milwaukee M12 FID2-0 Sub Compact Impact Driver Drill Instruction Manual

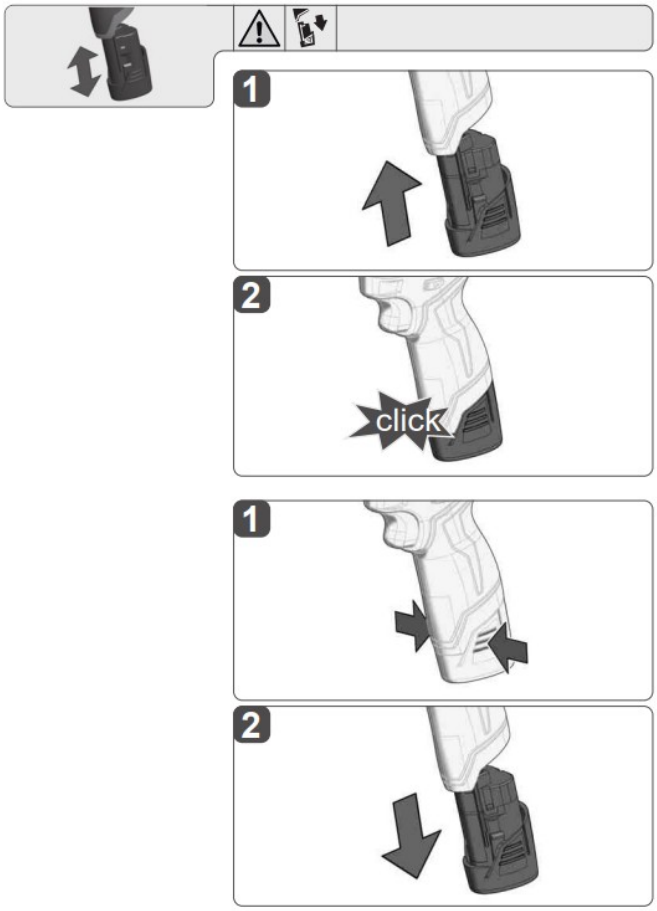
Nothing but HEAVY DUTY

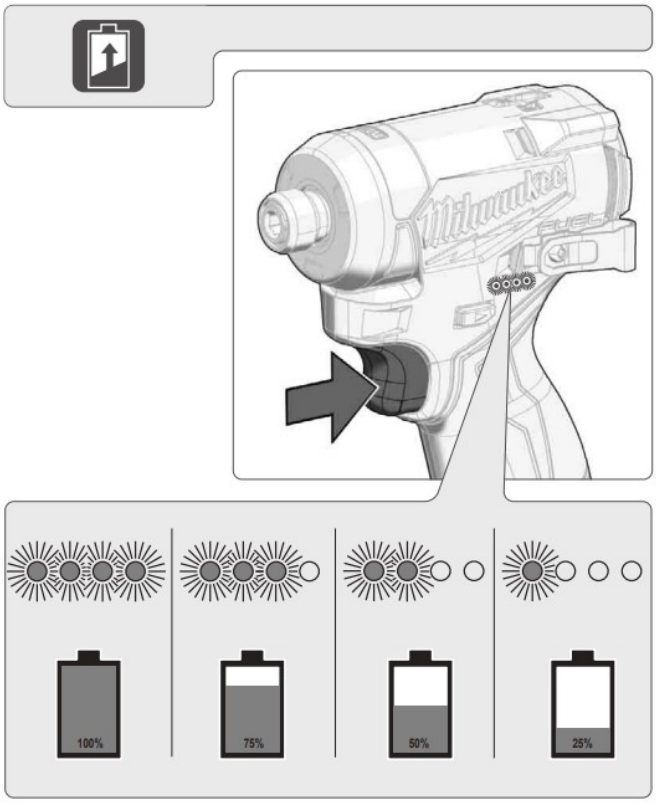
Contents

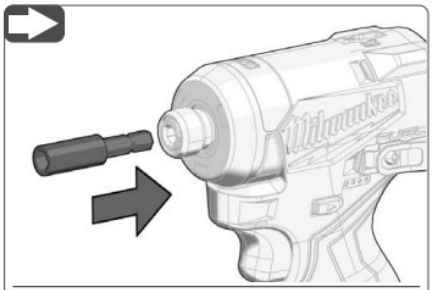
M12 FID2-0 Sub Compact Impact Driver Drill

