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WEN 4212T 5-Amp 10-Inch Variable Speed Benchtop Drill Press with Laser Instruction Manual

MODEL: 4212T | BRAND: WEN

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your WEN 4212T 5-Amp 10-Inch Variable Speed Benchtop Drill Press with Laser. Please read and understand all instructions before use to ensure proper functionality and user safety.





Figure 1: WEN 4212T 10-Inch Variable Speed Benchtop Drill Press

2. Safety Information

Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, and gloves when operating the drill press. Ensure the workpiece is securely clamped before drilling. Keep hands clear of the rotating chuck and drill bit. Disconnect power before making adjustments or performing maintenance. Do not operate the machine in damp or wet conditions. Maintain a clean and well-lit work area.

3. Features Overview

- **Powerful Motor:** Equipped with a 5-amp induction motor for reliable performance across various materials.
- **Variable Speed:** Mechanical variable speed allows adjustment from 530 to 3100 RPM, suitable for different drilling applications.
- **Digital Speed Readout:** An integrated LED display shows the current RPM for precise speed control.



Figure 2: Digital Speed Readout

- **10-Inch Swing:** Provides a 10-inch swing capacity, allowing drilling through the center of workpieces up to 10 inches in diameter.
- **2-Inch Spindle Travel:** Offers a 2-inch maximum spindle travel for deeper drilling.
- **1/2-Inch Keyed Chuck:** Accommodates drill bits up to 1/2 inch in diameter, with convenient on-board storage for the chuck key.
- **Beveling Work Table:** The 8 by 7.5-inch cast-iron worktable can bevel 45° left and right for angled drilling operations.



Figure 3: Beveling Work Table

- **Precision Laser:** A Class IIIA 2.5mW laser pinpoints the exact drilling location, enhancing accuracy.
- **Sturdy Cast Iron Base:** The 8 by 12.5-inch cast iron base provides stability and includes predrilled holes for secure benchtop mounting.

4. Setup and Assembly

1. **Unpacking:** Carefully remove all components from the packaging. Verify all parts are present according to the packing list.
2. **Base Mounting:** Secure the drill press to a sturdy workbench using the predrilled holes in the cast iron base. Use appropriate bolts and washers (not included) to prevent movement during operation.
3. **Column and Head Assembly:** Follow the detailed diagrams in the included manufacturer's manual for attaching the column to the base and the head assembly to the column.
4. **Worktable Installation:** Mount the worktable to the column, ensuring it can be freely adjusted up and down and can pivot.
5. **Chuck Installation:** Clean the spindle taper and the inside of the chuck. Install the chuck onto the spindle with a firm, twisting motion.

5. Operating Instructions

1. **Power Connection:** Connect the drill press to a standard 120V AC power outlet.
2. **Installing a Drill Bit:** Insert the desired drill bit into the chuck jaws. Use the chuck key to tighten the jaws securely around the bit. Ensure the bit is centered.
3. **Adjusting Spindle Speed:** Use the mechanical variable speed lever to select the appropriate RPM for your material and drill bit size. The digital LED readout will display the current speed.



Figure 4: Variable Speed Adjustment Lever

4. **Adjusting Worktable Height and Angle:** Loosen the worktable locking handle to adjust its height or to bevel

it up to 45 degrees left or right. Securely tighten the handle after adjustment.

5. **Using the Laser Guide:** Activate the laser guide to project crosshairs onto your workpiece, indicating the exact drilling point.
6. **Setting Drilling Depth:** Utilize the adjustable depth stop to control the maximum depth of your drill. This ensures consistent and repeatable drilling depths.
7. **Starting the Drill Press:** Press the ON switch to start the motor. Allow the drill bit to reach full speed before contacting the workpiece.
8. **Drilling:** Apply steady, even pressure to the feed handles to lower the drill bit into the material. Avoid excessive force.
9. **Stopping the Drill Press:** Press the OFF switch to stop the motor. Wait for the chuck and drill bit to come to a complete stop before removing the workpiece.

6. Maintenance

- **Regular Cleaning:** Keep the drill press clean from dust, chips, and debris. Use a brush or vacuum.
- **Lubrication:** Periodically lubricate moving parts such as the column, rack, and pinion mechanism to ensure smooth operation.
- **Belt Inspection:** Check the drive belt for wear, cracks, or proper tension. Replace if necessary.
- **Chuck Maintenance:** Keep the chuck jaws clean and free of debris to ensure a secure grip on drill bits.

7. Troubleshooting

- **Motor Does Not Start:** Check power connection, ensure the ON/OFF switch is engaged, and verify the circuit breaker.
- **Excessive Vibration/Noise:** Inspect for loose components, check belt tension, and ensure the drill bit is properly installed and not bent.
- **Inaccurate Drilling:** Verify the laser alignment, ensure the workpiece is securely clamped, and check for any play in the spindle or worktable.
- **Difficulty Adjusting Speed:** Ensure the machine is running when adjusting the mechanical variable speed lever.

8. Specifications

Specification	Value
Brand	WEN
Model Number	4212T
Power Source	AC
Amperage	5 Amps
Voltage	120V
Maximum Rotational Speed	3100 RPM
Minimum Rotational Speed	530 RPM
Maximum Chuck Size	0.5 Inches

Spindle Travel	2 Inches
Swing	10 Inches
Worktable Dimensions	8" x 7.5"
Worktable Bevel	45° Left/Right
Laser Type	Class IIIA 2.5mW
Product Dimensions	33.9"L x 13.2"W x 19.3"H
Item Weight	57 Pounds

9. Warranty and Support

The WEN 4212T Benchtop Drill Press comes with a two-year warranty. For product questions, technical support, or replacement parts, please contact WEN customer support. You can reach them by phone at 1-800-232-1195 (M-F 8AM-5PM CST) or via email at techsupport@wenproducts.com. Further information is available at WENPRODUCTS.COM.