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› [Makita XSH06Z 18V X2 LXT® Lithium-Ion \(36V\) Brushless Cordless 7-1/4" Circular Saw Instruction Manual](#)

Makita XSH06Z

Makita XSH06Z 18V X2 LXT® Lithium-Ion (36V) Brushless Cordless 7-1/4" Circular Saw

Model: XSH06Z | Brand: Makita

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1. INTRODUCTION

The Makita XSH06Z is an 18V X2 LXT® Lithium-Ion (36V) Brushless Cordless 7-1/4" Circular Saw, designed for demanding cutting applications. This tool combines Makita's advanced Brushless motor technology with the power of two 18V LXT Lithium-Ion batteries to deliver performance comparable to corded saws, offering freedom from the cord. It features an electronically-controlled BL Brushless motor that adjusts torque and RPM to the application, providing efficient cutting at up to 6,000 RPM. This manual provides essential information for safe and effective use of your circular saw.



Figure 1.1: Makita XSH06Z 7-1/4" Circular Saw (Tool Only).

2. SAFETY INFORMATION

WARNING: Read all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

General Power Tool Safety Warnings

- **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication. Always wear eye protection, dust mask, non-skid safety shoes, hard hat, or hearing protection as appropriate for the conditions.
- **Power 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 remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.

Circular Saw Specific Safety Warnings

- **Cutting Procedure:** DANGER: Keep hands away from cutting area and the blade. Keep your second hand on the auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.

- **Guard Operation:** Never wedge open the lower guard. Always check the lower guard for proper closing before each use.
- **Kickback Prevention:** Maintain a firm grip on the saw with both hands and position your body and arm to allow you to resist kickback forces. Kickback is the result of misuse or incorrect operating procedures.



Figure 2.1: Important safety notice regarding the use of genuine Makita Lithium-Ion batteries.

CAUTION: Makita U.S.A., Inc. notifies tool users of the hazards and risks of using non-genuine (“knock-off”) Makita Lithium-Ion batteries. “Knock-Off” Makita Lithium-Ion Batteries May Burst Causing Fires, Personal Injuries or Property Damage.

3. COMPONENTS OVERVIEW

The Makita XSH06Z circular saw comes with the following components:

- Makita XSH06Z 18V X2 LXT® Lithium-Ion (36V) Brushless Cordless 7-1/4" Circular Saw (Bare Tool)
- 7-1/4" 24T C.T. Circular Saw Blade (B-61656)
- Wrench (783204-6)

Note: Batteries and charger are sold separately.



Figure 3.1: Close-up view of the saw blade, lower guard, and magnesium base.

4. SETUP

4.1 Battery Installation

The XSH06Z circular saw requires two 18V LXT Lithium-Ion batteries for operation. Ensure batteries are fully charged before use.

1. Align the battery pack with the battery housing on the saw.
2. Slide the battery pack into the housing until it locks into place with a click.
3. To remove, press the release button on the battery and slide it out.



Figure 4.1: The circular saw with two 18V LXT batteries correctly installed, providing 36V power.

4.2 Blade Installation

Always ensure the tool is switched off and batteries are removed before installing or changing the blade.

1. Lift the blade guard and use the provided wrench to loosen the arbor bolt.
2. Remove the outer flange and old blade.
3. Clean the arbor and flanges.
4. Place the new 7-1/4" blade onto the arbor, ensuring the teeth are pointing in the direction of rotation (indicated by an arrow on the saw).
5. Replace the outer flange and securely tighten the arbor bolt with the wrench. Do not overtighten.

4.3 Adjusting Cutting Depth and Bevel Angle

Adjust the cutting depth to be slightly deeper than the material being cut for optimal performance and safety. The bevel angle can be adjusted for angled cuts.

- **Depth Adjustment:** Loosen the depth adjustment lever, move the base to the desired depth, and tighten the lever.
- **Bevel Adjustment:** Loosen the bevel adjustment lever, tilt the saw to the desired angle (up to 50 degrees), and tighten the lever.

5. OPERATION

5.1 Basic Cutting Procedures

Before starting, ensure your workpiece is securely clamped and you have a clear line of sight for the cut.

1. Hold the saw firmly with both hands, one on the main handle and the other on the auxiliary handle.
2. Depress the safety button and then pull the trigger switch to start the saw. Allow the blade to reach full speed before engaging the material.
3. Guide the saw smoothly through the material, maintaining a consistent speed. Do not force the saw.
4. Upon completing the cut, release the trigger switch. The electric brake will quickly stop the blade.



