

Standard Motor Products KS99

Standard Motor Products KS99 Camshaft Sensor Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Standard Motor Products KS99 Camshaft Sensor. Please read this document thoroughly before proceeding with installation or use to ensure proper function and safety.

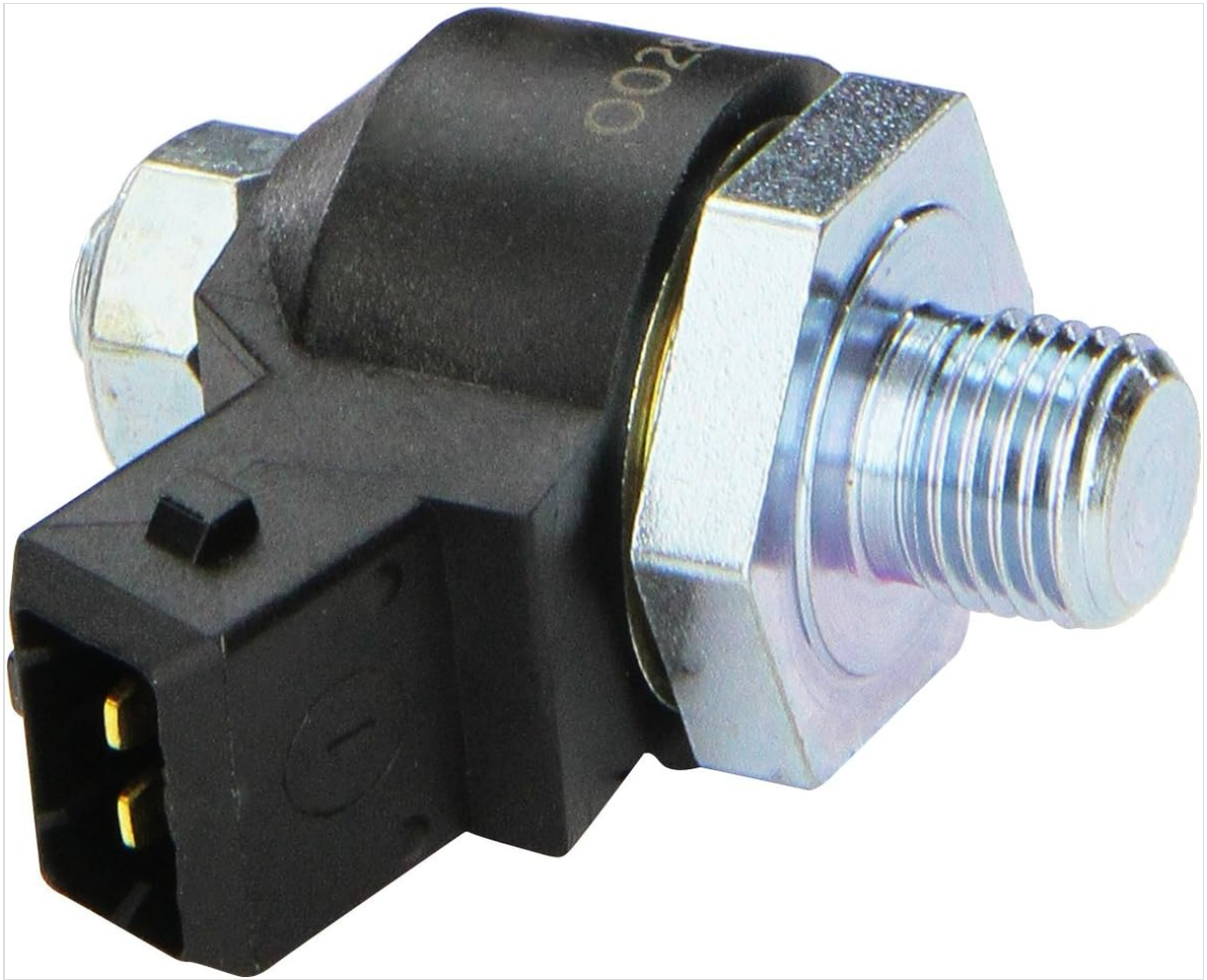
The KS99 Camshaft Sensor is engineered for precise engine timing, featuring advanced circuitry for improved accuracy and robust protection against electromagnetic interference and power spikes. Its design incorporates an integrated A/D converter and digital signal processing with a dynamically adaptive switch point to enhance operational precision.

What's in the Box:

- 1x Standard Motor Products KS99 Camshaft Sensor

2. PRODUCT OVERVIEW

The Standard Motor Products KS99 Camshaft Sensor is a critical component for your vehicle's engine management system, providing essential data for optimal engine performance.



Front view of the Standard Motor Products KS99 Camshaft Sensor, showing the sensor body, electrical connector, and threaded mounting end.

STANDARD[®]

PROFESSIONAL QUALITY AUTOMOTIVE PARTS

**PIÈCES D'AUTOMOBILE DE QUALITÉ
PROFESSIONNELLE**

**PIEZAS DE REPUESTO PARA AUTOMÓVILES
DE CALIDAD PROFESIONAL**

www.standardbrand.com



Size reference for the Standard Motor Products KS99 Camshaft Sensor, demonstrating its compact dimensions.

