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WEN 3922

WEN 3922 16-inch Variable Speed Scroll Saw Instruction Manual

Model: 3922

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1. Product Overview

The WEN 3922 16-inch Variable Speed Scroll Saw is designed for intricate and precise cuts in various materials, primarily wood. It features a 9/16-inch stroke, allowing it to cut through hardwoods up to two inches thick. The variable speed control ranges from 550 to 1600 strokes per minute, adjustable via a knob. The saw includes an adjustable air pump to clear sawdust and a 1-1/2-inch dust port for maintaining a clean work area. Its cast iron base minimizes vibration during operation.

Key Features:

- **Easy-Access Blade Changes:** A unique side panel opens for convenient access to the bottom blade holder, accommodating pinned, pinless, and spiral blades.
- **Variable Speed Control:** Adjust strokes per minute from 550 to 1600 for optimal cutting performance across different materials.
- **Tilting Work Table:** The 16.25-by-10-inch table bevels up to 45 degrees for angled cuts.
- **Integrated Dust Management:** Features an adjustable air pump and a 1-1/2-inch dust port to keep the cutting line clear.
- **Stable Operation:** A cast iron base reduces vibration and movement during use.



Image 1.1: Front view of the WEN 3922 Scroll Saw, highlighting its overall design and the WEN branding.

2. Important Safety Information

Read and understand all safety warnings and instructions before operating this scroll saw. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

General Power Tool Safety:

- **Work Area Safety:** Keep your 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. Do not expose power tools to rain or wet conditions. Avoid body contact with earthed or grounded surfaces.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the saw for extended periods. Do not wear loose clothing, jewelry, or long hair that can get caught in moving parts. Secure your workpiece with clamps or a vise.

Scroll Saw Specific Safety:

- **Blade Handling:** Always disconnect the power before changing blades or making adjustments. Ensure the blade is properly installed and tensioned before operation.
- **Operation:** Keep hands and fingers away from the blade path. Never reach under the table while the saw is running. Allow the blade to reach full operating speed before beginning a cut.
- **Material:** Only cut materials suitable for a scroll saw. Ensure the material is free of nails, screws, or other foreign objects.

- **Stability:** Mount or clamp the scroll saw securely to a workbench to prevent movement and vibration during operation.

3. Components Identification

Familiarize yourself with the various parts of your WEN 3922 Scroll Saw to ensure safe and effective operation.



Image 3.1: Rear view of the WEN 3922 Scroll Saw, illustrating the power switch and variable speed control knob.

- **Upper Arm:** Houses the upper blade clamp and tensioning mechanism.
- **Lower Arm:** Houses the lower blade clamp and provides the reciprocating motion.
- **Work Table:** The surface where the workpiece rests, capable of tilting for angled cuts.
- **Blade Guard:** A protective cover over the blade area.
- **Blade Tension Knob:** Adjusts the tension of the scroll saw blade.
- **Variable Speed Knob:** Controls the strokes per minute (SPM) of the blade.
- **On/Off Switch:** Powers the saw on and off.
- **Air Pump Nozzle:** Directs air to clear sawdust from the cutting line.
- **Dust Port:** Connects to a dust collection system for a cleaner workspace.
- **Side Panel:** Provides easy access to the lower blade clamp for blade changes.

4. Setup and Assembly

Before operating your scroll saw, proper assembly and setup are essential for safety and performance.

4.1 Unpacking and Inspection:

1. Carefully remove all components from the packaging.
2. Inspect the saw for any shipping damage. If damage is found, do not operate the saw and contact customer support.
3. Ensure all listed components are present.

4.2 Mounting the Scroll Saw:

For stable operation and to reduce vibration, it is recommended to securely mount the scroll saw to a sturdy workbench.

- Identify the mounting holes on the base of the saw.
- Position the saw on your workbench and mark the locations for drilling.
- Drill appropriate holes and secure the saw using bolts, washers, and nuts (not included).
- Alternatively, use C-clamps to temporarily secure the saw to the workbench.

4.3 Blade Installation:

The WEN 3922 accepts pinned, pinless, and spiral blades. Always ensure the saw is unplugged before changing blades.

