Nothing but **HEAVY DUTY.®**



M12 FCIWF38G3
M12 FCIWF12G3
M12 FCIWP12G3

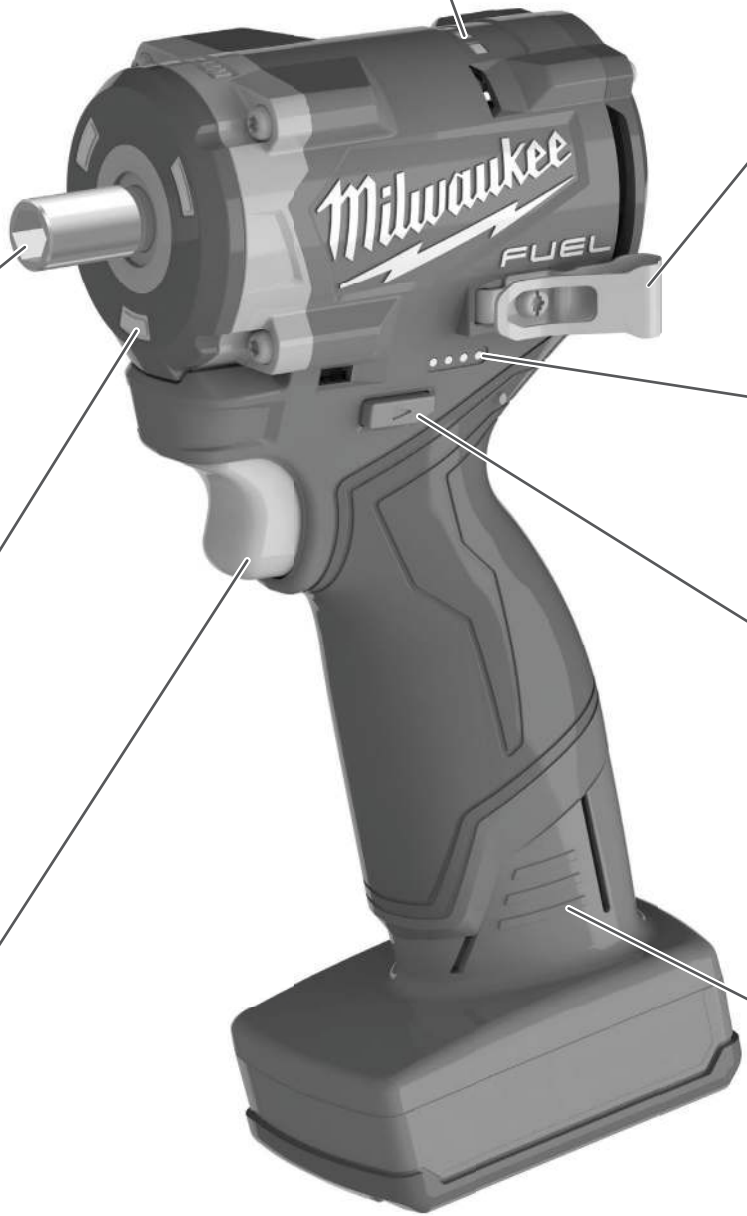
Original instructions

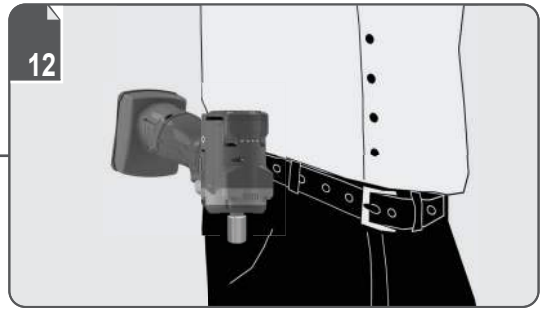




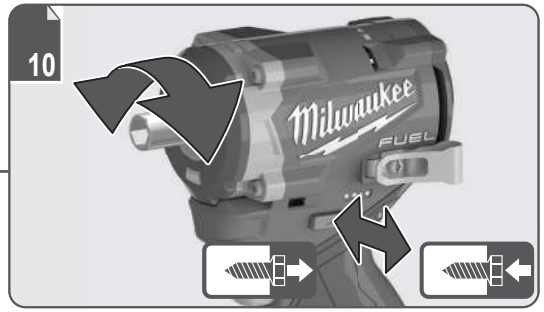


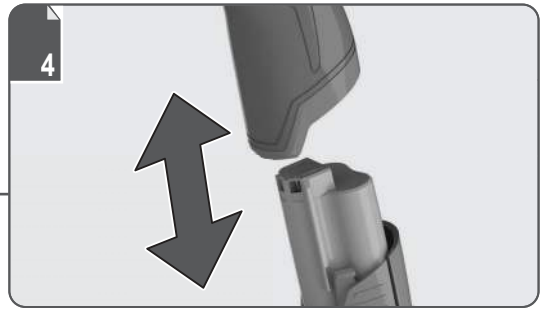












13 Text section with Technical Data, Important Safety and Working Hints, and Description of Symbols



