

EGR VALVE POSITION SENSOR [SKYACTIV-D 2.2]

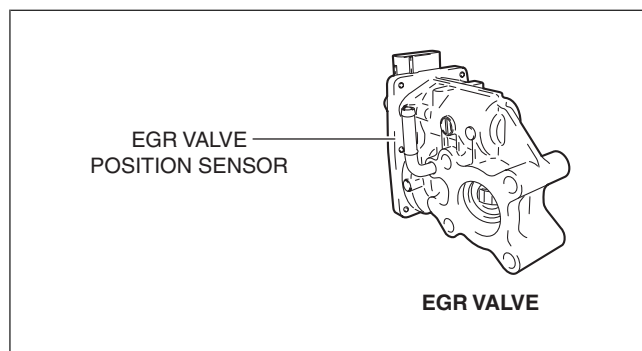
id0140z7257300

Purpose/Function

- Detects the EGR valve open/closed condition as basic information for mainly EGR control and boost control.
- Detects the EGR valve opening/closing condition and sends it to the PCM as the EGR valve opening angle signal.

Construction

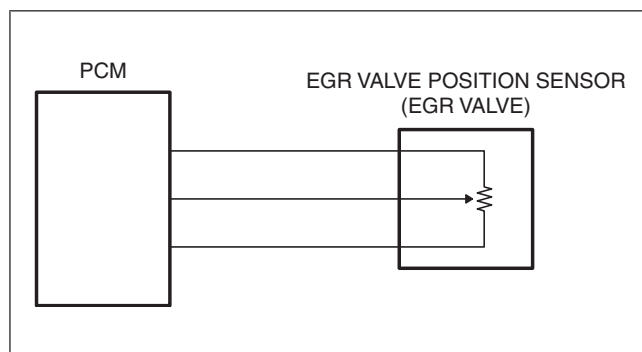
- Built into the EGR valve.
- A Hall element has been adopted as the detecting element for detecting the EGR valve opening/closing condition.



ac5wzn00001663

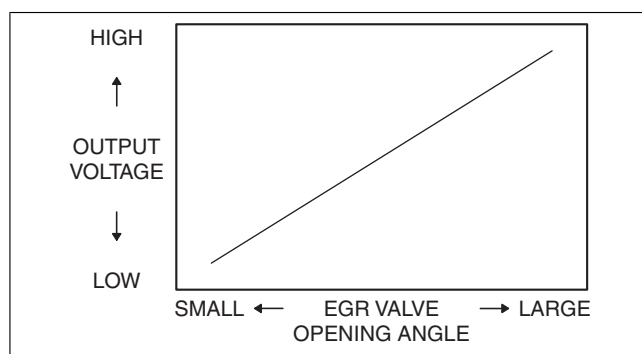
Operation

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



ac5wzn00002488

EGR valve position sensor characteristic



ac5wzn00001665

Fail-safe

DTC No.	Fail-safe function
P0405:00	<ul style="list-style-type: none"> • Inhibits the two-stage turbo control. • Inhibits the EGR control. • Inhibits engine-stop by operating the i-stop function. • PCM restricts engine-transaxle integration control.
P0406:00	<ul style="list-style-type: none"> • PCM restricts engine torque. • Inhibits the two-stage turbo control. • Inhibits the EGR control. • Inhibits the diesel particulate filter regeneration control. • Inhibits engine-stop by operating the i-stop function. • PCM restricts engine-transaxle integration control.