

Fel-Pro 61048

FEL-PRO 61048 Throttle Body Gasket Instruction Manual

Brand: Fel-Pro | Model: 61048

1. INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of your FEL-PRO 61048 Throttle Body Gasket. Fel-Pro gaskets are engineered to provide 100% vehicle sealing, utilizing application-specific materials to deliver reliable sealing solutions with the performance and durability trusted by professionals.

Key Features:

- Meets or exceeds all original equipment specifications.
- Application-specific design to ensure a perfect fit.
- Engineered and manufactured specifically for the repair environment.
- Unsurpassed quality you can trust.
- Validated for fit, form, and function.



Figure 1: The FEL-PRO 61048 Throttle Body Gasket. This image displays the precise shape and bolt hole alignment of the gasket, designed for a specific throttle body application.

2. PRODUCT OVERVIEW

The throttle body gasket is a critical component in your vehicle's engine system, responsible for creating a seal between the throttle body and the intake manifold. This seal prevents air leaks, which can lead to incorrect air-fuel mixtures, affecting engine performance, fuel efficiency, and emissions. The FEL-PRO 61048 is specifically designed to provide a durable and leak-free seal for compatible vehicle models.



Figure 2: A general view of an engine bay with a gasket being prepared for installation. This illustrates the typical environment where the throttle body gasket would be installed.



Figure 3: A diagram showcasing various engine gaskets. While not specific to the 61048, it provides context on the diversity and importance of gaskets in an engine system.

3. INSTALLATION GUIDE

Installation of a throttle body gasket requires mechanical knowledge and appropriate tools. It is highly recommended that this procedure be performed by a qualified automotive technician. Improper installation can lead to engine damage or performance issues.

General Installation Steps:

1. **Safety First:** Ensure the vehicle's engine is cool and the battery is disconnected before beginning any work.
2. **Access the Throttle Body:** Locate the throttle body, typically mounted on the intake manifold. You may need to remove air intake hoses, electrical connectors, and other components to gain access.
3. **Remove Old Gasket:** Carefully unbolt the throttle body from the intake manifold. Once removed, thoroughly clean both mating surfaces to remove any old gasket material, carbon buildup, or debris. Use a gasket scraper and appropriate cleaning solvents, ensuring no foreign material enters the intake manifold.
4. **Inspect Surfaces:** Check both the throttle body and intake manifold surfaces for any damage, warpage, or irregularities that could compromise the new seal.
5. **Position New Gasket:** Place the new FEL-PRO 61048 gasket onto the intake manifold or throttle body, ensuring proper alignment with all bolt holes and passages. The gasket is designed for a precise fit.
6. **Reinstall Throttle Body:** Carefully reattach the throttle body, aligning it with the gasket and bolt holes. Insert and hand-tighten all bolts.
7. **Torque Bolts:** Refer to your vehicle's service manual for the correct torque specifications and tightening sequence for the throttle body bolts. Tighten bolts in a crisscross pattern to ensure even pressure and prevent warping.
8. **Reconnect Components:** Reattach all hoses, electrical connectors, and other components that were removed.
9. **Final Checks:** Reconnect the battery. Start the engine and check for any air leaks around the throttle body area. Listen for hissing sounds and observe engine idle stability.



Figure 4: A technician working on an engine, illustrating the professional environment where such installations are typically performed.

4. OPERATING PRINCIPLES

The FEL-PRO 61048 Throttle Body Gasket functions by creating a hermetic seal between the throttle body and the intake manifold. This seal is crucial for maintaining the precise air-fuel mixture required for optimal engine combustion. When the throttle body opens, it allows air into the engine. The gasket ensures that all air entering the engine passes through the throttle body and is accurately measured by the mass airflow sensor, preventing unmetered air from entering the system. An effective seal prevents vacuum leaks, which can cause rough idling, misfires, reduced power, and trigger the check engine light.

5. MAINTENANCE

Throttle body gaskets are generally designed for long-term durability and do not require routine maintenance. However, it is advisable to inspect the gasket whenever the throttle body or intake manifold area is accessed for other repairs. Look for signs of wear, cracking, or deterioration. If any leaks are suspected (e.g., hissing sounds, rough idle, or diagnostic trouble codes related to vacuum leaks), the gasket should be inspected and replaced if necessary. Always use a new gasket when reinstalling the throttle body after removal.

6. TROUBLESHOOTING

If you experience issues after installing or while using the FEL-PRO 61048 Throttle Body Gasket, consider the following common troubleshooting steps:

- **Rough Idle or Stalling:** This is a common symptom of a vacuum leak. Recheck the gasket installation for proper seating and ensure all bolts are torqued to specification. Inspect the gasket for any damage that might have occurred during installation.
- **Check Engine Light (CEL) with Lean Codes (e.g., P0171, P0174):** These codes often indicate too much air

in the fuel mixture, frequently caused by a vacuum leak. A faulty or improperly installed throttle body gasket is a prime suspect.

- **Hissing Sound from Engine Bay:** A distinct hissing sound, especially when the engine is running, can indicate air escaping or being drawn into the intake system through a compromised seal.
- **Reduced Engine Performance or Fuel Economy:** An unsealed throttle body can disrupt the air-fuel ratio, leading to decreased power and increased fuel consumption.

If troubleshooting does not resolve the issue, it is recommended to consult a professional automotive technician for diagnosis and repair.

7. SPECIFICATIONS

Specification	Detail
Brand	Fel-Pro
Model Number	61048
Material	Rubber
Color	Factory
Item Weight	0.64 ounces
UPC	084113800900
Global Trade Identification Number	00084113800900
First Available Date	November 11, 2006

8. WARRANTY INFORMATION

Specific warranty details for the FEL-PRO 61048 Throttle Body Gasket are subject to the manufacturer's terms and conditions. For comprehensive warranty information, including coverage period and claims procedures, 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.

9. SUPPORT

For technical assistance, product inquiries, or further support regarding your FEL-PRO 61048 Throttle Body Gasket, please contact Fel-Pro customer service. You can typically find contact information, including phone numbers and online support portals, on the official Fel-Pro website ([Visit the Fel-Pro Store on Amazon](#) or search for Fel-Pro's official corporate website). When contacting support, please have your product model number (61048) and any relevant vehicle information readily available.