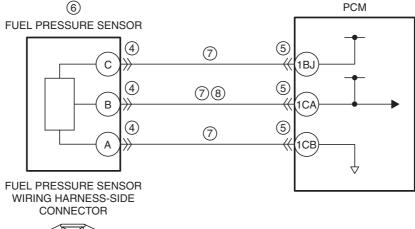
DTC P0193:00 [SKYACTIV-G 2.0]

id0102h1147800

DTC P0193:00	Fuel pressure sensor circuit high input
	• If the input voltage at the PCM terminal 1CA is more than 4.86 V for 5 s , the PCM determines that the fuel pressure sensor circuit is high.
	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	Stops the high pressure fuel pump control.
FUNCTION	Limits the intake air amount.
	Fuel pressure sensor connector or terminals malfunction
	PCM connector or terminals malfunction
	Fuel pressure sensor malfunction
POSSIBLE	• Short to power supply in wiring harness between fuel pressure sensor terminal B and PCM terminal 1CA
CAUSE	Open circuit in wiring harness between the following terminals:
CAUSE	Fuel pressure sensor terminal B—PCM terminal 1CA
	Fuel pressure sensor terminal A—PCM terminal 1CB
	Fuel pressure sensor terminal C—PCM terminal 1BJ
	PCM malfunction
1	DOM





PCM WIRING HARNESS-SIDE CONNECTOR

Щ,				
	Contraction Contraction			
/	1EE 1EA DW1DS 1DO 1DK 1DG 1DA 1CW1CS	CO1CK 1CG 1CC 1BY	1BR 1BM 1BH 1BC 1AX 1AS 1AN 1AI 1AD 1Y 1	T 10 1J 1E 1A
			1BS 1BN 1BI 1BD 1AY 1AT 1AO 1AJ 1AE 1Z 1	U 1P 1K 1F 1B
			1BT 1BO 1BJ 1BE 1AZ 1AU 1AP 1AK 1AF 1AA 1	V 1Q 1L 1G 1C
	1EI 1EG 1EC 1DY 1DU1DQ1DM 1DI 1DE 1DC 1CY 1CU	CQ1CM 1CI 1CE 1CA1BW	1BU 1BP 1BK 1BF 1BA 1AV 1AQ 1AL 1AG 1AB 1	W 1R 1M 1H 1D
	1EJ 1EH 1ED 1DZ 1DV 1DR 1DN 1DJ 1DF 1DD 1CZ 1CV	CR 1CN 1CJ 1CF 1CB 1BX	1BV 1BQ 1BL 1BG 1BB 1AW 1AR 1AM 1AH 1AC 1	X 1S 1N 1I
)		



Diagnostic Procedure

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
	recorded?		the next step.

STEP	INSPECTION		ACTION
2	VERIFY RELATED SERVICE INFORMATION AVAILABILITY	Yes	Perform repair or diagnosis according to the
_	Verify related Service Information availability.	103	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	CLASSIFY FUEL PRESSURE SENSOR MALFUNCTION OR	Yes	When the voltage is 5V
	WIRING HARNESS MALFUNCTION		Go to Step 7.
	Access the FUEL_PRES PID using the M-MDS.		When the voltage is B+
	(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].)		Go to Step 8.
	Verify the FUEL_PRES PID value.	No	Go to the next step.
	• Is the FUEL_PRES PID value 5 V or B+ ?	.,	
4	INSPECT FUEL PRESSURE SENSOR CONNECTOR	Yes	Repair or replace the connector and/or
	CONDITION Switch the ignition to off	Nia	terminals, then go to Step 9.
	Switch the ignition to off. Disconnect the fuel procesure connector.	No	Go to the next step.
	 Disconnect the fuel pressure sensor 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
-	Disconnect the PCM connector.		terminals, then go to Step 9.
	• Inspect for poor connection (such as damaged/pulled-out pins,	No	Go to the next step.
	corrosion).		·
	Is there any malfunction?		
6	INSPECT FUEL PRESSURE SENSOR	Yes	Replace the fuel distributor, then go to Step 9.
	Reconnect all disconnected connectors.		(See FUEL INJECTOR REMOVAL/
	Inspect the fuel pressure sensor.		INSTALLATION [SKYACTIV-G 2.0].)
	(See FUEL PRESSURE SENSOR INSPECTION [SKYACTIV-	No	Go to Step 9.
	G 2.0].)		
7	• Is there any malfunction? INSPECT FUEL PRESSURE SENSOR CIRCUIT FOR OPEN	Yes	Replace the fuel distributor, then go to Step 9.
'	CIRCUIT	163	(See FUEL INJECTOR REMOVAL/
	Switch the ignition to off.		INSTALLATION [SKYACTIV-G 2.0].)
	Disconnect the fuel pressure sensor connector and PCM	No	Repair or replace the wiring harness for a
	connector.		possible open circuit, then go to Step 9.
	Inspect for continuity between the following terminals (wiring)		
	harness-side):		
	 Fuel pressure sensor terminal B—PCM terminal 1CA 		
	 Fuel pressure sensor terminal A—PCM terminal 1CB 		
	Fuel pressure sensor terminal C—PCM terminal 1BJ		
	• Is there continuity?		David and the street to the st
8	INSPECT FUEL PRESSURE SENSOR CIRCUIT FOR SHORT	Yes	Repair or replace the wiring harness for a
	TO POWER SUPPLY		possible short to power supply, then go to the
	Switch the ignition to off.Disconnect the fuel pressure sensor connector and PCM	No	next step. Replace the fuel distributor, then go to the next
	connector.	110	step.
	Measure the voltage at the fuel pressure sensor terminal B		(See FUEL INJECTOR REMOVAL/
	(wiring harness-side).		INSTALLATION [SKYACTIV-G 2.0].)
	• Is there any voltage?		
9	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1.
	Make sure to reconnect all disconnected connectors.		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. Parform the KOEO or KOED political.		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].)		
10	Is the same DTC present? VERIFY AFTER REPAIR PROCEDURE	Yes	Go to the applicable DTC inspection.
10	• Perform the "AFTER REPAIR PROCEDURE".	168	(See DTC TABLE [SKYACTIV-G 2.0].)
	(See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0].)	No	DTC troubleshooting completed.
	• Are any DTCs present?	110	DTO Troubleshooting completed.
	And any D100 produit:		