Makita DUC101RF01

Makita DUC101RF01 Lithium-Ion Cordless Pruning Saw User Manual

Model: DUC101RF01 | Brand: Makita

Introduction

The Makita DUC101RF01 is a 100mm (4-inch) cordless pruning saw designed for efficient and easy pruning of garden or orchard trees. This lightweight and compact tool is powered by an 18V LXT Lithium-Ion battery, featuring a brushless motor for enhanced performance and durability. It includes a 3Ah battery and a fast charger, providing a complete solution for your pruning needs.



Figure 1: The Makita DUC101RF01 Cordless Pruning Saw, showing its compact design and battery attachment.

Important 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.

- Always wear appropriate personal protective equipment (PPE) including safety glasses, gloves, and hearing protection when operating the saw.
- Ensure the work area is clear of obstacles and well-lit.
- Keep children and bystanders away while operating a power tool.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Maintain a firm grip on the saw with both hands during operation.
- Disconnect the battery pack before making any adjustments, changing accessories, or storing the tool.
- Do not overreach. Keep proper footing and balance at all times.
- Inspect the saw chain and guide bar for damage before each use.
- Use only genuine Makita replacement parts and accessories.

Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact your dealer.

- 1x Makita DUC101 Cordless Pruning Saw
- 1x 3Ah Battery (BL1830)

- 1x Fast Charger
- 1x Saw Chain
- 1x Guide Bar
- 1x Guide Bar Cover
- 1x Round File



Figure 2: The product packaging for the Makita DUC101RF01, indicating included components.

Setup

1. Battery Installation and Charging

Before first use, fully charge the 18V Lithium-Ion battery using the provided fast charger. To install the battery, align the battery pack with the housing and slide it in until it clicks into place. To remove, press the release button and slide the battery out.



Figure 3: Rear view of the pruning saw showing the attached 18V Lithium-Ion battery.

2. Guide Bar and Saw Chain Assembly

The saw chain and guide bar may require assembly. Refer to the detailed diagrams in the full manual for precise steps. Ensure the chain is correctly oriented and seated in the guide bar groove. The tool features a tool-less chain replacement and tension adjustment mechanism for convenience.



Figure 4: Close-up view of the saw chain and guide bar assembly.

3. Chain Oil Filling

The saw features automatic chain lubrication. Fill the oil tank with appropriate chain lubricant. The oil tank has a capacity of 55ml and includes a viewing window to monitor the oil level. Ensure the tank is adequately filled before operation to prevent damage to the chain and guide bar.



Figure 5: Detail of the chain oil tank with its viewing window for easy level checks.

Operating Instructions

1. Starting the Saw

To start the saw, first engage the lock-off lever, which is accessible from both sides of the saw. Then, depress the trigger switch. Release the trigger to stop the saw. The saw is equipped with a rear hand guard and an electric brake for added safety.



Figure 6: Close-up of the trigger and ambidextrous lock-off lever.

2. Pruning Techniques

Hold the saw firmly with both hands. Position the guide bar against the branch to be cut, ensuring the chain does not contact any foreign objects. Apply steady, even pressure to allow the saw to cut through the material. Avoid forcing the saw, as this can lead to kickback or damage to the tool. Always be aware of the branch's falling direction.



Figure 7: The Makita DUC101RF01 in use, demonstrating its application for pruning branches.

3. Chain Tension Adjustment

The saw features a tool-less chain tension adjustment. Periodically check the chain tension. A properly tensioned chain should be snug against the guide bar but still allow you to pull it around the guide bar by hand. Refer to the full manual for detailed instructions on adjusting the tension lever.

Maintenance

1. Cleaning

After each use, disconnect the battery and clean the saw. Remove sawdust, chips, and debris from the guide bar, chain, and motor housing. Use a soft brush or compressed air. Do not use solvents or abrasive cleaners.

2. Chain Sharpening and Replacement

A dull chain can reduce cutting efficiency and increase the risk of kickback. Sharpen the chain regularly using the

provided round file or have it professionally sharpened. When the chain is worn beyond sharpening limits or damaged, replace it with a genuine Makita replacement chain (Chain type 80 TXL, 26 chain links, pitch 0.325”, gauge 1.1mm).

3. Guide Bar Maintenance

Periodically clean the guide bar groove to ensure proper chain movement and lubrication. Flip the guide bar regularly to ensure even wear.

Troubleshooting

Problem	Possible Cause	Solution
Saw does not start	Battery not charged or improperly installed; Lock-off lever not engaged.	Charge battery fully and ensure it is securely clicked into place; Engage the lock-off lever before pressing the trigger.
Poor cutting performance	Dull chain; Incorrect chain tension; Insufficient chain lubrication.	Sharpen or replace chain; Adjust chain tension; Refill chain oil tank.
Chain stops during operation	Overload protection activated; Battery low.	Reduce cutting pressure; Allow motor to cool; Recharge battery.
Oil leakage	Overfilled oil tank; Damaged oil seal.	Do not overfill; If leakage persists, contact authorized service center.

Specifications

Feature	Detail
Model Number	DUC101RF01
Brand	Makita
Power Source	Battery Powered
Voltage	18 Volts
Wattage	320 watts
Battery Type	Lithium Ion (1x 3Ah BL1830 included)
Blade Length	4 Inches (100mm)
Chain Pitch	0.325”
Chain Gauge	1.1mm
Chain Type	80 TXL
Chain Links	26
Chain Speed	8 Millimeters per Second
Oil Tank Capacity	55ml
Product Dimensions (L x W x H)	14.17"L x 3.94"W x 9.45"H
Item Weight	1.1 Kilograms (2.42 pounds)

Feature	Detail
Special Features	Brushless Motor, Lightweight, Automatic Chain Lubrication, Tool-less Chain Adjustment, Electric Brake
Surface Recommendation	Wood
Blade Material	Carbon Steel
Handle Material	Plastic

Warranty and Support

Warranty Information

This Makita product comes with a limited warranty. For specific details regarding the terms, conditions, and duration of your warranty, please refer to the warranty card included with your product or visit the official Makita website.

Customer Support

For technical assistance, service, or to inquire about replacement parts, please visit the official Makita website or contact their customer service department. Always provide your product model number (DUC101RF01) and serial number when seeking support.
Official Makita Website: www.makitatools.com

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