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› [Craftsman](#) /

› [Craftsman Band Saw Models 113.248320 and 113.248440 Instruction Manual](#)

Craftsman 113.248320, 113.248440

Craftsman Band Saw Instruction Manual

MODELS: 113.248320, 113.248440

Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Craftsman Band Saw Models 113.248320 and 113.248440. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

Retain this manual for future reference. If you have any questions or require assistance, refer to the 'Support and Service' section.

General Safety Instructions

Always follow basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the machine.
- **Wear appropriate safety gear:** Always wear safety glasses or a face shield. Hearing protection is recommended.
- **Keep work area clean and well-lit:** Cluttered or dark areas invite accidents.
- **Do not operate in explosive atmospheres:** Do not operate power tools in the presence of flammable liquids, gases, or dust.
- **Keep children and bystanders away:** Distractions can cause you to lose control.
- **Secure workpiece:** Always clamp or otherwise secure the material being cut.
- **Avoid accidental starting:** Ensure the switch is in the off-position before plugging in.
- **Do not overreach:** Maintain proper footing and balance at all times.
- **Disconnect power:** Always disconnect the power cord before making adjustments, changing accessories, or servicing.
- **Use the right tool:** Do not force the tool or attachment to do a job for which it was not designed.

Specific Band Saw Safety

- **Blade Guard:** Ensure all blade guards are in place and functioning correctly before operation.
- **Blade Selection:** Use the correct blade type and width for the material and cut being made.

- **Blade Tension:** Properly tension the blade according to the instructions to prevent breakage and ensure accurate cuts.
- **Feed Rate:** Feed material into the blade at a consistent and appropriate rate. Do not force the workpiece.
- **Hands Position:** Keep hands clear of the blade path. Use push sticks or blocks when cutting small pieces.
- **Clear Debris:** Never clear sawdust or debris from the table while the saw is running.
- **Check for Obstructions:** Before starting, ensure there are no loose objects on the table or in the blade's path.

Setup

Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Inspect all parts for shipping damage. If any damage is found, do not assemble or operate the saw. Contact customer service immediately.
3. Verify that all parts listed in the packing list are present.

Assembly

Follow these steps for basic assembly:

1. Attach the stand (if applicable) to the main body of the band saw using the provided hardware. Ensure all bolts are securely tightened.
2. Mount the work table to the saw frame. Adjust the table to be perpendicular to the blade using a square, then tighten the locking mechanism.
3. Install the rip fence and miter gauge according to their respective instructions.

Blade Installation

Installing the blade correctly is crucial for safe and accurate operation.

1. **Disconnect Power:** Ensure the saw is unplugged from the power source.
2. **Open Covers:** Open the upper and lower wheel covers.
3. **Release Tension:** Loosen the blade tension knob to fully release tension on the old blade (if present).
4. **Remove Old Blade:** Carefully remove the old blade from the wheels and guides.
5. **Install New Blade:** Place the new blade over the upper and lower wheels, ensuring the teeth are pointing downwards towards the table.
6. **Position Blade:** Guide the blade into the blade guides and thrust bearings.
7. **Apply Tension:** Gradually tighten the blade tension knob until the blade is properly tensioned. Refer to the tension indicator or use the 'flex test' method (a slight deflection of the blade with finger pressure).
8. **Adjust Tracking:** Manually rotate the upper wheel to check blade tracking. Adjust the tracking knob until the blade runs centrally on the rubber tires of both wheels.
9. **Close Covers:** Close and secure the upper and lower wheel covers.

Adjustments

- **Blade Guides:** Adjust the blade guides so they are just clear of the blade sides, typically 0.002-0.004 inches (0.05-0.1 mm).
- **Thrust Bearings:** Set the thrust bearings to be just behind the blade, not touching it during idle, but supporting it during cutting.
- **Upper Guide Post:** Adjust the upper blade guide post so it is approximately 1/4 inch (6mm) above the workpiece.

- **Table Tilt:** The table can be tilted for bevel cuts. Loosen the table lock, adjust to the desired angle, and re-lock securely.

Operating Instructions

Before Operation

- Ensure all safety guards are in place and properly adjusted.
- Verify the blade is correctly installed, tensioned, and tracking.
- Adjust the upper blade guide post to the appropriate height for your workpiece.
- Clear the work area of any obstructions or loose items.
- Wear all recommended personal protective equipment (PPE).

