

VIAIR 40143

VIAIR 400P EF Enhanced Flow Portable Offroad Air Compressor

Model: 40143

INTRODUCTION

The VIAIR 400P EF is a 12-volt portable air compressor engineered for inflating off-road tires on trucks, SUVs, and other off-road vehicles. This model incorporates an enhanced head design for improved heat dissipation and reduced operational noise, delivering higher performance and faster tire inflation rates. Its compact dimensions and robust construction ensure reliability and portability for various off-road conditions.



Image: The VIAIR 400P EF Portable Air Compressor, highlighting its enhanced flow capabilities.

SAFETY INFORMATION

- Always operate the compressor in a well-ventilated area.
- Ensure the vehicle engine is running during operation to prevent battery drain.
- Do not touch the compressor or fittings during or immediately after use, as they may become hot.
- Keep children and pets away from the compressor during operation.
- Wear appropriate eye protection when operating the compressor.
- Never exceed the maximum recommended tire pressure.
- Disconnect power when the compressor is not in use or during maintenance.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- VIAIR 400P EF Portable Tire Inflator (12V)
- 25 ft. 5-in-1 Inflator/Deflator Coil Hose with Inline 100 PSI Gauge
- 8 ft. Power Cord with Alligator Clips and 2-Pin SAE Connector
- Durable Dual-Compartment Carry Bag
- Three Inflation Tips (for various inflatables)

What's in the box

- EF Compressor
- SAE Battery Clamps
- 25 ft Coiled Air Hose with Inline Gauge
- Carry Bag
- Inflation Tips



Image: All components included in the VIAIR 400P EF package, neatly organized in the carry bag.

SETUP

1. **Position the Compressor:** Place the compressor on a stable, flat surface near the tire to be inflated. Ensure it is not in direct sunlight or on a hot surface.
2. **Connect to Power:** Open your vehicle's hood. Connect the red alligator clip to the positive (+) battery terminal and the black alligator clip to the negative (-) battery terminal. Ensure connections are secure.
3. **Start Vehicle Engine:** Start your vehicle's engine. This provides optimal power to the compressor and prevents battery drain.
4. **Connect Air Hose:** Attach the air hose to the compressor's air outlet. Then, securely screw the air chuck onto the tire's valve stem.

