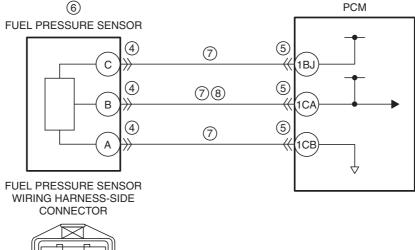
DTC P0193:00	Fuel pressure sensor circuit high input
	• If the input voltage at the PCM terminal 1CA is <b>more than 4.86 V</b> for <b>5 s</b> , the PCM determines that the fuel
	pressure sensor circuit is high.
	Diagnostic support note
DETECTION	· · ·
CONDITION	• The check engine light illuminates if the PCM detects the above malfunction condition during the first drive
	cycle.
	• FREEZE FRAME DATA (Mode 2)/Snapshot data is available.
	DTC is stored in the PCM memory.
FAIL-SAFE	Stops high pressure fuel pump control
<b>FUNCTION</b>	Limits 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 C—PCM terminal 1BJ
	Fuel pressure sensor terminal B—PCM terminal 1CA
	Fuel pressure sensor terminal A—PCM terminal 1CB
	PCM malfunction
	(6) PCM





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/	1EE 1EA DW1DS 1DO 1DK 1DG 1DA 1CW1CS 1C	CO1CK1CG1CC1BY 1BR1BM1BH1BC1AX1AS1AN1AI 1AD1Y1T1O1J1E1A
		CP 1CL 1CH 1CD 1BZ 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 1EG1EC1DY 1DU1DQ1DM 1DI 1DE1DC1CY1CU1C	CQ1CM 1CI 1CE 1CA BW   1BU 1BP 1BK 1BF 1BA 1AV 1AQ 1AL   1AG 1AB 1W 1R 1M 1H 1D
$\setminus$	1EJ 1EH 1ED 1DZ 1DV 1DR 1DN 1DJ 1DF 1DD 1CZ 1CV 1C	CR 1CN 1CJ 1CF 1CB 1BX 1BV 1BQ 1BL 1BG 1BB 1AW 1AR 1AM 1AH 1AC 1X 1S 1N 1I
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STEP	P 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.		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	DETERMINE IF FUEL PRESSURE SENSOR OR WIRING	Yes	When the voltage is 5V
	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.
	SKYACTIV-G 2.5].)	No	Go to the next step.
	<ul><li>Verify the FUEL_PRES PID value.</li><li>Is the FUEL_PRES PID value 5 V or B+?</li></ul>		
4	INSPECT FUEL PRESSURE SENSOR CONNECTOR	Yes	Repair or replace the connector and/or
	CONDITION		terminals, then go to Step 9.
	Switch the ignition off.	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  • Disconnect the PCM connector.	Yes	Repair or replace the connector and/or
	<ul> <li>Inspect for poor connection (such as damaged/pulled-out pins,</li> </ul>	No	terminals, then go to Step 9.  Go to the next step.
	corrosion).	110	So to the flext step.
	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-		SKYACTIV-G 2.5].)
	G 2.0, SKYACTIV-G 2.5].)	No	Go to Step 9.
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 off.		INSTALLATION [SKYACTIV-G 2.0,
	Disconnect the fuel pressure sensor connector and PCM		SKYACTIV-G 2.5].)
	connector.	No	Repair or replace the wiring harness for a
	Inspect for continuity between the following terminals (wiring)		possible open circuit, then go to Step 9.
	harness-side):		
	<ul> <li>Fuel pressure sensor terminal C—PCM terminal 1BJ</li> </ul>		
	Fuel pressure sensor terminal B—PCM terminal 1CA		
	Fuel pressure sensor terminal A—PCM terminal 1CB  Letters continuit 2		
8	Is there continuity?  INSPECT FUEL PRESSURE SENSOR CIRCUIT FOR SHORT	Yes	Repair or replace the wiring harness for a
	TO POWER SUPPLY	162	possible short to power supply, then go to the
	Switch the ignition off.		next step.
	Disconnect the fuel pressure sensor connector and PCM	No	Replace the fuel distributor, then go to the next
	connector.		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?	L	SKYACTIV-G 2.5].)
9	VERIFY DTC TROUBLESHOOTING COMPLETED	Yes	Repeat the inspection from Step 1.
	Always reconnect all disconnected connectors.      Clear the DTC form the DCM marrow union the MADC.		• If the malfunction recurs, replace the PCM.
	Clear the DTC from the PCM memory using the M-MDS.  (See AFTER REPAIR PROCEDURE ISKYACTIVE 2.0)		(See PCM REMOVAL/INSTALLATION
	(See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		[SKYACTIV-G 2.0, SKYACTIV-G 2.5].) Go to the next step.
	• Start the engine.	No	Go to the next step.
	Perform the KOEO or KOER self test.	10	So to the next step.
	(See KOEO/KOER SELF TEST [SKYACTIV-G 2.0,		
	SKYACTIV-G 2.5].)		
	Is the same DTC present?		

STEP	INSPECTION		ACTION
10	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,		SKYACTIV-G 2.5].)
	SKYACTIV-G 2.5].)	No	DTC troubleshooting completed.
	Are any DTCs present?		