Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Makita DSS501Z

Makita DSS501Z 18V LXT Cordless Circular Saw User Manual

Model: DSS501Z

1. Introduction

Thank you for choosing the Makita DSS501Z 18V LXT Cordless Circular Saw. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your tool. Please read this manual thoroughly before use and keep it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and extend the life of your circular saw.
The Makita DSS501Z is a compact and powerful cordless circular saw designed for various cutting applications in wood. It features an 18V LXT battery system, a 136mm TCT blade, and a no-load speed of 3600 RPM, offering a depth of cut up to 51mm at 90 degrees and 35mm at 45 degrees. Key features include an LED job light for improved visibility, a removable dust nozzle, and a double safety trigger with a large lock-off lever for enhanced user safety.

2. General 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.

2.1 Work Area Safety

- Keep the 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. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.2 Electrical Safety (Battery-Specific)

- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the tool.
- Disconnect the battery pack from the tool before making any adjustments, changing accessories, or storing power tools.
- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery

pack may create a risk of fire when used with another battery pack.

- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

2.3 Personal Safety

- Always wear eye protection (safety glasses or goggles) and hearing protection.
- Wear a dust mask when operating in dusty conditions.
- 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.

2.4 Circular Saw Specific Safety

- **DANGER: Keep hands away from cutting area and the blade.**Keep your second hand on the auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
- Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.
- Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade should be visible below the workpiece.
- Never hold the workpiece in your hands or across your leg while cutting. Secure the workpiece to a stable platform.
- Hold the power tool by insulated gripping surfaces when performing an operation where the cutting accessory may contact hidden wiring.
- Always use blades with the correct size and shape (diamond versus round) of arbor holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.
- **KICKBACK** is a sudden reaction to a pinched, bound, or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator. Avoid kickback by maintaining a firm grip on the saw, positioning your body and arm to resist kickback forces, and ensuring the workpiece is properly supported.

3. Product Overview

Familiarize yourself with the components of your Makita DSS501Z Circular Saw.



Figure 1: Overall view of the Makita DSS501Z 18V LXT Cordless Circular Saw with an 18V Lithium-Ion battery attached.



Figure 2: Close-up view of the ergonomic handle and the double safety trigger mechanism, including the lock-off lever.



Figure 3: Detail of the cutting depth adjustment lever and scale, allowing precise control over cut depth.



Figure 4: Detail of the bevel angle adjustment mechanism, showing the lever and angle scale for angled cuts.

4. Setup

4.1 Battery Installation and Removal

1. To install: Align the battery pack with the housing slot and slide it in until it clicks into place. Ensure it is fully seated.
2. To remove: Press the release button on the battery pack and slide it out of the tool.

Note: Always ensure the battery is fully charged before use for optimal performance.

4.2 Blade Installation and Removal

WARNING: Always remove the battery pack before installing or removing the blade.

1. Lift the blade guard lever to expose the blade arbor.
2. Press the shaft lock button to prevent the blade from rotating.
3. Using the provided hex wrench, loosen and remove the arbor bolt and outer flange.
4. Carefully remove the old blade.
5. Install the new blade, ensuring the teeth are pointing in the direction of rotation indicated by the arrow on the saw.
6. Replace the outer flange and arbor bolt. Tighten securely while holding the shaft lock button.
7. Release the blade guard lever.

4.3 Adjusting Cutting Depth

1. Loosen the depth adjustment lever (refer to Figure 3).
2. Raise or lower the base plate to achieve the desired cutting depth. The scale indicates the depth.
3. Tighten the depth adjustment lever firmly.
4. Ensure that less than a full tooth of the blade extends below the workpiece for safe and efficient cutting.

4.4 Adjusting Bevel Angle

1. Loosen the bevel adjustment lever (refer to Figure 4).
2. Tilt the saw base to the desired angle (0-45 degrees) using the angle scale.
3. Tighten the bevel adjustment lever securely.

