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› NTK Crankshaft Position Sensor EH0320 User Manual

NTK EH0320

NTK Crankshaft Position Sensor EH0320 User Manual

Model: EH0320

1. PRODUCT OVERVIEW

The NTK Crankshaft Position Sensor EH0320 is a critical component designed to accurately measure the rotational speed and position of your vehicle's crankshaft. This information is vital for the Engine Control Module (ECM) to precisely time fuel injection and ignition, ensuring optimal engine performance and efficiency.

Engineered with advanced technology, this sensor features a robust circuit board for enhanced durability and precision-wound, coated-copper windings for extended longevity. Its magnet size and strength are specifically optimized to deliver precise signal output, contributing to reliable engine operation. Each NTK crankshaft position sensor undergoes rigorous 100% thermo-shock and vibration testing to guarantee superior performance even in extreme operating conditions.



Figure 1: Front view of the NTK Crankshaft Position Sensor EH0320. This image shows the main body of the sensor, including the electrical connector and the metallic sensing tip.

Key Features:

- Communicates crankshaft position and speed to the ECM for precise fuel injection and ignition timing.
- Robust circuit board design for increased durability.
- Precision-wound, coated-copper windings for extended longevity.
- Optimized magnet size and strength for accurate signal output.
- 100% thermo-shock and vibration tested for reliable performance in harsh environments.

2. PACKAGE CONTENTS

Upon opening the package, please verify that all components are present and undamaged.

- 1 x NTK Crankshaft Position Sensor EH0320

If any items are missing or damaged, please contact your retailer or NTK customer support immediately.

3. INSTALLATION AND SETUP

Important Safety Information: Before beginning any installation, ensure the vehicle's ignition is off and the battery is disconnected to prevent electrical shock or damage to vehicle systems. Always refer to your vehicle's specific service manual for detailed instructions and torque specifications related to crankshaft position sensor replacement.

1. **Locate the Existing Sensor:** Identify the location of the crankshaft position sensor on your vehicle. This typically requires consulting your vehicle's service manual.
2. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old sensor. Avoid pulling on the wires.
3. **Remove Old Sensor:** Using the appropriate tools, unbolt or unclip the old crankshaft position sensor from its mounting location.
4. **Inspect Mounting Area:** Clean the mounting surface to ensure proper seating of the new sensor. Check for any debris or damage.
5. **Install New Sensor:** Carefully insert the new NTK EH0320 sensor into the mounting hole. Ensure it seats correctly.
6. **Secure Sensor:** Fasten the sensor using the original bolt(s) or clip(s). Tighten to the vehicle manufacturer's specified torque. Overtightening can damage the sensor or mounting.
7. **Connect Electrical Connector:** Reconnect the electrical connector to the new sensor, ensuring a secure and positive connection.
8. **Reconnect Battery:** Reconnect the vehicle's battery.
9. **Test Operation:** Start the vehicle and check for any diagnostic trouble codes (DTCs) or abnormal engine operation. A scan tool may be required to clear old codes.



Figure 2: Side view of the NTK Crankshaft Position Sensor EH0320, showing the mounting tab and electrical connector orientation.

4. OPERATING PRINCIPLES

The NTK Crankshaft Position Sensor EH0320 operates on a magnetic principle. As the crankshaft rotates, a reluctor wheel (or tone wheel) with teeth passes by the sensor's magnetic tip. This movement induces a voltage signal in the sensor's coil. The frequency and pattern of this signal are interpreted by the ECM to determine the crankshaft's rotational speed (RPM) and its exact angular position.

This precise data allows the ECM to synchronize various engine functions, including:

- Fuel injector timing
- Ignition coil firing sequence
- Variable valve timing (if applicable)
- Detection of misfires

A properly functioning crankshaft position sensor is essential for smooth engine operation, fuel efficiency, and emissions control.



Figure 3: A close-up view of the NTK Crankshaft Position Sensor EH0320, emphasizing the electrical connector and its internal pins, crucial for signal transmission.

5. MAINTENANCE

Crankshaft position sensors are generally maintenance-free components. However, regular vehicle maintenance practices can help ensure their longevity and proper function:

- **Keep Electrical Connections Clean:** Periodically inspect the sensor's electrical connector for corrosion or dirt. Clean with an appropriate electrical contact cleaner if necessary.
- **Avoid Physical Damage:** Protect the sensor from physical impact during other engine bay work.
- **Monitor Engine Performance:** Pay attention to any changes in engine starting, idling, or acceleration, as these could indicate a sensor issue.

Do not attempt to disassemble or repair the sensor, as this will void any warranty and may lead to improper function.



Figure 4: Another side perspective of the NTK Crankshaft Position Sensor EH0320, illustrating the sensor's body and the mounting point for secure installation.

6. TROUBLESHOOTING

If you suspect an issue with your crankshaft position sensor, common symptoms may include:

- Engine cranking but not starting
- Intermittent stalling
- Rough idling or misfires
- Check Engine Light (CEL) illuminated with related diagnostic trouble codes (DTCs) such as P0335 (Crankshaft

Position Sensor 'A' Circuit Malfunction).

- Reduced fuel economy or power

Troubleshooting Steps:

1. **Check for DTCs:** Use an OBD-II scanner to retrieve any stored diagnostic trouble codes. This is the most effective first step.
2. **Inspect Wiring and Connector:** Visually inspect the sensor's wiring harness and electrical connector for any signs of damage, fraying, corrosion, or loose connections.
3. **Verify Power and Ground:** With a multimeter, check for proper power supply and ground at the sensor's connector (refer to your vehicle's wiring diagram).
4. **Sensor Signal Test:** A professional technician can use an oscilloscope to verify the sensor's signal output while the engine is cranking or running.
5. **Reluctor Wheel Inspection:** In some cases, damage to the crankshaft reluctor wheel can cause sensor issues. This typically requires more extensive inspection.

If troubleshooting indicates a faulty sensor, replacement with a genuine NTK EH0320 sensor is recommended.

7. SPECIFICATIONS

Attribute	Value
Brand	NTK
Model Number	EH0320
Manufacturer Part Number	EH0320
OEM Part Number	PC86
Item Weight	0.09 Pounds (approx. 1.44 ounces)
Package Dimensions	2.63 x 1.75 x 1.5 inches
Style	Magnet, Robust
Measurement Accuracy	±1°
Output Type	Digital
Specific Uses	Crankshaft Position Sensing
UPC	087295731840

8. WARRANTY AND SUPPORT

Specific warranty details for the NTK Crankshaft Position Sensor EH0320 are typically provided at the point of purchase or can be found on the official NTK website. Please retain your proof of purchase for warranty claims. For technical support, installation assistance, or warranty inquiries, please contact NTK customer service or your authorized retailer. Always provide the model number (EH0320) and any relevant vehicle information when seeking support.

You can visit the official NTK store for more information:[NTK Official Store](#)

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