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Makita LS0815F

Makita LS0815F Slide Compound Miter Saw User Manual

Model: LS0815F

Product Overview

The Makita 8-1/2" Slide Compound Miter Saw (model LS0815F) is designed for portability and powerful cutting performance. It combines these features with a powerful direct-drive motor. Portable and powerful, the LS0815F is an ideal cutting solution for applications ranging from woodworking and carpentry to room-to-room applications like finish, trim, and flooring installation.



Figure 1: Front view of the Makita LS0815F Slide Compound Miter Saw.

Key Features:

- Compact and Lightweight Design for Job Site Portability (31.1 lbs.)
- Powerful 10.5 AMP direct drive motor requires less maintenance and delivers 5,000 RPM
- Miters 0-50 Degrees left & 0-60 Degrees right, with positive stops at 0, 15, 22.5, 31.6, 45 and 50 Degrees (left and right) plus 60 Degrees (right)
- Cuts up to 12" at 90 Degrees and 8-1/2" at 45 Degrees
- Ergonomic rubberized handle design with large trigger for added comfort
- L.E.D. light illuminates the line of cut for improved visibility

Setup and Assembly

Before operating the miter saw, ensure it is properly assembled and secured to a stable workbench or stand. Refer to the detailed instructions in the official PDF user manual for complete assembly steps.

Initial Setup Steps:

1. Unpack all components and verify against the packing list.
2. Attach the handle and any auxiliary supports as per the manual.
3. Ensure the blade is correctly installed and secured.
4. Connect the dust bag or a dust extraction system.
5. Familiarize yourself with all safety features and controls.

