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› Vixen Horns VXC8301 200 PSI Heavy Duty Onboard Air Compressor Instruction Manual

Vixen Horns VXC8301

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Model: VXC8301

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vixen Horns VXC8301 200 PSI Heavy Duty Onboard Air Compressor. Please read this manual thoroughly before use to ensure proper function and safety.

2. SAFETY INFORMATION

- Always wear eye protection when working with compressed air.
- Ensure the vehicle's battery is disconnected before performing any electrical work.
- Do not touch the compressor or fittings with bare hands during or immediately after use, as they can become extremely hot.
- Allow the compressor to cool off for approximately 30 minutes before resuming use if the thermal overload protector activates.
- Ensure all connections are secure and leak-free before operating.
- This compressor is designed for 12-volt DC systems only.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Vixen Horns VXC8301 Air Compressor
- 1/4" NPT Stainless Steel Braided Leader Hose with In-line Check Valve
- Intake Filter Assembly (washable foam filter)
- Insulated Wiring with Connectors
- In-line Fuse Holder with Fuse
- Mounting Plates with Vibration Isolators
- Mounting Hardware (bolts, washers, nuts)

4. SPECIFICATIONS

Feature	Specification
Model	VXC8301
Voltage	12 Volts DC
Maximum Working Pressure	200 PSI
Duty Cycle	100% @ 100 PSI
Amperage Draw	23 Amps
Air Flow Capacity	1.7 CFM @ 0 PSI
Noise Level	73 Decibels
Motor Horsepower	0.2 HP
Product Dimensions	10"L x 12"W x 9"H
Item Weight	9.26 Pounds
Hose Length	3.5 Meters
Material	Stainless Steel
Recommended Uses	Tire Inflation, Air Suspension, Air Tools

Dimensions



Image: Vixen Horns VXC8301 Air Compressor with labeled dimensions: 10-3/4" Length, 4" Width, 6-3/4" Height.

5. SETUP AND INSTALLATION

5.1 Mounting the Compressor

Select a secure, dry location for mounting the compressor, away from direct heat and moisture. Use the provided mounting plates with vibration isolators and hardware to secure the compressor to a stable surface in your vehicle.

DIMENSIONS

200 PSI FAST-FILL COMPRESSOR



Image: The Vixen Horns VXC8301 air compressor shown with its mounting brackets and braided hose connection.

5.2 Electrical Wiring

Connect the compressor to a 12-volt power source. Ensure the in-line fuse holder with the appropriate fuse (23 Amps) is installed on the positive (+) wire to protect the circuit. Connect the negative (-) wire to a good chassis ground.



Image: A red insulated wire with an in-line fuse holder, designed to protect the compressor's electrical circuit.



Image: A set of four bolts, washers, and nuts, representing the mounting hardware included with the compressor.

5.3 Air Line Connection

Connect the 1/4" NPT stainless steel braided leader hose to the compressor's outlet. The leader hose includes an in-line check valve, which prevents air from flowing back into the compressor from the air tank. Connect the other end of the leader hose to your air tank or air system.

5.4 Intake Filter Assembly

Install the detachable intake filter assembly. For optimal performance and longevity, consider remote-mounting the intake filter to a location less exposed to dust and moisture than where the compressor is installed. This improves air quality and extends the compressor's lifespan.



Image: The detachable intake filter assembly, consisting of a housing, a washable foam filter element, and a sealing ring.

6. OPERATING INSTRUCTIONS

The VXC8301 compressor is designed for high-pressure onboard air systems, suitable for applications such as train horns, air suspension, tire inflation, and air tools. It is designed to work with air tanks up to 5 gallons.

6.1 Powering On/Off

Once properly installed and wired, the compressor will activate when power is supplied to its circuit, typically controlled by a pressure switch connected to your air tank. It will automatically turn off once the desired pressure (up to 200 PSI) is reached in the air tank.

6.2 Thermal Overload Protection

The compressor is equipped with a thermal overload protector. If the unit overheats due to prolonged use or high ambient temperatures, this protector will automatically shut off the compressor to prevent damage. Allow the compressor to cool down for approximately 30 minutes before it can be restarted.

6.3 Video Overview

Watch this video for a visual overview of the Vixen Horns 200 PSI Heavy Duty Air Compressor and its features.

Your browser does not support the video tag.

Video: A short product overview of the Vixen Horns 200 PSI Heavy Duty Air Compressor, highlighting its features and components.

7. MAINTENANCE

7.1 Intake Filter Cleaning

Periodically inspect and clean the foam filter element in the intake filter assembly. A dirty filter can reduce compressor efficiency and lifespan. To clean, remove the foam element, wash it with mild soap and water, rinse thoroughly, and allow it to dry completely before reinstallation.

7.2 Lubrication

The pump's cylinder is permanently lubricated and requires no future lubrication. Do not attempt to lubricate internal components.

7.3 General Inspection

Regularly check all air line connections and electrical wiring for wear, damage, or leaks. Ensure mounting hardware remains tight.

8. TROUBLESHOOTING

- **Compressor does not turn on:** Check electrical connections, fuse, and ensure the vehicle's 12V power supply is active. Verify the pressure switch (if used) is functioning correctly.
- **Compressor runs but does not build pressure:** Check for air leaks in the system (hoses, fittings, tank). Ensure the in-line check valve is installed correctly and functioning.
- **Compressor overheats and shuts off:** This is normal operation for the thermal overload protector. Allow the unit to cool down for 30 minutes. Ensure adequate ventilation around the compressor.
- **Compressor is excessively noisy:** Check mounting hardware for tightness. Ensure vibration isolators are properly installed.

9. WARRANTY INFORMATION

This Vixen Horns VXC8301 air compressor carries a 90-day service warranty that includes parts and labor. Please retain your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please contact Vixen Horns customer service or visit the official Vixen Horns store online. You can find more information and contact details at the [Vixen Horns Store](#).

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