DOICOO 2769050700 PC1003 2761530128 235-1713

DOICOO Crankshaft Position Sensor Instruction Manual

Brand: DOICOO | Model: 2769050700 PC1003 2761530128 235-1713

1. Product Overview

The DOICOO Crankshaft Position Sensor is an essential component in your vehicle's engine management system. It monitors the rotational speed and position of the crankshaft, providing critical data to the Engine Control Unit (ECU). This information is used to determine engine speed, piston position, and ultimately, to control ignition timing and fuel injection for optimal engine performance and efficiency.



Figure 1: Front view of the DOICOO Crankshaft Position Sensor, showcasing its compact design and electrical connector.

2. Vehicle Compatibility

This crankshaft position sensor is compatible with various Mercedes-Benz models. Please verify your vehicle's specific year

and model against the list below to ensure proper fitment.

- Mercedes-Benz CL550: 2011-2014 (4.6L 4663CC V8 Turbocharged)
- Mercedes-Benz CL63 AMG: 2011-2014 (5.5L 5461CC V8 Turbocharged)
- Mercedes-Benz CLS550: 2012-2015 (4.6L 4663CC V8 Turbocharged)
- Mercedes-Benz CLS63 AMG: 2012-2014 (5.5L 5461CC V8 Turbocharged)
- Mercedes-Benz CLS63 AMG S: 2014-2015 (5.5L 5461CC V8 Turbocharged)
- Mercedes-Benz E250: 2014-2015 (2.1L 2143CC 131Cu. In. I4 DIESEL DOHC Turbocharged)
- Mercedes-Benz E300: 2012-2013 (3.5L 3498CC V6), 2008-2009 (3.0L 2996CC V6)
- Mercedes-Benz E350: 2012-2015 (3.5L 3498CC V6), 2011-2013 (3.0L 2987CC V6 DIESEL DOHC Turbocharged From 6/1/2011)
- Mercedes-Benz E400: 2013-2015 (3.5L 3498CC V6 ELECTRIC)
- Mercedes-Benz E550: 2012-2014 (4.6L 4663CC V8 Turbocharged)
- Mercedes-Benz E63 AMG: 2012-2015 (5.5L 5461CC V8 Turbocharged)
- Mercedes-Benz E63 AMG S: 2014-2015 (5.5L 5461CC V8 Turbocharged)

3. Key Features

- **Stable Performance:** Engineered for consistent and reliable operation.
- **Durable Construction:** Made from high-quality metal and materials for long-lasting life.
- **OEM Standards:** Designed to meet or exceed original equipment manufacturer specifications.
- **Easy Installation:** Direct replacement design, often requiring no special tools or modifications.
- **Accurate Signal Transmission:** Provides precise reference pulse signals to the ECU for accurate engine control.



Figure 2: Side view of the sensor, highlighting the robust metal construction and connector.

4. Installation Guide

Attention: Please use the appropriate shop manual for your specific vehicle to obtain detailed instructions. If you do not have an installation manual or sufficient skills to install this part, it is recommended that you seek assistance from a qualified mechanic.

1. **Diagnostic:** Use a diagnostic tool to identify the faulty crankshaft position sensor by checking trouble codes.
2. **Removal:** Carefully disconnect the wiring connector and remove the old sensor from its mounting location.
3. **Installation:** Reinstall the new DOICOO Crankshaft Position Sensor, ensuring it is securely seated and the electrical connector is properly attached.
4. **Clear Codes:** After installation, clear any stored trouble codes using a diagnostic tool.

Your browser does not support the video tag.

Video 1: This video illustrates the general function and components of engine camshaft and crankshaft position sensors, providing a visual aid for understanding their role in engine operation and installation context.

5. Operating Principles

The crankshaft position sensor operates by detecting the rotational speed and exact position of the crankshaft. It typically uses a magnetic pickup or Hall effect sensor to read a reluctor wheel (or tone wheel) attached to the crankshaft. As the teeth of the reluctor wheel pass the sensor, they create a series of electrical pulses. The ECU interprets these pulses to determine the engine's RPM and the precise position of each piston. This data is crucial for synchronizing ignition timing and fuel injection, ensuring the engine runs smoothly and efficiently.



Figure 3: View of the sensor's electrical connector, designed for a secure and precise connection to the vehicle's wiring harness.

6. Maintenance

Crankshaft position sensors are generally maintenance-free components. However, regular vehicle maintenance checks can help identify potential issues early. Ensure the sensor's wiring harness is free from damage, corrosion, or loose connections. Keep the area around the sensor clean from excessive oil, dirt, or debris, which could interfere with its operation.

7. Troubleshooting

Common symptoms of a failing crankshaft position sensor include:

- Engine cranking but not starting.
- Intermittent stalling.
- Rough idling or misfires.
- Check Engine Light illumination (with codes such as P0335, P0336, etc.).
- Reduced engine power or poor acceleration.

If you experience these symptoms, it is recommended to:

1. Scan the vehicle's ECU for diagnostic trouble codes (DTCs).
2. Inspect the sensor and its wiring for visible damage or corrosion.
3. Test the sensor's output signal using an oscilloscope or multimeter, following vehicle-specific service manual procedures.
4. If the sensor is confirmed faulty, replace it with a compatible part.

8. Technical Specifications

Specification	Detail
Brand	DOICOO
Material	Metal
Item Weight	0.02 Kilograms (0.634 ounces)
Style	Modern
Measurement Accuracy	±1°
Mounting Type	Flange Mount
Output Type	Electrical Signal
Manufacturer Part Number	DOCOCRSS036
OEM Part Numbers	2769050700, PC1003, 2761530128, 235-1713

9. Warranty and Support

Warranty: This product comes with a one-year warranty. If you encounter any issues with the part within the warranty period, you may be eligible for a refund or replacement. Please contact the seller directly for warranty claims.
Support: For further assistance, technical inquiries, or to report any problems, please refer to the contact information provided by your retailer or the DOICOO official support channels. Always provide your product model number and purchase details when seeking support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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.

Submit question