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Dorman 904-194

Dorman 904-194 Diesel Glow Plug Relay User Manual

Model: **904-194** | Brand: **Dorman**

1. Product Overview

The Dorman 904-194 Diesel Glow Plug Relay is a direct replacement component designed to regulate the electrical current supplied to a vehicle's glow plugs. This relay is engineered to match the fit and function of the original equipment on specified Ford models, ensuring reliable performance and a long service life. It is constructed from quality materials and rigorously tested to meet product standards.

What's Included:

- 1 x Dorman 904-194 Diesel Glow Plug Relay

2. Key Features

- **Direct Replacement:** This diesel glow plug relay is designed to match the fit and function of the original relay on specified vehicles.
- **Ideal Solution:** This relay serves as a reliable replacement for an original part that may be damaged or has failed due to fatigue.
- **Durable Construction:** Manufactured from quality components to ensure reliable performance and extended service life.
- **Trustworthy Quality:** Backed by a team of product experts in the United States and over a century of automotive experience.
- **Ensured Fit:** Users are advised to input their vehicle's make, model, and trim level into a compatibility tool to confirm proper fitment.

3. Technical Specifications

Specification	Detail
Brand	Dorman
Model Number	904-194
Item Weight	0.01 ounces
Product Dimensions	3.74 x 2.76 x 3.15 inches
Connector Type	Solder
Contact Material	Brass
Contact Type	Blade (Male Female)
Mounting Type	Plug In Mount
Operation Mode	Automatic
Wattage	1200 Watts
Specification Met	Diesel
UPC	019495356264
OEM Part Numbers	GPR11; RY-525; 1826634C94; 1831646C1; F81Z-12B533-AC

4. Installation Guide

Installation of automotive electrical components should ideally be performed by a qualified mechanic or an individual with experience in vehicle electrical systems. Incorrect installation can lead to damage to the component or the vehicle's electrical system.

4.1. Before Installation

- **Safety First:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent accidental short circuits or electrical shock.
- **Vehicle Compatibility:** Confirm that the Dorman 904-194 relay is compatible with your specific vehicle make, model, and year. Refer to your vehicle's service manual for the exact location of the glow plug relay.
- **Tools Required:** Gather necessary tools such as wrenches, sockets, and a battery terminal wrench.

4.2. Installation Steps (General)

1. Ensure the vehicle is turned off and the negative battery terminal is disconnected.
2. Locate the existing glow plug relay in your vehicle. Its location varies by vehicle model (often in the engine bay or fuse box).
3. Carefully disconnect the electrical connectors and mounting bolts from the old relay. Note the orientation of the connectors.
4. Remove the old glow plug relay.
5. Position the new Dorman 904-194 relay in the same location and secure it with the mounting bolts.

6. Reconnect the electrical connectors to the new relay, ensuring they are firmly seated.
7. Reconnect the vehicle's negative battery terminal.
8. Start the vehicle and check for proper operation of the glow plug system.

5. Operation

The diesel glow plug relay acts as a switch, controlling the power supply to the glow plugs. When the engine is cold, the vehicle's engine control unit (ECU) signals the glow plug relay to activate. The relay then sends electrical current to the glow plugs, heating them to assist in cold starting diesel engines. Once the engine reaches a certain temperature or after a predetermined time, the relay deactivates, cutting power to the glow plugs.

6. Maintenance

The Dorman 904-194 Diesel Glow Plug Relay is designed for long-term reliability with minimal maintenance. However, periodic inspection can help ensure optimal performance:

- **Visual Inspection:** Periodically check the relay and its connections for any signs of corrosion, loose wiring, or physical damage.
- **Clean Connections:** If corrosion is present on the terminals, carefully clean them using a wire brush or terminal cleaner to ensure good electrical contact.
- **Secure Mounting:** Ensure the relay remains securely mounted to prevent vibration-induced damage.

7. Troubleshooting

If you experience issues with your vehicle's glow plug system after installing or while using the Dorman 904-194 relay, consider the following:

- **No Start/Hard Start in Cold Weather:**This is a primary symptom of a faulty glow plug system.
- **Check Connections:** Ensure all electrical connections to the relay are clean, tight, and properly seated.
- **Check Fuses:** Verify that any fuses associated with the glow plug system are intact and not blown. Refer to your vehicle's fuse box diagram.
- **Test Glow Plugs:** A faulty relay might be a symptom, but individual glow plugs could also be bad. Testing the glow plugs themselves is recommended.
- **Diagnostic Scan:** Use an OBD-II scanner to check for diagnostic trouble codes (DTCs) related to the glow plug system.
- **Professional Assistance:** If issues persist, it is recommended to consult a certified automotive technician for diagnosis and repair.