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

1



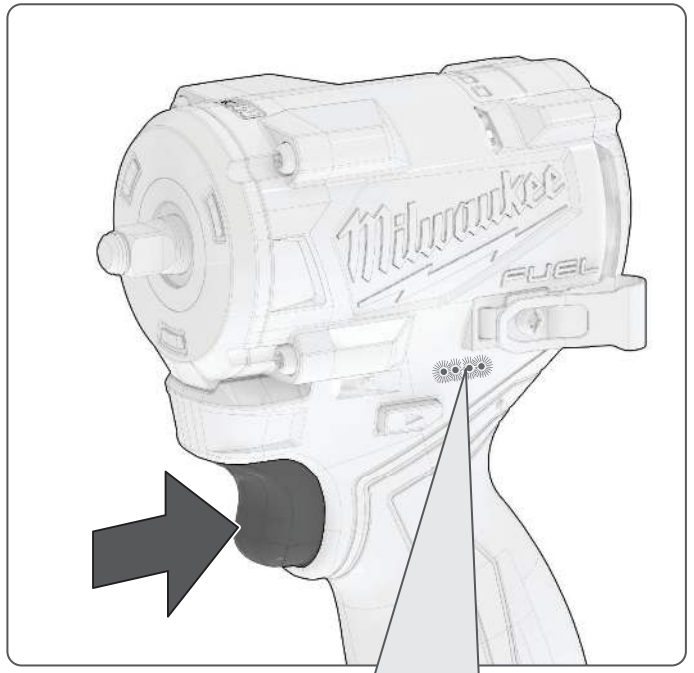


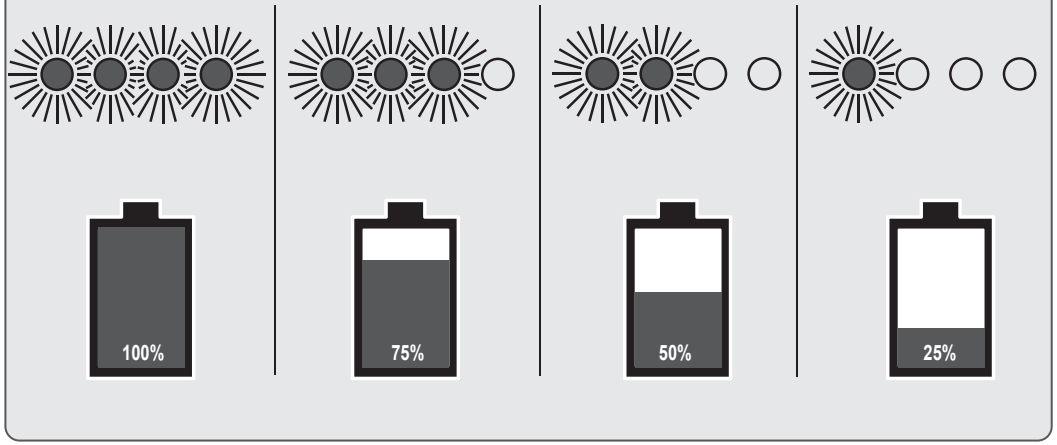
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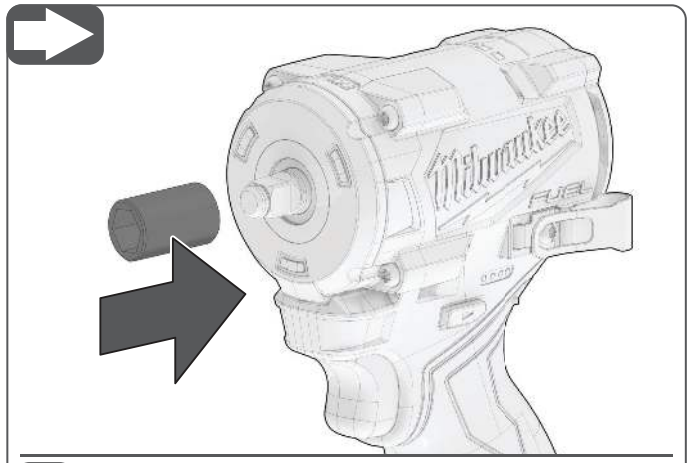
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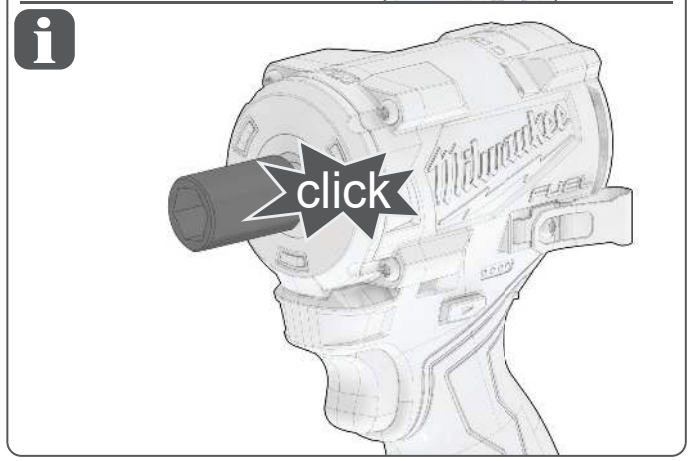


