

DTC P2507 [ZJ, Z6]

B3E010202500W04

DTC P2507	PCM power input signal low
DETECTION CONDITION <ul style="list-style-type: none"> The PCM monitors the voltage of the backup battery positive at PCM terminal 1AX. If the PCM detects that the battery positive terminal voltage is 2.5 V or less for 2 s, the PCM determines that the backup voltage circuit has a malfunction. Diagnostic support note This is a continuous monitor (CCM). The MIL illuminates if PCM detects the above malfunction condition during the first drive cycle. The PENDING CODE is available if the PCM detects the above malfunction condition. The FREEZE FRAME DATA is available. The DTC is stored in the PCM memory. 	<ul style="list-style-type: none"> Connector or terminal malfunction Open circuit in wiring harness between the battery positive terminal and PCM terminal 1AX Short to GND in wiring harness between the battery positive terminal and PCM terminal 1AX PCM malfunction

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED <ul style="list-style-type: none"> 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	VERIFY RELATED REPAIR INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related service repair information 	Yes Perform repair or diagnosis according to the available repair information. • If the vehicle is not repaired, go to the next step.

	availability. • Is any related repair information available?	No	Go to the next step.
3	INSPECT PCM POWER MONITOR CIRCUIT FOR SHORT TO GND • Turn the ignition switch off. • Inspect for continuity between battery positive terminal (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 6.
		No	Go to the next step.
4	INSPECT PCM CONNECTOR FOR POOR CONNECTION • 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 6.
		No	Go to the next step.
5	INSPECT PCM POWER MONITOR CIRCUIT FOR OPEN CIRCUIT • Measure the voltage between PCM terminal 1AX (wiring harness-side) and body GND. • Is the voltage B+ ?	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
6	VERIFY TROUBLESHOOTING OF DTC P2507 COMPLETED • 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 PCM REMOVAL/INSTALLATION [ZJ, Z6] .)
		No	Go to the next step.
7	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [ZJ, Z6] .) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [ZJ, Z6] .)
		No	DTC troubleshooting completed.