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› Standard Motor Products FPD6 Pressure Regulator Instruction Manual

Standard Motor Products FPD6

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Model: **FPD6** | Brand: **Standard Motor Products**

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products FPD6 Pressure Regulator. The FPD6 is designed as a replacement part for motor vehicles, focusing on fuel system applications. Standard Motor Products, established in 1919, is a leading manufacturer and distributor of automotive aftermarket replacement parts, ensuring high quality and application-specific design.

PRODUCT CONTENTS

Upon opening the package, verify that all components are present and undamaged. The package should contain:

- One (1) Standard Motor Products FPD6 Fuel Pressure Regulator



Figure 1: Main view of the Standard Motor Products FPD6 Pressure Regulator. This image shows the overall design of the regulator, including the threaded connection and the pressure diaphragm housing.

INSTALLATION GUIDELINES

Installation of fuel system components should be performed by a qualified automotive technician. Improper installation can lead to fuel leaks, engine damage, or fire hazards. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

1. **Safety First:** Disconnect the vehicle's battery. Relieve fuel system pressure before beginning any work. Ensure adequate ventilation and have a fire extinguisher readily available.
2. **Locate the Old Regulator:** Identify the existing fuel pressure regulator on your vehicle. Note its orientation and connections.
3. **Remove Old Regulator:** Carefully disconnect fuel lines and electrical connectors (if applicable). Remove mounting bolts. Be prepared for residual fuel spillage.
4. **Inspect Mounting Area:** Clean the mounting surface and inspect for any damage or debris. Ensure new gaskets or O-rings are used as specified by the vehicle manufacturer.
5. **Install New Regulator:** Position the FPD6 regulator correctly. Hand-tighten mounting bolts initially.
6. **Torque Specifications:** Tighten mounting bolts to the vehicle manufacturer's specified torque. *Over-tightening or under-tightening can lead to component failure or leaks.*
7. **Reconnect:** Reconnect fuel lines and electrical connectors securely. Double-check all connections.
8. **Leak Check:** Reconnect the battery. Turn the ignition to the "ON" position (without starting the engine) to prime the fuel system. Inspect all connections for leaks immediately. Start the engine and re-check for leaks.

