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Delphi FG2001

Delphi FG2001 Fuel Module User Manual

Brand: Delphi | Model: FG2001

1. PRODUCT OVERVIEW

The Delphi FG2001 Fuel Module is an essential component designed to restore optimal fuel delivery performance and system integrity in compatible vehicles. As a product from a leading OE supplier, this fuel module incorporates advanced design features to ensure efficient fuel pumping with reduced energy consumption. Key features include internal springs for enhanced durability, a lower amperage draw to minimize load on the vehicle's electrical system, and a large volume reservoir to manage low-fuel conditions and vehicle cornering effectively. It also features gold-filled fuel-level sensors for improved resistance against debris and wear, ensuring consistent fuel flow and extended pump life. The module is designed for superior performance, durability, and ease of installation, matching OE specifications.



Figure 1.1: Main view of the Delphi FG2001 Fuel Module, showcasing its complete assembly including the pump, housing, and fuel level sender.

2. SETUP AND INSTALLATION

Installation of the Delphi FG2001 Fuel Module requires specialized tools and knowledge of automotive fuel systems. It is

highly recommended that installation be performed by a qualified professional mechanic to ensure proper function and safety. Incorrect installation can lead to fuel leaks, system malfunctions, or other hazards.

2.1 Pre-Installation Checks

- **Verify Compatibility:** Ensure the FG2001 module is the correct part for your specific vehicle make, model, and year. Refer to your vehicle's service manual or a reputable parts catalog.
- **Inspect Packaging:** Before opening, inspect the product packaging for any signs of damage.
- **Component Inspection:** Carefully unbox the fuel module and inspect all components for any visible damage or missing parts. Ensure the O-ring and fuel level float are present and undamaged.



Figure 2.1: The Delphi FG2001 Fuel Module shown with its accompanying O-ring gasket and fuel level float, essential components for proper installation and function.

2.2 Installation Procedure (General Guidelines)

Note: These are general guidelines. Always consult your vehicle's specific service manual for detailed, step-by-step instructions.

1. **Safety First:** Disconnect the vehicle's battery. Ensure the work area is well-ventilated and free from ignition sources. Wear appropriate personal protective equipment (PPE).
2. **Depressurize Fuel System:** Safely relieve fuel system pressure according to vehicle manufacturer specifications.
3. **Access Fuel Tank:** Depending on the vehicle, this may involve lowering the fuel tank or accessing it from under the rear seat/trunk.
4. **Disconnect Fuel Lines and Electrical Connectors:** Carefully disconnect all fuel lines and electrical connectors from the old fuel module. Be mindful of residual fuel.
5. **Remove Old Module:** Remove the retaining ring or bolts securing the old fuel module. Carefully extract the old module from the fuel tank.
6. **Clean Fuel Tank:** It is crucial to thoroughly clean the inside of the fuel tank to remove any debris, rust, or contaminants that could shorten the life of the new fuel module.
7. **Install New Module:** Install the new Delphi FG2001 Fuel Module, ensuring the new O-ring is properly seated. Secure the retaining ring or bolts.
8. **Reconnect:** Reconnect all fuel lines and electrical connectors. Ensure connections are secure and free of leaks.
9. **Test System:** Reconnect the battery. Cycle the ignition several times without starting the engine to prime the fuel system. Check for any fuel leaks. Start the engine and verify proper operation.

