

CAMSHAFT POSITION (CMP) SENSOR [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id0140g2006700

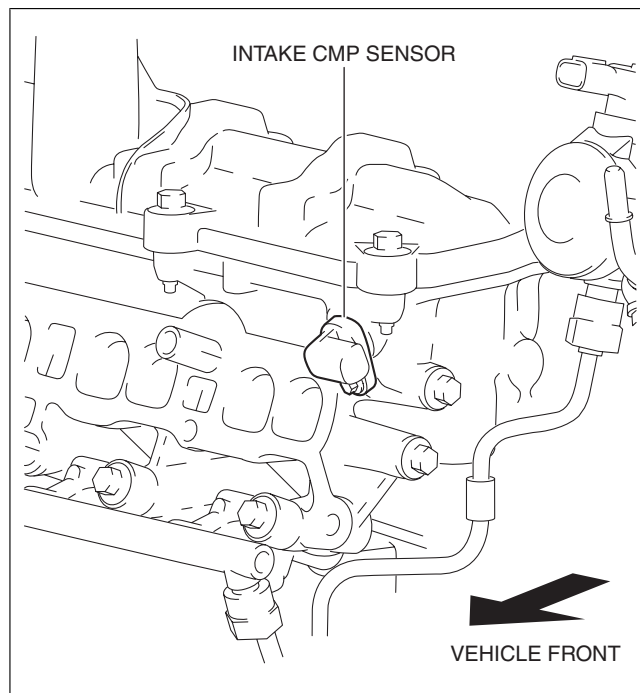
Purpose/Function

- Detects the camshaft speed as basic information for mainly determining the fuel injection timing and ignition timing.
- Detects the camshaft speed and sends it to the PCM as a CMP signal.

Construction

Intake CMP sensor

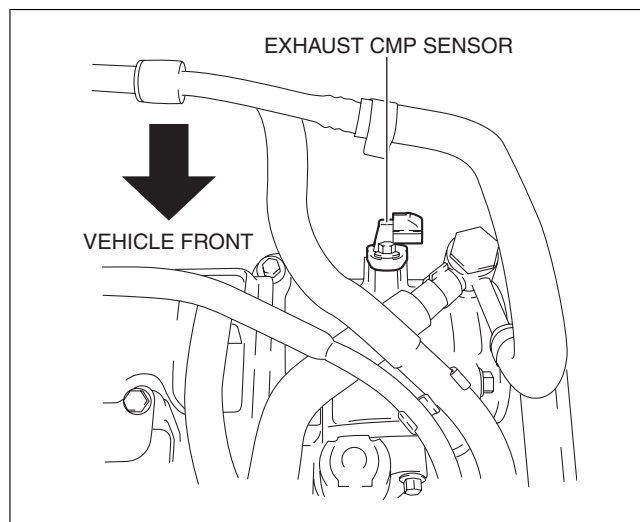
- Installed on the cylinder head.
- A GMR element has been adopted as the detecting element for detecting the intake camshaft speed.



ac5wzn00002588

Exhaust CMP sensor

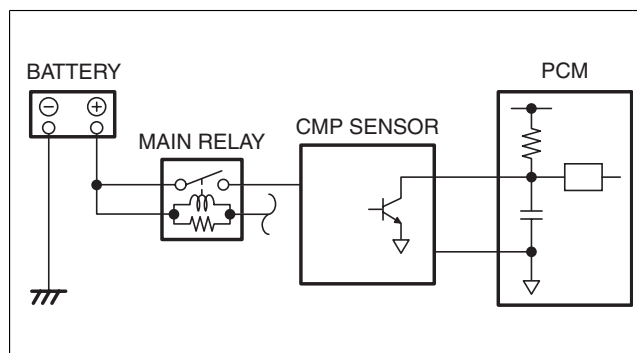
- Installed on the rear housing.
- A GMR element has been adopted as the detecting element for detecting the exhaust camshaft speed.



