

**DTC P244A:00 [SKYACTIV-D 2.2]**

id0102s4058900

<b>DTC P244A:00</b>	<b>Exhaust gas pressure sensor No.2 range/performance problem</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>When the following conditions are met, a difference in the pressure before and after passing the diesel particulate filter of <b>0.2 kPa {0.002 kgf/cm<sup>2</sup>, 0.03 psi} or less</b> is detected for a continuous <b>10 s</b>:</li> </ul> <b>MONITORING CONDITIONS</b> <ul style="list-style-type: none"> <li>Battery voltage: <b>8—20 V</b></li> <li>Engine speed: <b>825 rpm or more</b></li> <li>Exhaust gas temperature: <b>500 °C {932 °F} or less</b></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>	<ul style="list-style-type: none"> <li>PCM restricts engine torque.</li> <li>Inhibits the EGR control.</li> <li>Inhibits the diesel particulate filter regeneration control.</li> <li>Inhibits engine-stop by operating the i-stop function.</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Erratic signal to PCM <ul style="list-style-type: none"> <li>Exhaust gas pressure sensor No.1 signal malfunction</li> <li>Input signal part connector or terminals malfunction</li> <li>Input signal part related circuit malfunction</li> </ul> </li> <li>Exhaust gas leakage from exhaust system</li> <li>Pipe between exhaust gas pressure sensor No.2 and catalytic converter restriction and/or damaged or improper routing</li> <li>Exhaust gas pressure sensor No.2 malfunction</li> <li>Exhaust gas temperature sensor No.1 malfunction</li> <li>Exhaust gas temperature sensor No.2 malfunction</li> <li>Exhaust gas temperature sensor No.3 malfunction</li> <li>Catalytic converter or diesel particulate filter malfunction (deformation, damage)</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>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>VERIFY CURRENT INPUT SIGNAL STATUS</b> <ul style="list-style-type: none"> <li>Start the engine.</li> <li>Access the following PID using the M-MDS: (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) <ul style="list-style-type: none"> <li>EXHPRES1</li> </ul> </li> <li>Is the PID value within specification? (See PCM INSPECTION [SKYACTIV-D 2.2].)</li> </ul>	Yes Inspect the suspected sensor and related wiring harness. • If there is any malfunction: <ul style="list-style-type: none"> <li>Repair or replace the malfunctioning part according to the inspection results, then go to Step 11.</li> </ul> • If there is no malfunction: <ul style="list-style-type: none"> <li>Go to the next step.</li> </ul>
		No Go to the next step.

STEP	INSPECTION		ACTION
5	<b>INSPECT EXHAUST SYSTEM FOR LEAKAGE</b> <ul style="list-style-type: none"> <li>Visually inspect for exhaust gas leakage from the exhaust system.</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the malfunctioning part according to the inspection results, then go to Step 11.
		No	Go to the next step.
6	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.2 RELATED PIPE</b> <ul style="list-style-type: none"> <li>Visually inspect the exhaust gas pressure sensor No.2 related pipe for restriction, damaged and improper routing. (See EXHAUST GAS PRESSURE SENSOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>Is there any malfunction?</li> </ul>	Yes	Repair or replace the malfunctioning part according to the inspection results, then go to Step 11.
		No	Go to the next step.
7	<b>INSPECT EXHAUST GAS PRESSURE SENSOR NO.2</b> <ul style="list-style-type: none"> <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 Step 11. (See EXHAUST GAS PRESSURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
8	<b>INSPECT EXHAUST GAS TEMPERATURE SENSOR NO.1</b> <ul style="list-style-type: none"> <li>Inspect the exhaust gas temperature sensor No. 1. (See EXHAUST GAS TEMPERATURE SENSOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>Is there any malfunction?</li> </ul>	Yes	Replace the exhaust gas temperature sensor No.1, then go to Step 11. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
9	<b>INSPECT EXHAUST GAS TEMPERATURE SENSOR NO.2</b> <ul style="list-style-type: none"> <li>Inspect the exhaust gas temperature sensor No. 2. (See EXHAUST GAS TEMPERATURE SENSOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>Is there any malfunction?</li> </ul>	Yes	Replace the exhaust gas temperature sensor No.2, then go to Step 11. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Go to the next step.
10	<b>INSPECT EXHAUST GAS TEMPERATURE SENSOR NO.3</b> <ul style="list-style-type: none"> <li>Inspect the exhaust gas temperature sensor No. 3. (See EXHAUST GAS TEMPERATURE SENSOR INSPECTION [SKYACTIV-D 2.2].)</li> <li>Is there any malfunction?</li> </ul>	Yes	Replace the exhaust gas temperature sensor No.3, then go to the next step. (See EXHAUST GAS TEMPERATURE SENSOR REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Catalytic converter or diesel particulate filter can be considered the cause. • Replace the catalytic converter, then go to the next step. (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
11	<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. • 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.
12	<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.