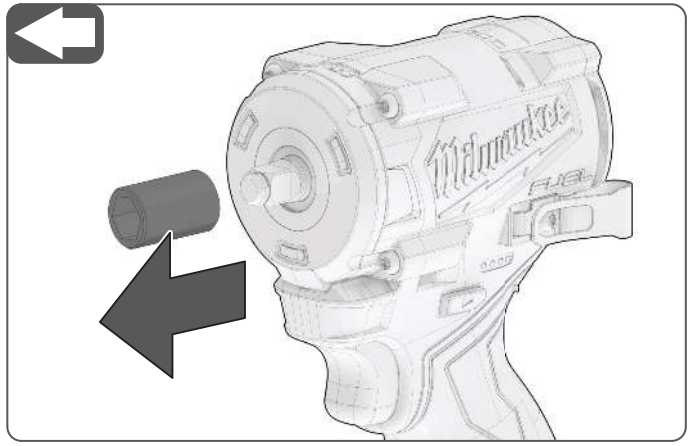


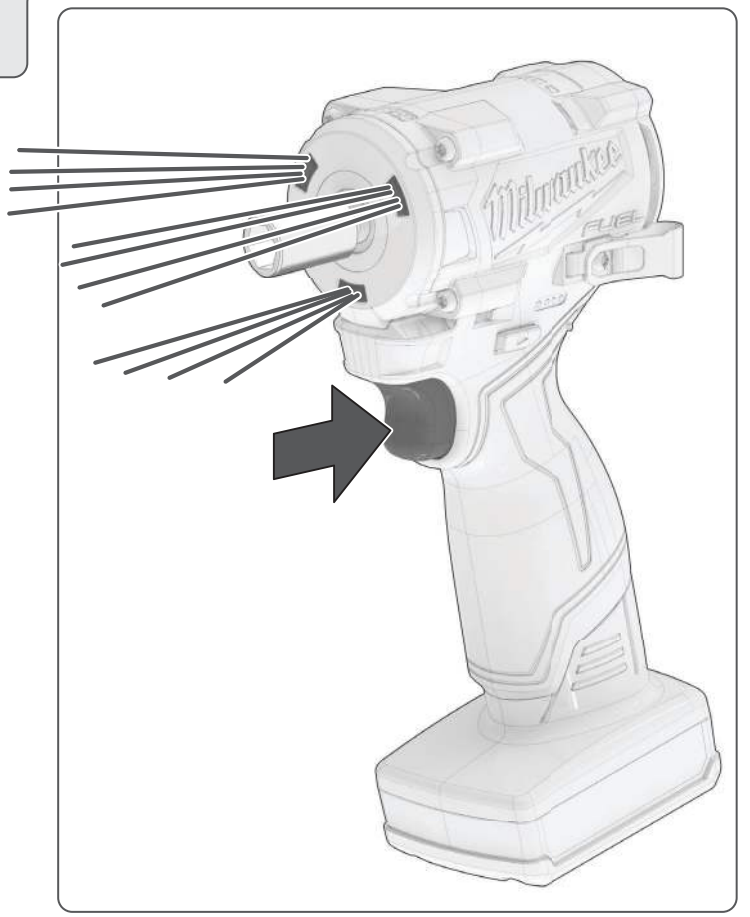






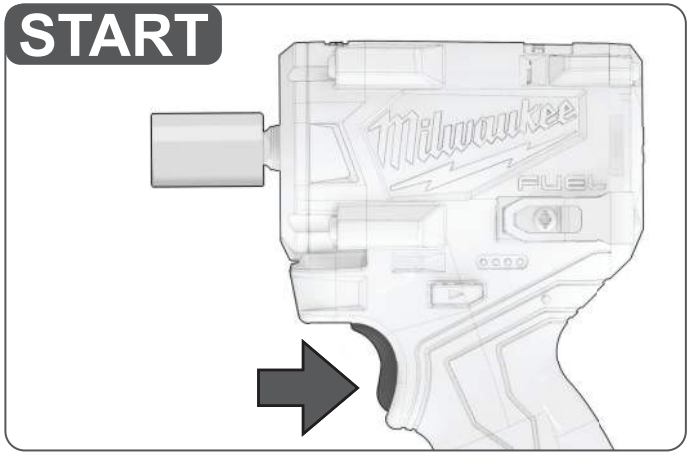

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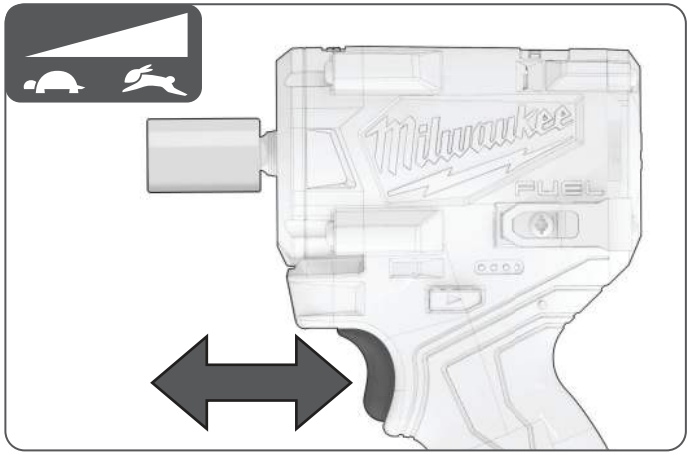




