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› [SCITOO](#) /

› SCITOO AC Compressor User Manual for Jeep Commander and Dodge Durango (Models CO 4335C)

SCITOO CO 4335C

SCITOO AC Compressor User Manual

Model: **CO 4335C** | Brand: **SCITOO**

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your SCITOO AC Compressor, model CO 4335C. Please read this manual thoroughly before proceeding with any procedures to ensure safe and efficient use.

Package Contents:

- SCITOO AC Compressor with Clutch
- Installation Instructions Manual
- O-rings (if included)

The compressor is pre-filled with PAG46 oil (approximately 130ml) for initial use. Do not add additional oil during initial installation unless specified by your vehicle's service manual, as excessive oil can cause damage.

2. PRODUCT FEATURES

- **High-Quality Construction:** Engineered from premium materials for exceptional service life and reliability. Features an aluminum housing for durability and corrosion resistance.
- **Efficient Performance:** Designed for powerful cooling, smooth operation, and reduced noise levels (under 72 dB).
- **Precision Fitment:** Features a durable 6-groove pulley suitable for serpentine belts and precision-machined mounting points for exact fitment with original vehicle specifications.
- **Pre-filled Lubricant:** Comes pre-filled with PAG46 oil (130ml) for convenience and proper lubrication upon installation.
- **OEM Standards:** Meets or exceeds OEM performance requirements.



Figure 2.1: SCITOO AC Compressor, highlighting the 6-groove pulley and overall robust design.

Elevate Your Experience to the Next Level

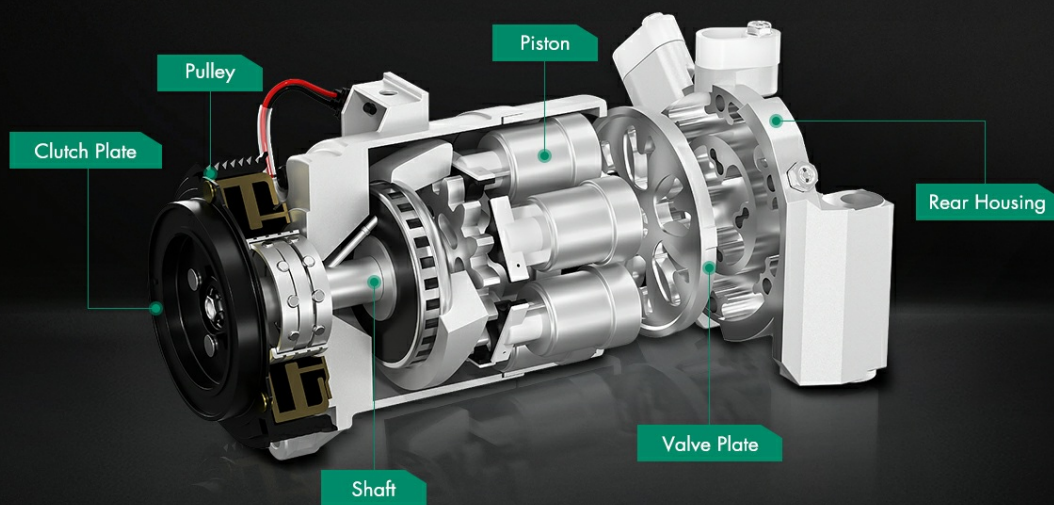


Figure 2.2: Internal components of the AC compressor, including the pulley, clutch plate, piston, and valve plate, illustrating its robust construction.

3. VEHICLE FITMENT

This SCITOO AC Compressor (Model CO 4335C) is compatible with the following vehicle models. Please verify your vehicle's year, make, model, and engine size before installation.

Compatible Vehicle Models

Year	Make	Model	Engine
2007	Chrysler	Aspen	4.7L
2004-2007	Dodge	Durango	3.7L
2004-2007	Dodge	Durango	4.7L
2006-2007	Jeep	Commander	3.7L
2006-2007	Jeep	Commander	4.7L
2005-2007	Jeep	Grand Cherokee	3.7L
2005-2007	Jeep	Grand Cherokee	4.7L



Figure 3.1: Detailed compatibility chart for Dodge and Jeep vehicles.