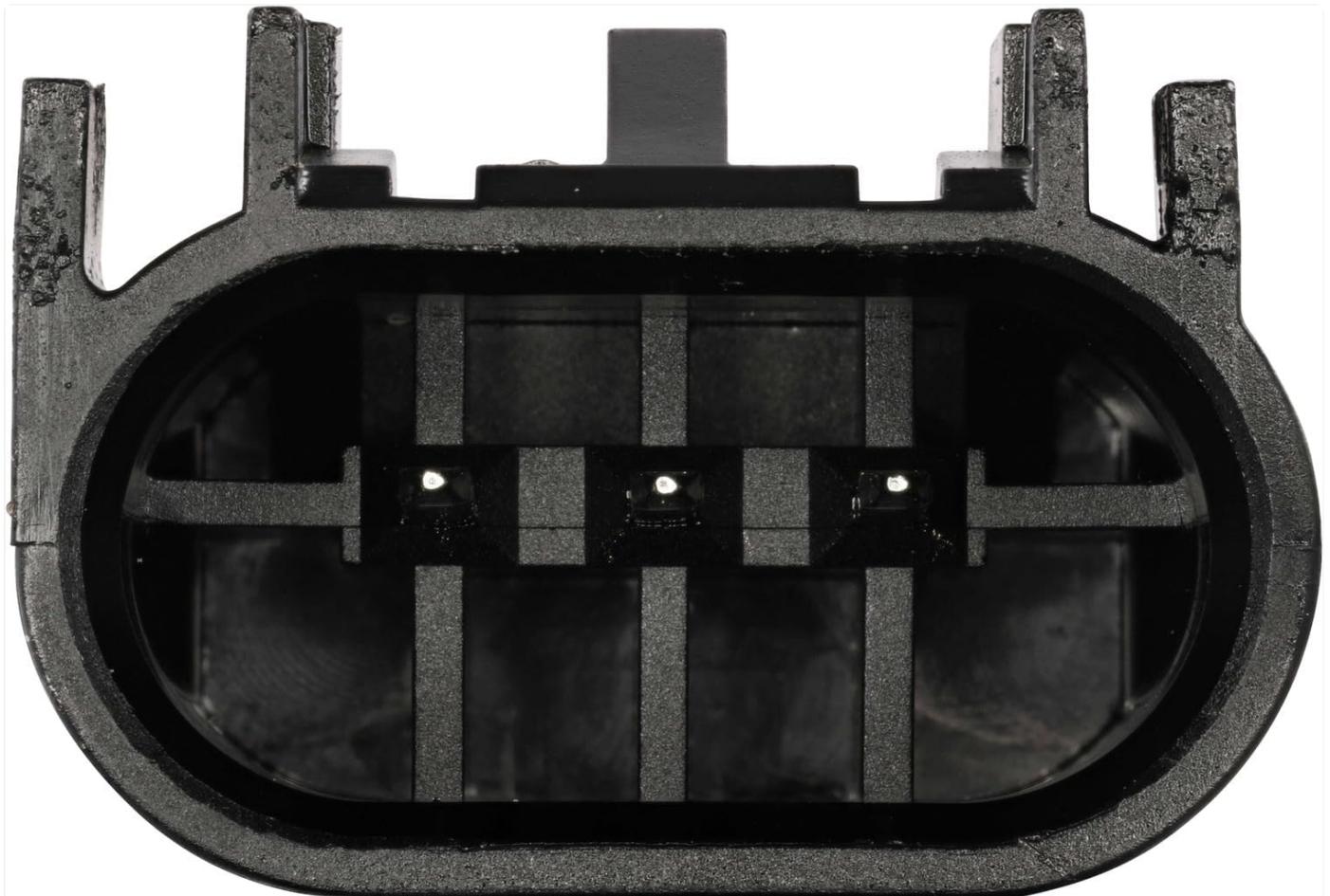


Figure 2.2: A detailed view of the electrical connector on the Delphi FG2001 Fuel Module, highlighting the robust design for secure electrical connection.

3. OPERATING PRINCIPLES

The Delphi FG2001 Fuel Module operates as an integral part of your vehicle's fuel delivery system. Once installed, it functions automatically to supply fuel from the tank to the engine at the correct pressure and volume. The module integrates the fuel pump, fuel filter, fuel level sender, and often a pressure regulator into a single unit, simplifying the fuel system and enhancing reliability.

