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› RYOBI ONE+ 18V Cordless 7-1/4 in. Sliding Compound Miter Saw User Manual

RYOBI PBT01B

RYOBI ONE+ 18V Cordless 7-1/4 in. Sliding Compound Miter Saw User Manual

Model: PBT01B

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your RYOBI ONE+ 18V Cordless 7-1/4 in. Sliding Compound Miter Saw. Please read and understand all instructions before operating the tool. Retain this manual for future reference.



Figure 1: RYOBI ONE+ 18V Cordless 7-1/4 in. Sliding Compound Miter Saw. This image displays the complete miter saw with its blade guard, handle, miter table, and dust collection bag attached.

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

- **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:** This is a cordless tool. Ensure battery packs are compatible with the tool. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection (safety glasses or goggles). Use hearing protection when operating power tools. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack before making any adjustments, changing accessories, or storing power tools.

Miter Saw Specific Safety

- Always keep hands away from the blade area.
- Ensure the blade is sharp and correctly installed.
- Secure the workpiece with the work clamp before cutting.
- Allow the blade to reach full speed before beginning a cut.
- Never reach into the blade path while the saw is running or coasting.
- Use a dust mask when cutting wood, especially treated wood.

3. SETUP AND ASSEMBLY

3.1 Unpacking

Carefully remove all components from the packaging. Inspect the tool for any damage that may have occurred during shipping. Do not discard packaging until you have ensured all parts are present and the tool is functioning correctly.

3.2 Attaching Carrying Handles

1. Locate the two carrying handles provided.
2. Attach each handle to the designated mounting points on the saw base using the provided hardware. Ensure they are securely fastened for safe transport.

3.3 Blade Installation

The saw comes with a 40-tooth Carbide-Tipped Blade. If replacing or installing a new blade:

1. Ensure the battery pack is removed from the saw.
2. Press and hold the spindle lock button.
3. Use the blade wrench to loosen and remove the blade bolt.
4. Carefully remove the outer blade washer and the old blade.
5. Install the new blade, ensuring the teeth are pointing in the correct direction (downwards towards the front of the saw).
6. Replace the outer blade washer and blade bolt. Tighten securely with the blade wrench while holding the spindle lock.

3.4 Dust Bag Attachment

Attach the dust bag to the dust port located at the rear of the blade guard assembly. This helps maintain a cleaner work environment.

3.5 Battery Installation

This tool is part of the RYOBI ONE+ 18V System. Insert a fully charged RYOBI ONE+ 18V battery pack into the battery port until it clicks into place. Ensure the battery is securely seated before operation.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To start the saw, depress the trigger switch. Release the trigger switch to stop the saw. The electric blade brake will stop the blade quickly after the trigger is released.

4.2 Adjusting Miter Angle

1. Loosen the miter lock handle.
2. Press the miter detent override button (if using a non-detent angle) or lift the miter detent lever to disengage the detent.
3. Rotate the miter table to the desired angle (up to 47° left or right).
4. Tighten the miter lock handle to secure the table.

4.3 Adjusting Bevel Angle

1. Loosen the bevel lock knob located at the rear of the saw.
2. Tilt the saw head to the desired bevel angle (0° to 45° left).
3. Tighten the bevel lock knob to secure the saw head.

4.4 Making a Cut

1. Place the workpiece firmly against the fence and on the miter table.
2. Secure the workpiece using the work clamp.
3. Lower the saw head slightly and depress the trigger to start the blade. Allow it to reach full speed.
4. Slowly push the saw head forward through the workpiece, maintaining a steady, controlled motion.
5. Once the cut is complete, release the trigger and allow the blade to stop completely before raising the saw head.

5. MAINTENANCE

WARNING: Always remove the battery pack before performing any maintenance or cleaning.

5.1 General Cleaning

Regularly clean the saw to prevent sawdust buildup. Use a soft brush or compressed air to remove dust from vents, the motor housing, and the miter table. Do not use solvents or harsh chemicals.

5.2 Blade Care

Inspect the blade regularly for sharpness and damage. A dull or damaged blade can cause kickback and reduce cutting efficiency. Replace worn blades promptly. Refer to section 3.3 for blade installation instructions.

5.3 Battery Pack Maintenance

Store battery packs in a cool, dry place away from direct sunlight. Do not store battery packs in a discharged state for extended periods. Follow the battery manufacturer's instructions for charging and storage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Saw does not start.	Battery not installed or discharged.	Ensure battery is fully charged and properly seated.
Inaccurate cuts.	Miter/bevel settings not locked; dull blade; fence not square.	Verify all locks are tightened. Replace blade if dull. Check and adjust fence squareness.
Excessive dust.	Dust bag full or improperly attached.	Empty dust bag. Ensure dust bag is securely attached to the dust port.
Blade binds during cut.	Dull blade; workpiece not properly supported; forcing the cut.	Replace blade. Ensure workpiece is stable and clamped. Allow the saw to cut at its own pace.

7. SPECIFICATIONS

Feature	Detail
Model Number	PBT01B
Power Source	18V Battery Powered (RYOBI ONE+ System)
Blade Diameter	7-1/4 in.
No-Load Speed	3600 RPM
Blade Type	40-tooth Carbide-Tipped
Cross Cut Capacity (Nominal)	2 in. x 10 in.
Miter Range	47° Left / 47° Right
Bevel Range	0° to 45° Left
Special Features	Sliding Function, Spindle Lock, Electric Blade Brake, Integrated Carry Handles
Weight	Approximately 28.2 lbs (bare tool)
UPC	689908004381

8. WARRANTY AND SUPPORT

8.1 Manufacturer's Warranty

This RYOBI ONE+ 18V Cordless 7-1/4 in. Sliding Compound Miter Saw is backed by a **3-Year Manufacturer's Warranty**. For full details regarding warranty coverage, limitations, and claim procedures, please refer to the official RYOBI warranty documentation included with your purchase or visit the RYOBI website.

8.2 Customer Support

For technical assistance, replacement parts, or service inquiries, please contact RYOBI Customer Support:

- **Website:** www.ryobitools.com
- **Phone:** Refer to the RYOBI website for regional contact numbers.

When contacting support, please have your model number (PBT01B) and serial number readily available.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question