



Nothing but **HEAVY DUTY.**<sup>TM</sup>



## **M18 BDD M18 BPD**

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User Manual

操作指南

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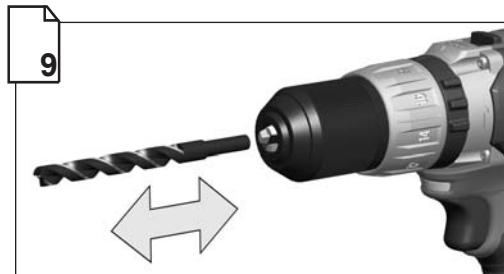
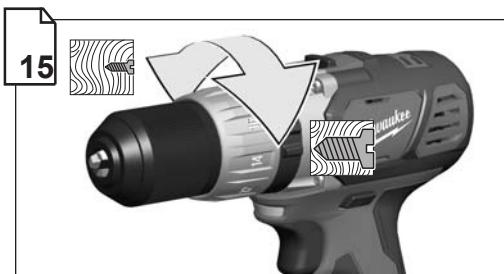
사용시 주의사항

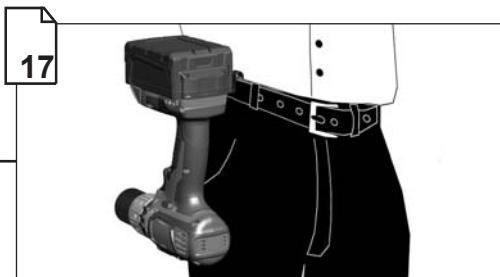
คำสั่งเดิม

Manual pengguna









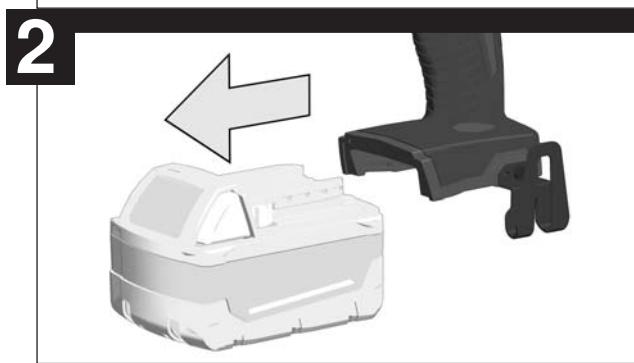
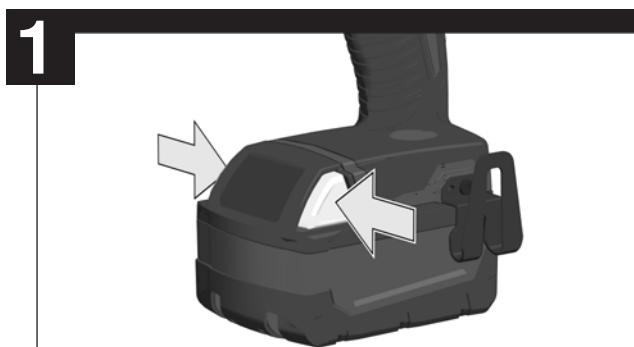
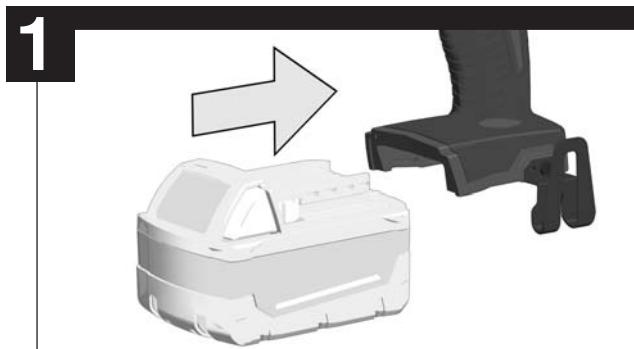
Remove the battery pack before starting any work on the machine.  
在機器上做任何調整前，請先移除電池。

