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Denso 471-7026

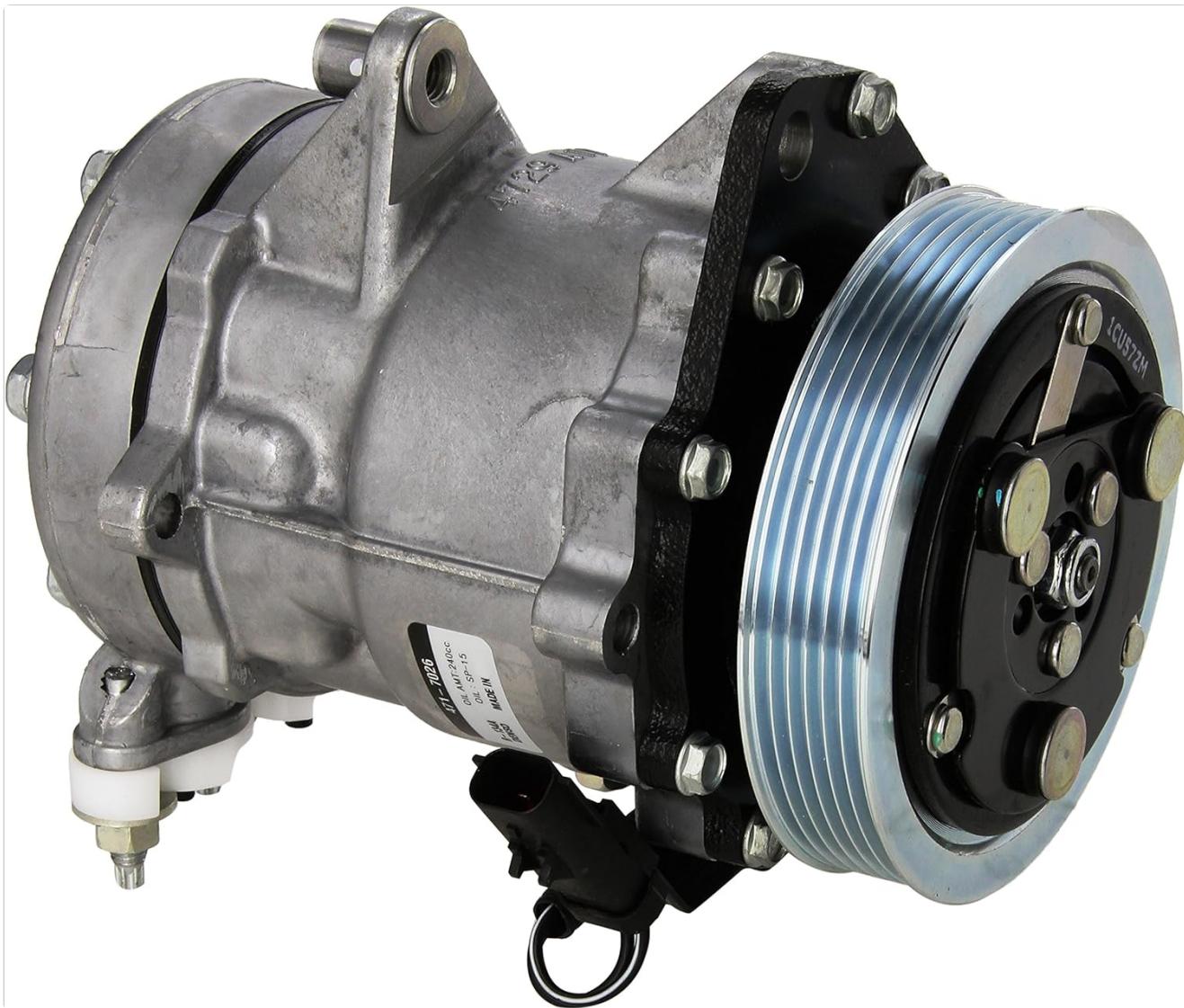
Denso NEW COMPRESSOR W/CLUTCH - 471-7026 Instruction Manual

Model: 471-7026 | Brand: Denso



PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your Denso NEW COMPRESSOR W/CLUTCH, model 471-7026. This component is designed as an OE replacement for your vehicle's air conditioning system, ensuring reliable performance and durability. Manufactured to premium ISO/TS 16949 quality standards, this compressor includes the body, clutch, pulley, and coil, meeting exact specifications for your vehicle.



A detailed view of the Denso NEW COMPRESSOR W/CLUTCH, model 471-7026, showcasing its robust construction and integrated clutch assembly.

IMPORTANT SAFETY INFORMATION

Always prioritize safety when working with automotive components. Failure to follow these guidelines can result in serious injury or damage to the vehicle.

- Disconnect the vehicle's battery before beginning any work on the AC system.
- Wear appropriate personal protective equipment, including safety glasses and gloves, to protect against refrigerant exposure and mechanical hazards.
- Automotive air conditioning systems contain refrigerants under high pressure. Improper handling can cause serious injury, including frostbite or chemical burns. It is highly recommended that installation and service be performed by a qualified professional with proper training and equipment.
- Refer to your vehicle's specific service manual for detailed procedures, torque specifications, and safety warnings pertinent to your make and model.

