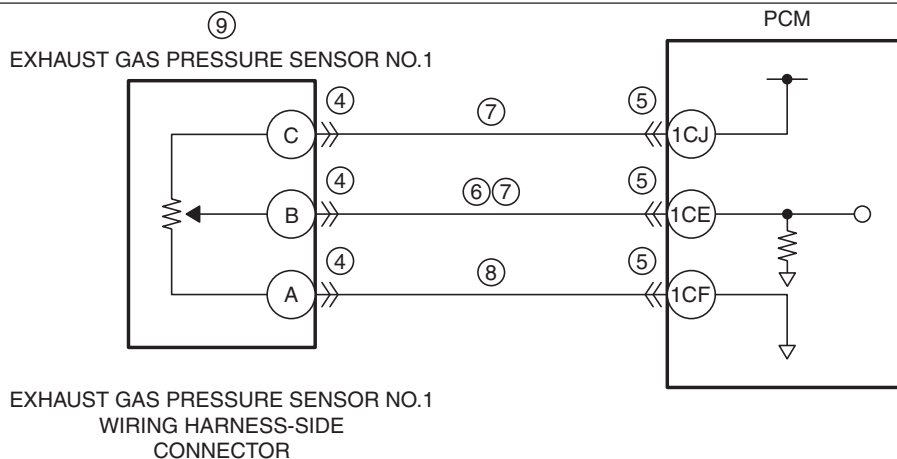
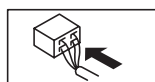


<b>DTC P0473:00</b>	<b>Exhaust gas pressure sensor No.1 circuit high input</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>If the input voltage at the PCM terminal 1CE is <b>more than 4.2 V for 10 s</b>, the PCM determines that the exhaust gas pressure sensor No.1 circuit has a malfunction.</li> </ul> <p><b>MONITORING CONDITIONS</b></p> <ul style="list-style-type: none"> <li>Battery voltage: <b>8—20 V</b></li> </ul> <p><b>Diagnostic support note</b></p> <ul style="list-style-type: none"> <li>This is a continuous monitor (CCM).</li> <li>The check engine light illuminates if the PCM detects the above malfunction condition during the first drive cycle.</li> <li>FREEZE FRAME DATA (Mode 2)/Snapshot data is available.</li> <li>DTC is stored in the PCM memory.</li> </ul>
<b>FAIL-SAFE FUNCTION</b>	<ul style="list-style-type: none"> <li>Inhibits the EGR control.</li> <li>Inhibits engine-stop by operating the i-stop function.</li> <li>PCM restricts engine-transaxle integration control.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Turbocharger malfunction</li> <li>Exhaust gas pressure sensor No.1 connector or terminals malfunction</li> <li>PCM connector or terminals malfunction</li> <li>Short to power supply in wiring harness between exhaust gas pressure sensor No.1 terminal B and PCM terminal 1CE</li> <li>Exhaust gas pressure sensor No.1 power supply circuit and signal circuit are shorted to each other</li> <li>Open circuit in wiring harness between exhaust gas pressure sensor No.1 terminal A and PCM terminal 1CF</li> <li>Exhaust gas pressure sensor No.1 malfunction</li> <li>PCM malfunction</li> </ul>



PCM WIRING HARNESS-SIDE CONNECTOR

1EE 1EA 1DW 1DS 1DO 1DK 1DG 1EF 1EB 1DX 1DT 1DP 1DL 1DH	1DA 1CW 1CS 1CO 1CK 1CG 1CC 1BY 1DB 1CX 1CT 1CP 1CL 1CH 1CD 1BZ	1BR 1BM 1BH 1BC 1AX 1AS 1AN 1AI 1BS 1BN 1BI 1BD 1AY 1AT 1AO 1AJ	1AD 1Y 1T 1O 1J 1E 1A 1AE 1Z 1U 1P 1K 1F 1B
1EI 1EG 1EC 1DY 1DU 1DQ 1DM 1DI 1EJ 1EH 1ED 1DZ 1DV 1DR 1DN 1DJ	1DE 1DC 1CY 1CU 1CQ 1CM 1CI 1CE 1CA 1BW 1DF 1DD 1CZ 1CV 1CR 1CN 1CJ 1CF 1CB 1BX	1BT 1BO 1BJ 1BE 1AZ 1AU 1AP 1AK 1BU 1BP 1BK 1BF 1BA 1AV 1AQ 1AL	1AF 1AA 1V 1Q 1L 1G 1C 1AG 1AB 1W 1R 1M 1H 1D
		1BV 1BQ 1BL 1BG 1BB 1AW 1AR 1AM	1AH 1AC 1X 1S 1N 1I



