

## THROTTLE POSITION (TP) SENSOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

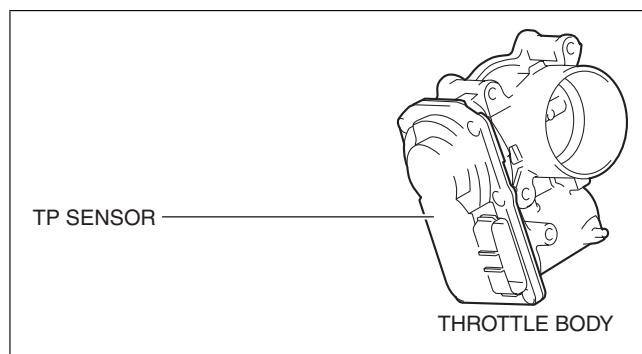
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### Purpose/Function

- Detects the throttle valve opening/closing condition, which operates in accordance with the accelerator pedal operation, as basic information for mainly determining the fuel injection amount.
- Detects the throttle valve opening/closing condition, which operates in accordance with the accelerator pedal operation, and sends it to the PCM as the throttle valve opening angle signal.

### Construction

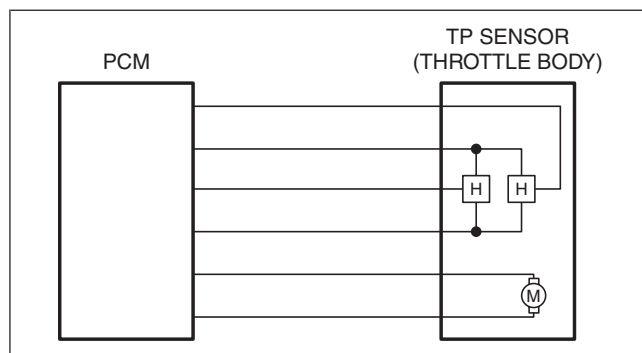
- Built into the throttle body.
- A Hall element has been adopted as the detecting element for detecting the throttle valve opening/closing condition.



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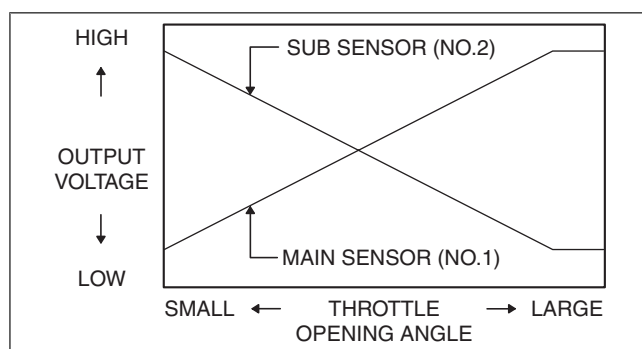
### Operation

- Sends the signal, which fluctuates according to the throttle valve opening/closing, to the PCM.



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### TP sensor characteristic



ac5wzn00002592

### Fail-safe

DTC No.	Fail-safe function
P0122:00	• Restricts the upper limit of the engine speed.
P0123:00	• Restricts the upper limit of the engine speed.
P0222:00	• Restricts the upper limit of the engine speed.
P0223:00	• Restricts the upper limit of the engine speed.
P2101:00	• Restricts the upper limit of the engine speed. • Stops drive-by-wire control (throttle valve is open at approx. 8° by return spring force)
P2109:00	• Restricts the upper limit of the engine speed. • Stops drive-by-wire control (throttle valve is open at approx. 8° by return spring force)
P2135:00	• Restricts the upper limit of the engine speed. • Stops drive-by-wire control (throttle valve is open at approx. 8° by return spring force)