

AVID POWER 20V Tire Inflator, ACD138 Brushless Power Drill Set

AVID POWER 20V Cordless Tire Inflator and Brushless Power Drill Set User Manual

Model: 20V Tire Inflator, ACD138 Brushless Power Drill Set

1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, maintenance, and troubleshooting of your AVID POWER 20V Cordless Tire Inflator and ACD138 Brushless Power Drill Set. Please read this manual thoroughly before using the tools to ensure proper function and to prevent injury.

Safety Information

- Always wear appropriate personal protective equipment, such as safety glasses, when operating power tools.
- Keep the 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- Store idle tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- Use the correct tool for your application. Do not force the tool.
- Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- Recharge only with the charger specified by the manufacturer.

2. PRODUCT COMPONENTS

Tire Inflator Components:

- 20V Cordless Tire Inflator
- 20V Li-ion Battery (rechargeable)
- 12V DC Adapter (9.8ft cord)

- Various inflation nozzles

Brushless Power Drill Set Components:

- ACD138 Brushless Power Drill
- 2.0Ah Lithium-ion Battery
- Battery Charger
- 10 Drill Bits
- 10 Screwdriver Bits
- Flexible Shaft
- Extension Bar

3. SETUP

Battery Charging:

Before first use, fully charge the 20V Li-ion battery. Connect the charger to a power outlet and insert the battery. The indicator light on the charger will show the charging status. Ensure the battery is fully charged for optimal performance.

BATTERY POWER DISPLAY



Image: Battery power display indicating charge levels.

Attaching/Detaching Battery:

To attach the battery, align the battery pack with the tool's base and slide it in until it clicks into place. To detach, press the release button on the battery pack and slide it out.

Drill Bit Installation:

Open the drill chuck by rotating it counter-clockwise. Insert the desired drill bit or screwdriver bit into the chuck. Rotate the chuck clockwise to tighten it securely around the bit. Ensure the bit is centered and firmly held before operation.



Image: Flexible shaft attached to the drill for reaching confined spaces.

4. OPERATING INSTRUCTIONS

4.1. Tire Inflator Operation

1. **Power Source Selection:** The inflator can be powered by the 20V Li-ion battery or the 12V DC adapter. Connect the preferred power source.
2. **Connect to Tire Valve:** Securely attach the inflation hose to the tire valve stem. Ensure a tight seal to prevent air leakage.
3. **Set Desired Pressure:** Use the control panel to set the target tire pressure (e.g., PSI, KPA, BAR).
4. **Start Inflation:** Press the start button. The inflator will begin to fill the tire.

5. **Auto Shut-off:** The inflator features an automatic shut-off system. It will stop inflating once the preset pressure is reached.
6. **Disconnect:** Once inflation is complete, disconnect the hose from the tire valve.

30 LPM Fast Inflation

Quick Tire Top-Ups

225/60 R17
25 → 35PSI <2 MINS



The image shows a red AVID POWER tire inflator connected to a car tire. The inflator is a handheld device with a black hose and a red handle. The car is a silver SUV, and the tire is a 225/60 R17. The background is a desert landscape under a blue sky. The inflator is connected to the tire valve, and the text indicates it can inflate a 225/60 R17 tire from 25 to 35 PSI in less than 2 minutes. There are also two tire icons with arrows between them, suggesting a transition from a flat tire to an inflated one.

* It's not suitable for large truck, motor lorries or large volume inflatables.

Image: The AVID POWER tire inflator connected to a car tire, demonstrating its use for quick inflation.

Smart Auto Shut-Off System

Handsfree Experience, Prevents Over-Inflation



/// Inflater will auto shut off when the preset value is reached.

Image: Digital display of the tire inflator showing the auto shut-off feature in action, with a preset pressure of 36.0 PSI.

Note: This inflator is designed for standard vehicle tires and small inflatables. It is not suitable for large truck tires or high-volume inflatables.

4.2. Power Drill Operation

1. **Select Speed:** The drill features a 2-speed gearbox.
 - *Low Speed (0-400 RPM):* Ideal for controlled screwdriving and applications requiring higher torque.
 - *High Speed (0-1400 RPM):* Suitable for fast drilling.

