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Delphi FG1189

Delphi FG1189 Fuel Module Instruction Manual

This manual provides essential information for the proper installation, operation, and maintenance of your Delphi FG1189 Fuel Module.

PRODUCT OVERVIEW

The Delphi FG1189 Fuel Module is an essential component designed to restore fast-pressure performance and system integrity to your vehicle's fuel system. As a leading OE supplier, Delphi incorporates extensive innovations in fuel module and pump design.

Key Features:

- Built to OE standards for enhanced durability and reduced failure rates.
- Accurate fuel gauge reading ensured by matching OE specifications for empty float height and float retention.
- Lower amperage draw places less load on the vehicle's electrical system.
- Validated, tested, and precisely matched for specific vehicle applications.



Overall view of the Delphi FG1189 Fuel Module.

SAFETY FIRST

Before beginning any work on the fuel system, it is crucial to observe the following safety precautions to prevent injury or damage:

- Have a fire extinguisher nearby.
- Never smoke or work near anything that could cause a spark or ignite fuel, such as pilot lights and incandescent light bulbs.
- Always wear safety glasses, and gloves are recommended.
- Work in a well-ventilated area. Keep clean-up materials on hand, and clean up any spills immediately.
- Always relieve fuel pressure prior to opening fuel systems. Releasing fuel under pressure can cause fire and injury.

- Store fuel in an approved container like a gas caddy or gas can.

SETUP AND INSTALLATION

This section details the initial setup and installation steps for the Delphi FG1189 Fuel Module.

Connecting the Float Arm

The float arm may be packaged separately to prevent damage to the fuel sending unit during shipping. Follow these steps to attach it:

1. Take the float arm and insert the wire end into the sending unit.
2. Support both pieces (the fuel module and the float arm).
3. Push down firmly until you hear an audible snap, indicating it is securely in place.



Side view of the Delphi FG1189 Fuel Module with the float arm correctly attached.

Installation Video: Connecting the Float Arm

Your browser does not support the video tag.

This video demonstrates the correct procedure for connecting the float arm to the fuel pump module. It highlights the importance of securing the float arm to ensure accurate fuel level readings.

General Installation Notes

Ensure the fuel tank is clean before installing the new module. Refer to your vehicle's service manual for specific removal and installation procedures. Always confirm all electrical and fuel line connections are secure and free from leaks.



Close-up view of the electrical connector on the fuel module, showing pin configuration.

OPERATING PRINCIPLES

The Delphi FG1189 Fuel Module is designed to deliver fuel from the tank to the engine at the correct pressure and volume. It integrates the fuel pump, fuel filter, fuel level sending unit, and often a pressure regulator into a single assembly.

- The electric fuel pump draws fuel from the tank and sends it to the engine.

- An integrated fuel filter removes contaminants from the fuel, protecting engine components.
- The fuel level sending unit, with its float arm, accurately measures the fuel level and transmits this information to the vehicle's fuel gauge.
- The module ensures consistent fuel flow and pressure for optimal engine performance and efficiency.

MAINTENANCE

Proper maintenance, especially ensuring a clean fuel tank, is vital for the longevity and performance of your Delphi FG1189 Fuel Module.

Fuel Tank Cleaning Procedure

A dirty fuel tank can introduce contaminants that shorten the life of your fuel pump. Follow these steps for a thorough cleaning:

1. **Preparation:** Ensure a fire extinguisher is nearby. Work in a well-ventilated area. Wear safety glasses and gloves. Relieve fuel pressure before opening the fuel system.
2. **Remove Old Pump:** Carefully remove the old fuel pump module from the tank.
3. **Drain Fuel:** Safely drain any remaining fuel from the tank into an approved container.
4. **Initial Cleaning:** Remove most dirt and debris from the tank.
5. **Thorough Cleaning:** Use a shop vacuum to remove remaining debris.
6. **Drying:** Use compressed air to completely dry the tank.
7. **Soap and Water Wash:** Wash the inside of the tank with soap and water to remove any lingering contaminants.
8. **Rinse:** Rinse thoroughly with clean water.
9. **Final Drying:** Dry completely with compressed air and allow to air dry for at least 30 minutes to ensure all water is evaporated.

Maintenance Video: How To Clean Your Fuel Tank

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This video provides a step-by-step guide on how to properly clean a fuel tank, which is essential before installing a new fuel module to prevent premature failure.

TROUBLESHOOTING COMMON ISSUES

If you experience issues after installing the Delphi FG1189 Fuel Module, consider the following:

- **Extended Crank Time / Difficulty Starting** This can indicate a problem with the fuel system not holding pressure. Ensure all connections are secure and the module is correctly seated.
- **Inaccurate Fuel Gauge Reading:** Verify the float arm was correctly attached and is moving freely within the tank.
- **Engine Stalling or Misfiring:** Check for proper fuel pressure and flow. Ensure there are no blockages in the fuel lines or filter.
- **Electrical Issues:** Confirm all electrical connections to the module are clean and secure. The module is designed for lower amperage draw, so excessive current draw could indicate a fault.

For complex issues or if the problem persists, it is recommended to consult a qualified automotive technician.

PRODUCT SPECIFICATIONS

Feature	Detail
Brand	Delphi
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Car, Truck
Material	Metal, Plastic
Style	Piston
Auto Part Position	Front
Inlet Connection Type	Hose Barb
Gas Type	Gasoline
Mounting Type	Front Mount
Operation Mode	Mechanical
Product Grade	New
Global Trade Identification Number	00689604231630
OEM Part Number	31110-1U500, 35301-1U500, A30452, DFG1189, E9030M, P76775M, SP3043M
Manufacturer	Delphi
UPC	689604231630
Model	FG1189
Item model number	FG1189
Exterior	Machined
Manufacturer Part Number	FG1189
ASIN	B00MBHZYN8
Date First Available	August 1, 2014

Dimensions and Weight

- Item Weight: 3 Pounds
- Product Dimensions: 15.7 x 8.3 x 8.3 inches

What's in the Box

- Fuel Pump Module Assembly

WARRANTY AND SUPPORT

Warranty Information

Delphi products purchased through, from, or on Amazon do not qualify for Delphi's standard LIMITED warranty. When purchased through, from, or on Amazon, any warranty on this product 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 further assistance or technical inquiries regarding your Delphi FG1189 Fuel Module, please visit the official Delphi Store on Amazon: [Delphi Store](#).