RYOBI PCL525B

RYOBI ONE+ 18V Cordless Jig Saw Instruction Manual

Model: PCL525B

1. Product Overview

The RYOBI ONE+ 18V Cordless Jig Saw (Model PCL525B) is a versatile power tool designed for precise and fast cutting of various materials, primarily wood. This tool is part of the RYOBI 18V ONE+ System, allowing for battery interchangeability with other ONE+ tools. It features a variable speed trigger for optimal control, reduced vibration for enhanced comfort, and a tool-free blade release mechanism for quick blade changes.

Key Features:

- Fast, precise cutting with 0 - 3,000 Strokes Per Minute (SPM).
- 30% reduced vibration for enhanced cut control and user comfort.
- Quick and easy tool-free blade changes.
- 4 orbital settings to match power to the application.
- Non-marring shoe to protect work surfaces.
- Variable speed trigger for precise speed control.
- Base adjusts from 0° to 45° right or left for bevel cuts.
- On-board LED worklight for improved visibility.



Figure 1: Front-side view of the RYOBI ONE+ 18V Cordless Jig Saw (PCL525B).

2. General Safety Information

Always read and understand all safety warnings and instructions provided with this tool. Failure to follow these warnings and instructions 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. 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

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.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Personal Safety:

- Always wear eye protection. Use safety glasses with side shields.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.
- Stay alert, watch what you are doing, and use common sense when operating a power tool.
- Remove any adjusting key or wrench before turning the power tool on.

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.
- 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.



Figure 2: Back view of the jig saw showing safety and warning labels. Always read and adhere to all labels on the tool.

3. Setup and Assembly

Before operating the jig saw, ensure proper setup and assembly. This tool is sold as a "tool only" unit, meaning the battery and charger are sold separately.

