

Cordless Impact Wrench



Machine: Cordless Impact Wrench

Make/Model: Makita XWT18

Revised: 3 / 21 / 2023

Author: Trevor Marks

Location: Machine Shop

Department: Mechanical Engineering

DO NOT use this machine unless you have been trained in its safe use and operation!

Personal Protective Equipment



Safety Glasses
Required



Caution
Pinch Hazard



Entanglement
Hazard



Contain
Long Hair

Potential Hazards

- Pinch or crushing of hands between tool and workpiece
- Entanglement in rotation parts
- Cuts from broken bolts

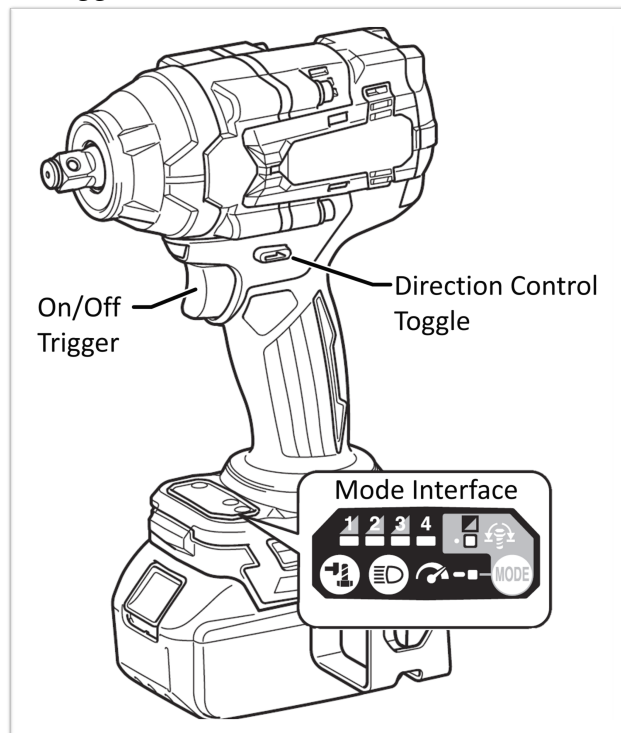
Typical Operations

- 1/2" square drive impact wrench
- Fastening bolts/nuts
- Loosening of bolts/nuts
- Only use impact rated sockets with this tool!

Procedure Checklist

PRE-Operation:

- Identify *direction control toggle* and ensure the lever is in the neutral (locked) position.
- Ensure the socket is correctly installed.
- Install battery cartridge by aligning the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely.
- Press the *direction control toggle* to the desired direction and squeeze the *on/off trigger*.
- The lamp panel on the mode interface window should illuminate to display the current impact mode. The impact force during a window of approximately one minute after releasing the switch trigger.

