RYOBI BS904G

Ryobi BS904G 9" Band Saw User Manual

Model: BS904G

1. Introduction

This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your Ryobi BS904G 9" Band Saw. Please read and understand all instructions before operating the tool. The Ryobi 2.5-amp Band Saw is designed for a variety of woodworking applications, featuring a blade tracking window, a rack and pinion blade support adjustment system, and a built-in dust collection port.



Figure 1: Front view of the Ryobi BS904G 9" Band Saw. This image displays the main components including the motor housing, cutting table, blade guard, and control switches.

2. General Safety Information

WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep the 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.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating power tools. Dress properly; avoid loose clothing, jewelry, or long hair that can be caught in moving parts.
- **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.

- **Maintenance:** Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the power tool's operation.

3. Setup

3.1 Unpacking and Inspection

Carefully remove the band saw from its packaging. Inspect the tool for any damage that may have occurred during shipping. Ensure all components listed in the packing list are present. If any parts are missing or damaged, do not operate the tool and contact customer service.

3.2 Mounting the Band Saw

For stable operation, the band saw should be securely mounted to a workbench or a dedicated stand. Use appropriate bolts and washers to fasten the base of the saw to a sturdy surface. Ensure the mounting surface is level and capable of supporting the weight of the tool and any material being cut.

3.3 Blade Installation and Adjustment

The Ryobi BS904G features a blade tracking window and a rack and pinion blade support adjustment system for precise blade alignment. Refer to the detailed instructions in the full manual for specific steps on installing the blade, setting the correct tension, and adjusting the blade guides and thrust bearings. Proper blade tension and alignment are crucial for accurate cuts and to prevent blade breakage.



Figure 2: Rear view of the Ryobi BS904G 9" Band Saw. This view highlights the motor, power cord connection, and the dust collection port, which is essential for maintaining a clean work environment.

3.4 Dust Collection Connection

Connect a suitable dust collection system to the built-in dust collection port located at the rear of the saw (refer to Figure 2). This will help maintain a clean work environment and improve visibility during operation.

4. Operating Instructions

4.1 Powering On/Off

Ensure the power cord is securely plugged into a grounded 120-volt outlet. To turn the saw ON, press the green 'ON' button. To turn the saw OFF, press the red 'OFF' button. Always ensure the saw is off and unplugged before making any adjustments or maintenance.

4.2 Making Cuts

Position the workpiece firmly on the cutting table. Adjust the blade guard to be approximately 1/4 inch above the workpiece. Guide the material slowly and steadily into the blade. Avoid forcing the material, as this can cause the blade to bind or break. Use a push stick for smaller pieces to keep hands away from the blade.



Figure 3: A user demonstrating the operation of the Ryobi BS904G 9" Band Saw, carefully guiding a piece of wood through the blade. Proper hand placement and safety gear are visible.

4.3 Cutting Curves and Resawing

The band saw is ideal for cutting curves and resawing. For curves, use a narrower blade and guide the material smoothly. For resawing, ensure the fence is properly set and the blade is sharp and tensioned correctly. Always maintain control of the workpiece throughout the cut.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your Ryobi BS904G Band Saw.

- **Cleaning:** After each use, unplug the saw and clean off sawdust and debris from the table, blade, and internal components using a brush or vacuum. Pay special attention to the blade guides and dust port.
- **Blade Inspection and Replacement:** Regularly inspect the blade for dullness, cracks, or missing teeth. A dull blade can lead to poor cuts and increased motor strain. Replace worn or damaged blades promptly. Refer to the full manual for detailed blade replacement instructions.
- **Blade Guide and Bearing Adjustment:** Periodically check and adjust the blade guides and thrust bearings to

ensure they are properly supporting the blade without causing excessive friction.

- **General Inspection:** Check all nuts, bolts, and screws for tightness. Ensure all safety guards are in place and functioning correctly.

6. Troubleshooting

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

- **Blade Drifting or Not Cutting Straight:**
  - Check blade tension and adjust if too loose.
  - Inspect blade guides and thrust bearings for proper adjustment and wear.
  - Ensure the blade is sharp and free of damage.
- **Excessive Vibration:**
  - Verify the saw is securely mounted to a stable surface.
  - Check blade tension and ensure the blade is not twisted or damaged.
  - Inspect the wheels for debris or damage.
- **Motor Overheating or Loss of Power:**
  - Avoid forcing the workpiece through the blade; reduce feed rate.
  - Ensure the blade is sharp.
  - Check for proper ventilation around the motor.
- **Dust Collection Ineffective:**
  - Ensure the dust collection port is clear of obstructions.
  - Verify the dust collection system is adequately powered and connected.

If these steps do not resolve the issue, consult the complete product manual or contact Ryobi customer support.

7. Specifications

Feature	Specification
Brand	RYOBI
Model Number	BS904G
Color	Green
Power Source	Corded Electric
Voltage	120 Volts
Wattage	300 Watts
Item Weight	37.3 Pounds
Product Dimensions	31"L x 18"W x 11"H
Blade Length	62 Inches

Feature	Specification
Blade Material	High Speed Steel
Number of Teeth	24
Cutting Angle	45 Degrees
Special Feature	Brake
Handle Material	Plastic

8. Warranty and Support

The Ryobi BS904G 9" Band Saw comes with a**Full 3-Year Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
For technical assistance, warranty service, or to order replacement parts, please refer to the contact information provided with your product packaging or visit the official RYOBI website. Always provide your model number (BS904G) when contacting support to ensure efficient service.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

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