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Delphi FP10575

Delphi FP10575 Fuel Pressure Regulator User Manual

Model: FP10575 | Brand: Delphi

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Delphi FP10575 Fuel Pressure Regulator. Delphi brings 154 years of OE experience, supplying top automakers, ensuring OE heritage and knowledge are built into every aftermarket part.

A fuel pressure regulator is a critical component in a vehicle's fuel injection system, designed to maintain a consistent fuel pressure to the injectors. This ensures optimal fuel delivery for efficient engine performance and combustion.

PRODUCT OVERVIEW

The Delphi FP10575 Fuel Pressure Regulator is engineered for precision and durability. Key features include:

- **Precisely manufactured internal components:** Internal valves, diaphragms, and springs are designed for excellent performance across all engine operating conditions.
- **Quiet operation:** Engineered to operate without audible regulator noise.
- **Robust diaphragm materials:** Ensures longer life, improved durability, and compatibility with a wide range of fuel types.
- **Consistent fuel pressure:** Provides predictable fuel pressure throughout the system's control range, contributing to great drivability.



Image: Angled view of the Delphi FP10575 Fuel Pressure Regulator, showcasing its overall metallic construction and mounting bracket.



Image: Top-down view of the Delphi FP10575 Fuel Pressure Regulator, showing the central opening and surrounding components.





Image: Side view of the Delphi FP10575 Fuel Pressure Regulator, highlighting the connection point with a visible green O-ring for sealing.

SETUP AND INSTALLATION

Contents of the Box:

- 1 x Delphi FP10575 Fuel Pressure Regulator

General Installation Guidelines:

Installation of automotive fuel system components requires specialized knowledge and tools. It is highly recommended that this product be installed by a qualified automotive technician.

1. **Safety First:** Ensure the vehicle's battery is disconnected and the fuel system is depressurized before beginning any work. Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
2. **Locate the Existing Regulator:** Identify the current fuel pressure regulator on your vehicle. Consult your vehicle's service manual for its exact location and removal procedure.
3. **Remove Old Regulator:** Carefully disconnect fuel lines and electrical connectors (if present). Remove mounting bolts and extract the old regulator. Be prepared for residual fuel leakage.
4. **Inspect and Clean:** Inspect the mounting area and fuel lines for any damage or debris. Clean as necessary.
5. **Install New Regulator:** Position the Delphi FP10575 regulator, ensuring all seals and O-rings are correctly seated. Secure with mounting bolts. Reconnect fuel lines and electrical connectors.

6. **Check for Leaks:** After installation, reconnect the battery. Turn the ignition to the "ON" position (without starting the engine) to allow the fuel pump to prime the system. Carefully inspect all connections for fuel leaks.
7. **Test Operation:** Start the engine and monitor fuel pressure (if equipped with a gauge) and engine performance.



Image: Front view of the Delphi FP10575 Fuel Pressure Regulator, highlighting the mounting points and fuel inlet/outlet.

The Delphi FP10575 Fuel Pressure Regulator operates by maintaining a constant pressure differential across the fuel injectors. This is achieved by regulating the amount of fuel returned to the fuel tank. When engine vacuum changes, the regulator adjusts to ensure the fuel pressure remains consistent relative to the intake manifold pressure, allowing the engine control unit (ECU) to accurately calculate fuel injection duration.

The robust design ensures quiet operation and consistent fuel pressure, which is vital for optimal engine performance, fuel efficiency, and reduced emissions.



Image: Side view of the Delphi FP10575 Fuel Pressure Regulator, showing the "2.7 bar" pressure rating stamped on the housing.

MAINTENANCE

Fuel pressure regulators are generally designed for long-term reliability and do not require routine maintenance beyond periodic inspection. However, it is advisable to:

- **Regularly Inspect:** During routine vehicle maintenance, visually inspect the fuel pressure regulator and surrounding fuel lines for any signs of leaks, corrosion, or damage.
- **Check Connections:** Ensure all fuel line connections and electrical connectors (if applicable) are secure and free from debris.
- **Address Symptoms Promptly:** If you notice symptoms of a failing fuel pressure regulator (see Troubleshooting section), have the component inspected and replaced by a qualified technician.

TROUBLESHOOTING

A faulty fuel pressure regulator can lead to various engine performance issues. Below are common symptoms and potential causes:

Symptom	Possible Cause	Action
Engine hard to start (especially when warm)	Fuel pressure bleeding off, faulty check valve in regulator	Check fuel pressure; inspect for leaks; consider regulator replacement.
Rough idle or stalling	Incorrect fuel pressure (too high or too low)	Verify fuel pressure with a gauge; inspect vacuum line to regulator.
Reduced fuel economy	Fuel pressure too high, causing rich mixture	Check fuel pressure; inspect air filter and oxygen sensors.
Black smoke from exhaust	Excessively rich fuel mixture due to high fuel pressure	Check fuel pressure; inspect air filter and oxygen sensors.
Fuel smell or visible leaks	Damaged diaphragm or seals in regulator	Immediately address leaks; replace regulator.

If you experience any of these symptoms, it is recommended to consult a certified automotive technician for diagnosis and repair.

SPECIFICATIONS

Attribute	Detail
Brand	Delphi
Model	FP10575 Regulator
Item Model Number	FP10575
Manufacturer Part Number	FP10575
OEM Part Numbers	158-1165, 22868, 23280-46030, 5G1358, PR497

Attribute	Detail
Item Weight	3.52 ounces
Product Dimensions	2.5 x 2.5 x 3 inches
Exterior Finish	Machined
Date First Available	October 18, 2018

WARRANTY INFORMATION

Please note the specific warranty terms for this product:

Delphi products purchased through, from, or on Amazon do not qualify for Delphi's standard LIMITED warranty. Any warranty on this product, when purchased through, from, or on Amazon, is offered by and is the sole responsibility of the seller identified on the shipment details of your order. Please review all warranties carefully and contact the identified seller for all warranty details and claims.

CUSTOMER SUPPORT

For technical assistance, installation questions, or warranty claims, please contact the seller from whom you purchased this product. Refer to your order details for seller information.

For general information about Delphi products, you may visit the official Delphi store on Amazon [Delphi Store](#).