SAFE OPERATING PROCEDURE

Cordless Impact Driver

Machine:	Cordless Impact Driver
Make/Model:	Makita XDT14
Revised:	3 / 20 / 2023
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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 Cut Hazard


Entanglement Hazard


Contain Long Hair

Potential Hazards

- Eye injury from flying chips or broken bits
- Cuts from contact with cutting tools
- Entanglement in rotation machine parts
- Burns from hot tools or hot work pieces
- Metal Splinters

Typical Operations

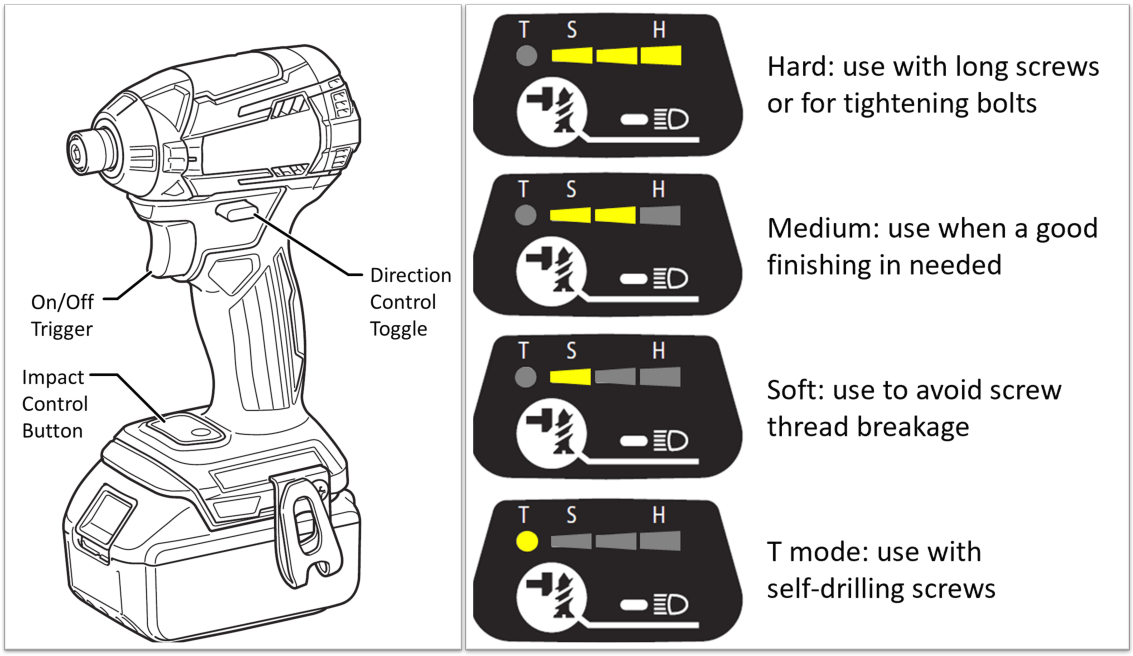
- Driving screws
- Tightening/Removal screws and bolts
- DO NOT USE FOR DRILLING

	No-load Speed (rpm)	Impacts per Minute
Hard Impact	3600	3800
Medium Impact	2100	2600
Low Impact	1100	1100
T mode	3600	2600

Procedure Checklist

PRE-Operation:

- Identify *direction control toggle* and ensure the lever is in the neutral (locked) position.
- Ensure the bit is correctly installed and that it is appropriate for the task and material.
- Ensure the workpiece is secure and that you know what is behind your workpiece.
- 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*.
- Select the proper impact force for the job. The impact force during a window of approximately one minute after releasing the switch trigger. To change the torque setting, press the impact control button .



Operation:

- Hold the tool firmly and place the point of the driver bit in the screw head.
- Apply forward pressure to the tool to the extent that the bit will not slip off the screw.
- Squeeze the *on/off trigger* to start the tool. Tool speed is increased by increasing pressure on the switch trigger. Release the trigger to stop the tool.
- Ensure the bit runs 'true' and does not wobble. Excess vibration must be identified and addressed immediately.

POST-Operation:

- Set the *direction control toggle* 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.

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.

Don'ts:

- Do not use the driver without approval!
- 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.