

Standard Motor Products S2485

Standard Motor Products S2485 Vehicle Speed Sensor
Connector Instruction Manual

Brand: Standard Motor Products | Model: S2485

1. PRODUCT OVERVIEW

The Standard Motor Products S2485 is an automatic transmission output shaft speed sensor connector. This component is crucial for transmitting accurate speed data from the vehicle's transmission to the engine control unit (ECU) or other relevant systems. It is designed to replace a damaged or worn original equipment connector, ensuring proper function of the vehicle's speed sensing system.

Key Features:

- **Designed for Performance:** Engineered to deliver trouble-free, consistent performance, ensuring reliable operation of your vehicle's speed sensor.
- **Vehicle Compatibility:** Specifically designed to be the correct fit for compatible vehicles, aligning with original equipment specifications.
- **Durable Construction:** Manufactured from high-quality materials to provide ultimate durability and a long service life under various operating conditions.
- **Quality Assurance:** Produced to meet or exceed strict quality requirements, ensuring a dependable and safe component for your automotive system.

2. COMPONENTS AND WHAT'S INCLUDED

The S2485 Vehicle Speed Sensor Connector kit typically includes the main connector housing, pre-wired leads, and necessary terminals for a complete repair or replacement. The exact contents may vary slightly, but the primary components are designed to facilitate a direct replacement of the original connector.

