

## DTC P2453:00 [SKYACTIV-D 2.2]

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<b>DTC P2453:00</b>	<b>Pressure malfunction in exhaust gas pressure sensor No.2</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>• Difference in pressure is <b>100 kPa {1.02 kgf/cm<sup>2</sup>, 14.5 psi}</b> or more while the engine is running.</li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>• This is a continuous monitor (other).</li> <li>• The check engine light does not illuminate.</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>	Not applicable
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• Diesel particulate filter restriction and/or damaged</li> <li>• Exhaust gas pressure sensor No.2 connector or terminals malfunction</li> <li>• PCM connector or terminals malfunction</li> <li>• Exhaust gas pressure sensor No.2 malfunction</li> <li>• PCM malfunction</li> </ul>
<b>SYSTEM WIRING DIAGRAM</b>	Not applicable

### 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>• Is the PENDING CODE/DTC P242F:00, P2458:00 or P2463:00 also present?</li> </ul>	Yes	Go to the applicable PENDING CODE or DTC inspection. (See DTC P242F:00 [SKYACTIV-D 2.2].) (See DTC P2458:00 [SKYACTIV-D 2.2].) (See DTC P2463:00 [SKYACTIV-D 2.2].)
		No	Go to the next step.
4	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.2 CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the exhaust gas pressure sensor No. 2 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 7.
		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 7.
		No	Go to the next step.
6	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.2</b> <ul style="list-style-type: none"> <li>• Reconnect all disconnected connectors.</li> <li>• Inspect the exhaust gas pressure sensor No.2. (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.2, then go to the next step. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/ INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.

STEP	INSPECTION	ACTION
7	<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 Drive Mode Type A. (See OBD DRIVE MODE [SKYACTIV-D 2.2].)</li> <li>Perform the DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)</li> <li>Is the same DTC present?</li> </ul>	Yes
		Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)</li> </ul> Go to the next step.
8	<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>	No
		Go to the next step.
8	<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].)
8	<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>	No
		DTC troubleshooting completed.