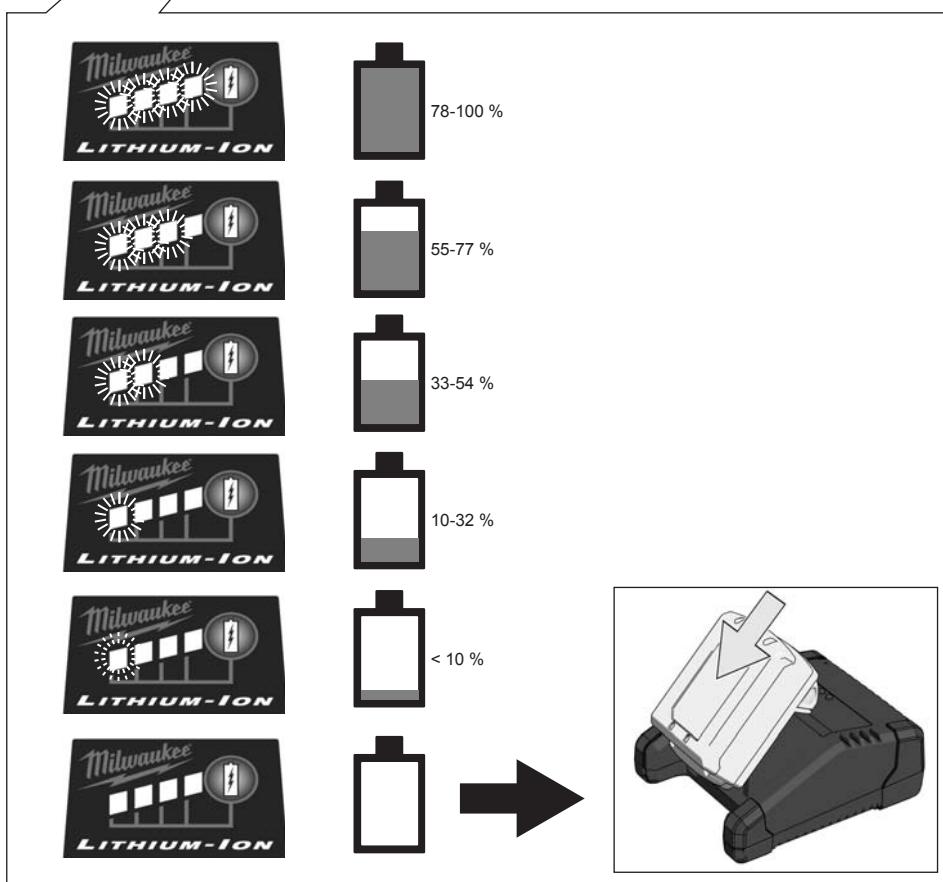
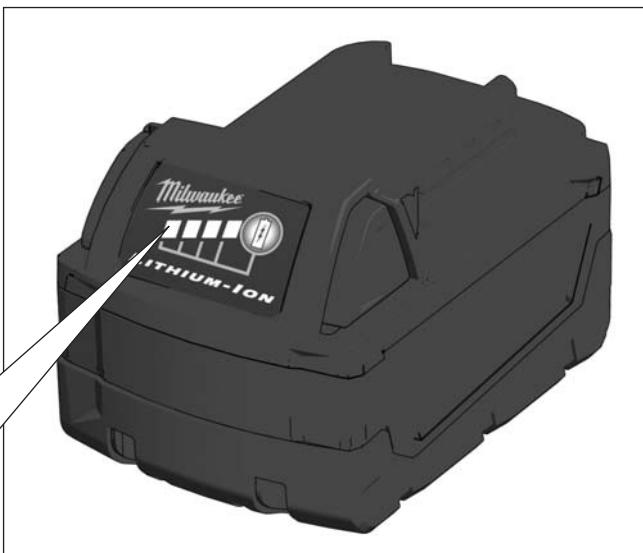
在机器上进行任何修护工作之前，先拿出蓄电池。

기기를 사용하지 않을 때는 배터리를 빼어두십시오.

ถอนด้วยแบบเดื่อไว้ก่อนที่จะเริ่มการใช้งานได้ฯ

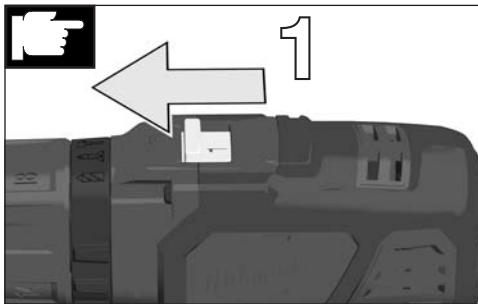
Keluarkan pek bateri sebelum memulakan sebarang kerja pada mesin.







