RYOBI PBLJS01

RYOBI ONE+ HP 18V Brushless Cordless Jig Saw (PBLJS01) User Manual

Model: PBLJS01

1. Introduction

1.1 Product Overview

The RYOBI ONE+ HP 18V Brushless Cordless Jig Saw (PBLJS01) is designed for precise cutting in various materials, primarily wood. It features a brushless motor for enhanced performance and runtime, a variable speed dial, and multiple orbital settings for versatile applications. This tool is part of the RYOBI ONE+ System, which utilizes a common 18V battery platform. This manual provides essential information for safe and effective operation.

1.2 General Safety Information

Always read and understand 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. Save all warnings and instructions for future reference.

- **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, hearing protection, and appropriate respiratory protection. Dress properly; avoid loose clothing or jewelry.
- **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.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

2. Product Features



Figure 1: RYOBI ONE+ HP 18V Brushless Cordless Jig Saw (PBLJS01). This image shows the side profile of the jig saw, highlighting its ergonomic handle, blade, and base plate. The RYOBI ONE+ HP branding is visible on the tool's body.

The PBLJS01 Jig Saw incorporates several features designed for efficiency and user control:

- **Brushless Motor:** Provides up to 36% faster cutting and up to 78% longer runtime compared to brushed models.
- **Easy Release Blade Lever:** Facilitates quick and tool-free blade changes.

- **4 Orbital Settings:** Offers increased cutting versatility for different materials and desired cut aggressiveness.
- **Tool-Free Bevel Adjustment:** Allows for easy angle changes, with locking detents at 45 degrees left and right.
- **On-Board LED Worklight:** Illuminates the workspace for improved cut line visibility.
- **Variable Speed Dial:** Enables precise control over cutting speed for various applications.
- **Lock-on Trigger:** Provides additional control during extended cutting tasks.

3. Setup

3.1 Battery Installation

This tool is sold as "Tool Only" and requires a RYOBI ONE+ 18V battery and charger (sold separately). Ensure the battery is fully charged before use.

1. Align the ribs on the battery pack with the grooves in the tool's battery port.
2. Slide the battery pack into the tool until it latches securely in place.
3. To remove, press the release button on the battery pack and pull it out.

3.2 Blade Installation and Removal

Always disconnect the battery pack before installing or removing blades.

1. Lift the easy release blade lever located near the blade clamp.
2. Insert the T-shank blade into the blade clamp with the teeth facing forward. Ensure the blade is fully seated.
3. Release the blade lever to secure the blade. Gently pull on the blade to confirm it is locked.
4. To remove, lift the blade lever and pull the blade out.

3.3 Bevel Adjustment

The base plate can be adjusted for bevel cuts up to 45 degrees left or right.

1. Loosen the tool-free bevel adjustment lever located at the front of the base plate.
2. Tilt the base plate to the desired angle. Detents are provided at 0 and 45 degrees for quick setting.
3. Tighten the bevel adjustment lever to secure the base plate in position.

4. Operating Instructions

4.1 Powering On/Off

- To start the tool, depress the trigger switch. The LED worklight will illuminate.
- To stop the tool, release the trigger switch.
- For continuous operation, depress the trigger and then press the lock-on button. To release, depress the trigger again.

4.2 Variable Speed Control

The variable speed dial allows you to match the cutting speed to the material and application. Rotate the dial to increase or decrease the speed. Lower speeds are generally suitable for harder materials or intricate cuts, while higher speeds are for softer materials and faster cutting.

4.3 Orbital Settings

The jig saw features four orbital settings, controlled by a lever on the side of the tool. These settings adjust the blade's forward motion during the cutting stroke:

- **Setting 0 (Straight Cut):** No orbital action. Ideal for fine, precise cuts in wood, metal, and plastics.
- **Settings 1-3 (Orbital Action):** Increasing levels of orbital action. Provides faster, more aggressive cuts, especially in wood. Use higher settings for rougher cuts and faster material removal.

4.4 Cutting Techniques

- **General Cutting:** Ensure the workpiece is securely clamped. Place the front of the base plate flat on the workpiece before starting the cut. Allow the blade to reach full speed before entering the material.
- **Curved Cuts:** Use a narrow blade and a lower orbital setting. Guide the saw smoothly along the desired curve.
- **Plunge Cuts:** For cuts away from the edge, tilt the saw forward so the front edge of the base plate rests on the workpiece. Start the saw, then slowly lower the blade into the material.
- **Bevel Cuts:** Adjust the base plate to the desired angle as described in Section 3.3.

5. Maintenance

5.1 Cleaning

Regular cleaning helps maintain tool performance and extends its lifespan. Always disconnect the battery pack before cleaning.

- Use a soft brush or compressed air to clear dust and debris from ventilation openings.
- Wipe the tool housing with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the blade clamp area free of sawdust and debris to ensure proper blade seating.

5.2 Blade Care

Dull or damaged blades can affect cut quality and increase strain on the tool. Replace blades when they become dull or show signs of damage. Use only T-shank blades compatible with jig saws.

5.3 Storage

Store the jig saw in a clean, dry place, out of reach of children. Remove the battery pack from the tool before storage. Avoid storing in direct sunlight or areas with extreme temperatures.

6. Troubleshooting

Before attempting any troubleshooting, ensure the battery pack is removed from the tool.

Problem	Possible Cause	Solution
Tool does not start.	Battery pack not installed correctly or discharged.	Ensure battery is fully seated. Charge or replace battery pack.
Poor cut quality or slow cutting.	Dull or incorrect blade. Incorrect speed or orbital setting.	Replace blade. Use appropriate blade for material. Adjust speed and orbital setting.
Excessive vibration.	Loose blade or damaged blade.	Ensure blade is securely clamped. Replace damaged blade.
Blade jams in material.	Forcing the tool. Incorrect blade for material thickness.	Do not force the tool. Use a blade suitable for the material and thickness.

7. Specifications

Feature	Detail
Brand	RYOBI
Model Number	PBLJS01
Power Source	Battery Powered (18V ONE+ System)
Voltage	18 Volts
Motor Type	Brushless
Orbital Settings	4
Bevel Adjustment	Tool-free, up to 45 degrees left/right
Blade Type	T-shank
Included Components	T-shank wood cutting blade, non-marring shoe, operator's manual
Item Weight	4.31 pounds
Product Dimensions	9.21 x 8.11 x 3.27 inches
Surface Recommendation	Wood (suitable for various materials with appropriate blades)

8. Warranty and Support

8.1 Manufacturer's Warranty

The RYOBI ONE+ HP 18V Brushless Cordless Jig Saw (PBLJS01) is backed by the RYOBI 3-Year Manufacturer’s Warranty. This warranty covers defects in material and workmanship under normal use. Please refer to the official RYOBI warranty documentation for full terms and conditions.

8.2 Customer Support

For technical assistance, warranty claims, or to purchase replacement parts, please contact RYOBI customer support. Visit the official RYOBI website for current contact information and service center locations.
Website: www.ryobitools.com

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