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Bosch 15337

BOSCH 15337 Premium OE Fitment Oxygen Sensor User Manual

Model: 15337 | Brand: Bosch

1. Product Overview

The Bosch 15337 Premium OE Fitment Oxygen Sensor is engineered to provide long-lasting, superior performance for your vehicle. Leveraging decades of manufacturing experience, each sensor undergoes rigorous testing to ensure it meets Bosch's high standards for quality and functionality.
Key features include:

- **Superior Performance:** Designed for optimal engine efficiency and reduced emissions.
- **Factory Tested:** Each sensor is 100% tested for full functionality before leaving the factory.
- **Durable Construction:** Features a stainless steel body that is fully submersible and sealed to protect against exhaust emission damage, ensuring a longer service life.
- **Fast-Acting Heater:** Optimizes sensor operation on Planar and 3, 4, and 5 wire Thimble type sensors, allowing the oxygen sensor to reach its operating temperature quickly for optimum performance.
- **Easy Installation:** Equipped with true direct-fit OE type connectors and harnesses, along with necessary gaskets or crush washers, for simple and hassle-free installation.

Figure 1: Front view of the Bosch 15337 Oxygen Sensor, showing the sensor tip and the electrical connector.

2. Safety Information

Always prioritize safety when working on your vehicle. Failure to follow these guidelines may result in injury or damage to the vehicle.

- Ensure the vehicle's engine is cool before attempting installation to avoid burns from hot engine components or exhaust.
- Disconnect the vehicle's battery before starting any electrical work to prevent accidental short circuits.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Use proper tools for removal and installation. Avoid forcing components.

- If you are unsure about any step, consult a qualified automotive technician.
- Keep children and pets away from the work area.

3. Package Contents

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

- 1 x Bosch 15337 Oxygen Sensor
- (Gaskets or crush washers as necessary for installation, pre-attached or included)

4. Installation

This section provides general guidance for installing the Bosch 15337 Oxygen Sensor. Specific procedures may vary by vehicle model. Refer to your vehicle's service manual for detailed instructions.

4.1 Tools Required

- Oxygen sensor socket or wrench
- Ratchet
- Torque wrench (recommended)
- Anti-seize compound (if not pre-applied to new sensor threads)
- Wire brush (for cleaning threads, if necessary)
- Safety glasses and gloves

4.2 Installation Steps

1. **Prepare the Vehicle:** Ensure the engine is cool. Safely lift and support the vehicle if necessary to access the sensor. Disconnect the negative terminal of the vehicle's battery.
2. **Locate the Old Sensor:** Identify the oxygen sensor(s) that need replacement. Oxygen sensors are typically located in the exhaust system, either before (upstream) or after (downstream) the catalytic converter.
3. **Disconnect Electrical Connector:** Carefully disconnect the electrical connector from the old oxygen sensor. Avoid pulling on the wires.
4. **Remove Old Sensor:** Using an oxygen sensor socket or wrench, loosen and remove the old sensor. Be aware that sensors can be very tight due to heat and corrosion.
5. **Inspect Mounting Area:** Clean any debris or corrosion from the sensor bung threads in the exhaust pipe.
6. **Prepare New Sensor:** The Bosch 15337 sensor typically comes with anti-seize compound pre-applied to the threads. If not, apply a thin layer of high-temperature anti-seize compound to the threads of the new sensor, being careful not to get any on the sensor tip.
7. **Install New Sensor:** Carefully thread the new Bosch 15337 sensor into the exhaust bung by hand to prevent cross-threading. Once hand-tight, use the oxygen sensor socket or wrench to tighten it to the manufacturer's specified torque. Refer to your vehicle's service manual for the correct torque specification.
8. **Connect Electrical Connector:** Reconnect the electrical connector to the new sensor, ensuring it clicks securely into place. Route the wiring away from hot exhaust components.
9. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
10. **Test Operation:** Start the vehicle and check for any illuminated check engine lights or error codes. A short drive cycle may be required for the vehicle's computer to re-learn sensor readings.

Figure 2: Side view of the Bosch 15337 Oxygen Sensor, highlighting the threaded section for installation into the exhaust system.

Figure 3: Close-up view of the electrical connector on the Bosch 15337 Oxygen Sensor, designed for direct OE fitment.

5. Operation

The oxygen sensor (O2 sensor) is a critical component of your vehicle's engine management system. It measures the amount of oxygen in the exhaust gas and sends this information to the engine control unit (ECU).
Based on the O2 sensor's readings, the ECU adjusts the air-fuel mixture to optimize combustion, ensuring efficient fuel consumption and reduced harmful emissions. A properly functioning oxygen sensor is essential for maintaining engine performance, fuel economy, and compliance with emission standards.

6. Maintenance

Oxygen sensors are wear-and-tear items and have a finite lifespan. It is critical that oxygen sensors are replaced at the suggested intervals provided by vehicle manufacturers, typically every 60,000 to 100,000 miles, or as indicated by your vehicle's maintenance schedule.
Following these recommendations will prevent long-term damage to your vehicle's engine, reduce harmful carbon dioxide (CO2) emissions, and help maintain optimal fuel efficiency.

7. Troubleshooting

A failing or faulty oxygen sensor can lead to various issues. If you experience any of the following symptoms, consider inspecting or replacing your oxygen sensor:

- **Check Engine Light:** The most common indicator. Diagnostic trouble codes (DTCs) related to oxygen sensor performance (e.g., P0133, P0171, P0420) will often be stored.
- **Decreased Fuel Economy:** An inaccurate sensor can cause the engine to run too rich or too lean, leading to increased fuel consumption.
- **Rough Idling or Stalling:** Incorrect air-fuel mixture can affect engine smoothness.
- **Increased Emissions:** A faulty sensor can lead to higher levels of pollutants in the exhaust.
- **Failed Emissions Test:** Directly related to increased emissions.
- **Sulfur Smell from Exhaust:** An overly rich mixture can cause a rotten egg smell.

If the check engine light is on, it is recommended to have the vehicle scanned for diagnostic trouble codes (DTCs) to confirm the issue before replacing the sensor.

8. Specifications

Attribute	Value
Brand	Bosch
Model Number	15337
Material	Stainless Steel
Item Weight	1.6 ounces
Product Dimensions (L x W x H)	11.4 x 6.3 x 4.6 inches

Attribute	Value
Style	Original Equipment
Mounting Type	Flange Mount
Output Type	Push-Pull
Specific Uses For Product	automotive_engine
Upper Temperature Rating	1200 Degrees Fahrenheit
UPC	028851153379
Manufacturer Part Number	15337
OEM Part Number	392103C820

9. Compatibility

The Bosch 15337 Oxygen Sensor is compatible with select vehicle models. Always verify specific fitment details, including sensor position (upstream/downstream), with your vehicle's manufacturer specifications or a reliable fitment checker before purchase and installation.

Compatible Vehicles:

- **HYUNDAI:**
  - 2006-2011 Azera
  - 2007-2008 Entourage
  - 2010-2012 Genesis Coupe
  - 2007-2009 Santa Fe
  - 2006-2010 Sonata
  - 2007-2012 Veracruz
- **KIA:**
  - 2007-2009 Amanti
  - 2007-2010 Sedona

10. Warranty and Support

For information regarding product warranty, technical support, or any inquiries not covered in this manual, please contact Bosch customer service or visit the official Bosch Automotive website. Keep your purchase receipt as proof of purchase for warranty claims.
Bosch Official Website: www.boschautoparts.com

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