

Circular Saw



Machine: Circular Saw
Make/Model: Makita XSH03Z
Revised: 3 / 17 / 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



Protective Clothing



Entanglement Hazard



Contain Long Hair



Inhalation Hazard



Caution Cut Hazard

Potential Hazards

- Eye injury from flying debris
- Cuts from contact with cutting tool or splinters
- Kickback due to sudden pinched or snagged rotating wheel, backing pad, brush or other attachment
- Entanglement in rotation machine parts
- Sawdust inhalation

Typical Operations

- Rip cut
- Cross cut

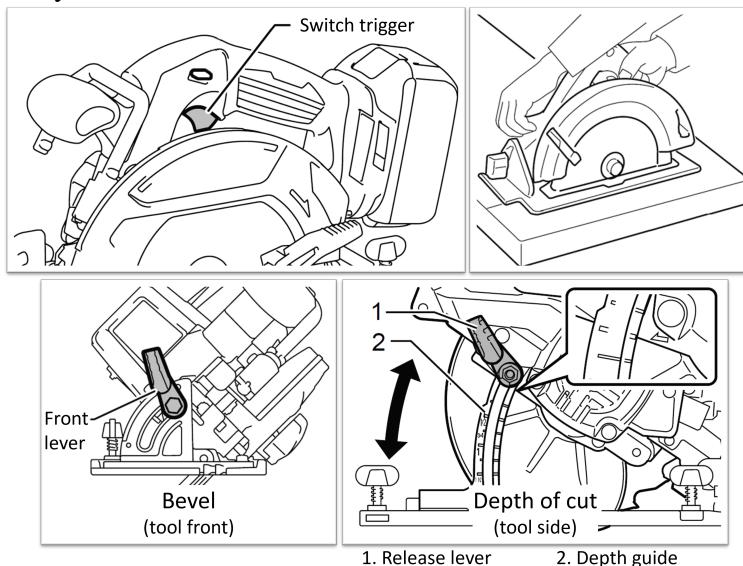
Select Specifications

Maximum at 0° 2-1/4" (57 mm)
Cutting at 45° 1-5/8" (41mm)
Depth at 50° 1-7/16" (37 mm)

Procedure Checklist

PRE-Operation:

- Identify the *switch trigger* and *lock-off lever* – these turn the tool on (squeeze) and off (release).
- Ensure the proper saw blade is installed for the planned operation.
- Connect dust extraction system if appropriate.
- Adjust bevel and depth of cut as appropriate.
- 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.



Operation:

- Ensure the saw blade is not engaged with the workpiece.
- Hold the tool firmly with two hands.
- Set the base on the workpiece to be cut without the blade making any contact.
- Apply pressure to the trigger to turn on the tool and wait until the blade attains full speed.
- Move the tool forward to cut. **Do not attempt to turn the tool or force a curved cut** – doing so may bind the blade and lead to dangerous kickback and possible serious injury.
- At the end of the cut, release the trigger switch and wait for blade to stop then withdraw the tool.

POST-Operation:

- Use a brush or rag to clean machine.
- Remove any custom fixtures used.
- Return the tool and leave work area in a safe, clean state.
- Slide the on/off switch to the off 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.
- 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: [\[GitHub Link\]](#)
- Always keep both hands on the tool.
- Ask for help if you want to change the saw blade.
- Properly secure the workpiece, see image below for available accessories.



Don'ts:

- Do not use the saw without approval!
- Do not change the saw blade without approval.
- Do not start the saw with the blade engaged.
- Do not attempt to turn the tool or force a curved cut line.