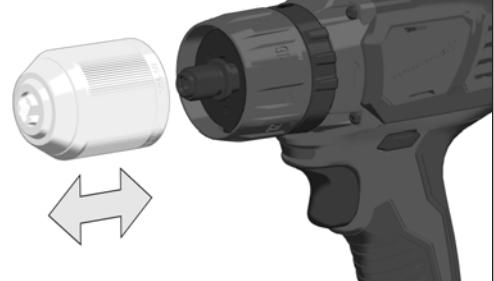
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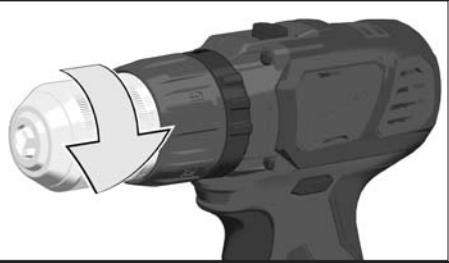
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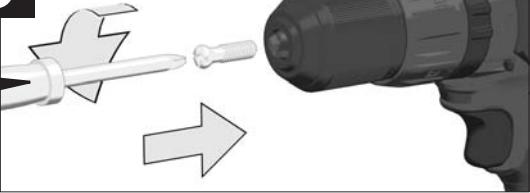
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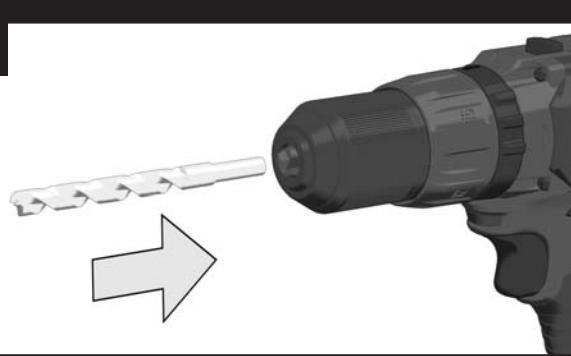


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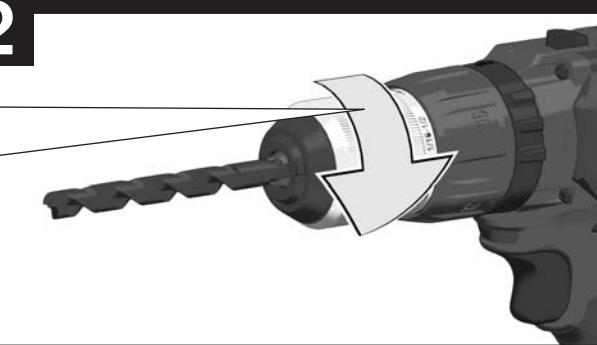
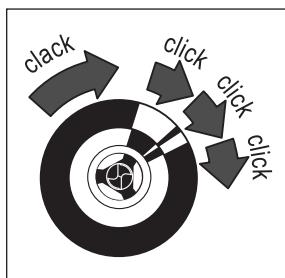