Key Features:

- **Enhanced Accuracy:** Integrated A/D converter and digital signal processing with a dynamically adaptive switch point.
- **System Protection:** Advanced circuitry safeguards against stray electromagnetic fields and power spikes.
- **Precise Timing:** Custom magnetic circuit programming calibrates the sensor for improved timing accuracy.
- **Reliability:** Undergoes 100% environmental, endurance, and end-of-line testing for Timing, Pulse Width, and Signal Amplitude.

3. SETUP AND INSTALLATION

Proper installation is crucial for the correct function of the camshaft sensor. Always consult your vehicle's specific service manual for detailed instructions and torque specifications.

Safety Precautions:

- Always disconnect the vehicle's battery before beginning any electrical work.
- Wear appropriate personal protective equipment, including safety glasses.
- Ensure the engine is cool before working on engine components.

Tools Required:

- Wrench or socket set (appropriate size for sensor mounting bolt)
- Torque wrench (for proper tightening)
- Diagnostic scanner (optional, for clearing codes)

Installation Procedure:

1. **Locate Sensor:** Identify the location of the existing camshaft position sensor on your vehicle. Refer to your vehicle's service manual for the exact position.
2. **Disconnect Connector:** Carefully disconnect the electrical connector from the old sensor.
3. **Remove Old Sensor:** Use the appropriate wrench or socket to remove the mounting bolt(s) and then carefully extract the old sensor from its housing.
4. **Clean Mounting Surface:** Ensure the sensor mounting surface is clean and free of debris or old gasket material.

5. **Install New Sensor:** Insert the new Standard Motor Products KS99 sensor into the mounting location, ensuring it seats correctly.
6. **Tighten Bolt(s):** Install the mounting bolt(s) and tighten them to the vehicle manufacturer's specified torque. Overtightening can damage the sensor or housing.
7. **Reconnect Electrical Connector:** Securely attach the electrical connector to the new sensor.
8. **Reconnect Battery:** Reconnect the vehicle's battery.
9. **Clear Codes (Optional):** If a Check Engine Light was present, use a diagnostic scanner to clear any stored diagnostic trouble codes (DTCs).
10. **Test Operation:** Start the engine and verify proper operation. Check for any warning lights or unusual engine behavior.

4. OPERATING INSTRUCTIONS

The Standard Motor Products KS99 Camshaft Sensor operates automatically once correctly installed. Its primary function is to monitor the rotational position of the camshaft and transmit this data to the engine control unit (ECU).

The ECU uses this information, along with crankshaft position data, to precisely control fuel injection and ignition timing, ensuring optimal engine performance, fuel efficiency, and emissions control.

Proper operation is indicated by smooth engine performance, consistent power delivery, and the absence of any engine warning lights related to camshaft position or engine timing.

5. MAINTENANCE

The Standard Motor Products KS99 Camshaft Sensor is a sealed, maintenance-free unit designed for long-term reliability. No routine servicing or lubrication is required for the sensor itself.

Periodic Checks:

- **Electrical Connector:** Periodically inspect the electrical connector and its wiring for any signs of damage, corrosion, or loose connections. Ensure the connector is securely seated.
- **Mounting Security:** Verify that the sensor's mounting bolt(s) remain tight and secure. Vibrations can sometimes loosen fasteners over time.
- **Cleanliness:** While the sensor is robust, excessive buildup of dirt or oil around the sensor head can potentially interfere with its operation. Clean the area if necessary, avoiding harsh chemicals.

6. TROUBLESHOOTING

If you experience issues after installing the KS99 Camshaft Sensor, consider the following troubleshooting steps:

Common Symptoms of a Faulty Camshaft Sensor:

- **Check Engine Light:** Illumination of the Check Engine Light with a diagnostic trouble code (DTC) related to the camshaft position sensor (e.g., P0340, P0341).
- **Rough Idling or Stalling:** Inconsistent engine speed at idle or the engine unexpectedly shutting off.
- **Difficulty Starting:** Prolonged cranking or failure to start, especially when the engine is warm.
- **Reduced Engine Performance:** Noticeable loss of power, poor acceleration, or decreased fuel economy.

Troubleshooting Steps:

- 1. **Verify Installation:** Double-check that the sensor is securely mounted and the electrical connector is fully seated and free from corrosion.
- 2. **Inspect Wiring:** Examine the wiring harness leading to the sensor for any cuts, fraying, or damage.
- 3. **Check for Other Codes:** Use a diagnostic scanner to check for any other related DTCs that might indicate a broader issue.
- 4. **Consult Vehicle Manual:** Refer to your vehicle's service manual for specific diagnostic procedures for the camshaft position sensor.
- 5. **Professional Assistance:** If issues persist after performing these checks, it is recommended to consult a qualified automotive technician for further diagnosis and repair.

7. SPECIFICATIONS

Brand	Standard Motor Products
Model	KS99 Camshaft Sensor
Material	Metal
Item Dimensions (L x W x H)	2 x 1.44 x 3.38 inches
Item Weight	0.32 ounces
Mounting Type	Plug In Mount
Output Type	NPN, PNP, Push-Pull
UPC	091769388379
Country of Origin	China

8. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or to inquire about replacement parts, please refer to the official Standard Motor Products website or contact their customer service department directly. It is recommended to retain your purchase receipt for any warranty claims.

You can typically find contact information and support resources on the manufacturer's official website: www.standardbrand.com