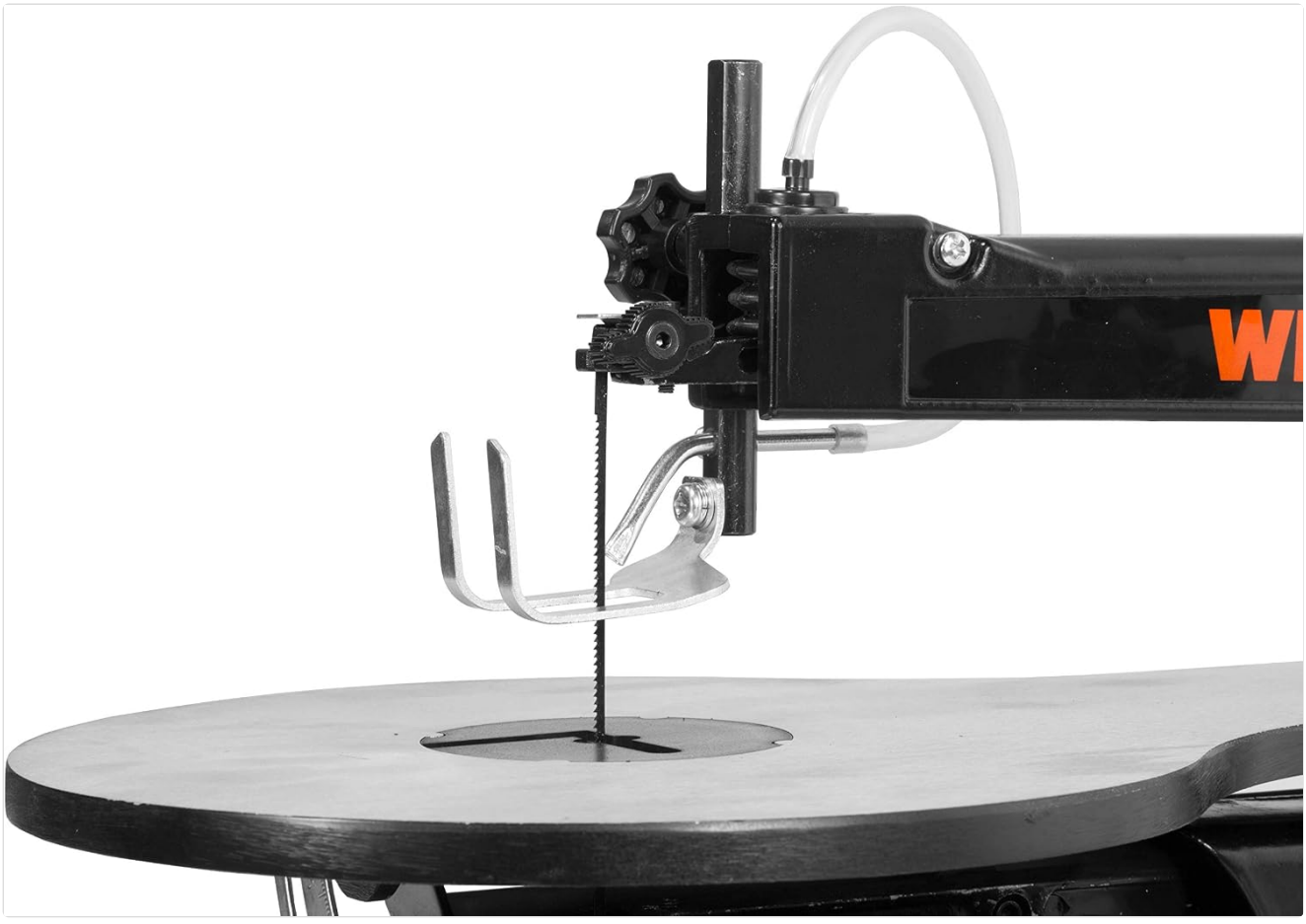


Image 4.1: Close-up view of the blade area, showing the upper and lower blade clamps and the air pump nozzle.

1. **Disconnect Power:** Unplug the scroll saw from the power outlet.
2. **Remove Old Blade (if applicable):** Loosen the blade tension knob. Open the side panel for access to the lower blade clamp. Loosen the thumb screws on both upper and lower blade clamps and carefully remove the old blade.
3. **Install New Blade:** Insert the new blade into the lower blade clamp, ensuring the teeth point downwards towards the table. Tighten the lower thumb screw.
4. **Position Workpiece:** Feed the blade through the hole in your workpiece (if making an internal cut) or through the table slot.
5. **Secure Upper Blade:** Attach the top end of the blade into the upper blade clamp. Ensure the blade is straight and aligned. Tighten the upper thumb screw.
6. **Adjust Tension:** Turn the blade tension knob clockwise to apply tension. The blade should be taut and produce a clear 'ping' sound when plucked. Avoid over-tightening, which can lead to blade breakage.
7. **Close Side Panel:** Close the side panel securely.

4.4 Dust Port Connection:

Connect a shop vacuum or dust collection system to the 1-1/2-inch dust port located at the rear of the saw for efficient dust removal.

5. Operation

Once the saw is set up and a blade is installed, you can begin operation. Always wear appropriate safety gear.



Image 5.1: The WEN 3922 Scroll Saw demonstrating the work table tilted to a 45-degree angle for bevel cuts.

