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Standard Motor Products APS209

Standard Motor Products APS209 Accelerator Pedal Sensor

User Manual

Product Overview

The Standard Motor Products APS209 is an Accelerator Pedal Sensor designed to accurately measure the position of the accelerator pedal in a vehicle. This sensor converts the mechanical movement of the pedal into an electrical signal, which is then sent to the vehicle's engine control unit (ECU). The ECU uses this signal to determine the driver's desired engine power, controlling fuel injection and ignition timing for optimal performance and fuel efficiency.

Key Features

- Intermotor Accelerator Pedal Position Sensor (APS209)
- Vehicle Specific Fitment
- Designed for precise signal output

What's in the Box

- Accelerator Pedal Sensor



This image shows a detailed view of the electrical connector on the Standard Motor Products APS209 Accelerator Pedal Sensor. The black plastic housing features a six-pin male connector, designed for secure and reliable electrical connection within the vehicle's system. The 'INTERMOTOR' brand name is visible on the sensor body.

Setup and Installation

Installation of an accelerator pedal sensor typically involves working with vehicle electrical systems and mechanical components. It is highly recommended that installation be performed by a qualified automotive technician to ensure proper function and safety. Always refer to your vehicle's specific service manual for detailed instructions.

General Installation Steps:

1. **Safety First:** Disconnect the vehicle's negative battery terminal to prevent accidental electrical shorts or component damage.
2. **Locate the Sensor:** Identify the existing accelerator pedal sensor, typically mounted near or on the accelerator pedal assembly.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old sensor.
4. **Remove Old Sensor:** Unbolt or unclip the old sensor from its mounting location. Note its orientation for correct installation of the new part.
5. **Install New Sensor:** Mount the new Standard Motor Products APS209 sensor in the exact position of the old one. Ensure it is securely fastened.
6. **Reconnect Wiring:** Connect the vehicle's electrical harness to the new sensor, ensuring a firm and secure connection.
7. **Reconnect Battery:** Reconnect the negative battery terminal.
8. **Test Functionality:** Start the vehicle and test the accelerator pedal's response. Check for any dashboard warning lights related to the engine or throttle system.

Operation

The APS209 Accelerator Pedal Sensor operates by providing a variable voltage signal to the vehicle's Engine Control Unit (ECU) based on the position of the accelerator pedal. As the pedal is pressed, the sensor's internal components change resistance, altering the voltage signal. This signal directly informs the ECU of the driver's throttle input, allowing the engine to adjust its power output accordingly.

Normal Operation:

- Smooth and consistent engine response to pedal input.
- No hesitation or sudden surges in acceleration.
- Absence of 'Check Engine' or 'Reduced Power' warning lights related to throttle control.

Maintenance

The Standard Motor Products APS209 Accelerator Pedal Sensor is a sealed unit and generally requires no routine maintenance. However, periodic inspection can help ensure its longevity and proper function.

Inspection Tips:

- **Visual Check:** Periodically inspect the sensor and its wiring harness for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Ensure the area around the sensor is free from excessive dirt, debris, or moisture, which could potentially affect its operation.
- **Wiring Integrity:** Check that the electrical connector is firmly seated and that the wires are not frayed or pinched.

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

Troubleshooting

If you experience issues with your vehicle's accelerator pedal response, the APS209 sensor might be a contributing factor. Below are common symptoms and potential solutions. Always consult a professional technician for accurate diagnosis and repair.

Problem	Possible Cause	Solution
Erratic or inconsistent acceleration	Faulty sensor signal, loose electrical connection	Check sensor wiring and connector. Consider professional diagnostic scan.
No throttle response	Sensor failure, broken wiring, ECU issue	Verify sensor connection. Professional diagnosis is required.

Problem	Possible Cause	Solution
'Check Engine' light with throttle-related codes	Sensor malfunction, circuit issue	Retrieve diagnostic trouble codes (DTCs) using an OBD-II scanner. Consult a technician.
Vehicle stuck in 'limp mode'	Critical sensor failure, safety protocol engaged	Immediate professional diagnosis and repair are necessary.

Specifications

Attribute	Detail
Brand	Standard Motor Products
Model	APS209 (Accelerator Pedal Sensor)
Manufacturer Part Number	APS209
Item Dimensions (L x W x H)	1 x 1 x 1 inches
Item Weight	1.76 ounces (0.11 Pounds)
Mounting Type	Flange Mount
Output Type	Electrical Signal
Specific Uses For Product	Automotive, Pedal Position Measurement
UPC	025623046549

Warranty and Support

Standard Motor Products provides a limited warranty for its products, covering defects in material and workmanship under normal use and service. The specific terms, conditions, and duration of the warranty may vary. Please retain your proof of purchase.

To Obtain Warranty Service:

- Contact the retailer where the product was purchased.
- Visit the official Standard Motor Products website for detailed warranty information and contact options.

Technical Support:

For technical assistance, installation questions, or troubleshooting guidance, please refer to the official Standard Motor

Products website or contact their customer support directly. Have your product model number (APS209) and any relevant vehicle information ready when seeking support.

Note: Always ensure that any work on your vehicle's critical systems is performed by a certified professional.

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