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WEN 3939T

WEN 3939T 2.8-Amp 9-Inch Benchtop Band Saw Instruction Manual

Model: 3939T | Brand: WEN

1. Introduction and Safety Information

Thank you for choosing the WEN 3939T 9-Inch Benchtop Band Saw. 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.

General Safety Warnings

- Always wear appropriate personal protective equipment, including safety glasses, hearing protection, and a dust mask.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Keep children and bystanders away from the operating area.
- Do not operate the band saw in damp or wet conditions.
- Always disconnect the power supply before performing any adjustments, maintenance, or when changing blades.
- Never force the tool. Allow the blade to cut at its own pace.
- Secure the workpiece firmly before cutting.

2. Product Overview

The WEN 3939T is a compact and powerful benchtop band saw designed for precision cutting of wood and similar materials. Its robust construction and user-friendly features make it suitable for various woodworking projects.


WEN
9″ BAND SAW
MODEL
MOTOR 3960
SPEED 120V, 60Hz, 2.8A
SERIAL NO. 2460 FPM
1-800-232-1195
WENPRODUCTS.COM

Figure 2.1: Front view of the WEN 3939T Band Saw, showing the main body, work table, and blade guard.

Key Components:

- **Motor:** 2.8-amp motor provides ample power for various cuts.
- **Work Table:** Large 12 x 12 inch (30.5 x 30.5 cm) work table, capable of beveling up to 45 degrees.
- **Blade:** Uses 62-inch blades, ranging from 1/8 to 3/8 inches in width.
- **Dust Port:** Integrated port for connecting a dust collection system to maintain a clean workspace.
- **Fence:** Adjustable fence for straight and accurate cuts.
- **Miter Gauge:** For precise angled cuts.

3. Specifications

Specification	Value
Manufacturer	WEN
Part Number	3939T
Size	9-inch (22.86 cm)
Color	Black
Style	Band Saw
Power Source	Corded Electric
Voltage	120 Volts (AC)
Wattage	336 watts
Handle Material	Plastic or Metal
Special Features	Portable
Included Components	Blade, Dust Port, Fence, Miter Gauge
Package Dimensions	80.77 x 45.01 x 41.61 cm
Item Weight	21.2 kg
Blade Material	High-Speed Steel
Surface Recommendation	Wood
Cutting Depth	Up to 3-5/8 inches
Cutting Width	Up to 9 inches
Blade Speed	250 feet per minute

4. Setup

Proper setup is crucial for the performance and safety of your band saw. Follow these steps carefully.

4.1 Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Inspect the band saw for any shipping damage. If damage is found, do not operate the tool and contact customer support.
3. Ensure all listed components (blade, dust port, fence, miter gauge) are present.

4.2 Attaching the Work Table

The work table needs to be securely attached to the main body of the band saw.

1. Position the work table onto the mounting bracket on the band saw body.
2. Secure it using the provided bolts and nuts. Ensure the table is level and stable.
3. Adjust the table to be 90 degrees to the blade using a tri-square for accuracy.

