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Standard Motor Products DS-207

Standard Motor Products DS-207 Two Speed Axle Shift Sensor User Manual

Model: DS-207 | Brand: Standard Motor Products

1. PRODUCT OVERVIEW

The Standard Motor Products DS-207 is a two-speed axle shift sensor designed for specific vehicle applications. This component plays a crucial role in monitoring and reporting the shift position of a two-speed axle, ensuring proper vehicle operation and control.

- **Part Number:** DS-207
- **Fit Type:** Vehicle Specific
- **Function:** Standard Toggle Switch (DS207)
- **Weight:** Approximately 0.05 pounds

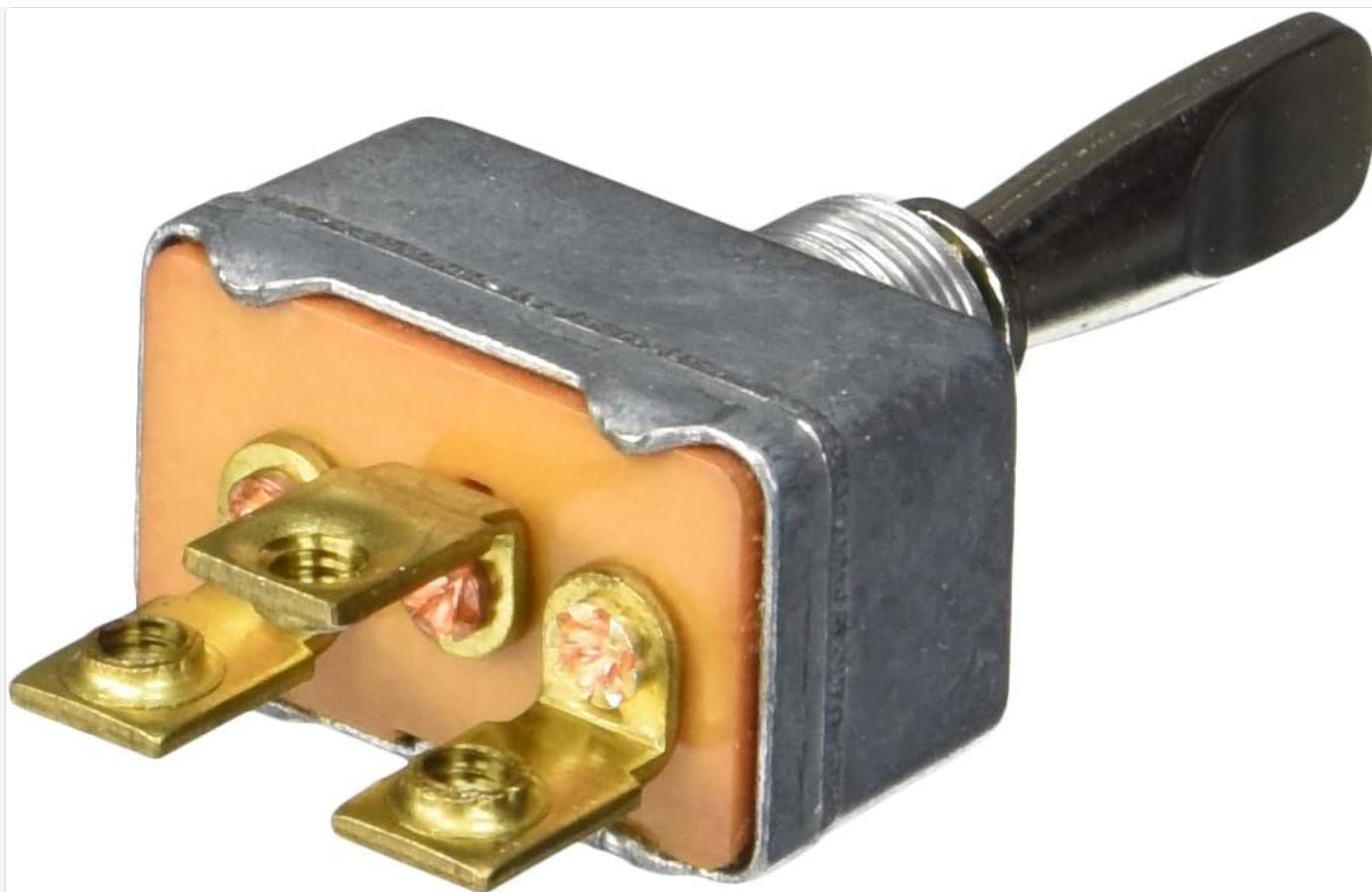


Figure 1: Front view of the DS-207 Two Speed Axle Shift Sensor, showing the toggle lever and mounting threads.