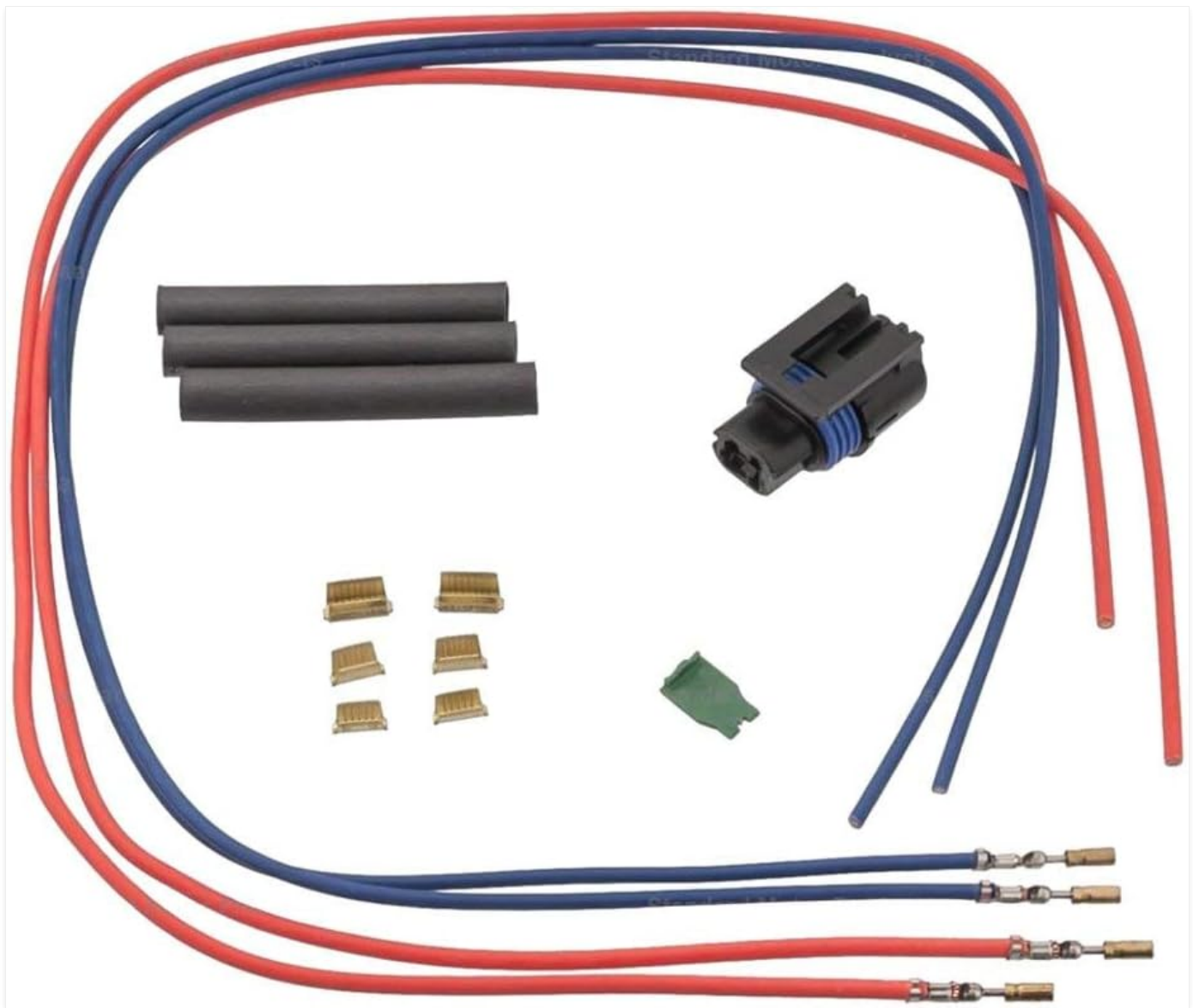


Figure 2.1: Overview of the S2485 connector kit components, including the main connector, red and blue wires, heat shrink tubing, and metal terminals.



Figure 2.2: Detailed view of the S2485 connector housing, highlighting its design and blue internal seal.



Figure 2.3: Detailed image of the pre-terminated terminals on the wires, showing the connection points for the connector.

3. SETUP AND INSTALLATION

Installation of the S2485 Vehicle Speed Sensor Connector requires basic automotive electrical knowledge and tools. It is highly recommended that installation be performed by a qualified automotive technician to ensure proper wiring and connection integrity. Incorrect installation can lead to sensor malfunction or damage to vehicle electrical systems.

General Installation Steps:

1. **Safety First:** Disconnect the vehicle's battery negative terminal before beginning any electrical work to prevent accidental short circuits or electrical shock.
2. **Locate Sensor:** Identify the automatic transmission output shaft speed sensor and its existing connector. Refer to your vehicle's service manual for exact location.
3. **Inspect Old Connector:** Carefully examine the old connector and wiring for signs of damage, corrosion, or wear. Note the wire color and pin assignments.

4. **Remove Old Connector:** Disconnect the old connector from the sensor. If replacing the connector body only, carefully remove the old terminals from the connector housing. If replacing the entire pigtail, cut the old wires, leaving enough length to splice the new connector.
5. **Prepare New Wires:** If splicing, strip the insulation from the vehicle's existing wiring and the new connector's wires. Ensure proper wire gauge compatibility.
6. **Connect Wires:** Using appropriate crimping tools and connectors (e.g., butt connectors, solder and heat shrink), securely connect the new connector's wires to the vehicle's wiring. Match wire colors and pin assignments precisely. Use the provided heat shrink tubing for insulation and protection.
7. **Insert Terminals (if applicable):** If the connector requires individual terminal insertion, carefully push the crimped terminals into the new connector housing until they lock into place.
8. **Connect to Sensor:** Plug the new S2485 connector firmly onto the automatic transmission output shaft speed sensor. Ensure it clicks into place securely.
9. **Secure Wiring:** Route and secure the new wiring to prevent chafing, pinching, or contact with hot or moving parts.
10. **Reconnect Battery:** Reconnect the vehicle's battery negative terminal.
11. **Test System:** Start the vehicle and check for proper operation of the speedometer and transmission shifting. Scan for any diagnostic trouble codes (DTCs) using an OBD-II scanner.

Important: Always refer to your vehicle's specific service manual for detailed wiring diagrams and procedures relevant to your make and model.

