Makita XSH06Z

Makita XSH06Z 7-1/4 inch Circular Saw Instruction Manual

Model: XSH06Z

Introduction

The Makita XSH06Z is an 18 Volt X2 LXT Lithium-Ion (36V equivalent) Brushless Cordless 7-1/4 inch Circular Saw designed for efficient and powerful cutting. This tool utilizes Makita's X2 LXT technology, allowing it to operate on two 18V LXT batteries for increased power and run time, comparable to corded tools. It features a brushless motor for extended tool life and efficiency, an electric brake for enhanced productivity, and a large 2-5/8 inch cutting capacity at 90 degrees. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your circular saw.

Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operating the tool.

General Power Tool Safety Warnings

- **Work Area Safety:** Keep work area clean and well lit. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; avoid loose clothing or jewelry. Stay alert, watch what you are doing, and use common sense.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

Circular Saw Specific Safety Warnings

- **Kickback:** Kickback is a sudden reaction to a pinched, bound, or misaligned saw blade. Always maintain a firm grip with both hands on the saw and position your body and arm to allow you to resist kickback forces.
- **Blade Guard:** Ensure the lower guard is properly closed before each use. Never jam the lower guard open.

- **Cutting Procedure:** Hold the tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring.
- **Blade Selection:** Use only blades recommended by the manufacturer. Ensure the blade is sharp and clean.

Components Overview



Figure 1: Makita XSH06Z 7-1/4 inch Circular Saw with a 24T Carbide-Tipped Max Efficiency blade.

The image above displays the Makita XSH06Z 7-1/4 inch Circular Saw along with one of the included B-61656 7-1/4 inch 24T

Carbide-Tipped Max Efficiency Circular Saw Blades. The saw features a robust design with a comfortable grip handle, a blade guard for safety, and a durable base plate. The blade itself is designed for efficient cutting in various wood materials.

Key Components:

- **Main Handle:** Ergonomic grip for control and comfort.
- **Trigger Switch:** Activates the saw.
- **Lock-off Button:** Prevents accidental starting.
- **Depth Adjustment Lever:** For setting cutting depth.
- **Bevel Adjustment Lever:** For setting bevel cutting angle.
- **Lower Blade Guard:** Retracts during cutting, covers blade when not in use.
- **Upper Blade Guard:** Fixed guard covering the top portion of the blade.
- **Base Plate (Shoe):** Supports the saw on the workpiece.
- **Spindle Lock Button:** Locks the spindle for blade changes.
- **Battery Ports:** Accepts two 18V LXT Lithium-Ion batteries.
- **Blade Wrench Holder:** Convenient storage for the blade wrench.

Setup

Battery Installation

1. Ensure the saw is turned off and the lock-off button is engaged.
2. Align the two 18V LXT Lithium-Ion battery packs with the battery ports on the saw.
3. Slide the battery packs into the ports until they click securely into place.
4. To remove, press the release button on the battery pack and slide it out.

Blade Installation and Removal

The saw comes with three B-61656 7-1/4 inch 24T Carbide-Tipped Max Efficiency Circular Saw Blades. Always use the correct blade for the material being cut.

1. Ensure the saw is turned off and batteries are removed.
2. Press the spindle lock button to prevent the blade from rotating.
3. Using the provided blade wrench, loosen the arbor bolt by turning it counter-clockwise.
4. Remove the arbor bolt and the outer flange.
5. Retract the lower blade guard and carefully remove the old blade.
6. Clean the arbor and flanges. Place the new 7-1/4 inch blade onto the arbor, ensuring the teeth are pointing in the direction of rotation (indicated by an arrow on the blade and saw).
7. Replace the outer flange and arbor bolt. Tighten the arbor bolt securely by turning it clockwise with the blade wrench while holding the spindle lock button.
8. Release the spindle lock and ensure the lower guard moves freely.

Adjusting Cutting Depth

1. Ensure the saw is turned off and batteries are removed.

2. Loosen the depth adjustment lever.
3. Raise or lower the base plate to achieve the desired cutting depth. For optimal cutting, the blade should extend approximately 1/8 inch (3 mm) below the workpiece.
4. Tighten the depth adjustment lever securely.

Adjusting Bevel Angle

1. Ensure the saw is turned off and batteries are removed.
2. Loosen the bevel adjustment lever.
3. Tilt the saw base plate to the desired angle (up to 50 degrees). The scale on the front of the saw indicates the angle.
4. Tighten the bevel adjustment lever securely.