Adjust the speed selector switch located on top of the drill.

2. **Set Torque:** The drill has 25+1 clutch settings. Rotate the torque collar to the desired setting. Lower

settings are for driving small screws or working with soft materials, while higher settings are for larger screws or harder materials. The '+1' setting is for drilling mode, providing maximum torque.

3. **Grip the Tool:** Hold the drill firmly with both hands if necessary, ensuring a stable grip.
4. **Start Drilling/Driving:** Press the trigger switch to start the drill. The speed is variable based on trigger pressure.
5. **Maintain Control:** Apply steady, even pressure. Do not force the drill. Allow the tool to do the work.



Image: Illustration of the drill's 2-speed adjustment, showing low speed (0-400 RPM) and high speed (0-1400 RPM) settings.

25+1 TORQUE SETTINGS



Plastic



Wood



Metal



Brick



Concrete



Drilling Wood



Drilling Iron Plate



Drilling Concrete



Image: Diagram illustrating the 25+1 torque settings on the drill, suitable for various materials like plastic, wood, metal, brick, and concrete.

355 in-lbs **40 N.M**
Max torque



Image: The AVID POWER brushless drill in use, demonstrating its 355 in-lbs (40 N.M) max torque while drilling into a wall.

POWERFUL BRUSHLESS MOTOR



40 N.M
Max Torque



1400 RPM
Max Speed



Life Time
60%



Power
80%



Spark
50%



Noise
40%

Image: Internal diagram of the powerful brushless motor, highlighting its 40 N.M max torque and 1400 RPM max speed, contributing to increased lifetime, power, reduced spark, and noise.

5. MAINTENANCE

General Cleaning:

Keep the tools clean and free from dust and debris. Use a soft, dry cloth to wipe down surfaces. Do not use harsh chemicals or abrasive cleaners.

Battery Care:

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Recharge them periodically.

- Avoid dropping or damaging battery packs.

Chuck Maintenance (Drill):

Periodically inspect the drill chuck for wear or damage. Keep the chuck jaws clean to ensure proper bit gripping. A small amount of lubricant can be applied to the chuck threads if it becomes stiff.

6. TROUBLESHOOTING

Tire Inflator:

- **Inflator not turning on:** Check battery charge or 12V DC adapter connection. Ensure the power button is pressed.
- **Slow inflation or no air output:** Check for kinks in the hose. Ensure the nozzle is securely attached to the tire valve. Verify the preset pressure is higher than the current tire pressure.
- **Inflator stops prematurely:** The auto shut-off feature may have activated if the preset pressure was reached. Check the set pressure.

Power Drill:

- **Drill not turning on:** Check battery charge. Ensure the battery is properly seated.
- **Bit slipping in chuck:** Ensure the chuck is tightened securely around the bit. Inspect the bit for wear or damage.
- **Reduced power/speed:** Battery may be low. Recharge the battery.
- **Overheating:** Allow the tool to cool down. Avoid continuous heavy-duty use without breaks.

7. SPECIFICATIONS

AVID POWER 20V Cordless Tire Inflator:

- **Power Source:** 20V Li-ion Battery / 12V DC Adapter
- **Airflow Rate:** 30 LPM (Liters Per Minute)
- **Auto Shut-off:** Yes
- **Inflation Time (195/60 R14 to 36 PSI):** Under 3 minutes
- **Inflation Time (215/60 R16 to 36 PSI):** Under 5 minutes

AVID POWER ACD138 Brushless Power Drill:

- **Motor Type:** Brushless
- **Max Torque:** 355 In-lbs (40 Nm)
- **Speed Settings:**
 - Low: 0-400 RPM
 - High: 0-1400 RPM
- **Clutch Settings:** 25+1
- **Battery:** 2.0Ah Lithium-ion
- **Chuck Type:** All-metal

8. WARRANTY AND SUPPORT

AVID POWER products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, 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 warranty claims. For further assistance, please contact AVID POWER customer service.