

AVID POWER ACAP328-O

AVID POWER Tire Inflator Air Compressor User Manual

Model: ACAP328-O

1. INTRODUCTION

Thank you for choosing the AVID POWER Tire Inflator Air Compressor. This portable device offers versatile inflation and deflation capabilities with three power source options (110V AC, 12V DC, and 20V Battery) and dual powerful motors for efficient operation. This manual provides essential information for safe and effective use, maintenance, and troubleshooting of your new air compressor.

2. SAFETY INSTRUCTIONS

Please read all safety warnings and instructions carefully before operating this product to prevent electric shock, fire, or serious injury.

- Always wear eye protection when operating the inflator.
- Do not leave the inflator unattended while in use.
- Ensure the correct pressure setting for the item being inflated to avoid over-inflation and potential bursting.
- Keep children and bystanders away from the operating area.
- Do not operate the inflator in wet conditions or expose it to rain.
- Allow the unit to cool down after extended use to prevent overheating.
- **Note:** This inflator is NOT compatible with large truck tires.
- **Important:** The 12V DC adapter is not compatible with Tesla Model Y vehicles manufactured after approximately November 2021, as their low voltage battery is 16V Li-ion. Power inverters plugged into the low voltage power socket must support 16V DC input to function with these specific vehicles.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- AVID POWER cordless air compressor (approx. 13.5"L x 8.27"H x 6.1"W)
- 20V Lithium-ion battery
- Battery charger
- 3 Nozzles (for various inflatables)
- High volume hose
- User manual



Image: AVID POWER Tire Inflator Air Compressor with 20V battery, AC adapter, DC adapter, high volume hose, and various nozzles.

4. FEATURES

- **Triple Power Supply:** Operates with 120V/110V AC plug, 12V DC cigarette lighter, or a 20V rechargeable battery, offering maximum flexibility for indoor and outdoor use.

3 Power Supply Modes



**20V Rechargeable
Battery**



120V (110V) AC
Cord Length 3.92ft



12V DC Adapter
Cord length 9.8ft



Image: Visual representation of the three power supply options.

- **High Pressure Mode:** Designed for items requiring high pressure, such as automobile, motorcycle, and bicycle tires, as well as sport balls. Max. 32L/min flow rate.

2 Inflation Modes

- **High Pressure Mode** Max. 32L/min



- **High Volume Mode (Inflation & Deflation)** Max. 420L/min



Image: Demonstrates the high pressure mode for vehicle tires and high volume mode for air mattresses.

- **High Volume Mode:** With a maximum flow rate of 420L/min, this mode is ideal for inflating or deflating air mattresses, floats, and other high-flow inflatables.
- **Fast Inflation with Dual Motors:** Equipped with two solid metal motors for rapid inflation. Can inflate a standard tire from 0 to 36 PSI within 5 minutes.

2 Powerful Motors



Image: Cutaway view highlighting the dual motor design for fast inflation.

- **Auto Shut-Off:** Preset your desired pressure level, and the pump will automatically shut off once that pressure is reached, preventing over-inflation.

Auto Shut-off and Monitoring

- Auto shut-off at the desired pressure
- Show real time pressure



Image: Digital display showing pressure reading and auto shut-off functionality.

- **Built-in LED Lights:** Provides illumination for emergency use or working in dark conditions.

2 LED Lights for Dark Place Working



Image: The inflator's LED lights illuminating a tire in a dark environment.

- **Wide Application:** Suitable for cars (0-80 PSI), motorcycles (0-80 PSI), bicycles (0-120 PSI), other inflatable objects (0-125 PSI), and balls (0-16 PSI).

Wide Application

Cars
0-80 PSI



Motorcycles
0-80 PSI



Bicycles
0-120 PSI



Other inflatable objects
0-125 PSI



Balls
0-16 PSI



Image: Illustrates various items the inflator can be used for, including cars, motorcycles, bicycles, and balls.

Product Overview Video

Your browser does not support the video tag.

Video: An official overview of the AVID POWER Triple Power Tire Inflator, demonstrating its features and various uses.

5. SETUP

5.1 Charging the Battery

1. Connect the battery charger to a standard 110V/120V AC outlet.
2. Insert the 20V Lithium-ion battery into the charger.
3. Allow the battery to charge fully before first use. The indicator light on the charger will change to indicate a full charge.

