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> WEN 3923 16-Inch Variable Speed Scroll Saw and WEN 6502T 4.3-Amp 4x36-inch Belt and 6-inch Disc Sander Instruction Manual

WEN 3923, 6502T

WEN 3923 16-Inch Variable Speed Scroll Saw and WEN 6502T 4.3-Amp 4x36-inch Belt and 6-inch Disc Sander Instruction Manual

Model Numbers: 3923, 6502T

INTRODUCTION

This manual provides essential instructions for the safe operation, setup, maintenance, and troubleshooting of your WEN 3923 16-Inch Variable Speed Scroll Saw and WEN 6502T 4.3-Amp 4x36-inch Belt and 6-inch Disc Sander. Please read this manual thoroughly before using the tools to ensure proper function and safety.



Image: The WEN 3923 16-Inch Variable Speed Scroll Saw (left) and the WEN 6502T 4.3-Amp 4x36-inch Belt and 6-inch Disc Sander (right) displayed together.

GENERAL SAFETY INSTRUCTIONS

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. Do not use any

adapter plugs with earthed (grounded) power tools. Avoid body contact with earthed or grounded surfaces.

- **Personal Safety:** Always wear eye protection. Use hearing protection when operating noisy tools. Dress properly; avoid loose clothing, jewelry, or long hair that can get 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 and/or remove the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Specific Scroll Saw Safety:** Ensure the blade is properly installed and tensioned before operation. Keep hands clear of the blade path. Use the hold-down foot clamp to secure workpieces.
- **Specific Sander Safety:** Ensure the belt and disc are securely attached. Do not sand materials containing nails or foreign objects. Always use the work table and miter gauge for stability.

SETUP AND ASSEMBLY

WEN 3923 Scroll Saw Setup

1. **Unpacking:** Carefully remove the scroll saw from its packaging. Inspect for any shipping damage.
2. **Mounting:** Secure the scroll saw to a stable workbench using appropriate fasteners (not included) through the mounting holes in the base.
3. **Blade Installation:**
 - Open the side panel for easy access to the bottom blade holder.
 - Insert the desired blade (pinned, pinless, or spiral) into the lower and upper blade holders. Ensure the teeth point downwards.
 - Adjust blade tension using the tension knob until the blade is taut but not overly stressed.
4. **Work Light and Air Pump:** Position the flexible work light and adjustable air pump to illuminate your work area and clear sawdust.
5. **Dust Port Connection:** Connect a 1-1/2-inch dust collection system to the dust port for a cleaner work environment.



Image: A close-up view of the WEN 3923 Scroll Saw, highlighting the flexible work light and the blade area with the hold-down foot clamp.



Image: The WEN 3923 Scroll Saw with its unique side panel swung open, demonstrating easy access to the bottom blade holder for quick blade changes.

WEN 6502T Belt and Disc Sander Setup

1. **Unpacking:** Remove the sander from its packaging and inspect for damage.
2. **Mounting:** Secure the sander to a stable workbench using appropriate fasteners (not included) through the mounting holes in the cast iron base.
3. **Belt Installation:** Ensure the sanding belt is correctly oriented and tensioned on the rollers.
4. **Disc Installation:** Verify the sanding disc is securely attached to the disc plate.
5. **Work Table and Miter Gauge:** Attach the cast-aluminum work table and miter gauge to the disc sander as needed for your project.
6. **Dust Port Connection:** Connect a 2.25-inch dust collection system to the dust port for efficient dust removal.



Image: The WEN 6502T Belt and Disc Sander, showing the 4x36 inch belt and 6 inch disc, along with the adjustable work table and miter gauge.

OPERATING INSTRUCTIONS

WEN 3923 Scroll Saw Operation

- **Power On/Off:** Use the ON/OFF switch to start and stop the saw.
- **Variable Speed Control:** Adjust the speed knob to select between 550 and 1600 strokes per minute, suitable for different materials and cutting intricacies.
- **Angled Cuts:** Loosen the table lock knob and tilt the 16.25-by-10-inch table up to 45 degrees for bevel cuts. Re-tighten the knob securely.
- **Workpiece Handling:** Place the workpiece flat on the table. Use the hold-down foot clamp to secure it firmly against the table, preventing vibration and lifting during cuts.
- **Cutting:** Guide the workpiece slowly and steadily into the blade. Do not force the material. Allow the blade to do the work.



Image: The WEN 3923 Scroll Saw demonstrating the table tilted for angled cuts, with the variable speed control and power switch visible.

