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› AVID POWER Cordless Rotary Tool (Model CRT324) User Manual

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Brand: AVID POWER | Model: CRT324

IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety warnings and instructions before operating this tool. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection when appropriate. Stay alert, watch what you are doing, and use common sense when operating a power tool.
- **Power Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Store idle power tools out of the reach of children.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs. When battery pack is not in use, keep it away from other metal objects.
- **Service:** Have your power tool serviced by a qualified repair person using only identical replacement parts.

PRODUCT OVERVIEW

This section details the components and key features of your AVID POWER Cordless Rotary Tool.

Components



Image Description: The AVID POWER Cordless Rotary Tool, its 60-piece accessory kit, and a black zippered carrying bag. The tool is red and black, with various bits, sanding bands, cut-off wheels, and polishing pads laid out.

- AVID POWER 8V, 2.0AH Cordless Rotary Tool
- Battery Charger
- 60 x Rotary Tool Accessories Kit
- Canvas Tool Bag
- User Manual

Key Features

- **Powerful Motor & 5 Variable Speeds:** Built-in 8V battery provides strong and steady power. Variable speeds range from 5,000 to 25,000 RPM.
- **Rechargeable & Convenient:** Cordless design with a 2.0 Ah battery and included charger. Quick charging time of 3-4 hours.
- **4 Front LED Lights:** Illuminates your projects in low-light situations, enhancing visibility.
- **Ergonomic & Portable:** Anti-slip rubber-covered handle for comfortable grip. Compact and lightweight for delicate tasks. Includes a zippered storage bag.

- **Versatile 60-Piece Accessory Kit:** Suitable for grinding, cutting, sanding, carving, polishing, drilling, and more.

SETUP

Charging the Battery

The tool is powered by an integrated 8V 2.0 Ah Lithium-Ion battery. Ensure the battery is fully charged before first use and whenever the power indicator shows low battery.

8V 2.0 Ah Battery for Longer Working Time

3-5 Hrs Fast Charging Time



Image Description: The AVID POWER rotary tool connected to a wall charger, illustrating the charging process with a blue light indicating power flow.

1. Connect the provided charger to a standard electrical outlet.
2. Plug the charger's output connector into the charging port on the rotary tool.
3. The battery charging indicator lights on the tool will illuminate to show charging status. A full charge typically takes 3-4 hours.
4. Once fully charged, disconnect the charger from the tool and the power outlet.

Attaching Accessories

The tool features a spindle lock for easy and quick changes of rotary bits and accessories.



Image Description: A four-panel image demonstrating how to change accessories on the rotary tool using the spindle lock and collet. It shows pressing the button, unscrewing, inserting the bit, and tightening.

1. Ensure the tool is turned off and disconnected from the charger.
2. Press and hold the spindle lock button located near the chuck.
3. Unscrew the collet nut counter-clockwise.
4. Insert the shank of the desired accessory into the collet. Ensure it is inserted as far as possible for secure gripping.
5. While still holding the spindle lock button, tighten the collet nut clockwise until the accessory is firmly secured.
6. Release the spindle lock button. Gently pull on the accessory to confirm it is securely fastened before operation.

Attaching Sanding Drums

How to Fix Sanding

Band on Sanding Drum



- 1 Align sanding drum over the mandrel.
- 2 Use the provided wrench to tighten the screw.

Image Description: A diagram showing how to align a sanding drum over a mandrel and tighten it with a wrench.

1. Align the appropriate sized sanding band over the rubber sanding drum.
2. Insert the mandrel of the sanding drum into the tool's collet as described above.
3. Use the provided wrench to tighten the screw on the sanding drum mandrel, expanding the rubber drum to secure the sanding band.

Attaching Cut-off Wheels



Image Description: A diagram illustrating the steps to attach a cut-off wheel to a mandrel using a screw and washer, then tightening it with a wrench.

1. Remove the mandrel screw and washer.
2. Place the desired cut-off wheel over the mandrel shaft. Note: The washer should be placed between the screw and the accessory.
3. Tighten with the provided wrench.

Attaching Polishing Wheels



Image Description: A diagram showing how to align a polishing wheel's hole with a mandrel screw head and twist clockwise until secure.

1. Align the desired polishing wheel's hole with the mandrel screw head.
2. Screw the accessory onto the mandrel by twisting clockwise until secure.

OPERATING INSTRUCTIONS

Powering On/Off

To turn the tool on, slide the power switch to the "On" position. To turn it off, slide the switch to the "Off" position.

Speed Control

The tool features 5 variable speeds, allowing you to adjust the rotation speed for your specific task.

5 Variable Speeds

Powerful Motor



Image Description: The AVID POWER rotary tool displaying its 5 variable speed settings, ranging from 5,000 to 25,000 RPM, indicated by LED lights.

- Use the speed adjustment buttons (+ and -) to cycle through the 5 speed settings (5,000, 10,000, 15,000, 20,000, 25,000 RPM).
- **Lower Speeds (5,000 - 15,000 RPM):** Ideal for delicate tasks, polishing, and dog nail grinding.
- **Higher Speeds (20,000 - 25,000 RPM):** Suitable for heavier duty tasks such as cutting, grinding, and carving.
- **Important Note:** When grinding dog nails, always use the lower speed settings (5,000-15,000 RPM) to prevent injury

and discomfort to the animal. Do not use 20,000-25,000 RPM for this application.

