, polishing 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.**

g) The arbour size of wheels, sanding drums or any other accessory must properly fit the spindle or collet of the power tool. 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.

h) Mandrel mounted wheels, sanding drums, cutters or other accessories must be fully inserted into the collet or chuck. If the mandrel is insufficiently held and/or the overhang of the wheel is too long, the mounted wheel may become loose and be ejected at high velocity.

i) Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, sanding drum 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.

j) 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 work-piece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

k) 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.

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

m) Always hold the tool firmly in your hand(s) during the start-up. The reaction torque of the motor, as it accelerates to full speed, can cause the tool to twist.

n) Use clamps to support workpiece whenever practical. Never hold a small workpiece in one hand and the tool in the other hand while in use. Clamping a small workpiece allows you to use your hand(s) to control the tool. Round material such as dowel rods, pipes or tubing have a tendency to roll while being cut, and may cause the bit to bind or jump toward you.

o) 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.

p) After changing the bits or making any adjustments, make sure the collet nut, chuck or any other adjustment devices are securely tightened. Loose adjustment devices can unexpectedly shift, causing loss of control, loose rotating components will be violently thrown.

q) 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.

r) 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.

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

t) 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, sanding band, 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.

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 The operator can control torque reactions or kickback forces, if proper precautions are taken.

b) 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.

c) Do not attach a toothed saw blade. Such blades create frequent kickback and loss of control.

d) Always feed the bit into the material in the same direction as the cutting edge is exiting from the material (which is the same direction as the chips are thrown). Feeding the tool in the wrong direction causes the cutting edge of the bit to climb out of the work and pull the tool in the direction of this feed.

e) When using rotary files, always have the work securely clamped. These wheels will grab if they become slightly cantled in the groove, and can kickback. When a cut-off wheel grabs, the

wheel itself usually breaks. When a rotary file, high-speed cutter or tungsten carbide cutter grabs, it may jump from the groove and you could lose control of the tool.

Safety Warnings Specific for Grinding and Abrasive Cutting-Off Operations:

f) Use only wheel types that are recommended for your power tool and only for recommended applications. For example: do not grind with the side of a cut-off wheel.

Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.

g) For threaded abrasive cones and plugs use only undamaged wheel mandrels with an unrelieved shoulder flange that are of correct size and length. Proper mandrels will reduce the possibility of breakage.

h) Do not "jam" the cut-off wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut. Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.

i) Do not position your body in line with and behind the rotating wheel. When the wheel, at the point of operation, is moving away from your body, the possible kickback may propel the spinning wheel and the power tool directly at you.

j) When wheel is pinched, snagged or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the cut-off wheel from the cut while the wheel is in motion otherwise kickback may occur. Investigate and take corrective action to eliminate the cause of wheel pinching or snagging.

k) Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut. The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.

l) Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback. Large workpieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

m) Use extra caution when making a "pocket cut" into existing walls or other blind areas. The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

ADDITIONAL SAFETY AND WORKING INSTRUCTIONS

Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries. 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.

Wear ear protectors. Exposure to noise can cause hearing loss.

Use protective equipment. Always wear safety glasses when working with the machine. The use of protective clothing is recommended, such as dust mask, protective gloves, sturdy non-slip footwear, helmet and ear defenders.

The dust produced when using this tool may be harmful to health. Do not inhale the dust. Use a dust absorption system and wear a suitable dust protection mask. Remove deposited dust thoroughly, e.g. with a vacuum cleaner.

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.

The workpiece must be fixed if it is not heavy enough to be steady.

The insertion tool is sharp-edged and can become hot during use.

WARNING! Danger of cuts and burns

- when handling the insertion tools

- when setting the device down.

Wear protective gloves when handling insertion tools.

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

Do not machine any materials that present a danger to health (e.g. asbestos).

When grinding metal, flying sparks are produced. Take care that no persons are endangered. Because of the danger of fire, no combustible materials should be located in the vicinity (spark flight zone). Do not use dust extraction.

