

Fel-Pro MS 97393

FEL-PRO MS 97393 Intake Manifold Gasket Set

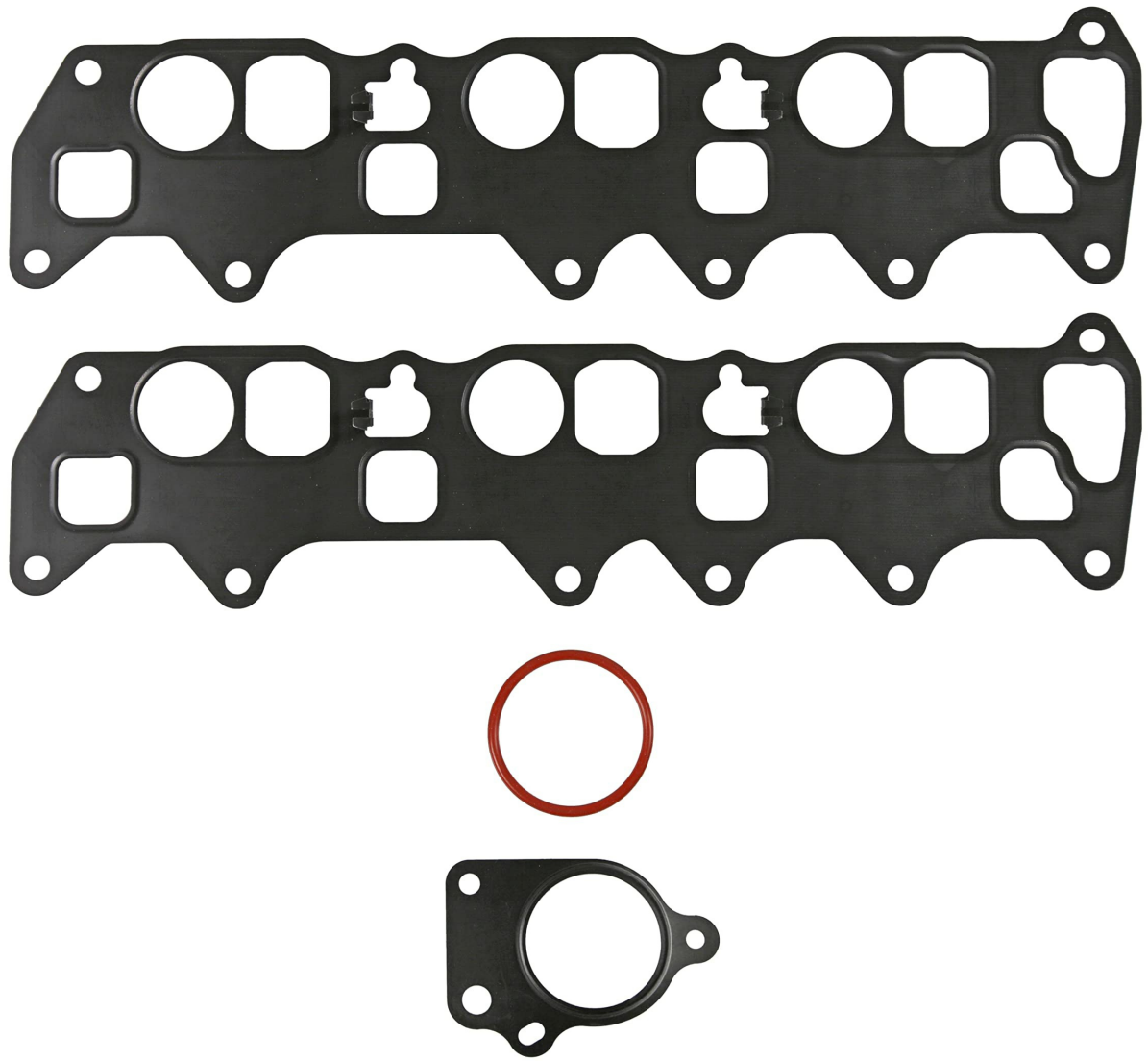
User Manual

INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of your FEL-PRO MS 97393 Intake Manifold Gasket Set. Fel-Pro gaskets are engineered to provide reliable sealing solutions for automotive applications, ensuring performance and durability.

The FEL-PRO MS 97393 gasket set is designed for imperfect sealing surfaces, utilizing exclusive sealing innovations and proprietary materials. Each component is rigorously tested to ensure optimal performance in real-world conditions.

PRODUCT OVERVIEW



This image displays the complete FEL-PRO MS 97393 Intake Manifold Gasket Set, including two main intake manifold gaskets, a red O-ring, and a smaller black gasket, all designed for precise sealing.

The FEL-PRO MS 97393 Intake Manifold Gasket Set includes all necessary components for a complete repair, designed to meet or exceed OEM specifications. These gaskets are crucial for maintaining proper engine function by preventing leaks between the intake manifold and the cylinder head.

Key Features:

- **Designed for Imperfect Sealing Surfaces:** Engineered specifically for the repair environment to help seal challenging surfaces.
- **Advanced Sealing Technologies:** Features exclusive innovations and proprietary materials for a superior seal.
- **Expert Engineering:** Parts are designed, reviewed, validated, and approved by Fel-Pro engineers.
- **Real-World Tested:** Components are tested on-vehicle to ensure optimal performance.
- **Complete Repair Solution:** Gasket sets include every part needed for the repair unless otherwise noted.

SETUP AND INSTALLATION

Proper installation is critical for the longevity and performance of your new gasket set. It is highly recommended that installation be performed by a qualified automotive technician or by following a vehicle-specific service manual.

