

EXHAUST GAS PRESSURE SENSOR [SKYACTIV-D 2.2]

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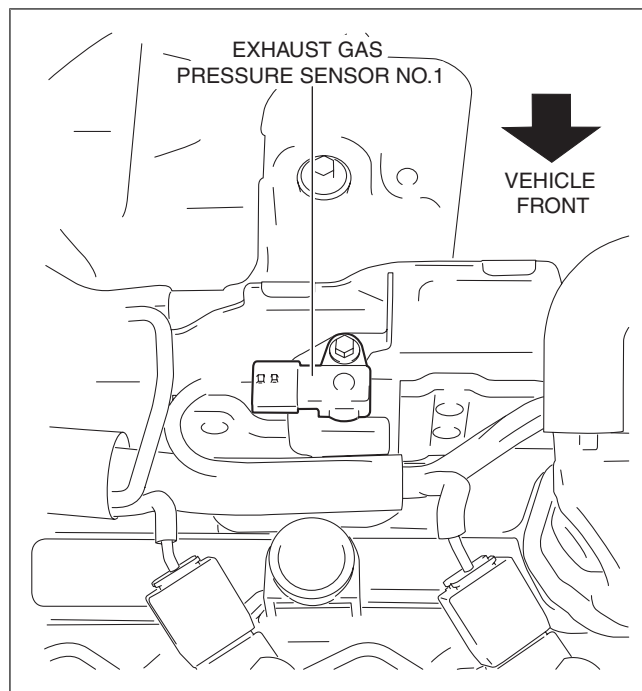
Exhaust Gas Pressure Sensor No.1

Purpose/Function

- Detects the exhaust gas pressure exhausted from the cylinder as basic information for mainly EGR control and boost control.
- Detects the exhaust gas pressure exhausted from the cylinder and sends to the PCM as an exhaust gas pressure signal.

Construction

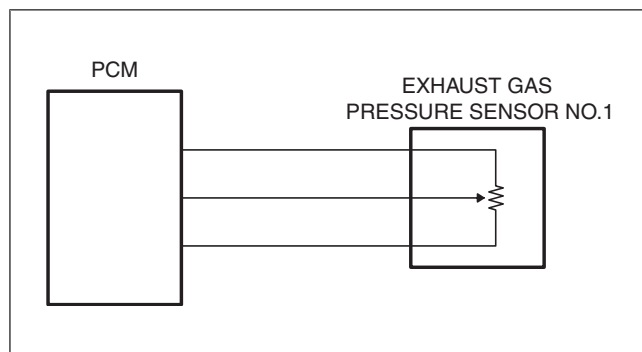
- Exhaust gas pressure sensor No.1 is installed to the cylinder head cover with the bracket.
- A semiconductor gauge has been adopted to the exhaust gas pressure sensor No.1 as the detecting element for detecting the exhaust gas pressure exhausted from the cylinder.



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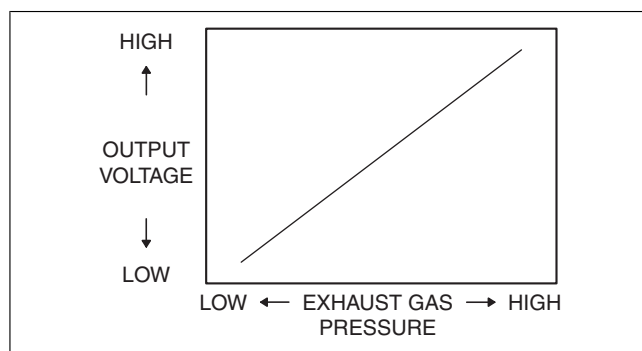
Operation

- Sends the signal, which fluctuates according to the exhaust gas pressure exhausted from the cylinder, to the PCM.