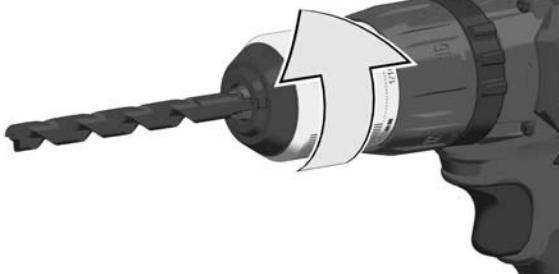
**1**



**2**



**1**

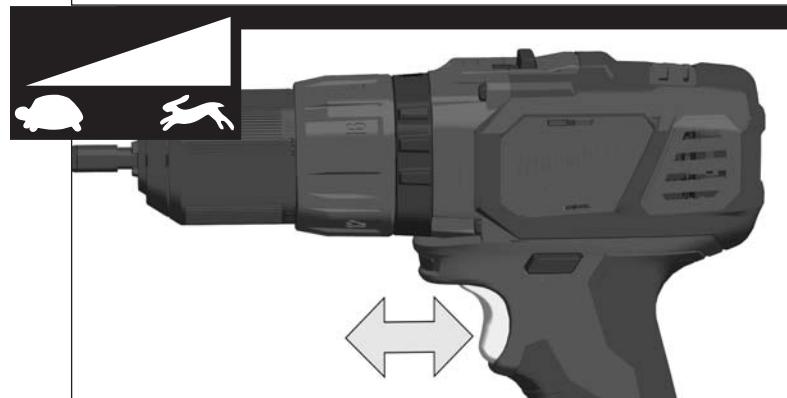
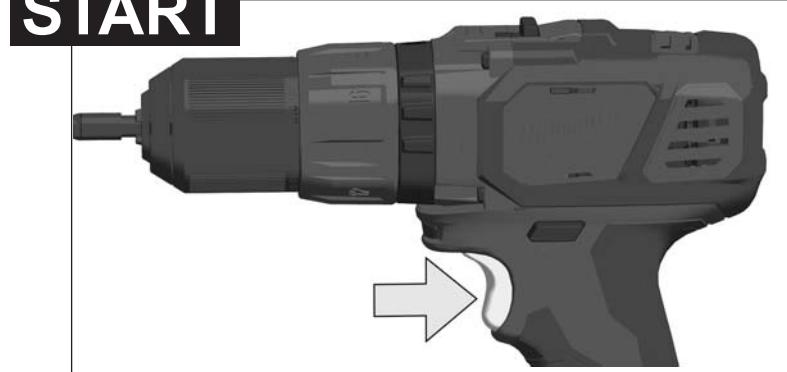


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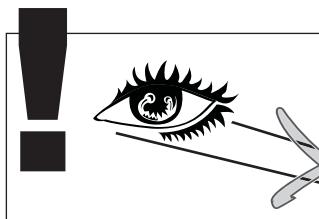


