	100 1021#1/09000				
DTC P2507:00	PLIM Dattory voltage low input				
DETECTION CONDITION					
FAIL-SAFE FUNCTION	Not applicable				
POSSIBLE CAUSE	Battery malfunction Short to ground or open circuit in backup voltage circuit Short to ground in wiring harness between MAIN 200 A fuse and PCM terminal 20 MAIN 200 A fuse and/or FNG +B 7.5 A fuse malfunction				
BATTERY A MAIN 200 A ENG.+B 7.5 A PCM WIRING HARNESS-SIDE CONNECTOR					
2BE 2AZ 2AU 2AP 2AK 2BF 2BA 2AV 2AQ 2AL 2BG 2BB 2AW2AR 2AM 2BH 2BC 2AX 2AS 2AN 2BD 2AY 2AT 2AO 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D					

Diagnostic Procedure

STEP		ACTION	
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.
	SNAPSHOT DATA HAS BEEN RECORDED	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data
	Has the FREEZE FRAME DATA (Mode 2)/		on the repair order, then go to the next step.
	snapshot data been recorded?		
2	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
	AVAILABILITY		Service Information.
	Verify related Service Information availability.		If the vehicle is not repaired, go to the next step.
	Is any related Service Information available?	No	Go to the next step.
3	INSPECT BATTERY	Yes	Recharge or replace the battery, then go to Step 6.
	Switch the ignition off.		(See BATTERY RECHARGING [SKYACTIV-G 2.0,
	Inspect the battery.		SKYACTIV-G 2.5].)
	(See BATTERY INSPECTION [SKYACTIV-G 2.0,		(See BATTERY RECHARGING [SKYACTIV-G 2.0,
	SKYACTIV-G 2.5].)		SKYACTIV-G 2.5 (WITHOUT i-stop)].)
	(See BATTERY INSPECTION [SKYACTIV-G 2.0,		(See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G
	SKYACTIV-G 2.5 (WITHOUT i-stop)].)		2.0, SKYACTIV-G 2.5].)
	Is there any malfunction?	No	Go to the next step.

STEP	INSPECTION		ACTION
4	INSPECT BACKUP VOLTAGE CIRCUIT FOR	Yes	Go to the next step.
	 SHORT TO GROUND OR OPEN CIRCUIT Reconnect all disconnected connectors. Access the VPWR PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Verify the VPWR PID value. Is the VPWR PID value B+? 	No	Inspect the MAIN 200 A fuse and ENG.+B 7.5 A fuse. If the fuse is blown: Repair or replace the wiring harness for a possible short to ground. Replace the malfunctioning fuse. If the fuse is deteriorated: Replace the malfunctioning fuse. If all fuses are normal: Repair or replace the wiring harness for a possible open circuit. Go to Step 6.
5	 INSPECT PCM CONNECTOR CONDITION Switch the ignition off. Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	Yes No	Repair or replace the connector and/or terminals, then go to the next step. Go to the next step.
6	VERIFY DTC TROUBLESHOOTING COMPLETED • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Start the engine and warm it up completely. • Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Is the same DTC present?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Go to the next step. Go to the next step.
7	VERIFY AFTER REPAIR PROCEDURE • Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Are any DTCs present?	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) DTC troubleshooting completed.