

RETRUE RACS001-P

RETRUE RACS001-P Onboard Air Compressor System Instruction Manual

For Truck Airbag Suspension with Wireless Remote

1. PRODUCT OVERVIEW

The RETRUE RACS001-P Onboard Air Compressor System is designed to provide convenient and reliable air pressure management for truck airbag suspension systems. It features dual control options, including an in-cab control panel and a wireless remote, allowing for flexible adjustment of air pressure. The system also incorporates a low-pressure sensor for automatic pressure maintenance and offers fast inflation capabilities.

2. COMPONENTS LIST

Before installation, verify that all components listed below are present in your kit. If any parts are missing or damaged, please contact customer support.



Figure 2.1: All components included in the RETRUE RACS001-P kit.

Component	Description	Quantity
Compressor	Main air compression unit	1
Control Panel	In-cab pressure gauge and switch	1
Smart Switch Receiver	Receives signals from remote control	1
Remote Control	Wireless control for air pressure adjustment	1
Pressure Sensor	Monitors airbag pressure	1
1/4" Air Line	Air tubing for connections	Length as specified
Wiring Harness	Electrical connections	1 set

Component	Description	Quantity
T-fitting	Air line connector	As needed
Mounting Hardware	Screws, brackets, etc.	As needed

3. SETUP AND INSTALLATION

This section provides a general overview of the installation process. For detailed, step-by-step instructions, refer to the comprehensive installation manual included with your kit.

3.1. Mounting the Compressor and Control Panel

Select a suitable location for the compressor, ensuring it is protected from excessive mud, water, and dust. The control panel should be mounted within the vehicle cabin for easy access.



Figure 3.1: Compressor unit placement on a vehicle chassis, designed for protection.

3.2. Air Line and Electrical Connections

Connect the air lines from the compressor to your airbag suspension system using the provided T-fittings. Ensure all connections are secure and leak-free. Follow the wiring diagram for electrical connections, including the smart switch receiver, pressure sensor, and power source.



Figure 3.2: Wiring and air line connection diagram for the system.

Important: Ensure all electrical connections are properly insulated and fused to prevent damage.

4. OPERATING INSTRUCTIONS

4.1. Dual Control Options

The system offers two methods for controlling your airbag pressure:

- In-Cab Control:** Use the control panel mounted inside your vehicle for quick adjustments while driving.
- Wireless Remote Control:** Utilize the remote to adjust and monitor air pressure from outside the vehicle, providing enhanced flexibility.



Figure 4.1: In-cab and wireless remote control options.

4.2. Low Pressure Sensor Functionality

The integrated low-pressure sensor continuously monitors the airbag pressure. If the pressure drops below a preset value, the system will automatically activate the compressor to inflate the airbags, maintaining optimal performance and safety.

- Default Setting:** 10 PSI
- Customizable Range:** 5 - 25 PSI

Figure 4.2: The low pressure sensor for automatic pressure maintenance.

4.3. Inflation Performance

The compressor is capable of reaching up to 100 PSI, providing rapid inflation for your airbag suspension kit.

- 0 to 50 PSI: Approximately 80 seconds
- 0 to 70 PSI: Approximately 2 minutes 10 seconds
- Full Inflation (up to 100 PSI): Approximately 3 minutes 50 seconds

Figure 4.3: Typical inflation times for the airbag system.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your RETRUE Onboard Air Compressor System.

- **Inspect Air Lines:** Periodically check all air lines and connections for signs of wear, cracks, or leaks. Replace any damaged components immediately.
- **Clean Compressor:** Keep the compressor unit free from excessive dirt and debris. Ensure ventilation openings are clear.
- **Electrical Connections:** Verify that all electrical connections remain secure and free from corrosion.
- **Pressure Sensor:** Ensure the pressure sensor is clean and functioning correctly.

6. TROUBLESHOOTING

If you encounter issues with your air compressor system, refer to the following common troubleshooting steps:

- **Compressor Not Activating:**
 - Check power supply and fuse.
 - Ensure all electrical connections are secure.
 - Verify the control panel or remote is powered on and functioning.
- **Air Leaks:**
 - Inspect all air line connections, especially T-fittings, for proper sealing.
 - Use a soapy water solution to identify leaks at connections or along the air lines.
- **Inaccurate Pressure Readings:**
 - Check the pressure sensor for any obstructions or damage.
 - Ensure the control panel gauge is properly connected.

If problems persist after attempting these steps, please contact RETRUE customer support.

7. SPECIFICATIONS

Key technical specifications for the RETRUE RACS001-P Onboard Air Compressor System:

Specification	Value
Brand	RETRUE
Model Number	RACS001-P
Voltage	12 Volts
Max. Working Pressure	100 PSI (up to 120 PSI capability)
Noise Level	68 Decibels
Item Weight	2.35 Kilograms
Additional Features	Wireless Remote, Low Pressure Sensor, Quick Inflation



Figure 7.1: Dimensions of the compressor and control panel.

8. WARRANTY AND SUPPORT

8.1. Manufacturer Warranty

The RETRUE RACS001-P Onboard Air Compressor System comes with a**6-month manufacturer warranty**. This warranty covers defects in materials and workmanship under normal use.

8.2. Customer Support

RETRUE is committed to providing dedicated customer support. If you have any questions regarding installation, operation, troubleshooting, or warranty claims, please do not hesitate to contact our support team. We are available to assist you promptly.

For assistance, please refer to the contact information provided with your product packaging or visit the official RETRUE website.

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

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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