Makita XPS01PTJ

Makita XPS01PTJ 18V X2 LXT (36V) Brushless 6-1/2 inch Plunge Circular Saw Kit Instruction Manual

Model: XPS01PTJ

Introduction Safety Components Setup Operation Maintenance Troubleshooting Specifications & Support

1. Introduction

This manual provides essential instructions for the safe and effective use of your Makita XPS01PTJ 18V X2 LXT (36V) Brushless 6-1/2 inch Plunge Circular Saw Kit. Please read and understand all instructions before operating the tool. Proper use and maintenance will ensure optimal performance and extend the lifespan of your saw.

2. General 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.

2.1 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way.
- Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

2.3 Personal Safety

- Always wear eye protection. Use appropriate personal protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection for appropriate conditions.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the

power tool in unexpected situations.

2.4 Power Tool Use and Care

- Do not force the power tool. Use the correct power tool for your application.
- Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.

2.5 Battery Tool Use and Care

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

3. Product Overview and Components

The Makita XPS01PTJ Plunge Circular Saw Kit is designed for precise cutting applications, especially when paired with an optional guide rail system. It features a powerful brushless motor and operates on two 18V LXT batteries for 36V performance.



Image: The complete Makita XPS01PTJ kit, including the plunge circular saw, two 18V LXT 5.0Ah batteries, a dual port rapid optimum charger, and two interlocking cases.

3.1 Included Components

- 18V X2 LXT (36V) Brushless 6-1/2" Plunge Circular Saw (XPS01Z)
- 6-1/2" 55T C.T. Cordless Plunge Saw Blade (Wood, MDF, Laminate) (B-57071)
- Two 18V LXT 5.0Ah Batteries

- Dual Port Rapid Optimum Charger
- Interlocking Case(s)
- Hex Wrench (783203-8)

3.2 Key Features

- **X2 LXT Technology:** Utilizes two 18V LXT batteries for 36V power, speed, and extended runtime.
- **Brushless Motor:** Electronically controlled BL Brushless motor delivers 6,300 RPM for maximum performance and efficiency.
- **Automatic Speed Change Technology:** Adjusts cutting speed and torque during the cut for optimal performance across various materials.
- **Variable Speed Control:** Dial (2,500 - 6,300 RPM) allows for precise speed adjustment based on material.
- **Electric Brake:** Enhances user safety and productivity by stopping the blade quickly.
- **Bevel Capability:** Adjustable bevel from -1° to 48° with positive stops at 22.5° and 45°.
- **Close-to-Wall Cutting:** Designed for cutting as close as 11/16" from a wall.



Image: Side view of the Makita XPS01 Plunge Circular Saw, highlighting the blade guard and motor housing.

4. Setup

4.1 Charging and Installing Batteries

1. Insert the 18V LXT batteries into the rapid optimum charger. Ensure proper alignment.
2. Allow batteries to fully charge. The charger will indicate when charging is complete.
3. To install batteries into the saw, align the battery with the battery port on the saw and slide it in until it clicks into place. Ensure both battery ports are filled for 36V operation.
4. To remove batteries, press the release button on the battery and slide it out.



Image: The Makita XPS01 Plunge Circular Saw with an 18V LXT battery correctly installed in one of the two battery slots.

4.2 Installing the Saw Blade

1. **Ensure the saw is disconnected from batteries.**
2. Locate the blade lock button and press it to secure the blade arbor.
3. Use the provided hex wrench to loosen the arbor bolt.
4. Open the blade guard and carefully remove the old blade (if applicable).
5. Place the new 6-1/2" blade onto the arbor, ensuring the teeth are pointing in the direction of rotation indicated by the arrow on the saw.
6. Tighten the arbor bolt securely with the hex wrench while holding the blade lock button.
7. Release the blade lock button and ensure the blade rotates freely.

4.3 Adjusting Cutting Depth

1. Loosen the depth adjustment lever.
2. Move the saw base up or down until the desired cutting depth is indicated on the scale.
3. Tighten the depth adjustment lever firmly.

4.4 Adjusting Bevel Angle

1. Loosen the bevel adjustment knob.
2. Tilt the saw base to the desired angle (from -1° to 48°). Positive stops are available at 22.5° and 45°.
3. Tighten the bevel adjustment knob securely.