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 allow 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.

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

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

WARNING! This device contains a button-type/coin cell lithium battery. A new or used battery can cause severe internal burns and lead to death in as little as 2 hours if swallowed or if it enters the body. Always secure the cover on the battery compartment. If it does not close securely, stop the device, remove the battery and keep it out of reach of children. If you believe that someone has swallowed the battery or that it has otherwise entered the body, seek immediate medical attention.

SPECIFIED CONDITIONS OF USE

This Straight grinder may be used for grinding wood, metal, plastic, or similar materials, especially in hard accessible corners and places.

Please refer to the instructions supplied by the accessory manufacturer.

The machine is suitable only for working without water.

RESIDUAL RISK

Even when the product is used as prescribed, it is still impossible to completely eliminate certain residual risk factors. The following hazards may arise in use and the operator should pay special attention to avoid the following:

- Injury caused by vibration. Hold the product by designated handles and restrict working time and exposure.
- Injury due to flying debris. Wear eye protection, heavy long trousers, gloves and substantial footwear at all times.
- Inhalation of toxic dusts.

NOTES FOR LI-ION BATTERIES

Use of Li-Ion 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.

Battery protection for Li-Ion batteries

In extremely high torque, binding, stalling and short circuit situations that cause high current draw, the tool will vibrate for about 5 seconds, the fuel gauge will flash, and then the tool will turn OFF.

To reset, release the trigger. Under extreme circumstances, the internal temperature of the battery pack could raise too much. If this happens, the fuel gauge will flash until the battery pack cooled down. After the lights go off, the work may continue.

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.

ELECTRONICS

The built-in electronic will keep a constant speed even under increased load.

In case of overload, the rotational speed is being reduced until machine stops.

The machine has an overload and anti-kickback safety function and stops if it is overloaded.

Please note that the machine will automatically accelerate back to its original operating speed if the load is removed from it.

After it has reached its operating speed the machine is ready for use again.

RESTART CUTOFF

A zero-voltage switch prevents the machine from restarting after a power cut.

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

SMOOTH START

Electronic smooth start for save use prevents jerky run-up of the machine.

ONE-KEY™

To learn more about the ONE-KEY functionality for this tool, please reference the Quick Start guide included with this product or go to milwaukeeetool.com/One-Key. To download the ONE-KEY app, visit the App Store or Google Play from your smart device.

Also, when the product experiences ESD, the Bluetooth communication will be disconnected. It needs to be reset manually to recover.

ONE-KEY™ indicator

Solid Blue: Wireless mode is active and ready to be configured via the ONE-KEY™ app.

Blinking Blue: Tool is actively communicating with the ONE-KEY™ app.

Blinking Red: Tool is in security lockout and can be unlocked by the owner via the ONE-KEY™ app.

CLEANING

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

MAINTENANCE

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.

SYMBOLS

	Please read the instructions carefully before starting the machine.
	CAUTION! WARNING! DANGER!
	Remove the battery pack before starting any work on the appliance.
	Do not swallow the coin cell battery!
	Always wear goggles when using the machine.
	Wear a suitable dust protection mask.
	Rotation direction
	Do not dispose of waste batteries, waste electrical and electronic equipment as unsorted municipal waste. Waste batteries and waste electrical and electronic equipment must be collected separately. Waste batteries, waste accumulators and light sources have to be removed from equipment. Check with your local authority or retailer for recycling advice and collection point. According to local regulations retailers may have an obligation to take back waste batteries and Waste electrical and electronic equipment free of charge. Your contribution to re-use and recycling of waste batteries and waste electrical and electronic equipment helps to reduce the demand of raw materials. Waste batteries, in particular containing lithium and waste Electrical and electronic equipment contain valuable, recyclable materials, which can adversely impact the environment and the human health, if not disposed of in an environmentally compatible manner. Delete personal data from waste equipment, if any.
	Rated speed
	Voltage
	Direct Current
	European Conformity Mark
	British Conformity Mark
	Ukraine Conformity Mark
	EurAsian Conformity Mark