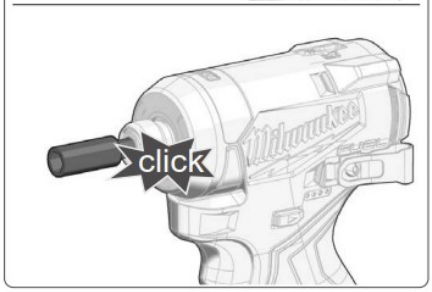
M12 FID2
Original instructions

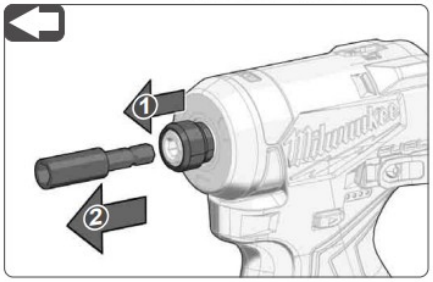
Remove the battery pack before starting any work on the machine.

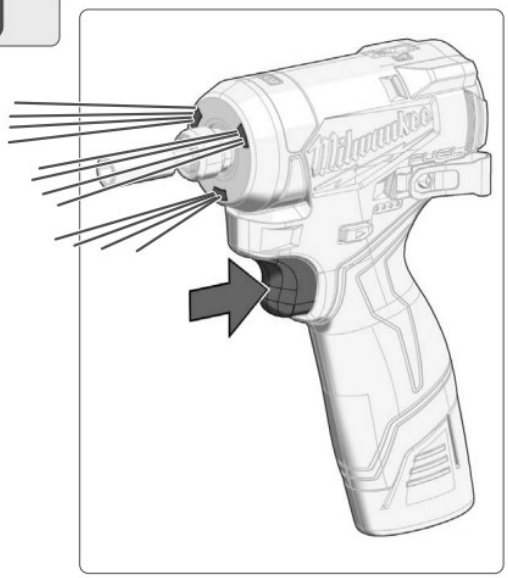


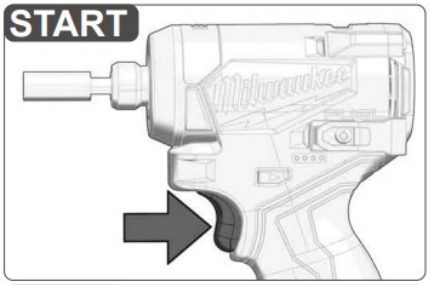