5. Operation

5.1 Starting and Stopping the Saw

1. To start: Press the large lock-off lever (safety button) with your thumb, then squeeze the trigger switch.
2. To stop: Release the trigger switch. The blade will stop quickly due to the integrated brake feature.

5.2 Making a Cut

1. Secure the workpiece firmly to prevent movement during cutting.
2. Align the saw blade with your cutting line. The LED job light will illuminate the cutting area for better visibility.
3. Start the saw and allow the blade to reach full speed before contacting the workpiece.
4. Guide the saw smoothly and steadily through the workpiece. Do not force the saw; let the blade do the work.
5. Maintain a firm grip with both hands and keep your body balanced.
6. Once the cut is complete, release the trigger and allow the blade to stop completely before lifting the saw from the workpiece.



Figure 5: A user demonstrating the proper two-hand grip while making a straight cut with the Makita DSS501Z.



Figure 6: A user performing a bevel cut, showcasing the saw's adjustable base plate for angled operations.

5.3 Dust Management

The saw is equipped with a removable dust nozzle. For cleaner operation and to reduce airborne dust, connect a suitable dust extraction system to the nozzle.

6. Maintenance

WARNING: Always remove the battery pack before performing any maintenance or cleaning.

6.1 Cleaning

- Regularly clean the saw's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Clear dust and debris from the ventilation openings to prevent overheating.
- Ensure the lower blade guard moves freely and is free of sawdust or debris.

6.2 Blade Inspection and Replacement

- Inspect the blade regularly for sharpness, cracks, or missing teeth. A dull or damaged blade can cause kickback and poor cuts.
- Replace worn or damaged blades promptly with a suitable 136mm TCT blade.

6.3 Battery Care

- Store battery packs in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not store battery packs in a discharged state for extended periods. Recharge them periodically.
- Refer to your battery charger's manual for specific charging and storage instructions.

7. Troubleshooting

Problem	Possible Cause	Solution
Saw does not start	Battery not installed correctly Battery discharged Safety lock-off lever not pressed Faulty switch	Re-install battery securely Charge battery Ensure lock-off lever is pressed before trigger Contact service center
Poor cutting performance / Blade binds	Dull or damaged blade Incorrect cutting depth Workpiece not secured Forcing the saw	Replace blade Adjust cutting depth correctly Secure workpiece firmly Allow saw to cut at its own pace
Excessive vibration	Loose blade Damaged blade Bent arbor	Tighten blade arbor bolt Replace blade Contact service center
Motor overheats	Blocked ventilation slots Overloading the saw	Clean ventilation slots Reduce cutting pressure; allow saw to cool

8. Specifications

Feature	Specification
Model Number	DSS501Z
Voltage	18 Volts
Power Source	Battery Powered (Lithium Ion)
No Load Speed	3600 RPM
Blade Diameter	136 mm
Depth of Cut (90°)	51 mm
Depth of Cut (45°)	35 mm

Feature	Specification
Blade Material	High Speed Steel (TCT Blade recommended)
Item Weight	6.7 Pounds (approx. 3.04 kg)
Product Dimensions	5.91 x 3.94 x 4.18 inches
Special Features	Brake, LED Job Light, Removable Dust Nozzle

9. Warranty and Support

Important Notice Regarding Parallel Import:
This product is a genuine item manufactured by Makita. However, it is lawfully offered for sale under the First Sale Doctrine as a parallel import. While authentic and functionally equivalent to officially distributed items, it may differ in model number, included accessories, packaging design, user manuals, and warranty coverage compared to products sold directly through official channels in your region (e.g., the United States).
As such, this product **may not be eligible for manufacturer warranty coverage or direct customer support within the United States**. Please review your purchase documentation for any specific warranty provided by your seller.
For technical assistance or inquiries, please refer to the contact information provided by your retailer or the official Makita website for general product information.

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

Open the live page

https://manuals.plus/asin/B00KGT542Y

More documents and user manuals: **https://manuals.plus/**