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› AVID POWER 20V Cordless Drill Set User Manual

## AVID POWER ACD318-B

# AVID POWER 20V Cordless Drill Set User Manual

Model: ACD318-B

## 1. INTRODUCTION

Thank you for choosing the AVID POWER 20V Cordless Drill Set. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new drill. Please read this manual thoroughly before first use and keep it for future reference.



Image 1.1: AVID POWER 20V Cordless Drill Set, showcasing the drill, battery, and overall design.

## 2. SAFETY INFORMATION

Always follow basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury.

### General Safety Warnings:

- **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 such as pipes, radiators, ranges, and refrigerators. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating for extended periods. Dress properly; do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
- **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.
- **Battery Pack Use and Care:** Recharge only with the charger specified by the manufacturer. Do not disassemble the battery pack. Do not short-circuit the battery pack.

### 3. PACKAGE CONTENTS

Upon opening your AVID POWER 20V Cordless Drill Set, please verify that all the following items are included:

- 20V Cordless Drill
- Lithium-ion Battery Pack
- Battery Charger
- Metal Belt Hook
- Double-end Driver Bit
- Instruction Manual (this document)

### 4. PRODUCT FEATURES AND COMPONENTS

Familiarize yourself with the key features and components of your AVID POWER 20V Cordless Drill.

# POWERFUL 320 IN-LBS TORQUE



Image 4.1: Key components of the drill, including the chuck, torque setting, trigger, and battery.

- **3/8" Keyless Chuck:** Allows for quick and easy bit changes without the need for a chuck key.
- **15+1 Torque Setting:** Provides 15 torque settings for driving screws and one drill mode for drilling. This allows precise control to prevent overdriving screws or damaging materials.
- **2-Speed Gearbox:** Offers two variable speed ranges (0-350 RPM and 0-1350 RPM) for optimal performance in various applications.
- **Forward/Reverse Switch:** Controls the direction of rotation for driving and removing screws.
- **Variable Speed Trigger:** Allows for precise speed control based on the pressure applied to the trigger.
- **Built-in LED Light:** Illuminates the work area for improved visibility in dimly lit conditions.
- **20V MAX Lithium-Ion Battery:** Provides reliable power with features like overcharge, thermal, and over-voltage protection.
- **Belt Clip:** Conveniently attaches the drill to your belt for easy access.

## 5. SETUP

### 5.1 Charging the Battery

Before first use, fully charge the Lithium-ion battery pack. The battery is not fully charged at the factory.

1. Connect the charger to a standard electrical outlet.
2. Slide the battery pack onto the charger until it clicks into place.
3. The charging indicator on the battery or charger will show the charging status. Refer to the charger's specific instructions for light indications.
4. Once fully charged, disconnect the charger from the outlet and remove the battery pack.



Image 5.1: Internal view of the 20V Lithium-Ion Battery highlighting its protection features.

### 5.2 Installing/Removing the Battery Pack

- **To Install:** Align the battery pack with the base of the drill handle and slide it in until it clicks securely into place.
- **To Remove:** Press the battery release button (located on the front of the battery pack) and slide the battery

pack out of the drill handle.

### 5.3 Installing/Removing Drill Bits

- **To Install:** Rotate the chuck counter-clockwise to open the jaws. Insert the desired drill bit or driver bit into the chuck. Rotate the chuck clockwise to tighten the jaws firmly around the bit. Ensure the bit is centered and secure.
- **To Remove:** Rotate the chuck counter-clockwise to loosen the jaws and pull the bit out.

## 6. OPERATING INSTRUCTIONS

### 6.1 Selecting Speed

The drill features a 2-speed gearbox. Use the speed selector switch located on top of the drill to choose between:

- **Speed 1 (Low, 0-350 RPM):** For high torque applications such as driving screws or drilling large holes.
- **Speed 2 (High, 0-1350 RPM):** For fast drilling of small holes or light-duty driving.

## 2 Variable Speed

0-450 RPM / 0-1500 RPM



## Forward/ Reverse Switch

Designed for multi-function

## LED Light

For Superior visibility



Image 6.1: Details of the speed selector, forward/reverse switch, and integrated LED light.

### 6.2 Setting Torque

The torque adjustment collar allows you to set the amount of torque before the clutch disengages. This prevents overdriving screws or damaging the workpiece.

- Rotate the torque adjustment collar to the desired setting. Lower numbers are for smaller screws and softer materials, while higher numbers are for larger screws and harder materials.
- For drilling, set the collar to the drill symbol (usually the highest setting) to bypass the clutch and provide maximum power.

# 15+1 Torque setting



Image 6.2: The torque adjustment collar with numerical settings and drill symbol.

## 6.3 Forward/Reverse Operation

The forward/reverse switch is located above the trigger. Push the switch to the left for forward rotation (driving screws, drilling) and to the right for reverse rotation (removing screws). Center position locks the trigger for safety.

## 6.4 Drilling and Driving

Hold the drill firmly with both hands if possible, especially for high-torque applications. Apply steady, even pressure. The integrated LED light will activate when the trigger is pressed, illuminating your work area.

## Drilling Wood



## Driving Screws



Image 6.3: Demonstrations of the drill's versatility in drilling into wood and driving screws into furniture.



Image 6.4: A user drilling into a metal surface, demonstrating the drill's capability for various materials.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drill.

- **Cleaning:** Keep the ventilation slots of the drill clean to prevent overheating. Use a soft, damp cloth to wipe down the exterior. Do not use harsh chemicals or abrasive cleaners.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits.
- **Battery Care:** Store battery packs in a cool, dry place away from direct sunlight and extreme temperatures. Do not store fully discharged batteries for extended periods.
- **Storage:** When not in use, store the drill and its accessories in a dry, secure location out of reach of children.

## 8. TROUBLESHOOTING

This section addresses common issues you might encounter with your drill.

Problem	Possible Cause	Solution
Drill does not turn on.	Battery not charged or not properly installed. Trigger lock engaged.	Ensure battery is fully charged and securely installed. Check if the forward/reverse switch is in the center (locked) position; move it to forward or reverse.
Battery not charging.	Charger not plugged in. Battery or charger fault.	Ensure charger is securely plugged into a working outlet. Check for damage to battery or charger. Contact customer support if issue persists.
Bit slips in chuck.	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Tighten chuck firmly. Clean the bit shank. Replace damaged bits.
Drill stops during operation.	Overload protection activated. Battery low.	Reduce pressure on the drill. Allow the drill to cool down. Recharge the battery.

## 9. SPECIFICATIONS

Detailed technical specifications for the AVID POWER 20V Cordless Drill Set.

Specification	Value
Model Number	ACD318-B
Voltage	20 Volts (DC)
Power Source	Battery Powered
Battery Type	Lithium-Ion
Maximum Torque	320 Inch Pounds
No-Load Speed (Low)	0-350 RPM
No-Load Speed (High)	0-1350 RPM
Chuck Size	3/8 inches (Keyless)
Number of Torque Settings	15+1
Item Weight	2.3 Pounds
Product Dimensions	9.4"L x 4.7"W x 9"H
Material	Metal, Plastic, Rubber

## 10. WARRANTY AND SUPPORT

AVID POWER stands behind the quality of its products. For warranty information, please refer to the warranty card included with your purchase or visit the official AVID POWER website. For any questions, technical assistance, or customer support, please contact our US-based customer support team.

Contact information can typically be found on the product packaging or the official AVID POWER website.