General Installation Guidelines:

1. **Surface Preparation:** Thoroughly clean all mating surfaces on both the cylinder head and the intake manifold. Remove all old gasket material, carbon deposits, and any debris. Ensure surfaces are dry and free of oil or grease.
2. **Inspect Components:** Before installation, inspect the new gaskets for any damage or imperfections. Verify that all components included in the set match the parts being replaced.
3. **Gasket Placement:** Carefully position the new gaskets onto the cylinder head or intake manifold, ensuring proper alignment with all bolt holes and ports. Do not use sealants unless specifically recommended by the vehicle manufacturer or Fel-Pro for this application.
4. **Bolt Installation and Torque:** Install the intake manifold bolts by hand to ensure they are not cross-threaded. Follow the vehicle manufacturer's specified torque sequence and torque values. Use a calibrated torque wrench to tighten bolts in stages to the final specification. Incorrect torque can lead to leaks or damage.
5. **Final Checks:** After installation, recheck all connections and ensure all hoses, wires, and components are reconnected properly.

***Note:** Always refer to your vehicle's specific service manual for detailed, step-by-step installation instructions, torque specifications, and any special procedures required for your engine.*

OPERATING PRINCIPLES

Once properly installed, the FEL-PRO MS 97393 Intake Manifold Gasket Set functions as a critical seal within your engine's induction system. Its primary role is to prevent air, fuel, and coolant leaks between the intake manifold and the cylinder head. A properly sealed intake manifold ensures:

- **Optimal Air/Fuel Mixture:** Prevents vacuum leaks that can lead to an incorrect air/fuel ratio, affecting engine performance and fuel efficiency.
- **Coolant Containment:** If applicable, seals coolant passages to prevent leaks that could lead to engine overheating or internal damage.
- **Oil Containment:** If applicable, seals oil passages to prevent oil leaks.
- **Consistent Engine Performance:** Contributes to smooth idling, proper acceleration, and overall engine stability.

The gaskets are designed to withstand the varying temperatures, pressures, and chemical exposures within the engine environment, providing a durable and long-lasting seal.

MAINTENANCE

Intake manifold gaskets are generally considered maintenance-free components once installed correctly. They are designed for the lifespan of the engine under normal operating conditions. However, periodic visual inspection can help identify potential issues early.

Recommended Checks:

- **Visual Inspection:** During routine engine checks or oil changes, visually inspect the area around the intake manifold for any signs of leaks (coolant, oil, or vacuum). Look for stains, drips, or unusual residue.
- **Engine Performance:** Pay attention to any changes in engine performance, such as rough idling, misfires, decreased fuel economy, or unusual noises, which could indicate a vacuum leak.

If a leak is suspected or detected, it is recommended to have the vehicle inspected by a qualified technician. Gaskets are typically replaced when they show signs of failure or during other related engine repairs.

TROUBLESHOOTING

While Fel-Pro gaskets are designed for reliability, issues can arise if installation is incorrect or if other engine components fail. Here are common symptoms of intake manifold gasket problems and general troubleshooting advice:

Common Symptoms of Gasket Failure:

- **Coolant Leaks:** Visible coolant dripping or puddling under the vehicle, especially near the front or rear of the engine block.
- **Oil Leaks:** Visible oil dripping or residue around the intake manifold area.
- **Vacuum Leaks:** Can cause rough idle, misfires, lean engine codes (Check Engine Light), poor acceleration, or increased fuel consumption. A hissing sound from the engine bay might also be present.
- **Engine Overheating:** If coolant leaks are severe, it can lead to low coolant levels and engine overheating.
- **Coolant in Oil / Oil in Coolant:**In severe cases, internal gasket failure can lead to mixing of fluids, indicated by milky oil or oily residue in the coolant reservoir.

Troubleshooting Steps:

1. **Visual Inspection:** Carefully inspect the entire intake manifold area for visible signs of leaks, cracks, or loose bolts.
2. **Listen for Vacuum Leaks:** With the engine running, listen for any hissing sounds around the intake manifold. A mechanic may use a smoke machine to pinpoint vacuum leaks.
3. **Check Fluid Levels:** Regularly check coolant and oil levels. Note any rapid drops.
4. **Diagnostic Scan:** If the Check Engine Light is on, retrieve diagnostic trouble codes (DTCs) using an OBD-II scanner. Codes related to lean conditions (e.g., P0171, P0174) often point to vacuum leaks.
5. **Professional Diagnosis:** If you suspect a gasket issue and cannot identify the cause, it is best to consult a certified automotive technician for a thorough diagnosis and repair.

SPECIFICATIONS

Attribute	Value
Manufacturer	Fel-Pro
Brand	Fel-Pro
Model Number	MS 97393
Item Weight	4.1 ounces
Package Dimensions	17.38 x 4 x 0.59 inches
UPC	019826254627
Date First Available	February 2, 2021

WARRANTY INFORMATION

Specific warranty details for the FEL-PRO MS 97393 Intake Manifold Gasket Set are provided by the manufacturer, Fel-Pro. For comprehensive information regarding warranty coverage, terms, and conditions, please refer to the official Fel-Pro website or contact their customer service directly. It is important to retain your proof of purchase for any warranty claims.

SUPPORT

For technical assistance, product inquiries, or further support regarding your FEL-PRO MS 97393 Intake Manifold Gasket Set, please utilize the following resources:

- **Fel-Pro Official Website:** Visit the official Fel-Pro website for product information, technical bulletins, and contact options.
- **Authorized Dealers:** Contact the retailer or authorized automotive parts dealer from whom you purchased the product.
- **Professional Automotive Technicians:** For installation or complex diagnostic issues, consult a certified automotive technician.

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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.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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