

AC PRESSURE SENSOR



ITS FUNCTION



The air conditioning pressure sensor is an essential component in a vehicle's AC management system. It **measures the pressure of the refrigerant in the circuit to ensure optimum operation of the air conditioning system**. This sensor is designed to protect the system by regulating pressures that are too high or too low, and by enabling certain circuit components to be switched on or off.

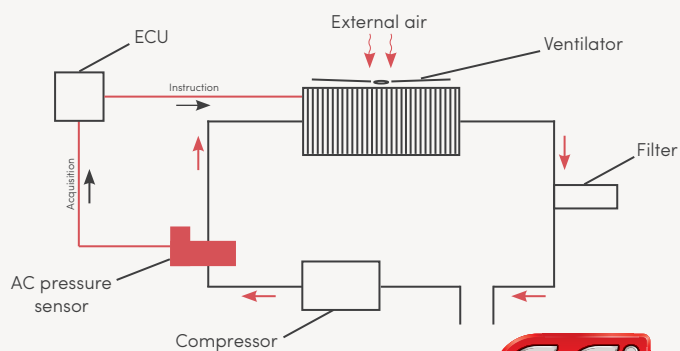
GOOD TO KNOW

The air conditioning pressure sensor is usually located in two key places in the system:

- **On the high-pressure line:** the high-pressure sensor is usually fitted between the compressor and the condenser. It monitors pressures on the compressed gas side and detects excessively high pressures.
- **On the low-pressure line:** the low-pressure sensor is often placed between the evaporator and the compressor. It detects low pressures, signalling a lack of refrigerant or a system fault.



ILLUSTRATION



TECHNOLOGIES

Air conditioning pressure sensors mainly use **technologies based on pressure detection** via mechanical or electronic sensors. The most widely used on the market is the mechanical diaphragm pressure sensor.

However, **electronic pressure sensors** are beginning to appear in recent vehicles.

TECHNICAL HOTLINE

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