RYOBI P2502BTL

RYOBI ONE+ HP 18V Brushless 10-inch Cordless Chainsaw P2502BTL User Manual

Model: P2502BTL

Introduction

This manual provides essential instructions for the safe operation, assembly, maintenance, and troubleshooting of your RYOBI ONE+ HP 18V Brushless 10-inch Cordless Chainsaw, model P2502BTL. This tool is designed for pruning and limbing tasks. Please read and understand all instructions before using the chainsaw.



Figure 1: The RYOBI ONE+ HP 18V Brushless 10-inch Cordless Chainsaw (P2502BTL) as packaged, highlighting its brushless motor, 10-inch bar and chain, and push-button oiler. Note that the battery and charger are sold separately.

Safety Information

Always prioritize safety when operating power tools. Failure to follow safety instructions can result in serious injury.

- **Read the Entire Manual:** Understand all warnings and operating instructions.
- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, gloves, and appropriate footwear.
- **Inspect the Work Area:** Clear the area of bystanders, pets, and obstacles. Ensure stable footing.
- **Inspect the Chainsaw:** Before each use, check for loose parts, damage, or proper chain tension.
- **Maintain a Firm Grip:** Hold the chainsaw with both hands.
- **Avoid Kickback:** Be aware of the kickback danger zone and avoid cutting with the tip of the guide bar.
- **Do Not Operate Under Influence:** Never operate the chainsaw while fatigued, ill, or under the influence of drugs or alcohol.
- **Battery Safety:** Use only RYOBI ONE+ 18V batteries and chargers. Remove the battery before making adjustments, cleaning, or storing the tool.

Setup

1. Unpacking

Carefully remove all components from the packaging. Verify that all parts listed in the product documentation are present and undamaged.

2. Battery Installation (Battery and Charger Sold Separately)

This chainsaw operates with a RYOBI ONE+ 18V battery (not included).

1. Ensure the battery is fully charged using a compatible RYOBI ONE+ charger.
2. Align the battery pack with the battery port on the chainsaw handle.
3. Slide the battery into the port until it clicks securely into place.
4. To remove, press the release latch and pull the battery out.

3. Bar and Chain Installation

Refer to the detailed diagrams in your included product manual for precise steps.

1. Ensure the battery is removed.
2. Remove the chain cover by loosening the nuts.
3. Place the chain around the sprocket and guide bar, ensuring the cutting edges face forward on the top of the bar.
4. Position the guide bar onto the mounting studs.
5. Replace the chain cover and hand-tighten the nuts.
6. Adjust chain tension using the tensioning screw. The chain should be snug but still able to be pulled freely by hand.
7. Fully tighten the chain cover nuts.

4. Chain Lubrication (Push Button Oiler)

The P2502BTL features a push-button oiler for easy chain lubrication.

1. Fill the oil reservoir with appropriate bar and chain oil. Do not use waste oil or thin oils.
2. Before and during operation, press the oiler button to apply oil to the chain and guide bar.
3. Regular lubrication is crucial for optimal performance and chain longevity.

Operating Instructions

1. Starting the Chainsaw

1. Ensure the battery is securely installed and the chain brake is disengaged.
2. Grip the front handle with your left hand and the rear handle with your right hand.
3. Press the lock-out button with your thumb, then squeeze the trigger to start the motor.

2. Cutting Techniques (Pruning & Limbing)

This 10-inch chainsaw is ideal for light-duty pruning and limbing.

- **Pruning:** Make cuts from the underside first to prevent bark stripping, then complete the cut from the top.
- **Limbing:** Always stand on the opposite side of the limb being cut. Be aware of falling limbs and potential spring-back.
- Maintain a stable stance and keep the chainsaw below shoulder height.
- Allow the chainsaw to do the work; do not force it through the wood.

3. Stopping the Chainsaw

Release the trigger switch. The chain will stop rotating. Engage the chain brake for added safety when not actively cutting.

Maintenance

Regular maintenance ensures the longevity and safe operation of your chainsaw. Always remove the battery before performing any maintenance.

- **Chain Sharpening:** A dull chain reduces cutting efficiency and increases kickback risk. Sharpen the chain regularly or replace it when necessary. Refer to the chain manufacturer's specifications for proper sharpening angles.
- **Bar Maintenance:** Clean the guide bar groove and oil holes regularly. Flip the guide bar periodically to ensure even wear.
- **Cleaning:** After each use, clean sawdust and debris from the chainsaw, especially around the motor housing, chain brake, and air vents. Use a brush or compressed air.
- **Storage:** Store the chainsaw in a dry, secure location out of reach of children. Ensure the chain brake is engaged and the battery is removed.

Troubleshooting

Problem	Possible Cause	Solution
Chainsaw does not start	Battery not installed or discharged; Chain brake engaged; Lock-out button not pressed.	Install charged battery; Disengage chain brake; Press lock-out button before trigger.
Poor cutting performance	Dull chain; Incorrect chain tension; Insufficient lubrication.	Sharpen or replace chain; Adjust chain tension; Apply more chain oil.
Chain stops during operation	Overload; Battery low; Chain brake accidentally engaged.	Reduce cutting pressure; Replace with charged battery; Check chain brake position.

Problem	Possible Cause	Solution
Excessive vibration	Loose chain; Damaged chain or bar; Loose components.	Adjust chain tension; Inspect and replace damaged parts; Tighten all fasteners.

Specifications

Model: P2502BTL

Brand: RYOBI

Power Source: 18V Battery Powered (RYOBI ONE+ system)

Motor Type: Brushless

Bar Length: 10 inches

Oiling System: Push Button Oiler

Item Weight: Approximately 6.4 pounds

Product Dimensions: 26 x 11 x 8.1 inches

UPC: 046396035813

Note: Battery and charger are sold separately.

Warranty and Support

Warranty Information

RYOBI products typically come with a manufacturer's warranty. For specific details regarding the warranty period and coverage for your P2502BTL chainsaw, please refer to the warranty card included with your product or visit the official RYOBI website. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, replacement parts, or service inquiries, please contact RYOBI customer support. You can find contact information on the official RYOBI website or in your product documentation.
Visit RYOBI Official Website

© 2025 RYOBI. All rights reserved. This manual is for informational purposes only.

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