TECHNISCHE DATEN	M18 FDGROVB	M18 FDGROVPDB
Bauart	Stabschleifer	Stabschleifer
Produktionsnummer	4918 20 01 XXXXXX MJJJJ	4918 30 01 XXXXXX MJJJJ
Spannung Wechselakku	18 V $\approx$	18 V $\approx$
Bluetooth-Frequenzband (Frequenzbänder)	2402-2480 MHz	2402-2480 MHz
Hochfrequenzleistung	1,8 dBm	1,8 dBm
Bluetooth-Version	4,2 BT signal mode	4,2 BT signal mode
Nennndrehzahl	n 8.000-20.000 min ⁻¹	n 8.000-20.000 min ⁻¹
Spannzangen- $\varnothing$	6 / 8 mm	6 / 8 mm
Zubehör Schleifkörper Durchmesser max.	50 mm	50 mm
Zubehör Durchmesser max.	76 mm	76 mm
Gewicht nach EPTA-Prozedur 01/2014 (Li-Ion 2,0 Ah ... 12,0 Ah)	1,7 ... 2,8 kg	1,7 ... 2,8 kg
Empfohlene Umgebungstemperatur für den Betrieb	-18 ... +50 °C	-18 ... +50 °C
Empfohlene Akku Typen	M18B...; M18HB...	M18B...; M18HB...
Empfohlene Ladegeräte	M12-18...; M18DFC, M1418C6	M12-18...; M18DFC, M1418C6
Geräuschinformation Messwerte ermittelt entsprechend EN 60745. Der A-bewertete Geräuschpegel des Gerätes beträgt typischerweise:		
Schalldruckpegel / Unsicherheit K	79,3 dB (A) / 3,0 dB (A)	79,3 dB (A) / 3,0 dB (A)
Schalleistungspegel/ Unsicherheit K	90,3 dB (A) / 3,0 dB (A)	90,3 dB (A) / 3,0 dB (A)
Vibrationsinformationen Schwingungsgesamtwerte (Vektor-summe dreier Richtungen) ermittelt entsprechend EN 60745.		
Schwingungsemissionswert a _h / Unsicherheit K	12,4 m/s ² / 1,5 m/s ²	9,9 m/s ² / 1,5 m/s ²

⚠️ **WARNUNG!**

Die angegebenen Schwingungsgesamtwerte und Geräuschemissionswerte wurden nach einem genormten Messverfahren gemäß EN 60745 gemessen und können für den Vergleich von Elektrowerkzeugen miteinander verwendet werden. Sie können für eine vorläufige Einschätzung der Belastung verwendet werden. Der angegebene Schwingungs- und Geräuschemissionspegel repräsentiert die hauptsächlichsten Anwendungen des Elektrowerkzeugs. Wenn allerdings das Elektrowerkzeug für andere Anwendungen, mit abweichenden Einsatzwerkzeugen oder ungenügender Wartung eingesetzt wird, können sich die Schwingungs- und Geräuschemissionen unterscheiden. Dies kann deren Wirkung über den gesamten Arbeitszeitraum deutlich erhöhen. Bei der Abschätzung der Belastung durch Schwingungen und Lärm sollten auch die Zeiten berücksichtigt werden, in denen das Elektrowerkzeug ausgeschaltet ist oder zwar läuft, aber keine tatsächliche Arbeit verrichtet wird. Dies kann deren Wirkung über den gesamten Arbeitszeitraum deutlich reduzieren. Legen Sie zusätzliche Sicherheitsmaßnahmen zum Schutz des Bedieners vor den Auswirkungen von Schwingungen- und / oder Lärm fest, wie z. B.: Wartung des Werkzeugs und des Zubehörs, Warmhalten der Hände, Organisation der Arbeitsabläufe.

