

## ACCELERATOR PEDAL POSITION (APP) SENSOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

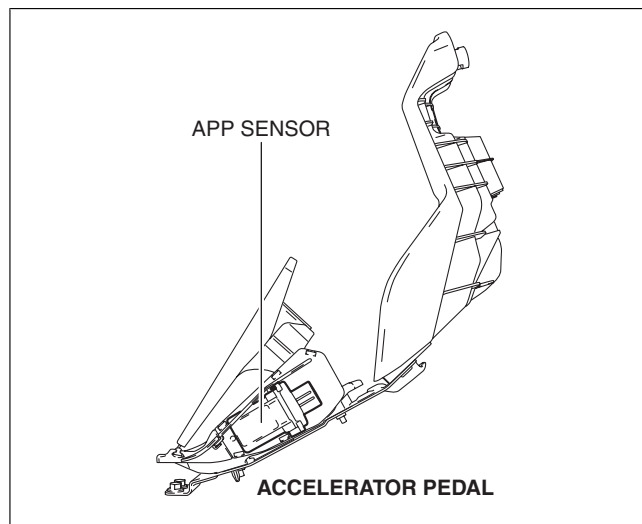
id0140g2007300

### 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

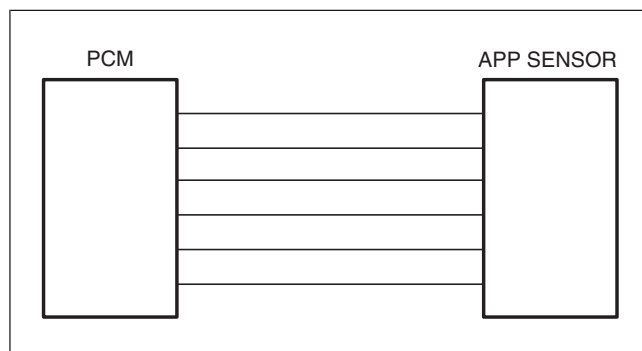
- Built into the accelerator pedal.
- A Hall element has been adopted as the detecting element for detecting the accelerator pedal depression amount.
- The APP sensor has a main sensor (No.1) and a sub sensor (No.2) for improved detection accuracy.



ac5wzn00002598

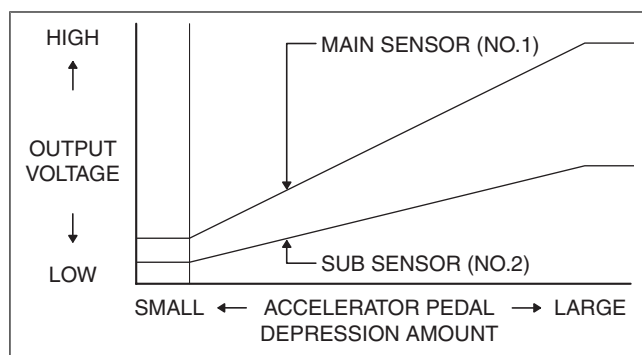
### Operation

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



am3uun00001683

### APP sensor characteristic



ac5wzn00002599

---

**Fail-safe**

<b>DTC No.</b>	<b>Fail-safe function</b>
P2122:00	• Regulates the upper limit of the APP sensor output.
P2123:00	• Regulates the upper limit of the APP sensor output.
P2127:00	• Regulates the upper limit of the APP sensor output.
P2128:00	• Regulates the upper limit of the APP sensor output.
P2138:00	• Restricts the upper limit of the engine speed. • Stops drive-by-wire control (throttle valve is open at approx. 8° by return spring force)