	id0102h4708300				
DTC P2122:00	APP sensor No.1 circuit low input				
DETECTION CONDITION	 The PCM monitors the input voltage from APP sensor No.1. If the input voltage at the PCM terminal 2AN is less than 0.1 V, the PCM determines that the APP sensor No.1 circuit input voltage is low. Diagnostic support note This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle. FREEZE FRAME DATA (Mode 2)/Snapshot data is available. DTC is stored in the PCM memory. 				
FAIL-SAFE FUNCTION	Regulates the upper limit of the APP sensor output.				
POSSIBLE CAUSE	APP sensor connector or terminals malfunction Short to ground in wiring harness between the following terminals: APP sensor terminal A—PCM terminal 2AR APP sensor terminal B—PCM terminal 2AN PCM connector or terminals malfunction APP sensor No.1 signal circuit and ground circuit are shorted to each other Open circuit in wiring harness between the following terminals: APP sensor terminal A—PCM terminal 2AR APP sensor terminal B—PCM terminal 2AN APP sensor No.1 malfunction PCM malfunction PCM PCM PCM PCM PCM PCM				
	(APP SENSOR) (APP SENSOR) (B) (APP SENSOR) (APP SENSOR				
WI	APP SENSOR RING HARNESS-SIDE CONNECTOR PCM WIRING HARNESS-SIDE CONNECTOR 28E 2AZ 2AU 2AP 2AK 2AE 2AA 2W 2S 2O 2K 2G 2C 2AF 2AB 2X 2T 2P 2L 2H 2D 28B 2B 2AW 2AR 2AM 2BH 2BC 2AX 2AS 2AN 2BH 2BC 2AX 2AS 2AN 2BD 2AY 2AT 2AO 2AJ 2AH 2AD 2Z 2V 2R 2N 2J 2F 2B 28B 2AZ 2AU 2AP 2AK 2AS 2AN 2BH 2BC 2AX 2AS 2AN 2BD 2AY 2AT 2AO 2AJ 2AH 2AD 2Z 2V 2R 2N 2J 2F 2B 28B 2AZ 2AJ 2AH 2AD 2Z 2V 2R 2H 2H 2D 2H 2H 2D 2H 2H 2H 2H 2H 2H 2D 2H				

Diagnostic Procedure

STEP	INSPECTION		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.

STEP	INSPECTION		ACTION
3	INSPECT APP SENSOR CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
"	CONDITION	103	Step 9.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the APP sensor connector.	INO	Go to the flext step.
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	• Is there any malfunction?		
4	INSPECT APP SENSOR NO.1 CIRCUIT FOR	Yes	If the short to ground circuit could be detected in the wiring
"	SHORT TO GROUND	103	harness:
	Verify that the APP sensor connector is		Repair or replace the wiring harness for a possible short to
	disconnected.		ground.
	Inspect for continuity between the following		If the short to ground circuit could not be detected in the
	terminals (wiring harness-side) and body ground:		wiring harness:
	APP sensor terminal A		Replace the PCM (short to ground in the PCM internal
	APP sensor terminal B		circuit).
	Is there continuity?		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
			SKYACTIV-G 2.5].)
			Go to Step 9.
		No	Go to the next step.
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 9.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
	• Is there any malfunction?	\/	Denoting an application with a minimal boundary for a property of the second to
6	INSPECT APP SENSOR NO.1 SIGNAL CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to
	AND GROUND CIRCUIT FOR SHORT TO EACH OTHER	No	each other, then go to Step 9.
	Verify that the APP sensor and PCM connectors	INO	Go to the next step.
	are disconnected.		
	Inspect for continuity between APP sensor		
	terminals B and C (wiring harness-side).		
	• Is there continuity?		
7	INSPECT APP SENSOR NO.1 CIRCUIT FOR	Yes	Go to the next step.
	OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the APP sensor and PCM connectors		circuit, then go to Step 9.
	are disconnected.		
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	 APP sensor terminal A—PCM terminal 2AR 		
	 APP sensor terminal B—PCM terminal 2AN 		
	Is there continuity?		
8	INSPECT APP SENSOR NO.1	Yes	, , , , , , , , , , , , , , , , , , , ,
	Reconnect all disconnected connectors.		(See ACCELERATOR PEDAL REMOVAL/INSTALLATION
	• Inspect the APP sensor No.1.		[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	(See ACCELERATOR PEDAL POSITION (APP)	No	Go to the next step.
	SENSOR INSPECTION [SKYACTIV-G 2.0,		
	SKYACTIV-G 2.5].)		
9	• Is there any malfunction?	Voc	Paneat the inspection from Stan 1
9	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
	Clear the DTC from the PCM memory using the		SKYACTIV-G 2.5].)
	M-MDS.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		as to the more stop.
	• Start the engine.		
	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?		

STEP	INSPECTION		ACTION
10	VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	Perform the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
	Are any DTCs present?		