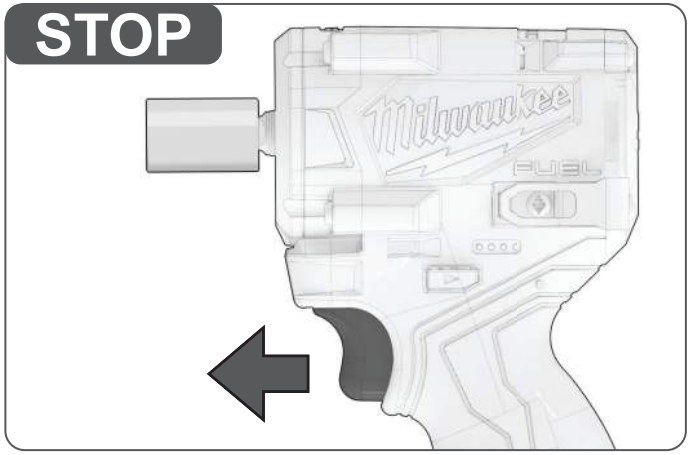


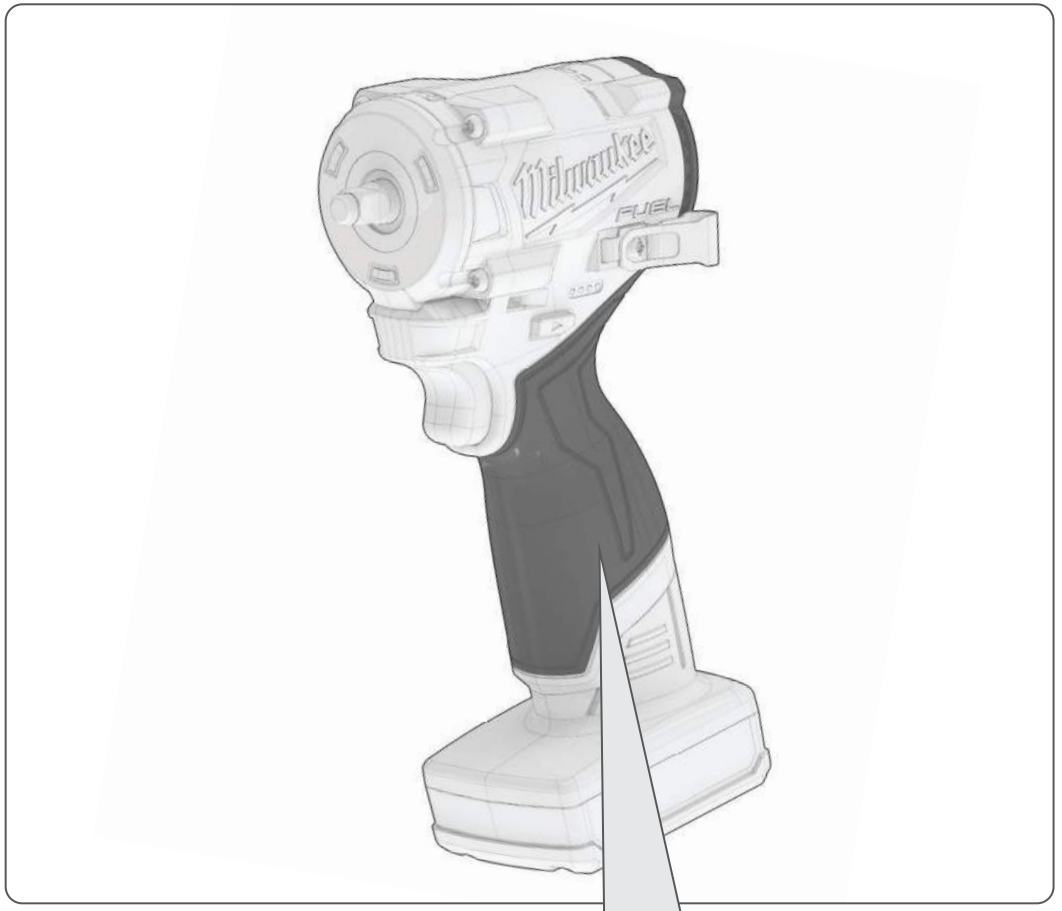
