

ENGINE COOLANT TEMPERATURE (ECT) SENSOR [SKYACTIV-D 2.2]

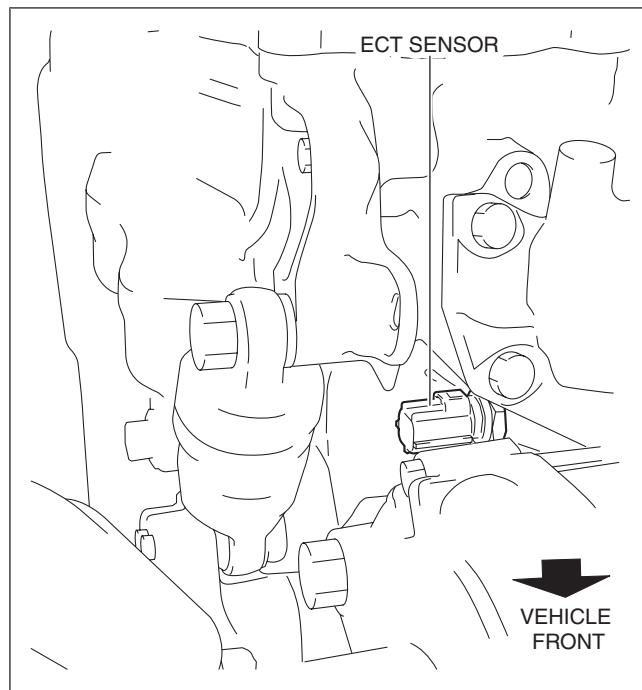
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Purpose/Function

- Detects the ECT as basic information for mainly determining the fuel injection amount.
- Detects the ECT and sends it to the PCM as an ECT signal.

Construction

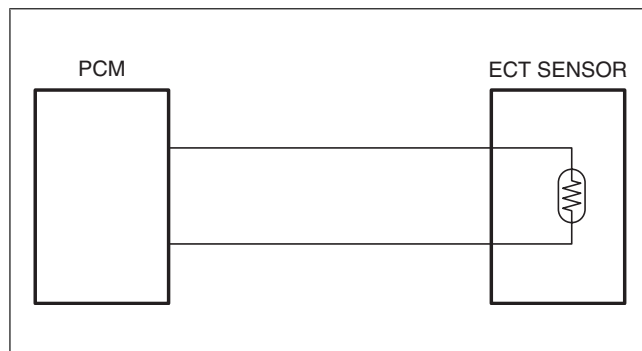
- Installed on the cylinder head.
- A thermistor has been adopted as the detecting element for detecting the ECT.



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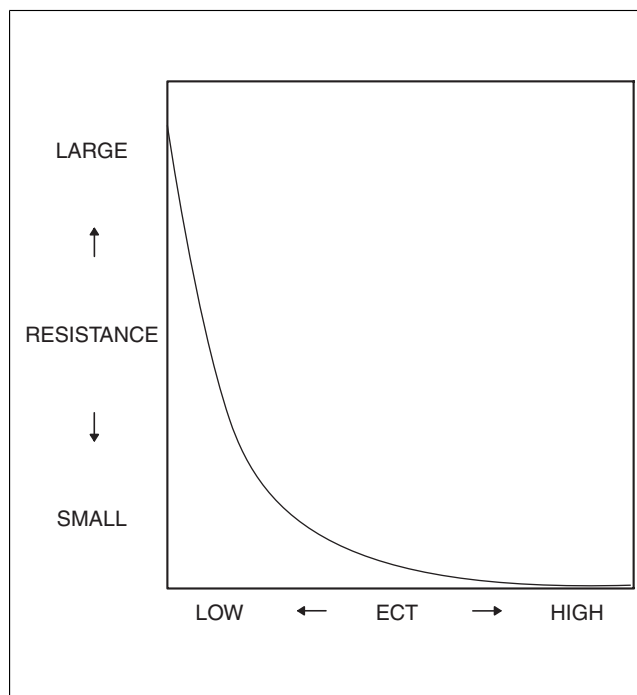
Operation

- Sends the signal, which fluctuates according to the ECT, to the PCM.



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ECT sensor characteristic



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Fail-safe

DTC No.	Fail-safe function
P0117:00	<ul style="list-style-type: none"> • PCM restricts engine torque. • Increase the idle speed. • Inhibits the two-stage turbo control. • Inhibits the EGR control. • Inhibits the diesel particulate filter regeneration control. • The fast idle up correction for the idle speed control is inhibited. • Inhibits the A/C control. • Inhibits engine-stop by operating the i-stop function. • PCM restricts engine-transaxle integration control.
P0118:00	<ul style="list-style-type: none"> • PCM restricts engine torque. • Increase the idle speed. • Inhibits the two-stage turbo control. • Inhibits the EGR control. • Inhibits the diesel particulate filter regeneration control. • The fast idle up correction for the idle speed control is inhibited. • Inhibits the A/C control. • Inhibits engine-stop by operating the i-stop function. • PCM restricts engine-transaxle integration control.