4. SETUP AND INSTALLATION

Installation of an AC compressor requires specialized tools and knowledge. It is highly recommended that installation be performed by a qualified mechanic. Refer to your vehicle's specific service manual for detailed, step-by-step instructions.

Important Installation Considerations:

- **System Cleaning:** Before replacing the compressor, thoroughly clean the entire AC system, including pipes, condenser, and evaporator. Failure to do so may lead to premature compressor failure.
- **Oil Content:** The new compressor is pre-filled with the correct amount of PAG46 oil (130ml). Do not add additional oil unless specifically instructed by your vehicle's service manual, as overfilling can cause damage.
- **Refrigerant:** Ensure the correct type and amount of refrigerant (R134a) is used according to your vehicle's specifications.
- **Vacuum Test:** Perform a vacuum test on the system to ensure there are no leaks before charging with refrigerant.

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Video 4.1: An animation demonstrating the internal workings of an AC compressor and its role in the vehicle's cooling system. This video provides a visual overview of how the compressor converts power into energy to circulate refrigerant and push cool air into the vehicle cabin.

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Video 4.2: An animation illustrating the components and function of an A-Premium AC compressor, showing how it pumps refrigerant and cools the car's interior. This video emphasizes the quality and performance aspects of the compressor.

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Video 4.3: An animation detailing the features and unboxing of an A-Premium Air Conditioning Compressor. It highlights the pulley and clutch, leak-free design, pre-filled lubricant, and precision machining for easy installation.

5. OPERATING INSTRUCTIONS

Once properly installed and charged with refrigerant, the AC compressor operates automatically as part of your vehicle's air conditioning system. To operate the system:

1. Start your vehicle's engine.
2. Turn on the air conditioning system using your vehicle's climate control panel.
3. Select your desired temperature and fan speed. The compressor will engage to circulate refrigerant and provide cooling.

For optimal performance, ensure your vehicle's engine is running at a stable RPM when operating the AC system, especially during initial startup.

6. MAINTENANCE

Regular maintenance of your vehicle's AC system is crucial for the longevity and efficiency of the compressor. While the SCITOO AC Compressor is designed for durability, periodic checks are recommended.

- **Refrigerant Level Check:** Have your refrigerant level checked annually by a qualified technician. Low refrigerant can cause the compressor to overwork and fail.
- **Belt Inspection:** Regularly inspect the serpentine belt that drives the compressor for wear, cracks, or proper tension. A worn or loose belt can affect compressor performance.
- **System Leaks:** Address any signs of refrigerant leaks promptly. Leaks can lead to system damage.
- **Oil Type:** The compressor uses PAG46 oil. If the system requires additional oil during service, ensure the correct type and viscosity are used.

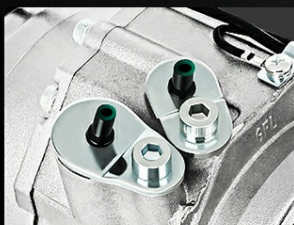
7. TROUBLESHOOTING

If you experience issues with your vehicle's air conditioning system, consider the following common problems and their potential causes. For complex issues, consult a professional mechanic.

Common Symptoms of AC Compressor Issues:

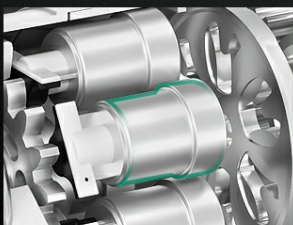
- **No Cold Air:** The most common sign of a failing compressor or low refrigerant.
- **Loud Noises:** Grinding, squealing, or rattling sounds when the AC is on may indicate internal compressor damage or a failing clutch.
- **AC Clutch Not Engaging:** If the clutch does not spin when the AC is turned on, it could be an electrical issue, a faulty clutch, or a seized compressor.
- **Leaking Refrigerant:** Visible leaks around the compressor or other AC components.
- **Reduced Airflow:** Can be caused by various issues, including a struggling compressor.

Top-Grade Components



Oil Fill-Up Plug

Oil fill-up plug for better inner oil return.



Hard-Wearing Pistons

Ensure smooth and quite operation.



