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WEN 3921

WEN 16-Inch Variable Speed Scroll Saw (Model 3921) Instruction Manual

Brand: WEN

1. Introduction and Overview

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your WEN 16-Inch Variable Speed Scroll Saw. This scroll saw is designed for intricate and artful cuts in various wood types. It features a 9/16-inch stroke, adjustable speed from 550 to 1600 strokes per minute, and a cast iron base for stability. The spacious 16-by-10-inch table can bevel up to 45 degrees for angled cuts. An adjustable air pump clears sawdust, and a 1-1/2-inch dust port helps maintain a clean work area. The saw includes a hold-down foot clamp and a flexible work light. Its unique blade holder accepts both pinned and pinless blades, allowing for directional cutting to accommodate specific workpieces. For pinned blades, the direction can be changed by rotating the blade 90 degrees, extending the effective throat capacity beyond 16 inches. The removable pinless blade holder ensures a tight grip, preventing blades from coming loose. Onboard blade and holder storage is also provided.



Figure 1: Front view of the WEN 16-Inch Variable Speed Scroll Saw.

2. Key Features

- **Dual-Direction Blade Acceptance:** Unique design allows blades to be oriented in two directions (standard and 90 degrees) for infinite ripping capacity.
- **Variable Speed Control:** Adjusts from 400 to 1600 strokes per minute for optimal cutting performance across different materials.
- **Spacious Beveling Table:** A 16-by-11-inch table bevels up to 45 degrees to the left, enabling precise angled cuts.
- **Cutting Capacity:** Capable of cutting wood up to 2 inches thick with a 16-inch throat depth in the standard position.
- **Convenient Features:** Includes a thumb screw blade adapter for tool-free blade changes, a sturdy cast iron base for stability, an air pump to clear sawdust, a flexible LED work light for improved visibility, a dust port for debris collection, a foot lock clamp for securing workpieces, and integrated onboard storage for blades and accessories.



Figure 2: Close-up view of the blade area, hold-down foot, and flexible work light.

3. Setup

Before initial use, ensure the scroll saw is placed on a stable, level surface. For optimal performance and to minimize vibration, it is recommended to securely mount the unit to a workbench using the provided mounting holes. The cast iron base is designed to reduce vibration during operation. Ensure all components are properly assembled and tightened according to the detailed instructions in the full user manual. Verify that the power switch is in the OFF position and the safety pull-tab is removed before connecting to a power source.



Figure 3: Side view of the scroll saw, showing the motor housing and power cord connection point.

4. Operating Instructions

To operate the WEN Scroll Saw, first ensure the safety pull-tab is fully inserted into the power switch. Adjust the variable speed knob to your desired setting (550 to 1600 SPM) based on the material being cut. The flexible LED work light illuminates the cutting area for clear visibility. The adjustable air pump will clear sawdust from your line of sight. For angled cuts, loosen the table adjustment screw and tilt the table up to 45 degrees to the left. The hold-down foot clamp should be adjusted to securely hold your workpiece against the table. Always wear appropriate safety gear, including eye protection, when operating the saw. Refer to the full user manual for detailed instructions on blade installation (both pinned and pinless), tension adjustment, and specific cutting techniques.



Figure 4: Rear view displaying the power switch, variable speed control, and table bevel adjustment knob.

5. Maintenance

Regular maintenance is crucial for the longevity and performance of your scroll saw. Keep the work area clean, especially around the blade and table. Utilize the integrated dust port (1-1/2-inch) with a shop vacuum to minimize sawdust accumulation. Periodically inspect the blade for wear and replace as needed. The user manual provides guidance on lubricating the bushings every 50 hours of operation. Always disconnect the power supply and remove the safety pull-tab before performing any maintenance or cleaning procedures.

6. Troubleshooting

If the saw does not power on, ensure the safety pull-tab is fully inserted into the power switch. If excessive vibration occurs, verify the unit is securely mounted to a stable surface. For issues with blade tension or cutting accuracy, consult the detailed instructions in the user manual regarding blade installation and tensioning. If sawdust buildup is affecting visibility, ensure the air pump is clear and the dust port is connected to a functioning vacuum system. For any persistent issues not covered here, refer to the comprehensive troubleshooting section in the full user manual or contact WEN customer support.

7. Specifications

Specification	Detail
Brand	WEN
Model Number	3921
Power Source	Corded Electric
Voltage	120 Volts
Wattage	144 watts
Speed	400 to 1600 SPM (Strokes Per Minute)
Throat Depth	16 Inches
Max Cut Thickness	2 Inches
Table Dimensions	16"L x 11"W
Table Bevel	Up to 45 Degrees (Left)
Item Weight	25.5 Pounds
Product Dimensions	26.38"L x 13"W x 14.75"H

8. Warranty and Support

The WEN 16-Inch Variable Speed Scroll Saw comes with a two-year warranty. For detailed warranty information, technical support, or to order replacement parts, please refer to the official User Manual (PDF) available for download here. You may also contact WEN customer service directly for assistance.

9. Official Product Videos

No official product videos from the seller are available for embedding at this time. Please refer to the user manual for detailed instructions and diagrams.

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