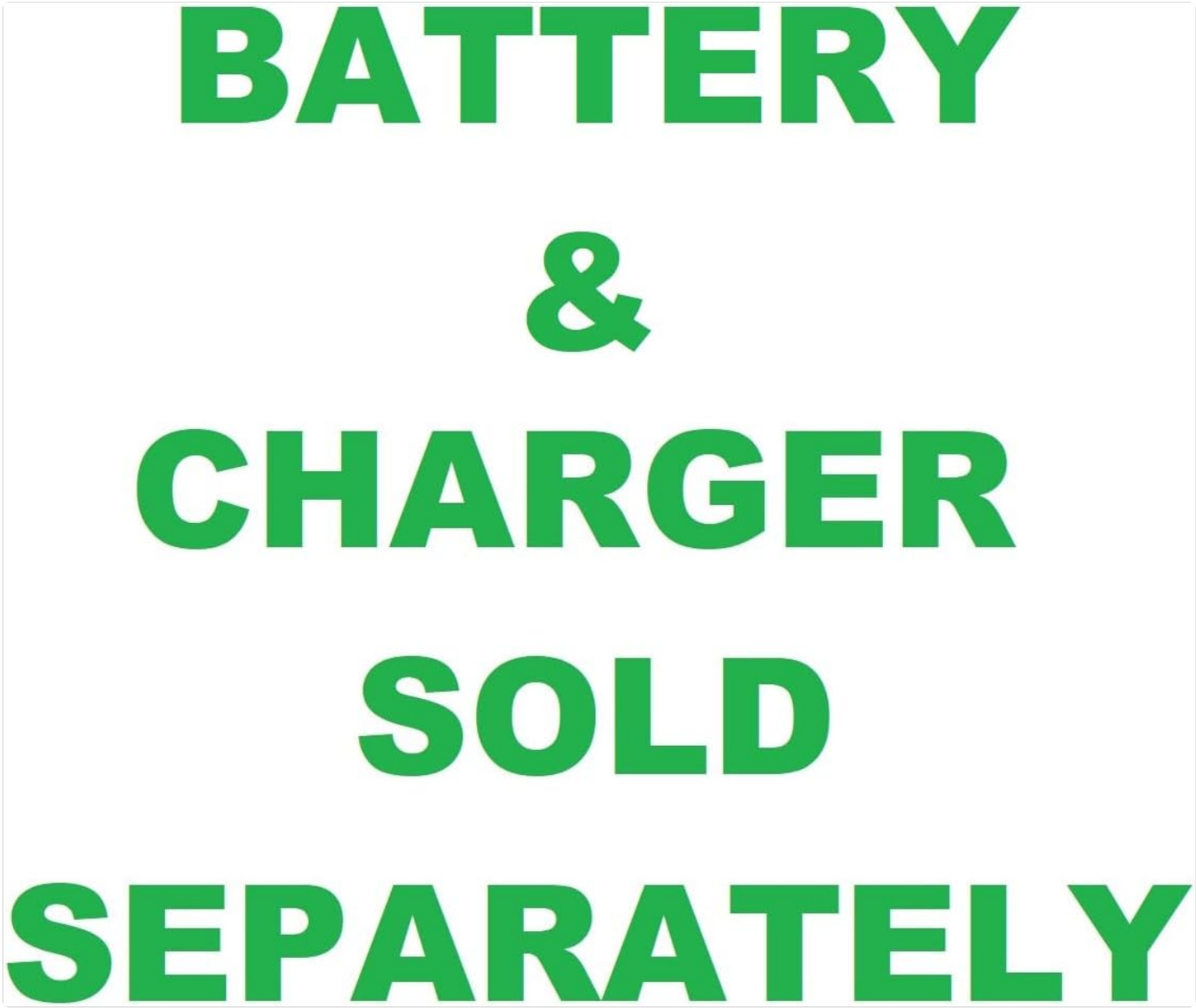


Figure 3: This jig saw requires a RYOBI ONE+ 18V battery and charger, which are not included with the tool.

3.1 Battery Installation

1. Ensure the jig saw's trigger is in the OFF position.
2. Align the ribs on the battery pack with the grooves in the tool's battery port.
3. Slide the battery pack into the tool until it clicks securely into place.
4. To remove, press the latch on the battery pack and pull it out.

3.2 Blade Installation (Tool-Free)

The jig saw features a tool-free blade release for quick and easy blade changes. It accepts T-Shank blades.

1. Ensure the battery pack is removed from the tool.
2. Lift the blade clamp lever located at the front of the tool.
3. Insert the T-Shank blade into the blade clamp slot with the teeth facing forward. Ensure the blade is fully seated.
4. Release the blade clamp lever to secure the blade. Gently pull on the blade to confirm it is locked in place.
5. To remove the blade, lift the blade clamp lever and pull the blade out.

3.3 Adjusting the Non-Marring Shoe

The non-marring shoe protects your work surface from scratches. It can be adjusted for bevel cuts.

1. Ensure the battery pack is removed.

2. Loosen the shoe adjustment screw (typically a hex screw, use the included hex wrench if necessary).
3. Adjust the shoe to the desired angle (0° to 45° left or right) for bevel cuts. Markings are provided on the shoe for common angles.
4. Tighten the shoe adjustment screw firmly to secure the shoe in position.

3.4 Setting Orbital Action

The jig saw features 4 orbital settings to optimize cutting performance for different materials and applications. Orbital action moves the blade in an elliptical motion, providing faster, more aggressive cuts, while straight reciprocating action provides finer, slower cuts.



Figure 4: Side view of the jig saw highlighting the orbital mode dial.

- **Setting 0 (Straight):** For fine, precise cuts in wood, metal, or plastic. Minimal orbital action.
- **Setting 1:** For slow to medium speed cutting in wood and plastic. Light orbital action.
- **Setting 2:** For medium to fast speed cutting in wood. Moderate orbital action.
- **Setting 3:** For fast, aggressive cutting in wood. Maximum orbital action.

