Makita LS0816F

Makita LS0816F 8-1/2" Slide Compound Miter Saw

Instruction Manual

Model: LS0816F | **Brand:** Makita

1. Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Makita LS0816F 8-1/2" Slide Compound Miter Saw. Please read this manual thoroughly before operating the tool to ensure proper use and to prevent injury or damage.

The Makita LS0816F is a compact and lightweight slide compound miter saw designed for precision cutting in various applications, including baseboard and crown molding installation, and general woodworking. It features a powerful 10.5 AMP direct drive motor, a linear ball bearing system for accurate cuts, and an integrated LED light for improved visibility.

2. Safety Information

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 General Power Tool Safety

- **Work Area Safety:** Keep 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Wear a dust mask if operations create dust. Do not overreach. Keep proper footing and balance at all times.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.

2.2 Miter Saw Specific Safety

- Always keep hands away from the cutting area and the blade.

- Do not reach underneath the workpiece when the blade is rotating.
- Ensure the blade is sharp and correctly installed.
- Secure the workpiece firmly with clamps or a vise before cutting.
- Allow the blade to reach full speed before beginning a cut.
- Never attempt to remove cut material while the blade is moving.
- Ensure the dust bag or dust extraction system is properly attached and functioning.

3. Product Components

Familiarize yourself with the various parts of your Makita LS0816F miter saw.



Figure 3.1: Overview of the Makita LS0816F Slide Compound Miter Saw, showing the main body, blade, guard, and dust bag.

- **Motor Housing:** Contains the 10.5 AMP direct drive motor.
- **Blade Guard:** Transparent guard for visibility and safety.
- **Blade:** 8-1/2 inch cutting blade.
- **Base:** Precision machined aluminum base for material support.
- **Fence System:** 2-1/2 inch tall fence for vertical cutting capacity.

- **Miter Scale:** For setting miter angles (0°-47° left/right).
- **Bevel Scale:** For setting bevel angles (0°-47° left, 0°-2° right).
- **Slide Rails:** For extended cross-cutting capacity.
- **Dust Bag:** Collects sawdust during operation.
- **D-Handle:** Ergonomic rubberized grip for comfort and control.
- **LED Light:** Illuminates the line of cut.
- **Workpiece Clamp:** Secures material during cutting.
- **Extension Wings:** Provide additional support for long workpieces.

4. Setup and Assembly

4.1 Unpacking and Inspection

Carefully remove the saw and all accessories from the packaging. Inspect for any damage that may have occurred during shipping. Report any damage immediately to your dealer.

4.2 Attaching Extension Wings

The saw includes extension wings for supporting longer workpieces. Locate the mounting holes on the sides of the saw base. Secure the extension wings using the provided fasteners, ensuring they are level with the saw base.

4.3 Blade Installation and Removal

1. **Disconnect Power:** Always unplug the saw from the power source before working on the blade.
2. **Raise Blade Guard:** Lift the lower blade guard.
3. **Loosen Arbor Bolt:** Use the provided wrench to loosen the arbor bolt that secures the blade. Note that the bolt may have a left-hand thread.
4. **Remove Blade:** Carefully remove the old blade, noting the direction of rotation.
5. **Install New Blade:** Place the new blade onto the arbor, ensuring the teeth are pointing in the correct direction (usually indicated by an arrow on the blade and saw).
6. **Tighten Arbor Bolt:** Securely tighten the arbor bolt.
7. **Lower Blade Guard:** Ensure the blade guard operates freely.

