

## DTC P0335 [ZJ, Z6]

B3E010200300W05

DTC P0335	CKP sensor circuit problem
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>If the PCM does not receive the input voltage from the CKP sensor for <b>4.2 s or more</b> while the MAF is <b>1.43 g/s {0.189 lb/min} or more</b>, the PCM determines that there is a CKP sensor circuit problem.</li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>This is a continuous monitor (CCM).</li> <li>The MIL illuminates if the PCM detects the above malfunction condition in the first drive cycle.</li> <li>PENDING CODE is available if the PCM detects the above malfunction condition.</li> <li>FREEZE FRAME DATA is available.</li> <li>The DTC is stored in the PCM memory.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>CKP sensor malfunction</li> <li>Connector or terminal malfunction</li> <li>Open circuit in wiring harness between CKP sensor terminal A and PCM terminal 2T</li> <li>Short to GND in wiring harness between CKP sensor terminal A and PCM terminal 2T</li> <li>Open circuit in wiring harness between CKP sensor terminal B and PCM terminal 2P</li> <li>Short to power supply in wiring harness between CKP sensor terminal B and PCM terminal 2P</li> <li>Short to GND in wiring harness between CKP sensor terminal B and PCM terminal 2P</li> <li>Open circuit in wiring harness between CKP sensor terminal C and PCM terminal 2BF</li> <li>Short to power supply in wiring harness between CKP sensor terminal C and PCM terminal 2BF</li> <li>PCM malfunction</li> </ul>
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>CKP SENSOR</p> <p>⑥</p> </div> <div style="text-align: center;"> <p>PCM</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>CKP SENSOR WIRING HARNESS-SIDE CONNECTOR</p> </div> <div style="text-align: center;"> <p>PCM WIRING HARNESS-SIDE CONNECTOR</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> </div>	

## Diagnostic procedure

STEP	INSPECTION		ACTION
1	<b>VERIFY FREEZE FRAME DATA HAS BEEN RECORDED</b> • Has FREEZE FRAME DATA been recorded?	Yes	Go to the next step.
		No	Record the FREEZE FRAME DATA on the repair order, then go to the next step.
2	<b>VERIFY RELATED REPAIR INFORMATION AVAILABILITY</b> • Verify related service repair information availability. • Is any related repair information available?	Yes	Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	<b>INSPECT CKP SENSOR CONNECTOR FOR POOR CONNECTION</b> • Turn the ignition switch off. • Disconnect the CKP sensor connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
4	<b>INSPECT CKP SENSOR CIRCUIT FOR SHORT TO GND</b> • Turn the ignition switch off. • Inspect for continuity between the following terminals:  - CKP sensor terminal A (wiring harness-side) and body GND - CKP sensor terminal B (wiring harness-side) and body GND  • Is there continuity?	Yes	Repair or replace the wiring harness for a possible short to GND, then go to Step 9.
		No	Go to the next step.
5	<b>INSPECT CKP SENSOR CIRCUIT FOR SHORT TO POWER SUPPLY</b> • Turn the ignition switch to the ON position (Engine off). • Measure the voltage between the following terminals:  - CKP sensor terminal B (wiring harness-side) and body GND - CKP sensor terminal C (wiring harness-side) and body GND  • Is the voltage <b>B+</b> ?	Yes	Repair or replace the wiring harness for a possible short to power supply, then go to Step 9.
		No	Go to the next step.
6	<b>INSPECT CKP SENSOR</b> • Inspect the CKP sensor. (See <a href="#">CRANKSHAFT POSITION (CKP) SENSOR INSPECTION [ZJ, Z6].</a> ) • Is there any malfunction?	Yes	Replace the CKP sensor, then go to Step 9. (See <a href="#">CRANKSHAFT POSITION (CKP) SENSOR REMOVAL/INSTALLATION [ZJ, Z6].</a> )
		No	Go to the next step.
7	<b>INSPECT PCM CONNECTOR FOR POOR CONNECTION</b> • Turn the ignition switch off. • Disconnect the PCM connector. • Inspect for poor connection (such as damaged/pulled-out pins, corrosion). • Is there any malfunction?	Yes	Repair or replace the terminal, then go to Step 9.
		No	Go to the next step.
	<b>INSPECT CKP SENSOR CIRCUIT FOR OPEN CIRCUIT</b> • Turn the ignition switch off. • Inspect for continuity between the following	Yes	Go to the next step.

8	terminals:  - CKP sensor terminal A (wiring harness-side) and PCM terminal 2T (wiring harness-side) - CKP sensor terminal B (wiring harness-side) and PCM terminal 2P (wiring harness-side) - CKP sensor terminal C (wiring harness-side) and PCM terminal 2BF (wiring harness-side)  • Is there continuity?	No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
9	<b>VERIFY TROUBLESHOOTING OF DTC P0335 COMPLETED</b> • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the WDS or equivalent. • Start the engine. • Run the engine for <b>4.2 s or more</b> when the MAF PID is <b>1.43 g/s {0.189 lb/min} or more</b> . • Is the same DTC present?	Yes	Replace the PCM, then go to the next step. (See <a href="#">PCM REMOVAL/INSTALLATION [ZJ, Z6]</a> .)
		No	Go to the next step.
10	<b>VERIFY AFTER REPAIR PROCEDURE</b> • Perform the "AFTER REPAIR PROCEDURE". (See <a href="#">AFTER REPAIR PROCEDURE [ZJ, Z6]</a> .) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See <a href="#">DTC TABLE [ZJ, Z6]</a> .)
		No	DTC troubleshooting completed.