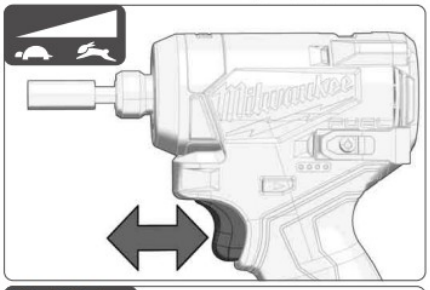


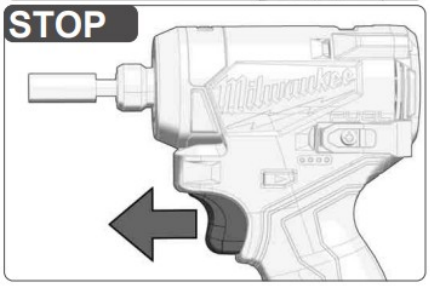


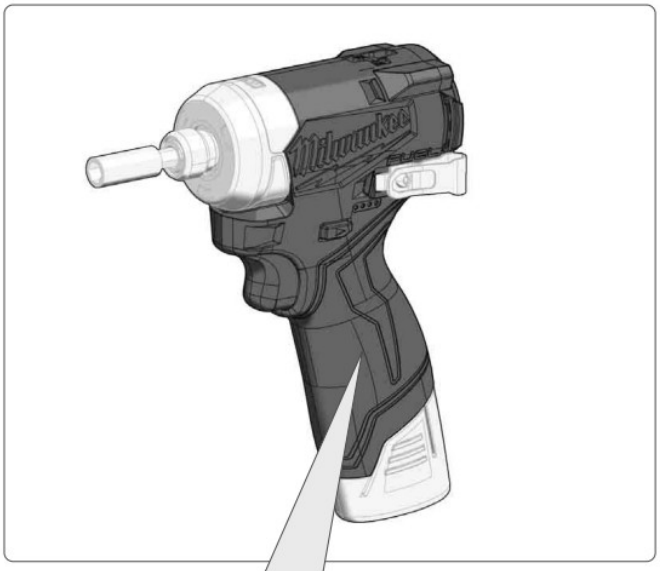




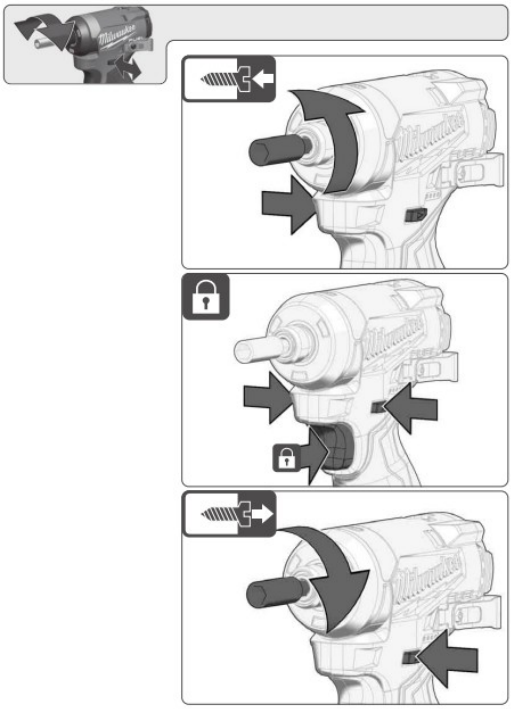


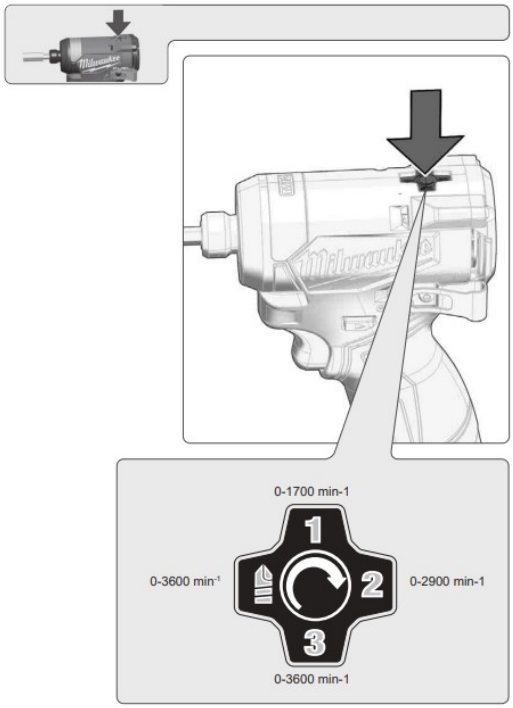


