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## Standard Motor Products SC601

# Standard Motor Products SMP SC601 Intermotor Vehicle Speed Sensor User Manual

Model: SC601

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products SMP SC601 Intermotor Vehicle Speed Sensor. This sensor is designed to deliver consistent performance by accurately measuring vehicle speed and transmitting this data to the vehicle's control systems.



An image showing the Standard Motor Products SMP SC601 Intermotor Vehicle Speed Sensor. It features a black plastic body with a metallic sensing element, connected to a black insulated wire ending in a white electrical connector.

## SETUP AND INSTALLATION

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Proper installation is crucial for the accurate function of the vehicle speed sensor. If you are unsure about any step, it is recommended to consult a qualified automotive technician.

### Safety Precautions:

- Always disconnect the vehicle's battery before beginning any electrical work to prevent accidental

short circuits or injury.

- Ensure the vehicle is securely supported on a level surface if lifting is required.
- Wear appropriate personal protective equipment, such as gloves and eye protection.

### General Installation Steps:

1. **Locate the Existing Sensor:** Identify the location of the old vehicle speed sensor on your specific vehicle model. This is typically found on the transmission or transaxle.
2. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor. Avoid pulling directly on the wires.
3. **Remove Old Sensor:** Use the appropriate wrench or socket to unthread and remove the old speed sensor from its mounting location. Be prepared for a small amount of fluid leakage if the sensor is submerged in transmission fluid.
4. **Inspect Mounting Area:** Clean the mounting area and inspect for any debris or damage.
5. **Install New Sensor:** Apply a small amount of thread sealant (if recommended by vehicle manufacturer) to the threads of the new SMP SC601 sensor. Carefully thread the new sensor into place by hand to avoid cross-threading, then tighten to the manufacturer's specified torque.
6. **Reconnect Electrical Connector:** Firmly attach the electrical connector to the new sensor until it clicks into place.
7. **Reconnect Battery:** Reconnect the vehicle's battery.
8. **Test Operation:** Start the vehicle and verify proper speedometer function and the absence of any warning lights related to the speed sensor.

## OPERATING INSTRUCTIONS

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The Standard Motor Products SMP SC601 Intermotor Vehicle Speed Sensor operates automatically once correctly installed. Its primary function is to generate an electrical signal proportional to the rotational speed of a component, typically a transmission output shaft or wheel. This signal is then sent to the vehicle's Engine Control Unit (ECU) or Transmission Control Unit (TCU) to provide accurate vehicle speed data.

This speed data is critical for various vehicle systems, including:

- Speedometer and odometer readings.
- Automatic transmission shift points.
- Cruise control system operation.
- Anti-lock Braking System (ABS) and Traction Control System (TCS) functionality.
- Engine management for fuel injection and ignition timing.

No user interaction is required for the sensor's operation after installation.

## MAINTENANCE

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The Standard Motor Products SMP SC601 Intermotor Vehicle Speed Sensor is designed to be a maintenance-free component. Regular preventative maintenance specific to the sensor itself is generally not required.

However, it is advisable to perform periodic visual inspections during routine vehicle service:

- **Wiring and Connector:** Check the sensor's wiring for any signs of fraying, cuts, or damage. Ensure the electrical connector is securely attached and free from corrosion or dirt.
- **Mounting Security:** Verify that the sensor is securely mounted and not loose.

- **Debris:** Ensure the sensor tip is free from excessive dirt, metal shavings, or other debris that could interfere with its operation.

If any damage or loose connections are observed, address them promptly or consult a qualified technician.

## TROUBLESHOOTING

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If you experience issues that you suspect are related to the vehicle speed sensor, consider the following common symptoms and troubleshooting steps:

### Common Symptoms of a Faulty Speed Sensor:

- Inaccurate or erratic speedometer readings.
- Speedometer not working at all.
- Check Engine Light (CEL) illuminated on the dashboard.
- Issues with automatic transmission shifting (e.g., harsh shifts, delayed shifts, or not shifting).
- Cruise control not engaging or disengaging unexpectedly.
- Anti-lock Braking System (ABS) or Traction Control System (TCS) warning lights.

### Troubleshooting Steps:

1. **Check Connections:** Ensure the electrical connector to the speed sensor is clean, dry, and securely fastened. Disconnect and reconnect it to ensure a good contact.
2. **Inspect Wiring:** Visually inspect the wiring harness leading to the sensor for any signs of damage, such as cuts, abrasions, or pinched wires.
3. **Scan for Diagnostic Trouble Codes (DTCs):** If the Check Engine Light is on, use an OBD-II scanner to retrieve any stored diagnostic trouble codes. Codes related to vehicle speed sensors (e.g., P0500) can help confirm a sensor issue.
4. **Professional Diagnosis:** If basic checks do not resolve the issue, or if you are uncomfortable performing further diagnostics, it is recommended to have the vehicle inspected by a qualified automotive technician. They can perform advanced tests to confirm sensor functionality or identify other underlying issues.

## SPECIFICATIONS

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<b>Brand</b>	Standard Motor Products
<b>Model Number</b>	SC601
<b>Item Weight</b>	3.2 ounces
<b>Material</b>	Metal
<b>Product Dimensions (L x W x H)</b>	1 x 1 x 1 inches
<b>UPC</b>	033086211107
<b>Manufacturer Part Number</b>	SC601

## WARRANTY AND SUPPORT

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Specific warranty information for the Standard Motor Products SMP SC601 Intermotor Vehicle Speed Sensor should be obtained directly from Standard Motor Products or the authorized seller from whom the product was purchased. Warranty terms typically cover defects in materials and workmanship under normal use.

For technical support, installation assistance, or warranty claims, please contact Standard Motor Products customer service or refer to their official website for contact details and support resources.