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› GOWE 10S15C AC Compressor for Freightliner Cascadia 15.0L - Instruction Manual

GOWE AP-CS867

GOWE 10S15C AC Compressor for Freightliner Cascadia 15.0L - Instruction Manual

Model: AP-CS867

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your GOWE 10S15C AC Compressor, Model AP-CS867. Designed for specific Freightliner Cascadia 15.0L applications, this compressor is a critical component of your vehicle's air conditioning system. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of the product.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product and vehicle:

- Ensure the vehicle's electrical system is disconnected before beginning any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- AC systems contain pressurized refrigerant. Only qualified personnel should handle refrigerant and perform system evacuation/recharging.
- Refer to the vehicle manufacturer's service manual for specific procedures related to AC compressor replacement.
- Do not attempt to repair a damaged compressor. Replace it with a new unit.

3. PRODUCT OVERVIEW



Figure 3.1: GOWE 10S15C AC Compressor. This image displays the GOWE 10S15C AC Compressor, featuring its main body, multi-groove pulley, and electrical connector. The unit is designed for automotive air conditioning systems.

3.1 Key Features

- **Model:** AP-CS867
- **Compressor Type:** Denso 10S15C
- **Voltage:** 12 V
- **Pulley Grooves:** 8pk
- **Application:** Specifically designed for Freightliner Cascadia Base 15.0L (15000CC 915Cu. In. I6 DIESEL Turbocharged) models from 2010-2012.

3.2 Included Components

The package typically includes:

- GOWE 10S15C AC Compressor (Model AP-CS867)
- O-Ring #1 (Part No. 16-4303)
- O-Ring #2 (Part No. 16-4305)

4. SETUP AND INSTALLATION

Installation of an AC compressor requires specialized tools and knowledge of automotive AC systems. It is highly recommended that installation be performed by a certified automotive technician.

4.1 Pre-Installation Checks

1. Verify that the new compressor (AP-CS867) matches the specifications and application for your Freightliner Cascadia 15.0L.
2. Inspect the new compressor for any shipping damage.
3. Ensure the correct type and amount of PAG oil is present in the new compressor, or add/drain as necessary according to vehicle specifications.

4. Replace the receiver/drier or accumulator and expansion valve/orifice tube as part of a complete AC system service.
5. Flush the entire AC system to remove contaminants from the old compressor failure.

4.2 Installation Steps (General Guidelines)

1. Safely discharge the refrigerant from the AC system using proper recovery equipment.
2. Disconnect the battery.
3. Remove the old compressor, noting the routing of belts and electrical connections.
4. Install the new GOWE AP-CS867 compressor, ensuring all mounting bolts are torqued to manufacturer specifications.
5. Connect the electrical harness and refrigerant lines, using the provided new O-rings (16-4303, 16-4305) and lubricating them with clean PAG oil.
6. Reinstall the drive belt and adjust tension as required.
7. Evacuate the AC system using a vacuum pump to remove air and moisture.
8. Recharge the system with the correct type and amount of refrigerant according to vehicle specifications.
9. Reconnect the battery and test the AC system for proper operation and leaks.

5. OPERATING INSTRUCTIONS

Once installed and the AC system is properly charged, the GOWE AC compressor operates automatically as part of your vehicle's climate control system. No direct user operation is required for the compressor itself.

- Turn on your vehicle's air conditioning system via the dashboard controls.
- Select the desired temperature and fan speed.
- The compressor will engage and disengage as needed to maintain the set temperature.

6. MAINTENANCE

Regular maintenance of your vehicle's AC system is crucial for the longevity and efficiency of the GOWE AC compressor.

- **Annual AC System Check:** Have your AC system inspected annually by a qualified technician. This includes checking refrigerant levels, system pressure, and overall performance.
- **Belt Inspection:** Periodically check the compressor drive belt for wear, cracks, or proper tension. Replace if necessary.
- **Leak Detection:** Address any refrigerant leaks promptly. Even small leaks can lead to compressor damage due to insufficient lubrication.
- **Condenser Cleaning:** Keep the condenser (located in front of the radiator) free of debris to ensure efficient heat exchange.

7. TROUBLESHOOTING

If you experience issues with your AC system, consider the following common problems and potential solutions. For complex issues, consult a professional technician.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
AC not blowing cold air	Low refrigerant level, faulty compressor clutch, electrical issue, clogged expansion valve.	Check for leaks and recharge system. Inspect clutch and electrical connections. Consult technician.
Compressor making unusual noises	Low oil, internal compressor damage, worn clutch bearing, loose mounting.	Check oil level. Inspect for loose components. If internal damage, compressor replacement may be necessary.
Compressor clutch not engaging	Electrical fault, low refrigerant pressure (safety switch), faulty clutch coil.	Check fuses and wiring. Verify refrigerant pressure. Test clutch coil.

8. SPECIFICATIONS

Attribute	Detail
Brand	GOWE
Model Number	AP-CS867 (GWE-1019610)
Compressor Type	Denso 10S15C
Voltage	12 Volts
Pulley Grooves	8pk
Application	Freightliner Cascadia Base 15.0L (15000CC 915Cu. In. I6 DIESEL Turbocharged) 2010-2012
OEM Part Numbers	22-65771-000, 447280-1501, 247300-7610, 20-22496-AM, 20-22496, 503-1261, 7512852, 2022496AM, 2265771000, 4472801501, 2473007610, 22 65771 000, 447280 1501, 247300 7610, 20 22496 AM, 20 22496, 503 1261
O-Ring #1	16-4303
O-Ring #2	16-4305
UPC	827674857842
ASIN	B01DHNIAV2
Date First Available	March 27, 2016
Manufacturer	Gowegroup

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact GOWE directly or refer to the seller's policies where the product was purchased.

You can visit the official GOWE store on Amazon for more products and support information:[GOWE Store](#)