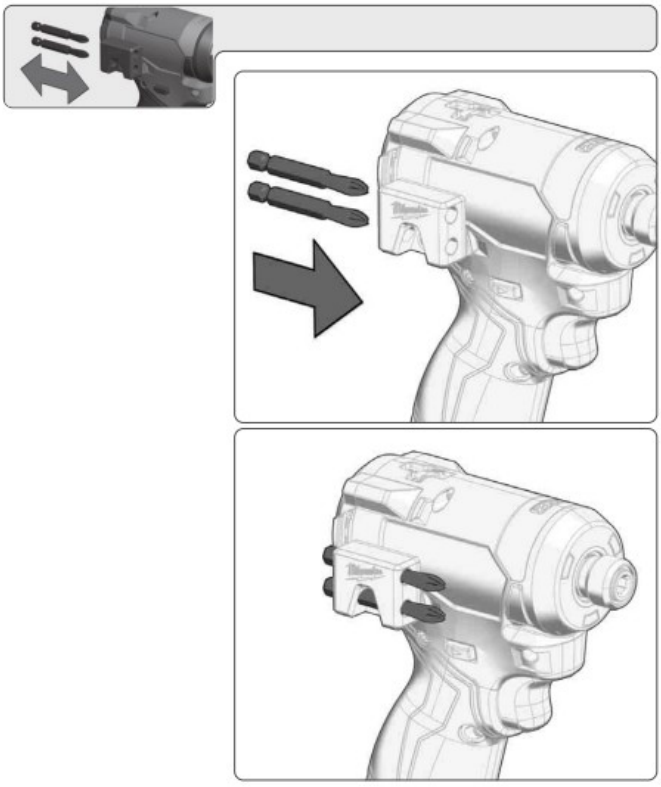


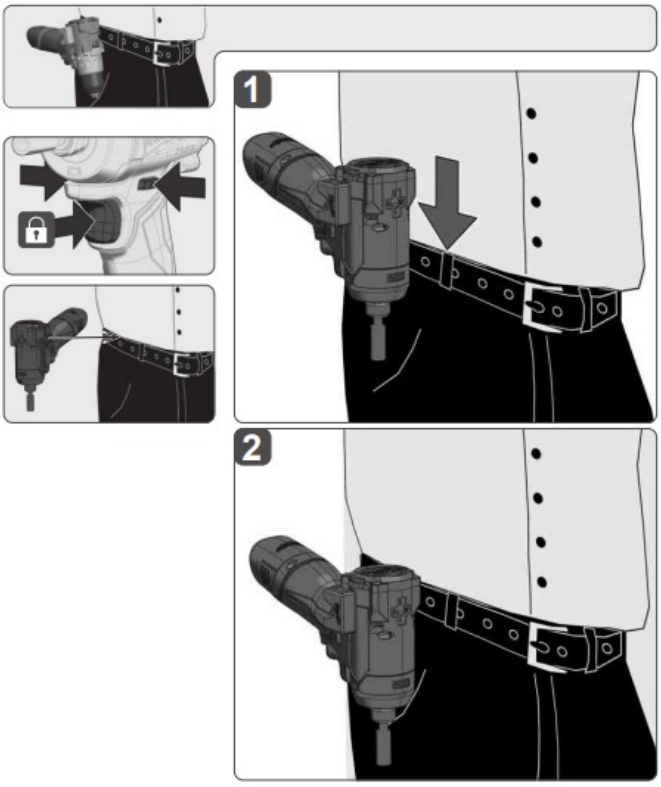


Insulated gripping surface









Not included, available as accessory

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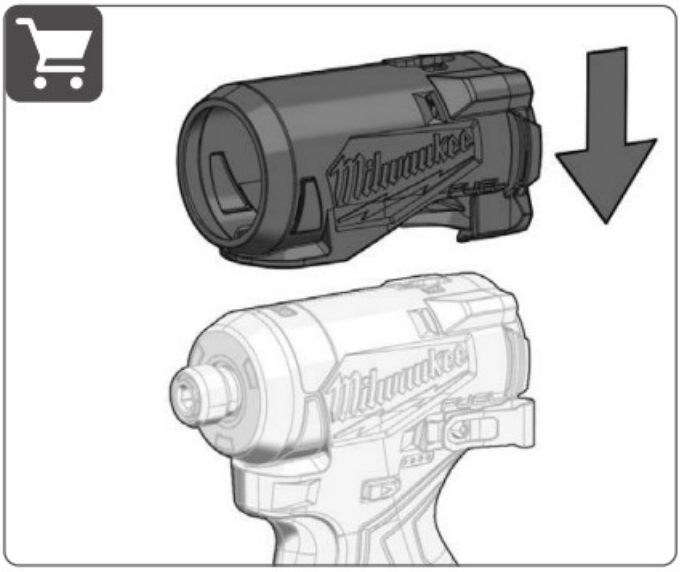

