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Craftsman 315.243130

Craftsman 315.243130 Miter Saw Instruction Manual

Your comprehensive guide to safe and effective operation.

1. INTRODUCTION

This manual provides essential instructions for the safe assembly, operation, maintenance, and troubleshooting of your Craftsman Model 315.243130 Miter Saw. Please read this manual thoroughly before using the tool to ensure proper function and to prevent personal injury or damage to the saw. Keep this manual for future reference.

2. GENERAL SAFETY INSTRUCTIONS

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury. Familiarize yourself with all warnings and operating instructions.

- **Wear Eye Protection:** Always wear safety goggles or safety glasses with side shields that comply with current standards.
- **Wear Hearing Protection:** Use earplugs or earmuffs during operation.
- **Dress Properly:** Do not wear loose clothing, gloves, neckties, or jewelry that can get caught in moving parts. Secure long hair.
- **Maintain Work Area:** Keep the work area clean, well-lit, and free of clutter.
- **Keep Children Away:** Do not allow children or untrained personnel near the saw during operation.
- **Use Correct Blade:** Only use blades designed for your miter saw and appropriate for the material being cut.
- **Secure Workpiece:** Always clamp the workpiece firmly to the fence or table before cutting.
- **Avoid Forcing Tool:** Allow the saw to cut at its own pace. Forcing it can lead to kickback or damage.
- **Disconnect Power:** Always disconnect the saw from the power source before making adjustments, changing blades, or performing maintenance.

3. PRODUCT OVERVIEW

This section identifies the main components of your Craftsman 315.243130 Miter Saw.

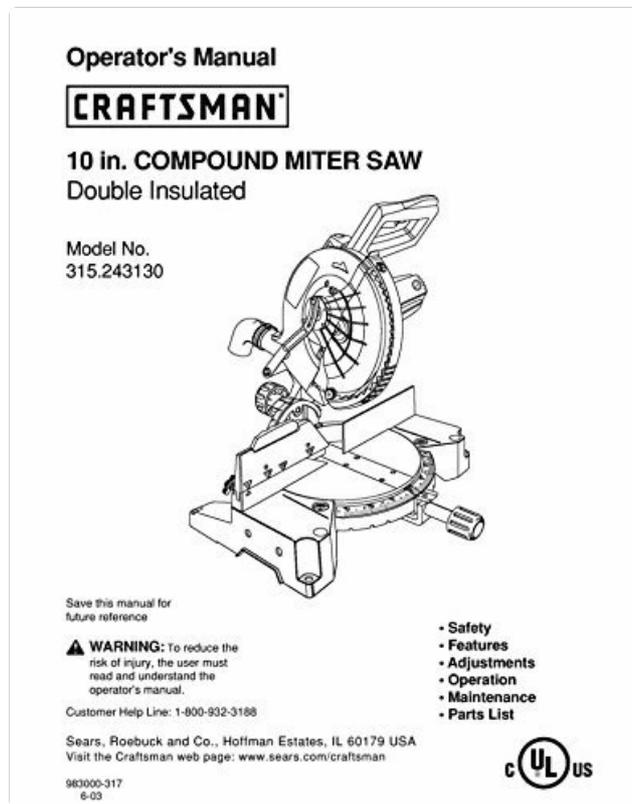


Figure 1: Overview of the Craftsman 315.243130 Miter Saw. Key components include the blade guard, fence, miter scale, bevel lock, and dust port.

- **Motor Housing:** Contains the motor and drive mechanism.
- **Blade Guard:** Retracts during cutting and covers the blade when not in use.
- **Miter Table:** The rotating base on which the workpiece rests.
- **Fence:** Provides support for the workpiece and ensures accurate cuts.
- **Miter Lock Handle:** Secures the miter table at the desired angle.
- **Bevel Lock Knob:** Secures the saw head at the desired bevel angle.
- **Dust Port:** Connects to a dust collection system for a cleaner work environment.
- **Power Switch:** Activates and deactivates the saw.

4. SETUP AND ASSEMBLY

Follow these steps to safely set up your miter saw before initial use.

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Mounting:** Securely mount the miter saw to a stable workbench or a compatible miter saw stand using appropriate bolts and washers. Ensure it is level and cannot tip.
3. **Blade Installation (if not pre-installed):**
 - Disconnect power.
 - Lift the lower blade guard.
 - Press the spindle lock button.
 - Use the provided wrench to loosen the blade bolt (typically left-hand thread).
 - Remove the outer flange and old blade.
 - Install the new blade with the teeth pointing in the direction of rotation (usually indicated by an arrow on the blade and saw).
 - Replace the outer flange and tighten the blade bolt securely.

