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NAPA 401002

NAPA 401002 Air Conditioner Fitting User Manual

Model: 401002

Introduction

This manual provides detailed instructions for the NAPA 401002 Air Conditioner Fitting. This component is designed for use in automotive air conditioning systems, ensuring a secure and leak-free connection within the refrigerant lines. Understanding its proper use and maintenance is crucial for the longevity and efficiency of your vehicle's AC system.

Image: The NAPA 401002 Air Conditioner Fitting displayed on top of its product packaging, which is labeled 'NAPA Air Conditioner Parts'.

Product Overview

The NAPA 401002 is a specialized fitting, measuring approximately 4-1/2 inches in length, designed to connect components within an automotive air conditioning system. Its robust construction ensures durability and reliable performance under various operating conditions.

Image: A close-up view of the NAPA 401002 Air Conditioner Fitting, showcasing its metallic construction and design.

Image: A detailed view of the NAPA product label, clearly showing the part number **401002** and the reference **TEM.401002**, indicating it is a fitting made in the USA.

Setup and Installation

Proper installation of the NAPA 401002 fitting is critical for preventing refrigerant leaks and ensuring optimal AC system performance. Always follow vehicle-specific service manual procedures.

- **Safety First:** Before beginning any work on the AC system, ensure it is completely depressurized. Wear appropriate personal protective equipment, including eye protection and gloves.
- **Component Verification:** Confirm that the NAPA 401002 fitting is the correct part for your specific vehicle and AC system requirements.
- **Cleanliness:** Thoroughly clean all mating surfaces and connection points to remove any dirt, debris, or old sealant. Contaminants can lead to leaks.
- **Lubrication:** Apply a small amount of appropriate refrigerant oil to the O-rings and threads of the fitting before installation. This aids in sealing and prevents O-ring damage during assembly.
- **Secure Connection:** Carefully align the fitting and hand-tighten it. Then, use a torque wrench to tighten to the manufacturer's specified torque values. Over-tightening or under-tightening can cause leaks.
- **Leak Test:** After installation, evacuate the AC system and perform a vacuum decay test. Then, recharge the system with the correct amount of refrigerant and perform a leak detection test using an electronic leak detector or UV dye.

Operating Principles

Once correctly installed, the NAPA 401002 fitting functions as a static connection point within the sealed refrigerant circuit of the air conditioning system. It does not have moving parts or require active operation. Its primary role is to maintain the integrity of the refrigerant lines, allowing for the efficient circulation of refrigerant necessary for cooling.

- The fitting ensures a sealed pathway for refrigerant flow between AC components.
- Proper sealing prevents refrigerant escape, which is critical for system performance and environmental compliance.
- Any compromise to the fitting's seal can lead to refrigerant loss, reduced cooling capacity, and potential damage to other AC components.

Maintenance

While the NAPA 401002 fitting itself requires minimal maintenance, periodic inspection of the AC system, including all fittings, is recommended to ensure continued optimal performance and prevent potential issues.

- **Visual Inspection:** Regularly inspect the fitting for any signs of corrosion, physical damage, or refrigerant residue (which may indicate a leak).
- **Leak Checks:** If you suspect a refrigerant leak or notice a decrease in AC performance, have the system professionally checked for leaks, including at all connection points.
- **Component Replacement:** If the fitting shows signs of damage, wear, or is confirmed to be leaking, it should be replaced immediately with a new NAPA 401002 fitting to restore system integrity.
- **System Cleanliness:** Keep the engine bay and surrounding areas of the AC components clean to prevent dirt and debris from accumulating around fittings, which could contribute to corrosion or damage.

Troubleshooting

This section addresses common issues that may arise related to the NAPA 401002 fitting and provides general guidance for resolution. Always consult a qualified automotive technician for complex issues.

Problem	Possible Cause	Solution
Refrigerant Leak at Fitting	Improper installation (e.g., incorrect torque), damaged O-ring, or damaged fitting.	Evacuate system, remove fitting, inspect O-rings and fitting for damage. Replace O-rings or fitting as needed. Reinstall with proper torque and perform leak test.
Poor AC Cooling Performance	Low refrigerant charge due to a leak, potentially at the fitting.	Perform a thorough leak detection test on the entire AC system, including all fittings. Repair any identified leaks and recharge the system to specifications.
Visible Corrosion or Damage on Fitting	Exposure to harsh environmental conditions, road salt, or chemical spills.	If corrosion or damage is significant and compromises the fitting's integrity, replace the fitting. Clean surrounding areas to prevent future issues.

Specifications

Key technical specifications for the NAPA 401002 Air Conditioner Fitting:

Attribute	Value
Part Number	401002
Length	4-1/2 inches
Product Dimensions	2 x 3 x 5 inches
Item Weight	3.04 ounces
Manufacturer	Napa
ASIN	B072NZX8XC
Date First Available	August 1, 2017

Warranty Information

Specific warranty details for the NAPA 401002 Air Conditioner Fitting are typically provided by the point of purchase or directly by NAPA. Please retain your purchase receipt and refer to the warranty documentation included with your product, or contact NAPA customer service for the most accurate and up-to-date warranty terms and conditions.

Support

For technical assistance, product inquiries, or further support regarding the NAPA 401002 Air Conditioner Fitting, please utilize the following resources:

- **NAPA Official Website:** For general product information, store locators, and contact details, visit www.napaonline.com.
- **Authorized NAPA Retailers:** Your local NAPA Auto Parts store can provide expert advice and assistance.
- **Professional Automotive Technicians:** For installation or complex troubleshooting, it is recommended to consult a certified automotive technician.

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