

AVID POWER ACD316

AVID POWER 20V MAX Lithium Ion Cordless Drill Set User Manual

Brand: AVID POWER | Model: ACD316

1. IMPORTANT SAFETY INSTRUCTIONS

Always observe basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operating this product.

- **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. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use safety glasses or goggles. Use hearing protection when operating for extended periods. Dress properly. Do not wear loose clothing or jewelry. Keep your 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. The correct power tool will do the job better and safer at the rate for which it was designed. Disconnect the plug from the power source and/or 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. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack. Use power tools only with specifically designated battery packs.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all items listed below are present and in good condition:

- 1 x AVID POWER 20V Cordless Drill
- 1 x Lithium-ion Battery Pack (1.5Ah)
- 1 x Battery Charger
- 10 x Drill Bits (various sizes for wood and metal)
- 10 x Driver Bits (various types)
- 1 x Magnetic Flexible Shaft
- 1 x Extension Bar

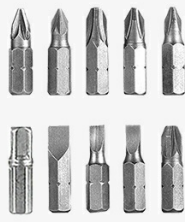


Image: The complete AVID POWER 20V MAX Lithium Ion Cordless Drill Set, including the drill, battery, charger, and all 22 pieces of drill and driver bits, flexible shaft, and extension bar.

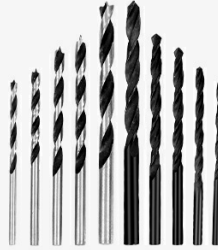
INCLUDES



Flexible Shaft



Screw Driver bits



Drill Bits



Extension Bar

Image: A visual representation of the included accessories: flexible shaft, various screwdriver bits, multiple drill bits, and an extension bar.

3. PRODUCT OVERVIEW

Familiarize yourself with the main components of your AVID POWER Cordless Drill:



Image: A detailed diagram of the drill highlighting its main features: 3/8-inch Keyless Chuck, 16 Torque Setting Ring, Variable Speed Trigger, Forward/Reverse Switch, LED Light, and 20V Li-ion Battery.

- **3/8-Inch Keyless Chuck:** Allows for quick and easy bit changes without a key.
- **Torque Setting Ring:** Adjusts the torque (rotational force) for different applications, with 15+1 positions to prevent over-tightening or stripping screws.
- **Variable Speed Trigger:** Controls the drilling/driving speed based on pressure applied.
- **Forward/Reverse Switch:** Changes the rotation direction for driving or removing screws.
- **LED Light:** Illuminates the work area for improved visibility in low-light conditions.
- **20V MAX Lithium-ion Battery:** Provides cordless power for portability and convenience.
- **Driver Bit Holder:** Conveniently stores a driver bit on the tool.

4. SETUP

4.1 Charging the Battery

The battery pack is not fully charged upon purchase. It is recommended to fully charge the battery before first use.

1. Connect the charger to a standard electrical outlet.
2. Slide the battery pack onto the charger until it clicks into place.
3. The battery level display on the battery pack will indicate the charging status. A full charge is indicated when all lights are solid green.
4. Once fully charged, disconnect the charger from the outlet and remove the battery pack.

Note: This drill can only use the battery from AVID POWER. Do not use a battery from other brands or a battery with a larger capacity.

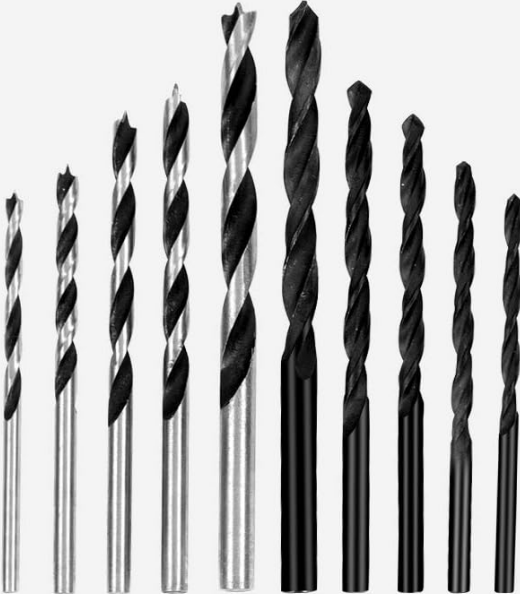
22 PCS PRACTICAL ACCESSORIES



Flexible Shaft



Extended Bar



1/8"	5/32"	11/64"	3/16"	1/4"	1/4"	3/16"	11/64"	5/32"	1/8"
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AD	1/4"	3/16"	5/32"	PZ3	PZ2	PZ1	PH3	PH2	PH1
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Image: The 20V Lithium-ion battery pack connected to its charger, showing the real-time battery level display during charging.



