

Technology and Reliability That's Second to None

## SENSOR PRODUCTS

Today's vehicles feature a wide range of sensors to ensure emissions are at their lowest, tires are properly inflated, plus everything in between. DENSO has been leading the pack when it comes to sensor technology and innovation, making them the professional technician's choice as well as the industry benchmark for OE manufacturers. So, when you need to replace a sensor, count on DENSO to deliver sensors with the highest quality, reliability and durability.



### Oxygen and Air/Fuel Sensors

In the late 90s, manufacturers started adding sensors to engines to monitor various functions and reduce emissions. DENSO was one of the first companies to produce these sensors, and still today, continues to bring new technology to the industry. Millions of drivers choose DENSO First Time Fit® parts, making DENSO one of the world's largest aftermarket suppliers and the logical choice when you need an oxygen or air/fuel sensor:

- Oxygen sensors are among the most sensitive and critical components on a car's engine, and DENSO First Time Fit® oxygen sensors adhere to OE standards and operate within tight tolerances
- The superior design of our oxygen and air/fuel sensors maximizes engine performance and fuel efficiency while reducing fuel consumption and harmful emissions
- DENSO provides one of the most complete product lines in the industry

**first time fit**

The best part is peace of mind.

Quality You Can Count On

## SENSOR PRODUCTS

### Engine Management System Sensors

DENSO produces a wide range of engine management sensors that reduce emissions while improving performance. We use state-of-the-art materials and manufacturing techniques for greater strength and increased resistance to substances like fuel, engine oil and emission byproducts.

#### Camshaft and Crankshaft Position Sensors

- DENSO uses a molded IC chip that's positioned closer to the gears that makes it almost 10 times more efficient than Hall element type sensors
- DENSO offers Magnetic Resistant Element (MRE) and Magnetic Pick-Up (MPU) type sensors

#### Coolant Temperature Sensors

They sense changes in coolant temperature and communicate that vital information to the ECU and helps control fuel injection, ignition timing and transmission shifting.

- DENSO coolant temperature sensors deliver superior efficiency and unsurpassed durability

#### Manifold Absolute Pressure (MAP) Sensors

DENSO MAP sensors measure the intake manifold pressure to control the amount of fuel injected into the engine more precisely.

- DENSO MAP sensors have reduced the number of connections, improving reliability while providing optimum performance

#### Mass Air Flow (MAF) Sensors

DENSO created the world's first plug-in mass air flow sensor in 1996 and we continue to push technology to new levels of performance.

- Our mass air flow sensors use a fine platinum wire sensing element coated with a glass film to protect it from contaminants for even higher reliability while extending the life of the sensor.

#### Tire Pressure Monitoring System (TPMS) Sensors

When TPMS Sensors fail, replace them with DENSO First Time Fit® TPMS Sensors. Built specifically for each vehicle's TPMS System, our sensors install with the vehicle manufacturer's relearn process, restoring vehicles to their original condition.

- DENSO TPMS Sensors deliver quick, direct-fit installation – no cloning or programming is required
- Our TPMS sensors deliver OE quality, form, fit and battery life
- Designed specifically for each vehicle to work with its TPMS System

## The DENSO Difference

- All First Time Fit® parts are engineered to meet DENSO's high standards delivering exemplary quality and performance.
- DENSO products typically meet or exceed OE specifications.
- DENSO is always looking to improve our products, keeping us ahead of the competition.
- DENSO holds over 30,000 patents worldwide, so a lot of our technology is proprietary and cannot be copied.



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