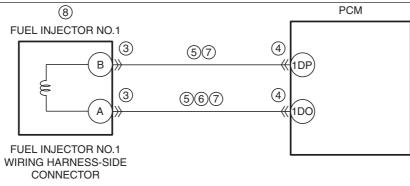
DTC P0201:00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id0102h4147900

DTC P0201:00	Fuel injector circuit/open cylinder No.1			
DETECTION CONDITION	 If the fuel injection verification signal is not input at 25 times continuously even though the PCM drives the fuel injector No.1, the PCM determines that there is an open circuit in the fuel injector No.1 control circuit. MONITORING CONDITIONS — The following conditions are met: Battery voltage: 10.5 V or more Fuel injection control: except during fuel cut 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	Not applicable			
POSSIBLE CAUSE	Fuel injector No.1 connector or terminals malfunction PCM connector or terminals malfunction Short to ground in wiring harness between the following terminals: Fuel injector No.1 terminal B—PCM terminal 1DP Fuel injector No.1 terminal A—PCM terminal 1DO Short to power supply in wiring harness between fuel injector No.1 terminal A and PCM terminal 1DO Open circuit in wiring harness between the following terminals: Fuel injector No.1 terminal B—PCM terminal 1DP Fuel injector No.1 terminal A—PCM terminal 1DO Fuel injector No.1 malfunction PCM malfunction			
	8 PCM			





PCM WIRING HARNESS-SIDE CONNECTOR

1EE 1EA I DW 1DS 1DO 1DK 1DG	1DA CW1CS CO 1CK CG 1CC 1BY	1BR1BM1BH1BC1AX1AS1AN1AI	1AD 1Y 1T 1O 1J 1E 1A
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 1EG1EC1DY1DU1DQ1DM1DI	1DE 1DC 1CY 1CU 1CQ 1CM 1CI 1CE 1CA BW	1BU 1BP 1BK 1BF 1BA 1AV 1AQ 1AL	1AG 1AB 1W 1R 1M 1H 1D
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
		_	

Diagnostic Procedure

STEP	INSPECTION		ACTION
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Vac	
'	SNAPSHOT DATA HAS BEEN RECORDED	Yes No	Go to the next step. Record the FREEZE FRAME DATA (Mode 2)/snapshot data
		INO	, , , ,
	Has the FREEZE FRAME DATA (Mode 2)/ Appropriate the page recorded?		on the repair order, then go to the next step.
	snapshot data been recorded?	Vaa	Deuferme remain or discussed according to the excellent
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	INSPECT FUEL INJECTOR NO.1 CONNECTOR	Yes	Repair or replace the connector and/or terminals, then go to
	CONDITION		Step 9.
	Switch the ignition off.	No	Go to the next step.
	Disconnect the fuel injector No.1 connector.		
	Inspect for poor connection (such as damaged/		
	pulled-out pins, corrosion).		
	Is there any malfunction?		
4	INSPECT PCM CONNECTOR CONDITION	Yes	Repair or replace the connector and/or terminals, then go to
	Disconnect the PCM connector.		Step 9.
	 Inspect for poor connection (such as damaged/ 	No	Go to the next step.
	pulled-out pins, corrosion).		
	Is there any malfunction?		
5	INSPECT FUEL INJECTOR NO.1 CIRCUIT FOR	Yes	Repair or replace the wiring harness for a possible short to
	SHORT TO GROUND		ground, then go to Step 9.
	 Verify that the fuel injector No.1 and PCM 	No	Go to the next step.
	connectors are disconnected.		
	Inspect for continuity between the following		
	terminals (wiring harness-side) and body ground:		
	 Fuel injector No.1 terminal B 		
	 Fuel injector No.1 terminal A 		
	Is there continuity?		
6	INSPECT FUEL INJECTOR NO.1 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 fuel injector No.1 and PCM		power supply, then go to Step 9.
	connectors are disconnected.		
	Switch the ignition ON (engine off).		
	Note		
	 Another DTC may be stored by the PCM 		
	detecting an open circuit.		
	Measure the voltage at the fuel injector No.1		
	terminal A (wiring harness-side).		
<u></u>	• Is the voltage 0 V ?		
7	INSPECT FUEL INJECTOR NO.1 CIRCUIT FOR	Yes	Go to the next step.
	OPEN CIRCUIT	No	Repair or replace the wiring harness for a possible open
	Verify that the fuel injector No.1 and PCM		circuit, then go to Step 9.
	connectors are disconnected.		
	Switch the ignition off.		
	Inspect for continuity between the following		
	terminals (wiring harness-side):		
	 Fuel injector No.1 terminal B—PCM terminal 		
	1DP		
	 Fuel injector No.1 terminal A—PCM terminal 		
	1DO		
	• Is there continuity?		
8	INSPECT FUEL INJECTOR NO.1	Yes	Replace the fuel injector No.1, then go to the next step.
	Inspect the fuel injector No.1.	. 55	(See FUEL INJECTOR REMOVAL/INSTALLATION
	(See FUEL INJECTOR INSPECTION		[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	No	Go to the next step.
	• Is there any malfunction?	INU	Oo to the heat step.
	is there any manuficuon?		

STEP	INSPECTION		ACTION
9	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-G 2.0, SKYACTIV-G 2.5].) • Start the engine. • Perform the KOEO or KOER self test.	Yes	1121121
	(See KOEO/KOER SELF TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) • Is the same DTC present?		
10	• Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	Yes No	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) DTC troubleshooting completed.
	• Are any DTCs present?		