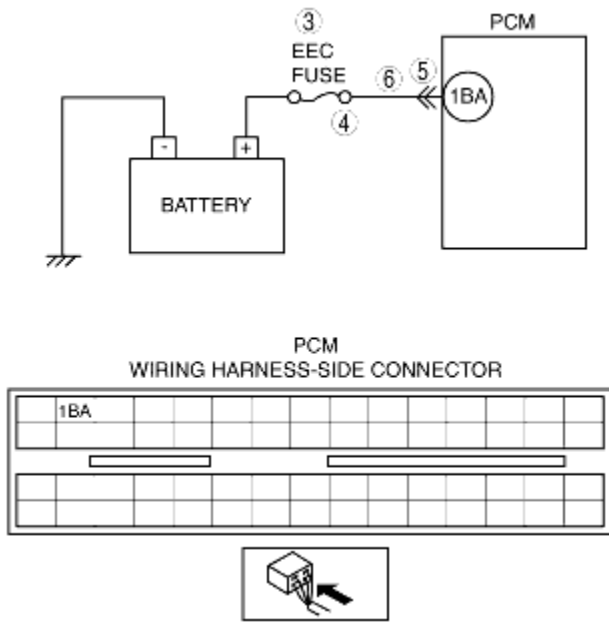


DTC P2507 [LF]

B3E010201083W06

DTC P2507	PCM B+ voltage low
DETECTION CONDITION	<ul style="list-style-type: none"> The PCM monitors the voltage of back-up battery positive terminal at PCM terminal 1BA. If the PCM detected battery positive terminal voltage below 2.5 V for 2 s, the PCM determines that the backup voltage circuit has malfunction.
POSSIBLE CAUSE	<ul style="list-style-type: none"> Melt down EEC fuse Open circuit in wiring between EEC fuse and PCM terminal 1BA Short to ground between EEC fuse and PCM terminal 1BA Poor connection of PCM connector PCM malfunction
	

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY FREEZE FRAME DATA HAS BEEN RECORDED <ul style="list-style-type: none"> Has FREEZE FRAME PID DATA been recorded? 	Yes Go to the next step.
		No Record FREEZE FRAME PID DATA on repair order, then go to the next step.
2	VERIFY RELATED REPAIR INFORMATION AVAILABILITY <ul style="list-style-type: none"> Check for related service repair information availability. Is any related repair information available? 	Yes Perform repair or diagnosis according to available repair information. • If vehicle is not repaired, go to the next step.
		No Go to the next step.
3	INSPECT EEC FUSE <ul style="list-style-type: none"> Turn the ignition switch to off. Inspect EEC fuse for failure and proper. Is it normal? 	Yes Go to step 6.
		No <ul style="list-style-type: none"> If EEC fuse has been melt down, then go to the next step. If EEC fuse is not installed correctly, install it correctly then go to Step 7.
4	INSPECT MONITOR CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> Disconnect battery cables. Inspect continuity between EEC fuse terminal 	Yes Repair or replace wiring harness for short to ground and install new fuse, then go to Step 7.

	and body ground. • Is there continuity?	No	Go to step 7.
5	INSPECT PCM CONNECTOR FOR POOR CONNECTION • Disconnect PCM connector. • Inspect for poor connection (such as damaged, pulled-out terminals, corrosion). • Is there any malfunction?	Yes	Repair terminals, then go to Step 7.
		No	Go to the next step.
6	INSPECT MONITOR CIRCUIT FOR OPEN CIRCUIT • Disconnect battery cables. • Inspect continuity between EEC fuse terminal and PCM terminal 1BA (wiring harness-side). • Is there continuity?	Yes	Go to the next step.
		No	Repair or replace wiring harness for open circuit, then go to the next step.
7	VERIFY TROUBLESHOOTING OF DTC P2507 COMPLETED • Make sure to reconnect all disconnected connectors. • Turn the ignition switch to the ON position (Engine off). • Clear DTC from PCM memory using WDS or equivalent. • Start engine and warm it up completely. • Is same DTC present?	Yes	Replace PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [LF] .)
		No	Go to the next step.
8	VERIFY AFTER REPAIR PROCEDURE • Perform "After Repair Procedure". (See AFTER REPAIR PROCEDURE [LF] .) • Are any DTC present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [LF] .)
		No	Troubleshooting completed.