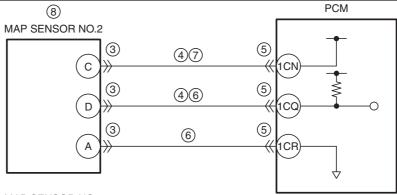
DTC P0107:00	MAP sensor No.2 circuit low input			
DETECTION CONDITION	 The PCM monitors the input voltage from the MAP sensor No.2. If the input voltage at the PCM terminal 1CQ is below 0.33 V for 4 s, the PCM determines that the MAP sensor No.2 circuit has a malfunction. MONITORING CONDITIONS — Battery voltage: 8—20 V — Intake shutter valve opening angle: above 8 ° 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. • DTC is stored in the PCM memory. 			
FAIL-SAFE FUNCTION	PCM restricts engine torque. Inhibits the EGR control. Inhibits the diesel particulate filter regeneration control.			
POSSIBLE CAUSE	MAP sensor No.2 connector or terminals malfunction Short to ground in wiring harness between the following terminals: — MAP sensor No.2 terminal C—PCM terminal 1CN — MAP sensor No.2 terminal D—PCM terminal 1CQ • PCM connector or terminals malfunction • MAP sensor No.2 signal circuit and ground circuit are shorted to each other • Open circuit in wiring harness between MAP sensor No.2 terminal C and PCM terminal 1CN • MAP sensor No.2 malfunction • PCM malfunction			
	DCM			



MAP SENSOR NO.2 WIRING HARNESS-SIDE CONNECTOR



PCM WIRING HARNESS-SIDE CONNECTOR

	,	
	CITTURE CONTRACTOR CON	
/	TEE TEA TOWN TOS TOO	1BR1BM1BH1BC1AX1AS1AN1AI 1AD1Y1T1O1J1E1A
	1EF 1EB 1DX 1DT 1DP 1DL 1DH 1DB 1CX 1CT 1CP 1CL 1CH 1CD 1BZ	1BS 1BN 1BI 1BD 1AY 1AT 1AO 1AJ 1AE 1Z 1U 1P 1K 1F 1B
		1BT 1BO 1BJ 1BE 1AZ 1AU 1AP 1AK 1AF 1AA 1V 1Q 1L 1G 1C
	1EI 1EG1EC 1DY 1DU1DQ1DM 1DI 1DE1DC 1CY 1CU1CQ1CM 1CI 1CE1CA1BW	1BU1BP1BK1BF1BA1AV1AQ1AL 1AG1AB1W1R1M1H1D
\	1EJ 1EH 1ED 1DZ 1DV 1DR 1DN 1DJ 1DF 1DD 1CZ 1CV 1CR 1CN 1CJ 1CF 1CB 1BX	1BV 1BQ 1BL 1BG 1BB 1AW 1AR 1AM 1AH 1AC 1X 1S 1N 1I
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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)/	110	on the repair order, then go to the next step.
	snapshot data been recorded?		on the repair order, then go to the next step.
2	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available
_	AVAILABILITY	100	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	INSPECT MAP SENSOR NO.2 CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION	100	Step 9.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the MAP sensor No.2 connector.	''	or to the next step.
	• Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT MAP SENSOR NO.2 CIRCUIT FOR	Yes	If the short to ground circuit could be detected in the wiring
	SHORT TO GROUND		harness:
	 Verify that the MAP sensor No.2 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:
	 MAP sensor No.2 terminal C 		Replace the PCM (short to ground in the PCM internal
	 MAP sensor No.2 terminal D 		circuit).
	Is there continuity?		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
			2.2].)
		N 1.	Go to Step 9.
	INCRECT DOM CONNECTOR CONDITION	No	Go to the next step.
5	INSPECT PCM CONNECTOR CONDITION • Disconnect the PCM connector.	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
	Inspect for poor connection (such as damaged/	No	Go to the next step.
	pulled-out pins, corrosion).	110	Go to the next step.
	• Is there any malfunction?		
6	INSPECT MAP SENSOR NO.2 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 MAP sensor No.2 and PCM		·
	connectors are disconnected.		
	• Inspect for continuity between MAP sensor No.2		
	terminals D and A (wiring harness-side).		
	• Is there continuity?		
7	INSPECT MAP SENSOR NO.2 POWER SUPPLY	Yes	·
	• Verify that the MAP sensor No.2 and PCM	No	Repair or replace the wiring harness for a possible open
	connectors are disconnected.		circuit, then go to Step 9.
	Inspect for continuity between MAP sensor No.2		
	terminal C (wiring harness-side) and PCM		
	terminal 1CN (wiring harness-side).		
	• Is there continuity?		
8	INSPECT MAP SENSOR NO.2	Yes	Replace the MAP sensor No.2, then go to the next step.
	Reconnect all disconnected connectors.		(See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR
	Inspect the MAP sensor No.2.		REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
	(See MANIFOLD ABSOLUTE PRESSURE (MAP)	No	Go to the next step.
	SENSOR INSPECTION [SKYACTIV-D 2.2].)		
	• Is there any malfunction?		
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STEP	INSPECTION		ACTION
9	VERIFY DTC TROUBLESHOOTING	Yes	Repeat the inspection from Step 1.
	COMPLETED		If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-D
	Clear the DTC from the PCM memory using the		2.2].)
	M-MDS.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	[SKYACTIV-D 2.2].)		
	Perform the KOEO or KOER self test.		
	(See KOEO/KOER SELF TEST [SKYACTIV-D		
	2.2].)		
	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-D 2.2].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-D 2.2].)		
	Are any DTCs present?		