DTC P2122:00 [SKYACTIV-G 2.0]

id0102h1708300

DTC P2122:00	APP sensor No.1 circuit low input				
DETECTION CONDITION	• This is a continuous monitor (CCM)				
FAIL-SAFE FUNCTION	Regulates the upper limit of the APP sensor output.				
POSSIBLE CAUSE	I • APP sensor No 1 signal circuit and ground circuit are shorted to each other				
	APP SENSOR NO.1 (APP SENSOR)				
WI	APP SENSOR RING 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 2AI 2AG 2AC 2Y 2U 2Q 2M 2I 2E 2A 2BD 2AY 2AT 2AO 2AJ 2AH 2AD 2Z 2V 2R 2N 2J 2F 2B				

Diagnostic Procedure

Diagin	Diagnostic i rocedure					
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 to 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
7	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].)
			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).		·
<u></u>	Is there any malfunction?		
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		each other, then go to Step 9.
	OTHER	No	Go to the next step.
	Verify that the APP sensor and PCM connectors		
	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 APP sensor terminal B—PCM termi		
	— APP sensor terminal B—PCM terminal 2ANIs there continuity?		
8	INSPECT APP SENSOR NO.1	Yes	Replace the accelerator pedal, then go to the next step.
"	Reconnect all disconnected connectors.	163	(See ACCELERATOR PEDAL REMOVAL/INSTALLATION
	Inspect the APP sensor No.1.		[SKYACTIV-G 2.0].)
	(See ACCELERATOR PEDAL POSITION (APP)	No	Go to the next step.
	SENSOR INSPECTION [SKYACTIV-G 2.0].)	140	Go to the next step.
	• Is there any malfunction?		
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?		

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].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0].)		
	Are any DTCs present?		