



BOSCH Oxygen Sensors



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Properly functioning oxygen sensors are important when it comes to fuel efficiency of your customer's vehicle. Your customer can save up to 10% a year in gasoline costs by replacing the oxygen sensor with every tune up, which is a value your customer can measure. Not only will the performance of the vehicle improve, but you will be reducing harmful exhaust emissions. Saving your customer money, cleaning the environment and taking great care of your customer sounds like a win – win – win situation, brought to you by Bosch.

Bosch. Invented For Life

Product Line -

Bosch Oxygen Sensors

Tech Specs -

1 Thimble Oxygen Sensors

Unheated thimble sensors either have one wire or two (for purposes of grounding), since they do not require power for a heater element. They use a zirconia ceramic element to generate a voltage in a rich (insufficient oxygen) gas environment. *Heated* thimble sensors have a special heating element that brings the sensor up to operating temperature in about 30-60 seconds. The additional wires to power the heater- typically a total of 3-4 wires (dependent on grounding scenario) can identify these sensors.

2 Planar Oxygen Sensors

Planar Sensors require less electrical power as the heater is integrated into the smaller sensing element. By model year 2004, planar oxygen sensors are expected to account for over 30% of all new oxygen sensor applications and by 2007 for over 50% of new oxygen sensors. These sensors also have only four wires.

3 Wideband Oxygen Sensors

This is the newest design of oxygen sensor and it offers the increased accuracy needed to meet the latest emissions requirements. Unlike all the other types of oxygen sensors, the wide-band sensor can actually measure the air/fuel ratio from 11:1 (excess fuel condition) all the way to straight air (no fuel)! (The ideal air/fuel ratio is 14.7/1.) These sensors can be identified with having five or more wires. In addition, these sensors are used with the newly developed gasoline direct injection engines.

Applications Supported -

Available for top moving Asian, European & Domestic applications

Support Items -

Bosch Spark Plugs, Bosch Wire Sets, Bosch Filters

Manufacturer Information -

About Robert Bosch Corporation

Bosch designs and produces precision automotive components and systems sold to vehicle and powertrain manufacturers worldwide. These include systems and components for gasoline and diesel engine management systems, airbag components, brake systems, telematics, as well as small motors, electrical and electronic equipment. Robert Bosch Corporation, the wholly owned subsidiary of Robert Bosch GmbH, is responsible for North American operations and is headquartered in Broadview, Illinois. Robert Bosch GmbH is headquartered in Stuttgart, Germany.



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