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› Fel-Pro MS 97118-1 Engine Intake Manifold Gasket Set Instruction Manual

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Model: MS 97118-1

1. PRODUCT OVERVIEW

The Fel-Pro MS 97118-1 Engine Intake Manifold Gasket Set is engineered to provide a reliable seal for your vehicle's intake manifold. These gaskets are designed with application-specific materials and unique features to ensure optimal performance and durability, even on imperfect sealing surfaces. Fel-Pro gaskets are rigorously tested to meet professional standards.



Image 1.1: Fel-Pro Intake Manifold Gasket banner, highlighting the product category.

Key Features:

- **Designed for Imperfect Sealing Surfaces:** Engineered specifically for the repair environment to help seal surfaces that may not be perfectly flat.
- **Advanced Sealing Technologies:** Incorporates exclusive sealing innovations and proprietary materials for a superior, long-lasting seal.
- **Engineering Expertise:** Parts are developed, reviewed, validated, and approved by Fel-Pro engineers through extensive research and development.
- **Real-World Tested:** Components undergo on-vehicle testing and validation to ensure optimal performance under actual driving conditions.



Image 1.2: Examples of Fel-Pro gaskets showcasing sealing technologies and real-world testing.

2. COMPATIBILITY

This Fel-Pro MS 97118-1 Engine Intake Manifold Gasket Set is compatible with the following vehicle models:

- 2015-2017 Mobility Ventures MV-1
- 2013-2019 Ford Police Interceptor Sedan
- 2013-2020 Ford Police Interceptor Utility
- 2015-2020 Ford Transit-150
- 2015-2020 Ford Transit-250
- 2015-2020 Ford Transit-350
- 2015-2020 Ford Transit-350 HD
- 2011-2019 Ford Edge
- 2011-2019 Ford Explorer
- 2011-2014 Ford F-150
- 2011-2017 Ford Mustang
- 2011-2012 Ford Fusion
- 2011-2019 Lincoln MKS
- 2011-2019 Lincoln MKT
- 2011-2018 Lincoln MKX
- 2015-2017 Lincoln Navigator

3. WHAT'S IN THE BOX

The Fel-Pro MS 97118-1 Engine Intake Manifold Gasket Set includes all necessary gaskets for the intake manifold repair, unless otherwise specified.

- Intake Manifold Gasket Set (specific components may vary by application, but all required parts are included).



SEALING TECHNOLOGIES

Exclusive sealing innovations and technologies with proprietary materials and unique design features to ensure a superior seal for your repair

Image 3.1: A complete Fel-Pro MS 97118-1 gasket set, showing all included components.

4. INSTALLATION GUIDELINES

Proper installation is crucial for the effective sealing and longevity of your intake manifold gasket. Always consult your vehicle's specific service manual for detailed, step-by-step instructions, torque specifications, and any special tools required. The following are general guidelines:

1. **Preparation:** Ensure the engine is cool before beginning work. Disconnect the battery. Relieve fuel system pressure if necessary.
2. **Disassembly:** Carefully remove all components obstructing access to the intake manifold, such as air intake, fuel lines, wiring harnesses, and vacuum lines. Label or photograph connections to aid reassembly.
3. **Manifold Removal:** Unbolt and carefully remove the intake manifold. Be aware of any remaining fluids (coolant, oil) that may spill.

4. **Surface Cleaning:** This is a critical step. Thoroughly clean both the cylinder head and intake manifold sealing surfaces. Remove all traces of old gasket material, carbon deposits, oil, and coolant. Use a plastic scraper or appropriate gasket remover to avoid damaging aluminum surfaces. Ensure surfaces are dry and free of debris.
5. **Gasket Placement:** Carefully position the new Fel-Pro gaskets onto the clean sealing surfaces. Ensure they are correctly oriented and aligned with all bolt holes and ports. Do not use additional sealants unless specifically instructed by the vehicle service manual or gasket manufacturer.
6. **Manifold Reinstallation:** Carefully place the intake manifold back onto the engine, ensuring the gaskets remain in place. Install all bolts finger-tight.
7. **Torque Sequence:** Refer to your vehicle's service manual for the correct bolt tightening sequence and torque specifications. Improper torque can lead to leaks or manifold damage. Tighten bolts in stages to the specified torque.
8. **Reassembly:** Reconnect all removed components, including wiring, hoses, and fuel lines. Double-check all connections.
9. **Fluid Refill & Test:** Refill any drained fluids (e.g., coolant). Start the engine and check for leaks. Monitor engine performance and temperature.

Warning: Improper installation can lead to engine damage, fluid leaks, and reduced performance. If you are unsure about any step, seek assistance from a qualified automotive technician.



Image 4.1: A mechanic performing engine work and an intake manifold assembly, illustrating the installation environment.

5. FUNCTION AND OPERATION

The intake manifold gasket creates a seal between the intake manifold and the cylinder head(s) of an internal combustion engine. Its primary function is to prevent vacuum leaks, which can lead to unmetered air entering the engine, causing rough idling, misfires, and poor fuel economy. Additionally, it seals coolant and oil passages that may run through the intake manifold, preventing external leaks and cross-contamination of fluids.