START



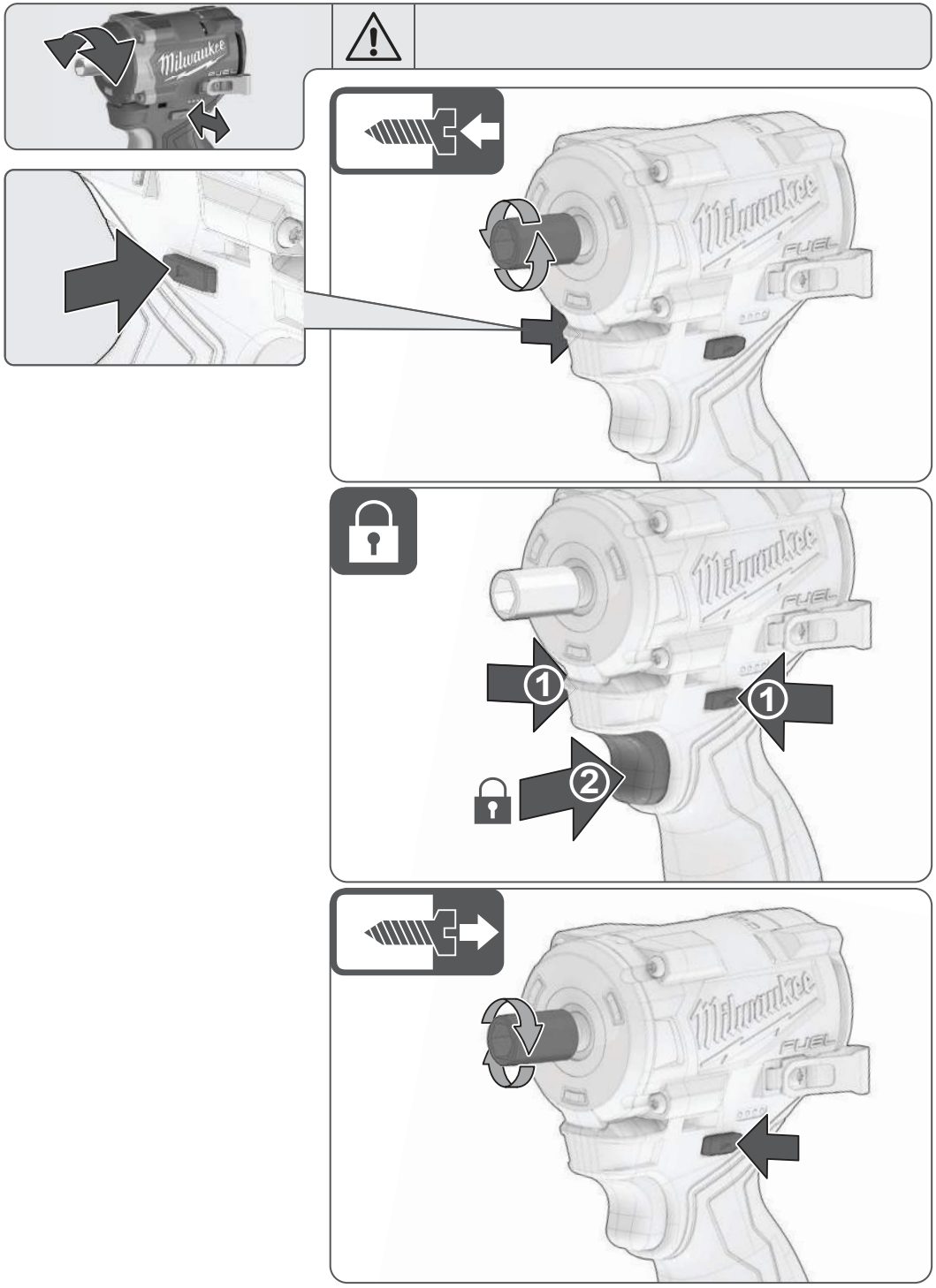


