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MODEL: SC330

Brand: Standard Motor Products

1. PRODUCT OVERVIEW

The Standard Motor Products SC330 Transmission Speed Sensor is a critical component designed to accurately measure the rotational speed of the transmission output shaft. This data is essential for various vehicle systems, including the speedometer, cruise control, and transmission shift points, ensuring optimal vehicle performance and fuel efficiency.

Key Features:

- **Product Type:** Electronic Sensor
- **Compact Design:** Item Package Dimension: 4.3L x 2.3W x 1.9H inches
- **Lightweight:** Item Package Weight - 0.05 Pounds
- **Quantity:** Item Package Quantity - 1

Product Image:



Image: A black Standard Motor Products SC330 Transmission Speed Sensor, showing its electrical connector and mounting point. This sensor is designed for precise measurement of transmission output shaft speed.

2. SETUP AND INSTALLATION

Proper installation is crucial for the accurate operation of the transmission speed sensor. It is recommended that installation be performed by a qualified automotive technician.

General Installation Steps:

1. **Safety First:** Ensure the vehicle is turned off, the parking brake is engaged, and the battery is disconnected before beginning any work. Use appropriate safety gear.
2. **Locate Old Sensor:** Identify the location of the existing transmission speed sensor. This is typically on the transmission housing.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old sensor.
4. **Remove Old Sensor:** Unscrew or unclip the old sensor from its mounting point. Be prepared for a small amount of transmission fluid to leak.
5. **Install New Sensor:** Insert the new SC330 sensor into the opening, ensuring it seats correctly. Secure it with the appropriate fasteners.
6. **Reconnect Wiring:** Reconnect the electrical connector to the new sensor, ensuring a secure fit.
7. **Fluid Check:** Check transmission fluid level and top up if necessary.
8. **Test Operation:** Reconnect the battery and test the vehicle's speedometer and transmission shifting to confirm proper operation.

Note: Specific installation procedures may vary depending on vehicle make and model. Refer to your vehicle's service manual for detailed instructions.

3. OPERATION

The Standard Motor Products SC330 Transmission Speed Sensor operates by generating an electrical signal proportional to the rotational speed of the transmission output shaft. This signal is then sent to the vehicle's

Engine Control Unit (ECU) or Transmission Control Unit (TCU).
The ECU/TCU uses this speed data for several critical functions:

- **Speedometer Accuracy:** Provides the necessary input for the vehicle's speedometer to display the correct road speed.
- **Transmission Shifting:** Helps the transmission determine the optimal shift points for smooth and efficient gear changes.
- **Cruise Control:** Essential for maintaining a set vehicle speed.
- **Engine Management:** Contributes to overall engine performance and fuel economy calculations.

Under normal operating conditions, the sensor functions continuously without requiring user intervention.

4. MAINTENANCE

The SC330 Transmission Speed Sensor is designed for long-term reliability and typically requires minimal maintenance. However, periodic inspection can help ensure its continued performance.

Recommended Maintenance:

- **Visual Inspection:** During routine vehicle maintenance (e.g., oil changes), visually inspect the sensor and its wiring for any signs of damage, corrosion, or loose connections.
- **Cleanliness:** Ensure the sensor's tip is free from excessive debris or metallic particles, which could interfere with its readings. Clean gently with a soft cloth if necessary.
- **Wiring Integrity:** Check the electrical harness connected to the sensor for fraying, cuts, or signs of rodent damage.

Do not attempt to disassemble the sensor. Any internal damage will render the unit inoperable and void any warranty.

5. TROUBLESHOOTING

If you experience issues related to vehicle speed readings or transmission shifting, the speed sensor may be a contributing factor. Consult a qualified technician for diagnosis.

Symptom	Possible Cause	Suggested Action
Inaccurate or erratic speedometer readings	Faulty speed sensor, loose electrical connection, damaged wiring.	Check sensor connection. Inspect wiring for damage. Professional diagnostic scan recommended. Replace sensor if confirmed faulty.
Transmission shifting issues (harsh shifts, delayed shifts, no shifts)	Faulty speed sensor, low transmission fluid, other transmission problems.	Check transmission fluid level. Professional diagnostic scan to confirm sensor fault. Consult a transmission specialist.
Check Engine Light (CEL) illuminated with speed sensor related codes (e.g., P0500)	Speed sensor circuit malfunction, sensor failure.	Retrieve diagnostic trouble codes (DTCs) using an OBD-II scanner. Follow vehicle-specific diagnostic procedures.

Symptom	Possible Cause	Suggested Action
Cruise control not working	Faulty speed sensor, brake light switch issue, other cruise control system faults.	Verify speedometer operation. Check brake light switch. Professional diagnosis recommended.

Always consult a certified automotive technician for complex diagnostic and repair procedures.

6. SPECIFICATIONS

Brand	Standard Motor Products
Model Number	SC330
Product Type	Electronic Sensor (Transmission Speed Sensor)
Item Dimensions (L x W x H)	2.16 x 1.94 x 4.13 inches (approx. 5.49 x 4.93 x 10.49 cm)
Item Weight	0.8 ounces (approx. 22.68 g)
UPC	025623452289
Manufacturer Part Number	SC330

7. WARRANTY AND SUPPORT

Standard Motor Products stands behind the quality of its products. For specific warranty information regarding your SC330 Transmission Speed Sensor, please refer to the warranty documentation included with your purchase or visit the official Standard Motor Products website.

For technical support, installation assistance, or warranty claims, please contact Standard Motor Products customer service or your authorized dealer. Always provide your product model number (SC330) and purchase details when seeking support.

Contact information can typically be found on the manufacturer's official website or product packaging.