

DOVAMAN MCS01A O & B

DOVAMAN Mini Circular Saw User Manual

Model: MCS01A O & B

1. INTRODUCTION

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

The DOVAMAN Mini Circular Saw is a versatile power tool designed for precise cutting of various materials, including wood, PVC, metal, and tile. Its compact design, powerful motor, and integrated features like a laser guide and bevel cutting capability make it suitable for a wide range of DIY and professional tasks.

2. SAFETY INFORMATION

WARNING: Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and gloves when operating the circular saw. Disconnect the power supply before making any adjustments or changing blades.

- **Read All Instructions:** Familiarize yourself with the tool's functions and safety warnings before operation.
- **Work Area Safety:** Keep your 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. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.
- **Personal Safety:** Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Do not use the power tool if the switch does not turn it on and off. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.
- **Kickback Prevention:** Always maintain a firm grip on the saw with both hands. Ensure the workpiece is securely clamped. Avoid cutting small pieces that cannot be properly secured.

3. PRODUCT COMPONENTS

Understand the different parts of your DOVAMAN Mini Circular Saw for safe and efficient operation.



Figure 3.1: Labeled diagram of the DOVAMAN Mini Circular Saw, showing key components such as the 5.8A Copper Motor, ON/OFF Switch, Safety Lock Button, Auxiliary Metal Handle, Vacuum Adapter, Laser, Bevel Adjustment Lever, Edge Guide, Blade Guard Lever, Blade Guard, Depth Adjustment Lever, Shaft Locking Button, and Base.

- A. 5.8A Copper Motor:** Provides powerful performance for various cutting tasks.
- B. ON/OFF Switch:** Activates and deactivates the saw.
- C. Safety Lock Button:** Prevents accidental starting of the saw. Must be pressed before engaging the ON/OFF switch.
- D. Auxiliary Metal Handle:** Provides an additional grip point for enhanced stability and control during operation. Can be installed on either the left or right side.
- E. Vacuum Adapter:** Connects to a vacuum cleaner for dust extraction, keeping the work area clean.
- F. Laser Guide:** Projects a laser line onto the workpiece for precise cutting alignment.
- G. Bevel Adjustment Lever:** Allows adjustment of the cutting angle from 0° to 45°.
- H. Edge Guide:** Assists in making straight cuts parallel to an edge.
- I. Blade Guard Lever:** Retracts the lower blade guard for blade changes or initial plunge cuts.
- J. Blade Guard:** Protects the user from the rotating blade.
- K. Depth Adjustment Lever:** Controls the cutting depth of the blade.

L. Shaft Locking Button: Locks the blade shaft for safe blade removal and installation.

M. Base Plate: Provides a stable surface for the saw to rest on the workpiece during cutting. Features a larger 3.5x9.5 inch base for enhanced stability.

N. Allen Wrench: Tool for blade changes and adjustments.



Figure 3.2: The DOVAMAN Mini Circular Saw, showcasing its compact design and the variety of blades included for different cutting applications.

4. SETUP

4.1. Blade Installation/Removal

1. Ensure the saw is unplugged from the power source.
2. Press and hold the Shaft Locking Button to secure the blade shaft.
3. Use the provided Allen Wrench to loosen the blade bolt by turning it counter-clockwise.
4. Remove the outer flange and the old blade.
5. Place the new blade onto the shaft, ensuring the teeth are pointing in the direction of rotation (indicated by an arrow on the blade guard).
6. Replace the outer flange and tighten the blade bolt clockwise with the Allen Wrench while holding the Shaft

Locking Button.

7. Release the Shaft Locking Button.

4.2. Auxiliary Handle Installation

The auxiliary metal handle can be installed on either the left or right side of the saw for improved grip and stability.



Figure 4.1: Demonstrating the installation of the auxiliary metal handle, which enhances stability and control during cutting operations.

1. Locate the threaded inserts on both sides of the saw's body.
2. Screw the auxiliary handle into the desired side until it is securely fastened.

4.3. Connecting Dust Extraction

Attach a vacuum cleaner hose to the vacuum adapter for efficient dust collection during operation.

5. OPERATING INSTRUCTIONS

5.1. Adjusting Cutting Depth (90° Cross Cutting)

The cutting depth can be adjusted up to 1-11/16 inches for 90° cross-cutting.



Auxiliary Metal Handle For More Stable & Easier Cutting

Figure 5.1: Illustration of the saw's cutting capacity at both 90° (max 1-11/16") and 45° (max 1-1/8") bevel angles, highlighting the depth adjustment mechanism.

1. Loosen the Depth Adjustment Lever.
2. Move the base plate up or down to achieve the desired cutting depth.
3. Tighten the Depth Adjustment Lever securely.

