AIR FUEL RATIO (A/F) SENSOR [SKYACTIV-D 2.2]

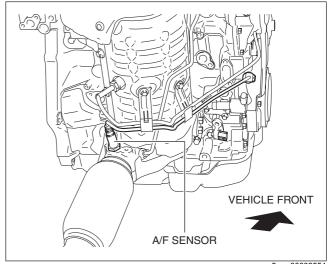
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Purpose/Function

- Detects the oxygen concentration (all-range air/fuel ratio) in the exhaust gas as basic information for mainly determining the EGR amount.
- Detects the oxygen concentration (all-range air/fuel ratio) in the exhaust gas and sends it to the PCM as an oxygen concentration (all-range air/fuel ratio) signal.

Construction

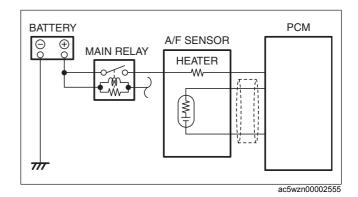
- · Installed on the rear side of the catalytic converter.
- A zirconia element has been adopted as the detecting element for detecting the oxygen concentration (all-range air/fuel ratio).



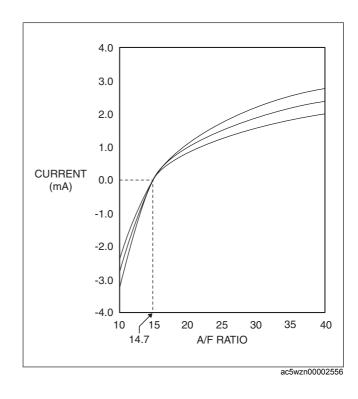
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Operation

Sends the signal, which fluctuates according to the oxygen concentration (all-range air/fuel ratio), to the PĆM.



A/F sensor characteristic



Fail-safe

DTC No.	Fail-safe function
P0030:00	PCM restricts engine torque.
	Inhibits the EGR control.
	Inhibits the diesel particulate filter regeneration control.
	Inhibits engine-stop by operating the i-stop function.
P0131:00	PCM restricts engine torque.
	Inhibits the EGR control.
	Inhibits the diesel particulate filter regeneration control.
	Inhibits engine-stop by operating the i-stop function.
P0132:00	PCM restricts engine torque.
	Inhibits the EGR control.
	Inhibits the diesel particulate filter regeneration control.
	Inhibits engine-stop by operating the i-stop function.
P0133:00	PCM restricts engine torque.
	Inhibits the EGR control.
	Inhibits the diesel particulate filter regeneration control.
	Inhibits engine-stop by operating the i-stop function.
P0134:00	PCM restricts engine torque.
	Inhibits the EGR control.
	Inhibits the diesel particulate filter regeneration control.
	Inhibits engine-stop by operating the i-stop function.