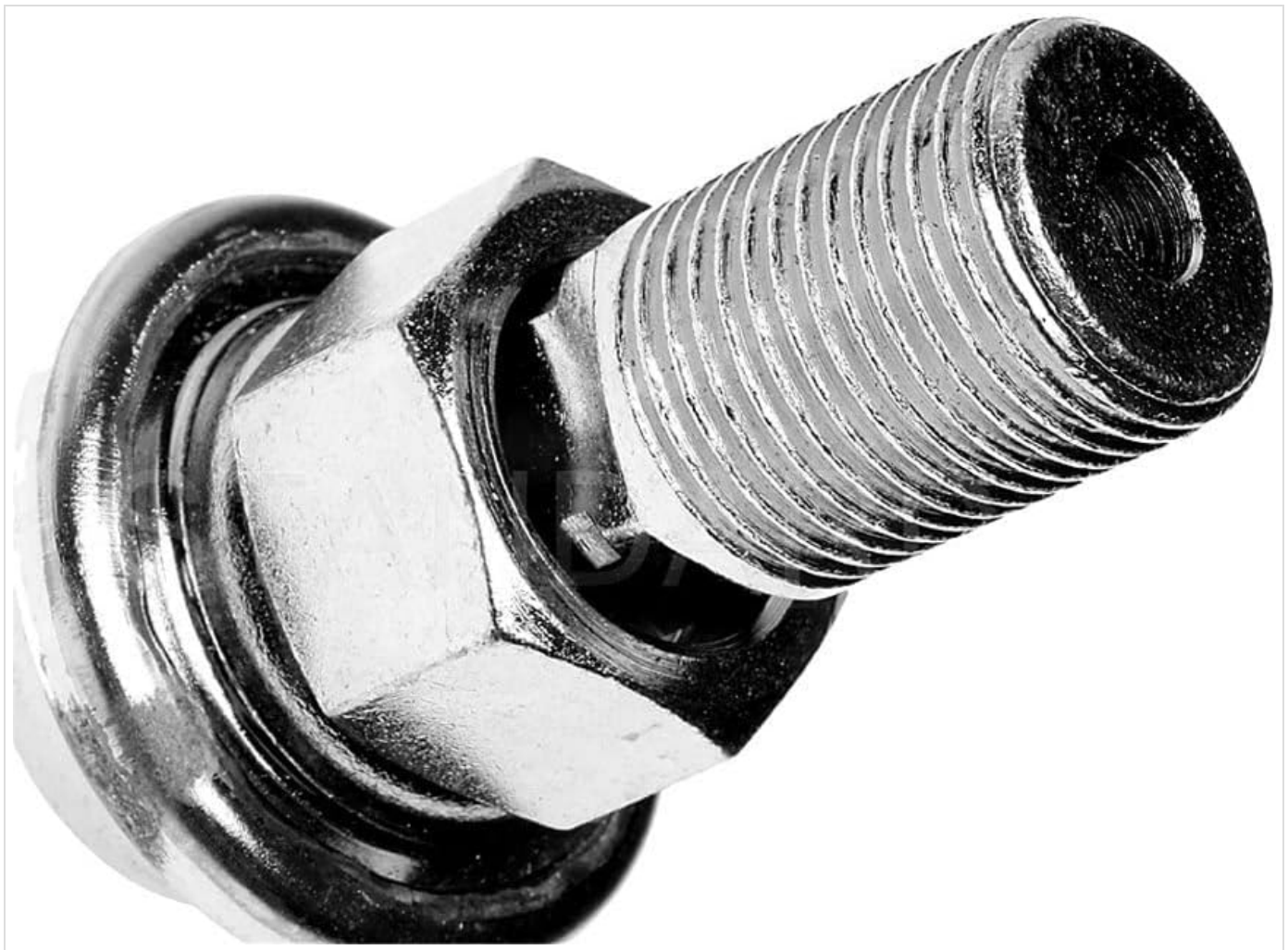


Figure 2: Close-up view of the threaded connection on the Standard Motor Products FPD6 Pressure Regulator. This part connects directly into the fuel rail or manifold, requiring precise torque for a secure, leak-free seal.

The FPD6 features a robust engineering design intended to provide greater resistance to leakage when properly installed. Its application-specific design ensures the proper fit and form for compatible vehicles.

OPERATING PRINCIPLES

A fuel pressure regulator is a critical component in a vehicle's fuel injection system. Its primary function is to maintain a consistent fuel pressure within the fuel rail, ensuring that the fuel injectors receive fuel at the correct pressure for optimal engine performance and fuel atomization. The FPD6 operates mechanically, adjusting fuel flow based on engine vacuum or manifold pressure to regulate the pressure delivered to the injectors. Excess fuel is returned to the fuel tank.

MAINTENANCE

Fuel pressure regulators are generally designed for long service life and do not require routine maintenance. However, it is advisable to include a visual inspection of the regulator and its connections during regular vehicle maintenance checks. Look for any signs of fuel leaks, corrosion, or physical damage. If any issues are observed, professional inspection and replacement may be necessary.

TROUBLESHOOTING

Symptoms of a failing fuel pressure regulator can include:

- Engine misfires or rough idling

- Difficulty starting the engine
- Reduced fuel economy
- Black smoke from the exhaust (rich fuel mixture)
- Fuel smell or visible fuel leaks

If you experience any of these symptoms, it is recommended to have your vehicle diagnosed by a certified mechanic. Diagnosis typically involves checking fuel pressure with a specialized gauge and inspecting the regulator for external damage or leaks.

TECHNICAL SPECIFICATIONS

Attribute	Value
Brand	Standard Motor Products
Model	FPD6
Fit Type	Vehicle Specific Fit
Item Dimensions (L x W x H)	2 x 1.44 x 3.38 inches
Item Weight	0.01 Ounces
Style	Piston
Auto Part Position	Inside
Body Material	Alloy Steel
Operation Mode	Mechanical
Product Grade	Replacement Part
UPC	091769854294
Manufacturer Part Number	FPD6

WARRANTY AND SUPPORT

Specific warranty details for the Standard Motor Products FPD6 Pressure Regulator are not provided within this manual. For information regarding warranty coverage, technical support, or replacement parts, please contact Standard Motor Products directly through their official website or customer service channels. Always retain your proof of purchase for warranty claims.

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