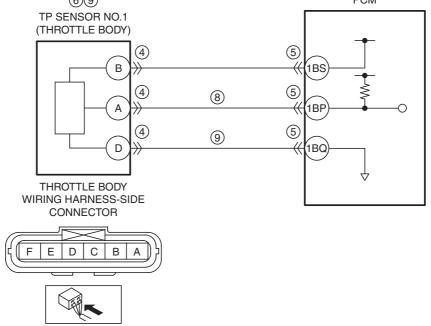
DTC P0123:00 [SKYACTIV-G 2.0]

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DTC P0123:00	TP sensor No.1 circuit high input				
	• If the PCM detects that the TP sensor No.1 voltage at the PCM terminal 1BP is above 4.9 V after the ignition is switched to ON, the PCM determines that the TP sensor No.1 circuit has a malfunction.				
	Diagnostic support note				
DETECTION	This is a continuous monitor (CCM).				
CONDITION	• 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	Restricts the upper limit of the engine speed.				
	Throttle body connector or terminals malfunction				
	PCM connector or terminals malfunction				
	• TP sensor No.1 malfunction				
POSSIBLE	Short to power supply in wiring harness between throttle body terminal A and PCM terminal 1BP				
CAUSE	Open circuit in wiring harness between the following terminals:				
	Throttle body terminal A—PCM terminal 1BP				
	Throttle body terminal D—PCM terminal 1BQ				
	• PCM malfunction				
	69 PCM				



| TEE | TEA | TOW| TOS | TOO | TOK | TOG | TOK |

PCM WIRING HARNESS-SIDE CONNECTOR

Diagnostic Procedure

Diagnostic i roccaire					
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?				

STEP	INSPECTION		ACTION
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.
3	CLASSIFY TP SENSOR NO.1 MALFUNCTION	Yes	Go to Step 7.
	OR WIRING HARNESS MALFUNCTION	No	Go to the next step.
	Access the TP1 PID using the M-MDS.		,
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0].)		
	Verify the TP1 PID value.		
	• Is the TP1 PID value 5 V or B+?		
4	INSPECT THROTTLE BODY CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 10.
	Switch the ignition to off.	No	Go to the next step.
	Disconnect the throttle body 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 10.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).		
	Is there any malfunction?		
6	INSPECT TP SENSOR NO.1	Yes	Replace the throttle body, then go to Step 10.
	Reconnect all disconnected connectors.		(See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION
	Inspect the TP sensor No.1.		[SKYACTIV-G 2.0].)
	(See THROTTLE POSITION (TP) SENSOR	No	Go to Step 10.
	INSPECTION [SKYACTIV-G 2.0].)		
	Is there any malfunction?		
7	CLASSIFY TP SENSOR NO.1 SIGNAL CIRCUIT	Yes	Go to the next step.
	MALFUNCTION OR TP SENSOR NO.1 GROUND	No	Go to Step 9.
	CIRCUIT MALFUNCTION		
	Switch the ignition to off.		
	Disconnect the throttle body connector.		
	Access the TP1 PID using the M-MDS.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0].)		
	Verify the TP1 PID value.		
	• Is the TP1 PID value 5 V or B+ ?	.,	
8	INSPECT TP SENSOR NO.1 SIGNAL CIRCUIT	Yes	Repair or replace the wiring harness for a possible short to
	FOR OPEN CIRCUIT		power supply, then go to Step 10.
	Verify that the throttle body connector is	No	Repair or replace the wiring harness for a possible open
	disconnected.		circuit, then go to Step 10.
	• Switch the ignition to off.		
	Disconnect the PCM connector.		
	• Inspect for continuity between throttle body		
	terminal A (wiring harness-side) and PCM		
	terminal 1BP (wiring harness-side).		
9	• Is there continuity? INSPECT TP SENSOR NO.1 GROUND CIRCUIT	Voo	Replace the throttle body, then go to the next step.
9	FOR OPEN CIRCUIT	Yes	(See INTAKE-AIR SYSTEM REMOVAL/INSTALLATION
	Verify that the throttle body connector is disconnected.	No	[SKYACTIV-G 2.0].)
	Switch the ignition to off.	No	Repair or replace the wiring harness for a possible open
	Disconnect the PCM connector.		circuit, then go to the next step.
	Inspect for continuity between throttle body		
	terminal D (wiring harness-side) and PCM		
	terminal 1BQ (wiring harness-side) and PCM terminal 1BQ (wiring harness-side).		
	• Is there continuity?		
	is there continuity?		

STEP	INSPECTION		ACTION
10	VERIFY DTC TROUBLESHOOTING COMPLETED • Make sure to reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].) • Start the engine and warm it up completely. • Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].) • Is the same DTC present?	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].) Go to the next step. Go to the next step.
11	• Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].) • Are any DTCs present?	Yes No	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0].) DTC troubleshooting completed.