

ACCELERATOR PEDAL POSITION (APP) SENSOR [SKYACTIV-D 2.2]

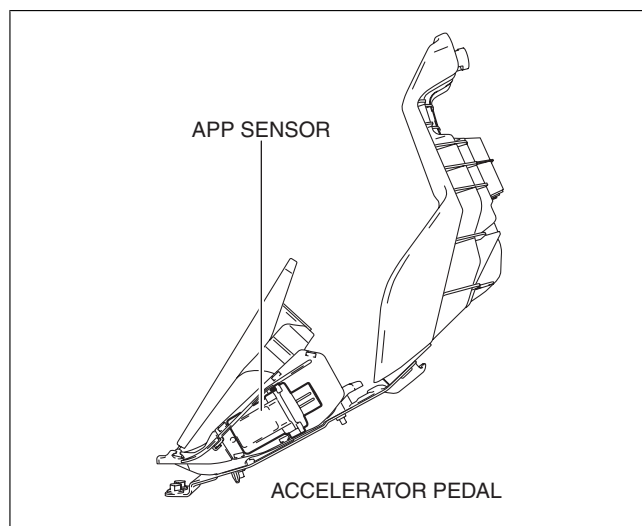
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Purpose/Function

- Detects the accelerator pedal depression amount as basic information for mainly determining the fuel injection amount.
- Detects the accelerator pedal depression amount and sends it to the PCM as an accelerator pedal opening angle signal.

Construction

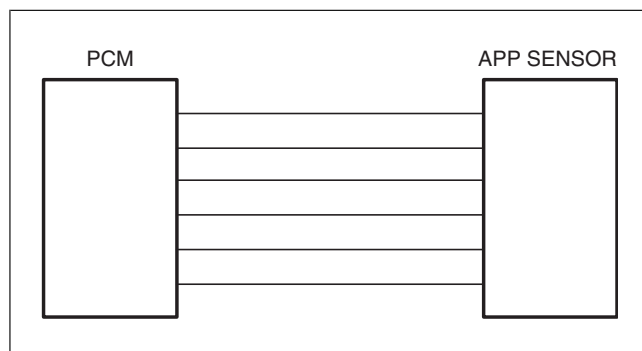
- Built into the accelerator pedal.
- A Hall element has been adopted as the detecting element for detecting the accelerator pedal depression amount.
- The APP sensor has a main sensor (No.1) and a sub sensor (No.2) for improved detection accuracy.



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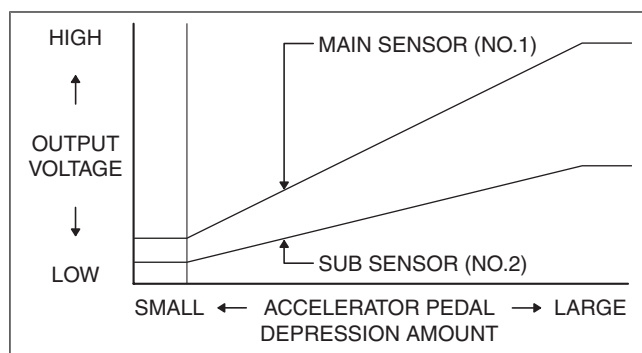
Operation

- Sends the signal, which fluctuates according to the accelerator pedal depression amount, to the PCM.



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APP sensor characteristic



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Fail-safe

DTC No.	Fail-safe function
P0121:00	<ul style="list-style-type: none"> • PCM restricts engine torque. • Regulates the upper limit of the APP sensor output. • Inhibits the EGR control. • Inhibits the diesel particulate filter regeneration control. • The fast idle up correction for the idle speed control is inhibited. • Inhibits engine-stop by operating the i-stop function.

DTC No.	Fail-safe function
P0122:00	<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.
P0123:00	<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.
P0222:00	<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.
P0223:00	<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.