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› AVID POWER Electric Rotary Tool User Manual

AVID POWER AEDG128-B

AVID POWER Electric Rotary Tool User Manual

Model: AEDG128-B

Brand: AVID POWER

1. INTRODUCTION

Thank you for choosing the AVID POWER Electric Rotary Tool. This versatile tool is designed for a wide range of applications, including grinding, cutting, carving, sanding, polishing, and drilling. With its powerful 1.0 Amp motor and 6 variable speeds, it provides precision and control for both DIY projects and professional tasks. This manual provides essential information for safe and effective operation, setup, maintenance, and troubleshooting.



Figure 1.1: AVID POWER Electric Rotary Tool, carrying case, flex shaft, accessory case, and 107 pieces of tool accessories.

2. SAFETY INFORMATION

Operating any power tool requires strict adherence to safety guidelines to prevent injury. Always read and understand all safety warnings and instructions before using this tool.

General Safety Rules:

- **Eye Protection:** Always wear ANSI-approved safety goggles or safety glasses with side shields.
- **Respiratory Protection:** Wear a dust mask when operating the tool in dusty environments.
- **Hearing Protection:** Use hearing protection during prolonged operation.
- **Work Area:** Keep your work area clean, well-lit, and free of clutter. Ensure proper ventilation.
- **Secure Workpiece:** Always secure the workpiece with clamps or a vise to prevent movement during operation. Never hold the workpiece by hand.
- **Proper Attire:** Do not wear loose clothing, jewelry, or long hair that can get caught in moving parts.
- **Electrical Safety:** Ensure the tool is unplugged before changing accessories or performing maintenance. Do not

operate in wet conditions.

- **Accessory Compatibility:** Only use accessories designed for and compatible with this rotary tool.
- **Maintain Control:** Always maintain a firm grip on the tool. Be aware of kickback or sudden movements.
- **Avoid Overreaching:** Maintain proper footing and balance at all times.

3. PACKAGE CONTENTS

Upon opening your AVID POWER Electric Rotary Tool package, please verify that all items listed below are present and in good condition:

- 1 x AVID POWER Electric Rotary Tool
- 1 x Flex Shaft
- 1 x Carrying Case
- 1 x Accessory Case
- 107 x Rotary Tool Accessories (including various bits for sanding, carving/grinding, cutting, polishing/cleaning)
- 1 x User Manual (this document)

107PCS Accessories



Kit Box



Flexible Shaft x 1



Accessory Case



Sanding
Paper x 40



1/2" Sanding
Bands x 5



1/4" Sanding
Band x 5



Sanding Drums x 2

Sanding



Diamond-Point
Bits x 2



Grinding
Wheel x 2



Aluminum Oxide
Grinding Stones x 10

Carving/Grinding



Wrench x 1



L wrench x 1



Dressing
Stone x 1



Collets, 1/8In.
Built-in, 3/32In. x 2

Cutting



Nylon
Brush x 1



Steel Wire
Brush x 1



1" Felt Polishing
Wheels x 2



1/2" Polishing
Wheels x 2



Felt Wheel
Mandrel x 1

Polishing/Cleaning

Figure 3.1: Overview of the 107 included accessories, categorized by function.

4. SPECIFICATIONS

Feature	Specification
Brand	AVID POWER

Model Number	AEDG128-B
Voltage	120 Volts
Power Source	Corded Electric
Minimum Rotational Speed	10,000 RPM
Maximum Rotational Speed	32,000 RPM
Item Weight	4.2 pounds
Color	3-blue
Special Features	Compact, Electric, Multi Use, Variable Speed

5. SETUP

Follow these steps to properly install accessories onto your rotary tool:

1. **Step 1:** Push down the spindle lock button located on the front of the tool. This locks the shaft, allowing you to loosen the collet nut.
2. **Step 2:** While holding the spindle lock button, loosen the collet nut counter-clockwise.
3. **Step 3:** Insert the shaft of the desired accessory into the chuck. Ensure the accessory is fully seated.
4. **Step 4:** Press the spindle lock button again and tighten the collet nut clockwise until the accessory is securely held. Do not overtighten.