Figure 5.1: Proper two-hand grip and cutting technique for the circular saw.

5.2 Key Features

- **BL™ Brushless Motor:** Electronically controlled to optimize battery energy use for up to 50% longer run time per charge. It runs cooler and more efficiently for longer tool life.
- **Automatic Speed Change™ Technology:** Adjusts cutting speed and torque during the cut for optimum performance, ensuring consistent power under load.
- **Electric Brake:** Provides maximum productivity by stopping the blade quickly after the trigger is released.
- **Built-in Dust Blower:** Cleans the line-of-cut for improved visibility.
- **Magnesium Components:** Die-cast magnesium base and blade guard combine durability with less weight.



Figure 5.2: The BL Brushless motor offers up to 50% longer motor life compared to non-brushless motors.

5.3 LXT® Advantage

The Makita XSH06Z is part of the 18V LXT® system, utilizing two 18V batteries to deliver 36V power. This system offers:

- **More Power, Speed, and Run Time:** X2 LXT technology provides the power and run time for demanding applications.
- **Faster Charging:** Makita 18V LXT® batteries have category-leading charge times.
- **Star Protection Computer Controls™:** Communication technology that monitors conditions during use to protect against overloading, over-discharging, and overheating.



Figure 5.3: Two 18V LXT batteries combine to provide 36V power for high-demand applications.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Makita circular saw.

6.1 Cleaning

- Always disconnect batteries before cleaning.
- Use a clean cloth to wipe down the tool. Do not use harsh chemicals or abrasive cleaners.
- Keep the ventilation openings clear of dust and debris to prevent overheating.

- Regularly clean the blade guard mechanism to ensure it operates freely.

6.2 Blade Care

- Inspect the blade regularly for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- Clean resin and pitch buildup from the blade using a suitable blade cleaner.

6.3 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.
- Use only genuine Makita chargers for charging Makita batteries.

7. TROUBLESHOOTING

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

| Problem | Possible Cause | Solution |
|--|--|---|
| Saw does not start | Batteries not inserted correctly or discharged. Safety button not depressed. Tool malfunction. | Ensure batteries are fully charged and properly inserted. Depress safety button before pulling trigger. If issue persists, contact service. |
| Reduced cutting performance | Dull or dirty blade. Incorrect cutting depth. Overloading the tool. | Replace or clean the blade. Adjust cutting depth. Reduce feed rate and avoid forcing the tool. |
| Excessive vibration | Damaged or improperly installed blade. Loose components. | Inspect blade for damage and ensure it is correctly installed and tightened. Check for any loose parts on the saw. |
| Lower guard sticks or does not retract | Accumulation of sawdust or debris. Damaged guard mechanism. | Clean the lower guard area thoroughly. If damaged, seek professional repair. |

8. SPECIFICATIONS

| Feature | Detail |
|------------------------|--|
| Model Number | XSH06Z |
| Power Source | Cordless (Powered by two 18V LXT® Lithium-Ion batteries for 36V performance) |
| Blade Diameter | 7-1/4 inches |
| No Load Speed | 6,000 RPM |
| Cutting Capacity (90°) | 2-11/16 inches |
| Cutting Capacity (45°) | 1-7/8 inches |
| Bevel Capacity | 0° - 50° |

| Feature | Detail |
|---------------------|--|
| Blade Material | High Speed Steel |
| Item Weight | 10.4 Pounds (with batteries, sold separately) |
| Product Dimensions | 15.79"L x 9.57"W x 12.6"H |
| Special Features | Electric Brake, Brushless Motor, Automatic Speed Change Technology |
| Included Components | 7-1/4" 24T C.T. Circular Saw Blade (B-61656), Wrench (783204-6) |

9. WARRANTY & SUPPORT

9.1 Warranty Information

The Makita XSH06Z Circular Saw is covered by a **3-year limited warranty** from the date of original purchase. This warranty covers defects in materials and workmanship. For full details on warranty coverage, limitations, and how to make a claim, please refer to the official Makita warranty statement included with your product or visit the Makita website.

9.2 Customer Support

If you have any questions regarding the operation, maintenance, or repair of your Makita XSH06Z circular saw, please contact Makita Customer Service:

- **Phone:** (800)-4-MAKITA (800-462-5482)
- **Website:** www.makitatools.com
- **Service Centers:** Locate an authorized Makita Factory Service Center or Authorized Service Center via the website for professional repairs.

For additional information, you may also refer to the official User Guide (PDF) available online [Makita XSH06Z User Guide](#).