- **Fuel Pumping:** The electric fuel pump within the module draws fuel from the tank and sends it under pressure through the fuel lines to the engine's fuel injectors.
- **Fuel Filtration:** An integrated filter removes contaminants from the fuel before it reaches the engine, protecting sensitive fuel system components.
- **Fuel Level Sensing:** The fuel level sender (float arm) accurately measures the amount of fuel in the tank and sends this information to the vehicle's fuel gauge.
- **Pressure Regulation:** The module helps maintain consistent fuel pressure, which is critical for optimal engine performance and fuel efficiency.



Figure 3.1: Top view of the Delphi FG2001 Fuel Module, showing the fuel lines and electrical connections that interface with the vehicle's fuel system.

4. MAINTENANCE

The Delphi FG2001 Fuel Module is designed to be a maintenance-free component under normal operating conditions. However, the overall health of your vehicle's fuel system directly impacts the longevity and performance of the fuel module.

4.1 Recommended Practices

- **Maintain Fuel Quality:** Always use high-quality, clean fuel. Contaminated fuel is a primary cause of fuel pump failure.
- **Keep Fuel Tank Full:** Avoid consistently running your vehicle on a very low fuel level. The fuel helps cool and lubricate the fuel pump motor.
- **Regular Vehicle Maintenance:** Adhere to your vehicle manufacturer's recommended service intervals for fuel system checks and related components.
- **Fuel Filter (if external):** If your vehicle has an external fuel filter separate from the module, ensure it is replaced according to the manufacturer's schedule.

5. TROUBLESHOOTING

If you experience issues with your vehicle's fuel delivery after installing the Delphi FG2001 Fuel Module, consider the following common troubleshooting steps. Due to the complexity and safety risks associated with fuel systems, it is strongly advised to seek professional diagnosis and repair.

Symptom	Possible Cause	Action
Engine Cranks but Won't Start	No fuel pressure, clogged fuel filter, electrical issue to pump.	Check fuel pressure. Verify electrical connection to fuel module. Inspect fuel lines for kinks.
Rough Idle or Stalling	Insufficient fuel pressure, contaminated fuel, air in fuel system.	Check fuel pressure. Ensure fuel tank is clean. Bleed air from system if applicable.
Poor Acceleration or Loss of Power	Restricted fuel flow, weak fuel pump.	Check fuel pressure under load. Inspect fuel filter.
Inaccurate Fuel Gauge Reading	Faulty fuel level sender, wiring issue.	Inspect fuel level sender wiring and connections.

If these basic checks do not resolve the issue, it is imperative to consult a certified automotive technician for a comprehensive diagnosis and repair.

6. SPECIFICATIONS

Key technical specifications for the Delphi FG2001 Fuel Module:

Brand: Delphi

Model: FG2001 (Fuel Pump Module Assembly)

Fit Type: Vehicle Specific Fit

Vehicle Service Type: Car, Truck

Material: Aluminum (Body Material)

Item Weight: Approximately 4.56 pounds (2.07 kg)

Product Dimensions (L x W x H): 8.25 x 8.25 x 15.69 inches (20.96 x 20.96 x 39.85 cm)

Operation Mode: Mechanical

Mounting Type: Tank Mount

Gas Type: Gasoline

OEM Part Numbers: E4015M, M100070, MU2174, MU2250, 19211044, 19260075, 19301235, 19352772, DFG2001, SP6683M

7. WARRANTY INFORMATION

Please note the following regarding warranty coverage for the Delphi FG2001 Fuel Module:

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. It is crucial to review all warranty details carefully and contact the identified seller for any warranty-related inquiries or claims.

8. SUPPORT AND ASSISTANCE

For technical support, installation guidance, or troubleshooting beyond the scope of this manual, it is recommended to:

- **Contact the Seller:** Reach out to the seller from whom you purchased the Delphi FG2001 Fuel Module for product-specific support and warranty claims.
- **Consult a Professional Mechanic:** For complex installation issues, diagnosis of vehicle problems, or repairs, always consult a certified automotive technician.
- **Refer to Vehicle Service Manual:** Your vehicle's official service manual contains detailed information specific to your car's fuel system and components.