4.4 Initial Adjustments

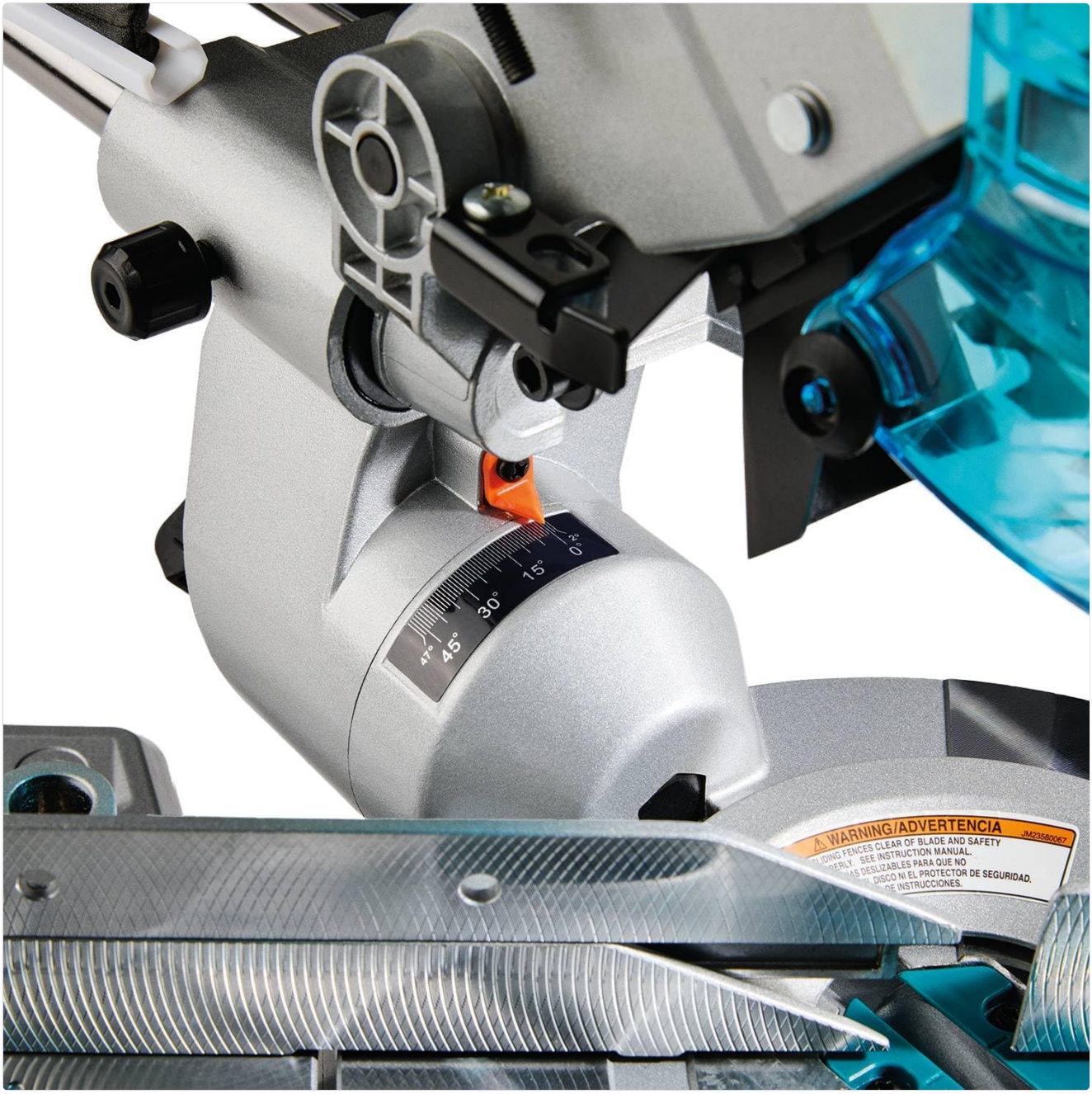


Figure 4.1: Bevel adjustment mechanism, showing the scale and locking lever.

- **Miter Angle Adjustment:** To adjust the miter angle, depress the miter lock lever and rotate the turntable to the desired angle on the miter scale. Positive stops are provided at common angles (0°, 15°, 22.5°, 31.6°, 45°, 47°). Release the lever to lock the angle.
- **Bevel Angle Adjustment:** The dual rear handle bevel lock allows adjustment from 0°-47° left and 0°-2° right. Loosen the bevel lock knob, tilt the saw head to the desired angle on the bevel scale, and tighten the knob to secure. Positive stops are at 0° and 45° left.
- **Fence Adjustment:** Ensure the fence is properly aligned and secured. The 2-1/2" tall fence system provides increased vertical cutting capacity.
- **Workpiece Clamp:** The workpiece clamp can be adjusted to securely hold various material sizes. Position the clamp to firmly hold the workpiece against the fence and base.



Figure 4.2: Adjusting the workpiece clamp to secure material.