8. Product Images

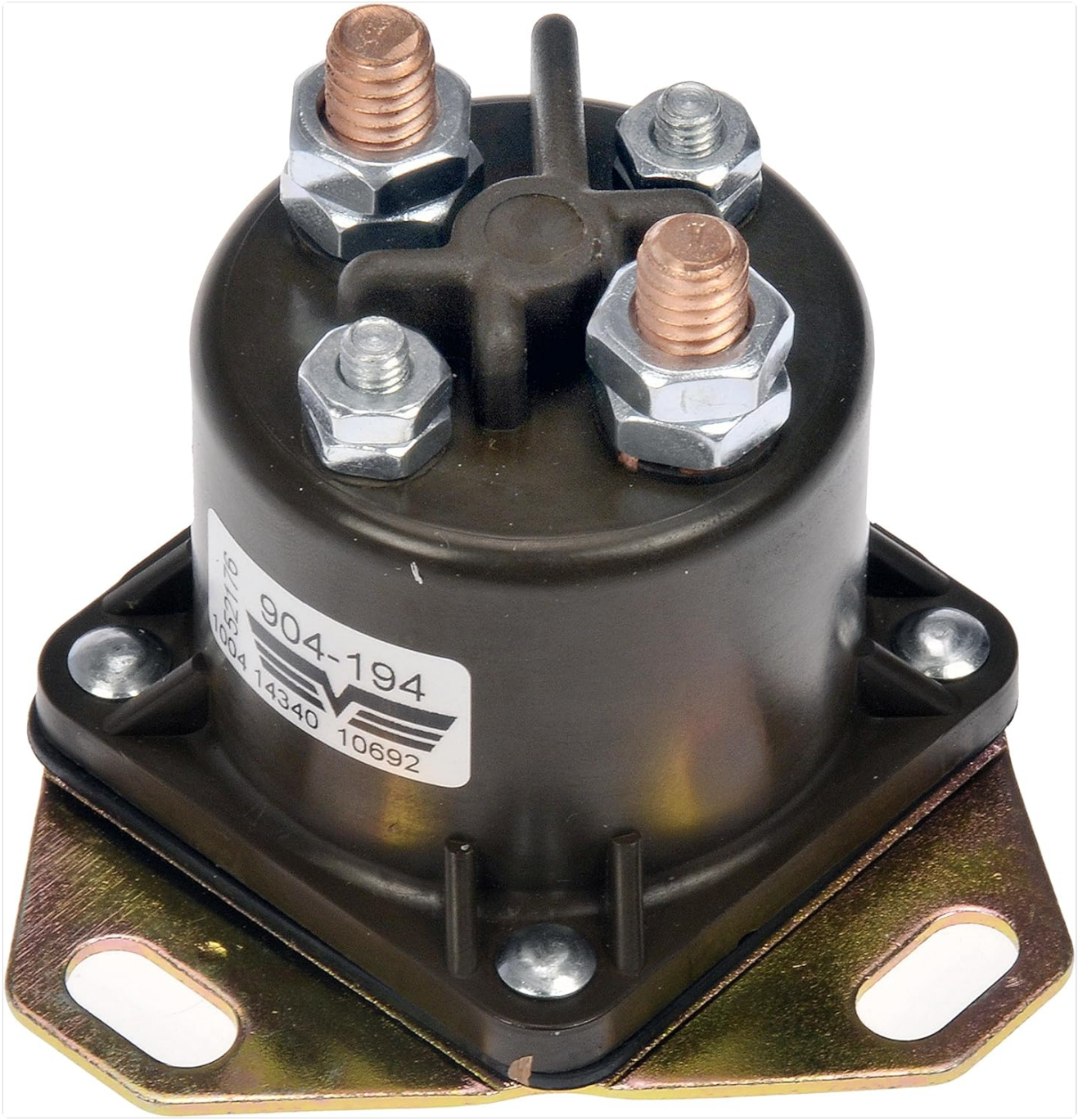


Figure 8.1: Front view of the Dorman 904-194 Diesel Glow Plug Relay, showing the main body and terminal connections.

