DTC						
P2502:00	Charging system voltage problem					
DETECTION CONDITION	This is a continuous monitor (other)					
FAIL-SAFE FUNCTION	Illuminates the charging system warning light.					
POSSIBLE CAUSE	— Short to around in wiring harness between STARTER 250 A fuse and generator terminal 1A					
	② ⑥ PCM					
BATTERY  GENERATOR  (B)  (B)  (C)  (C)  (D)  (D)  (D)  (D)  (D)  (D						
1EE   1EA   1DW   1DS   1DO   1DK   1DG   1DA   1CW   1CS   1CO   1CK   1CG   1CC   1BY   1BR   1BM   1BH   1BC   1AX   1AS   1AN   1AI   1AD   1Y   1T   1O   1J   1E   1A   1BS   1BN   1BI   1BD   1AY   1AT   1AO   1AJ   1AE   1Z   1U   1P   1K   1F   1B   1BJ   1BJ   1BJ   1BJ   1BJ   1BJ   1BJ   1AZ   1AU   1AP   1AK   1AF   1AA   1V   1Q   1L   1G   1C   1CD   1BJ   1BD   1BJ   1BJ   1BJ   1AJ   1AJ						

**Diagnostic Procedure** 

STEP	INSPECTION		ACTION
1	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
	AVAILABILITY		Service Information.
	<ul> <li>Verify related Service Information availability.</li> </ul>		If the vehicle is not repaired, go to the next step.
	• Is any related Service Information available?	No	Go to the next step.

STEP	INSPECTION		ACTION
2	INSPECT BATTERY	Yes	Recharge or replace the battery, then go to Step 7.
-	Switch the ignition to off.		(See BATTERY RECHARGING [SKYACTIV-G 2.0].)
	Inspect the battery.		(See BATTERY RECHARGING [SKYACTIV-G 2.0]
	(See BATTERY INSPECTION [SKYACTIV-G		(WITHOUT i-stop)].)
	2.0].)		(See BATTERY REMOVAL/INSTALLATION [SKYACTIV-G
	(See BATTERY INSPECTION [SKYACTIV-G 2.0		2.0].)
	(WITHOUT i-stop)].)	No	Go to the next step.
		INO	Go to the flext step.
3	• Is there any malfunction?  INSPECT POOR INSTALLATION OF	Yes	Tighten the generator terminal 1A installation nut, then go to
٥	GENERATOR TERMINAL	165	Step 7.
		No	
	<ul><li>Switch the ignition to off.</li><li>Inspect for looseness of the generator terminal 1A</li></ul>	No	Go to the next step.
	installation nut.		
4	• Is the nut loose?  INSPECT POOR INSTALLATION OF BATTERY	Yes	Connect the battery positive terminal correctly, then go to
4	POSITIVE TERMINAL	165	
		No	Step 7.
	Inspect for looseness of the battery positive     terminal	No	Go to the next step.
	terminal.  • Is the terminal loose?		
5	INSPECT BATTERY CHARGING CIRCUIT FOR	Yes	Go to the next step.
	SHORT TO GROUND OR OPEN CIRCUIT	No	Inspect the STARTER 250 A fuse.
	Disconnect the generator terminal 1A.	110	If the fuse is blown:
	Measure the voltage at the generator terminal 1A.		Repair or replace the wiring harness for a possible
	(wiring harness-side).		short to ground.
	• Is the voltage <b>B+</b> ?		Replace the fuse.
	is the voltage Di		If the fuse is deteriorated:
			Replace the fuse.
			If the fuse is normal:
			Repair or replace the wiring harness for a possible
			open circuit. Go to Step 7.
6	INSPECT GENERATOR	Yes	Repair or replace the malfunctioning part according to the
	• Inspect the generator.	103	inspection results, then go to the next step.
	(See GENERATOR INSPECTION [SKYACTIV-G		(See GENERATOR DISASSEMBLY/ASSEMBLY
	2.0].)		[SKYACTIV-G 2.0].)
	• Is there any malfunction?		(See GENERATOR REMOVAL/INSTALLATION
	is there any manuficultr		[SKYACTIV-G 2.0].)
		No	
7	VERIFY DTC TROUBLESHOOTING	Yes	Go to the next step.  Repeat the inspection from Step 1.
'	COMPLETED	162	If the malfunction recurs, replace the PCM.
	Make sure to reconnect all disconnected		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G
	connectors.		2.0].)
	Clear the DTC from the PCM memory using the		Go to the next step.
	M-MDS.	No	Go to the next step.
	(See AFTER REPAIR PROCEDURE	'10	Co to the next step.
	[SKYACTIV-G 2.0].)		
	Perform the KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0].)		
	• Is the same DTC present?		
8	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-G 2.0].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0].)		
	• Are any DTCs present?		
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