4. OPERATING PRINCIPLES

The S2485 Vehicle Speed Sensor Connector is a passive electrical component. Once properly installed, its function is to provide a secure and reliable electrical connection between the vehicle's wiring harness and the automatic transmission output shaft speed sensor. It does not have any operational controls or settings that require user interaction.

The speed sensor, through this connector, sends signals to the vehicle's computer, which uses this information for various functions, including speedometer readings, transmission shift points, cruise control, and anti-lock braking systems (ABS). The integrity of this connection is vital for accurate data transmission.

5. MAINTENANCE

The S2485 connector is designed for long-term, maintenance-free operation. However, periodic inspection can help identify potential issues before they lead to failure.

Recommended Maintenance Checks:

- **Visual Inspection:** During routine vehicle maintenance, visually inspect the connector and its wiring for any signs of physical damage, such as cracks, fraying, or melted insulation.
- **Corrosion Check:** Look for any signs of corrosion on the electrical terminals or within the connector housing. Corrosion can impede electrical flow.
- **Connection Security:** Ensure the connector remains firmly seated on the speed sensor and that all wire splices (if applicable) are secure and properly insulated.
- **Cleaning:** If dirt or debris accumulates on the exterior of the connector, gently wipe it clean with a dry cloth. Avoid using harsh chemicals or excessive moisture.

No internal maintenance or lubrication is required for this component.

6. TROUBLESHOOTING

If you experience issues related to your vehicle's speed sensor after installing or using the S2485 connector, consider the following troubleshooting steps. Note that these are general guidelines, and professional diagnosis is often required.

Common Symptoms of a Faulty Speed Sensor Connector:

- Erratic or inaccurate speedometer readings.
- Transmission shifting issues (e.g., harsh shifts, delayed shifts, or no shifts).
- Illumination of the Check Engine Light (CEL) with related diagnostic trouble codes (DTCs) for speed sensor circuits.
- Malfunction of cruise control.
- Issues with anti-lock braking system (ABS) or traction control.

Troubleshooting Steps:

1. **Visual Inspection:** Re-inspect the connector and all associated wiring for any loose connections, corrosion, or physical damage. Ensure the connector is fully seated on the sensor.
2. **Wiring Integrity:** Check the integrity of the wire splices or crimps. Tug gently on each wire to ensure it is securely connected.
3. **Sensor Check:** While the connector may be the issue, the speed sensor itself could be faulty. A professional can test the sensor's output.
4. **Diagnostic Scan:** Use an OBD-II scanner to retrieve any stored DTCs. Codes related to vehicle speed sensors (e.g., P0500) can help pinpoint the problem.
5. **Continuity Test:** If you have a multimeter, you can perform a continuity test on the wires within the connector and the splices to ensure there are no breaks in the circuit.

If troubleshooting does not resolve the issue, it is advisable to consult a certified automotive technician for professional diagnosis and repair.

7. SPECIFICATIONS

Attribute	Detail
Manufacturer	Standard Motor Products
Brand	Standard Motor Products
Model Number	S2485
Product Dimensions	3 x 7 x 3 inches
Manufacturer Part Number	S2485
ASIN	B086GYMLT6
Date First Available	March 13, 2020

8. WARRANTY AND SUPPORT

For specific warranty information regarding the Standard Motor Products S2485 Vehicle Speed Sensor Connector, please

refer to the documentation included with your purchase or contact Standard Motor Products directly. Warranty terms and conditions may vary.

If you have any questions regarding the fitment of this product for your vehicle, installation procedures, or require technical assistance, please contact Standard Motor Products customer support or the retailer from whom you purchased the product. Providing your vehicle's make, model, and year, along with the product's model number (S2485), will help expedite your inquiry.

You can typically find contact information on the manufacturer's official website or on the product packaging.

© 2024 Standard Motor Products. All rights reserved.
This manual is for informational purposes only. Always consult a qualified professional for vehicle repairs.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question