	- id0102h14011					
DTC P058A: 00	Current sensor problem					
The following conditions are met:						
FAIL-SAFE	Inhibits engine-stop by operating the i-stop function.					
POSSIBLE CAUSE						
BATTERY (8) CURRENT SENSOR (3) (5) (4) (7) (6) (2AK) (2AK						
CURRENT SENSOR FBCM WIRING HARNESS-SIDE WIRING HARNESS-SIDE CONNECTOR CONNECTOR						
2AA 2Y 2W 2U 2S 2Q 2O 2M 2K 2I 2G 2E 2C 2A 2AB 2Z 2X 2V 2T 2R 2P 2N 2L 2J 2H 2F 2D 2B						
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 2AI 2AG 2AC 2Y 2U 2Q 2M 2I 2E 2A 2AJ 2AH 2AD 2Z 2V 2R 2N 2J 2F 2B					

Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
'	AVAILABILITY	165	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	
2	VERIFY RELATED PENDING CODE AND/OR	Yes	Go to the next step. Go to the applicable PENDING CODE or DTC inspection.
2	DTC	165	(See DTC TABLE [SKYACTIV-G 2.0].)
	• Switch the ignition to off, then to ON (engine off).	No	Go to the next step.
	Perform the Pending Trouble Code Access	INO	Go to the next step.
	Procedure and DTC Reading Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0].)		
	Are any other PENDING CODEs and/or DTCs		
	present?		
3	INSPECT CURRENT SENSOR CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 10.
		No	Go to the next step.
	Note		
	Always disconnect current sensor connector		
	before disconnecting the negative battery		
	cable.		
	Switch the ignition to off.		
	Disconnect the current sensor connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	• Is there any malfunction?		
4	INSPECT FRONT BODY CONTROL MODULE	Yes	Repair or replace the connector and/or terminals, then go to
	(FBCM) CONNECTOR CONDITION		Step 10.
	• Disconnect the front body control module (FBCM)	No	Go to the next step.
	connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	• Is there any malfunction?	.,	
5	INSPECT CURRENT SENSOR CIRCUIT FOR	Yes	Repair or replace the wiring harness for a possible short to
	SHORT TO POWER SUPPLY	Nia	power supply, then go to Step 10.
	Verify that the current sensor and front body control module (FBCM) connectors are	No	Go to the next step.
	disconnected.		
	Switch the ignition ON (engine off or on).		
	Measure the voltage at the following terminals		
	(wiring harness-side):		
	Current sensor terminal A		
	Current sensor terminal B		
	• Is the voltage above B+?		
6	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 10.
	Switch the ignition to off.	No	Go to the next step.
	• Inspect for poor connection (such as damaged/		·
	pulled-out pins, corrosion).		
	Is there any malfunction?		

STEP	INSPECTION		ACTION
7	INSPECT FRONT BODY CONTROL MODULE	Yes	Repair or replace the wiring harness for a possible short to
	(FBCM) CIRCUIT FOR SHORT TO POWER		power supply, then go to Step 10.
	SUPPLY	No	Go to the next step.
	Verify that the current sensor, front body control		
	module (FBCM) and PCM connectors are		
	disconnected.		
	Switch the ignition ON (engine off or on).		
	Measure the voltage at the following terminals		
	(wiring harness-side):		
	 Front body control module (FBCM) terminal 		
	2P		
	Front body control module (FBCM) terminal		
	2N		
8	• Is the voltage above B+? INSPECT CURRENT SENSOR	Yes	Replace the current sensor, then go to Step 10.
0	• Inspect the current sensor.	res	(See CURRENT SENSOR REMOVAL/INSTALLATION
	(See CURRENT SENSOR INSPECTION		[SKYACTIV-G 2.0].)
	[SKYACTIV-G 2.0].)	No	Go to the next step.
	• Is there any malfunction?	110	Go to the next step.
9	INSPECT FRONT BODY CONTROL MODULE	Yes	Replace the front body control module (FBCM), then go to
	(FBCM)		the next step.
	Inspect the front body control module (FBCM).		(See FRONT BODY CONTROL MODULE (FBCM)
	(See FRONT BODY CONTROL MODULE		REMOVAL/INSTALLATION.)
	(FBCM) INSPECTION.)	No	Go to the next step.
	Is there any malfunction?		
10	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		• If the malfunction recurs, replace the PCM.
	Make sure to reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 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	110	Go to the next step.
	[SKYACTIV-G 2.0].)		
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0].)		
	Is the PENDING CODE for this DTC present?		
11	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?		