Image: Close-up of the Makita XPS01 Plunge Circular Saw's bevel adjustment mechanism, showing the angle scale and locking knob.

5. Operating Instructions

5.1 General Cutting Procedure

1. **Prepare the Workpiece:** Securely clamp the material to prevent movement during cutting. Mark your cut line clearly.
2. **Set Depth and Bevel:** Adjust the cutting depth and bevel angle as required for your project.
3. **Connect Dust Extraction (Optional):** For cleaner operation and improved visibility, connect a dust extractor to the saw's dust port.
4. **Position the Saw:** Place the saw on the workpiece, ensuring the blade is aligned with your cut line.
5. **Start the Saw:** Depress the trigger switch. Allow the blade to reach full speed before beginning the cut.
6. **Perform the Plunge Cut:** Gently push down on the saw to engage the plunge mechanism, lowering the blade into the material. Maintain a steady, controlled feed rate.
7. **Complete the Cut:** Guide the saw along the cut line. Do not force the saw; let the blade do the work.
8. **Release Plunge and Turn Off:** Once the cut is complete, release the plunge mechanism and then release the trigger switch. Wait for the blade to stop completely before lifting the saw from the workpiece.



Image: The Makita XPS01 Plunge Circular Saw positioned on a wooden workpiece, ready for a cut.

5.2 Using with a Guide Rail (Sold Separately)

For highly accurate and straight cuts, the XPS01PTJ is designed to be used with a Makita guide rail system.

1. **Position the Guide Rail:** Place the guide rail on the workpiece, aligning its edge with your desired cut line. Clamp the guide rail securely to prevent movement.
2. **Place Saw on Rail:** Position the plunge circular saw onto the guide rail. The saw base will engage with the rail for stable tracking.
3. **Perform Cut:** Follow the general cutting procedure, ensuring the saw remains firmly seated on the guide rail throughout the cut.

6. Maintenance

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

6.1 Cleaning

- Always disconnect batteries before cleaning.
- Use a soft cloth to wipe down the tool. Do not use harsh chemicals or abrasive cleaners.
- Clear dust and debris from ventilation openings to prevent overheating.
- Regularly clean the blade guard and saw base to ensure smooth operation and accurate cuts.

6.2 Blade Care

- Inspect the saw blade before each use for sharpness, cracks, or missing teeth. Replace damaged blades immediately.
- Keep blades clean and free of resin buildup. Use appropriate blade cleaner.

6.3 Battery and Charger 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.
- Keep battery terminals clean.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Saw does not start	Batteries not charged or improperly installed	Ensure batteries are fully charged and correctly inserted into both ports.
Saw loses power during cut	Overload or low battery charge	Reduce feed rate. Check battery charge level and recharge if necessary.
Blade binds or smokes	Dull blade, incorrect blade for material, or improper feed rate	Replace with a sharp, appropriate blade. Reduce feed rate. Ensure workpiece is properly supported.
Inaccurate cuts	Loose guide rail, incorrect depth/bevel setting, or worn blade	Ensure guide rail is securely clamped. Verify depth and bevel settings. Replace blade if dull.

8. Specifications

Feature	Specification
Model Number	XPS01PTJ
Power Source	Battery Powered (2x 18V LXT Lithium-Ion)
Voltage	36 Volts
Blade Diameter	6-1/2 inches
No-Load Speed	2,500 - 6,300 RPM
Max Cutting Capacity (90°)	2-3/16 inches
Bevel Capacity	-1° to 48°
Item Weight	11.2 pounds
Product Dimensions	16"L x 12.1"W x 19.6"H
Blade Material	High Speed Steel
Surface Recommendation	Wood

9. Warranty and Support

9.1 Warranty Information

Makita offers a **3-year limited warranty** on the tool, batteries, and charger for the XPS01PTJ Plunge Circular Saw Kit. This warranty covers defects in materials and workmanship from the date of purchase. Please retain your proof of purchase for warranty claims.
For detailed warranty terms and conditions, please refer to the official Makita warranty statement included with your product or visit the official Makita website.

9.2 Customer Support

If you have any questions, require technical assistance, or need to arrange for service, please contact

Makita customer support. You can find contact information on the official Makita website or in the documentation provided with your tool.
When contacting support, please have your model number (XPS01PTJ) and serial number (if applicable) ready.

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