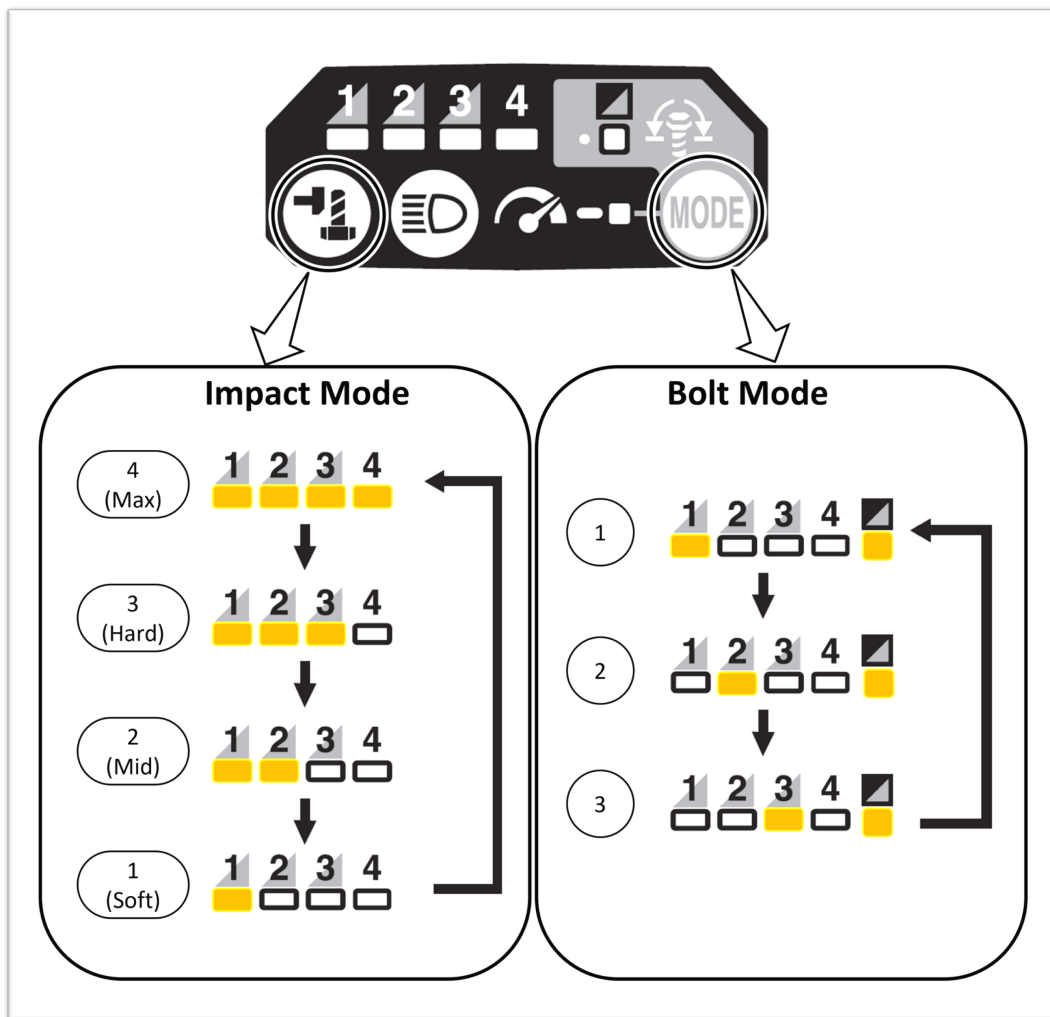


Operation:


- Hold the tool firmly and place the impact socket over the bolt or nut.
- To start the tool pull the switch trigger. Generally, maximum applied fastening torque is achieved after 2 seconds. Running the tool longer does not increase the fastening torque applied.
- Release the switch trigger to stop.

POST-Operation:

- Press the Forward/Reverse lever to the neutral (locked) position.
- Remove the battery cartridge by sliding it from the tool while sliding the button on the front of the cartridge. Place the battery on an open charging port.
- Remove the bit and return to proper location.
- Wipe tool down with a clean rag and return the tool to its proper storage place.
- Leave the work area in a safe, clean state.



Impact Force

Pressing  will cycle the impact force mode

Mode	No-load Speed (rpm)	Blows per Minute
4 (Max)	2,200	2,700
3 (Hard)	1,900	2,400
2 (Medium)	1,200	1,700
1 (Soft)	500	1,000

Bolt Mode

Pressing  will cycle the bolt mode

Mode	Clockwise Rotation	Counterclockwise Rotation
3	Tool stops when impacts start	Impact force mode: 4, tool stops when impacts stop
2	Tool stops 0.5 s after impacts start	Impact force mode: 4, tool stops 0.2 s after impacts stop
1	Tool stops 1.0 s after impacts start	Tool slows after impacts stop

Do's and Don'ts

Do's:

- Read the user manual: [\[GitHub Link\]](#)
- Stay alert, watch what you are doing and use common sense when operating a power tool. A moment of inattention while operating power tools may result in serious personal injury.
- Be sure you have a firm footing and know what is behind your workpiece.
- Hold the tool firmly.
- Use the correct power tool for your application.
- Only use impact sockets.

Don'ts:

- Do not use the driver without approval!
- Do not use standard sockets with this tool (only use impact sockets).
- Do not force the power tool.
- Do not overreach.
- Do not touch the bit or the workpiece immediately after operation, they may be extremely hot and could burn your skin.