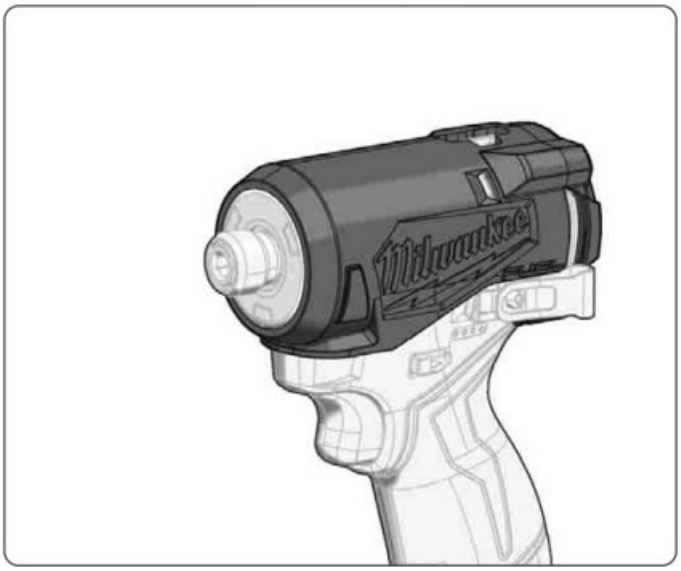

TECHNICAL DATA	M12 FID2
Type	Cordless Impact Screwdriver
Production code	4812 94 01 XXXXXX MJJJJ
Battery volt	12 V
No-load speed mode 1 / 2 / 3 /	12 V 0–1700 / 0–2900 / 0–3600 / 0–360 min 1
Impact range max.	0–4000 min 1
Torque max.	170 Nm
Tool reception	1/4″ (6mm) HEX
Max. diameter bolt / nut	M14
Weight according EPTA-Procedure 01/2014 (2,0…6,0 Ah)	0,91…1,1 kg
Recommended ambient operating temperature	-18…+50 °C
Recommended battery types	M12B…
Recommended charger	M12-18C, M12-18AC, M12-18FC, C12C

Noise Information
Measured values determined according to EN 62841.
Typically, the A-weighted noise levels of the tool are:

Sound pressure level / Uncertainty K	99,25 dB(A) / 3 dB(A)
Sound power level / Uncertainty K	110,25 dB(A) / 3 dB(A)

Vibration Information
Total vibration values (vector sum in the three axes) determined according to EN 62841.

Vibration emission value a / Uncertainty K	14,35 m/s 2 / 1,5m/s 2

WARNING

The vibration and noise emission level given in this information sheet has been measured in accordance with a standardized 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 and noise emission level represents the main applications of the tool. However if the tool is used for diff erent applications, with diff erent accessories or poorly maintained, the vibration and noise emission may diff er. This may signifi cantly 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 switchedoff or when it is running but not actually doing the job. This may signifi cantly reduce the exposure level over the total working period.
Identify additional safety measures to protect the operator from the eff ects 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, For an optimum life-time, the batteries have to be

fully illustrations and specifi cations provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fi re and/or serious injury.
Save all warnings and instructions for future reference.

IMPACT DRIVER SAFETY WARNINGS
Wear ear protectors. Exposure to noise can cause hearing loss.
Hold the 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.

ADDITIONAL SAFETY AND WORKING INSTRUCTIONS
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. Wear a suitable dust protection mask.
Do not machine any materials that present a danger to health (e.g. asbestos).
Switch the device off immediately if the insertion tool stalls! Do not switch the device on again while the insertion tool is stalled, as doing so could trigger a sudden recoil with a high reactive force. Determine why the insertion tool stalled and rectify this, paying heed to the safety instructions.
The possible causes may be:

- it is tilted in the workpiece to be machined
- it has pierced through the material to be machined
- the power tool is overloaded

Do not reach into the machine while it is running.

The insertion tool may become hot during use.

