

DOVAMAN B120

DOVAMAN B120 Portable Bandsaw Instruction Manual

Model: B120

1. INTRODUCTION

Thank you for choosing the DOVAMAN B120 Portable Bandsaw. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before initial use and keep it for future reference.

The DOVAMAN B120 is a versatile 10A corded bandsaw designed for cutting various materials including wood, plastic, and metal pipes. It features a 5-inch cutting capacity, 6-speed variable control, and an adjustable cutting angle from 0° to 45°. Its convertible base allows for both handheld and stable table saw operation.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating power tools. Failure to follow these instructions may result in serious injury or property damage.

- **Personal Protective Equipment (PPE):** Always wear safety glasses, hearing protection, and appropriate work gloves. Avoid loose clothing or jewelry that could get caught in moving parts.
- **Work Area:** Ensure your work area is clean, well-lit, and free from clutter. Keep children and bystanders away from the operating area.
- **Secure Workpiece:** Always clamp the workpiece firmly in the vise or secure it properly before cutting to prevent movement and kickback.
- **Blade Guard:** Ensure the blade guard is properly in place and functioning before operating the saw.
- **Power Source:** Connect the tool to a grounded power outlet. Do not modify the plug.
- **Avoid Overreaching:** Maintain proper footing and balance at all times.
- **Unplug When Not in Use:** Disconnect the saw from the power source before making adjustments, changing accessories, or storing the tool.
- **Inspect Tool:** Before each use, inspect the saw for any damage, loose parts, or worn blades. Do not operate a damaged tool.

- **Material Compatibility:** Use the correct blade type for the material being cut.

3. PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- 1 x DOVAMAN Portable Band Saw
- 1 x Band Saw Base
- 2 x Saw Blades
- 1 x S4 Hex Wrench
- 1 x S5 Socket Component
- 1 x User Manual (this document)

4. SETUP

4.1 Attaching the Base

The bandsaw can be used handheld or mounted to the included base for stationary operation. To attach the base:

1. Align the bandsaw unit with the mounting points on the base.
2. Secure the bandsaw to the base using the provided screws and tools. Ensure all connections are tight.
3. The base includes a spring-loaded catch to hold the saw in an open position when not in use or for specific operations.



Image: The DOVAMAN B120 Portable Bandsaw shown with its base attached, ready for use. Two spare saw blades are visible next to the unit.

4.2 Blade Installation and Tensioning

Proper blade installation and tension are crucial for safe and effective cutting.

1. **Remove Guard & Loosen Tension:** Use the S4 hex wrench to remove the blade guard and loosen the blade tension mechanism.
2. **Install Saw Band:** Carefully place the new saw blade onto the wheels, ensuring the teeth are pointing in the correct cutting direction (refer to directional arrows on the saw).
3. **Tighten Band & Reinstall Guard:** Apply appropriate tension to the blade using the tensioning knob, then reattach the blade guard securely.
4. **Test Start & Check:** Briefly run the saw to ensure the blade tracks correctly and there are no unusual noises.



Image: A four-step visual guide demonstrating the process of changing the saw blade, including removing the guard, installing the new blade, tensioning, and reattaching the guard.

4.3 Adjusting Cutting Angle

The saw's base allows for angle adjustments from 0° to 45° for miter cuts.

1. Loosen the locking mechanism for the angle adjustment on the base.
2. Pivot the saw to the desired angle, using the angle markings on the base as a guide.
3. Tighten the locking mechanism securely to fix the angle.



Image: Comparison of the bandsaw set for a 0-degree straight cut and a 45-degree miter cut, illustrating the adjustable angle feature of the base.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off and Speed Adjustment

- The saw features an On/Off switch and a release switch on the handle.
- Use the 6-speed adjustment dial to select the appropriate blade speed (0.4 to 2.6 m/s) for your material. Lower speeds are generally for harder materials, higher speeds for softer materials.

PORTABLE & LIGHTWEIGHT



Image: A labeled diagram highlighting key components of the bandsaw, including the power controls and speed adjustment dial.



Image: A user adjusting the 6-speed dial on the bandsaw while cutting a PVC pipe, demonstrating the variable speed control.

5.2 Material Clamping and Cutting

Always ensure the material is securely clamped before initiating a cut.

1. Place the material to be cut into the vise.
2. Adjust the moving clamping jaw to firmly hold the material against the fixed clamping jaw.
3. Lower the saw slowly and steadily through the material. Avoid forcing the blade, as this can lead to premature blade wear or damage.



Image: The bandsaw set up for stationary cutting, with a metal workpiece secured in the vise, illustrating the cutting adjustment capabilities.

5.3 LED Work Light

The integrated LED work light illuminates the cutting area for improved visibility. Activate it using the dedicated LED switch on the handle.



Image: The bandsaw in handheld operation, with its LED work light active, providing illumination for precise cutting of a metal workpiece.

5.4 Applicable Materials

The DOVAMAN B120 is suitable for cutting a wide range of materials:

- Solid Steel
- Metal (various forms like pipes, bars)
- PVC Plastic
- Wood

WIDE APPLICATION



Solid Steel



Metal



PVC Plastic



Wood

Image: A visual representation of various materials the bandsaw can cut, including solid steel, metal pipes, PVC plastic, and wood.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your bandsaw.

- **Cleaning:** After each use, unplug the saw and use a brush or compressed air to remove sawdust and metal shavings from the blade, wheels, and motor vents.
- **Blade Inspection:** Regularly inspect the blade for dullness, damage, or missing teeth. Replace worn blades promptly.
- **Blade Tension:** Check blade tension periodically and adjust as needed to prevent blade slippage or breakage.
- **Lubrication:** Refer to the detailed product diagram for any specific lubrication points, if applicable.
- **Storage:** Store the bandsaw in a dry, secure location out of reach of children.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your bandsaw.

- **Saw does not start:**

- Check if the power cord is securely plugged into a working outlet.
 - Ensure the On/Off switch is engaged and the safety release switch is pressed.
 - Verify there is no power outage or tripped circuit breaker.
- **Blade not cutting efficiently or binding:**
 - The blade may be dull or damaged; replace it if necessary.
 - Blade tension might be incorrect; adjust according to Section 4.2.
 - Ensure the correct blade type is used for the material.
 - Reduce feed pressure; do not force the cut.
- **Excessive vibration or noise:**
 - Check blade tension and ensure it is properly installed.
 - Inspect the blade for damage or bends.
 - Ensure all mounting screws for the base are tight.
- **Inaccurate cuts:**
 - Verify the material is securely clamped.
 - Check the angle adjustment settings.
 - Ensure the blade is not dull or damaged.

If you encounter issues not covered here, please contact customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	DOVAMAN
Model Number	B120
Power Source	Corded Electric
Motor Amperage	10A
Wattage	1200 watts
Cutting Capacity	5 Inch
Blade Material	M24
Variable Speed Settings	6-Speed (0.4 to 2.6 m/s)
Adjustable Cutting Angle	0° - 45°
Product Dimensions	16"L x 15"W x 23"H
Item Weight	34 Pounds
Special Feature	Bevel Capability, LED Work Light
UPC	734376720186

9. WARRANTY AND SUPPORT

DOVAMAN is committed to providing quality products and customer satisfaction. For any questions, concerns, or technical assistance, please contact our customer service team.

- **Customer Service:** We offer 24/7 online customer service with quick-response support. Refer to your purchase documentation for contact details.
- **Warranty Information:** Specific warranty details are provided with your product purchase. Please retain your proof of purchase for warranty claims.