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Standard Motor Products SC130

Standard Motor Products SC130 Speed Sensor Instruction Manual

Model: SC130

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Standard Motor Products SC130 Vehicle Speed Sensor. This sensor is designed to accurately measure vehicle speed, contributing to the correct functioning of various automotive systems.



An image showing the Standard Motor Products SC130 Speed Sensor, a black cylindrical component with a brown O-ring and a metal mounting bracket, featuring an electrical connector at one end.

What's in the Box

- Standard Motor Products SC130 Vehicle Speed Sensor

Setup and Installation

Installation of the SC130 speed sensor typically involves replacing an existing sensor in a vehicle's transmission or differential. Due to the vehicle-specific nature of this part, professional installation is recommended. Always consult your vehicle's service manual for precise location and removal/installation procedures.

1. **Safety First:** Ensure the vehicle is safely lifted and supported. Disconnect the vehicle's battery to prevent electrical hazards.
2. **Locate the Old Sensor:** Identify the existing vehicle speed sensor. Its location varies by vehicle make and model, but it is commonly found on the transmission or rear differential.
3. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor.
4. **Remove Old Sensor:** Use appropriate tools to unbolt or unscrew the old sensor from its mounting point. Be prepared for some fluid leakage if the sensor is submerged in transmission or differential fluid.
5. **Install New Sensor:** Ensure the mounting surface is clean. Apply a small amount of clean fluid to the O-ring of the new SC130 sensor to aid in installation and sealing. Insert the new sensor and secure it with the bolt(s) or by screwing it in. Tighten to the vehicle manufacturer's specified torque.
6. **Reconnect Electrical Connector:** Firmly connect the electrical harness to the new sensor.
7. **Test Functionality:** Reconnect the vehicle's battery. Start the vehicle and perform a test drive to confirm proper operation of the speedometer and any related systems. Check for diagnostic trouble codes (DTCs) using an OBD-II scanner.

Note: Incorrect installation can lead to inaccurate speed readings or damage to the sensor or vehicle systems.

Operating Principles

The Standard Motor Products SC130 Speed Sensor is an electromagnetic sensor that generates a signal based on the rotation of a reluctor wheel (tone ring) within the transmission or differential. As the reluctor wheel spins, its teeth pass by the sensor's tip, creating a series of voltage pulses. The frequency of these pulses is directly proportional to the rotational speed, which the vehicle's Powertrain Control Module (PCM) or Engine Control Unit (ECU) interprets as vehicle speed. This information is crucial for various vehicle functions, including speedometer operation, transmission shift points, cruise control, and anti-lock braking systems (ABS).

Maintenance

The SC130 speed sensor is a sealed unit and generally requires no routine maintenance. However, it is advisable to periodically inspect the sensor's electrical connector and wiring for any signs of corrosion, damage, or loose connections. Ensure the sensor's mounting area is free from excessive dirt or debris that could interfere with its operation or cause damage.

Troubleshooting

If you experience issues after installing or while using the SC130 speed sensor, consider the following common problems and solutions:

- **Inaccurate Speedometer Reading or No Speedometer Function:**
  - Check electrical connection: Ensure the connector is fully seated and free of corrosion.
  - Inspect wiring: Look for frayed, cut, or shorted wires leading to the sensor.
  - Verify sensor installation: Confirm the sensor is properly seated and tightened.
  - Scan for DTCs: Use an OBD-II scanner to check for speed sensor-related diagnostic trouble codes (e.g., P0500).
- **Transmission Shifting Issues:**
  - A faulty speed sensor can affect transmission shift points. Follow the steps above for speedometer issues.
- **Cruise Control Malfunction:**
  - If cruise control is not engaging or disengaging properly, the speed sensor might be a contributing factor.

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

Specifications

Brand	Standard Motor Products
Model Number	SC130
Part Type	Vehicle Speed Sensor
Fit Type	Vehicle Specific
Material	Acrylonitrile Butadiene Styrene
Product Dimensions (L x W x H)	3.03 x 3.03 x 3.63 inches
Item Weight	0.01 Ounces (approx. 0.35 pounds package weight)
Country of Origin	China

Warranty and Support

Standard Motor Products offers a warranty on its parts, typically covering defects in material and workmanship. For specific warranty terms and conditions, please refer to the official Standard Motor Products website or contact their customer service directly. Keep your purchase receipt as proof of purchase.
For technical support, installation guidance, or warranty claims, please contact Standard Motor Products customer service. You can usually find contact information on their official website or on the product packaging.
Return Policy: If purchased from Amazon, this product may be eligible for a refund/replacement within 30 days, subject to Amazon's return policy.

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