Operating Instructions

Starting and Stopping the Saw

1. To start the saw, depress the lock-off button and then pull the trigger switch.
2. To stop the saw, release the trigger switch. The electric brake will quickly stop the blade rotation.

Making Straight Cuts

1. Mark your cutting line on the workpiece.
2. Set the desired cutting depth and ensure the bevel angle is at 0 degrees.
3. Place the front edge of the saw's base plate on the workpiece, ensuring the blade is clear of the material.
4. Align the saw's cutting line indicator with your marked line.
5. Start the saw and allow the blade to reach full speed before beginning the cut.
6. Push the saw forward smoothly and steadily through the workpiece, keeping the base plate flat against the material.
7. Support the workpiece properly to prevent pinching the blade at the end of the cut.

Making Bevel Cuts

1. Mark your cutting line.
2. Set the desired bevel angle using the bevel adjustment lever.
3. Adjust the cutting depth as needed for the angled cut.
4. Follow the same procedure as for straight cuts, ensuring the saw remains stable throughout the cut.

Cutting Different Materials (Wood)

- **Softwoods and Hardwoods:** The 24T Carbide-Tipped Max Efficiency blade is suitable for general purpose cutting in various wood types. Adjust feed rate based on wood density.
- **Plywood and Composites:** For cleaner cuts and reduced splintering, consider using a blade with a higher tooth count (e.g., 40T or 60T) if available, though the included blade can perform these cuts.
- Always ensure the workpiece is securely clamped and stable before cutting.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool. Always disconnect batteries before performing any maintenance.

Cleaning

- After each use, remove sawdust and debris from the tool, especially around the blade guard and motor vents, using a brush or compressed air.
- Wipe down the exterior with a clean, damp cloth. Do not use harsh chemicals or solvents.
- Ensure the lower blade guard mechanism is free of debris and moves smoothly.

Blade Care

- Keep blades sharp and clean. A dull blade can cause kickback and strain the motor.
- Remove resin and pitch buildup from the blade using a specialized blade cleaner.
- Inspect blades for cracks, missing teeth, or bending before each use. Replace damaged blades immediately.

Battery Care

- Store batteries in a cool, dry place away from direct sunlight and heat.
- Do not store batteries in a discharged state for extended periods. Charge them periodically if not in use.
- Use only Makita genuine chargers for charging Makita LXT batteries.

Storage

- Store the saw in a dry, secure location out of reach of children.
- Ensure the blade is fully retracted into the guard when storing.
- Remove batteries from the tool before long-term storage.

Troubleshooting

This section addresses common issues you might encounter with your Makita XSH06Z circular saw.

Problem	Possible Cause	Solution
Saw does not start	Batteries not inserted correctly Batteries discharged Lock-off button not depressed	Ensure batteries click into place Charge batteries Press lock-off button before trigger
Saw loses power during cut	Batteries low Dull blade Overloading the motor	Charge batteries Replace or sharpen blade Reduce feed rate; do not force the saw
Excessive splintering or rough cuts	Dull blade Incorrect blade for material Improper cutting technique	Replace or sharpen blade Use a blade with higher tooth count for fine cuts Ensure steady feed rate and proper support

Problem	Possible Cause	Solution
Blade guard sticks or does not retract	Sawdust or debris buildup Damaged guard mechanism	Clean guard area thoroughly Contact Makita service for repair

Specifications

Feature	Specification
Model Number	XSH06Z
Power Source	Battery Powered (18V X2 LXT Lithium-Ion, 36V equivalent)
Blade Diameter	7-1/4 inches
Arbor Size	5/8 inches
No Load Speed	6,000 RPM
Max Cutting Capacity (90°)	2-5/8 inches
Max Cutting Capacity (45°)	1-7/8 inches
Max Bevel Capacity	50 degrees
Motor Type	Brushless
Special Features	Electric Brake, LED Light, Dust Blower

Warranty and Support

Makita power tools are engineered to provide reliable performance. For detailed warranty information, please refer to the official Makita warranty statement included with your product packaging or visit the official Makita website. Warranty terms typically cover defects in materials and workmanship for a specified period from the date of purchase.

Customer Support:

For technical assistance, service, or to locate an authorized service center, please contact Makita customer support or visit their official website:

- **Makita Official Website:** www.makitatools.com
- Refer to your product registration card or packaging for specific contact numbers in your region.

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