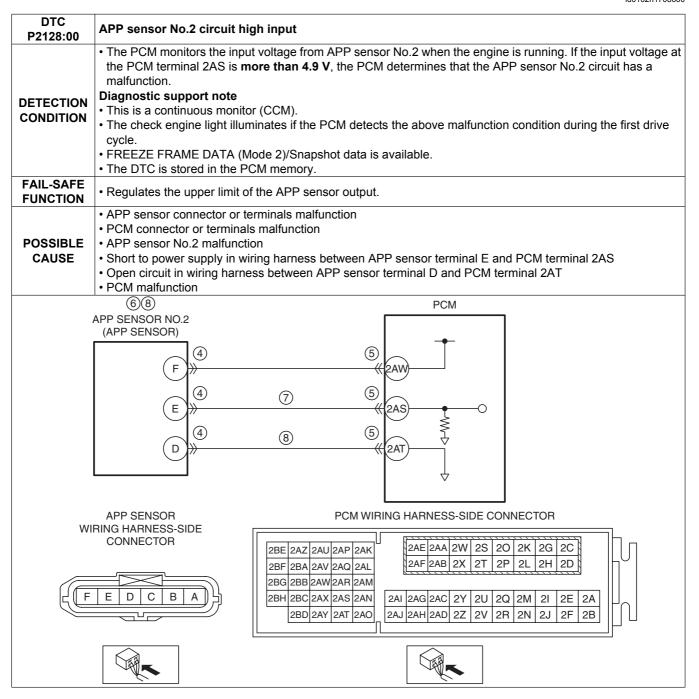
DTC P2128:00 [SKYACTIV-G 2.0]

id0102h1708600



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	CLASSIFY APP SENSOR NO.2 MALFUNCTION	Yes	Go to Step 7.
	OR WIRING HARNESS MALFUNCTION	No	Go to the next step.
	Access the APP2 PID using the M-MDS.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0].)		
	Verify the APP2 PID value.		
	• Is the APP2 PID value 5 V or B+ ?		
4	INSPECT APP SENSOR CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 9.
	Switch the ignition to off.	No	Go to the next step.
	Disconnect the APP sensor connector.		·
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
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?		
6	INSPECT APP SENSOR NO.2	Yes	Replace the accelerator pedal, then go to Step 9.
	Reconnect all disconnected connectors.		(See ACCELERATOR PEDAL REMOVAL/INSTALLATION
	Inspect the APP sensor No.2.		[SKYACTIV-G 2.0].)
	(See ACCELERATOR PEDAL POSITION (APP)	No	Go to Step 9.
	SENSOR INSPECTION [SKYACTIV-G 2.0].)		
	Is there any malfunction?		
7	INSPECT APP SENSOR NO.2 SIGNAL CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to
	FOR SHORT TO POWER SUPPLY		power supply, then go to Step 9.
	• Switch the ignition to off.	No	Go to the next step.
	Disconnect the APP sensor connector.		
	• Access the APP2 PID using the M-MDS.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0].)		
	• Verify the APP2 PID value.		
8	• Is the APP2 PID value 5 V or B+? INSPECT APP SENSOR NO.2 GROUND	Yes	Replace the accelerator pedal, then go to the next step.
0	CIRCUIT FOR OPEN CIRCUIT	165	(See ACCELERATOR PEDAL REMOVAL/INSTALLATION
	Verify that the APP sensor connector is		[SKYACTIV-G 2.0].)
	disconnected.	No	Repair or replace the wiring harness for a possible open
	Switch the ignition to off.	INU	circuit, then go to the next step.
	Disconnect the PCM connector.		circuit, then go to the next step.
	Inspect for continuity between APP sensor		
	terminal D (wiring harness-side) and PCM		
	terminal 2AT (wiring harness-side).		
	• Is there continuity?		
9	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		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		·
	[SKYACTIV-G 2.0].)		
	• Start the engine.		
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-G		
	2.0].)		
	Is the same DTC present?		
10	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?		