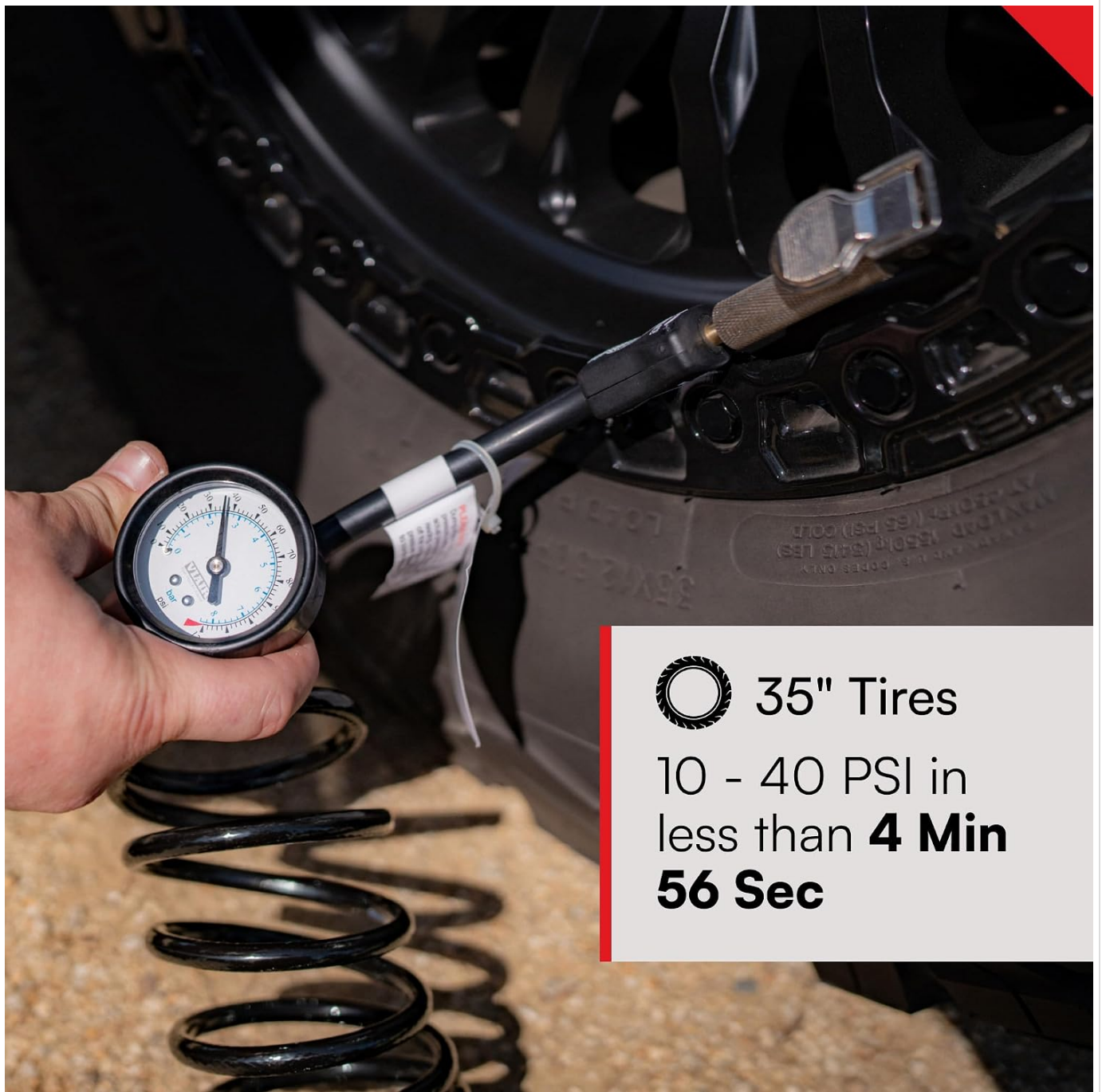
Essential for any Off-Road Adventure

Jeeps
SUVs
Trucks
Overland
4x4

Image: A user connecting the air hose to a vehicle tire, demonstrating the setup process.

OPERATING INSTRUCTIONS

1. **Activate Compressor:** Locate the On/Off switch on the compressor and turn it to the 'On' position. The compressor will begin to operate.
2. **Monitor Pressure:** Continuously monitor the inline pressure gauge on the air hose. Inflate the tire to the manufacturer's recommended PSI.
3. **Stop Inflation:** Once the desired pressure is reached, turn the compressor off.
4. **Disconnect:** Unscrew the air chuck from the tire valve stem. Disconnect the alligator clips from the vehicle battery terminals (negative first, then positive).
5. **Deflation (Optional):** The 5-in-1 inflator/deflator coil hose allows for quick deflation. Refer to the hose's specific instructions for deflation procedures if needed.



 **35" Tires**
10 - 40 PSI in
less than **4 Min**
56 Sec

Image: A hand holding the inline pressure gauge while inflating a tire, showing the monitoring process.

MAINTENANCE

- **Cleaning:** After each use, wipe down the compressor and hose with a damp cloth to remove dirt and debris. Ensure the unit is dry before storage.
- **Air Filter:** Periodically check the air filter for cleanliness. Clean or replace if necessary to maintain optimal performance.
- **Storage:** Store the compressor and accessories in the provided carry bag in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Cable Inspection:** Regularly inspect the power cord and air hose for any signs of wear, cuts, or damage. Replace damaged components immediately.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Compressor does not turn on.	Loose power connection, vehicle engine off, blown fuse.	Ensure alligator clips are securely connected to battery terminals. Start vehicle engine. Check and replace the inline 40-Amp fuse if blown.
Slow inflation or low pressure.	Air leak in hose/connections, clogged air filter, compressor overheating.	Check all connections for tightness. Inspect hose for damage. Clean or replace air filter. Allow compressor to cool down if it has been running for an extended period.
Compressor runs but no air comes out.	Hose not connected, valve stem issue.	Ensure air hose is properly connected to both compressor and tire valve stem. Check tire valve stem for obstructions or damage.

SPECIFICATIONS

Feature	Detail
Model Number	40143
Voltage	12V DC
Maximum Pressure	150 PSI
Air Flow Capacity	2.59 CFM
Maximum Current	30 A
Maximum Power	414 Watts
Hose Length	25 feet
Item Weight	10.4 pounds
Dimensions (L x W x H)	10.9" x 5.8" x 7.4"
Recommended Use	Tire Inflation

WARRANTY INFORMATION

The VIAIR 400P EF Portable Offroad Air Compressor is covered by a **1-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for any warranty claims. For detailed warranty terms and conditions, refer to the official VIAIR website or contact customer support.

SUPPORT

For further assistance, product registration, or to explore additional VIAIR products and accessories, please visit the official VIAIR store:

[Visit the VIAIR Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question