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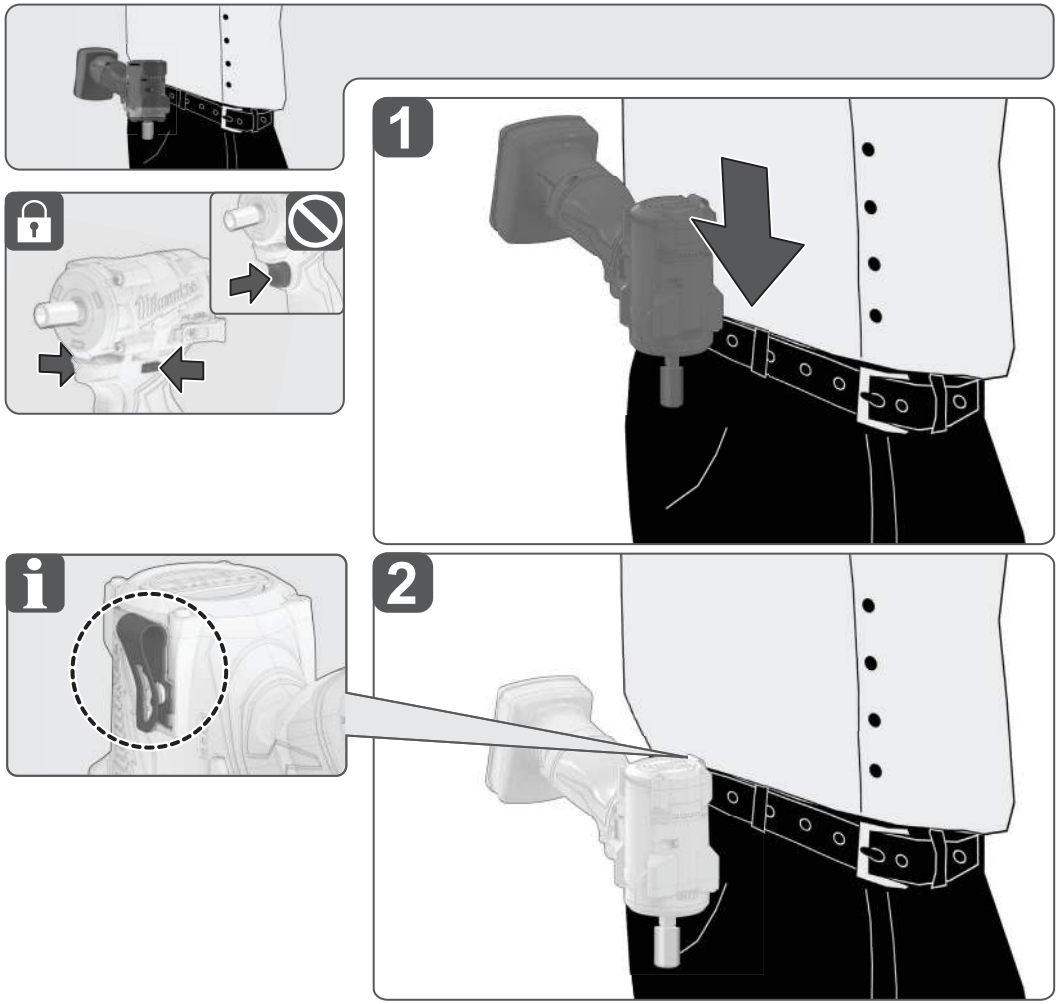