Using the LED Lights

The tool is equipped with 4 front LED lights to enhance visibility during operation.



Image Description: A hand holding the AVID POWER rotary tool, with its front LED lights illuminating the carving work being performed on a piece of wood, highlighting the work surface.

- The LED lights automatically activate when the tool is turned on.

- These lights are particularly useful for working in dimly lit areas or for tasks requiring precise illumination, such as dog nail grinding.

Application Examples

The AVID POWER rotary tool is a versatile instrument suitable for a wide range of applications. Always select the appropriate accessory and speed for the material and task.

Dog Nail Grinding



Image Description: A person gently holding a dog's paw and using the AVID POWER rotary tool to grind its nails. The tool's low noise and LED lights make it suitable for this task.

- Use a specialized grinding stone or sanding band.
- Set the tool to a low speed (5,000-15,000 RPM).
- Gently introduce the rotating accessory to the nail, grinding in short bursts to avoid overheating the nail.
- The LED lights help to visualize the quick of the nail, preventing over-grinding.

Sanding



Image Description: The rotary tool with a sanding band attachment being used to smooth a wooden surface, generating fine dust.

- Perfect for cleaning, finishing, or surface preparation on wood, plastic, and metal.
- Use sanding bands of various grits depending on the desired finish.

Cutting



Image Description: The rotary tool with a cut-off wheel attachment being used to cut through a piece of metal, producing sparks.

- Ideal for clean cuts or surface preparation on plastic and metal.
- Ensure the material is securely clamped before cutting.

Grinding/Sharpening



Image Description: The rotary tool with a grinding stone attachment being used to grind a small metal object held by pliers.

- Perfect for deburring, removing rust, or sharpening on metal surfaces.
- Use appropriate grinding stones for the material.

Drilling



Image Description: The rotary tool with a drill bit attachment being used to drill a small hole into a wooden board.

- Use steel bits for drilling holes in wood, plastic, shells, and other soft materials.
- Apply steady, even pressure.

Carving/Engraving



Image Description: The rotary tool with an engraving bit attachment being used to engrave text onto a clear plastic sheet, demonstrating detailed work.

- Perfect for detailed carving, engraving, or shaping on wood, glass, plastic, and other materials.
- Select diamond-point bits or carving bits suitable for your material.

Cleaning/Polishing



Image Description: A split image showing the rotary tool polishing a small stone with a felt wheel on the left, and cleaning rust from a metal surface with a wire brush on the right.

- Use felt polishing wheels for sparkling projects on metal, stone, or shells.
- Utilize wire brushes for cleaning rust and corrosion from metal surfaces.

MAINTENANCE

Cleaning

Regular cleaning ensures optimal performance and extends the lifespan of your rotary tool.

- Always ensure the tool is turned off and disconnected from the charger before cleaning.
- Use a soft, dry cloth to wipe down the exterior of the tool.
- Remove any dust or debris from the ventilation slots using a soft brush or compressed air.
- Clean accessories after each use to prevent material buildup, which can affect performance.

Storage

- Store the tool and its accessories in the provided canvas tool bag.
- Keep the tool in a dry, secure location, away from direct sunlight, extreme temperatures, and moisture.
- Store out of reach of children.
- If storing for extended periods, ensure the battery is partially charged (not fully depleted or fully charged) to maintain battery health.

TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Tool does not turn on	Battery is depleted; Power switch is off	Charge the battery; Ensure power switch is in "On" position
Reduced power or speed	Low battery; Incorrect speed setting for task; Accessory jammed	Recharge battery; Adjust speed to a higher setting; Clear any obstructions from the accessory
Accessory wobbles or falls out	Accessory not properly secured; Incorrect collet size; Worn collet	Re-secure accessory firmly; Use the correct collet for the accessory shank size; Replace worn collet if necessary
Tool overheats	Continuous heavy use; Blocked ventilation slots	Allow tool to cool down; Clear ventilation slots of debris

SPECIFICATIONS

Feature	Specification
Brand	AVID POWER
Model Number	CRT324
Voltage	8 Volts
Power Source	Battery Powered
Battery Type	Lithium Ion
Battery Capacity	2.0 Ah
Variable Speeds	5 (5,000 - 25,000 RPM)
Special Feature	4 LED lights
Item Weight	0.3 Kilograms (10.6 ounces)
Product Dimensions (L x W x H)	1 x 1 x 8 inches

Feature	Specification
Included Components	1 x 8V, 2.0AH Cordless Rotary Tool, 1 x Battery Charger, 1 x Instruction Manual, 1 x Tool Bag, 60 x Rotary Tool Accessories Kit

WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please refer to the documentation included with your purchase or visit the official AVID POWER website.

You can also find more information and contact details by visiting the AVID POWER Store on Amazon:

[Visit the AVID POWER Store](#)

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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

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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