⚠️ WARNUNG! Lesen Sie alle Sicherheitshinweise, Anweisungen, Bebilderungen und technischen Daten, mit denen dieses Elektrowerkzeug versehen ist. Wenn Sie die folgenden Anweisungen nicht beachten, kann es zu elektrischem Schlag, Feuer und/oder schweren Verletzungen kommen.
Bewahren Sie alle Sicherheitshinweise und Anweisungen für die Zukunft auf.

SICHERHEITSHINWEISE FÜR STABSCHLEIFER

- a) **Sicherheitswarnungen für Schleifarbeiten:**
- b) **Dieses Elektrowerkzeug ist zur Verwendung als Schleifgerät bestimmt. Lesen Sie alle Sicherheitshinweise, Anweisungen, Bebilderungen und technischen Daten, mit denen dieses Elektrowerkzeug versehen ist. Wenn Sie die folgenden Anweisungen nicht beachten, kann es zu elektrischem Schlag, Feuer und/oder schweren Verletzungen kommen.**
- c) **Mit diesem Elektrowerkzeug sollten keine Arbeiten wie Schmiegeln, Drahtbürsten, Polieren oder Trennschleifen durchgeführt werden.** Verwendungen, für die das Elektrowerkzeug nicht vorgesehen ist, können Gefährdungen und Verletzungen verursachen.
- d) **Verwenden Sie kein Zubehör, das vom Hersteller nicht speziell für dieses Elektrowerkzeug vorgesehen und empfohlen wurde.** Nur weil Sie das Zubehör an Ihrem Elektrowerkzeug befestigen können, garantiert das keine sichere Verwendung.
- e) **Die zulässige Drehzahl des Einsatzwerkzeugs muss mindestens so hoch sein wie die auf dem Elektrowerkzeug**

- angegebene Höchstdrehzahl.** Zubehör, das sich schneller als zulässig dreht, kann zerbrechen und umherfliegen.
- f) **Außendurchmesser und Dicke des Einsatzwerkzeugs müssen den Maßangaben Ihres Elektrowerkzeugs entsprechen.** Falsch bemessene Einsatzwerkzeuge können nicht ausreichend abgeschirmt oder kontrolliert werden.
 - g) **Schleifscheiben, Schleifwalzen oder anderes Zubehör müssen genau auf die Schleifspindel oder Spannzange Ihres Elektrowerkzeugs passen.** Einsatzwerkzeuge, die nicht genau am Einsatzwerkzeug befestigt werden, drehen sich ungleichmäßig, vibrieren sehr stark und können zum Verlust der Kontrolle führen.
 - h) **Auf einem Dorn montierte Scheiben, Schleifzylinder, Schneidwerkzeuge oder anderes Zubehör müssen vollständig in die Spannzange oder das Spannfutter eingesetzt werden.** Der „Überstand“ bzw. der frei liegende Teil des Dorns zwischen Schleifkörper und Spannzange oder Spannfutter muss minimal sein. Wird der Dorn nicht ausreichend gespannt oder steht der Schleifkörper zu weit vor, kann sich das Einsatzwerkzeug lösen und mit hoher Geschwindigkeit ausgeworfen werden.
 - i) **Verwenden Sie keine beschädigten Einsatzwerkzeuge.** Kontrollieren Sie vor jeder Verwendung Einsatzwerkzeuge wie Schleifscheiben auf Absplitterungen und Risse, Schleifwalzen auf Risse, Verschleiß oder starke Abnutzung, Drahtbürsten auf lose oder gebrochene Drähte. Wenn das Elektrowerkzeug oder das Einsatzwerkzeug herunterfällt, überprüfen Sie, ob es beschädigt ist, oder verwenden Sie ein unbeschädigtes Einsatzwerkzeug. Wenn Sie das Einsatzwerkzeug kontrolliert und eingesetzt haben, halten Sie und in der Nähe befindliche