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> Avid Power Tire Inflator Portable Air Compressor User Manual

AVID POWER ACAP008

Avid Power Tire Inflator Portable Air Compressor User Manual

Model: ACAP008 | Brand: AVID POWER

[Introduction](#) [Safety Information](#) [Package Contents](#) [Product](#)
[Overview](#) [Setup](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This user manual provides detailed instructions for the safe and efficient operation of your Avid Power Tire Inflator Portable Air Compressor. Please read this manual thoroughly before first use and retain it for future reference. This compact and powerful air compressor is designed for quick and precise inflation of various items, including car tires, motorcycle tires, bicycle tires, sport balls, and small inflatable pool toys.



Figure 1: Avid Power Tire Inflator Portable Air Compressor, Model ACAP008.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the device:

- Do not leave the inflator unattended during operation.
- Ensure the inflator is connected to a 12V DC power source only.
- Avoid over-inflating items. Always refer to the recommended pressure for the item being inflated.
- Keep the device away from water and flammable liquids.
- Do not operate the inflator if it is damaged or malfunctioning.
- Keep out of reach of children.
- Allow the inflator to cool down after prolonged use to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Avid Power 12V DC Tire Inflator
- 2 x Nozzles (for various inflatables)
- 1 x User Manual (this document)

4. PRODUCT OVERVIEW AND FEATURES

The Avid Power Tire Inflator is engineered for efficiency and durability, incorporating several key features:

- **Fast 30LPM Inflation:** This 12V tire inflator delivers a rapid 30 LPM airflow, capable of inflating a 225/60 R17 tire from 25 to 36 PSI in approximately 2 minutes.

FAST INFLATION WITH MIGHTY MOTOR

Never Being Stranded On The Road



30LPM



METAL CYLINDER

225/60 R17
25-36psi **2** min



Figure 2: Illustration of the rapid inflation capability, showing a 225/60 R17 tire inflating from 25 to 36 PSI in 2 minutes.

- **Precision Auto Shut-Off:** Set your desired pressure using the +/- buttons. The portable tire pump will automatically stop when the target pressure is reached, preventing overinflation.

ACCURATE PRESSURE DETECTION

Knowing The Real-time Pressure of Your Tires



Figure 3: Digital display showing accurate real-time pressure detection.

AUTO SHUT-OFF SYSTEM


Stop Inflating Automatically After Reaching Desired Pressure



Figure 4: The automatic shut-off system ensures inflation stops once the preset pressure is achieved.

- **Durable & Reliable Construction:** Built with sturdy metal components and an induction magnet motor, this 12-volt air compressor offers enhanced power handling and long-lasting performance. A large 30mm cylinder ensures superior airflow.


AVID POWER VS. OTHERS



The image shows a detailed view of the AVID POWER inflator's motor assembly. A large, silver, cylindrical component is highlighted with a red dashed box and labeled "30mm Cylinder". A red tag with "30mm" is attached to the cylinder. The motor is connected to a black plastic housing. Below the image is a red rounded rectangle with the text "AVID POWER".

AVID POWER

- ✓ 30 LPM Faster Than Most of the Inflators
- ✓ Induction Magnet Motor
- ✓ Greater Power Handling Capability
- ✓ Superior Flow Performance
- ✓ Extended Service Life



The image shows a smaller, silver, cylindrical component, likely a competitor's inflator motor. A red dashed box highlights the top section, labeled "19-22mm Cylinders". Below the image is a red rounded rectangle with the text "OTHERS".

OTHERS

- ✗ 17-25 LPM Lower Flow Rate
- ✗ Smaller Motor - Lower Power Output
- ✗ Plastic Gear Pump - Shorter Lifespan

Figure 5: Comparison highlighting the durable 30mm cylinder and induction magnet motor of the Avid Power inflator.

- **Compact and Convenient:** Designed for portability, this car tire inflator is easy to store in your vehicle's trunk. Its 9.8ft (approximately 3 meters) power cord allows it to reach all tires.
- **Built-in LED Light:** An integrated LED light provides illumination, making it easier to operate the inflator in low-light conditions or at night.

COMPACT INFLATOR WITH LED LIGHT

Built-in LED Light Makes You Work in Dark Place with Ease



Figure 6: The compact design and built-in LED light for convenient use in dark environments.

- **Versatile Application:** Compatible with a wide range of items including cars (under 280mm/50 PSI), motorcycles, bicycles, sport balls, and small inflatable pool toys.

WIDE APPLICATION



Figure 7: Examples of items compatible with the Avid Power Tire Inflator, including cars, motorcycles, bicycles, and various inflatables.

