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**WEN BG4282**

# WEN BG4282 8-Inch Bench Grinder Instruction Manual

Model: BG4282

## 1. Introduction

Thank you for choosing the WEN BG4282 8-Inch Bench Grinder. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before operating the bench grinder to ensure proper use and to maximize its lifespan. This bench grinder is designed for sharpening, deburring, and cleaning various tools and objects.

## 2. Safety Information

**WARNING: Always wear appropriate personal protective equipment, including safety glasses or goggles, during operation. Ensure the work area is clean, well-lit, and free from obstructions.**

- Familiarize yourself with all controls and proper operating procedures before use.
- Ensure the bench grinder is securely mounted to a workbench to prevent movement during operation.
- Keep hands and fingers clear of the grinding wheels at all times.
- Do not operate the grinder without the eye guards and wheel guards properly installed and adjusted.
- The 4.8-amp motor operates at speeds up to 3450 RPM. Use caution and appropriate pressure when grinding.
- Utilize the onboard coolant tray to quench workpieces and prevent overheating, which can warp tools.
- Disconnect the power supply before performing any adjustments, maintenance, or when changing grinding wheels.

## 3. Package Contents

Your WEN BG4282 8-Inch Bench Grinder package includes the following components:

- WEN BG4282 4.8-Amp 8-Inch Single Speed Bench Grinder with LED Work Lights
- One 60-grit grinding wheel (8-inch by 1-inch with 5/8-inch arbor)
- One 36-grit grinding wheel (8-inch by 1-inch with 5/8-inch arbor)
- Adjustable eye guards with built-in LED lights
- Pivoting tool rests

- Onboard coolant tray
- Instruction Manual

## 4. Product Overview




Figure 4.1: Overall view of the WEN BG4282 Bench Grinder, showcasing its compact design with two grinding wheels, protective eye guards, and adjustable tool rests.



Figure 4.2: Detail of the adjustable eye guard, which includes a built-in LED light to provide clear illumination of the workpiece during grinding operations.

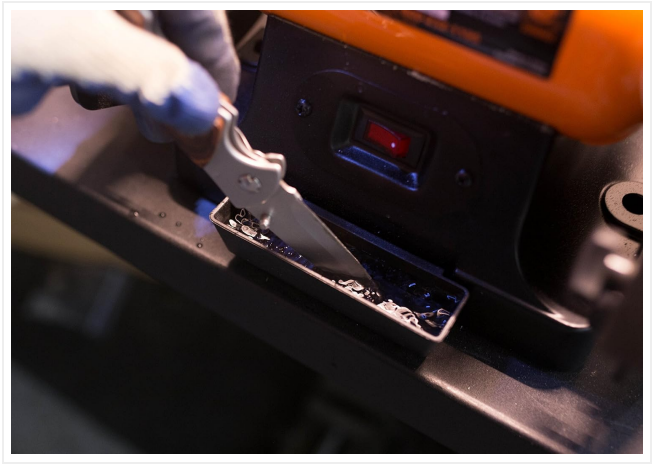

Figure 4.3: The integrated coolant tray, designed to hold water for quenching hot workpieces, preventing material warping and maintaining tool integrity.

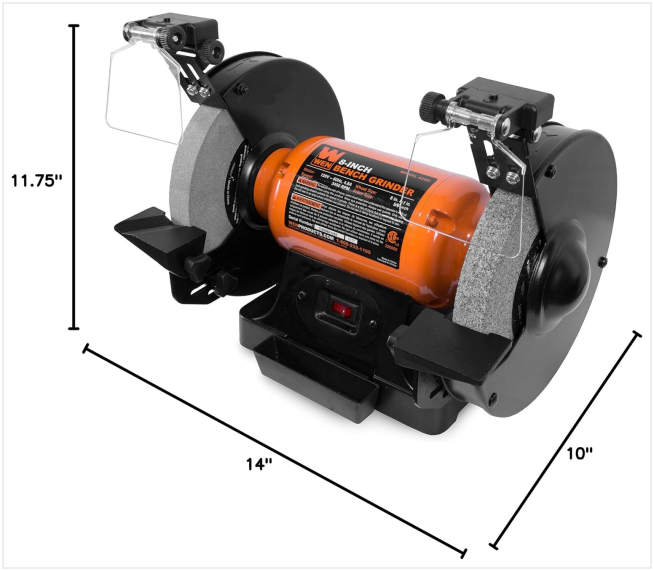


Figure 4.4: Dimensional view of the bench grinder, indicating its length (14 inches), width (10 inches), and height (11.75 inches) for proper placement and storage.