5.1 Basic Cutting:

1. **Power On:** Plug the saw into a suitable power outlet. Turn the On/Off switch to the 'ON' position.
2. **Adjust Speed:** Rotate the variable speed knob to select the desired strokes per minute (SPM). Lower speeds are generally for thicker or harder materials, while higher speeds are for thinner or softer materials.
3. **Position Workpiece:** Place your workpiece flat on the work table, ensuring it is stable.
4. **Engage Air Pump:** Ensure the air pump nozzle is directed towards the cutting line to clear sawdust.
5. **Begin Cut:** Gently feed the workpiece into the blade. Do not force the material; allow the blade to cut at its own pace. Maintain a steady, even pressure.
6. **Follow Line:** Guide the workpiece along your marked cutting line. Use both hands for control if necessary, keeping them clear of the blade.
7. **Power Off:** Once the cut is complete, turn the On/Off switch to 'OFF' and wait for the blade to come to a complete stop before removing the workpiece or making adjustments.

5.2 Angled Cuts:

The work table can be tilted up to 45 degrees for bevel cuts.

1. **Disconnect Power:** Unplug the saw.
2. **Loosen Table Lock:** Locate the table lock knob beneath the table and loosen it.
3. **Adjust Angle:** Tilt the table to the desired angle, using the angle scale for reference.
4. **Secure Table:** Tighten the table lock knob firmly to secure the table at the chosen angle.
5. **Resume Operation:** Plug in the saw and proceed with cutting as described in Section 5.1.

6. Maintenance

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

6.1 Cleaning:

- **Disconnect Power:** Always unplug the saw before cleaning.
- **Remove Dust:** Use a brush, vacuum, or compressed air to remove sawdust from the motor vents, table, and blade area.
- **Clean Table:** Wipe the work table with a clean cloth. For stubborn resin buildup, use a suitable cleaner.

6.2 Blade Storage:

Store blades in a dry place to prevent rust and damage. Dispose of dull or broken blades safely.

6.3 General Inspection:

- Periodically check all nuts, bolts, and screws for tightness. Tighten as needed.
- Inspect the power cord for any damage. Replace if frayed or cut.
- Ensure the air pump is functioning correctly and clearing sawdust effectively.

7. Troubleshooting

This section addresses common issues you might encounter with your WEN 3922 Scroll Saw.

Problem	Possible Cause	Solution
Saw does not start	No power; Faulty switch	Check power connection and outlet. Ensure switch is fully engaged.
Blade breaks frequently	Incorrect blade tension; Forcing workpiece; Wrong blade type for material	Adjust blade tension (should be taut but not over-tight). Reduce feed rate. Use appropriate blade for material thickness and type.
Excessive vibration	Saw not securely mounted; Loose components	Ensure saw is firmly clamped or bolted to a stable surface. Check and tighten all fasteners.
Sawdust not clearing	Air pump nozzle misaligned or blocked; Dust port not connected	Adjust air pump nozzle to direct air onto the cutting line. Clear any blockages. Connect a dust collection system to the dust port.

Problem	Possible Cause	Solution
Inaccurate or rough cuts	Dull blade; Incorrect blade tension; Table not square to blade	Replace with a sharp blade. Adjust blade tension. Verify table is square to the blade for straight cuts.

8. Specifications

Technical details for the WEN 3922 16-inch Variable Speed Scroll Saw.

- **Model:** 3922
- **Throat Depth:** 16 inches
- **Stroke Length:** 9/16 inch
- **Variable Speed:** 550 - 1600 strokes per minute (SPM)
- **Max Cutting Thickness:** 2 inches
- **Table Size:** 16.25 x 10 inches
- **Table Tilt:** 0 to 45 degrees (left)
- **Dust Port Size:** 1-1/2 inches
- **Power Source:** Corded Electric
- **Voltage:** 15 Volts (Note: Product operates on 120V for North American market)
- **Wattage:** 225 watts
- **Item Weight:** 24.9 pounds
- **Product Dimensions:** 16"L x 15.3"W x 13"H
- **Blade Type:** Accepts pinned, pinless, and spiral blades (5-inch)
- **Base Material:** Cast Iron

9. Warranty and Customer Support

9.1 Warranty Information:

The WEN 3922 Scroll Saw typically comes with a limited warranty. For specific details regarding the duration and terms of your warranty, please refer to the documentation included with your purchase or visit the official WEN website. Keep your proof of purchase for warranty claims.

9.2 Protection Plans:

Extended protection plans may be available for purchase separately to cover your product beyond the standard manufacturer's warranty. Options may include:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan covering multiple eligible purchases)

These plans offer additional coverage for repairs or replacement. Review the terms and conditions of any protection plan before purchase.

9.3 Customer Support:

For technical assistance, replacement parts, or warranty inquiries, please contact WEN customer service. Contact information can typically be found on the official WEN website or in the product packaging.

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