Handle (insulated gripping surface)



	M12 FCIWF38G3	M12 FCIWF12G3	M12 FCIWP12G3
1	0–930 min^{-1}	0–930 min^{-1}	0–930 min^{-1}
2	0–2100 min^{-1}	0–2100 min^{-1}	0–2100 min^{-1}
3	0–3000 min^{-1}	0–3000 min^{-1}	0–3000 min^{-1}
	0–1300 min^{-1}	0–1300 min^{-1}	0–1300 min^{-1}



TECHNICAL DATA		M12 FCIWF38G3	M12 FCIWF12G3	M12 FCIWP12G3
Type			Cordless Impact Wrench	
Production code		4819 86 01 XXXXXX MJJJJ	4819 85 01 XXXXXX MJJJJ	4819 87 01 XXXXXX MJJJJ
1 2 3	No-load speed		0–930 min^{-1}	
	Impact range		0–1500 min^{-1}	
1 2 3	No-load speed		0–2100 min^{-1}	
	Impact range		0–3000 min^{-1}	
1 2 3	No-load speed		0–3000 min^{-1}	
	Impact range		0–3300 min^{-1}	
1 2 3	No-load speed		0–1300 min^{-1}	
	Impact range		-	
Max torque			745 Nm	
Tool reception		3/8" (9.5 mm)	1/2" (12.6 mm)	1/2" (12.6 mm)
Max diameter bolt/nut		M16	M16	M16
Weight according to EPTA-Procedure 01/2014 (2.0 Ah)		1.2 kg	1.2 kg	1.2 kg
Weight according to EPTA-Procedure 01/2014 (2.5 Ah–5.0 Ah)		1.2 kg–1.5 kg	1.2 kg–1.5 kg	1.2 kg–1.5 kg
Weight according to EPTA-Procedure 01/2014 (6.0 Ah)		1.4 kg	1.4 kg	1.4 kg
Recommended ambient operating temperature			-18 – +50 °C	
Recommended battery pack types			M12B..., M12HB...	
Recommended chargers			M12-18 C, M12-18 FC, M12-18 AC, M12 C4, C12 C	

Noise information: Measured values determined according to EN 62841.

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

Sound pressure level / Uncertainty *K*	97 dB / 3 dB(A)
Sound power level / Uncertainty *K*	105 dB / 3 dB(A)

Always wear ear protectors.

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

Vibration emission value a_h / Uncertainty *K*	14.57 m/s^2 / 1.50 m/s^2

NOTE: In auto shut-off mode, the product drives forward at a reduced RPM until the torque is achieved. In reverse, the product operates at full RPM to remove the fastener.

⚠ 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 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.

IMPACT WRENCH SAFETY WARNINGS

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 personal protective equipment. Always wear eye protection. 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 the product may be harmful to health. Do not inhale the dust. Wear a suitable dust protection mask.

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

Clamp the workpiece with a clamping device. Unclamped workpieces can cause severe injury and damage.

Do not machine any materials that present a danger to health, such as asbestos.

Avoid electric cables, gas pipes, and water pipes when working on walls, ceilings, or floors.

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

Do not reach into the product while it is running.

Do not insert the bit into the product when the product is running and the trigger is on lock-on status. The bit will spin out of control and may hurt the operator. Make sure that the bit is properly installed before operating the product again.

Do not switch on the product again after it has stalled. Switching it on again can cause a kickback with high reaction force. Determine why the product has stalled and rectify it, paying heed to the safety instructions. If necessary, remove the insertion tool.

The possible causes may be:

- The insertion tool is tilted in the workpiece to be machined.
- The insertion tool has pierced through the material to be machined.
- The product is overloaded.

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

WARNING! Danger of cuts and burns:

- when changing insertion tools
- when setting the product down

SPECIFIED CONDITIONS OF USE

The cordless impact wrench is designed for tightening and loosening nuts and bolts.