Firm Mounting Hole

Make compressor stable and firm.



Durable Pulley

Provide ultimate reliability performance.

Tip: The images are for illustration purpose only and may different from the actual product.

Figure 7.1: Visual indicators and symptoms that suggest an AC compressor may need replacement, such as lack of cooling, oil leakage, or unusual noises.

8. SPECIFICATIONS

SCITOO AC Compressor (CO 4335C) Specifications

Feature	Detail
Brand	SCITOO
Model Number	104149-5206-1658331 (CO 4335C)
Compressor Type	10S20E
Oil Type	PAG46
Oil Prefilled Content	130ml (Internal)
Pulley Grooves Quantity	6
Pulley Diameter	120 mm
Voltage	12 Volts (DC)
Noise Level	72 Decibels (Max)
Material	Metal (Aluminum Alloy)
Item Weight	14.28 pounds (6.49 Kilograms)
Product Dimensions	10.24 x 9.06 x 7.48 inches
OEM Part Number	CO 10801C, DW67357

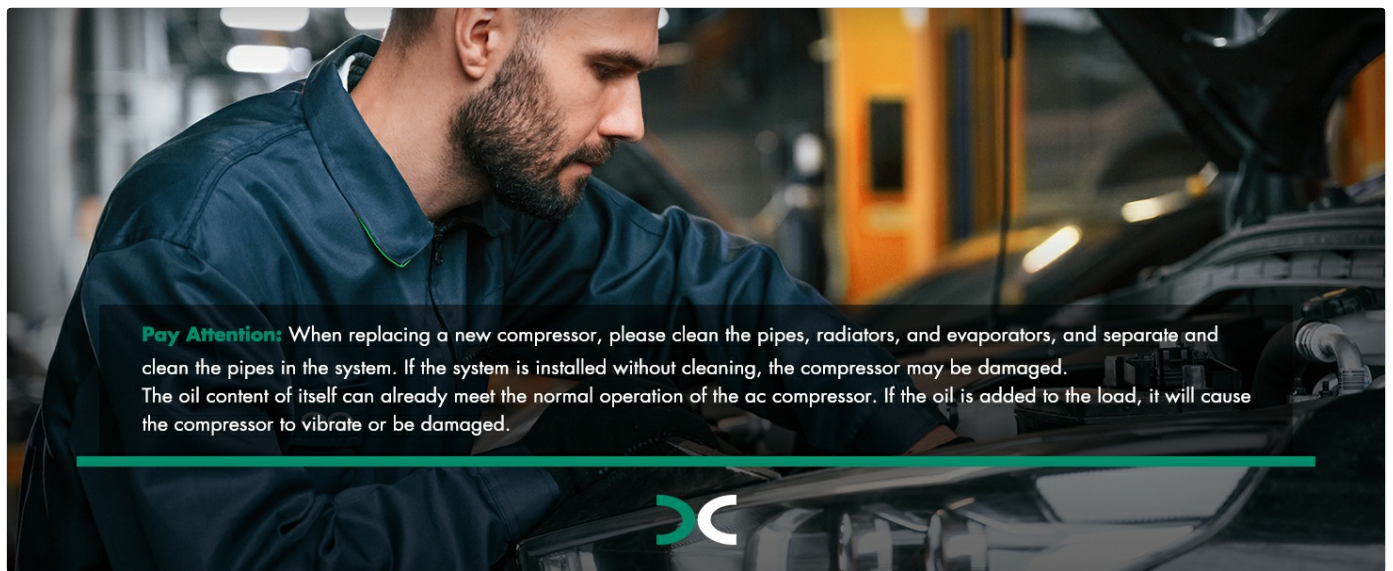


Figure 8.1: Key specifications and dimensions of the SCITOO AC Compressor.

9. WARRANTY AND SUPPORT

SCITOO provides a **12-month manufacturer's warranty** for this AC compressor. For warranty claims, technical support, or any inquiries, please contact SCITOO customer service through your purchase platform or the official SCITOO website.

Always retain your proof of purchase for warranty purposes.

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This manual is for informational purposes only. Always consult a qualified professional for vehicle repairs.

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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