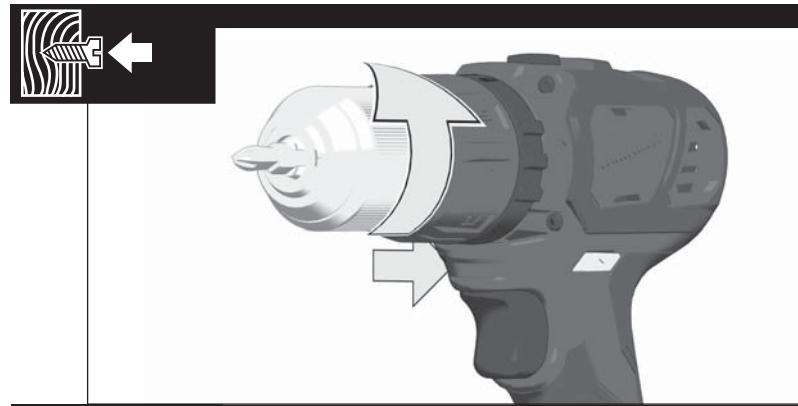
**START**



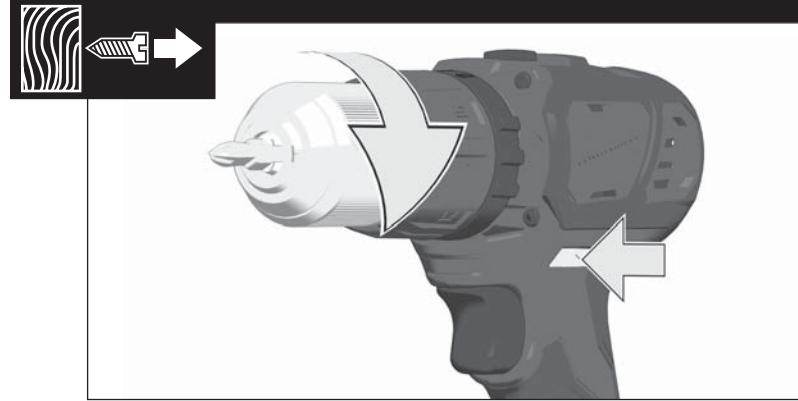
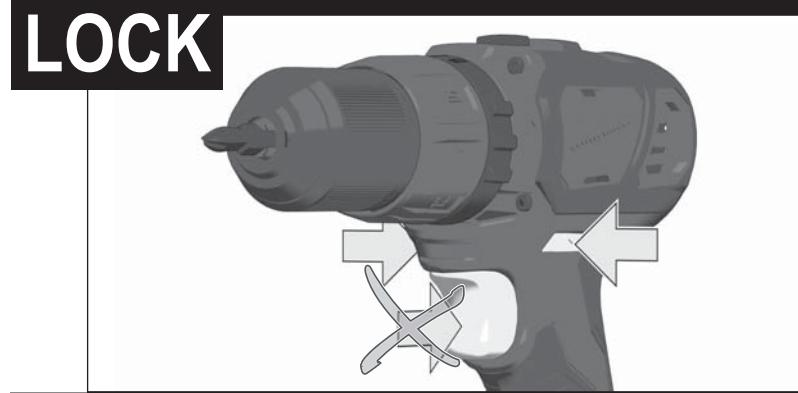
**STOP**

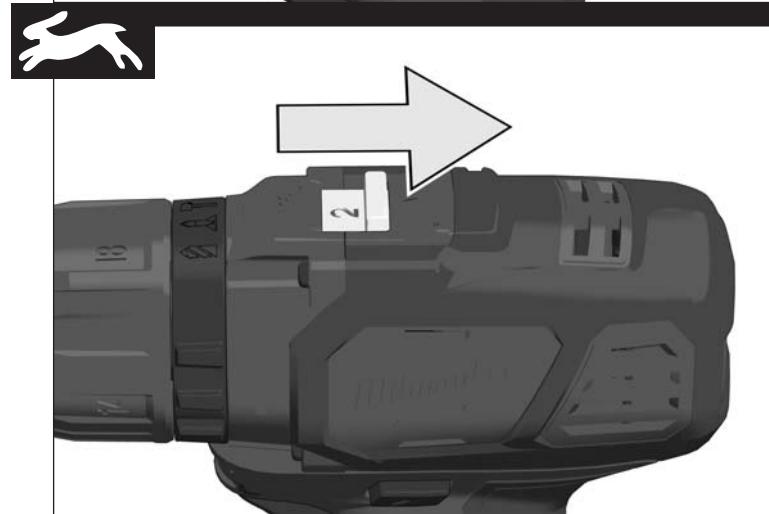
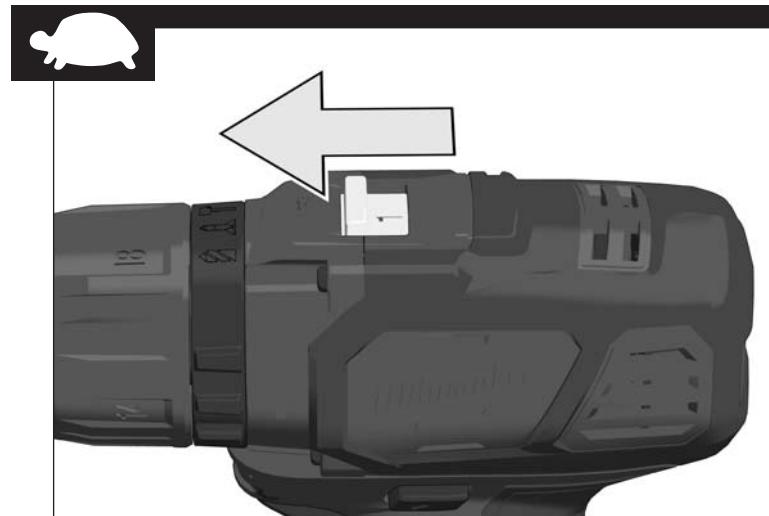