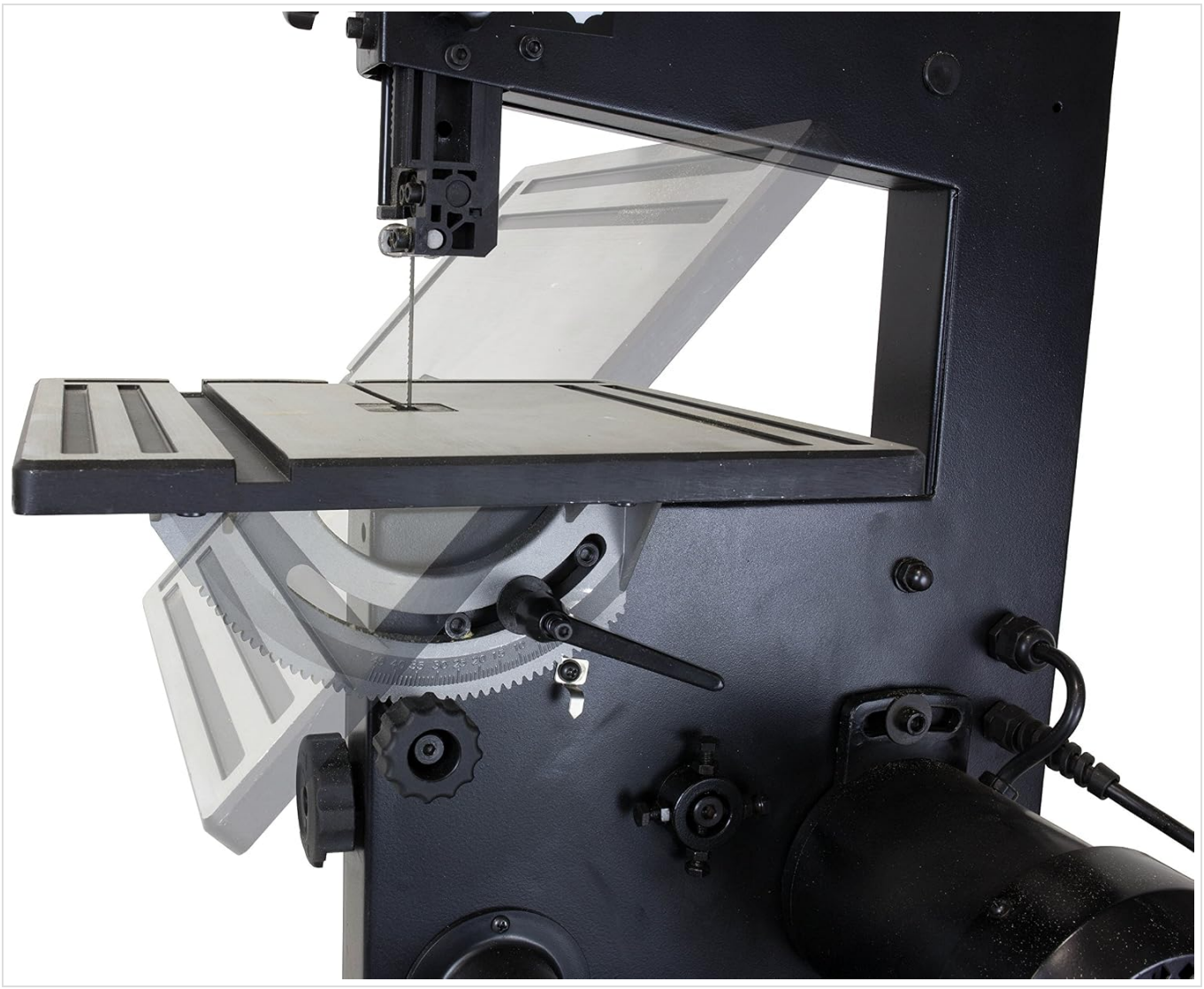

Figure 4.1: The work table can be tilted up to 45 degrees for angled cuts. Ensure it is set to 90 degrees for initial setup.

4.3 Blade Installation and Tensioning

The band saw uses 62-inch blades. A 3/8-inch blade is typically included.

1. Open the upper and lower wheel covers.
2. Carefully place the blade around the upper and lower wheels, ensuring the teeth are pointing downwards towards the table.
3. Adjust the blade tension knob until the blade is taut but not overly tight. Refer to the tension indicator if available.
4. Adjust the blade tracking so the blade runs centrally on the wheels.

5. Close the wheel covers before operation.



Figure 4.2: Internal view of the band saw, illustrating the upper and lower wheels where the blade is installed.

4.4 Power Connection

1. Ensure the power switch is in the 'OFF' position.
2. Connect the band saw to a standard 120V AC power outlet.

5. Operating Instructions

Familiarize yourself with the operating controls and procedures before making any cuts.

5.1 Powering On/Off

1. To turn on the band saw, press the 'ON' button (usually green).

2. To turn off the band saw, press the 'OFF' button (usually red).

5.2 Adjusting Blade Guides

The blade guides support the blade and prevent twisting during cuts.