## Diagnostic Procedure

STEP	INSPECTION		ACTION
1	<b>VERIFY FREEZE FRAME DATA (MODE 2)/ SNAPSHOT DATA HAS BEEN RECORDED</b> <ul style="list-style-type: none"> <li>Has the FREEZE FRAME DATA (Mode 2)/ snapshot data been recorded?</li> </ul>	Yes	Go to the next step.
		No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data on the repair order, then go to the next step.
2	<b>VERIFY RELATED SERVICE INFORMATION AVAILABILITY</b> <ul style="list-style-type: none"> <li>Verify related Service Information availability.</li> <li>Is any related Service Information available?</li> </ul>	Yes	Perform repair or diagnosis according to the available Service Information. • If the vehicle is not repaired, go to the next step.
		No	Go to the next step.
3	<b>VERIFY RELATED PENDING CODE AND/OR DTC</b> <ul style="list-style-type: none"> <li>Switch the ignition off, then ON (engine off).</li> <li>Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)</li> <li>Are any other PENDING CODEs and/or DTCs present?</li> </ul>	Yes	Go to the applicable PENDING CODE or DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	Go to the next step.
4	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.1 CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Switch the ignition off.</li> <li>Disconnect the exhaust gas pressure sensor No. 1 connector.</li> <li>Inspect for poor connection (such as damaged/ pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 10.
		No	Go to the next step.
5	<b>INSPECT PCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Disconnect the PCM connector.</li> <li>Inspect for poor connection (such as damaged/ pulled-out pins, corrosion).</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the connector and/or terminals, then go to Step 10.
		No	Go to the next step.
6	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.1 CIRCUIT FOR SHORT TO POWER SUPPLY</b> <ul style="list-style-type: none"> <li>Verify that the exhaust gas pressure sensor No.1 and PCM connectors are disconnected.</li> <li>Switch the ignition ON (engine off).</li> <li>Measure the voltage at the exhaust gas pressure sensor No.1 terminal B (wiring harness-side).</li> <li>Is the voltage 0 V?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible short to power supply, then go to Step 10.
7	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.1 POWER SUPPLY CIRCUIT AND SIGNAL CIRCUIT FOR SHORT TO EACH OTHER</b> <ul style="list-style-type: none"> <li>Verify that the exhaust gas pressure sensor No.1 and PCM connectors are disconnected.</li> <li>Switch the ignition off.</li> <li>Inspect for continuity between exhaust gas pressure sensor No.1 terminals C and B (wiring harness-side).</li> <li>Is there continuity?</li> </ul>	Yes	Repair or replace the wiring harness for a possible short to each other, then go to Step 10.
		No	Go to the next step.
8	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.1 CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>Verify that the exhaust gas pressure sensor No.1 and PCM connectors are disconnected.</li> <li>Inspect for continuity between exhaust gas pressure sensor No.1 terminal A (wiring harness-side) and PCM terminal 1CF (wiring harness-side).</li> <li>Is there continuity?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 10.

STEP	INSPECTION	ACTION	
9	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.1</b> <ul style="list-style-type: none"> <li>• Reconnect all disconnected connectors.</li> <li>• Inspect the exhaust gas pressure sensor No.1. (See EXHAUST GAS PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>• Is there any malfunction?</li> </ul>	Yes	Replace the exhaust gas pressure sensor No.1, then go to the next step. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
10	<b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>• Always reconnect all disconnected connectors.</li> <li>• Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>• Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].)</li> <li>• Is the same DTC present?</li> </ul>	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.
		No	Go to the next step.
11	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>• Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	DTC troubleshooting completed.