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- › [DOVAMAN](#) /
- › [DOVAMAN DMS01A 10-Inch Sliding Miter Saw Instruction Manual](#)

DOVAMAN DMS01A

DOVAMAN DMS01A 10-Inch Sliding Miter Saw Instruction Manual

Model: DMS01A

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your DOVAMAN DMS01A 10-Inch Sliding Miter Saw. Please read this manual thoroughly before initial use and retain it for future reference.

1.1 Product Overview

The DOVAMAN DMS01A is a versatile 10-inch sliding miter saw designed for multi-material cutting, including wood, PVC, and soft metals. It features a powerful 15Amp motor with dual-speed settings (5000 RPM and 3200 RPM), a laser guide for precision, and an ambidextrous design for user comfort. The saw includes a 13-inch sliding rail and extendable side tables to accommodate various material sizes.



Figure 1.1: DOVAMAN DMS01A 10-Inch Sliding Miter Saw with included accessories.

1.2 Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Keep this manual for safety instructions.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the tool.
- **Wear appropriate personal protective equipment (PPE):** Always wear safety glasses, hearing protection, and a dust mask.
- **Ensure a safe work area:** Keep the work area clean, well-lit, and free from obstructions. Do not operate in damp or wet conditions.
- **Secure the workpiece:** Always clamp or hold the workpiece firmly against the fence and table.
- **Maintain proper balance:** Do not overreach. Keep proper footing and balance at all times.
- **Disconnect power:** Always disconnect the saw from the power source before making adjustments, changing blades, or performing maintenance.
- **Use the correct blade:** Ensure the blade is sharp, clean, and suitable for the material being cut.
- **Keep guards in place:** Never operate the saw with guards removed or damaged.
- **Avoid accidental starting:** Ensure the switch is in the OFF position before plugging in the tool.

2. SETUP

Before operating the saw, ensure it is properly assembled and secured.

2.1 Unpacking and Inspection

Carefully remove all components from the packaging. Inspect for any damage that may have occurred during shipping. The package includes:

- DOVAMAN DMS01A 10-Inch Miter Saw
- 3 x TCT Blades (two 40-tooth, one 48-tooth)

- 2 Extra Carbon Brushes
- Support Clamp
- User Manual

2.2 Mounting the Saw

For stability and safety, the miter saw should be securely mounted to a workbench or a dedicated miter saw stand. Use appropriate bolts and washers to fasten the saw through the mounting holes in its base.

2.3 Blade Installation

1. **Disconnect Power:** Ensure the saw is unplugged.
2. **Open Blade Guard:** Lift the lower blade guard and secure it in the open position if applicable, or follow specific instructions for your model to access the blade arbor.
3. **Loosen Arbor Nut:** Use the provided wrench to loosen the arbor nut while holding the arbor lock button. The nut is typically reverse-threaded.
4. **Remove Old Blade (if applicable):** Carefully remove the old blade and any washers.
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. **Secure Arbor Nut:** Reinstall any washers and tighten the arbor nut firmly while holding the arbor lock button.
7. **Close Blade Guard:** Release the blade guard.



Figure 2.1: The DOVAMAN DMS01A miter saw and its included blades.

3. OPERATING INSTRUCTIONS

Understand the various functions and controls of your miter saw for optimal performance.

3.1 Power and Speed Settings

The saw features a dual-speed setting to match the cutting requirements of different materials:

- **5000 RPM (Position II):** Ideal for quick cuts in wood and softer materials.
- **3200 RPM (Position I):** Recommended for clean cuts in PVC and soft metals, reducing heat buildup and improving cut quality.



Figure 3.1: Dual-speed settings for various cutting applications.

QUICK CUTS WITH 5000 RPM

POSITION II



Figure 3.2: Saw operating at 5000 RPM for quick cuts.

CLEAN CUTS WITH 3200 RPM

POSITION I



Figure 3.3: Saw operating at 3200 RPM for clean cuts on materials like soft metal.

3.2 Laser Guide for Precision

Activate the built-in laser guide to project a precise cutting line onto your workpiece, ensuring accurate cuts. Always verify the laser's alignment before making critical cuts.

BUILT-IN LASER FOR PRECISE CUTS



Figure 3.4: The built-in laser guide assists in achieving precise cuts.