Easy to install

- 1 Push down the spindle lock button and loosen the collet nut counterclockwise
- 2 Insert the shaft of the attachment into the chuck
- 3 Press the spindle lock button and tighten the collet nut clockwise



Figure 5.1: Easy installation steps for rotary tool accessories.

Using the Flex Shaft:

The included flex shaft provides extended reach and enhanced control for intricate tasks. To attach the flex shaft, remove the collet nut and collet from the main tool. Screw the flex shaft's connector onto the tool's threaded shaft. Insert the desired accessory into the flex shaft's chuck and tighten its collet nut.



Figure 5.2: The flexible shaft allows for precise control, holding like a pen.

6. OPERATING INSTRUCTIONS

The AVID POWER Rotary Tool features a powerful motor and variable speed control for optimal performance across different materials and applications.

Tool Features:



Figure 6.1: Key features of the AVID POWER Electric Rotary Tool.

- **ON/OFF Switch:** Located on the side of the tool, slide to turn the tool on or off.
- **Variable Speed Dial:** Adjust the rotation speed from 10,000 to 32,000 RPM using the dial. Start with a lower speed and gradually increase as needed for the material and task.
- **Ergonomic Design:** The anti-slip rubber-covered handle provides a comfortable grip, reducing fatigue during extended use.

Applications:

This tool is suitable for a variety of tasks:

- **Polishing:** Use felt wheels and polishing compounds to bring a shine to various surfaces.
- **Grinding:** Utilize grinding stones for sharpening, deburring, and smoothing rough edges.



Figure 6.2: Examples of polishing and grinding applications.

- **Drilling:** Use appropriate drill bits for precise holes in various materials.
- **Cutting:** Employ cutting wheels for slicing through thin materials. Exercise caution as cutting wheels can break.



Figure 6.3: Examples of drilling and cutting applications.

- **Sanding:** Attach sanding bands or discs for smoothing surfaces, removing rust, or shaping materials.
- **Carving/Engraving:** Use diamond-point bits or aluminum oxide grinding stones for detailed work on wood, plastic, or soft metals.

7. MAINTENANCE

- Regular maintenance ensures the longevity and optimal performance of your AVID POWER Rotary Tool.
- **Cleaning:** After each use, unplug the tool and use a soft brush or compressed air to remove dust and debris from the ventilation openings and around the chuck.
 - **Brush Replacement:** The tool features external brush covers. Periodically check the carbon brushes for wear. Replace them when they are worn down to approximately 1/4 inch (6mm) or if the tool experiences reduced power or intermittent operation. Always replace both brushes at the same time.
 - **Cord Inspection:** Regularly inspect the power cord for any signs of damage, cuts, or fraying. If damaged, have it repaired by a qualified technician.
 - **Storage:** Store the tool and its accessories in the provided carrying case in a dry, clean, and secure location, out of reach of children.

8. TROUBLESHOOTING

If you encounter issues with your AVID POWER Rotary Tool, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Tool does not start	No power supply; ON/OFF switch not fully engaged; Worn carbon brushes	Check power outlet and cord; Ensure switch is fully in 'ON' position; Replace carbon brushes
Reduced power or intermittent operation	Worn carbon brushes; Overload; Dirty motor/vents	Replace carbon brushes; Reduce pressure on tool; Clean ventilation openings
Excessive vibration or noise	Bent accessory shaft; Loose accessory; Damaged internal components	Replace bent accessory; Re-secure accessory in chuck; Contact customer support if problem persists
Accessory slips in chuck	Collet nut not tight enough; Incorrect collet size; Worn collet	Tighten collet nut securely; Ensure correct collet for accessory shaft size; Replace collet if worn

If the problem persists after attempting these solutions, please contact AVID POWER customer support.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please refer to the warranty card included with your product or visit the official AVID POWER website. Keep your purchase receipt as proof of purchase for any warranty claims.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question