Makita LS1018LN

Makita LS1018LN Miter Saw User Manual

Model: LS1018LN | Brand: Makita

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Makita LS1018LN Miter Saw. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.



Figure 1: Overall view of the Makita LS1018LN Miter Saw, showcasing its compact design and key components.

The Makita LS1018LN is a powerful sliding compound miter saw designed for precise cutting of wood and similar materials. It features a laser line for accurate alignment, a sliding mechanism for increased cutting capacity, and adjustable bevel and miter angles for versatile applications.

2. Safety Instructions

WARNING: Always follow basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury.

- **Read All Instructions:** Familiarize yourself with the tool's operation and safety guidelines before use.
- **Wear Eye Protection:** Always wear safety glasses or goggles to protect against flying debris.
- **Use Hearing Protection:** Wear ear protection during operation to prevent hearing damage.
- **Secure Workpiece:** Always clamp or otherwise secure the workpiece firmly to the miter saw table. Never hold it by hand.
- **Keep Hands Clear:** Maintain a safe distance from the blade. Never reach into the blade area when the saw is running.
- **Proper Ventilation:** Ensure adequate ventilation when working, especially when cutting materials that produce fine dust.

- **Unplug Before Adjustments:** Disconnect the saw from the power source before making any adjustments, changing blades, or performing maintenance.
- **Maintain Sharp Blades:** Use sharp, clean blades. Dull blades can cause kickback and reduce cutting efficiency.
- **Dust Collection:** Connect a dust extraction device or use the provided dust bag to minimize airborne dust.

3. Components Overview

Understand the main parts of your Makita LS1018LN Miter Saw:

- **Saw Head:** Contains the motor, blade, and blade guard.
- **Sliding Rails:** Allows the saw head to slide for increased cross-cutting capacity.
- **Miter Table:** Rotates for miter cuts (left up to 47°, right up to 60°).
- **Miter Angle Scale and Lock:** For setting and securing the miter angle.
- **Bevel Angle Adjustment:** Allows the saw head to tilt for bevel cuts (left and right up to 45°).
- **Laser Line:** Projects a line onto the workpiece for precise cutting alignment.
- **Workpiece Clamp:** Secures the material during cutting.
- **Dust Bag:** Collects sawdust during operation.
- **Support Extensions:** Provides additional support for longer workpieces.



Figure 2: Side view of the miter saw, showing the sliding rail mechanism for extended cutting capacity.

4. Setup

Before first use, ensure the saw is properly assembled and adjusted.

1. **Unpacking:** Carefully remove the saw and all accessories from the packaging. Check for any damage.
2. **Mounting:** Securely mount the miter saw to a stable workbench or a compatible miter saw stand using appropriate bolts.
3. **Install Dust Bag:** Attach the dust bag to the dust port on the saw head. For better dust collection, connect a vacuum cleaner.
4. **Adjust Support Extensions:** Extend the workpiece support extensions as needed for your material.

5. **Check Blade:** Ensure the 260mm saw blade (40 teeth) is correctly installed and secured. The blade rotation direction must match the arrow on the saw.
6. **Laser Line Adjustment:** The laser line is pre-calibrated, but you can verify its alignment with a test cut. Adjust if necessary according to the detailed instructions in the full manual.

5. Operating Instructions

The Makita LS1018LN offers versatile cutting options:

5.1. Straight Cross Cuts (0° Miter, 0° Bevel)

1. Set the miter table to 0° and lock it.
2. Ensure the saw head is at 0° bevel.
3. Place the workpiece firmly against the fence and secure it with the clamp.
4. Align the laser line with your cut mark.
5. Start the saw and allow the blade to reach full speed.
6. Slowly lower the saw head through the material, pushing it back if using the sliding feature.
7. Once the cut is complete, release the trigger and allow the blade to stop before raising the saw head.

5.2. Miter Cuts



Figure 3: Close-up view of the miter angle adjustment scale, showing precise angle settings.

1. Loosen the miter lock handle.
2. Rotate the miter table to the desired angle (up to 47° left, 60° right) using the scale.
3. Lock the miter table securely.
4. Proceed with the cut as described for straight cross cuts.

5.3. Bevel Cuts



Figure 4: Detailed view of the saw blade area and the bevel angle scale, indicating the blade's tilt capability.

1. Loosen the bevel lock knob.
2. Tilt the saw head to the desired bevel angle (up to 45° left or right).
3. Securely lock the bevel angle.
4. Proceed with the cut, ensuring the workpiece is stable.

5.4. Compound Cuts (Miter and Bevel)

Combine the steps for miter and bevel cuts to achieve compound angles. Always perform a test cut on scrap material to verify settings.

6. Maintenance

Regular maintenance ensures the longevity and performance of your miter saw.

- **Cleaning:** After each use, clean the saw of dust and debris. Use a brush or compressed air. Do not use solvents that could damage plastic parts.
- **Blade Changes:** Always unplug the saw before changing the blade. Use the provided socket wrench to loosen the arbor bolt. Ensure the new blade is the correct size (260mm diameter, 30mm bore) and type for your application.
- **Sliding Rails:** Keep the sliding rails clean and lightly lubricated with a non-gumming lubricant to ensure smooth operation.
- **Carbon Brushes:** Periodically check the carbon brushes for wear. Replace them when they are worn down to the limit mark.
- **Power Cord:** Inspect the power cord for damage. Do not use the saw if the cord is frayed or cut.

7. Troubleshooting

Common issues and their solutions:

Problem	Possible Cause	Solution
Saw does not start	No power supply; damaged cord; faulty switch	Check power outlet and cord; consult a qualified technician for switch replacement.
Blade not cutting smoothly	Dull or dirty blade; incorrect blade for material	Replace or sharpen blade; use appropriate blade for material.
Excessive vibration	Loose blade; damaged blade; unstable mounting	Tighten blade arbor bolt; replace damaged blade; ensure saw is securely mounted.
Laser line not visible/accurate	Dust on laser lens; misaligned laser	Clean laser lens; refer to manual for laser adjustment.
Dust collection ineffective	Dust bag full; dust port clogged; poor seal	Empty dust bag; clear dust port; check connections.

8. Specifications

Feature	Specification
Model Number	LS1018LN
Power Input	1430 W
No-Load Speed	4,300 RPM
Blade Diameter	260 mm
Bore Diameter	30 mm
Max. Cutting Capacity (0° Miter)	91 x 310 mm / 100 x 260 mm
Max. Cutting Capacity (45° Miter)	91 x 220 mm / 100 x 140 mm
Miter Angle Range	47° Left to 60° Right
Bevel Angle Range	45° Left to 45° Right
Dimensions (L x W x H)	825 x 536 x 633 mm
Weight	20.6 kg
Power Supply	Corded Electric (240 Volts)
Special Features	Laser Line, Soft Start, Electric Brake

9. Warranty and Support

Makita products are manufactured under strict quality control. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions, including the warranty period and coverage.

For technical support, service, or spare parts, please contact your authorized Makita service center or the retailer where you purchased the product. When contacting support, please have your model number (LS1018LN) and serial number ready.

Spare parts availability for this model is typically 1 year from the date of purchase.

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