3.3 Miter and Bevel Cuts

The saw allows for both miter (horizontal) and bevel (vertical) angle adjustments. It features 9 positive stops for common miter angles, simplifying repetitive cuts. The single bevel cut range is 0-45 degrees.

- **Miter Angle Adjustment:** Loosen the miter lock handle, adjust the turntable to the desired angle, and tighten the handle. Use the positive stops for quick setting.
- **Bevel Angle Adjustment:** Loosen the bevel lock, tilt the saw head to the desired angle (up to 45 degrees), and tighten the lock.



Figure 3.5: Optimum cross-cut capacities at 90 and 45 degrees.

9 POSITIVE STOPS FOR PRECISE MITER CUTS



Figure 3.6: The 9 positive stops facilitate precise miter angle settings.



COMPOUND MITER CUTS

Figure 3.7: Demonstrating a compound miter cut.

3.4 Sliding Function

The 13-inch sliding rail allows for a wider cutting capacity, up to 4 x 13 inches. To utilize the sliding function, unlock the slide lock (if present) and pull the saw head towards you before pushing it through the workpiece.

SLIDE RAIL SYSTEM

90 X 340 mm CUTTING CAPACITY



Figure 3.8: The slide rail system provides a cutting capacity of 90 x 340 mm.

3.5 Ambidextrous Operation

The saw is designed for comfortable use by both left and right-handed operators, featuring dual lock switches on the handle.

VERSATILE FOR BOTH HANDS

AMBIDEXTROUS MITER SAW



Figure 3.9: Ergonomic handle for ambidextrous use.

4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your miter saw.

- **Cleaning:** After each use, disconnect the power and clean the saw, especially the dust collection port and blade guard, to prevent buildup. Use a soft brush or compressed air.
- **Blade Inspection:** Regularly inspect the blade for sharpness, cracks, or missing teeth. Replace damaged or dull blades promptly.
- **Carbon Brush Replacement:** The saw includes 2 extra carbon brushes. Refer to the specific instructions in your full manual for replacement procedures when brushes wear down.
- **Lubrication:** Apply a light coat of machine oil to moving parts, such as the sliding rails, periodically to ensure smooth operation.
- **Fastener Check:** Periodically check all nuts, bolts, and screws for tightness and tighten as necessary.

5. 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; Worn carbon brushes	Check power connection; Test switch; Replace carbon brushes.
Poor cut quality (rough, splintering)	Dull or incorrect blade; Incorrect speed setting; Workpiece not secured	Replace or sharpen blade; Select appropriate speed; Secure workpiece firmly.
Laser guide not visible or inaccurate	Dust on laser lens; Misalignment; Battery (if applicable)	Clean laser lens; Check and adjust laser alignment; Replace laser battery.
Saw binds or stalls during cut	Dull blade; Overfeeding; Incorrect blade for material	Replace or sharpen blade; Reduce feed rate; Use correct blade type.

6. SPECIFICATIONS

Key technical specifications for the DOVAMAN DMS01A 10-Inch Sliding Miter Saw.

Feature	Detail
Model Number	DMS01A
Blade Diameter	10 Inches (254mm)
Motor Power	15 Amp (2000 Watts)
No-Load Speed	5000 RPM / 3200 RPM (Dual Speed)
Voltage	120 Volts
Max Cross Cut Capacity (90°)	3.5 x 13.4 inches (90 x 340 mm)
Max Bevel Cut Capacity (45°)	3.5 x 9.4 inches (90 x 240 mm)
Bevel Angle	0-45° Single Bevel
Miter Angle	Up to 45° Left/Right with 9 Positive Stops
Included Blades	Two 40-tooth TCT, One 48-tooth TCT
Item Weight	37.4 pounds (17 Kilograms)
Product Dimensions	33"L x 19"W x 15"H
UPC	702571863588

7. WARRANTY AND SUPPORT

Your DOVAMAN DMS01A 10-Inch Sliding Miter Saw is backed by a 2-year limited warranty. For warranty claims, technical assistance, or customer service inquiries, please contact DOVAMAN customer support through your purchase platform or the official DOVAMAN website.

Please have your model number (DMS01A) and proof of purchase available when contacting support.

Documents - DOVAMAN – DMS01A

no relevant documents