

## Four Seasons 24156

# Four Seasons 24156 Compressor Manifold Port Gasket Manual

Model: 24156

## 1. INTRODUCTION

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This manual provides detailed instructions for the proper installation, function, and maintenance of the Four Seasons 24156 Compressor Manifold Port Gasket. Adherence to these instructions is crucial for ensuring the correct operation and longevity of your vehicle's air conditioning system. This gasket is designed to create a seal between the A/C compressor and its manifold ports.

## 2. SAFETY INFORMATION

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Always prioritize safety when working on automotive systems. Failure to follow safety precautions can result in personal injury or damage to the vehicle.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle's engine is off and the battery is disconnected before beginning any work.
- The A/C system contains refrigerant under high pressure. Only qualified personnel should handle refrigerant evacuation and recharging. Do not attempt to open or disconnect A/C lines without proper equipment and training.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Keep work area clean and well-lit.

## 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged before proceeding with installation.

- One (1) Four Seasons 24156 Compressor Manifold Port Gasket.

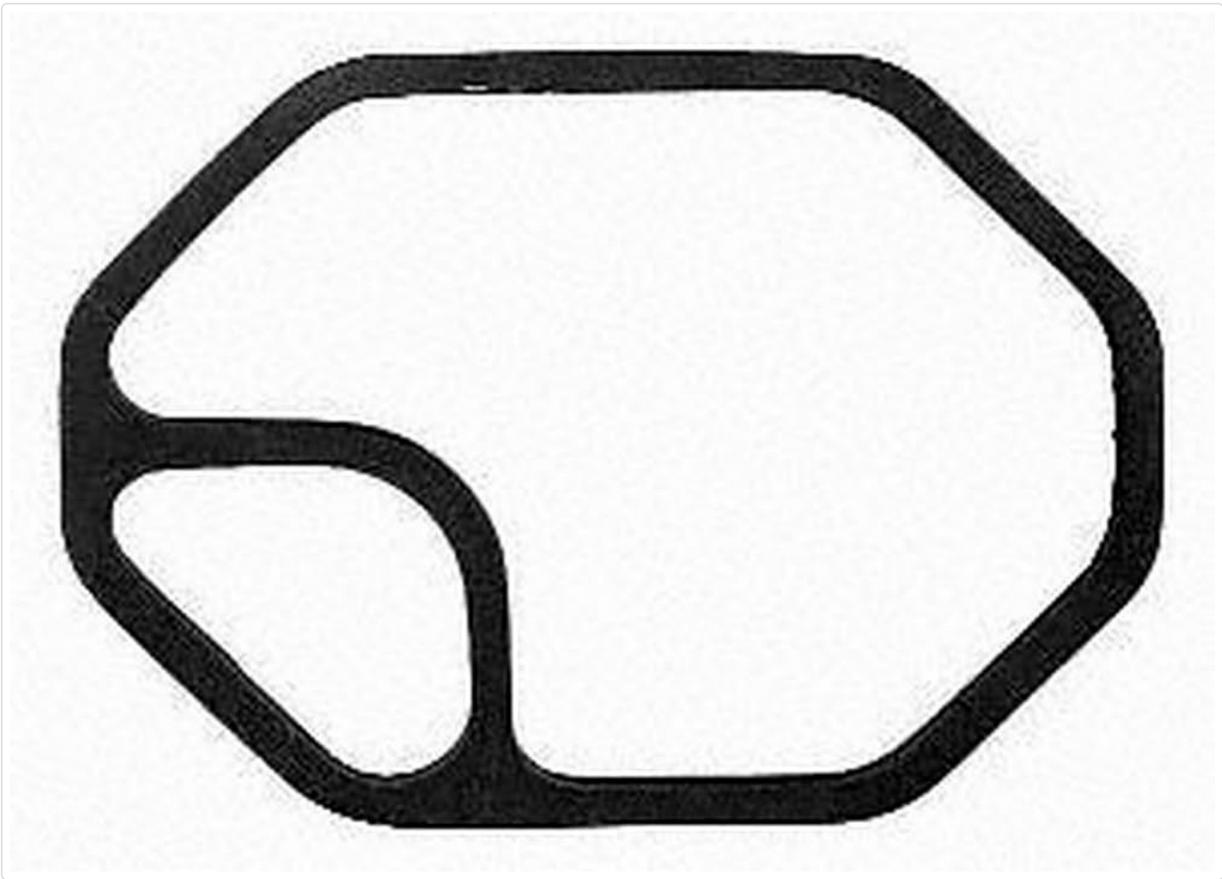


Image 1: The Four Seasons 24156 Compressor Manifold Port Gasket. This image displays the round, black gasket, which is essential for sealing the compressor manifold ports.