Battery Level



Charging State



Image: A diagram illustrating the battery level indicators (100%, 50%, 25%) and the charging state (charging vs. fully charged) as shown on the battery and charger.

4.2 Installing and Removing Drill/Driver Bits

1. To install a bit, hold the rear part of the chuck (the part closest to the drill body) with one hand and rotate the front part of the chuck counter-clockwise until the jaws are open wide enough to insert the bit.
2. Insert the desired drill or driver bit into the chuck. Ensure the bit is inserted as far as it will go.
3. Rotate the front part of the chuck clockwise to tighten the jaws securely around the bit. Hand-tighten firmly.
4. To remove a bit, reverse the process: hold the rear part of the chuck and rotate the front part counter-clockwise to loosen the jaws, then pull the bit out.

5. OPERATING INSTRUCTIONS

5.1 Variable Speed Control

The drill features a variable speed trigger, allowing you to control the rotational speed based on the pressure you apply.

- Press the trigger lightly for slower speeds, ideal for starting holes or driving screws.
- Press the trigger fully for maximum speed, suitable for drilling larger holes or faster driving.



LED WORKING LIGHT

LED light illuminates work surfaces
for increased visibility

Image: A hand demonstrating the use of the variable speed trigger on the drill, indicating its function for handling various tasks.



Image: A close-up view of the variable speed trigger, showing the mechanism for speed control.

5.2 Torque Settings

The drill features a 15+1 position torque setting ring, allowing you to select the appropriate torque for your task. This prevents over-driving screws or damaging materials.

- Rotate the torque setting ring to align the desired number with the arrow on the drill body.
- Lower numbers (1-5) are for driving small screws into soft materials.
- Medium numbers (6-10) are for driving screws into medium-density materials.
- Higher numbers (11-15) are for driving large screws or drilling into harder materials.
- The drill icon setting is for drilling applications, providing maximum torque.

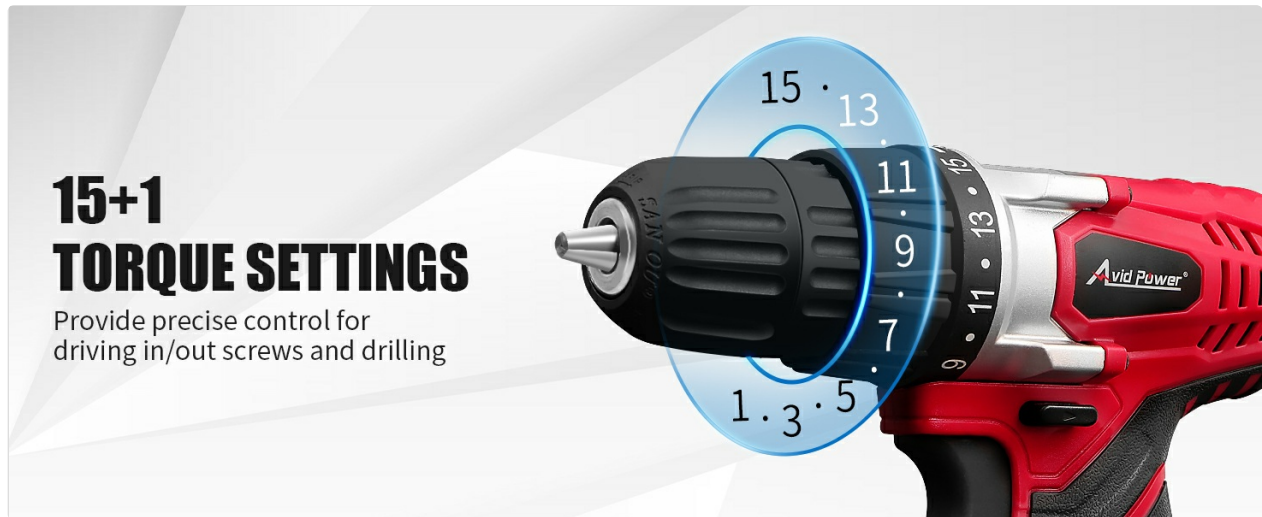


Image: A visual guide to the 15+1 torque settings on the drill's chuck, illustrating how to provide precise control for driving screws and drilling.