5. SETUP

Before operating the tire inflator, ensure your vehicle's engine is running to provide stable power. The inflator is powered by a 12V DC cigarette lighter socket.

1. Locate the 12V DC power outlet (cigarette lighter socket) in your vehicle.
2. Insert the inflator's power plug firmly into the 12V DC outlet.

3. Ensure the inflator is placed on a stable, flat surface near the item to be inflated.

6. OPERATING INSTRUCTIONS

Follow these steps to inflate your tires or other items:

EASY OPERATION

Simple 3 Steps to Start Inflating



1 Connect the chuck to the valve.

2 Choose the unit and set your desired pressure

3 Press the button to "0" to start inflating

Figure 8: Visual guide for the three simple steps to start inflating.

1. **Connect the Chuck:** Screw the air hose chuck onto the valve stem of the tire or inflatable item. Ensure it is securely fastened to prevent air leakage.
2. **Set Desired Pressure:** Turn on the inflator. The digital display will show the current pressure. Use the "+" and "-" buttons to set your desired target pressure (e.g., PSI, BAR, KPA).
3. **Start Inflation:** Press the power button (marked "O" or similar) to begin inflation. The inflator will automatically stop once the preset pressure is reached.
4. **Disconnect:** Once inflation is complete and the inflator has stopped, turn off the device and carefully unscrew the air hose chuck from the valve stem.

Note: For objects with a recommended PSI less than 10 PSI (e.g., some sport balls or small pool toys), it is advisable to manually shut off the inflator when you estimate the pressure is sufficient to avoid over-inflation, as the auto shut-off may be less precise at very low pressures.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Avid Power Tire Inflator:

- **Cleaning:** Wipe the exterior of the inflator with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the inflator in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the power cord and air hose are neatly coiled to prevent damage.
- **Inspection:** Periodically inspect the power cord, air hose, and nozzles for any signs of wear, cracks, or damage. Replace any damaged components immediately.
- **Cool Down:** If the inflator has been used for an extended period, allow it to cool down for at least 10-15 minutes before storing or resuming operation to prevent overheating.

8. TROUBLESHOOTING

If you encounter issues with your Avid Power Tire Inflator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Inflator does not turn on.	No power from 12V DC outlet; loose connection; vehicle engine not running.	Ensure the 12V DC plug is fully inserted. Start vehicle engine. Check vehicle's fuse for the 12V outlet.
Slow inflation or no air output.	Air hose not securely connected; hose or chuck leakage; item being inflated is too large.	Tighten the air hose chuck onto the valve stem. Check hose for damage. Ensure the item is within the inflator's capacity (not suitable for large trucks or motor lorries).
Inflator stops prematurely.	Desired pressure reached (auto shut-off); overheating.	Check the set pressure on the display. If hot, allow the unit to cool down for 10-15 minutes before resuming.
Incompatible with Tesla Model Y (after Nov 2021).	Vehicle's 16V car battery.	This inflator is designed for 12V DC systems and is not compatible with vehicles using a 16V car battery.

9. SPECIFICATIONS

Technical specifications for the Avid Power Tire Inflator (Model ACAP008):

- **Model Name:** 12V DC Tire Inflator

- **Part Number:** ACAP008
- **Voltage:** 12 Volts DC
- **Maximum Power:** 180 Watts
- **Air Flow Capacity:** 30 LPM (Liters Per Minute)
- **Maximum Operating Pressure:** 36 PSI (Pound per Square Inch) - Note: Max pressure for specific applications may vary, e.g., cars under 50 PSI.
- **Noise Level:** 85 dB
- **Hose Length:** 24.8 Inches (approximately 63 cm)
- **Power Cord Length:** 9.8 Feet (approximately 3 meters)
- **Item Weight:** 3.37 pounds (approximately 1.53 kg)
- **Dimensions (Package):** 9.25 x 6.1 x 4.02 inches
- **Special Features:** Automatic Shut-Off, LED Light, Portable, Pressure Detection, Quick Inflation
- **Included Components:** 12V DC Tire Inflator x1, Nozzle x2, User Manual x1

10. WARRANTY & SUPPORT

Warranty Information:

The Avid Power Tire Inflator (Model ACAP008) comes with a **2-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, accidents, unauthorized repairs, or normal wear and tear.

Customer Support:

For technical assistance, warranty claims, or general inquiries, please contact Avid Power customer support. You can find more information and contact details by visiting the official Avid Power store on Amazon or their official website.

Avid Power Official Store:

[Visit the Avid Power Store on Amazon](#)

Please have your model number (ACAP008) and purchase date ready when contacting support.