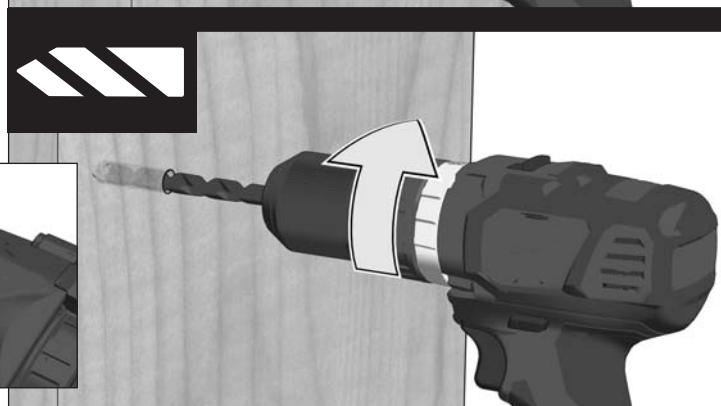
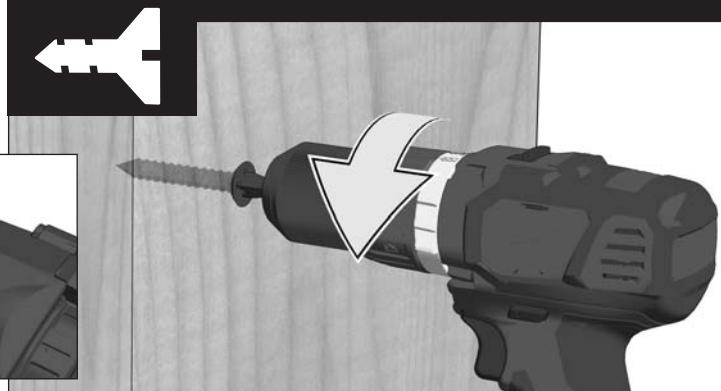
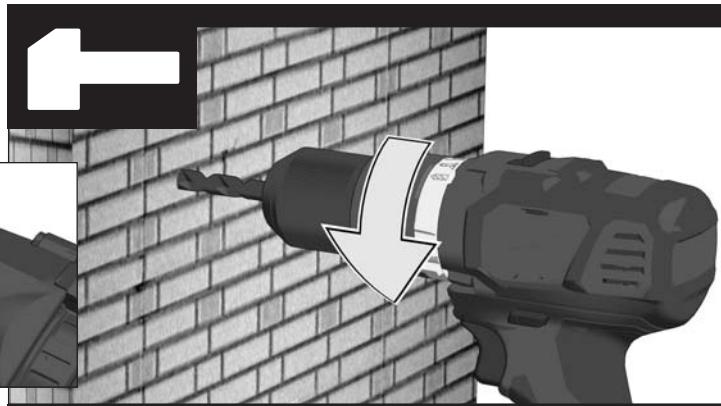


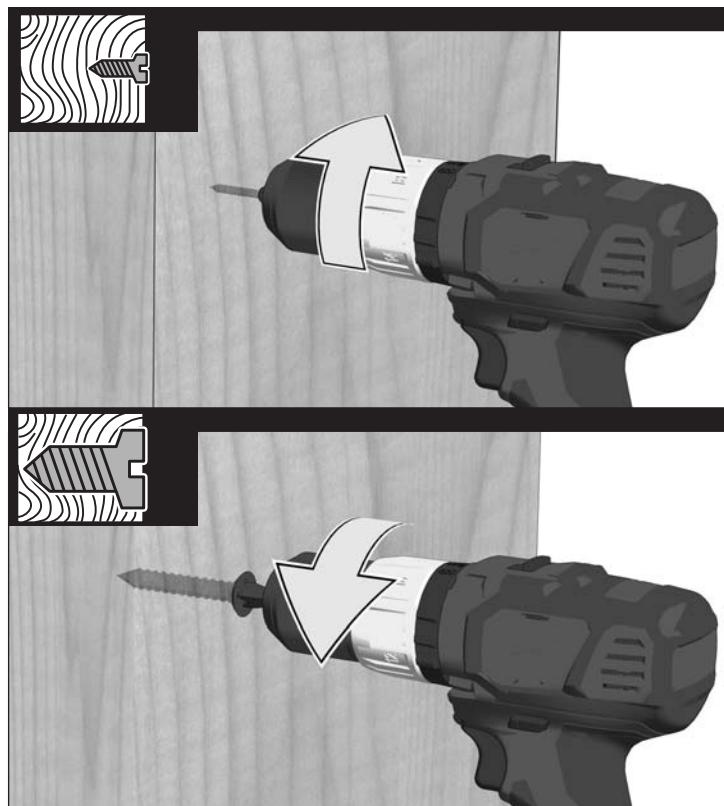
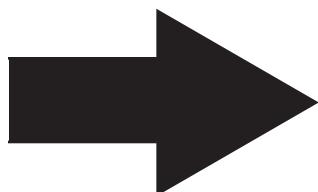
**LOCK**