WARNING! Danger of burns

- when changing tools
- when setting the device down

Chips and splinters must not be removed while the machine is running.
When working in walls ceiling, or fl oor, take care to avoid lectric cables and gas or waterpipes.
Clamp your workpiece with a clamping device. Unclamped workpieces can cause severe injury and damage.
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 off er to retrieve old batteries to protect our environment.
Do not store the battery pack together with metal objects (short circuit risk).
Use only System M12 chargers for charging System M12 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.
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.
Warof eye contact rinse thoroughly for at least 10 minutes and immediately seek medical attention.
Warning! To reduce the risk of fi re, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fl uid or allow a fl uid to fl ow inside them. Corrosive or conductive fl uids, such as seawater, certain industrial chemicals, and bleach or bleach containing products, etc., can cause a short circuit.ning! To reduce the risk of fi re, personal injury, and product damage due to a short circuit, never immerse your tool, battery pack or charger in fl uid or allow a fl uid to fl ow
inside them. Corrosive or conductive fl uids, such as seawater, certain industrial chemicals, and bleach or bleach containing products, etc., can cause a short circuit.

SPECIFIED CONDITIONS OF USE
The cordless impact wrench can be used to tighten and loosen nuts and bolts wherever no mains connection is available.
Do not use this product in any other way as stated for normal use.

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.
- Exposure to noise can cause hearing injury.
  Wear ear protection and limit exposure.
- Injury due to fl ying debris
  Wear eye protection, heavy long trousers, gloves and substancial footwear at all times.
- Inhalation of toxic dusts.

OPERATION
Note: It is recommended after fastening to always check the torque with a torque wrench.
The fastening torque is aff ected by a wide variety of factors including the following.

- State of battery charge – When the battery is discharged voltage will drop and the fastening torque will be reduced.
- Operation at speeds – Operating the tool at low speeds will cause a reduction in fastening torques.
- Fastening position – Holding the tool or the driving fastener in various angles will aff ect the torque.
- Drive accessory/socket – Failure to use the correct size accessory or socket, or a non-impact rated accessory may cause a reduction in the fastening torque.
- Use of accessories and extensions – Depending on the accessory or extension fi tment can reduce the fastening force of the impact wrench.
- Bolt/Nut – Fastening torques may diff er according to the diameter of the nut or bolt, the class of nut/bolt and the length of nut/bolt.
- Condition of the fastener – Contaminated, corroded, dry or lubricated fasteners may vary the fastening torques.
- Condition and base material – The base material of the fastener and any component in between the surfaces may eff ect the fastening torque (dry or lubricated base, soft or hard base, disc, seal or washer between fastener and base material).

IMPACTING TECHNIQUES
The longer a bolt, screw, or nut is impacted, the tighter it will become.
To help prevent damaging the fasteners or workpieces, avoid excessive impacting.
Be particularly careful when impacting smaller fasteners because they require less impacting to reach optimum torque.
Practice with various fasteners, noting the length of time required to reach the desired torque.
Check the tightness with a hand-torque wrench.
If the fasteners are too tight, reduce the impacting time.
If they are not tight enough, increase the impacting time.
Oil, dirt, rust or other matter on the threads or under the head of the fastener aff ects the degree of tightness.
The torque required to loosen a fastener averages 75% to
80% of the tightening torque, depending on the condition of the contacting surfaces.

On light gasket jobs, run each fastener down to a relatively light torque and use a hand torque wrench for fi nal tightening.

DRIVE CONTROL

 The drive control button is used to adjust the rotation speed (RPM) for the application.

In  self tapping screw mode, the tool will drive at full RPM until the screw taps. Then, for better control, the RPM will slow as the screw seats to the workpiece.

NOTES FOR LI-ION BATTERIES

Use of Li-Ion batteries

Batteries 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. Avoid extended exposure to heat or sunshine (risk of overheating).
The contacts of chargers and batteries must be kept clean.
For an optimum life-time, the batteries have to be fully charged, after used.
To obtain the longest possible battery life remove the battery from the charger once it is fully charged.
For battery storage longer than 30 days:
Store the battery where the temperature is below 27°C and away from moisture
Store the battery in a 30% – 50% charged condition
Every six months of storage, charge the battery as normal.
Battery protection for Li-Ion Akkus
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 fl ash,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 fl ash until the battery pack cooled down.
After the lights go off , the work may continue.
Transport of 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

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Documents / Resources

	milwaukee M12 FID2-0 Sub Compact Impact Driver Drill [pdf] Instruction Manual M12 FID2-0 Sub Compact Impact Driver Drill, M12 FID2-0, Sub Compact Impact Driver Drill, Compact Impact Driver Drill, Impact Driver Drill, Driver Drill