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› Standard Motor Products S-869 Fuel System Electrical Connector User Manual

Standard Motor Products S-869

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Model: S-869 | Brand: Standard Motor Products

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Standard Motor Products S-869 Fuel System Electrical Connector. Designed for automotive applications, this connector ensures reliable electrical connections within the vehicle's fuel system. Please read this manual thoroughly before installation to ensure safety and optimal performance.

2. PRODUCT OVERVIEW

The S-869 is a high-quality electrical pigtail connector manufactured by Standard Motor Products. It is designed to provide a secure and durable connection for various components within the fuel system, preventing electrical shorts and ensuring consistent power flow. Its robust construction is engineered for longevity in demanding automotive environments.

2.1 Key Features

- Direct-fit replacement for ease of installation.
- Constructed from high-quality materials for durability.
- Ensures reliable electrical conductivity.
- Designed for fuel system applications.

2.2 Product Images



Figure 1: Overall view of the S-869 electrical connector, showing the black connector body with a green seal and three white wires extending from it.



Figure 2: Front view of the S-869 connector, detailing the internal pin configuration within the black housing and the surrounding green seal.



Figure 3: Side view of the S-869 connector, highlighting the black housing, the green sealing ring, and the wire entry point.

3. SETUP AND INSTALLATION

Installation of the S-869 connector requires basic automotive electrical knowledge and tools. It is recommended that installation be performed by a qualified technician. Always disconnect the vehicle's battery before beginning any electrical work.

3.1 Safety Precautions

- Ensure the vehicle is off and the battery's negative terminal is disconnected.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Avoid working on hot engine components.
- Refer to the vehicle's service manual for specific wiring diagrams and procedures.

3.2 Installation Steps

1. **Identify the old connector:** Locate the existing fuel system electrical connector that needs replacement.
2. **Disconnect:** Carefully disconnect the old connector from its mating component.
3. **Cut and Strip Wires:** Cut the wires of the old connector, leaving enough length to work with. Strip approximately 0.5 inches (1.27 cm) of insulation from the ends of the vehicle's existing wires and the new S-869 connector's wires.
4. **Match Wires:** Carefully match the wires of the new S-869 connector to the vehicle's wiring according to the vehicle's service manual or the original connector's configuration. Incorrect wiring can cause damage.
5. **Secure Connections:** Use appropriate electrical connectors (e.g., crimp connectors, solder and heat shrink) to securely join the wires. Ensure connections are robust and insulated to prevent shorts and corrosion.
6. **Connect New Connector:** Plug the new S-869 connector firmly into its mating component. Ensure it clicks into

place if designed with a locking tab.

7. **Test:** Reconnect the vehicle's battery. Turn the ignition to the "ON" position (do not start the engine immediately) and check for proper function of the connected system. Start the engine and verify full functionality.

4. OPERATING PRINCIPLES

The Standard Motor Products S-869 is a passive electrical component. Once properly installed, its "operation" involves maintaining a continuous and stable electrical pathway between the connected components within the fuel system. It facilitates the transmission of electrical signals and power, ensuring that fuel system sensors, pumps, or other devices receive the necessary current and data to function correctly. There are no user-adjustable settings or active controls for this connector.

5. MAINTENANCE

Proper maintenance ensures the longevity and reliability of your S-869 electrical connector. While the connector itself requires minimal maintenance, periodic inspection is recommended.

- **Visual Inspection:** Periodically inspect the connector and its wiring for signs of wear, fraying, cracking, or corrosion. Look for any discoloration or melting that might indicate overheating.
- **Secure Connection:** Ensure the connector remains firmly seated in its mating component. A loose connection can lead to intermittent electrical issues.
- **Cleanliness:** Keep the connector free from dirt, debris, and moisture. If cleaning is necessary, use an electrical contact cleaner and allow it to dry completely before reconnecting.
- **Avoid Stress:** Ensure the wiring connected to the pigtail is not under excessive tension or routed in a way that could cause chafing or damage.

6. TROUBLESHOOTING

If you experience issues related to the fuel system after installing or using the S-869 connector, consider the following troubleshooting steps:

Symptom	Possible Cause	Solution
Intermittent fuel system component operation	Loose or corroded connection at the S-869 connector.	Inspect the connection for tightness and corrosion. Clean contacts with electrical cleaner if necessary. Ensure wires are securely crimped/soldered.
No power to fuel system component	Open circuit in the wiring or connector. Incorrect wiring.	Check continuity of wires using a multimeter. Verify wiring matches vehicle's diagram. Inspect for broken wires or pins.
Check Engine Light (CEL) related to fuel system	Faulty electrical signal due to poor connection or damaged wire.	Scan for diagnostic trouble codes (DTCs). Address specific codes. Re-inspect all connections and wiring for integrity.
Connector appears melted or discolored	Overheating due to excessive current or poor connection resistance.	Immediately disconnect power. This indicates a serious electrical issue. Consult a professional technician. Replace the connector and investigate the root cause of overheating.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician.

7. SPECIFICATIONS

Attribute	Value
Brand	Standard Motor Products
Model Number	S-869
Connector Type	Pigtail
Item Weight	0.01 Ounces (approx. 0.28 grams)
Product Dimensions (L x W x H)	2.16 x 1.94 x 4.13 inches (approx. 5.49 x 4.93 x 10.49 cm)
Number of Pieces	1
UPC	707390798158
Manufacturer Part Number	S869

8. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Standard Motor Products S-869 connector, please refer to the official Standard Motor Products website or contact their customer service directly. Warranty terms and conditions may vary and are subject to the manufacturer's policies at the time of purchase. Official Brand Website: www.smpcorp.com

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