**M18 BPD**





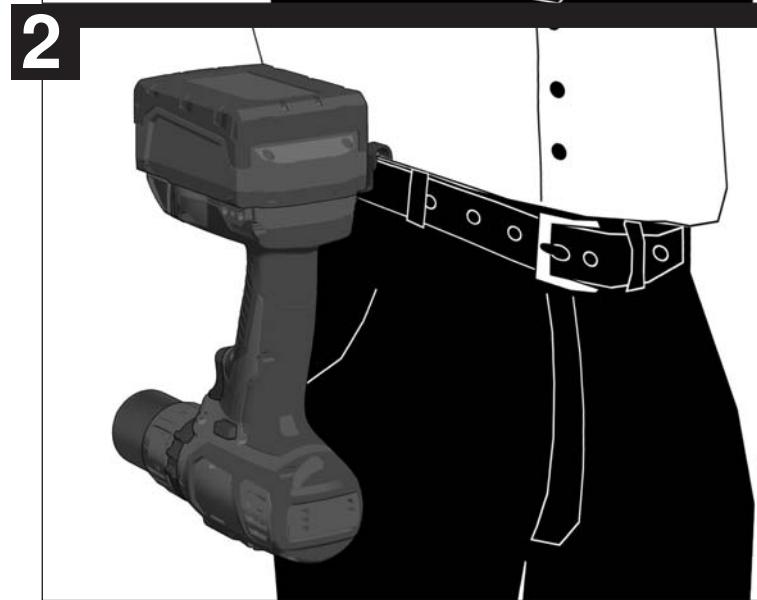
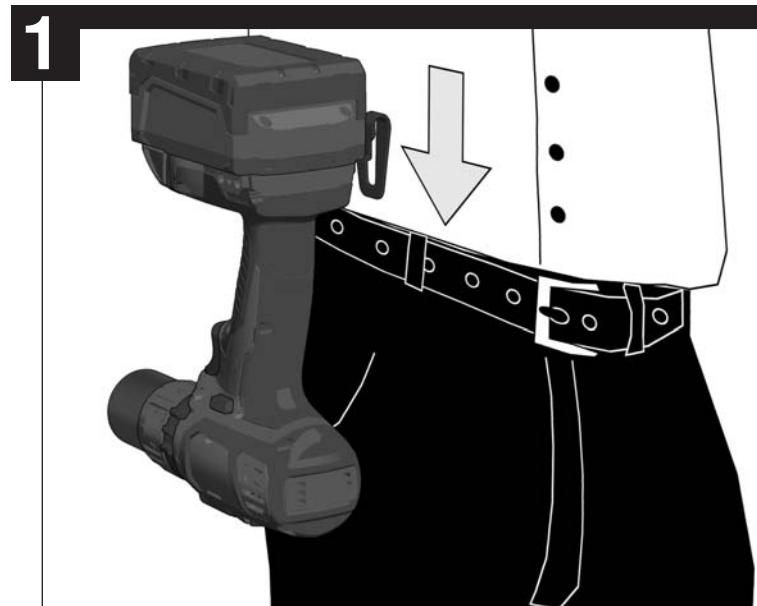
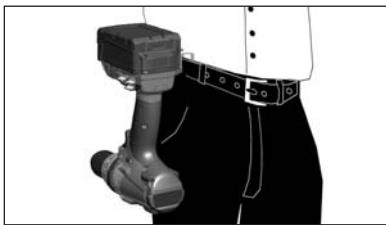