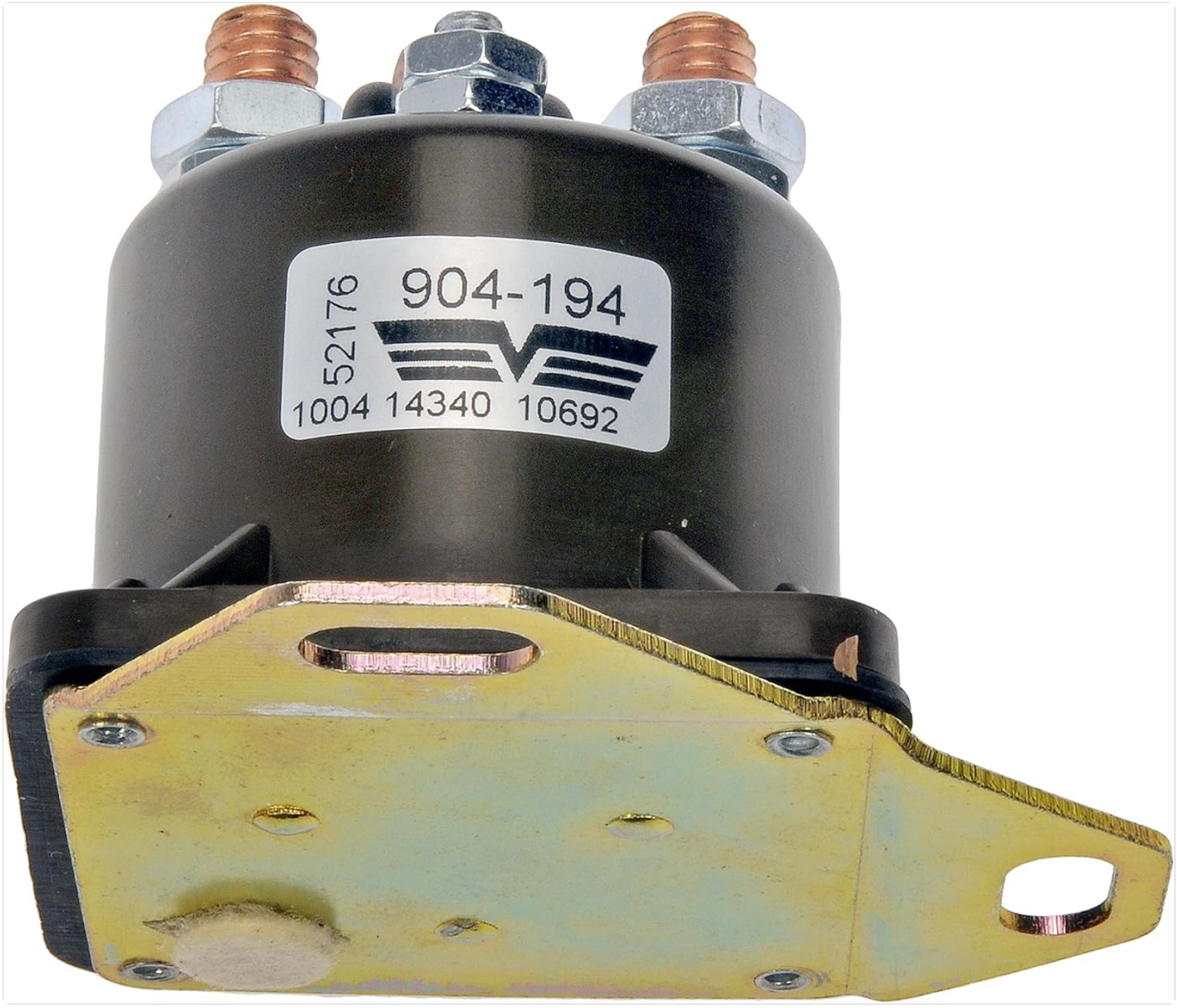


Figure 8.2: Side view of the Dorman 904-194 Diesel Glow Plug Relay, highlighting the mounting bracket and product label.