2. SETUP AND INSTALLATION

Installation of the DS-207 Two Speed Axle Shift Sensor requires specific automotive knowledge and tools. It is highly recommended that installation be performed by a qualified automotive technician. Always refer to your vehicle's specific service manual for detailed instructions and safety precautions.

2.1. Pre-Installation Checks

- Ensure the vehicle's ignition is off and the battery is disconnected before beginning any work.
- Verify that the DS-207 is the correct part number for your vehicle's make, model, and year.
- Inspect the sensor for any visible damage or defects prior to installation.

2.2. Installation Steps (General Guidelines)

1. Locate the existing two-speed axle shift sensor on your vehicle.
2. Carefully disconnect any electrical connectors and remove mounting hardware.
3. Remove the old sensor.
4. Install the new DS-207 sensor, ensuring proper alignment and secure mounting.
5. Reconnect the electrical connector, ensuring a firm and secure connection.
6. Reconnect the vehicle's battery and test the system according to the vehicle service manual.

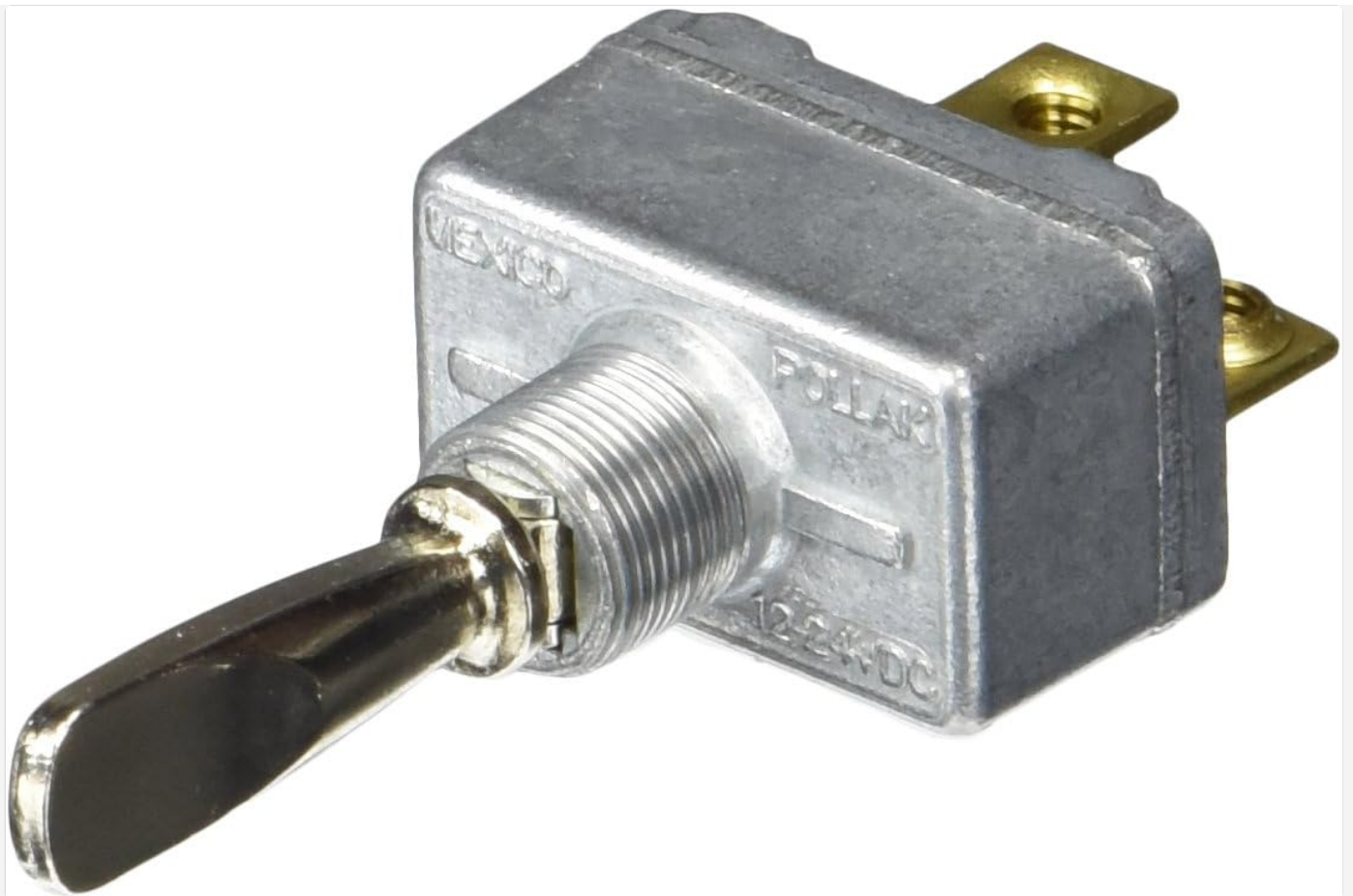


Figure 2: Rear view of the DS-207 sensor, showing the two brass electrical terminals for connection.

3. OPERATING PRINCIPLES

The Standard Motor Products DS-207 functions as a switch that detects the position of the two-speed axle. When the axle shifts between its high and low speed ranges, the sensor's internal mechanism changes its electrical state (e.g., opens or closes a circuit). This signal is then transmitted to the vehicle's control module, which uses this information to adjust vehicle performance or display the current axle state to the driver.

As a toggle switch, its operation is mechanical, relying on the physical movement of the axle's shifting mechanism to actuate the sensor's lever, thereby changing its electrical output.

4. MAINTENANCE

The DS-207 Two Speed Axle Shift Sensor is designed for durability and typically requires minimal maintenance. However, periodic inspection can help ensure its longevity and proper function.

- **Visual Inspection:** Periodically check the sensor and its wiring for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** If accessible, gently clean any accumulated dirt or debris from the sensor body using a soft cloth. Avoid using harsh chemicals or abrasive materials.