6. MAINTENANCE

Intake manifold gaskets are designed for long-term durability. Regular maintenance primarily involves periodic visual inspection for signs of leaks. While the gasket itself does not require routine maintenance, ensuring proper engine cooling system function and avoiding overheating can help prolong its life. If any signs of leakage or engine performance issues arise, prompt diagnosis and repair are recommended.

7. TROUBLESHOOTING

A failing intake manifold gasket can manifest in several ways. If you experience any of the following symptoms, it may indicate a compromised gasket:

- **Vacuum Leaks:** Rough idle, engine misfires, poor acceleration, or a 'hissing' sound from the engine bay.
- **Coolant Leaks:** Visible coolant puddles under the vehicle, a sweet smell, or a noticeable drop in coolant level without an external radiator or hose leak. Coolant may leak externally or internally into the engine oil or combustion chambers.
- **Oil Leaks:** Visible oil seepage around the intake manifold area.
- **Engine Overheating:** Internal coolant leaks can lead to insufficient cooling and engine overheating.
- **Check Engine Light:** Various engine performance issues caused by a faulty gasket can trigger a Check Engine Light (CEL) with associated diagnostic trouble codes (DTCs).

If you suspect an intake manifold gasket failure, it is recommended to have the vehicle inspected by a qualified technician to prevent further engine damage.

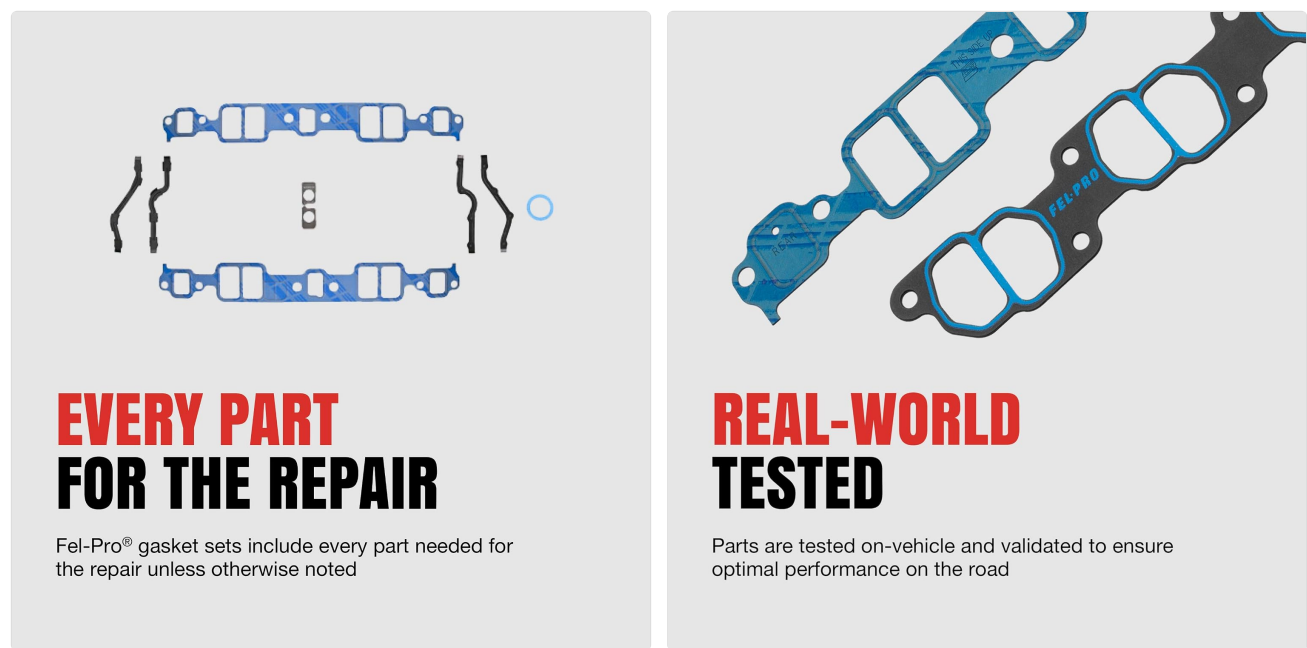


Image 7.1: Detailed views of Fel-Pro intake manifold gaskets, illustrating their design and sealing features.

8. SPECIFICATIONS

Specification	Detail
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Specification	Detail
Brand	Fel-Pro
Model Number	MS 97118-1
Item Thickness	0.06 Inches
Color	Assorted
Shape	Round (referring to individual sealing rings)
Item Weight	3.2 ounces
Product Dimensions	24 x 4 x 0.8 inches
UPC	019826522221
Manufacturer Part Number	MS971181

9. WARRANTY INFORMATION

Fel-Pro products are manufactured to high-quality standards. For specific warranty details regarding the MS 97118-1 Engine Intake Manifold Gasket Set, please refer to the official Fel-Pro website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please visit the official Fel-Pro website or contact their customer service department. You can often find detailed product information, FAQs, and contact options on their brand page or support section.
Fel-Pro Store on Amazon: [Visit the Fel-Pro Store](#)