PACKAGE CONTENTS

Your Denso NEW COMPRESSOR W/CLUTCH - 471-7026 package includes:

- NEW COMPRESSOR W/ CLUTCH (complete assembly including compressor body, clutch, pulley, and coil)

PRODUCT SPECIFICATIONS

Brand	Denso
Model Number	471-7026
Included Components	NEW COMPRESSOR W/ CLUTCH
Item Weight	16.7 Pounds (approx. 8.323 kilograms)
Voltage	12 Volts
Material	Aluminum
Color	Silver
Fit Type	Vehicle Specific
Manufacturer Part Number	471-7026
UPC	042511108387
Global Trade Identification Number	00042511108387

INSTALLATION GUIDE

Installing an AC compressor requires specialized tools, knowledge of automotive AC systems, and proper handling of refrigerants. It is **strongly recommended** to have this procedure performed by a certified automotive technician to ensure correct installation, system integrity, and personal safety. Refer to your vehicle's specific service manual for precise, step-by-step instructions and torque specifications.

General Installation Steps (Consult your vehicle's service manual for specific instructions):

- System Discharge:** Safely discharge the refrigerant from the AC system using appropriate recovery equipment. This step is critical and must be performed by a qualified technician.
- Component Removal:** Disconnect electrical connectors, refrigerant lines, and mounting bolts from the old compressor. Carefully remove the old compressor from its mounting location.
- System Flush:** Flush the entire AC system (condenser, evaporator, and lines) to remove old oil, debris, and contaminants. This is crucial for preventing premature failure of the new compressor.
- New Component Installation:** Install the new Denso compressor, ensuring all mounting points align correctly. Connect refrigerant lines with new O-rings (lubricated with appropriate PAG oil) and secure all electrical connectors.
- Vacuum and Recharge:** Evacuate the system to remove air and moisture, then recharge with the correct type and amount of refrigerant and PAG oil as specified by your vehicle manufacturer.
- Leak Test:** Perform a leak test to ensure all connections are sealed and the system is airtight.
- Performance Check:** Start the engine and test the AC system for proper operation, cooling performance, and absence of unusual noises.

This video provides a general overview of how an A/C compressor functions within a vehicle's air conditioning system and highlights key features of A-Premium compressors. While not specific to the Denso 471-7026 model, it illustrates the operational principles and quality aspects relevant to automotive AC compressors.

A brief product overview video showcasing the UAC CO 29002C A/C Compressor, which shares similar characteristics and installation considerations with the Denso 471-7026. This video demonstrates the physical appearance and components of a typical replacement AC compressor.

This video from ECCPP Auto Parts provides a visual overview of an AC compressor, highlighting its features and fitment for various Chrysler and Dodge models. It also includes important pre-installation notes regarding system cleaning and oil content, which are applicable to the Denso 471-7026 compressor.

OPERATING PRINCIPLES

The Denso NEW COMPRESSOR W/CLUTCH - 471-7026 is a critical component of your vehicle's air conditioning system. It functions by compressing low-pressure refrigerant gas from the evaporator, increasing its temperature and pressure. This high-pressure, high-temperature gas then flows to the condenser, where it releases heat to the outside air and condenses into a high-pressure liquid. The liquid refrigerant then passes through an expansion valve, which reduces its pressure and temperature, causing it to vaporize in the evaporator. As it vaporizes, it absorbs heat from the vehicle's cabin, thus cooling the air before it is circulated into the passenger compartment. The integrated clutch engages and disengages the compressor from the engine's drive belt, allowing the AC system to be turned on or off as needed by the driver.

MAINTENANCE AND CARE

Proper maintenance ensures the longevity and efficient operation of your AC compressor and the entire air conditioning system.

- **Regular System Checks:** Have your vehicle's AC system inspected annually by a qualified technician. This can help identify potential issues before they become major problems.
- **Refrigerant Levels:** Ensure proper refrigerant levels. Low refrigerant can cause the compressor to overwork, leading to premature wear and failure. Only a qualified technician should check and adjust refrigerant levels.
- **Drive Belt Inspection:** Periodically check the serpentine belt that drives the compressor for signs of wear, cracks, fraying, or improper tension. A worn or loose belt can lead to reduced compressor performance or complete failure.
- **Condenser Cleaning:** Keep the condenser (typically located in front of the radiator) free of debris, leaves, insects, and dirt. A blocked condenser reduces heat exchange efficiency, forcing the compressor to work harder.
- **Run AC Periodically:** Even in cold weather, run your AC system for a few minutes once a month. This helps to circulate refrigerant and oil, keeping seals lubricated and preventing component degradation.

TROUBLESHOOTING COMMON ISSUES

If your vehicle's air conditioning system is not performing optimally, consider the following common issues. For any persistent or complex problems, consult a professional automotive technician.

- **No Cold Air:**
 - **Low Refrigerant:** The most common cause. This usually indicates a leak in the system.
 - **Compressor Clutch Not Engaging:** Check if the clutch on the compressor is spinning when the AC is turned on. A faulty clutch or electrical issue can prevent engagement.
 - **Blown Fuse:** Inspect the fuses related to the AC system in your vehicle's fuse box.
 - **Faulty Pressure Switch:** A malfunctioning pressure switch can prevent the compressor from operating.
- **Unusual Noises from AC System:**

- **Squealing or Grinding:** May indicate a failing compressor bearing, clutch, or a worn drive belt.
- **Rattling or Clicking:** Could be loose components, a failing clutch, or internal compressor issues.

- **Intermittent Cooling:**

- Often caused by low refrigerant levels, an intermittently faulty pressure switch, or an electrical connection issue.
- Can also be a sign of the compressor cycling on and off due to high system pressure.

Important: Attempting repairs without proper knowledge and tools can cause further damage or injury. Always consult a professional for complex diagnostics and repairs.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Denso NEW COMPRESSOR W/CLUTCH - 471-7026, please refer to the documentation included with your purchase. You may also contact Denso customer service directly through their official website or the contact information provided on the product packaging. Denso is committed to providing high-quality automotive components and support to ensure your satisfaction.

