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› Woodriver 180-Grit CBN Grinding Wheel Instruction Manual

WOODRIVER LX-3512-180

Woodriver 180-Grit CBN Grinding Wheel Instruction Manual

Model: LX-3512-180

1. PRODUCT OVERVIEW

The Woodriver 180-Grit CBN Grinding Wheel is designed for precision grinding and sharpening tasks. Featuring a Cubic Boron Nitride (CBN) coated surface, this 8-inch diameter, 1-inch thick wheel is engineered for durability and consistent performance. It is balanced and machined from a steel plate, ensuring smooth operation on grinders with a 5/8-inch arbor.

Key features include:

- **Cubic Boron Nitride (CBN) Coating:** Provides superior hardness and abrasion resistance for efficient material removal.
- **Balanced Steel Plate Construction:** Ensures smooth, vibration-free operation and extended wheel life.
- **No Dressing Required:** The CBN surface maintains its shape and cutting ability without the need for periodic dressing.
- **Economical and Long-lasting:** The CBN coating is designed to last for many years under routine use.

2. SAFETY INFORMATION

Always prioritize safety when operating power tools. Failure to follow safety instructions can result in serious injury.

- Always wear appropriate personal protective equipment (PPE), including safety glasses or a face shield, hearing protection, and gloves.
- Ensure the grinder is unplugged before installing or removing the grinding wheel.
- Verify that the grinding wheel's arbor hole matches the grinder's arbor shaft size (5/8 inch).
- Do not exceed the maximum RPM rating of the grinding wheel or the grinder.
- Keep hands and clothing clear of the rotating wheel.
- Ensure work rests are properly adjusted and secured, with a gap no greater than 1/8 inch from the wheel.
- Never use a damaged or cracked grinding wheel. Inspect the wheel before each use.

3. SETUP AND INSTALLATION

Proper installation is crucial for safe and effective operation.

1. **Power Disconnection:** Ensure the grinder is unplugged from its power source before beginning installation.
2. **Remove Existing Wheel:** Carefully remove any existing grinding wheel and associated hardware from the grinder's arbor shaft.

3. **Inspect Arbor and Wheel:** Clean the grinder's arbor shaft and inspect the new Wooddriver CBN wheel for any damage. Confirm the wheel's 5/8-inch arbor hole matches your grinder's shaft.
4. **Mount the Wheel:** Slide the Wooddriver CBN grinding wheel onto the grinder's arbor shaft. Ensure it sits flush against the inner flange.
5. **Secure the Wheel:** Install the outer flange and arbor nut. Tighten the nut securely, but do not overtighten, as this can damage the wheel.
6. **Test for Wobble:** Manually rotate the wheel to check for any excessive wobble or runout. If wobble is present, re-seat the wheel and re-tighten.
7. **Adjust Work Rests and Guards:** Position the work rests to within 1/8 inch of the wheel's surface. Ensure all safety guards are properly in place.



Figure 1: The Wooddriver 8" x 1" CBN Grinding Wheel, showing its 180 grit surface.



Figure 2: Detail of the Wooddriver CBN Grinding Wheel, illustrating its steel plate core and 5/8" arbor fit.

4. OPERATING INSTRUCTIONS

Follow these guidelines for effective and safe grinding:

- **Power On:** Plug in the grinder and turn it on. Allow the wheel to reach full operating speed before beginning work.
- **Workpiece Presentation:** Gently bring the workpiece into contact with the grinding wheel. Apply light, consistent pressure. Avoid excessive force, which can cause overheating or damage.
- **Angle and Direction:** Maintain the desired grinding angle. For sharpening, move the tool across the wheel's face to ensure even wear and a consistent edge.
- **Cooling:** While CBN wheels generate less heat than traditional abrasive wheels, it is still good practice to periodically cool the workpiece if it becomes hot, especially for heat-sensitive materials.
- **Avoid Side Grinding:** This wheel is designed for grinding on its face. Avoid grinding on the sides of the wheel, as this can compromise its integrity and safety.
- **Finish:** Continue grinding until the desired shape or sharpness is achieved.

5. MAINTENANCE

The Wooddriver CBN Grinding Wheel is designed for minimal maintenance.

- **No Dressing Required:** Unlike conventional grinding wheels, this CBN wheel never requires dressing to expose new abrasive or restore its shape. The CBN particles are bonded to maintain their cutting efficiency throughout the wheel's lifespan.
- **Cleaning:** Periodically clean any accumulated dust or debris from the wheel and grinder using a brush or compressed air (with appropriate safety precautions).
- **Storage:** When not in use, store the grinding wheel in a dry, protected environment to prevent damage.
- **Inspection:** Regularly inspect the wheel for any signs of damage, such as cracks or chips. Discontinue use immediately if damage is found.



Figure 3: The Wooddriver CBN Grinding Wheel, highlighting its feature of not requiring dressing.

6. TROUBLESHOOTING

If you encounter issues, consider the following:

- **Excessive Vibration:**
 - Ensure the wheel is properly seated and the arbor nut is securely tightened.
 - Check for any debris between the wheel and the flanges.
 - Verify the grinder's arbor shaft is not bent or damaged.
- **Poor Grinding Performance:**
 - Ensure the workpiece is clean and free of contaminants.
 - Verify that appropriate pressure is being applied; too little or too much can reduce efficiency.
 - Confirm the wheel is rotating in the correct direction for your application.
- **Overheating of Workpiece:**
 - Reduce grinding pressure.
 - Take shorter passes and allow the workpiece to cool periodically.

7. SPECIFICATIONS

Specification	Detail
Brand	WOODRIVER
Model Number	LX-3512-180
Grit Material	Cubic Boron Nitride
Grit Number	180
Grit Type	Medium
Item Diameter	8 Inches
Item Thickness	1 Inches
Arbor Size	5/8 Inches (compatible with grinders with a 5/8" arbor)
Construction Type	Coated (Cubic Boron Nitride)
Product Dimensions	8"L x 8"W
Item Weight	7.38 pounds
Recommended Uses	Grinding, Sharpening
Compatible Devices	Die Grinder (and other grinders with 5/8" arbor)

8. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Woodriver 180-Grit CBN Grinding Wheel, please contact Woodcraft Supply, the manufacturer. Refer to your purchase documentation or the Woodcraft website for specific warranty terms and contact details.

Manufacturer: Woodcraft Supply

Website: www.woodcraft.com