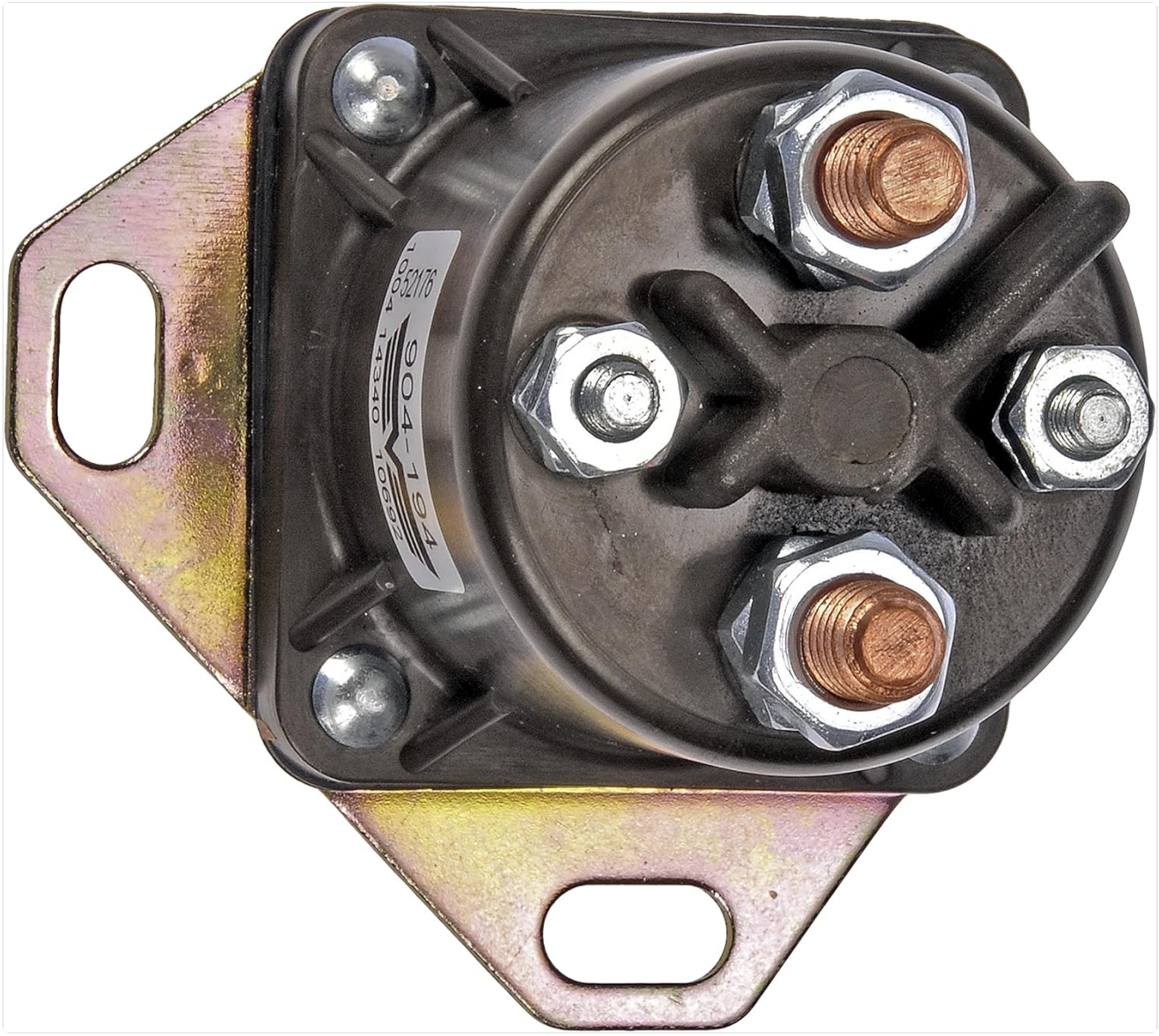


Figure 8.3: Top-down view of the Dorman 904-194 Diesel Glow Plug Relay, showing the arrangement of the four terminal posts.

9. Manufacturer Information

Dorman has been a leading provider of automotive aftermarket solutions for over 100 years. They are committed to giving repair professionals and vehicle owners greater freedom to fix cars and trucks by developing new solutions that save time and money, while increasing convenience and reliability.

For more information about Dorman products and their history, please visit theOfficial Dorman Store on Amazon.

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