Makita DUC150Z

Makita DUC150Z 18V Li-ion LXT Brushless 150mm Pruning Saw Instruction Manual

Model: DUC150Z
Brand: Makita

1. 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.

1.1 General Power Tool Safety Warnings

- **Work Area Safety:** Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- **Electrical Safety:** Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- **Personal Safety:** Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.
- **Use Personal Protective Equipment (PPE):** Always wear eye protection. Protective equipment such as non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

1.2 Chainsaw Specific Safety Warnings

- Keep all parts of the body away from the saw chain when the chainsaw is operating. Before you start the chainsaw, make sure the saw chain is not contacting anything.
- Always hold the chainsaw with both hands when the engine is running.
- Do not operate a chainsaw in a tree. Operation of a chainsaw while in a tree may result in personal injury.
- Always be sure of your footing and operate the chainsaw only when standing on a fixed, secure, and level surface.
- When cutting a limb that is under tension, be alert for spring back.
- Carry the chainsaw by the front handle with the chainsaw switched off and away from your body.
- Follow instructions for lubricating, chain tensioning and changing accessories.

2. Product Overview

The Makita DUC150Z is a compact and lightweight cordless pruning saw designed for efficient pruning tasks. It is powered by an 18V Li-ion LXT slide-type battery (not included) and features a powerful brushless motor, delivering a chain speed of up to 8.0 meters per second and 350W maximum output.

Key features include a lock-off lever accessible from either side, an electric brake for immediate chain stop, and a tool-less mechanism for easy chain change and tension adjustment. The saw also boasts automatic chain lubrication with a 55ml oil tank and a convenient viewing window to monitor oil levels. For user safety, it incorporates a rear hand guard and a movable chain guard that adjusts as the chain cuts deeper into the material.



Figure 2.1: Makita DUC150Z Pruning Saw, showcasing its compact design and chain.

2.1 Product Features

- Compact and lightweight design for easy handling.
- Powerful 18V brushless motor for efficient cutting.
- Tool-less chain change and tension adjustment for quick setup.
- Automatic chain lubrication with a 55ml oil tank and viewing window.
- Lock-off lever accessible from both sides for enhanced safety.
- Electric brake for immediate chain stop.
- Rear hand guard and movable chain guard for user protection.
- Maximum cutting length of 161mm.
- Utilizes 80 TXL chain with 32 links, 0.325” pitch, and 1.1mm gauge.

3. Setup

3.1 Battery Installation

1. Ensure the pruning saw is switched off and the lock-off lever is engaged.
2. Align the 18V Li-ion LXT slide-type battery (sold separately) with the battery slot on the tool.
3. Slide the battery firmly into place until it clicks, indicating it is securely locked.
4. To remove, press the release button on the battery and slide it out.

3.2 Chain and Guide Bar Installation/Adjustment

The DUC150Z features a tool-less system for chain and guide bar management.

1. Ensure the battery is removed for safety.
2. Locate the chain cover knob on the side of the saw.
3. Rotate the knob counter-clockwise to loosen and remove the chain cover.
4. Carefully place the saw chain around the sprocket and guide bar, ensuring the cutting edges are facing the correct direction.
5. Re-attach the chain cover and rotate the knob clockwise to secure it.
6. To adjust chain tension, simply loosen the knob slightly, and the saw will automatically adjust the tension. Retighten the knob firmly. The chain should be snug but still able to be pulled freely by hand.



Figure 3.1: Proper installation of the chain and guide bar on the pruning saw.

3.3 Chain Oil Filling

1. Ensure the saw is off and the battery is removed.

2. Locate the oil tank cap, typically on the top or side of the saw body.
3. Unscrew the cap and fill the oil tank with appropriate chain lubricant. The tank has a 55ml capacity.
4. Monitor the oil level using the chain oil viewing window.
5. Securely replace the oil tank cap.

4. Operating Instructions

4.1 Starting and Stopping the Saw

1. Ensure the battery is fully charged and properly installed.
2. Hold the saw firmly with both hands.
3. To start, depress the lock-off lever (accessible from either side) and then squeeze the trigger switch. The saw chain will begin to move.
4. To stop, release the trigger switch. The electric brake will immediately stop the chain.

