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Standard Motor Products SC134

Standard Motor Products Speed Sensor SC134 Instruction Manual

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Standard Motor Products SC134 Speed Sensor. Please read this manual thoroughly before attempting any installation or service to ensure safe and effective use of the product.

SAFETY INFORMATION

Always prioritize safety when working with automotive components. Failure to follow these safety guidelines may result in personal injury or damage to the vehicle.

- Disconnect the vehicle's battery before beginning any electrical work to prevent electrical shock or short circuits.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands if working underneath it.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- Keep children and pets away from the work area.

PRODUCT OVERVIEW

The Standard Motor Products SC134 is a vehicle speed sensor designed to accurately measure the rotational speed of a vehicle's transmission or wheel. This data is crucial for various vehicle systems, including the speedometer, cruise control, anti-lock braking system (ABS), and engine control unit (ECU).

The sensor is constructed from durable metal and features a machined exterior, ensuring reliability and longevity in automotive environments.



Image 1: Front view of the Standard Motor Products SC134 Speed Sensor, showing the electrical connector and mounting tab.



Image 2: The Standard Motor Products SC134 Speed Sensor held next to a hand for size comparison, indicating its compact dimensions.

Key Features:

- **Accurate Speed Measurement:** Provides precise data for vehicle systems.
- **Durable Construction:** Made from metal with a machined exterior for resilience.
- **Output Type:** Push-Pull.
- **Specific Uses:** Speed sensing in automotive applications.

SETUP AND INSTALLATION

Installation of the SC134 Speed Sensor typically involves replacing an existing faulty sensor. Due to the varying locations and procedures across different vehicle makes and models, it is highly recommended to consult your vehicle's specific service manual or seek professional assistance for installation.

General Installation Steps (Consult Vehicle Manual for Specifics):

1. **Locate the Sensor:** Identify the location of the existing speed sensor on your vehicle (e.g., transmission, wheel hub).
2. **Disconnect Battery:** Disconnect the negative terminal of the vehicle's battery.
3. **Remove Old Sensor:** Disconnect the electrical connector from the old sensor. Carefully unbolt or unclip the old sensor from its mounting point.
4. **Inspect Mounting Area:** Clean the mounting surface and inspect for any debris or damage.
5. **Install New Sensor:** Insert the new Standard Motor Products SC134 sensor into the mounting hole. Secure it with the appropriate bolts or clips, ensuring it is seated correctly.
6. **Connect Electrical Connector:** Reconnect the electrical connector to the new sensor, ensuring a secure connection.
7. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
8. **Test System:** Start the vehicle and check for proper operation of the speedometer and any related systems. Clear any diagnostic trouble codes (DTCs) if necessary.

Note: Improper installation can lead to incorrect readings or damage to the sensor and vehicle systems. If you are unsure, consult a certified automotive technician.

OPERATING PRINCIPLES

The Standard Motor Products SC134 Speed Sensor operates by detecting the rotation of a toothed wheel or reluctor ring, typically located on the transmission output shaft or wheel hub. As the teeth pass by the sensor, they interrupt a magnetic field or generate a pulse, which the sensor converts into an electrical signal. This signal's frequency or voltage varies with the speed of rotation.

The vehicle's Engine Control Unit (ECU) or other control modules interpret these signals to determine the vehicle's speed, which is then used for various functions, including:

- Speedometer display
- Cruise control operation
- Anti-lock Braking System (ABS)
- Traction control systems
- Automatic transmission shift points

MAINTENANCE

The Standard Motor Products SC134 Speed Sensor is designed for long-term reliability and typically requires minimal maintenance. However, periodic inspection can help ensure its continued performance.

Maintenance Recommendations:

- **Visual Inspection:** During routine vehicle service, visually inspect the sensor and its wiring for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Ensure the sensor's tip and the reluctor ring it reads are free from excessive dirt, debris, or metallic particles, which can interfere with accurate readings.
- **Wiring Integrity:** Check the electrical harness connected to the sensor for fraying, cuts, or insulation damage.
- **Secure Mounting:** Verify that the sensor is securely mounted and not loose.

If any issues are observed, it is advisable to consult a qualified technician for diagnosis and repair.

TROUBLESHOOTING

If you experience issues related to vehicle speed sensing, the SC134 sensor might be a contributing factor. Here are some common symptoms and potential troubleshooting steps:

Symptom	Possible Cause	Action
Inaccurate or erratic speedometer readings	Faulty speed sensor, damaged wiring, debris on sensor tip.	Inspect sensor and wiring. Clean sensor tip. Test sensor output with a multimeter (if applicable and knowledgeable). Replace sensor if faulty.
Cruise control not engaging or disengaging unexpectedly	Faulty speed sensor, brake light switch issue, wiring problem.	Check speed sensor and its connection. Verify brake light switch operation.
ABS/Traction Control warning light illuminated	Faulty wheel speed sensor (if SC134 is a wheel speed sensor), wiring issue, ABS module fault.	Scan for diagnostic trouble codes (DTCs) using an OBD-II scanner. Inspect relevant speed sensor and wiring.
Harsh or incorrect automatic transmission shifting	Faulty transmission speed sensor (if SC134 is a transmission speed sensor), low transmission fluid, internal transmission issue.	Check transmission fluid level. Scan for DTCs. Inspect transmission speed sensor.

For complex issues or persistent problems, it is recommended to consult a professional automotive diagnostic technician.

SPECIFICATIONS

Attribute	Detail
Brand	Standard Motor Products
Model Number	SC134
Item Dimensions (L x W x H)	2 x 1.44 x 3.38 inches
Material	Metal
Item Weight	0.19 Pounds (approx. 3.04 ounces)
Style	Modern
Output Type	Push-Pull
Specific Uses	Speed sensing
Exterior	Machined
UPC	091769355975
GTIN	00091769355975

WARRANTY AND SUPPORT

Standard Motor Products stands behind the quality of its products. For specific warranty information, including terms, conditions, and duration, please refer to the official Standard Motor Products website or contact their customer support directly. Keep your proof of purchase for warranty claims.

For technical support, installation guidance, or to report a product issue, please visit the [Standard Motor Products official website](#) or contact their customer service department.