5. Operating Instructions

5.1 Basic Cutting Procedures



Figure 5.1: Performing a cut with the Makita LS0816F miter saw.

1. **Prepare Workpiece:** Mark your cut line clearly on the workpiece.
2. **Position Workpiece:** Place the workpiece firmly against the fence and the base. Use the workpiece clamp to secure it.
3. **Set Angles:** Adjust the miter and/or bevel angles as required for your cut.
4. **Power On:** Plug the saw into a suitable 120V power outlet.
5. **Activate LED Light (if desired):** Press the LED light button to illuminate the cut line for increased accuracy.

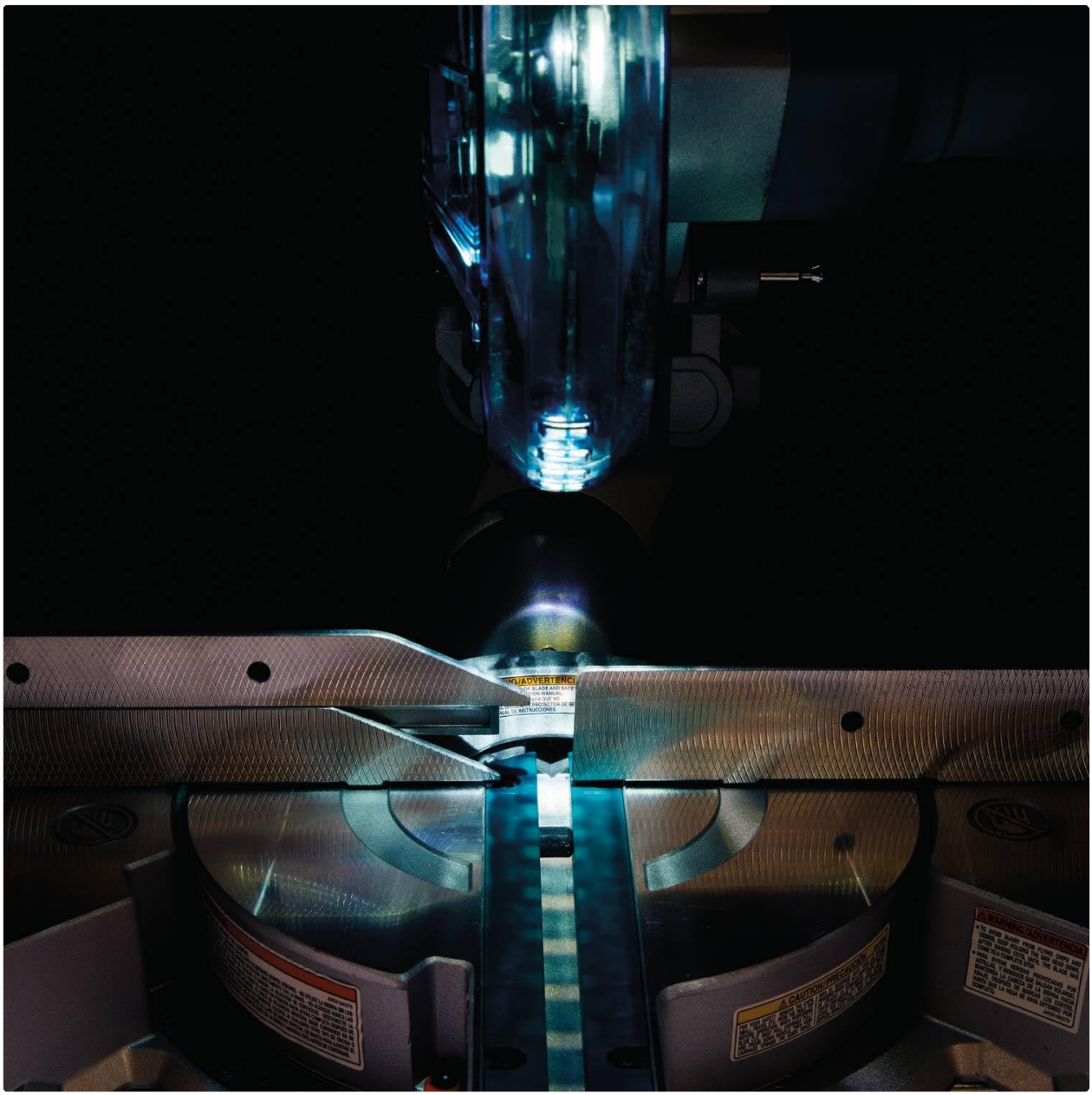


Figure 5.2: The built-in LED light illuminating the cutting path for enhanced precision.

