

INTAKE AIR TEMPERATURE (IAT) SENSOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id0140g2007100

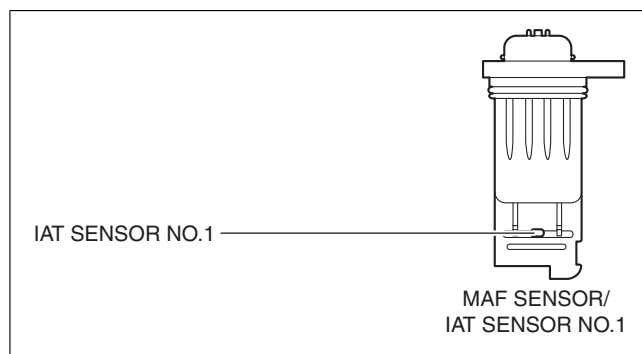
IAT Sensor No.1

Purpose/Function

- Detects the IAT before it passes through the throttle body as basic information for mainly determining the fuel injection amount.
- Detects the IAT before it passes through the throttle body and sends it to the PCM as an IAT signal.

Construction

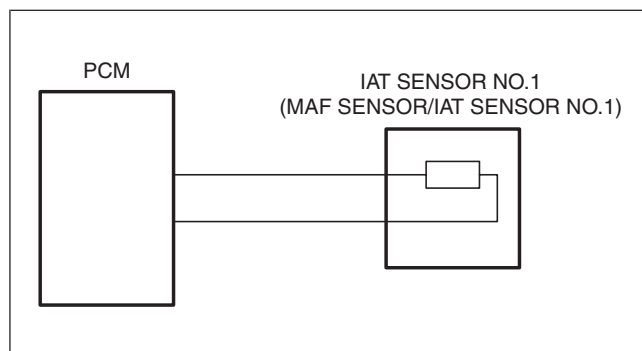
- Built into the MAF sensor.
- A cold resistor has been adopted as the detecting element for detecting the IAT.



am3uun00001676

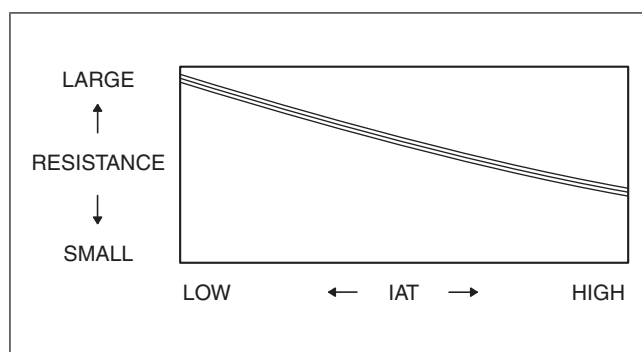
Operation

- Sends the signal, which fluctuates according to the IAT after passing through the air cleaner, to the PCM.



ac5wzn00002593

IAT sensor No.1 characteristic



ac5wzn00002594

Fail-safe

DTC No.	Fail-safe function
P0112:00	<ul style="list-style-type: none">• Fixes intake air temperature (for engine control) at 20 °C {68 °F}• Inhibits the fuel cut control during shift change.
P0113:00	<ul style="list-style-type: none">• Fixes intake air temperature (for engine control) at 20 °C {68 °F}• Inhibits the fuel cut control during shift change.

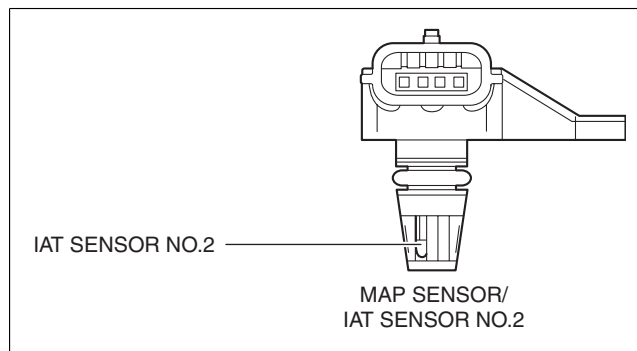
IAT Sensor No.2

Purpose/Function

- Detects the IAT (in intake manifold) after it passes through the throttle body as basic information for mainly determining the fuel injection amount.
- Detects the IAT (in intake manifold) after it passes through the throttle body and sends it to the PCM as an IAT signal.

Construction

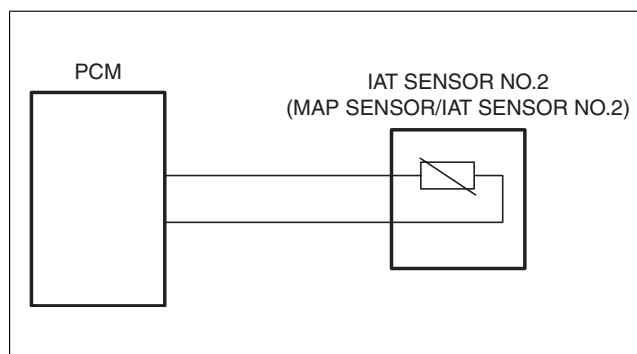
- Built into the MAP sensor.
- A cold resistor has been adopted as the detecting element for detecting the IAT.



ac5wzn00002595

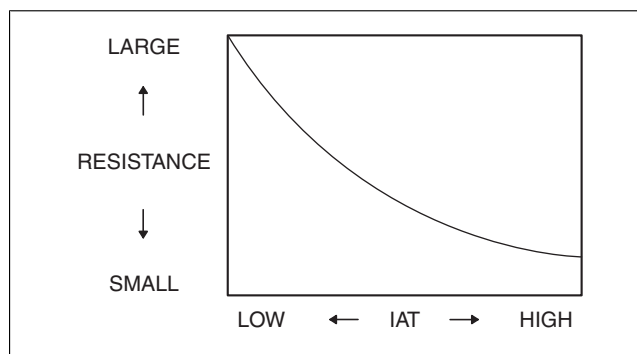
Operation

- Sends the signal, which fluctuates according to the IAT in the intake manifold, to the PCM.



ac5wzn00002596

IAT sensor No.2 characteristic



ac5wzn00002597

Fail-safe

- Function not equipped.