

ENGINE COOLANT TEMPERATURE (ECT) SENSOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

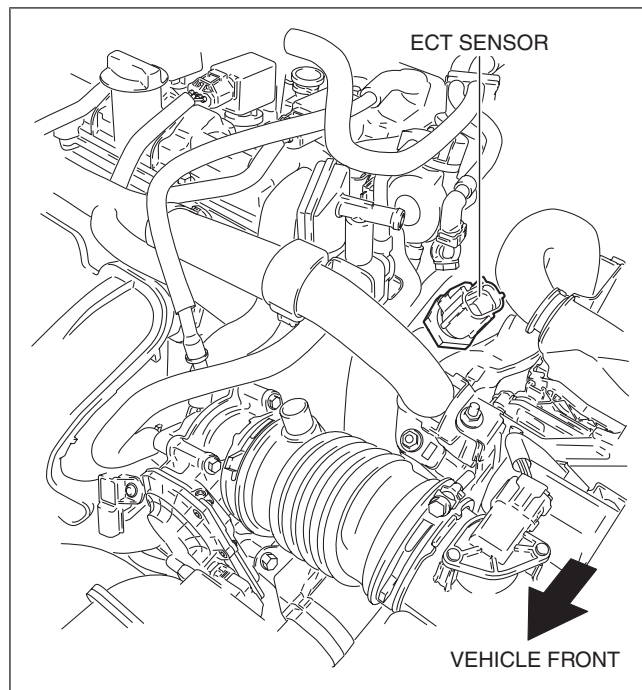
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Purpose/Function

- 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

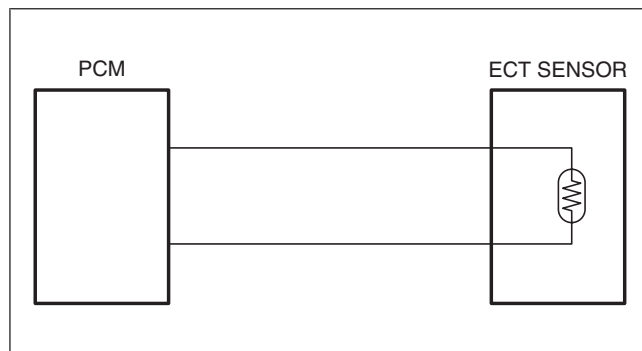
- Installed to the water outlet case.
- A thermistor has been adopted as the detecting element for detecting the ECT.



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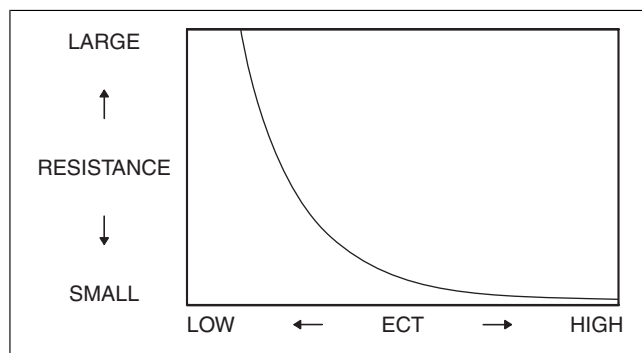
Operation

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



am3uun00001656

ECT sensor characteristic



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Fail-safe

DTC No.	Fail-safe function
P0117:00	<ul style="list-style-type: none">• Fixes water temperature for the engine control at 40 °C {104 °F}, and for the idle air control at 80 °C {176 °F}• Operates the cooling fan (high speed rotation).• Inhibits the fuel cut control during shift change.
P0118:00	<ul style="list-style-type: none">• Fixes water temperature for the engine control at 40 °C {104 °F}, and for the idle air control at 80 °C {176 °F}• Operates the cooling fan (high speed rotation).• Inhibits the fuel cut control during shift change.