- **Connection Integrity:** Ensure the electrical connector remains securely attached and free from moisture or corrosion.

If any issues are observed, consult a qualified technician for diagnosis and repair.

5. TROUBLESHOOTING

If you experience issues related to your two-speed axle shifting or related indicators, the DS-207 sensor might be a contributing factor. Below are common symptoms and potential causes:

Symptom	Possible Cause	Action
Incorrect or no axle shift indication	Faulty sensor, loose wiring, corroded connector	Inspect wiring and connector. Test sensor continuity. Replace if faulty.
Intermittent shifting issues	Intermittent sensor signal, loose connection, internal sensor wear	Check for loose connections. Monitor sensor signal with diagnostic tools.
Check engine light (related to axle system)	Sensor failure, wiring short/open, ECU issue	Retrieve diagnostic trouble codes (DTCs). Follow vehicle-specific diagnostic procedures.

For complex issues or if you are unsure, always consult a certified automotive technician.

6. SPECIFICATIONS

Attribute	Detail
Brand	Standard Motor Products
Model	Two Speed Axle Shift Sensor
Part Number	DS-207
Material	Metal, Copper Alloy
Connector Type	Quick Connect
Insulation Resistance	100 Megaohms
Operation Mode	Motor, Electrical
Item Weight	0.01 ounces
Exterior	Machined
UPC	091769006105
ASIN	B000CSNSPE
Date First Available	December 2, 2005

7. WARRANTY AND SUPPORT

For specific warranty information regarding your Standard Motor Products DS-207 Two Speed Axle Shift Sensor, please refer to the documentation provided with your purchase or contact Standard Motor Products directly. Warranty terms typically cover manufacturing defects for a specified period.

For technical support or further assistance, please contact Standard Motor Products customer service or consult their official website. When contacting support, please have your product model number (DS-207) and purchase details readily available.

Note: This manual provides general information. Always consult a professional automotive technician for installation, diagnosis, and repair of vehicle components.

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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.

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Question

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

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

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