1



2





Drilling capacity in steel .....	13 mm .....	13 mm
Drilling capacity in wood .....	38 mm .....	38 mm
Drilling capacity in brick and tile .....	16 mm .....	16 mm
Wood screws (without pre-drilling) .....	7 mm .....	7 mm
No-load speed 1st gear .....	0-450 min <sup>-1</sup> .....	0-450 min <sup>-1</sup>
No-load speed 2nd gear .....	0-1800 min <sup>-1</sup> .....	0-1800 min <sup>-1</sup>
Impact rate 1st gear .....	- min <sup>-1</sup> .....	0-7200 min <sup>-1</sup>
Impact rate 2nd gear .....	- min <sup>-1</sup> .....	0-28800 min <sup>-1</sup>
Torque with battery *1 (1.5 Ah / 2.0 Ah) .....	50 Nm .....	50 Nm
Torque with battery *1 (3.0 Ah / 4.0 Ah) .....	60 Nm .....	60 Nm
Battery voltage .....	18 V .....	18 V
Drill chuck range .....	1.5-13 mm .....	1.5-13 mm
Weight according EPTA-Procedure 01/2003 (1.5 Ah / 2.0 Ah) .....	1.8 kg .....	1.9 kg
Weight according EPTA-Procedure 01/2003 (3.0 Ah / 4.0 Ah) .....	2.0 kg .....	2.1 kg

#### Noise/vibration information

Measured values determined according to EN 60 745.

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

Sound pressure level (K=3dB(A)) .....	84,7 dB (A) .....	84,7 dB (A)
Sound power level (K=3dB(A)) .....	95,7 dB (A) .....	95,7 dB (A)

#### Always wear ear protectors!

Total vibration values (vector sum in the three axes) determined according to EN 60745.

Vibration emission value  $a_v$

Impact drilling into concrete .....	13 m/s <sup>2</sup> .....	13 m/s <sup>2</sup>
Uncertainty K= .....	1,5 m/s <sup>2</sup> .....	1,5 m/s <sup>2</sup>
Drilling into metal .....	0,95 m/s <sup>2</sup> .....	0,95 m/s <sup>2</sup>
Uncertainty K= .....	1,5 m/s <sup>2</sup> .....	1,5 m/s <sup>2</sup>
Screw driving without impact .....	0,66 m/s <sup>2</sup> .....	0,66 m/s <sup>2</sup>
Uncertainty K= .....	1,5 m/s <sup>2</sup> .....	1,5 m/s <sup>2</sup>

\*1 Measured according to Milwaukee standard N 877318

#### 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.**

#### DRILL DRIVER SAFETY WARNINGS

**Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.

**Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.

**Hold power tool by insulated gripping surfaces, 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.

**Hold power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring.** Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

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

When working in walls ceiling, or floor, take care to avoid electric cables and gas or waterpipes.

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

Do not dispose of used battery packs in the household refuse or by burning them. Milwaukee Distributors offer to retrieve old batteries to protect our environment.

Do not store the battery pack together with metal objects (short circuit risk).

Use only System C18 chargers for charging System C18 battery packs. Do not use battery packs from other systems.

Battery acid may leak from damaged batteries under extreme load or extreme temperatures. In case of contact with battery acid wash it off immediately with soap and water. In case of eye contact rinse thoroughly for at least 10 minutes and immediately seek medical attention.

Always use a side handle when using a 9.0 Ah or higher capacity battery pack; the output torque of some tools may increase. If your drill/driver did not come with a side handle, use the spare part side handle (see explosion drawing of the tool).

#### SPECIFIED CONDITIONS OF USE

The electronic battery percussion drill/screwdriver may be used for drilling, percussion drilling, as well as screwdriving for independent use away from mains supply.

Do not use this product in any other way as stated for normal use.

## BATTERIES

New battery packs reach full loading capacity after 4 - 5 chargings and dischargings. 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 used.

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 PACK PROTECTION

In extremely high torque, binding, stalling and short circuit situations that cause high current draw, the tool will vibrate for about 2 seconds and then the tool will turn OFF.

To reset, release the trigger.

Under extreme circumstances, the internal temperature of the battery could become to high. If this happens, the battery will shut down.

Place the battery on the charger to charge and reset it.

## MAINTENANCE

Use only Milwaukee accessories and 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 machine type printed as well as the six-digit No. on the label and order the drawing at your local service agents.

## SYMBOLS



Please read the instructions carefully before starting the machine.



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



Do not dispose of electric tools together with household waste material! In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.