1. Adjust the upper blade guide assembly so it is approximately 1/8 to 1/4 inch above the workpiece.
2. Ensure the side guides are close to the blade but not touching, allowing the blade to run freely.
3. The thrust bearing behind the blade should be just barely touching the back of the blade.

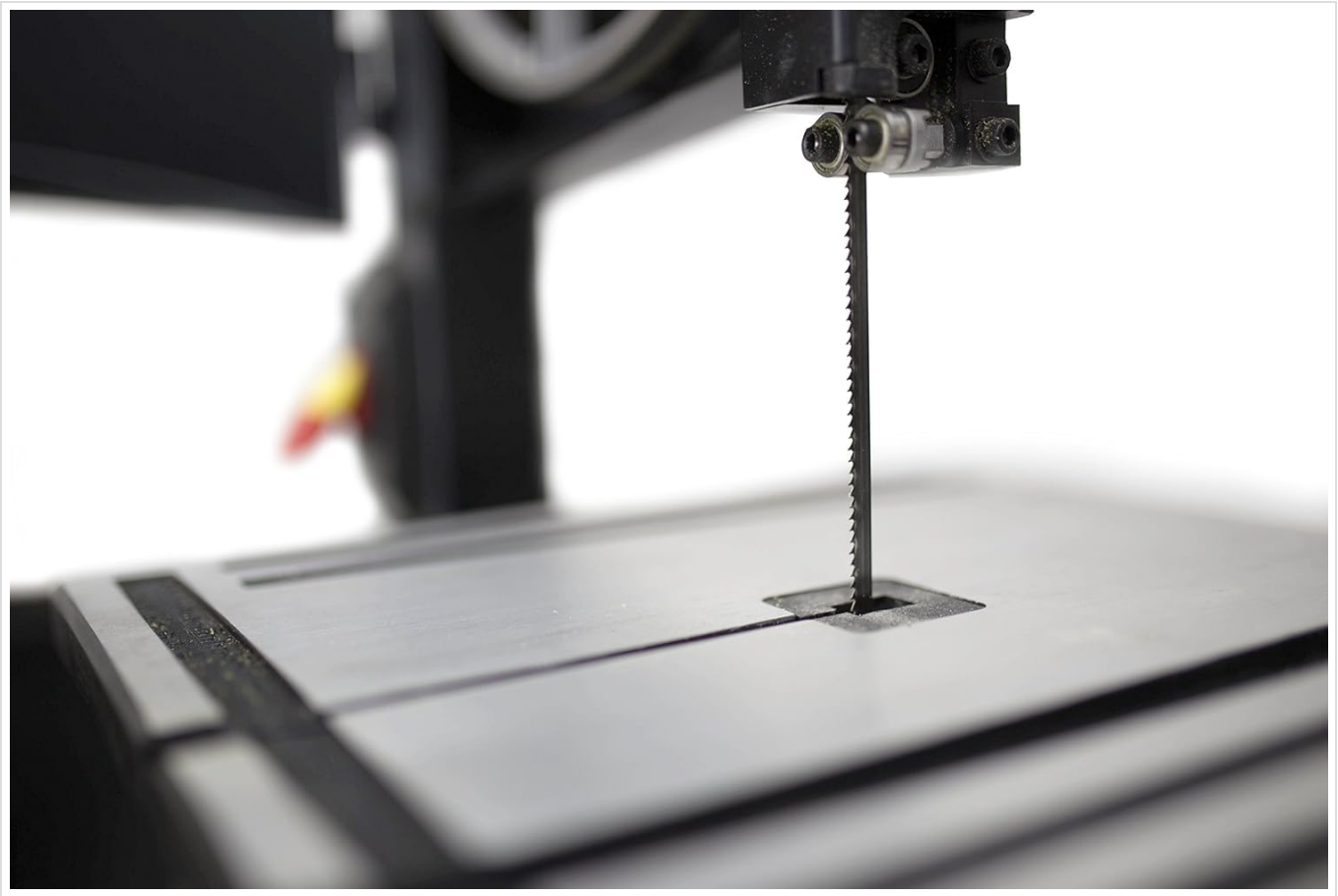

Figure 5.1: Close-up view of the blade passing through the work table, highlighting the area where blade guides are adjusted.

