DTC	CAN/LIN communication system: current sensor information communication error with front body					
U1007:00	control module (FBCM) PCM detects a current sensor information communication error from front body control module (FBCM).					
DETECTION CONDITION	Diagnostic support note					
FAIL-SAFE	Inhibits engine-stop by operating the i-stop function.					
FUNCTION	Inhibits a part of the generator output control.					
POSSIBLE CAUSE	Communication line between current sensor and front body control module (FBCM) malfunction Communication line between front body control module (FBCM) and PCM malfunction Current sensor connector or terminals malfunction Short to ground or open circuit in current sensor power supply circuit Short to ground in wiring harness between MAIN 200 A fuse and current sensor terminal A MAIN 200 A fuse and/or ENG.+B 7.5 A fuse malfunction Open circuit in wiring harness between battery positive terminal and current sensor terminal A					
DATTED\/	9 PCM					
BATTERY (a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d						
	CURRENT SENSOR FBCM 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 2AW 2AR 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					

- Repeatability Verification Procedure
 1. Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
 2. Start the engine.

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	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.
2	VERIFY RELATED PENDING CODE AND/OR	Yes	Go to the applicable PENDING CODE or DTC inspection.
	DTC		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	Switch the ignition off, then ON (engine off).	No	Go to the next step.
	Perform the Pending Trouble Code Access		
	Procedure and DTC Reading Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	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 off		
	Switch the ignition off. Disconnect the current sensor connector.		
	Inspect for poor connection (such as damaged/ pulled out pine correction)		
	pulled-out pins, corrosion).		
	Is there any malfunction?		

STEP	INSPECTION		ACTION
4	INSPECT CURRENT SENSOR POWER SUPPLY	Yes	
_		Yes No	Go to the next step. Inspect the MAIN 200 A fuse and ENG.+B 7.5 A fuse. If the fuse is burnt out: Refer to the wiring diagram and verify whether or not there is a common connector between MAIN 200 A fuse and current sensor terminal A. If there is a common connector: Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. Repair or replace the malfunctioning part. If there is no common connector: Repair or replace the wiring harness which has a short to ground. Replace the fuse.
			 If the fuse is damaged: Replace the fuse. If all fuses are normal: Refer to the wiring diagram and verify whether or not there is a common connector between battery positive terminal and current sensor terminal A. If there is a common connector:
5	INSPECT FRONT BODY CONTROL MODULE (FBCM) CONNECTOR CONDITION • Disconnect the front body control module (FBCM)	Yes	Repair or replace the connector and/or terminals, then go to Step 10. Go to the next step.
	connector.Inspect for poor connection (such as damaged/pulled-out pins, corrosion).Is there any malfunction?		·
6	INSPECT CURRENT SENSOR SIGNAL CIRCUIT FOR SHORT TO GROUND • Verify that the current sensor and front body control module (FBCM) connectors are disconnected. • Inspect for continuity between current sensor terminal B (wiring harness-side) and body ground. • Is there continuity?	Yes	Refer to the wiring diagram and verify whether or not there is a common connector between current sensor terminal B and front body control module (FBCM) terminal 2E. If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for a short to ground. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has a short to ground. Go to Step 10. Go to the next step.

STEP	INSPECTION		ACTION
7	INSPECT CURRENT SENSOR SIGNAL CIRCUIT	Yes	Go to the next step.
	Verify that the current sensor and front body control module (FBCM) connectors are disconnected. Inspect for continuity between current sensor terminal B (wiring harness-side) and front body control module (FBCM) terminal 2E (wiring harness-side). Is there continuity?	No	Refer to the wiring diagram and verify whether or not there is a common connector between current sensor terminal B and front body control module (FBCM) terminal 2E. If there is a common connector: • Determine the malfunctioning part by inspecting the common connector and the terminal for corrosion, damage, or pin disconnection, and the common wiring harness for an open circuit. • Repair or replace the malfunctioning part. If there is no common connector: • Repair or replace the wiring harness which has an open circuit. Go to Step 10.
8	INSPECT CURRENT SENSOR Inspect the current sensor. (See CURRENT SENSOR INSPECTION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	Yes	Replace the current sensor, then go to Step 10. (See CURRENT SENSOR REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Go to the next step.
9	• Is there any malfunction? INSPECT FRONT BODY CONTROL MODULE	\/	David and the format hands a control mandal of (FDOM), the mandal of
9	(FBCM) • Inspect the front body control module (FBCM). (See FRONT BODY CONTROL MODULE	Yes	Replace the front body control module (FBCM), then go to the next step. (See FRONT BODY CONTROL MODULE (FBCM) REMOVAL/INSTALLATION.)
	(FBCM) INSPECTION.) • Is there any malfunction?	No	Go to the next step.
10	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	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].) Implement the repeatability verification procedure. (See Repeatability Verification Procedure.) Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Is the SIMPLE PROCEDURE.	No	Go to the next step.
11	• Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Are any DTCs present?	Yes No	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) DTC troubleshooting completed.