6. **Start Saw:** Depress the trigger switch to start the motor. Allow the blade to reach full operating speed (5,000 RPM) before beginning the cut. The soft start feature ensures smooth start-ups.
7. **Perform Cut:**
    - For crosscuts or miter cuts, slowly lower the saw head through the workpiece.
    - For slide cuts (to cut wider material up to 12" at 90°), pull the saw head forward, lower it into the workpiece, and push it smoothly back through the material.
8. **Complete Cut:** Once the cut is complete, release the trigger switch and allow the blade to stop completely before raising the saw head. The electric brake assists in quick blade stops.
9. **Remove Workpiece:** Unclamp and remove the cut material.

5.2 Dust Collection

The saw is equipped with a dust bag to collect sawdust. Ensure the dust bag is properly attached before operation. Empty the dust bag regularly to maintain effective dust collection. For larger operations, connect the saw to a compatible dust extractor for improved dust management.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your miter saw. Always disconnect the saw from the power source before performing any maintenance.

6.1 Cleaning

- After each use, clean the saw of sawdust and debris using a brush or compressed air.
- Pay particular attention to the blade guard, miter scale, and slide rails to ensure smooth operation.
- Do not use solvents or harsh chemicals that could damage plastic parts.

6.2 Blade Care

- Inspect the blade regularly for sharpness, cracks, or missing teeth. A dull blade can cause kickback and poor cut quality.
- Replace damaged or dull blades promptly.
- Clean resin and pitch buildup from the blade using a suitable blade cleaner.

6.3 Slide Rail Lubrication

Periodically apply a thin coat of non-gumming lubricant to the slide rails to ensure smooth sliding action. Wipe off any excess lubricant.

6.4 Carbon Brush Inspection (if applicable)

The direct drive motor is designed for low maintenance. Refer to the detailed service manual for information on carbon brush inspection and replacement, if required for your specific model variant.

7. Troubleshooting

This section addresses common issues you might encounter with your miter saw.

Problem	Possible Cause	Solution
Saw does not start.	No power supply; faulty switch; motor issue.	Check power cord and outlet. Ensure switch is fully depressed. If problem persists, seek professional service.
Inaccurate cuts.	Blade dull or damaged; fence/bevel/miter settings incorrect; workpiece not secured.	Replace blade. Verify all angle settings are locked. Secure workpiece firmly with clamp.
Excessive vibration or noise.	Loose blade; damaged blade; worn bearings.	Check blade for tightness and damage. Replace blade if damaged. If bearings are suspected, contact service center.
Sawdust not collected effectively.	Dust bag full or improperly attached; dust port clogged.	Empty and reattach dust bag. Clear any blockages in the dust port.

For issues not listed here or if solutions do not resolve the problem, please contact Makita customer service or an authorized service center.

8. Specifications

Feature	Detail
Model Number	LS0816F
Blade Diameter	8-1/2 inches
Amperage	10.5 AMP
No Load Speed	5,000 RPM
Max Cutting Capacity (90°)	12 inches
Max Cutting Capacity (45°)	8-1/2 inches
Miter Capacity	0°-47° Left & Right
Bevel Capacity	0°-47° Left, 0°-2° Right
Weight	30.6 lbs (tool only)
Voltage	120 Volts
Wattage	1260 watts
Product Dimensions	27.75"L x 18.75"W x 20.5"H

9. Warranty and Support

9.1 Limited Warranty

The Makita LS0816F Slide Compound Miter Saw is covered by a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, alteration, or unauthorized repair.
For full warranty terms and conditions, please refer to the warranty card included with your product or visit the official Makita website.

9.2 Customer Support

For technical assistance, service, or parts, please contact Makita customer support. You can find contact information on the official Makita website or through your authorized dealer.
When contacting support, please have your model number (LS0816F) and serial number (if applicable) ready.

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