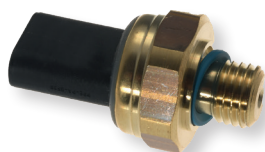


OIL PRESSURE SENSOR



ITS FUNCTION



The oil pressure sensor **measures engine oil pressure and transmits this information to the instrument panel or engine management unit (ECU)**. Its main role is to ensure correct lubrication of engine components by alerting the driver to insufficient oil pressure, which could lead to premature wear and serious mechanical damage.

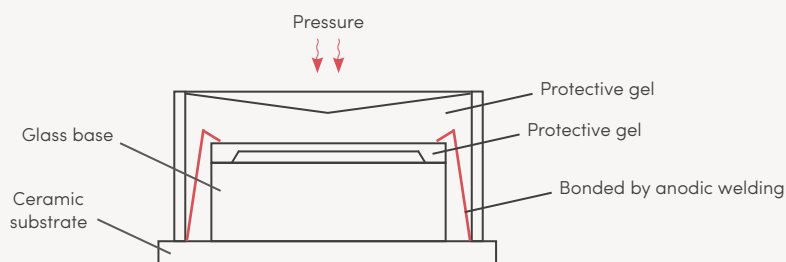
GOOD TO KNOW

The oil pressure sensor is located in the **engine's lubrication circuit**. Its exact position varies according to engine and manufacturer, but it is generally found in one of the following locations:

- **On the engine block:** screwed directly onto the crankcase.
- **Near the oil filter:** integrated into the oil filter housing.
- **On the cylinder head** (for certain engines).
- **On an oil cooler support:** near the oil cooler or pressure modulator.



ILLUSTRATION



Operation of the piezoresistive membrane



TECHNOLOGIES

There are **different technologies** on the market: the contact sensor (manocontact), the variable resistance sensor and the piezoresistive sensor.

Depending on the vehicle, the **contact sensor** and the **piezoresistive sensor** are the most widespread today.

In addition, with the rise of electrified vehicles, piezoresistive sensors are becoming the norm.



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