

BOOST AIR TEMPERATURE SENSOR [SKYACTIV-D 2.2]

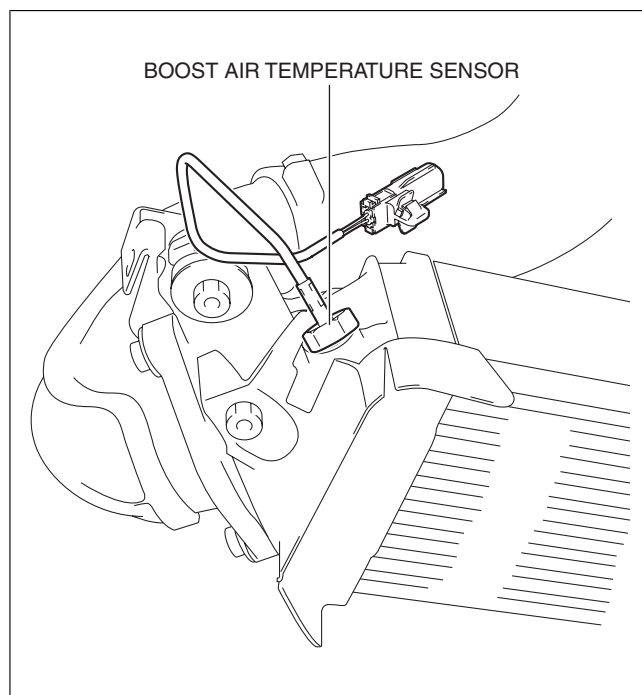
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Purpose/Function

- Detects the IAT after it passes through the charge air cooler as basic information for mainly determining the fuel injection amount.
- Detects the IAT after it passes through the charge air cooler and sends it to the PCM as an intake air temperature signal.

Construction

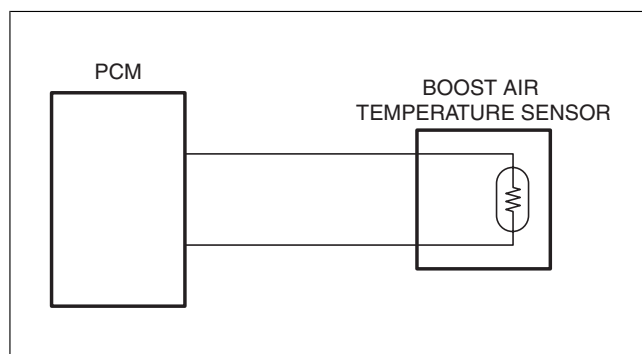
- Installed on the charge air cooler.
- A thermistor has been adopted as the detecting element for detecting the IAT.



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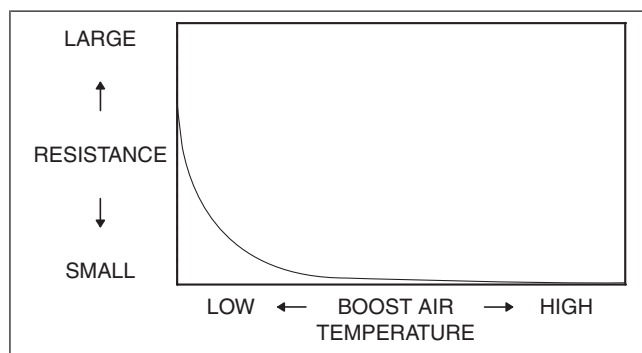
Operation

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



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Boost air temperature sensor characteristic



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Fail-safe

DTC No.	Fail-safe function
P007C:00	<ul style="list-style-type: none">• PCM restricts engine torque.• Inhibits the two-stage turbo control.• 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.
P007D:00	<ul style="list-style-type: none">• PCM restricts engine torque.• Inhibits the two-stage turbo control.• 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.