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EPSIRMP 5PP11-4

EPSIRMP 12635273 Fuel Injection Pressure Sensor Instruction Manual

Model: 5PP11-4

Product Overview

The EPSIRMP 12635273 Fuel Injection Pressure Sensor (Model 5PP11-4) is designed to provide accurate fuel pressure readings for optimal engine performance. This sensor is manufactured with high-quality materials to ensure stable and reliable operation, meeting or exceeding original equipment (OE) standards.



Image 1: Front view of the EPSIRMP 12635273 Fuel Injection Pressure Sensor.

Key Features:

- High-quality construction for durability and reliability.
- Ensures accurate fuel pressure monitoring.
- Direct replacement for original equipment.
- Designed to meet or exceed OE specifications.

Compatibility

This fuel injection pressure sensor is compatible with a range of vehicles. Please verify compatibility using the part numbers and your vehicle's year, make, and model before installation.

Replaces Part Numbers:

- 5PP11-4
- 12635273

- 12633417

Applicable Vehicle Models:

- GMC Terrain (2011-2017)
- GMC Canyon (2015-2016)
- Chevrolet Impala (2012-2017)
- Chevrolet Caprice (2012-2017)
- Chevrolet Impala Limited (2014-2016)
- Chevrolet Equinox (2011-2017)
- Chevrolet Orlando (2012-2014)
- Chevrolet Camaro (2012-2015)
- Chevrolet Colorado (2015-2016)
- Cadillac SRX (2011-2016)
- Cadillac XTS (2013-2017)
- Cadillac CTS (2011-2015)
- Cadillac ATS (2013-2015)
- Buick LaCrosse (2011-2016)
- Buick Regal (2011-2017)
- Saab 9-4X (2011)

Setup and Installation

Installation of the fuel injection pressure sensor is a direct replacement procedure. It is recommended that installation be performed by a qualified technician or individuals with appropriate automotive repair experience.

General Installation Steps:

1. **Safety First:** Ensure the vehicle's engine is off and cool. Disconnect the battery to prevent electrical hazards.
2. **Locate the Sensor:** Identify the existing fuel injection pressure sensor on the fuel rail. Refer to your vehicle's service manual for the exact location.
3. **Relieve Fuel Pressure:** Safely relieve fuel system pressure according to your vehicle's manufacturer guidelines. This is a critical step to prevent fuel spray and fire hazards.
4. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor.
5. **Remove Old Sensor:** Use an appropriate wrench to unscrew and remove the old fuel pressure sensor. Be prepared for a small amount of fuel leakage.
6. **Inspect Mounting Area:** Clean the sensor mounting area on the fuel rail to ensure a proper seal for the new sensor.
7. **Install New Sensor:** Apply a small amount of thread sealant (if recommended by vehicle manufacturer) to the threads of the new EPSIRMP sensor. Carefully thread the new sensor into place by hand to avoid cross-threading, then tighten it to the manufacturer's specified torque.
8. **Connect Electrical Connector:** Reconnect the electrical connector to the new sensor, ensuring it clicks securely into place.
9. **Reconnect Battery:** Reconnect the vehicle's battery.
10. **Check for Leaks:** Turn the ignition to the "ON" position (without starting the engine) to allow the fuel pump to prime the system. Check for any fuel leaks around the new sensor. Start the engine and re-check for leaks.



Image 2: View of the sensor's threaded end for installation into the fuel rail.



Image 3: Close-up of the electrical connector on the sensor.

Operating Principles

The fuel injection pressure sensor continuously monitors the fuel pressure within the fuel rail. This data is sent to the vehicle's Engine Control Unit (ECU). The ECU uses this information to adjust fuel delivery, ensuring the correct air-fuel mixture for efficient combustion and optimal engine performance. A properly functioning sensor is crucial for maintaining fuel efficiency, reducing emissions, and preventing engine issues.

Maintenance

The EPSIRMP Fuel Injection Pressure Sensor is designed to be a maintenance-free component. Regular maintenance typically involves ensuring the electrical connection remains clean and secure. No periodic cleaning or calibration is required for the sensor itself.

Inspection:

- Periodically inspect the sensor and its wiring for any signs of physical damage, corrosion, or loose connections.
- If any damage is observed, consider replacement to prevent potential engine performance issues.

Troubleshooting

Malfunctions of the fuel injection pressure sensor can lead to various engine performance issues. Common symptoms and troubleshooting steps are outlined below.

Common Symptoms of a Faulty Sensor:

- Check Engine Light illumination (DTCs related to fuel pressure).
- Engine misfires or rough idling.
- Decreased fuel efficiency.
- Difficulty starting the engine.
- Engine stalling.
- Reduced engine power or acceleration.

Troubleshooting Steps:

1. **Scan for Diagnostic Trouble Codes (DTCs):** Use an OBD-II scanner to retrieve any stored codes. Codes such as P0190, P0191, P0192, P0193, or P0194 often indicate issues with the fuel rail pressure sensor circuit.
2. **Inspect Wiring and Connector:** Visually check the sensor's electrical connector and wiring harness for any signs of damage, corrosion, or loose connections. Repair as necessary.
3. **Check Fuel Pressure:** If possible, use a fuel pressure gauge to verify actual fuel rail pressure and compare it to the vehicle manufacturer's specifications. This can help confirm if the sensor is providing inaccurate readings or if there's an issue with the fuel pump or regulator.
4. **Sensor Replacement:** If the sensor is confirmed to be faulty after diagnostic checks, replace it with a new, compatible EPSIRMP sensor following the installation steps.

Note: Always consult your vehicle's specific service manual for detailed diagnostic procedures and specifications.

Specifications

Attribute	Detail
Brand	EPSIRMP
Model Number	5PP11-4
Part Numbers	12635273, 12633417, 5PP11-4
Material	Ceramic, Metal, Plastic
Item Weight	0.1 Kilograms (approximately 3.53 ounces)
Mounting Type	Flange Mount
Package Dimensions	6.26 x 3.23 x 2.83 inches

Warranty and Support

EPSIRMP provides a **1-year product warranty service** for this fuel injection pressure sensor. This warranty covers

defects in materials and workmanship under normal use.

Customer Support:

If you encounter any issues with the product or have questions regarding its installation or operation, please contact EPSIRMP customer support. Our team is committed to resolving your concerns within 24 hours.

For support, please refer to the contact information provided with your purchase or visit the official EPSIRMP store page on Amazon: EPSIRMP Store.

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