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> Four Seasons 59302 Large Bore 2 Piece Service Port Valve Core Remover - Installer Instruction Manual

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Essential guide for proper use and maintenance

1. PRODUCT OVERVIEW

The Four Seasons 59302 is a specialized tool designed for the efficient removal and installation of large bore valve cores in automotive air conditioning service ports. This two-piece tool ensures a secure grip and precise operation, facilitating maintenance and repair tasks on AC systems.



A close-up view of the Four Seasons 59302 tool, featuring a brass knurled handle in the center and two silver-colored, slotted ends designed for engaging valve cores. The tool is shown horizontally against a white background.

2. SETUP

Before using the tool, ensure the work area is clean and well-lit. Always wear appropriate personal protective equipment, including safety glasses and gloves, when working with automotive systems.

1. **Inspect the Tool:** Verify that the tool is clean and free from damage or debris.
2. **Identify Valve Core Type:** Confirm that the valve core to be serviced is a large bore type, compatible with

this tool.

3. **Prepare Service Port:** Ensure the service port is accessible and clean. Remove any caps or covers.

3. OPERATING INSTRUCTIONS

This tool is designed for both removal and installation of large bore valve cores. Exercise caution and follow proper procedures to prevent damage to the AC system or injury.

3.1. Removing a Valve Core

1. **Depressurize System:** Ensure the AC system is properly depressurized before attempting to remove any valve cores. Refer to your vehicle's service manual for specific procedures.
2. **Engage Tool:** Select the appropriate end of the tool for removal. Carefully insert the slotted end into the valve core, ensuring it fully engages the core's slots.
3. **Turn Counter-Clockwise:** Gently turn the tool counter-clockwise to loosen and unscrew the valve core. Apply steady, even pressure.
4. **Extract Core:** Once loosened, carefully pull the tool straight out to remove the valve core from the service port.

3.2. Installing a Valve Core

1. **Prepare New Core:** Obtain a new, compatible large bore valve core. It is recommended to apply a small amount of appropriate refrigerant oil to the O-ring of the new valve core for easier installation and better sealing.
2. **Engage Tool:** Select the appropriate end of the tool for installation. Carefully place the new valve core onto the slotted end of the tool.
3. **Insert and Turn Clockwise:** Insert the tool with the new valve core into the service port. Gently turn the tool clockwise to screw the valve core into place.
4. **Tighten:** Tighten the valve core until it is snug. **Do not overtighten**, as this can damage the valve core or the service port threads.
5. **Leak Check:** After installation, perform a leak check on the service port to ensure a proper seal.

4. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your Four Seasons 59302 tool.

- **Cleaning:** After each use, wipe the tool clean with a dry cloth to remove any refrigerant oil, dirt, or debris.
- **Storage:** Store the tool in a clean, dry place, away from corrosive materials and extreme temperatures.
- **Inspection:** Periodically inspect the slotted ends for wear or damage. Replace the tool if significant wear or damage is observed to ensure proper function and prevent damage to valve cores.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Valve core difficult to remove/install	Corrosion, cross-threading, or incorrect tool engagement.	Ensure tool is fully engaged. Apply penetrating oil if corrosion is suspected (for removal). Do not force; check for cross-threading.
Tool slips on valve core	Worn tool ends, incorrect size, or improper engagement.	Verify tool is for large bore cores. Ensure full engagement. Replace tool if ends are worn.
Leak after valve core installation	Valve core not fully seated, damaged O-ring, or overtightened.	Re-check tightness (do not overtighten). Replace valve core if O-ring is damaged. Ensure service port threads are clean.

6. SPECIFICATIONS

Feature	Detail
Manufacturer	Four Seasons
Model Number	59302
Item Weight	2.24 ounces
Product Dimensions	4.5 x 1.8 x 0.7 inches
Product Type	Auto Part
Country of Origin	China

7. WARRANTY AND SUPPORT

For warranty information or technical support regarding the Four Seasons 59302 tool, please refer to the official Four Seasons product documentation or contact their customer service directly. Keep your purchase receipt for any warranty claims.

Contact Information: Please visit the official Four Seasons website for the most current contact details and support resources.