

MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR [SKYACTIV-D 2.2]

id0140z7006800

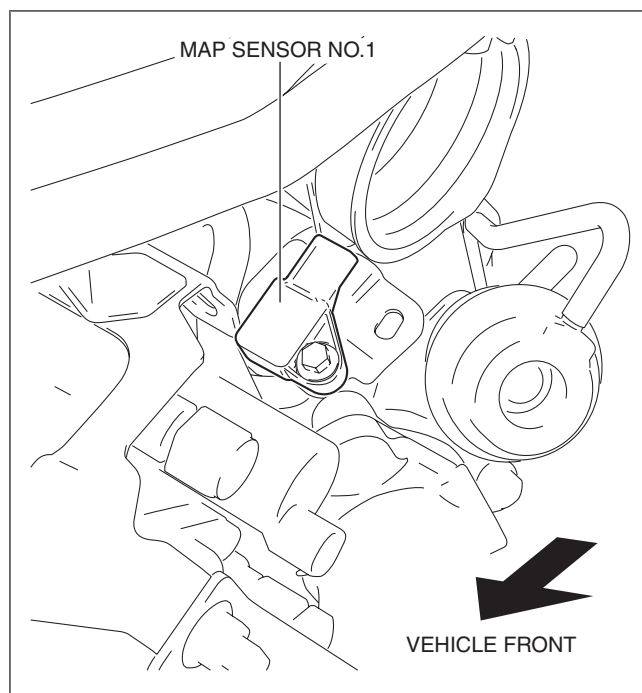
MAP Sensor No.1

Purpose/Function

- Detects the intake air pressure between the large and small-type turbos as basic information for mainly controlling the air charging pressure.
- Detects the intake air pressure between the large and small-type turbos and sends to the PCM as an intake air pressure signal.

Construction

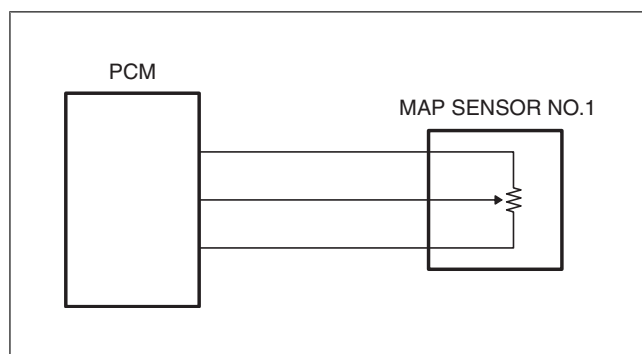
- Installed on the turbocharger.
- A semiconductor strain gauge has been adopted as the detecting element for detecting the intake air pressure.



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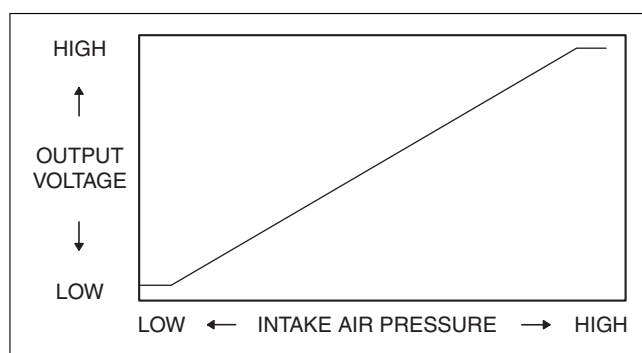
Operation

- Sends the signal, which fluctuates according to the intake air pressure, to the PCM.



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MAP sensor No.1 characteristic



ac5wzn00002448

Fail-safe

DTC No.	Fail-safe function
P0237:00	<ul style="list-style-type: none">• Inhibits engine-stop by operating the i-stop function.• PCM restricts engine-transaxle integration control.
P0238:00	<ul style="list-style-type: none">• Inhibits engine-stop by operating the i-stop function.• PCM restricts engine-transaxle integration control.

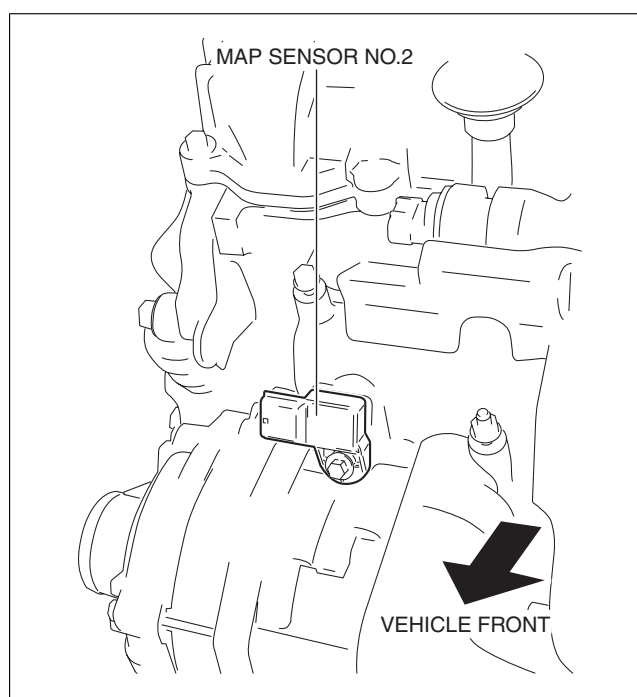
MAP Sensor No.2

Purpose/Function

- Detects the intake air pressure introduced into the cylinder as basic information for mainly determining the fuel injection amount.
- Detects the intake air pressure introduced into the cylinder and sends it to the PCM as an intake air pressure signal.

Construction

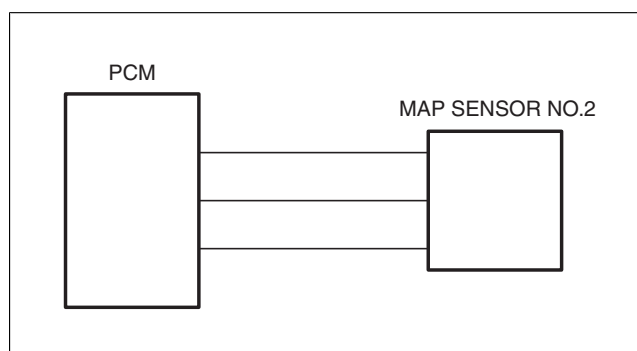
- Installed on the intake manifold.
- A semiconductor strain gauge has been adopted as the detecting element for detecting the intake air pressure.



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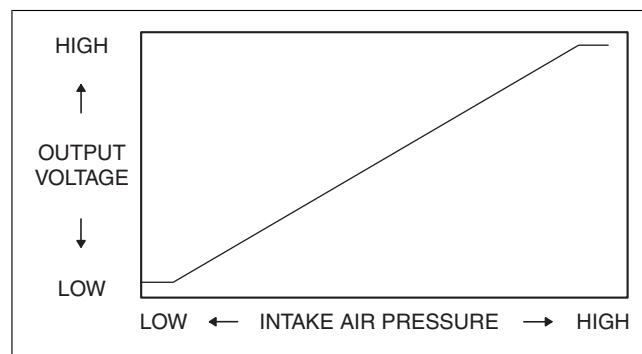
Operation

- Sends the signal, which fluctuates according to the intake air pressure, to the PCM.



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MAP sensor No.2 characteristic



Fail-safe

DTC No.	Fail-safe function
P0107:00	<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.
P0108:00	<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.