DTC P2123:00 [SKYACTIV-G 2.0]

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DTC P2123:00	APP sensor No.1 circuit high input				
DETECTION CONDITION	 The PCM monitors the input voltage from APP sensor No.1 when the engine is running. If the input voltage at the PCM terminal 2AN is above 4.9 V, the PCM determines that the APP sensor No.1 circuit input voltage is high. 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. The 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 PCM connector or terminals malfunction APP sensor No.1 malfunction Short to power supply in wiring harness between APP sensor terminal B and PCM terminal 2AN Open circuit in wiring harness between APP sensor terminal C and PCM terminal 2AO PCM malfunction 				
	(a)				

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
	SSIFY APP SENSOR NO.1 MALFUNCTION	Yes	Go to Step 7.
I I	WIRING HARNESS MALFUNCTION	No	Go to the next step.
I I	cess the APP1 PID using the M-MDS.		
	e ON-BOARD DIAGNOSTIC TEST		
l jsk	(YACTIV-G 2.0].)		
	rify the APP1 PID value.		
	he APP1 PID value 5 V or B+ ?		
4 INSF	PECT APP SENSOR CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
CON	IDITION		Step 9.
• Sw	itch the ignition to off.	No	Go to the next step.
• Dis	connect the APP sensor connector.		·
• Ins	pect for poor connection (such as damaged/		
	led-out pins, corrosion).		
	here any malfunction?		
5 INS F	PECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	connect the PCM connector.		Step 9.
	pect for poor connection (such as damaged/	No	Go to the next step.
	led-out pins, corrosion).		
	here any malfunction?		
	PECT APP SENSOR NO.1	Yes	Replace the accelerator pedal, then go to Step 9.
	connect all disconnected connectors.		(See ACCELERATOR PEDAL REMOVAL/INSTALLATION
	pect the APP sensor No.1.		[SKYACTIV-G 2.0].)
1 '	ee ACCELERATOR PEDAL POSITION (APP)	No	Go to Step 9.
	NSOR INSPECTION [SKYACTIV-G 2.0].)		
	here any malfunction?		
	PECT APP SENSOR NO.1 SIGNAL CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to
	SHORT TO POWER SUPPLY		power supply, then go to Step 9.
	itch the ignition to off.	No	Go to the next step.
	connect the APP sensor connector.		
	cess the APP1 PID using the M-MDS.		
1 '	ee ON-BOARD DIAGNOSTIC TEST		
	(YACTIV-G 2.0].)		
	rify the APP1 PID value.		
	he APP1 PID value 5 V or B+?	Vaa	Devices the conservator model them as to the most star
	PECT APP SENSOR NO.1 GROUND CUIT FOR OPEN CIRCUIT	Yes	Replace the accelerator pedal, then go to the next step.
			(See ACCELERATOR PEDAL REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)
I	rify that the APP sensor connector is connected.	No	Repair or replace the wiring harness for a possible open
	itch the ignition to off.	INO	circuit, then go to the next step.
	connect the PCM connector.		circuit, then go to the next step.
	pect for continuity between APP sensor		
	minal C (wiring harness-side) and PCM		
	minal 2AO (wiring harness-side).		
	here continuity?		
	IFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	MPLETED		If the malfunction recurs, replace the PCM.
• Ma	ke sure to reconnect all disconnected		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G
	nnectors.		2.0].)
	ear the DTC from the PCM memory using the		Go to the next step.
	MDS.	No	Go to the next step.
(Se	e AFTER REPAIR PROCEDURE		r contract of the contract of
1 '	(YACTIV-G 2.0].)		
	irt the engine.		
	form the KOEO or KOER self test.		
	e KOEO/KOER SELF TEST [SKYACTIV-G		
2.0			
	he same DTC present?		
	IFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
	form the "AFTER REPAIR PROCEDURE".		(See DTC TABLE [SKYACTIV-G 2.0].)
	TOTAL TERRETAIN TROOFBONE :	1	
	e AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
(Se		No	