5.3 Using the Fence and Miter Gauge

1. **Fence:** For straight cuts, position the fence parallel to the blade and lock it in place.
2. **Miter Gauge:** Insert the miter gauge into the table slot. Adjust the angle for precise angled cuts.

5.4 Cutting Operations

1. Ensure the workpiece is free of nails, screws, or other foreign objects.
2. Hold the workpiece firmly against the table and fence/miter gauge.
3. Slowly feed the workpiece into the blade, allowing the blade to cut without forcing.
4. The band saw can cut up to 3-5/8 inches deep and 9 inches wide.

5.5 Dust Collection

Connect a dust collection system to the integrated dust port to minimize sawdust and maintain a clear view of your cut line.




WARNING
- Read and understand the instruction manual before operating the band saw.
- Wear eye protection.
- Do not expose to rain or use in damp locations.
- Do not remove jammed cutoff pieces until blade has stopped.
- Secure band saw to the floor for stability and safety.
- Maintain proper adjustment of blade tension, blade guides and thrust bearings. Hold workpiece firmly against the table.
- Adjust upper guide to just clear the workpiece.
- Always keep guards in place and in proper operating condition.

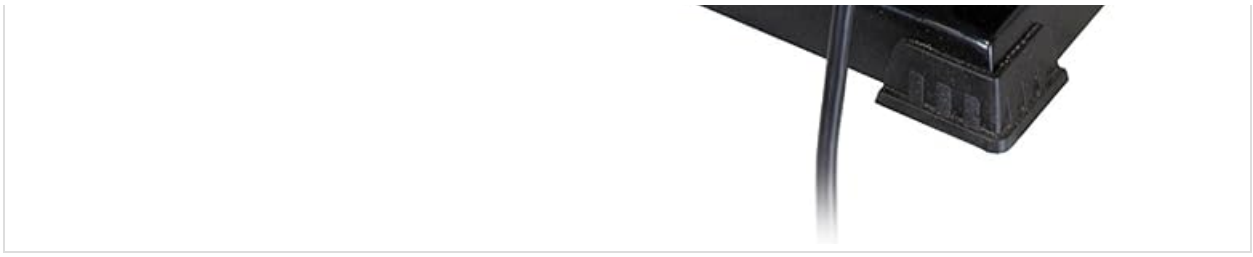

Figure 5.2: Rear view of the band saw, highlighting the motor and the dust port for connection to a dust collection system.

6. Maintenance

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

6.1 Cleaning

1. Always disconnect power before cleaning.
2. Regularly clear sawdust and debris from the work table, blade guides, and inside the wheel covers.
3. Use a brush or vacuum cleaner; avoid using compressed air as it can force debris into bearings.

6.2 Blade Replacement

Replace dull or damaged blades promptly. Refer to Section 4.3 for blade installation steps.

1. Loosen blade tension and remove the old blade.
2. Install the new 62-inch blade (1/8 to 3/8 inch width) as described in the setup section.

6.3 General Inspection

1. Periodically check all nuts, bolts, and screws for tightness.
2. Inspect the power cord for any damage.
3. Ensure all safety guards are in place and functioning correctly.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Saw does not start	No power supply Faulty switch	Check power connection and circuit breaker Contact customer support
Blade drifts or cuts inaccurately	Incorrect blade tension Dull blade Improper blade tracking Blade guides not adjusted correctly	Adjust blade tension Replace blade Adjust blade tracking Adjust blade guides (refer to Section 5.2)
Excessive vibration or noise	Loose components Damaged blade Unbalanced wheels	Tighten all fasteners Replace blade Contact customer support
Motor overheats	Overloading the motor Poor ventilation	Reduce cutting pressure Ensure proper airflow around the motor

8. Warranty and Support

The WEN 3939T 9-Inch Benchtop Band Saw comes with a 2-year limited warranty. This warranty covers defects in material and workmanship under normal use.

Warranty Claims:

For warranty service, please retain your proof of purchase. Do not attempt to repair the tool yourself, as this may void the warranty.

Customer Support:

For technical assistance, parts, or warranty inquiries, please visit the official WEN website or contact their customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.

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