5.3 Forward/Reverse Switch

The forward/reverse switch controls the direction of rotation.

- Push the switch to the left for forward rotation (for drilling and driving screws).
- Push the switch to the right for reverse rotation (for removing screws or freeing jammed bits).
- Center the switch to lock the trigger, preventing accidental startup.



Image: A close-up view of the reverse/forward button, indicating its function for changing the drill's rotation direction.

5.4 LED Work Light

The integrated LED light automatically illuminates when the trigger is pressed, providing visibility in dark or

confined spaces.

FLEXIBLE SHAFT

Could be used for hard to reach places



Image: The cordless drill in use, with its LED light actively illuminating the work surface for increased visibility.



Image: A close-up view of the LED light located on the base of the drill, designed to illuminate the work area.

5.5 Using the Flexible Shaft

The included flexible shaft is designed for extending bits into narrow or hard-to-reach spaces where the drill itself cannot fit.

1. Insert the hexagonal end of the flexible shaft into the drill's keyless chuck and tighten securely.
2. Insert the desired drill or driver bit into the chuck at the other end of the flexible shaft and tighten.

3. Use the flexible shaft to access tight corners or awkward angles for drilling or driving.

20V LITHIUM-ION BATTERY



Charging



Fully Charged



Image: A person utilizing the flexible shaft attachment with the cordless drill to reach and operate in a confined space.



Image: A diagram illustrating the flexible shaft, highlighting its design for extending bits into narrow spaces.

6. MAINTENANCE

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

- **Cleaning:** After each use, wipe down the drill with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep the ventilation openings clear of dust and debris.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping of bits. Remove any dust or debris that may accumulate.
- **Battery Care:** Store the battery in a cool, dry place away from direct sunlight and extreme temperatures. Do not store the battery in a discharged state for extended periods.
- **Storage:** Store the drill, battery, and charger in a secure, dry location, out of reach of children.

7. TROUBLESHOOTING

If you encounter issues with your AVID POWER Cordless Drill, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drill does not turn on.	Battery not charged or not properly inserted. Forward/Reverse switch in center (locked) position.	Ensure battery is fully charged and securely inserted. Move the Forward/Reverse switch to either forward or reverse position.
Battery not charging.	Charger not plugged in. Faulty battery or charger.	Check power outlet and charger connection. If problem persists, contact customer support.
Bit slips in chuck.	Chuck not tightened sufficiently. Bit shank is dirty or damaged.	Ensure chuck is hand-tightened firmly. Clean or replace the bit.
Drill lacks power or stalls.	Battery low on charge. Incorrect torque setting for the task. Overloading the drill.	Recharge the battery. Adjust torque setting to a higher number or the drill icon. Reduce pressure on the drill.
Excessive vibration or noise.	Loose bit or accessory. Damaged internal components.	Ensure bit is securely tightened. If problem persists, discontinue use and contact customer support.

If the issue persists after attempting these solutions, please contact AVID POWER customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
Brand	AVID POWER
Model Number	ACD316
Power Source	Battery Powered
Voltage	20 Volts
Battery Type	Lithium Ion
Battery Capacity	1.5 Amp Hours
Maximum Rotational Speed	550 RPM
Maximum Torque	280 Inch Pounds
Chuck Size	3/8 Inches (Keyless)
Torque Settings	15+1 Positions
Drilling Capacity (Wood)	20 Millimeters (13/16-Inch)
Drilling Capacity (Metal)	10 Millimeters (3/8-Inch)
Item Weight	2.19 pounds (approx. 995 grams)
Product Dimensions	8.66"L x 3.15"W x 9.65"H
Special Features	Variable Speed, Built-in LED Light

9. WARRANTY AND SUPPORT

AVID POWER is committed to providing high-quality products. For specific warranty information, please refer to the documentation included with your purchase or visit the official AVID POWER website.

Additional protection plans may be available for purchase to extend coverage beyond the standard warranty period. Please check with your retailer for details on available protection plans.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact AVID POWER customer service:

- **Online Support:** Visit the AVID POWER official website for FAQs and support resources.
- **User Guide (PDF):** A digital version of the user guide is available for download at <https://manuals.plus/m/17d4755becbdb6eaf6834c19c053ccb379f50af5f9c2fd1e7d567dc0e7f42767>.

Please have your model number (ACD316) and purchase date ready when contacting support.