## 4. INSTALLATION INSTRUCTIONS

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This section outlines the general steps for replacing a compressor manifold port gasket. Specific procedures may vary by vehicle model. Always consult your vehicle's service manual.

### 4.1. Preparation

1. Park the vehicle on a level surface and engage the parking brake.
2. Disconnect the negative terminal of the vehicle's battery.
3. Have the A/C system professionally evacuated of all refrigerant. This step is critical and requires specialized equipment.
4. Locate the A/C compressor and its manifold ports.

### 4.2. Removal of Old Gasket

1. Carefully unbolt and remove the manifold from the compressor. Be prepared for any residual refrigerant or oil.
2. Remove the old gasket(s) from both the compressor and the manifold surfaces.
3. Thoroughly clean both mating surfaces to remove any old gasket material, dirt, or corrosion. Use a suitable gasket scraper and a non-abrasive cleaner. Ensure surfaces are smooth and free of debris.

### 4.3. Gasket Installation

1. Inspect the new Four Seasons 24156 gasket for any defects.
2. Position the new gasket onto the compressor manifold ports. Ensure it is correctly aligned with all bolt holes and port openings.
3. Carefully reattach the manifold to the compressor, ensuring the gasket remains properly seated.

4. Install the manifold bolts by hand to prevent cross-threading.
5. Tighten the bolts to the manufacturer's specified torque using a torque wrench. Follow the recommended tightening sequence (e.g., crisscross pattern) to ensure even pressure and a proper seal. Refer to your vehicle's service manual for exact torque specifications.

#### 4.4. Reassembly and Post-Installation

1. Reconnect any other components that were disconnected during the process.
2. Reconnect the negative battery terminal.
3. Have the A/C system professionally vacuumed to remove air and moisture, then recharged with the correct type and amount of refrigerant and oil.
4. Perform a leak test on the A/C system using an appropriate leak detection method.

### 5. SYSTEM FUNCTION AND POST-INSTALLATION CHECKS

After successful installation and recharging of the A/C system, perform the following checks:

- Start the vehicle and turn on the A/C system to its maximum cooling setting.
- Listen for any unusual noises from the compressor area.
- Visually inspect the manifold port area for any signs of refrigerant leaks (e.g., oily residue, bubbles if using leak detection dye).
- Verify that cold air is being discharged from the vehicle's vents.
- Monitor the A/C system's performance over the next few days for consistent cooling.

### 6. PERIODIC INSPECTION AND CARE

The Four Seasons 24156 gasket is designed for long-term sealing. Direct maintenance on the gasket itself is not typically required. However, periodic inspection of the A/C system can help identify potential issues early:

- During routine vehicle maintenance, visually inspect the A/C compressor and manifold connections for any signs of leaks or damage.
- Ensure that the A/C system is operating efficiently. A decrease in cooling performance could indicate a leak, potentially at a gasket seal.

### 7. TROUBLESHOOTING

If issues arise after installation, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Refrigerant Leak at Manifold Port	Improper gasket installation, damaged gasket, incorrect torque on bolts, dirty mating surfaces.	Re-evacuate system, disassemble, clean surfaces thoroughly, install new gasket, ensure correct torque. Perform leak test.
A/C System Not Cooling Effectively	Low refrigerant charge (due to leak), other A/C system component failure.	Check for leaks (including at the gasket), recharge system. If problem persists, consult a qualified A/C technician for diagnosis of other components.

## 8. SPECIFICATIONS

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Key specifications for the Four Seasons 24156 Compressor Manifold Port Gasket:

- **Part Number:** 24156
- **Brand:** Four Seasons
- **Material:** Hnbr (Hydrogenated Nitrile Butadiene Rubber)
- **Shape:** Round
- **Item Weight:** 0.8 ounces
- **Product Dimensions:** 4.2 x 4.1 x 1.3 inches (packaging dimensions)
- **UPC:** 096361241565

## 9. WARRANTY AND SUPPORT

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For information regarding product warranty, please refer to the official Four Seasons website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

For technical assistance or further inquiries, please contact Four Seasons customer service.