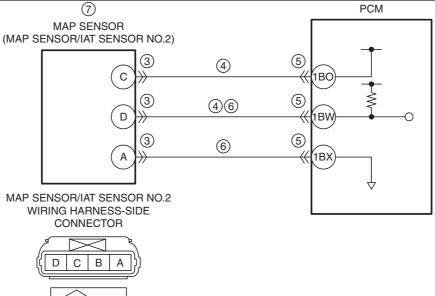
DTC P0107:00 [SKYACTIV-G 2.0]

id0102h1701100

DTC P0107:00	MAP sensor circuit low input
	• The PCM monitors the input voltage from the MAP sensor. If the input voltage at the PCM terminal 1BW is below 0.08 V for 5 s , the PCM determines that the MAP sensor 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	Estimates MAP using MAF sensor and engine speed.
FUNCTION	Restricts the upper limit of the engine speed.
FUNCTION	Inhibits the evaporative purge control.
	MAP sensor/IAT sensor No.2 connector or terminals malfunction
	Short to ground in wiring harness between the following terminals:
	MAP sensor/IAT sensor No.2 terminal C—PCM terminal 1BO
POSSIBLE	MAP sensor/IAT sensor No.2 terminal D—PCM terminal 1BW
CAUSE	PCM connector or terminals malfunction
	MAP sensor signal circuit and ground circuit are shorted to each other
	MAP sensor malfunction
	PCM malfunction
	7) PCM



PCM WIRING HARNESS-SIDE CONNECTOR

| TEE | TEA | DW | TDS | TDO | TDK | DG | TEE | TEB | TDA | TCW | TCS | TCO | TCK | TCG | TCC | TBY | TEE | TEB | TDA | TDF | TDC | TCV | TCC |

1BR	1BM	1BH	1BC	1AX	1AS	1AN	1AI
1BS	1BN	1BI	1BD	1AY	1AT	1AO	1AJ
1BT	1BO	1BJ	1BE	1AZ	1AU	1AP	1AK
1BU	1BP	1BK	1BF	1BA	1AV	1AQ	1AL
1BV	1BQ	1BL	1BG	1BB	1AW	1AR	1AM

1AD	1Y	1T	10	1J	1E	1A
	1Z					
	1AA					
	1AB					1D
1AH	1AC	1X	1S	1N	11	



Diagnostic Procedure

Diagin	Diagnostic i rocedure					
STEP	INSPECTION	ACTION				
1	VERIFY FREEZE FRAME DATA (MODE 2)/SNAPSHOT	Yes	Go to the next step.			
	DATA HAS BEEN RECORDED	No	Record the FREEZE FRAME DATA (Mode 2)/			
	• Has the FREEZE FRAME DATA (Mode 2)/snapshot data been		snapshot data on the repair order, then go to the			
	recorded?		next step.			

STEP	INSPECTION		ACTION
2	VERIFY RELATED SERVICE INFORMATION AVAILABILITY	Yes	Perform repair or diagnosis according to the
	Verify related Service Information availability.		available Service Information.
	Is any related Service Information available?		If the vehicle is not repaired, go to the next
	•		step.
		No	Go to the next step.
3	INSPECT MAP SENSOR/IAT SENSOR NO.2 CONNECTOR	Yes	Repair or replace the connector and/or
	CONDITION		terminals, then go to Step 8.
	Switch the ignition to off.	No	Go to the next step.
	 Disconnect the MAP sensor/IAT sensor No.2 connector. 		·
	• Inspect for poor connection (such as damaged/pulled-out pins,		
	corrosion).		
	Is there any malfunction?		
4	INSPECT MAP SENSOR CIRCUIT FOR SHORT TO GROUND	Yes	If the short to ground circuit could be detected
	 Verify that the MAP sensor/IAT sensor No.2 connector is 		in the wiring harness:
	disconnected.		Repair or replace the wiring harness for a
	Inspect for continuity between the following terminals (wiring)		possible short to ground.
	harness-side) and body ground:		If the short to ground circuit could not be
	MAP sensor/IAT sensor No.2 terminal C		detected in the wiring harness:
	MAP sensor/IAT sensor No.2 terminal D		• Replace the PCM (short to ground in the PCM
	Is there continuity?		internal circuit).
			(See PCM REMOVAL/INSTALLATION
			[SKYACTIV-G 2.0].)
		No	Go to Step 8. Go to the next step.
5	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or
3	• Disconnect the PCM connector.	165	terminals, then go to Step 8.
	 Inspect for poor connection (such as damaged/pulled-out pins, 	No	Go to the next step.
	corrosion).	110	Go to the flext step.
	Is there any malfunction?		
6	INSPECT MAP SENSOR SIGNAL CIRCUIT AND GROUND	Yes	Repair or replace the wiring harness for a
	CIRCUIT FOR SHORT TO EACH OTHER		possible short to each other, then go to Step 8.
	 Verify that the MAP sensor/IAT sensor No.2 and PCM 	No	Go to the next step.
	connectors are disconnected.		
	 Inspect for continuity between MAP sensor/IAT sensor No.2 		
	terminals D and A (wiring harness-side).		
	Is there continuity?		
7	INSPECT MAP SENSOR	Yes	Replace the MAP sensor/IAT sensor No.2, then
	Reconnect all disconnected connectors.		go to the next step.
	Inspect the MAP sensor. (See MANUFOLD ARCOLUTE PRESCUE)		(See MANIFOLD ABSOLUTE PRESSURE
	(See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR INSPECTION [SKYACTIV-G 2.0].)		(MAP) SENSOR/INTAKE AIR
	• Is there any malfunction?		TEMPERATURE (IAT) SENSOR NO.2 REMOVAL/INSTALLATION [SKYACTIV-G
	is there any manufiction:		2.0].)
		No	Go to the next step.
8	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	·
	Make sure to reconnect all disconnected connectors.	. 55	• If the malfunction recurs, replace the PCM.
	Clear the DTC from the PCM memory using the M-MDS.		(See PCM REMOVAL/INSTALLATION
	(See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].)		[SKYACTIV-G 2.0].)
	• Start the engine and warm it up completely.		Go to the next step.
	Perform the KOEO or KOER self test.	No	Go to the next step.
	(See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].)		'
	• Is the same DTC present?		
9	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 [SKYACTIV-G 2.0].)	No	DTC troubleshooting completed.
	Are any DTCs present?		