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User Manual

1. PRODUCT OVERVIEW

The Standard Motor Products SK56 Fuel Injection O-Ring Kit is designed to provide a reliable seal for fuel injectors in various automotive applications. This kit contains the necessary O-rings to ensure proper sealing, preventing fuel leaks and maintaining optimal fuel system pressure. It is crucial for the efficient operation and safety of your vehicle's fuel injection system.

This kit is compatible with a range of vehicles, including specific models from Buick, Cadillac, and Chevrolet, as detailed in the product specifications.



Figure 1: Overview of the Standard Motor Products SK56 Fuel Injection O-Ring Kit, showing multiple O-rings of varying sizes and colors, typically used for different parts of the fuel injector assembly.

2. INSTALLATION GUIDE

Proper installation of the O-rings is critical for preventing fuel leaks and ensuring the longevity of the fuel injection system. Always refer to your vehicle's specific service manual for detailed instructions and safety precautions before beginning any work on the fuel system.

2.1 Safety Precautions

- Ensure the engine is cool and the vehicle's battery is disconnected before starting work.
- Relieve fuel system pressure according to your vehicle's service manual.
- Work in a well-ventilated area and have a fire extinguisher readily available.
- Wear appropriate personal protective equipment, including safety glasses and fuel-resistant gloves.
- Avoid open flames or sparks near the fuel system.

2.2 Installation Steps

1. **Preparation:** Clean the fuel injector and fuel rail surfaces thoroughly. Remove any old O-ring material or debris. Inspect the injector and rail for any damage or corrosion that could compromise the seal.
2. **O-Ring Selection:** Identify the correct O-rings from the SK56 kit for each specific location on the fuel injector (e.g., upper and lower seals). The kit typically includes different sizes or materials for various sealing points.
3. **Lubrication:** Lightly lubricate the new O-rings with a small amount of clean engine oil or a specialized O-ring lubricant. This helps prevent damage during installation and ensures a proper seal. Do not use petroleum jelly or

silicone-based lubricants unless specified by the manufacturer.

4. **Installation onto Injector:** Carefully roll the lubricated O-rings onto the fuel injector, ensuring they sit correctly in their grooves without twisting or pinching.
5. **Injector Installation:** Gently insert the fuel injector into the fuel rail or intake manifold port. Apply even pressure to avoid damaging the O-rings. Ensure the injector is fully seated.
6. **Reassembly:** Reconnect all fuel lines, electrical connectors, and mounting hardware. Double-check all connections for tightness.
7. **Leak Check:** After reassembly, reconnect the battery and turn the ignition to the "ON" position (without starting the engine) to pressurize the fuel system. Carefully inspect all new O-ring locations for any signs of fuel leaks. If no leaks are observed, start the engine and re-check for leaks while the engine is running.



Figure 2: A closer view of the O-rings, highlighting their various sizes and the precision required for proper fitment in fuel injection systems.

3. MAINTENANCE AND CARE

While O-rings are designed for durability, periodic inspection and proper care can extend their lifespan and prevent premature failure.

- **Regular Inspection:** During routine vehicle maintenance or when working on the fuel system, visually inspect the O-rings for signs of wear, cracking, hardening, or swelling.
- **Replacement Intervals:** O-rings should generally be replaced whenever fuel injectors are removed or serviced, as they can be easily damaged during removal or reinstallation. Consider replacing them as part of preventative maintenance if your vehicle's service schedule recommends it for fuel system components.
- **Proper Handling:** Avoid touching O-rings with dirty hands or tools. Contaminants can degrade the material or compromise the seal.
- **Storage:** Store unused O-rings in a cool, dry place away from direct sunlight, ozone, and chemicals that could degrade the rubber material.

4. TROUBLESHOOTING

If you experience issues after installing new O-rings, consider the following common problems and their solutions:

4.1 Fuel Leaks

- **Cause:** Improperly seated O-ring, damaged O-ring during installation, incorrect O-ring size, or damaged fuel

injector/rail surface.

- **Solution:** Re-inspect the affected area. If the O-ring is pinched or twisted, remove the injector, replace the O-ring with a new one from the kit, lubricate, and reinstall carefully. Check the injector and rail for burrs or damage.

4.2 Engine Performance Issues (e.g., misfires, rough idle)

- **Cause:** While less common for O-rings directly, a severe fuel leak can affect fuel pressure, leading to performance issues. Also, if an O-ring prevents an injector from seating correctly, it could lead to vacuum leaks or improper spray patterns.
- **Solution:** Address any fuel leaks immediately. Ensure injectors are fully seated and all connections are secure. If performance issues persist without leaks, consult a qualified mechanic as the problem may lie elsewhere in the fuel or ignition system.

5. SPECIFICATIONS

Attribute	Detail
Brand	Standard Motor Products
Model Number	SK56
Manufacturer Part Number	SK56
UPC	707390306995
Item Weight	1.6 ounces
Product Dimensions	2 x 1.5 x 3.5 inches
Unit Count	1.0 Count (Kit)
Compatibility	Fits various models including 1989 - 1987 Buick Century; 1993 - 1988 Buick Regal; 1988 - 1985 Cadillac Cimarron; 1993 - 1987 Chevrolet Beretta; 1994 - 1987 Chevrolet Cavalier; 1990 - 1987 Chevrolet Celebrity; 1993 - 1987 Chevrolet Corsica; 1994 - 1990 Chevrolet Lumina; 1989 - 1987 Old (partial list, refer to full product description for complete compatibility)

6. WARRANTY AND SUPPORT

Standard Motor Products offers a limited warranty on its products. For specific warranty terms and conditions, please refer to the official Standard Motor Products website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

For technical support, installation assistance, or questions regarding product compatibility, please contact Standard Motor Products customer service:

- **Website:** www.smpcorp.com
- **Customer Service:** Refer to the website for contact numbers or email support.

Always ensure you are using genuine Standard Motor Products parts for optimal performance and safety.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question