- Release the spindle lock.
- 4. **Adjusting the Fence:** Ensure the fence is square to the blade at 90 degrees. Adjust if necessary using a square and the provided adjustment screws.
- 5. **Checking Miter and Bevel Stops:** Verify that the 0-degree miter and bevel stops are accurate. Calibrate if needed according to the specific instructions in your saw's original manual.
- 6. **Dust Collection:** Attach a dust bag or connect a vacuum system to the dust port for efficient chip removal.

5. OPERATING INSTRUCTIONS

Understand the basic operations for making various cuts with your miter saw.

5.1. Making a Crosscut (90-degree)

1. Ensure the miter table is locked at 0 degrees and the bevel is at 0 degrees.
2. Place the workpiece firmly against the fence and flat on the miter table.
3. Clamp the workpiece securely to prevent movement during the cut.
4. Hold the handle firmly, depress the trigger, and allow the blade to reach full speed.
5. Slowly lower the blade through the workpiece.
6. Once the cut is complete, release the trigger and allow the blade to stop completely before raising the saw head.
7. Remove the workpiece.

5.2. Making a Miter Cut

1. Loosen the miter lock handle.
2. Rotate the miter table to the desired angle (e.g., 45 degrees).
3. Tighten the miter lock handle securely.
4. Follow steps 2-7 from "Making a Crosscut."

5.3. Making a Bevel Cut

1. Loosen the bevel lock knob.
2. Tilt the saw head to the desired bevel angle (e.g., 45 degrees).
3. Tighten the bevel lock knob securely.
4. Follow steps 2-7 from "Making a Crosscut."

6. MAINTENANCE

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

- **Cleaning:** After each use, clear sawdust and debris from the saw, especially around the blade guard, motor vents, and miter table. Use compressed air or a brush.
- **Blade Inspection:** Regularly inspect the blade for dullness, missing teeth, or cracks. Replace damaged blades immediately.
- **Lubrication:** Apply a light coat of machine oil to moving parts, such as the miter detent plate and pivot points, as recommended in the original manual.
- **Carbon Brushes:** Check carbon brushes periodically (refer to the original manual for frequency). Replace them when they are worn down to the wear limit mark.
- **Power Cord:** Inspect the power cord for damage. Do not use the saw if the cord is frayed or cut.
- **Fasteners:** Periodically check all nuts, bolts, and screws for tightness. Tighten as needed.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Saw does not start	No power, faulty switch, worn carbon brushes.	Check power connection, test outlet, inspect power cord. If problem persists, consult a qualified technician.
Blade binds or smokes	Dull blade, incorrect blade for material, workpiece not clamped, forcing the cut.	Replace blade, use appropriate blade, secure workpiece firmly, reduce feed rate.
Inaccurate cuts	Fence or miter/bevel stops out of adjustment, loose blade.	Calibrate fence and stops, ensure blade is securely tightened.
Excessive vibration	Loose blade, damaged blade, saw not securely mounted.	Check blade tightness, replace damaged blade, ensure saw is firmly mounted.

If you encounter issues not listed here or if solutions do not resolve the problem, contact Craftsman customer support or a certified service center.

8. SPECIFICATIONS

These are general specifications for the Craftsman 315.243130 Miter Saw. Refer to the original product documentation for precise details.

- **Model Number:** 315.243130
- **Blade Diameter:** Typically 10 inches or 12 inches (*verify with original manual*)
- **Motor:** Universal motor, 120V AC, 60 Hz (*specific amperage/HP varies*)
- **No-Load Speed:** Approximately 4,800 RPM (*verify with original manual*)
- **Miter Capacity:** 0 to 45 degrees left and right
- **Bevel Capacity:** 0 to 45 degrees left (*some models may bevel right*)
- **Weight:** Varies by model configuration (*refer to original manual*)

9. WARRANTY AND CUSTOMER SUPPORT

For information regarding your product's warranty, please refer to the original purchase documentation or the official Craftsman website. This manual is a reprint and does not include specific warranty details.

For technical assistance, replacement parts, or service inquiries, please contact Craftsman customer support directly through their official channels.

Official Website: www.craftsman.com

Customer Service: Refer to the website for current contact information.