4.2 Pruning Techniques

Always ensure stable footing and clear the work area of any obstructions before beginning to cut.

- **Small Branches:** For branches within the 161mm maximum cutting length, position the saw firmly against the branch and apply steady pressure.
- **Larger Branches:** For thicker branches, consider making an undercut first to prevent pinching and splintering.
- **Avoid Kickback:** Be aware of the kickback danger zone at the tip of the guide bar. Always cut with the bottom of the guide bar, pushing the saw into the wood.



Figure 4.1: User demonstrating the pruning saw in action on a tree branch.



Figure 4.2: The pruning saw being used to cut a log on the ground.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Makita DUC150Z Pruning Saw.

5.1 Chain Sharpening

A sharp chain is crucial for safe and efficient cutting. Sharpen the chain regularly or when you notice reduced cutting performance or excessive sawdust instead of chips.

- Refer to the chain manufacturer's instructions for the correct file size and sharpening angles.
- Use a file set (included with some models) to sharpen each cutting tooth.
- Ensure all teeth are sharpened uniformly.

5.2 Chain Lubrication

The saw features automatic chain lubrication. Always ensure the oil tank is filled before use.

- Check the oil level frequently using the chain oil viewing window.
- Refill the 55ml oil tank with appropriate chain lubricant as needed.
- Never operate the saw with an empty oil tank, as this can cause severe damage to the chain and guide bar.

5.3 Cleaning and Storage

- After each use, remove the battery and clean the saw thoroughly.
- Remove sawdust, chips, and debris from the chain, guide bar, and motor housing.
- Store the saw in a dry, secure place, out of reach of children and away from direct sunlight or extreme temperatures.
- Always use the guide bar case (if included) when storing or transporting the saw.

6. Troubleshooting

This section provides solutions to common issues you might encounter with your Makita DUC150Z Pruning Saw.

Problem	Possible Cause	Solution
Saw does not start	Battery not installed correctly Battery discharged Lock-off lever not depressed	Ensure battery is fully clicked into place Charge the battery Depress the lock-off lever before squeezing the trigger
Chain does not move or moves slowly	Chain tension too tight Chain dull or damaged Obstruction in guide bar/chain area	Loosen chain cover knob for automatic tension adjustment, then retighten Sharpen or replace chain Remove battery and clear any debris
Poor cutting performance	Dull chain Incorrect chain tension Insufficient chain lubrication	Sharpen or replace chain Adjust chain tension Fill oil tank and ensure automatic lubrication is working
Excessive vibration	Loose chain Damaged chain or guide bar Loose components	Adjust chain tension Inspect and replace damaged parts Check all screws and fasteners are tight

If the problem persists after attempting these solutions, please contact Makita customer support or an authorized service center.

7. Specifications

Specification	Detail
Brand	Makita
Model Number	DUC150Z
Voltage	18 Volts

Specification	Detail
Power Source	Battery Powered
Item Weight	2 Kilograms (4.4 pounds)
Product Dimensions (L x W x H)	18.07" x 3.54" x 9.8"
Maximum Cutting Length	161mm
Chain Type	80 TXL chain with 32 links
Chain Pitch	0.325”
Chain Gauge	1.1mm
Oil Tank Capacity	55ml
Special Features	Tool-less Chain Adjustment, Automatic Chain Lubrication, Safety Lock-off Lever, Hand Guard, Large Oil Tank, High-quality Chain
Surface Recommendation	Wood
Manufacturer	Makita
UPC	197050000835

8. Warranty and Support

8.1 Manufacturer's Warranty

This Makita DUC150Z Pruning Saw comes with a **1-year manufacturer warranty**. An additional **2 years of warranty** can be obtained when the product is registered within 30 days of purchase.
Please note that this guarantee does not apply where non-genuine or non-recommended parts or accessories are fitted to the tool. The use of non-genuine or compatible batteries and chargers with Makita tools will invalidate the Makita guarantee for our tools.

8.2 Customer Support

For technical assistance, spare parts, or warranty claims, please contact Makita customer support through their official website or an authorized service center in your region. Always provide your product model number (DUC150Z) and serial number when seeking support.

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

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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