

Cordless Jig Saw



Machine: Cordless Jig Saw

Make/Model: Makita XVJ03

Revised: 3 / 21 / 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



Inhalation
Hazard



Caution
Cut Hazard

Potential Hazards

- Cuts from contact with cutting tool or splinters
- Burn from hot workpiece or tool
- Sawdust inhalation

Typical Operations

- Straight cuts in wood
- Cutouts
- Bevel cutting
- Metal cutting
- Maximum Cutting Capacities

Wood	5-5/16" (135 mm)
Mild Steel	3/8" (10 mm)
Aluminum	25/32" (20 mm)

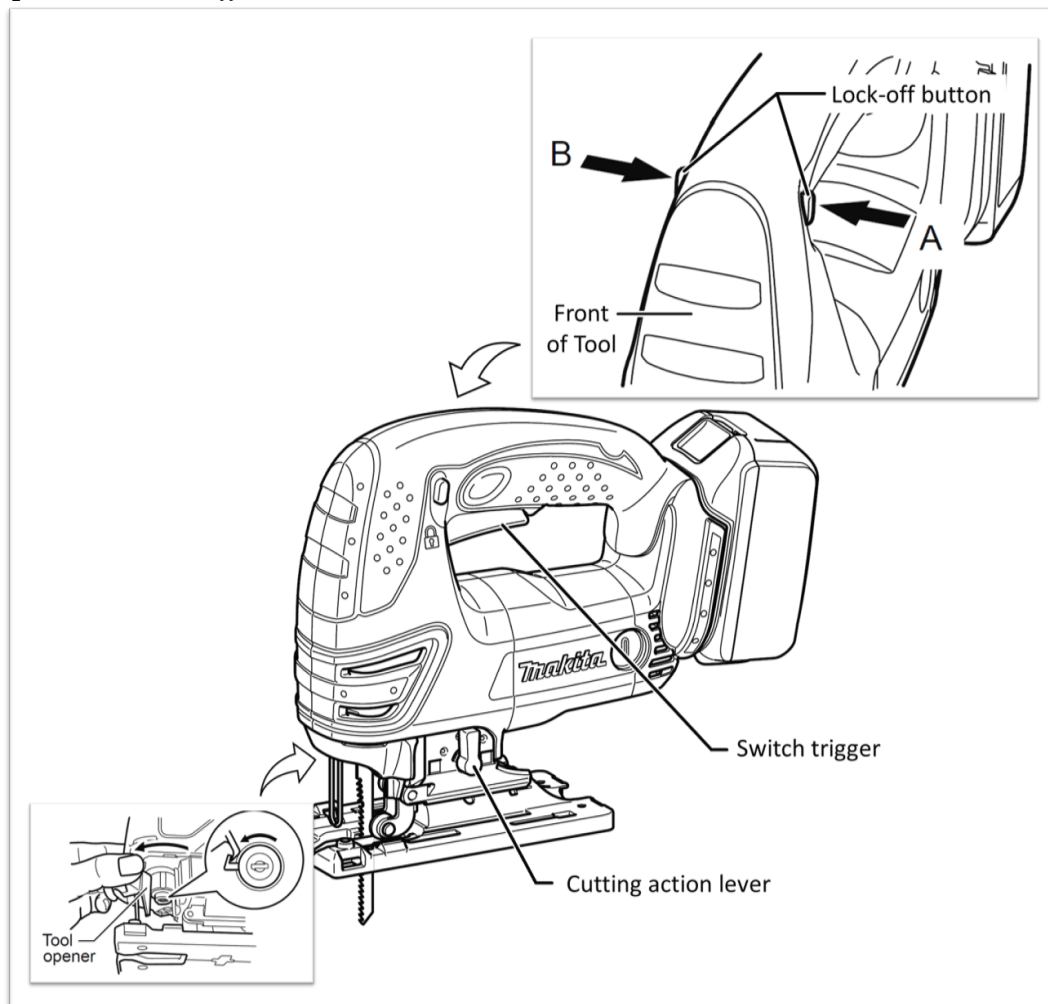
Procedure Checklist

PRE-Operation:

- Before inserting the battery cartridge into the tool, check to see that the switch trigger actuates properly and returns to the "OFF" position when released.
- Use the *cutting action lever* to select orbital or a straight line cutting action.

Position	Cutting action	Application
0	Straight line action	For steel, plastics and clean cuts in wood
I	Small orbital action	For mild steel, aluminum, and hard wood
II	Medium orbital action	Fast cutting in wood, aluminum and mild steel
III	large orbital action	Fast cutting in wood only (no metal)

- Ensure the proper the blade for the desired operation is installed.
To remove/install a blade, rotate the *tool opener* to the position shown in the figure. Inserted blade into the blade clamp as far as the two protrusions of the blade can go. Return the tool opener to its original position. Pinch the sides of the blade carefully and give the blade a tug to ensure it is securely held in place.
- 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.
- Depress the *lock-off button* from B-side.



Operation:

- Hold the base flush with the workpiece. Failure to do so may cause blade breakage, resulting in a serious injury.
- Ensure the blade is not engaged with the workpiece.
- Apply pressure to the trigger to turn on the tool and wait until the blade attains full speed.
- With the base flat on the workpiece, and gently move the tool forward along the previously marked cutting line.
- At the end of the cut, release the trigger switch and wait for blade to stop then withdraw the tool.

POST-Operation:

- Depress the lock-off button from A side to lock the switch trigger in 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.
- Use a brush or rag to clean machine.
- Remove any custom fixtures used.
- Carefully remove the saw blade and return to its storage place.
- Wipe tool down with a clean rag and return the tool to its proper storage place.
- Return the tool and leave work area in a safe, clean state.

Do's and Don'ts

Do's:

- Read the user manual: [\[GitHub Link\]](#)
- Properly secure the workpiece.
- Use caution when handling saw blades.
- Use caution immediately after cutting operations as workpiece and tool may be hot!
- Always hold the base flush with the workpiece.
- Remove the battery before adjusting the base tilt or installing/removing a blade.

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 plunge cut! Always use a bored hole for cutouts.
- Do not adjust the base tilt or attempt a blade install/removal if the battery is installed.