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› [Denso](#) /

› [Denso 471-1023 A/C Compressor with Clutch User Manual](#)

Denso 471-1023

Denso 471-1023 A/C Compressor with Clutch User Manual

Model: 471-1023 | Brand: Denso

INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your Denso 471-1023 New A/C Compressor with Clutch. Please read this manual thoroughly before proceeding with any procedures to ensure safe and efficient use of the product.



Image: The Denso 471-1023 New A/C Compressor with Clutch, featuring its main body and integrated clutch assembly.

SAFETY INFORMATION

Always observe safety precautions when working with automotive components and refrigerants. Failure to do so may result in personal injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle's electrical system is disconnected before beginning installation.
- Handle refrigerants with care and in a well-ventilated area. Refer to local regulations for proper refrigerant handling and disposal.
- Consult a qualified automotive technician if you are unsure about any installation or repair procedures.

WHAT'S IN THE Box

Upon opening the package, verify that all components are present and undamaged.

- Denso 471-1023 A/C Compressor
- Integrated Clutch Assembly

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your A/C compressor. It is recommended that installation be performed by a certified technician.

1. **System Flush:** Before installing the new compressor, thoroughly flush the entire A/C system to remove old oil, debris, and contaminants. Failure to do so will void the warranty and can cause immediate failure of the new compressor.
2. **Refrigerant Oil:** Ensure the correct type and amount of refrigerant oil is used. Denso compressors are typically pre-filled with the correct amount of PAG oil, but always verify against vehicle specifications.
3. **Receiver Drier/Accumulator & Expansion Device:** Replace the receiver drier/accumulator and the expansion valve or orifice tube. These components are critical for system performance and contamination control.
4. **Belt Tension:** Install the drive belt and adjust to the manufacturer's specified tension.
5. **Electrical Connections:** Connect all electrical wiring to the compressor and clutch. Ensure connections are secure.
6. **Vacuum and Recharge:** Evacuate the A/C system to remove air and moisture. Then, recharge the system with the correct type and amount of refrigerant according to vehicle specifications.
7. **Leak Check:** Perform a thorough leak check on all connections.

Note: Refer to your vehicle's service manual for specific torque specifications and detailed procedures.

OPERATING INSTRUCTIONS

Once installed and the A/C system is properly charged, the compressor operates automatically as part of your vehicle's air conditioning system.

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

If the system does not cool effectively, refer to the Troubleshooting section.

MAINTENANCE

Regular maintenance of your vehicle's A/C system can extend the life of the compressor and ensure optimal performance.

- **Annual Inspection:** Have your A/C system inspected annually by a qualified technician.
- **Refrigerant Level:** Ensure the refrigerant level is correct. Low refrigerant can cause the compressor to overwork and fail prematurely.
- **Drive Belt:** Check the drive belt for wear, cracks, or proper tension. Replace if necessary.
- **Condenser Cleaning:** Keep the condenser fins clean and free of debris to allow for efficient heat exchange.

TROUBLESHOOTING

This section addresses common issues you might encounter. For complex problems, consult a professional technician.

| Problem | Possible Cause | Solution |
|--------------------------------|--|---|
| A/C not cooling | Low refrigerant charge, faulty expansion valve, clogged condenser, electrical issue. | Check refrigerant levels, inspect expansion valve, clean condenser, check electrical connections and fuses. |
| Compressor clutch not engaging | Low refrigerant pressure, faulty pressure switch, electrical issue, worn clutch coil. | Verify refrigerant charge, test pressure switch, check wiring and fuses, inspect clutch coil. |
| Unusual noise from compressor | Insufficient lubrication, internal compressor damage, loose mounting, worn drive belt. | Check oil level and type, inspect compressor for damage, ensure secure mounting, check drive belt. |

SPECIFICATIONS

Key technical specifications for the Denso 471-1023 A/C Compressor with Clutch.

Brand: Denso

Model: 471-1023

Item Weight: 12 pounds

Manufacturer Part Number: 471-1023

Special Features: Lightweight design, includes clutch

Exterior: Machined finish

WARRANTY AND SUPPORT

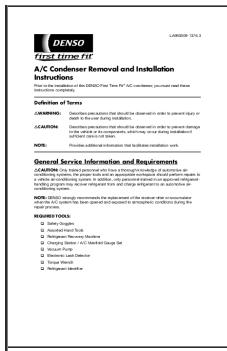
For warranty information or technical support, please refer to the official Denso website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Denso Official Website: www.denso.com

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Related Documents - 471-1023

| | |
|---|---|
|  | <p>Denso A/C System Troubleshooting Charts and Guide</p> <p>Comprehensive troubleshooting guide for Denso automotive A/C systems, covering common issues like abnormal noise, compressor problems, clutch malfunctions, and expansion valve faults with detailed causes and remedies.</p> |
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|  | <p><u>DENSO A/C Condenser Removal and Installation Instructions</u></p> <p>Detailed instructions for the removal and installation of DENSO First Time Fit® A/C condensers, including safety precautions, required tools, and step-by-step procedures for automotive air conditioning systems.</p> |
|  | <p><u>DENSO Automotive Catalog: A/C Compressors & Components</u></p> <p>Discover the comprehensive DENSO 2014 Automotive Catalog for A/C compressors and components. This guide offers extensive application data, troubleshooting advice, and product details for aftermarket vehicle parts. Find OE-quality replacements from DENSO.</p> |
|  | <p><u>MovinCool Climate Pro X Series Operation Manual - X14, X20, X26</u></p> <p>Official operation manual for MovinCool Climate Pro X14, X20, and X26 portable spot coolers. Provides detailed instructions on installation, safe operation, maintenance, and troubleshooting for DENSO's Climate Pro series.</p> |
|  | <p><u>Garage Essentials Issue 48: Automotive Equipment, Training & Finance</u></p> <p>Discover the latest automotive workshop equipment, diagnostic tools, technician training, and financing solutions in the Spring/Summer 2023 edition of Garage Essentials, featuring GSF Car Parts and leading industry brands.</p> |
|  | <p><u>Alphamarts PV-471 Series Use and Care Guide: Assembly, Safety, and Maintenance</u></p> <p>Comprehensive use and care guide for Alphamarts PV-471 series outdoor furniture, including assembly instructions, safety precautions, warranty information, and cleaning tips. Features models PV-471-ST, PV-471-SS, and PV-471-STB.</p> |

Documents - Denso – 471-1023



[DENSO Automotive Catalog: A/C Compressors & Components](#)

Discover the comprehensive DENSO 2014 Automotive Catalog for A/C compressors and components. This guide offers extensive application data, troubleshooting advice, and product details for aftermarket vehicle parts. Find OE-quality replacements from DENSO.

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