Basic Cutting Techniques

1. **Starting the Saw:** Plug in the saw and turn the power switch to the 'ON' position. Allow the saw to reach full speed before beginning a cut.
2. **Straight Cuts:** Use the rip fence for straight cuts. Position the fence to the desired width and hold the workpiece firmly against it while feeding into the blade.
3. **Curve Cuts:** For curved cuts, do not use the rip fence. Guide the workpiece freehand, applying gentle, consistent pressure. Use a narrower blade for tighter curves.
4. **Feeding Material:** Feed the material slowly and steadily into the blade. Do not force the cut. Let the blade do the work.
5. **Exiting the Cut:** Continue to support the workpiece until the cut is complete and the piece is clear of the blade. Turn off the saw and wait for the blade to stop completely before removing cut pieces or clearing debris.

Advanced Operations

- **Resawing:** For resawing thick stock, use a wide blade (e.g., 1/2 inch or 3/4 inch) and a tall resaw fence. Ensure the blade is properly tensioned for the task.
- **Miter Cuts:** Use the miter gauge for accurate angle cuts. Adjust the miter gauge to the desired angle and secure the workpiece against it.
- **Circle Cutting:** Specialized jigs can be used for cutting perfect circles. Follow the jig manufacturer's instructions for safe use.

Maintenance

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

General Maintenance

- **Cleaning:** After each use, disconnect power and clean sawdust and debris from the table, blade guides, and inside the wheel covers using a brush or vacuum.
- **Lubrication:** Periodically lubricate moving parts such as the blade tension screw, table tilt mechanism, and guide post with a dry lubricant or light machine oil as specified in the original manual.
- **Inspection:** Regularly inspect the power cord for damage, the blade for dullness or cracks, and all fasteners for tightness.
- **Wheel Tires:** Check the rubber tires on the wheels for wear or damage. Replace if necessary to ensure proper blade tracking.

Blade Care

- **Blade Changes:** Change blades when they become dull or damaged. A dull blade can cause burning, inaccurate cuts, and excessive strain on the motor.
- **Blade Cleaning:** Remove resin and pitch buildup from blades using a blade cleaner. This improves cutting performance and extends blade life.
- **Storage:** Store spare blades properly to prevent damage and corrosion.

Troubleshooting

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

Problem	Possible Cause	Solution
Blade breaks frequently	Incorrect blade tension; dull blade; improper blade tracking; forcing cut.	Adjust blade tension; replace blade; adjust blade tracking; reduce feed rate.
Blade wanders or cuts inaccurately	Dull blade; incorrect blade tension; improper blade tracking; worn blade guides/thrust bearings.	Replace blade; adjust blade tension; adjust blade tracking; inspect and replace guides/bearings.
Motor overheats	Overloading the motor; poor ventilation; dull blade.	Reduce feed rate; ensure proper ventilation around motor; replace dull blade.
Excessive vibration	Loose fasteners; unbalanced wheels; worn wheel tires.	Check and tighten all fasteners; inspect wheels for balance; replace worn wheel tires.

Specifications

The following specifications apply to Craftsman Band Saw Models 113.248320 and 113.248440:

Feature	Specification
Motor	1/2 HP, 120V, 60Hz, Single Phase
Blade Length	62 inches (1575 mm)
Blade Width Capacity	1/8 inch to 1/2 inch (3 mm to 13 mm)
Throat Capacity	9-3/4 inches (248 mm)
Maximum Cutting Height	6 inches (152 mm)
Table Size	13-1/2 x 13-1/2 inches (343 x 343 mm)
Table Tilt	0 to 45 degrees (right)

Warranty Information

Craftsman products are manufactured to high-quality standards. This product is covered by a limited warranty against defects in materials and workmanship for a specified period from the date of purchase. Specific warranty terms, conditions, and exclusions are detailed in the original product documentation. Please retain your proof of purchase for warranty claims.

This manual reprint does not extend or alter the original manufacturer's warranty.

Support and Service

For technical assistance, replacement parts, or service inquiries regarding your Craftsman Band Saw, please refer to the contact information provided with your original purchase or visit the official Craftsman website. When contacting support, please have your model number (113.248320 or 113.248440) and serial number readily available.

Note: This document is a reprint of the original instruction manual and is provided for informational purposes.