Rotate the orbital action selector dial, located on the side of the tool, to the desired setting. Experiment with different settings on scrap material to find the optimal setting for your specific task.

4. Operating Instructions

Always ensure the work piece is securely clamped before cutting. Never hold the work piece with your hand or across your leg.

4.1 Starting and Stopping the Tool

- To start the tool, depress the lock-off button (if present) and then squeeze the variable speed trigger.
- To stop the tool, release the variable speed trigger.
- The variable speed trigger allows you to control the cutting speed by varying the pressure applied. Lighter pressure results in slower speeds, while full pressure results in maximum speed (up to 3,000 SPM).

4.2 Making Cuts

1. Place the front edge of the jig saw shoe flat on the workpiece, ensuring the blade is clear of the material.
2. Start the tool by squeezing the trigger. Allow the blade to reach full speed before beginning the cut.
3. Slowly guide the tool along the cutting line, applying steady, even pressure. Do not force the tool; let the blade do the work.
4. Maintain firm contact between the shoe and the workpiece throughout the cut.
5. For curved cuts, apply gentle pressure and guide the tool smoothly along the curve.
6. When finishing a cut, support the waste piece to prevent splintering or binding. Release the trigger only after the blade has completely exited the material.

4.3 Using the LED Worklight

The integrated LED worklight illuminates the cutting area, improving visibility in dimly lit conditions. The light activates automatically when the trigger is pressed.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your RYOBI ONE+ Jig Saw. Always disconnect the battery pack before performing any maintenance.

5.1 Cleaning

- After each use, clean the tool with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Blow out any dust and debris from the ventilation openings using compressed air.
- Keep the blade clamp area clean and free of sawdust to ensure proper blade seating and release.

5.2 Blade Care

- Inspect blades regularly for sharpness and damage. Dull or damaged blades can cause poor cuts and strain the tool.
- Replace blades when they become dull or bent.
- Store blades in a dry place to prevent rust.

5.3 Storage

- Store the tool in a clean, dry place, out of reach of children.
- Remove the battery pack from the tool before storing for extended periods.
- Do not store the tool in direct sunlight or in areas with extreme temperatures.

6. Troubleshooting

This section provides solutions to common issues you might encounter with your jig saw. For problems not listed here, contact RYOBI customer support.

Problem	Possible Cause	Solution
Tool does not start.	Battery pack not installed correctly or discharged.	Ensure battery pack is fully inserted. Charge battery pack.
Blade not cutting efficiently or splintering.	Dull or incorrect blade for material; incorrect orbital setting.	Replace blade. Use appropriate blade type. Adjust orbital setting.
Excessive vibration.	Loose blade; worn blade; incorrect cutting technique.	Ensure blade is securely clamped. Replace blade. Apply steady, even pressure.
Blade bends or breaks.	Forcing the tool; incorrect blade for material; workpiece not secured.	Do not force the tool. Use correct blade. Secure workpiece firmly.

7. Specifications

Feature	Detail
Model Number	PCL525B
Voltage	18 Volts (DC)
Strokes Per Minute (SPM)	0 - 3,000
Stroke Length	1 inch
Bevel Capacity	0° to 45° (left or right)
Orbital Settings	4 (0, 1, 2, 3)
Blade Type	T-Shank
Recommended Surface	Wood
Item Weight	4.5 pounds
Product Dimensions	8"L x 3"W x 10"H
Included Components	Jig Saw, Non-Marring Shoe, Wood Cutting Blade, Hex Wrench, Operator’s Manual

8. Warranty and Support

The RYOBI ONE+ 18V Cordless Jig Saw (PCL525B) is backed by the RYOBI 3-Year Manufacturer's Limited Lifetime Warranty. For specific warranty details, claims, or technical support, please refer to the official RYOBI documentation included with your product or visit the official RYOBI website.

For further assistance, you may contact RYOBI Tools customer service.

Note: Battery and charger are sold separately and may have their own warranty terms.

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