5.2 Connecting Power Source

Choose one of the three power sources based on your needs:

- **20V Battery:** Slide the charged 20V battery into the battery slot on the inflator until it clicks into place.
- **110V/120V AC:** Plug the AC power cord into the designated AC input port on the inflator, then plug the other end into a standard wall outlet.
- **12V DC:** Plug the 12V DC car adapter into the designated DC input port on the inflator, then insert the cigarette lighter plug into your vehicle's 12V accessory socket.

5.3 Attaching Hoses and Nozzles

- **High Pressure Hose:** For tires and balls, connect the high-pressure hose to the high-pressure output port. Ensure it is securely fastened.
- **High Volume Hose:** For air mattresses and other inflatables, connect the high-volume hose to the high-volume output port for inflation or the high-volume input port for deflation.
- **Nozzles:** Select the appropriate nozzle for the item you are inflating and attach it to the end of the hose.

6. OPERATING INSTRUCTIONS

6.1 High Pressure Mode (Tires, Balls)

1. Connect the high-pressure hose to the item's valve stem.
2. Turn on the inflator. The digital display will show the current pressure.
3. Press the 'UNIT' button to select your desired pressure unit (PSI, BAR, or KPA).
4. Use the '+' and '-' buttons to set the target pressure.
5. Press the 'Start' button (usually indicated by a power symbol or play icon) to begin inflation.
6. The inflator will automatically shut off once the preset pressure is reached.
7. Disconnect the hose from the valve stem.

6.2 High Volume Mode (Inflatables)

1. **Inflation:** Connect the high-volume hose to the high-volume output port and attach the appropriate nozzle to the inflatable item. Turn on the inflator to begin inflation.
2. **Deflation:** Connect the high-volume hose to the high-volume input port and attach the appropriate nozzle to the inflatable item. Turn on the inflator to begin deflation.

6.3 Using the LED Light

Press the light button (usually indicated by a light bulb icon) on the control panel to turn the LED lights on or off. This is useful for working in low-light conditions or during emergencies.

7. MAINTENANCE

- **Cleaning:** Wipe the exterior of the inflator with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the inflator and all accessories in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure all hoses and nozzles are properly stored in their designated compartments on the unit.
- **Battery Care:** If using the 20V battery, ensure it is fully charged before long-term storage and recharge it every 3-6 months to maintain battery health.

8. TROUBLESHOOTING

If you encounter issues with your AVID POWER Tire Inflator, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; Battery not charged; Loose connection.	Ensure power source is properly connected and functional. Charge the battery if using battery power. Check all connections.
Inflator runs but does not inflate.	Hose or nozzle not securely attached; Leak in hose/nozzle; Item valve is faulty.	Check all connections for tightness. Inspect hose and nozzles for damage. Ensure item valve is functioning correctly.
Inaccurate pressure reading.	Digital gauge malfunction; Sensor obstruction.	Ensure the hose is properly connected and there are no kinks. If the issue persists, contact customer support. (Some users reported initial gauge issues, which were resolved by customer service.)
Slow inflation.	Low battery; Incorrect mode selected; Large item being inflated.	Ensure battery is fully charged or use AC/DC power. Verify you are using the correct mode (High Pressure vs. High Volume). For very large items, inflation may naturally take longer.
Unit overheats and shuts off.	Continuous operation for too long.	Allow the unit to cool down for at least 15-20 minutes before resuming operation. Avoid prolonged continuous use.

9. SPECIFICATIONS

Property	Value
Brand	AVID POWER
Model Name	Triple Power Tire Inflator
Part Number	ACAP328
Item Model Number	ACAP328-O
Power Source	Battery Powered (20V Lithium-ion), 110V/120V AC, 12V DC
Voltage	20 Volts
Maximum Power	200 Watts
Maximum Operating Pressure	125 PSI
Air Flow Capacity (High Pressure)	32 LPM
Air Flow Capacity (High Volume)	420 LPM
Noise Level	95 dB
Product Dimensions	16"L x 6.1"W x 8.2"H

Property	Value
Item Weight	6.92 Pounds
Color	Orange
Country of Origin	China



Image: Diagram showing the dimensions of the AVID POWER Tire Inflator.

10. WARRANTY AND SUPPORT

10.1 Warranty Information

AVID POWER products typically come with a standard manufacturer's warranty. For specific details regarding the warranty period and coverage for your ACAP328-O Tire Inflator, please refer to the warranty card included in your product packaging or visit the official AVID POWER website. Keep your purchase receipt as proof of purchase for warranty claims.

10.2 Customer Support

If you have any questions, require technical assistance, or need to report an issue with your AVID POWER Tire Inflator, please contact AVID POWER customer support directly. Contact information can usually be

found on the product packaging, the official AVID POWER website, or within the included user manual.

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