Do not use the product for any other purpose.

RESIDUAL RISKS

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

- injury caused by vibration
  - Hold the product by designated handles and restrict working time and exposure.
- hearing injury caused by exposure to noise
  - Wear ear protection and limit exposure.
- injury due to flying debris
  - Wear eye protection, heavy long trousers, gloves, and substantial footwear at all times.
- health hazards caused by inhalation of toxic dust
  - Wear a suitable dust protection mask.

BATTERY SAFETY INSTRUCTIONS

Use of Li-Ion batteries

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 M12 System chargers for charging M12 System battery packs. Do not use battery packs from other systems.

Never break open battery packs and chargers, and store them only in dry rooms. Keep battery packs and chargers 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.

No metal parts must be allowed to enter the battery section of the charger (short circuit risk).

Battery packs that 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 lifetime, 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 battery 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 product vibrates for about 2 seconds, and then the product turns off. To reset, release the trigger.

Under extreme circumstances, the internal temperature of the battery pack could rise too much. If this happens, the fuel gauge flashes until the battery pack cools down. After the lights go off, continue working.

Transport of Li-Ion 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 the 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 the battery contact terminals are protected and insulated to prevent short circuit.
- Ensure that the battery pack is secured against movement within the packaging.
- Do not transport batteries that are cracked or leaking.
- Check with the forwarding company for further advice.

WARNING! To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse the product, battery pack, or charger in fluid or allow 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.

OPERATION

NOTE: After fastening, always check the torque with a torque wrench.

The fastening torque is affected by a wide variety of factors including the following:

- State of battery charge – When the battery is discharged, the voltage will drop and the fastening torque will be reduced.
- Operation at speeds – Operating the product at low speeds reduces the fastening torque.
- Fastening position – Holding the product or the driving fastener in various angles affects the torque.
- Drive accessory/socket – Failure to use the correct accessory or socket size, 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, fitment can reduce the fastening force of the product.
- Bolt/Nut – Fastening torques may differ according to the class, diameter, and length of the nut or 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 (dry or lubricated base, soft or hard base) and any component in between the surfaces (seal or washer between the fastener and base material) may affect the fastening torque.

IMPACTING TECHNIQUES

The longer a bolt, screw, or nut is impacted, the tighter it will become.

To prevent damage on the fasteners or workpieces, avoid excessive impacting.

Be 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 affects the degree of tightness.

The torque required to loosen a fastener averages 75%–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 the final tightening.

CLEANING

Keep the ventilation slots of the product clear at all times.

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, carbon dust, etc.

MAINTENANCE

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

If needed, an exploded view of the product can be ordered. State the product type and the serial number printed on the label, and order the drawing at your local service agent or directly at: Techtronic Industries GmbH, Max-Eyth-Straße 10, 71364 Winnenden, Germany.

SYMBOLS

	Read the instructions carefully before starting the product.
	CAUTION! WARNING! DANGER!
	Remove the battery pack before starting any work on the product.
	Always wear goggles when using the product.
	Wear ear protectors.
	Wear a suitable dust protection mask.
	Wear gloves.

	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 the 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 the reuse 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 and 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.
n_0	No-load speed
V	Voltage
⎓	Direct current
CE	European Conformity Mark
UKCA	British Conformity Mark
001	Ukraine Conformity Mark
EAC	EurAsian Conformity Mark

EC-DECLARATION OF CONFORMITY

We declare as the manufacturer under our sole responsibility that the product described under Technical Data fulfills all the relevant provisions of the following European Directives, European Regulations and harmonised standards.

2011/65/EU (RoHS)
2014/30/EU
2006/42/EC

EN 62841-1:2015+A11:2022
EN 62841-2-2:2014
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 63000:2018

Winnenden, 2024-05-22



Martin Landherr
Managing Director

Authorised to compile the technical file.

GB-DECLARATION OF CONFORMITY

We declare as the manufacturer under our sole responsibility that the product described under Technical Data fulfills all the relevant provisions of the following European Directives, European Regulations and harmonised standards.

S.I. 2008/1597 (as amended)
S.I. 2016/1091 (as amended)
S.I. 2012/3032 (as amended)

BS EN 62841-1:2015+A11:2022
BS EN 62841-2-2:2014
BS EN IEC 55014-1:2021
BS EN IEC 55014-2:2021
BS EN IEC 63000:2018

Winnenden, 2024-05-22



Martin Landherr
Managing Director

Authorised to compile the technical file.

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