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Exhaust gas pressure sensor No.1 characteristic



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Fail-safe

DTC No.	Fail-safe function
P0472:00	<ul style="list-style-type: none">• Inhibits the EGR control.• Inhibits engine-stop by operating the i-stop function.• PCM restricts engine-transaxle integration control.
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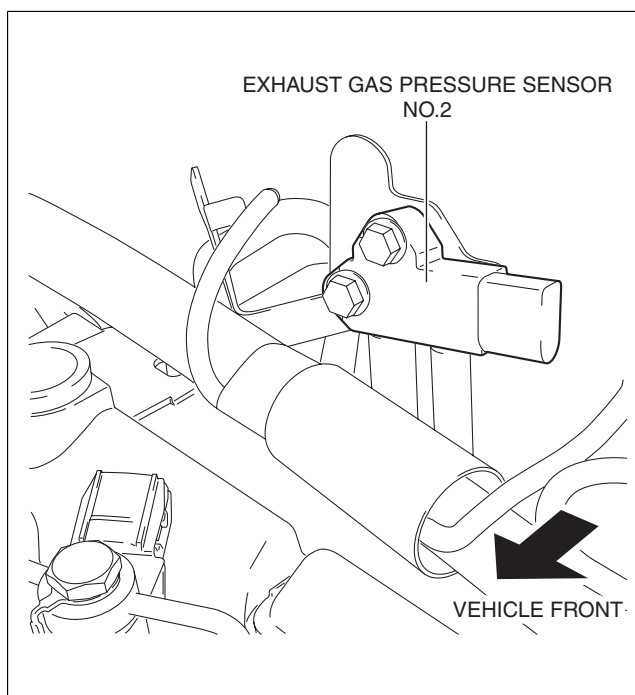
Exhaust Gas Pressure Sensor No.2

Purpose/Function

- Detects the difference in pressure between exhaust gas pressure before and after passing the diesel particulate filter as basic information for mainly diesel particulate filter control.
- Detects the difference in pressure between exhaust gas pressure before and after passing the diesel particulate filter and sends to the PCM as an exhaust gas pressure signal.

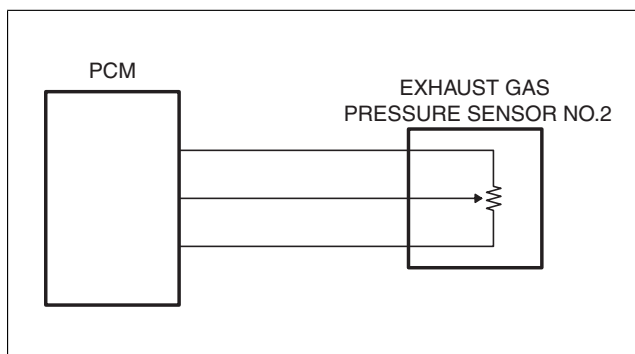
Construction

- Installed on the air hose bracket.
- A piezoelectric element has been adopted to the exhaust gas pressure sensor No.2 as the detecting element for detecting the difference in pressure between exhaust gas pressure before and after passing the diesel particulate filter.

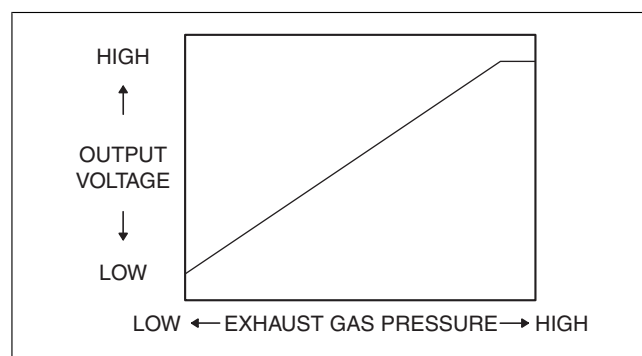


Operation

- Sends the signal, which fluctuates according to the difference in pressure between exhaust gas pressure before and after passing the diesel particulate filter, to the PCM.



Exhaust gas pressure sensor No.2 characteristic



Fail-safe

DTC No.	Fail-safe function
P2454:00	<ul style="list-style-type: none">• PCM restricts engine torque.• Inhibits the EGR control.• Inhibits the diesel particulate filter regeneration control.• Inhibits engine-stop by operating the i-stop function.• PCM restricts engine-transaxle integration control.
P2455:00	<ul style="list-style-type: none">• PCM restricts engine torque.• Inhibits the EGR control.• Inhibits the diesel particulate filter regeneration control.• Inhibits engine-stop by operating the i-stop function.• PCM restricts engine-transaxle integration control.