

FUEL PRESSURE SENSOR



ITS FUNCTION



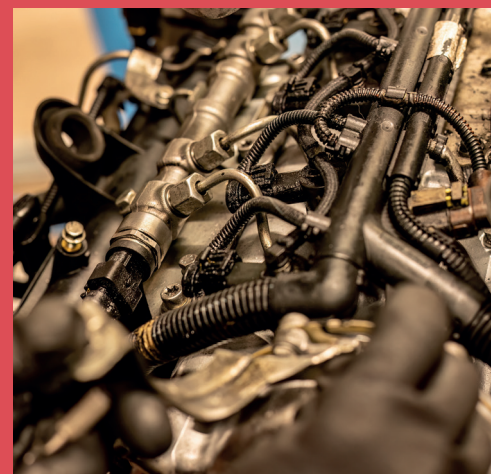
The fuel pressure sensor is a key component in the injection system of internal combustion engines. It **measures the fuel pressure in the fuel system in real time and transmits this information to the engine control unit (ECU)** to optimise injection management and provide optimum engine performance.

Its correct operation is crucial to **performance, fuel consumption and the reduction of pollutant emissions.**

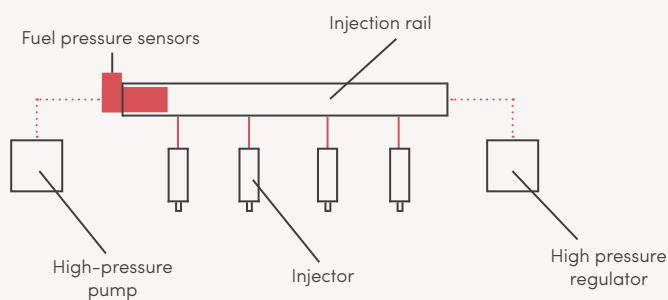
GOOD TO KNOW

The fuel pressure sensor is generally located in one of two places, depending on the type of engine:

- **In the injection rail (common rail):** in direct injection diesel and petrol engines, it is installed directly on the common rail to measure the high-pressure fuel pressure.
- **On the low-pressure circuit:** in some systems, it can be positioned before the high-pressure pump to monitor the supply pressure and ensure that the injection system is working properly.



ILLUSTRATION



TECHNOLOGIES

Fuel pressure sensors can use **several technologies**, each with its own advantages and specific applications: piezoresistive technology, strain gauge technology and capacitive technology.

Piezoresistive technology appears to be the most common on the market because of **its reliability, cost and accuracy under high pressure conditions.**

TECHNICAL HOTLINE

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