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Standard Motor Products PC808

Standard Motor Products PC808 Crankshaft Sensor User Manual

Brand: Standard Motor Products | Model: PC808

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of the Standard Motor Products PC808 Crankshaft Sensor. This electronic sensor is designed for precise measurement in automotive applications, specifically monitoring the rotational speed and position of the crankshaft. While sometimes referred to as a camshaft sensor in some product descriptions, the PC808 is primarily a crankshaft position sensor.



Figure 1: Standard Motor Products PC808 Crankshaft Sensor. This image shows the overall view of the sensor, highlighting its main body and electrical connector.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your PC808 sensor. It is recommended that installation be performed by a qualified automotive technician.

2.1. Before Installation

- **Safety First:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent accidental short circuits or injury.
- **Personal Protective Equipment:** Wear appropriate safety glasses and gloves.
- **Vehicle Specifics:** Consult your vehicle's service manual for the exact location and specific removal/installation

procedures for the crankshaft position sensor, as these can vary significantly by make and model.

- **Tools Required:** Common automotive tools such as wrenches, sockets, screwdrivers, and potentially a diagnostic scan tool may be needed.

2.2. Installation Steps (General Guidelines)

1. **Locate the Old Sensor:** Identify the existing crankshaft position sensor on your vehicle. It is typically located near the crankshaft pulley or on the engine block.
2. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor. Avoid pulling on the wires.
3. **Remove Mounting Hardware:** Remove any bolts or clips securing the old sensor in place.
4. **Remove Old Sensor:** Gently pull the old sensor out of its mounting location. Be aware that some sensors may be sealed with an O-ring and require a slight twist to remove.
5. **Inspect Mounting Area:** Clean the mounting surface and ensure there are no debris or old O-ring remnants.
6. **Install New Sensor:** Insert the new Standard Motor Products PC808 sensor into the mounting hole. Ensure it seats properly.
7. **Secure Mounting Hardware:** Reinstall any bolts or clips, tightening them to the vehicle manufacturer's specifications.
8. **Connect Electrical Connector:** Firmly connect the electrical connector to the new sensor until it clicks into place.
9. **Reconnect Battery:** Reconnect the vehicle's negative battery terminal.
10. **Test Operation:** Start the engine and check for proper operation. It may be necessary to clear any stored diagnostic trouble codes (DTCs) using a scan tool.



Figure 2: Close-up view of the PC808 sensor body, showing the robust construction and 'STANDARD' branding.



Figure 3: Detailed view of the PC808 sensor's electrical connector, showing the pin configuration for secure connection.

3. OPERATING PRINCIPLES

The Standard Motor Products PC808 is an inductive crankshaft position sensor. It works by detecting the rotation of a reluctor wheel (or tone wheel) attached to the crankshaft. As the teeth of the reluctor wheel pass by the sensor, they induce a voltage signal. This signal is then sent to the vehicle's Engine Control Unit (ECU), which uses this information to determine engine RPM and piston position for precise fuel injection and ignition timing.

3.1. Normal Operation

- A properly functioning PC808 sensor will contribute to smooth engine operation, consistent idle, and accurate engine performance.
- No warning lights related to engine management or sensor faults should be illuminated on the dashboard.

4. MAINTENANCE

The PC808 sensor is a sealed electronic component designed for durability and typically requires minimal maintenance once installed correctly.

- **Periodic Inspection:** During routine vehicle maintenance, visually inspect the sensor and its wiring for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** If the sensor or its connector becomes excessively dirty, gently clean it with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials that could damage the sensor's housing or electrical contacts.
- **Wiring Integrity:** Ensure the wiring harness connected to the sensor is not frayed, pinched, or exposed to excessive heat.

5. TROUBLESHOOTING

If you experience issues that you suspect are related to the crankshaft position sensor, consult the table below. Note that these are general guidelines, and a professional diagnosis is always recommended.

Problem	Possible Cause	Solution
Engine Cranks but Won't Start	Faulty crankshaft position sensor, damaged wiring, or incorrect installation.	Check sensor connection. Inspect wiring for damage. Test sensor with a diagnostic tool. Replace sensor if faulty.
Check Engine Light (CEL) Illuminated	Diagnostic Trouble Code (DTC) related to crankshaft position sensor (e.g., P0335).	Retrieve DTCs using an OBD-II scanner. Diagnose based on specific code. Inspect sensor and wiring.
Rough Idle or Stalling	Intermittent signal from sensor, loose connection.	Check electrical connector for secure fit. Inspect wiring for intermittent breaks.
Poor Engine Performance / Reduced Power	Inaccurate signal affecting fuel and ignition timing.	Verify sensor output with a scan tool or oscilloscope. Consider professional diagnosis.

6. SPECIFICATIONS

Key technical specifications for the Standard Motor Products PC808 Crankshaft Sensor:

Property	Value
Brand	Standard Motor Products
Model Number	PC808
Product Type	Electronic Sensor (Crankshaft Position Sensor)

Property	Value
Item Weight	0.01 Ounces (approx. 0.76 Pounds package weight)
Product Dimensions (L x W x H)	2 x 1.44 x 3.38 inches
UPC	025623402000
Manufacturer	Standard Motor Products
First Available Date	March 17, 2011

7. WARRANTY INFORMATION

Standard Motor Products stands behind the quality of its products. The PC808 Crankshaft Sensor is covered by a limited warranty against defects in materials and workmanship. Specific warranty terms, conditions, and duration may vary. For detailed warranty information, including coverage specifics and how to make a claim, please refer to the official Standard Motor Products website or contact their customer support directly.

Please retain your proof of purchase for warranty purposes.

8. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support regarding your Standard Motor Products PC808 Crankshaft Sensor, please contact the manufacturer directly:

- **Manufacturer:** Standard Motor Products
- **Official Website:** www.smpcorp.com (Please visit the official website for contact details, FAQs, and additional resources.)
- When contacting support, please be prepared to provide your product model number (PC808), vehicle make, model, and year, and a detailed description of the issue.

ASK A QUESTION ABOUT THIS MANUAL

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Question

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

Details

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

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