Makita XRU16PT

Makita XRU16PT Brush Cutter User Manual

Model: XRU16PT | Brand: Makita

Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita XRU16PT 18V X2 (36V) LXT® Lithium-Ion Brushless Cordless Brush Cutter Kit. Designed for commercial applications, this powerful tool offers the equivalent performance of a 30cc gas brush cutter without the associated hassles of gas, emissions, or pull starts. Key features include a robust BL Brushless Motor, a comfortable bike handle design, and advanced speed control options. Please read this manual thoroughly before initial use to ensure proper assembly, safe operation, and to maximize the lifespan of your brush cutter.

Important Safety Instructions

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.

- Always wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, heavy-duty gloves, and sturdy footwear, when operating the brush cutter.
- Keep all bystanders, children, and pets at least 50 feet (15 meters) away from the work area.
- Inspect the work area for debris, rocks, or other objects that could be thrown by the blade. Clear the area before starting.
- Ensure the blade is securely fastened and the guard is properly installed before each use.
- Do not operate the brush cutter in wet conditions or in the presence of flammable liquids or gases.
- Always hold the tool firmly with both hands and maintain proper balance.
- Disconnect the battery pack before making any adjustments, changing accessories, or storing the tool.
- Use only genuine Makita batteries and chargers. The use of non-genuine or “knock-off” batteries may cause fires, personal injuries, or property damage.

Proposition 65 Warning: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

What's Included

Your Makita XRU16PT Brush Cutter Kit includes the following components:

- Makita XRU16PT Brush Cutter Unit
- 2 x 18V LXT® Lithium-Ion 5.0Ah Batteries
- Dual Port Rapid Optimum Charger
- Metal Brush Cutter Blade
- Blade Guard
- Shoulder Harness
- Assembly Tools (Wrench, Hex Key)



Image: The complete Makita XRU16PT Brush Cutter Kit, including the main unit, two 18V LXT batteries, and a dual-port rapid charger.

Assembly and Initial Setup

1. Attaching the Handle

1. Loosen the bolts on the handle clamp.
2. Position the bike handle onto the shaft, ensuring it is centered and at a comfortable working angle.
3. Tighten the bolts securely to prevent rotation during operation.

2. Installing the Blade and Guard

1. Ensure the battery is removed from the tool.
2. Attach the blade guard to the shaft using the provided screws. Ensure it is firmly secured to protect against debris.



Image: A close-up view of the black blade guard, showing its attachment point to the brush cutter shaft.

3. Place the inner flange onto the spindle.
4. Align the metal blade onto the inner flange, ensuring the cutting direction arrows on the blade match the direction of rotation indicated on the tool head.



Image: Individual components for blade attachment, including the inner flange, the metal blade, and the securing nut.

5. Place the outer flange and then the nut onto the spindle.
6. Use the provided wrench to tighten the nut firmly while holding the spindle with the hex key to prevent rotation.



Image: The metal brush cutter blade correctly installed on the tool head, with the securing nut visible.

3. Battery Installation and Charging

- Insert the two 18V LXT batteries into the battery slots on the tool until they click into place. Ensure they are fully seated.
- To charge the batteries, slide them into the dual-port rapid optimum charger. The charger indicators will show charging status.
- Makita 18V LXT Lithium-Ion Batteries feature Star Protection Computer Controls, which monitor conditions during use to protect against overloading, over-discharging, and overheating.

4. Attaching the Harness

- Put on the shoulder harness and adjust the straps for a comfortable and balanced fit. The tool should hang freely without putting strain on your arms or back.
- Attach the brush cutter to the harness hook. Ensure the tool is balanced and the blade is clear of the ground.



Image: The ergonomic shoulder harness designed for comfortable and balanced operation of the brush cutter.

Operation

1. Starting and Stopping

- To start the brush cutter, press the power button on the control panel.
- Squeeze the variable speed trigger switch to begin cutting. The cutting speed will increase as you press the trigger further.
- To stop, release the trigger switch. The blade will come to a stop.



Image: The control panel of the brush cutter, showing the power button, speed settings (1, 2, 3), and the variable speed trigger.

2. Speed Control and Automatic Torque Drive Technology

- The brush cutter offers three speed options: 4,600 RPM, 5,500 RPM, and 7,000 RPM. Select the appropriate speed using the control panel buttons.
- The Automatic Torque Drive Technology (ADT) mode automatically shifts speeds to extend run time or add power as needed, optimizing performance for varying cutting conditions.

3. Reverse Rotation Function

- If the blade becomes entangled with grass or weeds, activate the reverse rotation function to quickly clear the trimmer head. Refer to the control panel for the reverse button.

4. Cutting Techniques

- For general brush cutting, use a sweeping motion, moving the blade from right to left.
- For thicker brush, approach slowly and allow the blade to cut through the material without forcing it.
- Maintain a safe distance from the blade and ensure the blade guard is always between you and the cutting area.

5. Battery Life and Management

- Battery run time will vary based on the cutting load and selected speed. Higher speeds and thicker brush will consume battery power more quickly.
- Monitor the battery charge indicators on the tool or batteries. Recharge batteries promptly when they are low to avoid interruptions.
- For optimal performance and extended battery life, always use Makita 18V LXT Lithium-Ion Batteries with Star Protection Computer Controls.

Maintenance and Care

- **Cleaning:** After each use, remove the battery and clean the tool, especially the blade and guard, of any grass, dirt, or debris. Use a dry cloth or soft brush. Do not use harsh chemicals or abrasive cleaners.
- **Blade Inspection:** Regularly inspect the metal blade for sharpness, cracks, or damage. A dull or damaged blade can reduce efficiency and increase vibration. Replace damaged blades immediately.
- **Storage:** Store the brush cutter in a clean, dry, and secure location, out of reach of children. Remove batteries before long-term storage.
- **Extreme Protection Technology (XPT):** The brush cutter features Makita XPT, a protective seal engineered to channel water and dust away from key internal components, improving operation in harsh conditions. While XPT provides enhanced durability, it does not make the tool waterproof.

Troubleshooting Guide

Problem	Possible Cause	Solution
Tool does not start	Battery not inserted correctly Battery discharged Power button not pressed	Ensure batteries are fully seated Charge batteries fully Press the power button firmly
Reduced power or cutting efficiency	Dull or damaged blade Low battery charge Overloading the tool	Replace blade Recharge batteries Reduce cutting load; allow tool to work at its own pace
Excessive vibration	Damaged or unbalanced blade Loose blade attachment Bent shaft	Inspect and replace blade if necessary Tighten blade nut securely Contact Makita service center
Blade entangled with material	Cutting too much material at once	Activate reverse rotation function Clear material manually after removing battery Cut smaller sections

Technical Specifications

Feature	Specification

Feature	Specification
Model Number	XRU16PT
Power Source	Battery Powered (18V X2 = 36V)
Motor Type	Brushless
No-Load Speed	4,600 / 5,500 / 7,000 RPM (3-speed)
Cutting Width	9 Inches
Item Weight	29.9 pounds (13.61 kg)
Product Dimensions	75"L x 9.76"W
Batteries Required	2 Lithium Ion batteries (included)
UPC	088381889926

Warranty and Customer Support

Makita products are engineered for durability and performance. For specific warranty information regarding your XRU16PT Brush Cutter Kit, please refer to the warranty card included with your purchase or visit the official Makita website. Keep your proof of purchase for warranty claims.
For further assistance, technical support, or to locate an authorized service center, please contact Makita customer service directly. You can also refer to the official User Guide PDF for more detailed information:

Download User Guide (PDF)