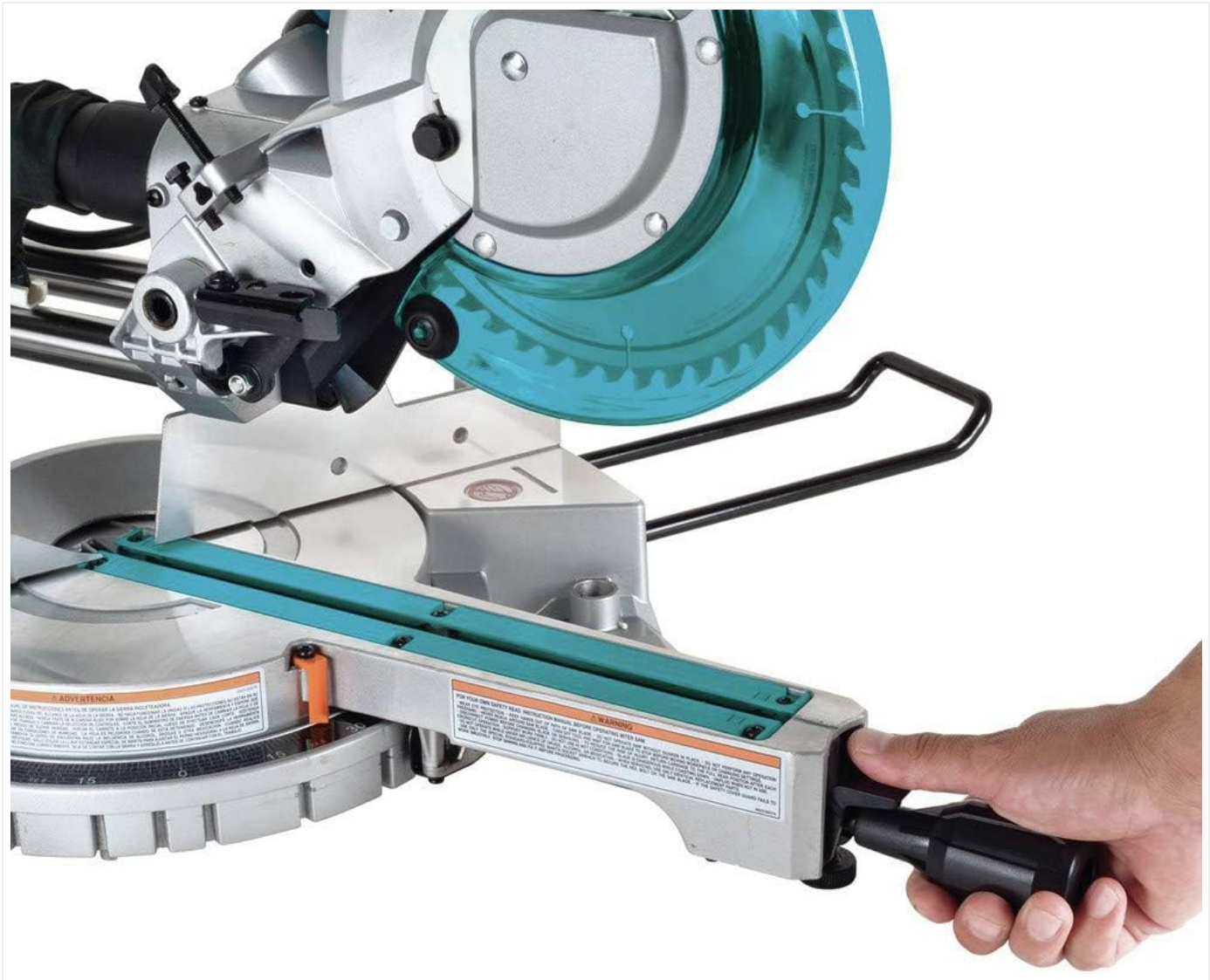


Figure 2: Adjusting the fence for precise cuts.

Operating Instructions

Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and a dust mask when operating the miter saw. Ensure the workpiece is securely clamped before making any cuts.

Basic Operation:

1. **Power Connection:** Connect the saw to a suitable 120V power outlet.
2. **Adjusting Miter Angle:** Loosen the miter lock handle and pivot the turntable to the desired angle (0-50° left, 0-60° right). Securely tighten the handle.
3. **Adjusting Bevel Angle:** Loosen the bevel lock lever and tilt the saw head to the desired angle. Securely tighten the lever.
4. **Workpiece Placement:** Place the workpiece firmly against the fence and table. Use clamps to secure it.
5. **Cutting:** Depress the trigger to start the saw. Allow the blade to reach full speed before slowly lowering it through the workpiece. For sliding cuts, pull the saw head forward, lower the blade, and push it smoothly through the material.
6. **LED Light:** The integrated LED light illuminates the cutting line for enhanced visibility.



Figure 3: Securing the workpiece with a clamp before cutting.



Figure 4: Demonstrating a crosscut on a wooden board.

Official Product Video:

[redacted]

Video 1: An official product video demonstrating the features and operation of the Makita LS0815F Slide Compound Miter Saw, including its portability, accuracy, capacity, and comfort features. This video highlights the linear ball bearing system for smooth cuts and the LED light for improved visibility.

Maintenance

Regular maintenance ensures the longevity and safe operation of your Makita miter saw. Always disconnect the saw from the power source before performing any maintenance or cleaning.

Maintenance Tips:

- **Cleaning:** Regularly clean dust and debris from the saw, especially around the blade guard, motor vents, and sliding rails. Use compressed air if available.

- **Blade Inspection:** Inspect the saw blade for sharpness, damage, or missing teeth. Replace dull or damaged blades promptly.
- **Lubrication:** Periodically lubricate the sliding rails and other moving parts as specified in the full user manual.
- **Carbon Brushes:** Check carbon brushes periodically and replace them when they are worn down to the limit mark.
- **Cord Inspection:** Inspect the power cord for any damage. Do not use the saw if the cord is frayed or damaged.



Figure 5: Detail of the bevel adjustment mechanism, which should be kept clean.

Troubleshooting

This section provides solutions to common issues you might encounter with your miter saw. For more complex problems, consult a qualified service technician or the official user manual.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Saw does not start	No power supply; Damaged power cord; Faulty switch	Check power connection; Inspect cord for damage; Contact service center
Excessive vibration	Loose blade; Damaged blade; Unbalanced workpiece	Tighten blade; Replace blade; Secure workpiece properly
Blade not cutting smoothly	Dull blade; Incorrect blade for material; Accumulation of sawdust	Replace or sharpen blade; Use appropriate blade; Clean saw thoroughly
Motor overheating	Blocked ventilation; Overloading the motor	Clear vents; Reduce cutting pressure; Allow motor to cool

Technical Specifications

Attribute	Detail
Brand	Makita
Model Number	LS0815F
Power Source	Corded Electric
Voltage	120 Volts
Current Rating	10.5 Amps
Speed	5000 RPM
Blade Size	8-1/2 Inches
Number of Teeth	60
Crosscutting Capacity (90°)	Up to 12 Inches
Crosscutting Capacity (45° Miter)	Up to 8-1/2 Inches
Miter Range (Left)	0° - 50°
Miter Range (Right)	0° - 60°
Item Weight	31.1 Pounds
Product Dimensions (L x W x H)	30" x 18" x 20"
Special Feature	Electric Brake, LED Light

Warranty and Support

The Makita LS0815F Slide Compound Miter Saw comes with a **1 Year Limited Warranty**. For detailed warranty information, service, or technical support, please refer to the official user manual or contact Makita customer service.
You can download the complete User Manual in PDF format from the official Makita website or via the following link: Makita LS0815F User Manual (PDF).
For additional support and product information, visit the official Makita Store: Makita Store on Amazon.

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