

HEATED OXYGEN SENSOR (HO2S) [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

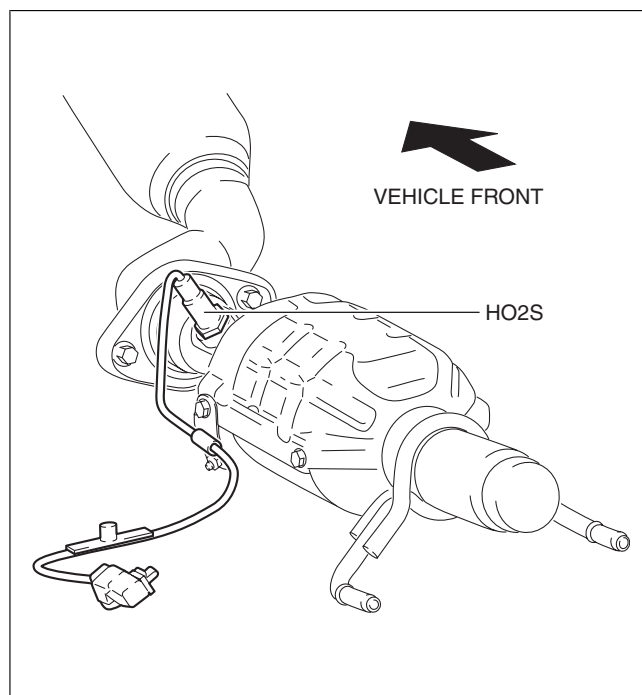
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Purpose/Function

- Detects the oxygen concentration (theoretical air/fuel ratio) in the exhaust gas as basic information for mainly determining the fuel injection amount and as information for determining the deterioration of catalytic converter.
- Detects the oxygen concentration (theoretical air/fuel ratio) in the exhaust gas and sends it to the PCM as an oxygen concentration (theoretical air/fuel ratio) signal.

Construction

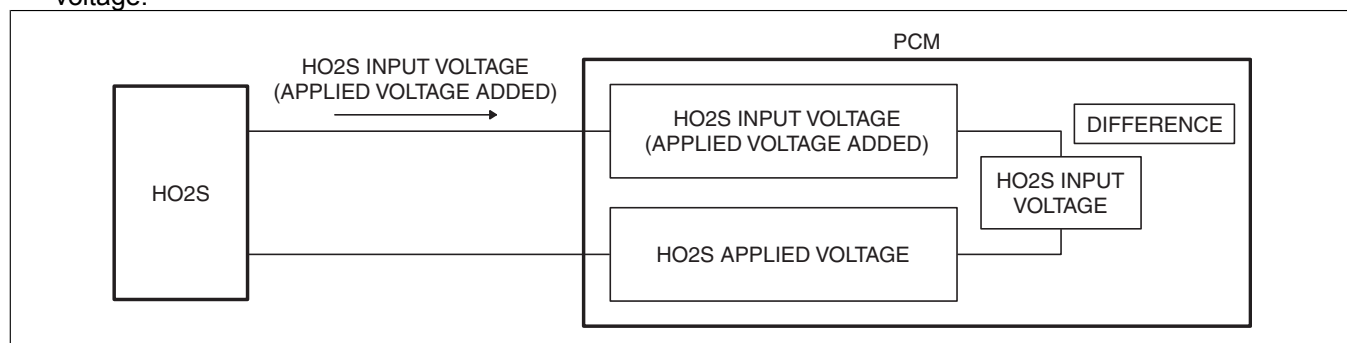
- Installed on the rear side of the exhaust manifold.
- A zirconia element has been adopted as the detecting element for detecting the oxygen concentration (theoretical air/fuel ratio).



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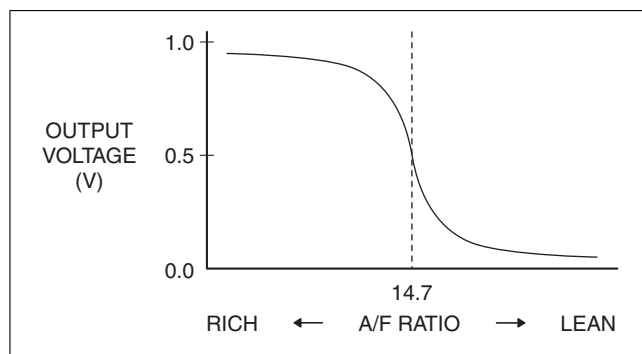
Operation

- Sends the signal, which fluctuates according to the oxygen concentration (theoretical air/fuel ratio), to the PCM.
- The PCM applies approx. 1.5 V to the HO2S input voltage to prevent incorrect diagnosis of the HO2S input voltage.



am6xun00001223

HO2S characteristic



am3uun00001714

Fail-safe

DTC No.	Fail-safe function
P0037:00	• Stops fuel feedback control
P0038:00	• Stops fuel feedback control