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Standard Motor Products S789

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Model: S789

1. INTRODUCTION

This user manual provides essential information for the proper installation, operation, and maintenance of the Standard Motor Products S789 Pigtail and Socket. This product is designed as a replacement electrical connector for various automotive applications, ensuring reliable electrical connections for components such as lights or sensors.

Please read this manual thoroughly before attempting any installation or maintenance to ensure safety and optimal performance of the product.

2. SAFETY INFORMATION

Always prioritize safety when working with automotive electrical systems. Failure to follow safety precautions can result in personal injury, electric shock, or damage to the vehicle.

- **Disconnect Power:** Before beginning any work, always disconnect the vehicle's battery to prevent accidental electrical shorts or shocks.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves, to protect against sparks, heat, and sharp objects.
- **Proper Tools:** Use only insulated tools designed for electrical work.
- **Wire Handling:** Ensure all wire connections are secure and properly insulated to prevent short circuits.
- **Ventilation:** If soldering, ensure adequate ventilation to disperse fumes.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. PRODUCT OVERVIEW

The Standard Motor Products S789 is a replacement pigtail and socket assembly. It consists of a durable plastic socket designed to hold a specific type of automotive bulb or component, connected to two electrical wires (pigtail) for integration into the vehicle's wiring harness.



Figure 3.1: The S789 Pigtail and Socket, showing the main socket body with two white wires extending from it. This view highlights the connection points and the overall form factor of the component.



Figure 3.2: An alternative view of the S789 Pigtail and Socket, with the two white wires coiled for compact presentation. This image provides another perspective of the socket's design and the attached wiring.

4. SETUP AND INSTALLATION

Proper installation is crucial for the longevity and performance of the pigtail and socket. Always refer to your vehicle's specific service manual for detailed wiring diagrams and procedures.

4.1. Tools and Materials Required

- Wire strippers
- Wire crimpers (if using crimp connectors)
- Soldering iron and solder (if soldering connections)
- Heat shrink tubing or electrical tape
- Dielectric grease (optional, for moisture protection)
- Multimeter (for testing continuity)
- Safety glasses and gloves

4.2. Installation Steps

1. **Prepare Vehicle:** Ensure the vehicle's ignition is off and the battery's negative terminal is disconnected to prevent electrical

hazards.

2. **Access Old Component:** Locate and carefully remove the existing pigtail and socket assembly that needs replacement. Note the wiring configuration.
3. **Cut and Strip Wires:** Cut the old wires cleanly, leaving enough length to work with. Strip approximately 1/2 inch (1.25 cm) of insulation from the ends of both the vehicle's wires and the new S789 pigtail wires.
4. **Connect Wires:**
 - **Crimping:** Use appropriate crimp connectors (e.g., butt connectors) to join the wires. Ensure a secure, tight connection.
 - **Soldering:** Solder the wires together, ensuring a strong, conductive joint. Allow to cool completely.
5. **Insulate Connections:** Cover all exposed wire connections with heat shrink tubing (applied before connecting and shrunk with a heat gun) or high-quality electrical tape to prevent short circuits and protect against moisture.
6. **Install Socket:** Insert the new S789 socket into its designated housing or mounting point on the vehicle. Ensure it is securely seated.
7. **Apply Dielectric Grease (Optional):** For added protection against corrosion and moisture, apply a small amount of dielectric grease to the bulb contacts within the socket and to any rubber gaskets.
8. **Reconnect Battery:** Once all connections are secure and insulated, reconnect the vehicle's battery.
9. **Test Functionality:** Turn on the vehicle's ignition and test the component connected to the new socket (e.g., turn on headlights if it's a headlight socket) to ensure proper operation.

5. OPERATING PRINCIPLES

The Standard Motor Products S789 Pigtail and Socket is a passive electrical component. Its "operation" is defined by its function within the vehicle's electrical circuit.

- **Electrical Connection:** The primary function of the S789 is to provide a secure and reliable electrical connection between the vehicle's wiring harness and an electrical component, such as a light bulb, sensor, or other accessory.
- **Power Delivery:** It facilitates the flow of electrical current from the vehicle's power source to the connected component, allowing it to function as intended (e.g., illuminating a light).
- **Component Housing:** The socket portion securely holds the component in place, protecting its electrical contacts and ensuring proper alignment for optimal performance.

6. MAINTENANCE

While the S789 Pigtail and Socket is designed for durability, periodic inspection can help ensure its long-term reliability.

- **Visual Inspection:** Periodically inspect the socket and wiring for any signs of corrosion, fraying, cracking, or melting. Look for discoloration around the contacts.
- **Moisture Protection:** If the socket is in an area prone to moisture, consider applying dielectric grease to the bulb contacts and any rubber seals during routine maintenance to prevent water ingress and corrosion.
- **Cleanliness:** Keep the socket area free from dirt, debris, and excessive moisture. Use a clean, dry cloth to wipe down the exterior if necessary.

7. TROUBLESHOOTING

If the component connected to the S789 Pigtail and Socket is not functioning correctly, consider the following troubleshooting steps:

- **No Power to Component:**

- **Check Bulb/Component:** Ensure the bulb or connected component itself is not faulty. Test it in another known-good socket if possible.
- **Inspect Wiring:** Verify that all wire connections (crimps or solder joints) are secure and properly insulated. Look for any breaks or damage in the wires leading to the socket.
- **Check Fuse:** Consult your vehicle's owner's manual to locate and check the fuse associated with the circuit. Replace if blown.
- **Test for Voltage:** Using a multimeter, carefully test for voltage at the socket's terminals (with the battery reconnected and circuit activated) to confirm power is reaching the socket.

• **Intermittent Connection:**

- **Inspect Contacts:** Check the metal contacts inside the socket for corrosion or bending. Gently clean or adjust them if necessary (with power disconnected).
- **Secure Fit:** Ensure the bulb or component is seated firmly and correctly within the socket.
- **Wire Integrity:** Re-examine wire connections for any looseness or poor insulation that could cause intermittent contact.

If troubleshooting steps do not resolve the issue, it may be necessary to consult a qualified automotive technician.

8. SPECIFICATIONS

Attribute	Detail
Brand	Standard Motor Products
Model	Pigtail/Socket
Item Model Number	S789
Manufacturer Part Number	S789
Item Weight	0.32 ounces (approx. 9 grams)
Product Dimensions	2 x 2 x 4 inches (approx. 5.08 x 5.08 x 10.16 cm)
Country of Origin	China

9. WARRANTY AND SUPPORT

For specific warranty information regarding the Standard Motor Products S789 Pigtail and Socket, please refer to the warranty documentation provided at the time of purchase or visit the official Standard Motor Products website. Warranty terms and conditions may vary.

For technical support or further assistance, please contact Standard Motor Products customer service or visit their official website for contact details and resources.

Note: This manual provides general guidance. Always consult a qualified professional for complex installations or repairs.