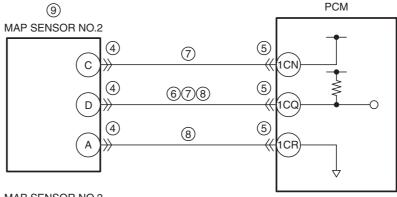
## DTC P0108:00 [SKYACTIV-D 2.2]

id0102s4701200

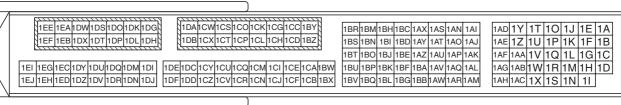
DTC P0108:00	MAP sensor No.2 circuit high input				
DETECTION CONDITION	The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle.				
	<ul> <li>FREEZE FRAME DATA (Mode 2)/Snapshot data is available.</li> <li>DTC is stored in the PCM memory.</li> </ul>				
FAIL-SAFE FUNCTION	PCM restricts engine torque.     Inhibits the EGR control.     Inhibits the diesel particulate filter regeneration control.				
POSSIBLE CAUSE	<ul> <li>Turbocharger malfunction</li> <li>MAP sensor No.2 connector or terminals malfunction</li> <li>PCM connector or terminals malfunction</li> <li>Short to power supply in wiring harness between MAP sensor No.2 terminal D and PCM terminal 1CQ</li> <li>MAP sensor No.2 power supply circuit and signal circuit are shorted to each other</li> <li>Open circuit in wiring harness between the following terminals: <ul> <li>MAP sensor No.2 terminal D—PCM terminal 1CQ</li> <li>MAP sensor No.2 terminal A—PCM terminal 1CR</li> </ul> </li> <li>MAP sensor No.2 malfunction</li> <li>PCM malfunction</li> </ul>				
1 CM Manufiction					



MAP SENSOR NO.2 WIRING HARNESS-SIDE CONNECTOR



## PCM WIRING HARNESS-SIDE CONNECTOR





**Diagnostic Procedure** 

STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Voo	
'	, , ,	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)/      Property of the		on the repair order, then go to the next step.
	snapshot data been recorded?		D. Communication Production and Prod
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	VERIFY RELATED PENDING CODE AND/OR	Yes	Go to the applicable PENDING CODE or DTC inspection.
	DTC		(See DTC TABLE [SKYACTIV-D 2.2].)
	Switch the ignition off, then ON (engine off).	No	Go to the next step.
	Perform the Pending Trouble Code Access		
	Procedure and DTC Reading Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-D 2.2].)		
	Are any other PENDING CODEs and/or DTCs		
	present?		
4	INSPECT MAP SENSOR NO.2 CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 10.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the MAP sensor No.2 connector.		
	<ul> <li>Inspect for poor connection (such as damaged/</li> </ul>		
	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).	''	oo to the next step.
	• Is there any malfunction?		
6	INSPECT MAP SENSOR NO.2 CIRCUIT FOR	Yes	Go to the next step.
	SHORT TO POWER SUPPLY	No	Repair or replace the wiring harness for a possible short to
	Verify that the MAP sensor No.2 and PCM		power supply, then go to Step 10.
	connectors are disconnected.		power capping, areas go to etop i.e.
	Switch the ignition ON (engine off).		
	Measure the voltage at the MAP sensor No.2		
	terminal D (wiring harness-side).		
	• Is the voltage <b>0 V</b> ?		
7	INSPECT MAP SENSOR NO.2 POWER SUPPLY	Yes	Repair or replace the wiring harness for a possible short to
	CIRCUIT AND SIGNAL CIRCUIT FOR SHORT TO		each other, then go to Step 10.
	EACH OTHER	No	Go to the next step.
	Verify that the MAP sensor No.2 and PCM		oo to the more otep.
	connectors are disconnected.		
	Switch the ignition off.		
	Inspect for continuity between MAP sensor No.2		
	terminals C and D (wiring harness-side).		
	• Is there continuity?		
8	INSPECT MAP SENSOR NO.2 CIRCUIT FOR	Yes	Go to the next step.
	OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the MAP sensor No.2 and PCM		circuit, then go to Step 10.
	connectors are disconnected.		, ,
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	MAP sensor No.2 terminal D—PCM terminal		
	1CQ		
	MAP sensor No.2 terminal A—PCM terminal		
	1CR		
	• Is there continuity?		
	15 there continuity:		

STEP	INSPECTION		ACTION
9	<ul> <li>INSPECT MAP SENSOR NO.2</li> <li>Reconnect all disconnected connectors.</li> <li>Inspect the MAP sensor No.2.</li> <li>(See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>Is there any malfunction?</li> </ul>	Yes	Replace the MAP sensor No.2, then go to the next step. (See MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
10	VERIFY DTC TROUBLESHOOTING COMPLETED  • Always reconnect all disconnected connectors. • Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [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?	Yes	Repeat the inspection from Step 1.  • If the malfunction recurs, replace the PCM.  (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)  Go to the next step.  Go to the next step.
11	VERIFY AFTER REPAIR PROCEDURE  • Perform the "AFTER REPAIR PROCEDURE".  (See AFTER REPAIR PROCEDURE  [SKYACTIV-D 2.2].)  • Are any DTCs present?	Yes No	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].) DTC troubleshooting completed.