## 5. Setup

### 5.1 Mounting the Grinder

For stable and safe operation, the WEN BG4282 Bench Grinder must be securely mounted to a sturdy workbench. Use appropriate bolts and washers (not included) through the mounting holes in the base of the grinder to fasten it firmly.

### 5.2 Attaching Eye Guards and Tool Rests

1. Attach the eye guards to the designated mounting points above each grinding wheel using the provided hardware. Adjust their position to provide maximum protection without obstructing your view of the workpiece. The built-in LED lights on the eye guards can be angled to illuminate your work.
2. Install the pivoting tool rests in front of each grinding wheel. Ensure they are securely fastened and can be adjusted to the desired angle for your grinding application. The tool rests should be positioned as close as possible to the grinding wheel (approximately 1/16 inch) without touching it.

### 5.3 Wheel Installation/Replacement

The bench grinder comes with two wheels pre-installed. If replacement is necessary:

1. **Disconnect the grinder from the power source.**
2. Remove the outer wheel guard cover. The design allows for simple removal for easy wheel changes.
3. Carefully remove the old grinding wheel and replace it with a new one, ensuring it is properly seated on the arbor. The wheels are 8-inch by 1-inch with a 5/8-inch arbor.
4. Re-secure the wheel guard cover.

## 6. Operating Instructions

### 6.1 Powering On/Off

To turn on the bench grinder, press the power switch located on the front of the unit. To turn it off, press the switch again. Allow the wheels to reach full speed before beginning any grinding operation.

### 6.2 Grinding Techniques

The WEN BG4282 is equipped with a 60-grit wheel for general purpose grinding and a 36-grit wheel for faster material removal. Always use light, even pressure when grinding. Avoid excessive force, which can damage the tool or workpiece.

- **Sharpening:** For sharpening blades (knives, chisels, etc.), hold the tool firmly against the tool rest at the desired angle and gently move it across the grinding wheel.
- **Deburring/Cleaning:** For removing burrs or cleaning rusty objects, apply the workpiece to the grinding wheel with controlled pressure.

### 6.3 Using the Coolant Tray

Fill the onboard coolant tray with water. During long grinding sessions or when working with heat-sensitive materials, periodically dip the workpiece into the water to cool it down. This prevents excessive heat buildup that can warp or damage the material.

### 6.4 Adjusting Work Rests

The adjustable work rests pivot to allow for angled grinding applications. Loosen the locking knob, set the rest to the desired angle, and then tighten the knob securely before grinding.

## 7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your WEN BG4282 Bench Grinder.

- **Cleaning:** After each use, disconnect the grinder from power and clean off any dust or debris from the motor housing, wheels, and guards. Use a soft brush or compressed air.
- **Wheel Dressing:** Over time, grinding wheels can become glazed or out of round. Use a wheel dresser (sold separately) to restore the wheel's cutting surface and shape.
- **Inspection:** Periodically inspect the power cord for damage, ensure all fasteners are tight, and check the grinding wheels for cracks or excessive wear. Replace damaged components immediately.

## 8. Troubleshooting

If you encounter issues with your WEN BG4282 Bench Grinder, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| Grinder does not start. | No power supply; faulty switch. | Check power outlet and cord. Ensure switch is fully engaged. |
| Excessive vibration. | Grinder not securely mounted; unbalanced or damaged wheel. | Ensure grinder is firmly bolted to workbench. Dress or replace grinding wheel. |
| Poor grinding performance. | Glazed or worn grinding wheel; incorrect wheel for task. | Dress the grinding wheel to expose fresh abrasive. Ensure correct grit wheel is used. |
| Overheating of workpiece. | Excessive pressure; lack of cooling. | Reduce grinding pressure. Utilize the coolant tray frequently. |

## 9. Specifications

| Feature | Detail |
|---|---|
| Model Number | BG4282 |
| Motor | 4.8-Amp |
| Wattage | 576 watts |
| Wheel Diameter | 8 inches |
| Wheel Thickness | 1 inch |
| Arbor Size | 5/8 inch |
| Maximum Rotational Speed | 3450 RPM |
| Power Source | AC |
| Product Dimensions (L x W x H) | 14" x 10" x 11.75" |
| Item Weight | 30.5 Pounds |
| Color | Black and Orange |

## 10. Warranty and Support

The WEN BG4282 8-Inch Bench Grinder comes backed by a two-year warranty. For technical assistance, replacement parts, or warranty claims, please contact WEN customer service.

**Customer Service:**

**Phone:** 1-847-429-9263

**Website:** WENPRODUCTS.COM

WEN maintains a stocked inventory of replacement parts to ensure your tool remains operational for years to come.

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