ac5wzn00002589

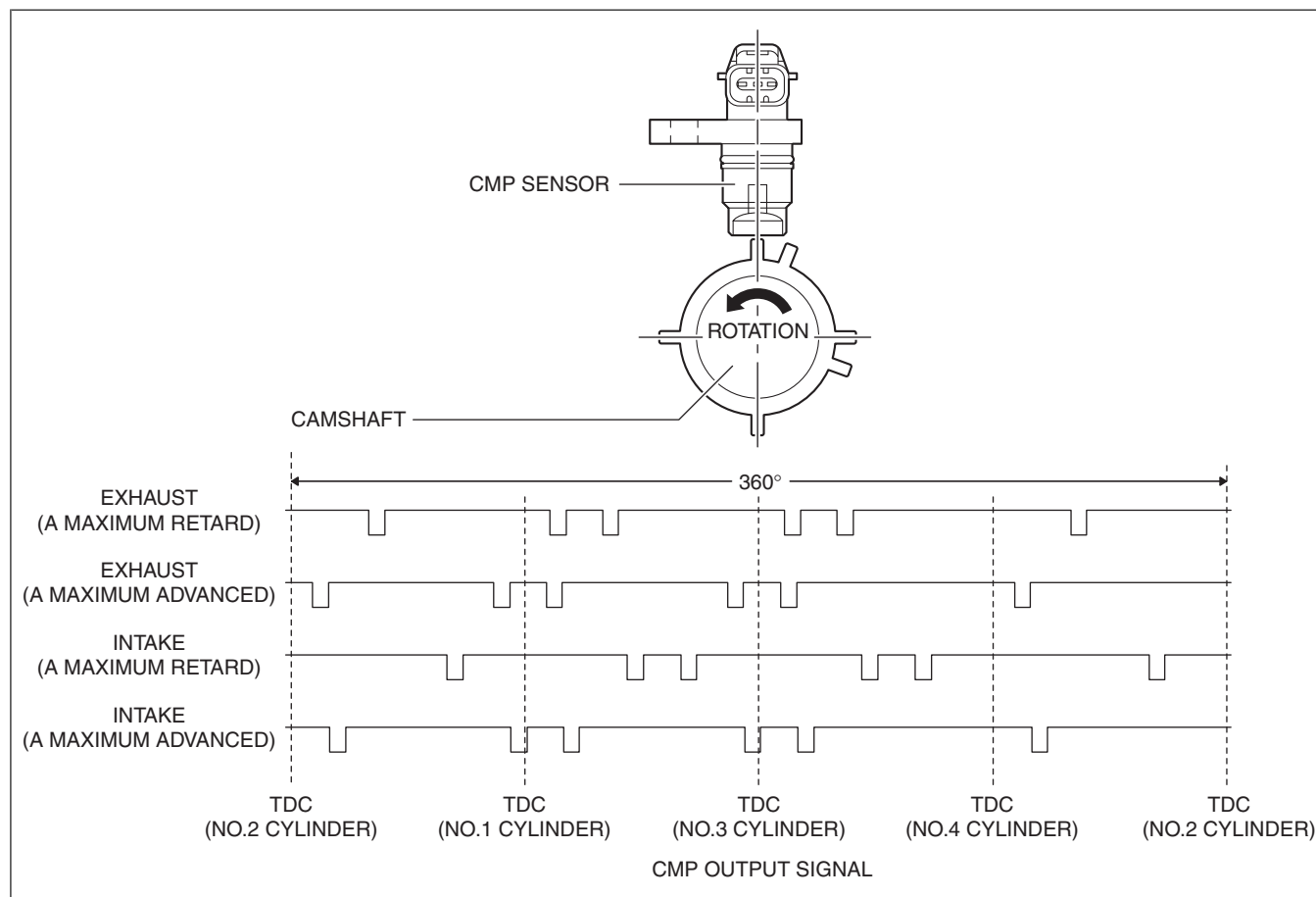
Operation

- Sends the signal, which fluctuates according to the camshaft speed, to the PCM.



ac5wzn00002590

CMP sensor characteristic



ac5wzn00002591

Fail-safe

Intake CMP sensor

DTC No.	Fail-safe function
P0340:00	<ul style="list-style-type: none"> Set the electric variable valve timing control to the maximum cam retard mode.

Exhaust CMP sensor

DTC No.	Fail-safe function
P0365:00	<ul style="list-style-type: none"> Stops fuel injection Stops ignition