

## DTC P0123 [ZJ, Z6]

B3E010200100W10

DTC P0123	TP sensor circuit high input
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>If the PCM detects that the TP sensor voltage at PCM terminal 2AA is <b>more than 4.9 V</b> after the ignition switch is turned to the ON position, the PCM determines that the TP sensor circuit has a malfunction.</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>TP sensor malfunction</li> <li>Connector or terminal malfunction</li> <li>Short to power supply in wiring harness between TP sensor terminal C and PCM terminal 2AA</li> <li>Open circuit in wiring harness between TP sensor terminal B and PCM terminal 2AE</li> <li>PCM malfunction</li> </ul>
<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>TP SENSOR</p> <p>TP SENSOR WIRING HARNESS-SIDE CONNECTOR</p> </div> <div style="text-align: center;"> <p>PCM</p> <p>PCM WIRING HARNESS-SIDE CONNECTOR</p> </div> </div>	

### Diagnostic procedure

STEP	INSPECTION	ACTION
	VERIFY FREEZE FRAME DATA HAS BEEN	Yes Go to the next step.

1	<b>RECORDED</b> • Has FREEZE FRAME DATA been recorded?	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 TP SENSOR CONNECTOR FOR POOR CONNECTION</b> • Turn the ignition switch off. • Disconnect the TP 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 8.
		No	Go to the next step.
4	<b>INSPECT TP SENSOR SIGNAL CIRCUIT FOR SHORT TO POWER SUPPLY</b> • Turn the ignition switch to the ON position (Engine off). • Measure the voltage between TP 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 8.
		No	Go to the next step.
5	<b>INSPECT TP SENSOR</b> • Inspect the TP sensor. (See <a href="#">THROTTLE POSITION (TP) SENSOR INSPECTION [ZJ, Z6].</a> ) • Is there any malfunction?	Yes	Replace the TP sensor, then go to Step 8. (See <a href="#">THROTTLE POSITION (TP) SENSOR REMOVAL/INSTALLATION [ZJ, Z6].</a> )
		No	Go to the next step.
6	<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 8.
		No	Go to the next step.
7	<b>INSPECT TP SENSOR GND CIRCUIT FOR OPEN CIRCUIT</b> • Turn the ignition switch off. • Inspect for continuity between TP sensor terminal B (wiring harness-side) and PCM terminal 2AE (wiring harness-side). • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
8	<b>VERIFY TROUBLESHOOTING OF DTC P0123 COMPLETED</b> • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the WDS or equivalent. • Start the engine. • 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.
9	<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.