

## CRANKSHAFT POSITION (CKP) SENSOR [SKYACTIV-D 2.2]

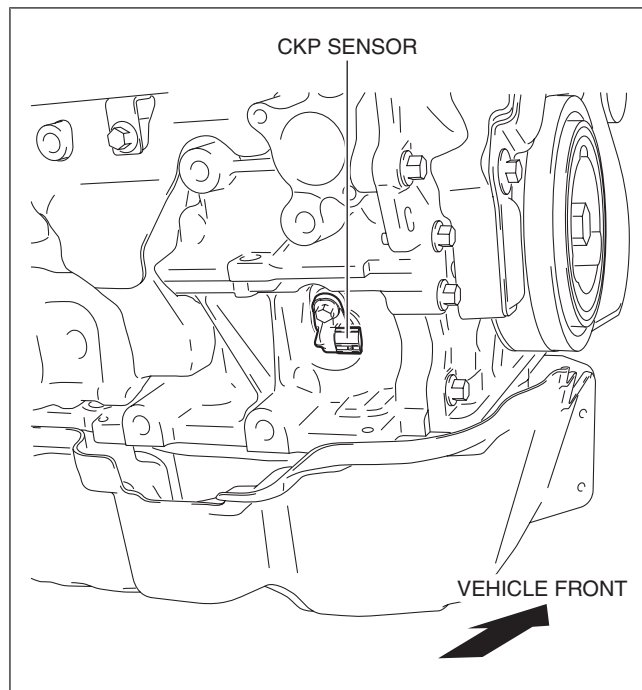
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### Purpose/Function

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

### Construction

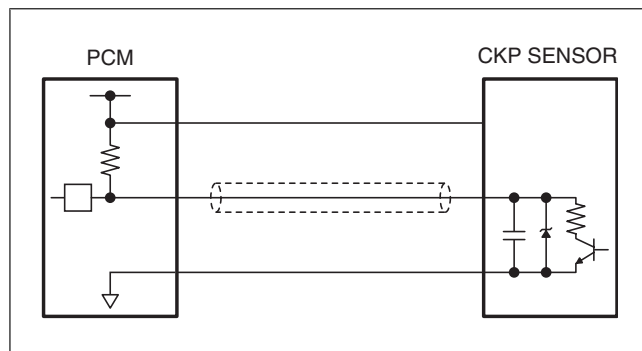
- Installed on the side of the cylinder block (right side).
- An MR (Magnetic Resistance) element has been adopted as the detecting element for detecting the crankshaft speed.



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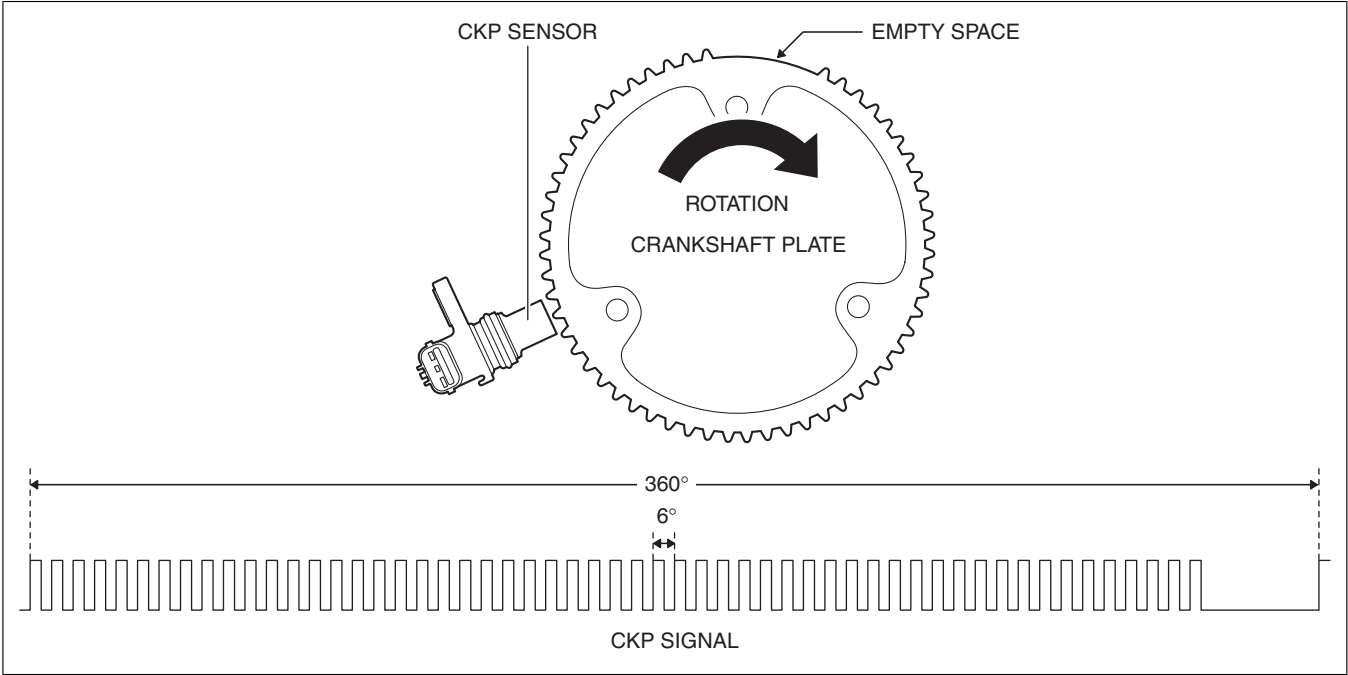
### Operation

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



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CKP sensor characteristic



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Fail-safe

DTC No.	Fail-safe function
P0337:00	<ul style="list-style-type: none"><li>• PCM restricts engine torque.</li><li>• Inhibits the EGR control.</li><li>• Inhibits the diesel particulate filter regeneration control.</li><li>• Inhibits engine-stop by operating the i-stop function.</li><li>• PCM restricts engine-transaxle integration control.</li></ul>