WEN 6502T Belt and Disc Sander Operation

- **Power On/Off:** Use the ON/OFF switch to operate the sander.
- **Belt Sanding:**
 - The 4x36-inch belt can be used horizontally or tilted vertically up to 90 degrees for various sanding tasks. Adjust the belt angle using the locking mechanism.
 - Apply light, even pressure when sanding. Move the workpiece consistently across the belt to prevent uneven wear and gouging.
- **Disc Sanding:**
 - Use the 6-inch disc for shaping and smoothing. The cast-aluminum work table provides support.
 - For precise angles, utilize the miter gauge by sliding it into the table's groove.
 - Always sand on the downward-rotating side of the disc to prevent the workpiece from being thrown upwards.

- **Stop Bar:** Use the stop bar for safety and control, especially when sanding smaller pieces.



Image: The WEN 6502T Belt and Disc Sander with the sanding belt positioned horizontally, suitable for general sanding tasks.



Image: The WEN 6502T Belt and Disc Sander with the sanding belt tilted to a vertical position, allowing for more versatile sanding operations.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your WEN tools. Always disconnect power before performing any maintenance.

- **Cleaning:** Regularly clean sawdust and debris from both tools, especially around moving parts, motors, and ventilation openings. Use compressed air or a brush.
- **Scroll Saw Blade Replacement:** Replace dull or broken blades promptly. Refer to the "Setup" section for blade installation instructions.
- **Sander Belt/Disc Replacement:** Replace worn sanding belts and discs to maintain sanding efficiency and quality. Follow the manufacturer's instructions for proper replacement.
- **Lubrication:** Periodically check for any lubrication points specified in the full product manual (if available) and apply appropriate lubricant.
- **Inspection:** Routinely inspect power cords, switches, and all moving parts for wear or damage. Replace damaged components immediately.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Scroll Saw: Blade breaks frequently	Incorrect blade tension, forcing the workpiece, wrong blade type for material.	Adjust blade tension. Reduce feed pressure. Use appropriate blade for material thickness and type.
Scroll Saw: Inaccurate cuts	Loose blade, worn blade, table not square to blade.	Check blade tension. Replace blade. Verify table squareness and adjust if necessary.
Sander: Poor sanding performance	Worn belt/disc, incorrect grit, excessive pressure.	Replace sanding belt/disc. Use appropriate grit for the task. Apply lighter, even pressure.
Sander: Excessive vibration	Loose mounting, unbalanced belt/disc, damaged components.	Ensure sander is securely mounted. Check belt/disc for damage or improper installation.
Both Tools: Motor does not start	No power, faulty switch, internal wiring issue.	Check power supply and circuit breaker. Ensure tool is plugged in. Contact customer support if issues persist.

SPECIFICATIONS

WEN 3923 16-Inch Variable Speed Scroll Saw

- **Model:** 3923
- **Throat Depth:** 16 inches
- **Stroke Length:** 9/16 inch
- **Variable Speed:** 550 - 1600 strokes per minute (SPM)
- **Table Size:** 16.25 x 10 inches
- **Table Bevel:** 0 to 45 degrees
- **Max Cutting Thickness:** 2 inches

- **Dust Port:** 1-1/2 inches
- **Blade Type:** Accepts pinned, pinless, and spiral blades
- **Power Source:** Corded Electric
- **Voltage:** 120 Volts
- **Base Material:** Cast Iron

WEN 6502T 4.3-Amp 4x36-inch Belt and 6-inch Disc Sander

- **Model:** 6502T
- **Motor:** 4.3 Amp, 1/2 HP
- **Belt Size:** 4 x 36 inches
- **Belt Tilt:** 0 to 90 degrees
- **Disc Size:** 6 inches
- **Disc RPM:** Up to 3600 RPM
- **Dust Port:** 2.25 inches
- **Power Source:** Corded Electric
- **Voltage:** 120 Volts
- **Base Material:** Cast Iron
- **Work Table Material:** Cast Aluminum

WARRANTY INFORMATION

Both the WEN 3923 Scroll Saw and WEN 6502T Belt and Disc Sander come with a **two-year warranty**. This warranty covers defects in material and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please refer to the official WEN product documentation or contact WEN customer service.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or warranty inquiries, please contact WEN customer service. WEN maintains a stocked inventory of replacement parts and a friendly customer help line to assist you. Refer to the official WEN website or your product packaging for the most current contact information.

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