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› Dorman 601-130 Fuel Pump Driver Module User Manual

## Dorman 601-130

# Dorman 601-130 Fuel Pump Driver Module User Manual

Brand: **Dorman** | Model: **601-130**

## 1. INTRODUCTION

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The Dorman 601-130 Fuel Pump Driver Module is an OE FIX replacement part designed for select Cadillac, Chevrolet, and GMC models. This module addresses common issues such as hard starting, engine stalling, or poor running conditions that can be caused by a failing original fuel pump driver module. Unlike some factory replacements, the Dorman 601-130 comes pre-programmed, simplifying the installation process and eliminating the need for expensive calibration or programming.

It features an upgraded design with a thermal- and vibration-tested backing plate and enhanced active electronic components, contributing to increased reliability and durability. This manual provides essential information regarding the module's features, installation considerations, and general operational principles.



Figure 1: Top view of the Dorman 601-130 Fuel Pump Driver Module, showing the main connector and "NO PROGRAMMING REQUIRED" label.

## 2. SETUP AND INSTALLATION CONSIDERATIONS

The Dorman 601-130 Fuel Pump Driver Module is engineered for a straightforward replacement process. A key advantage of this OE FIX module is that it is **pre-programmed**, meaning it does not require additional calibration or programming after installation, which can save significant time and cost.

### 2.1 Vehicle Compatibility

Before installation, it is crucial to confirm that this module is compatible with your specific vehicle make, model, and year. Refer to the product's compatibility information or use a vehicle fitment tool to ensure proper application. Incorrect fitment can lead to operational issues.

### 2.2 Installation Notes

- Ensure the vehicle's battery is disconnected before beginning any electrical component replacement.
- Locate the existing fuel pump driver module on your vehicle. This module is a direct replacement for the original equipment.
- Carefully remove the old module and install the Dorman 601-130, ensuring all electrical connections are secure and properly seated.
- The module's housing is designed to be thermal- and vibration-tested, and it includes a powder-coated aluminum backing plate for enhanced corrosion resistance.

## Pre-programmed for faster and easier installation

Thermal- and vibration-tested housing

Powder-coated backing plate increases corrosion resistance

Enhanced microcontroller and new active electronic components for increased reliability



Figure 2: Illustration highlighting the upgraded design features of the Dorman 601-130, including the pre-programmed nature, thermal- and vibration-tested housing, powder-coated backing plate, and enhanced microcontroller.

### 3. OPERATING PRINCIPLES

The Fuel Pump Driver Module (FPDM) plays a critical role in your vehicle's fuel delivery system. It is responsible for regulating the voltage supplied to the fuel pump, thereby controlling fuel pressure and flow. This precise control ensures optimal engine performance and fuel efficiency.

When the original FPDM fails, it can lead to various symptoms, including difficulty starting the vehicle, engine stalling, or general poor engine performance. The Dorman 601-130, with its enhanced microcontroller and new active electronic components, provides reliable regulation of the fuel pump, restoring proper fuel delivery and resolving these common issues.

### 4. MAINTENANCE

The Dorman 601-130 Fuel Pump Driver Module is designed to be a maintenance-free component once installed. Its robust construction, featuring a thermal- and vibration-tested housing and a powder-coated aluminum backing plate, is engineered for

long-term durability and resistance to environmental factors.

No routine maintenance, such as cleaning or lubrication, is required for the module itself. If you suspect any issues with the module after installation, refer to the troubleshooting section or consult a qualified automotive technician.

## 5. TROUBLESHOOTING

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This section provides guidance for common issues that may arise, particularly if symptoms persist after replacing a faulty fuel pump driver module.

### 5.1 Common Symptoms of a Failing FPDM (Addressed by this Module)

- Difficulty starting the vehicle.
- Engine stalling unexpectedly.
- Poor engine performance (e.g., hesitation, rough idling).
- Check engine light illuminated with fuel system-related diagnostic trouble codes (DTCs).

### 5.2 Post-Installation Issues

If you continue to experience fuel delivery issues after installing the Dorman 601-130, consider the following:

1. **Verify Compatibility:** Double-check that the module is indeed the correct part for your specific vehicle's year, make, and model. Refer to the product's fitment guide.
2. **Inspect Connections:** Ensure all electrical connectors are fully seated and free from corrosion or damage. A loose connection can prevent proper operation.
3. **Check Other Components:** While the FPDM is a common failure point, other components in the fuel system (e.g., fuel pump, fuel filter, fuel pressure sensor) or electrical system (e.g., wiring, relays) could also be at fault.
4. **Professional Diagnosis:** If issues persist, it is recommended to have the vehicle diagnosed by a qualified automotive technician. They can perform advanced diagnostics to pinpoint the exact cause of the problem.

## 6. SPECIFICATIONS

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Attribute	Detail
Brand	Dorman
Model Number	601-130
Fit Type	Vehicle Specific Fit
Vehicle Service Type	Truck
Dimensions (L x W x H)	11 x 5 x 3.15 inches
Material	Aluminum
Item Weight	1.24 pounds (0.56 Kilograms)
Style	Piston
Specification Met	OE
Auto Part Position	Front
Outlet Connection Type	Barb

<b>Inlet Connection Type</b>	Threaded
<b>Connector Type</b>	NPT
<b>Gas Type</b>	Gasoline
<b>Mounting Type</b>	Front Mount
<b>Operation Mode</b>	Electronic
<b>Product Grade</b>	Replacement Part
<b>OEM Part Number(s)</b>	6H1481; FPM103; 13516496; 13579380; 20964305
<b>Manufacturer</b>	Dorman Products
<b>UPC</b>	194883220027
<b>Date First Available</b>	February 8, 2022

## 7. WARRANTY AND SUPPORT

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Dorman products are known for their trustworthy quality, backed by a team of product experts in the United States and over a century of automotive experience. For specific warranty details pertaining to the Dorman 601-130 Fuel Pump Driver Module, please refer to the official Dorman product documentation or contact Dorman customer support directly.

For technical assistance or inquiries, it is recommended to visit the official Dorman website or contact their customer service department. Always provide your product model number (601-130) and vehicle information when seeking support.



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This manual is for informational purposes only. Always consult a qualified professional for vehicle repairs.