5.2. Adjusting Bevel Angle (45° Bevel Cutting)

The bevel angle can be adjusted from 0° to 45°, allowing for a maximum cutting depth of 1-3/8 inches at 45°.

1. Loosen the Bevel Adjustment Lever.
2. Tilt the base plate to the desired angle (0° to 45°).
3. Tighten the Bevel Adjustment Lever securely.

5.3. Using the Laser Guide and Edge Guide for Precise Cutting

The built-in laser guide and edge guide assist in making straight and accurate cuts.



Figure 5.2: The mini circular saw in action, demonstrating how the integrated laser guide and scale ruler contribute to more precise cutting results.

1. Align the laser line with your desired cut line on the workpiece.
2. For parallel cuts, attach the edge guide and adjust it to the desired distance from the blade.
3. Ensure the workpiece is securely clamped before starting the cut.

5.4. General Operation

**Larger Base for
More Stable Cutting**



Figure 5.3: The DOVAMAN Mini Circular Saw demonstrating its versatility by cutting through different materials including PVC, metal, tile, and wood.

1. Plug the saw into a 110-volt power outlet.
2. Hold the saw firmly with both hands, utilizing the auxiliary handle for added stability.
3. Press the Safety Lock Button, then press the ON/OFF Switch to start the saw.
4. Allow the blade to reach full speed before beginning the cut.
5. Slowly and steadily guide the saw through the workpiece, maintaining constant pressure. Do not force the saw.
6. Once the cut is complete, release the ON/OFF Switch and allow the blade to stop completely before lifting the saw from the workpiece.



Figure 5.4: A detailed view of the saw's larger base (3.5 x 9.5 inches), designed to provide enhanced stability during cutting operations.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your circular saw.

- **Cleaning:** After each use, unplug the saw and use a brush or compressed air to remove dust and debris from the motor vents, blade guard, and base plate. Do not use solvents or abrasive cleaners.
- **Blade Inspection:** Regularly inspect the blade for sharpness, cracks, or missing teeth. Replace dull or damaged blades immediately.
- **Cord Inspection:** Check the power cord for any cuts, fraying, or damage. Do not use the saw if the cord is damaged.
- **Lubrication:** This tool typically does not require user lubrication. Refer to a qualified service technician for internal lubrication if needed.
- **Storage:** Store the saw in a dry, secure location out of reach of children.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Saw does not start.	Not plugged in; Safety lock button not pressed; Power outlet issue; Damaged cord.	Ensure saw is securely plugged in. Press safety lock button before ON/OFF switch. Check power outlet with another device. Inspect cord for damage; if damaged, seek professional repair.
Blade not cutting efficiently or burning wood.	Dull or incorrect blade; Incorrect cutting depth; Forcing the saw.	Replace with a sharp, appropriate blade for the material. Adjust cutting depth correctly. Allow the saw to do the work; do not apply excessive force.
Excessive vibration.	Loose blade; Damaged blade; Loose components.	Ensure blade bolt is tightened. Replace damaged blade. Check all external fasteners for tightness.
Laser guide not visible.	Dust covering laser; Laser malfunction.	Clean the laser aperture. If still not visible, contact customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	DOVAMAN
Model	MCS01A O & B
Motor	5.8A Copper Motor
No-Load Speed	3,700 rpm
Voltage	110 Volts
Blade Material	Carbon Steel
Blade Length	8 Inches (Note: This seems to be a typo in the input, as mini circular saws typically use smaller blades, e.g., 4-1/2 inches. Assuming the input is literal.)
Number of Teeth	24 (for some blades)
Max. Cutting Depth (90°)	1-11/16 inches
Max. Cutting Depth (45° Bevel)	1-3/8 inches
Base Dimensions	3.5 x 9.5 inches
Product Dimensions	7.6"L x 17"W x 5.7"H
Power Source	Corded Electric
Special Features	Bevel Capability, Laser Guide, Edge Guide, Auxiliary Handle

Feature	Detail
Surface Recommendation	Wood (also suitable for PVC, Metal, Tile with appropriate blades)

9. WARRANTY AND SUPPORT

The DOVAMAN Mini Circular Saw comes with a Limited Warranty. For specific terms and conditions, please refer to the warranty card included with your product or visit the official DOVAMAN website.

For technical support, replacement parts, or warranty claims, please contact DOVAMAN customer service. Ensure you have your product model number (MCS01A O & B) and purchase information ready when contacting support.

DOVAMAN Customer Service: Please refer to the contact information provided in your product packaging or on the official DOVAMAN brand store page on Amazon.

© 2023 DOVAMAN. All rights reserved.
This manual is subject to change without notice.