

## DTC P2463:00 [SKYACTIV-D 2.2]

id0102s4154200

<b>DTC P2463:00</b>	<b>Diesel particulate filter excess accumulation (large)</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>• PCM detects that the soot accumulation amount <b>above 13 g/l {0.8 lb/ft<sup>3</sup>}</b> for a continuous <b>125 s</b>.</li> </ul> <b>Diagnostic support note</b> <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>• 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>• Pipe between exhaust gas pressure sensor No.2 and catalytic converter restriction and/or damaged</li> <li>• Diesel particulate filter restriction and/or damaged</li> <li>• PCM malfunction</li> </ul>
<b>SYSTEM WIRING DIAGRAM</b>	Not applicable

### Diagnostic Procedure

STEP	INSPECTION	ACTION
1	<b>IDENTIFY TRIGGER DTC FOR FREEZE FRAME DATA (MODE 2)</b> <ul style="list-style-type: none"> <li>• Perform the Freeze Frame PID Data Access Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)</li> <li>• Is the DTC P2463:00 on FREEZE FRAME DATA (Mode 2)?</li> </ul>	Yes Go to the next step.
		No Go to the troubleshooting procedure for DTC on FREEZE FRAME DATA (Mode 2). (See DTC TABLE [SKYACTIV-D 2.2].)
2	<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.
3	<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.
4	<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 and damaged. (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 7.
		No Go to the next step.

STEP	INSPECTION		ACTION
5	<b>VERIFY DIESEL PARTICULATE FILTER SOOT ACCUMULATION</b> <ul style="list-style-type: none"> <li>Access the PM_ACC PID using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)</li> <li>Is the PM_ACC PID value <b>13 g/l {0.8 lb/ft<sup>3</sup>}</b> or more?</li> </ul>	Yes	Replace the catalytic converter, then go to Step 7. (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No	Perform the "FUEL INJECTOR INJECTION AMOUNT CORRECTION" then perform the "COMPULSORY DIESEL PARTICULATE FILTER REGENERATION". (See FUEL INJECTOR INJECTION AMOUNT CORRECTION [SKYACTIV-D 2.2].) (See COMPULSORY DIESEL PARTICULATE FILTER REGENERATION [SKYACTIV-D 2.2].) Go to the next step.  <b>Note</b> <ul style="list-style-type: none"> <li>If any of the below DTCs are stored in the PCM, the "COMPULSORY DIESEL PARTICULATE FILTER REGENERATION" will be blocked by the PCM. Carry out the appropriate DTCs inspection procedure first. Then, perform the "COMPULSORY DIESEL PARTICULATE FILTER REGENERATION" again.               <ul style="list-style-type: none"> <li>DTCs P0093:00, P0097:00, P0098:00, P0101:00, P0102:00, P0103:00, P0106:00, P0107:00, P0108:00, P0112:00, P0113:00, P0117:00, P0118:00, P0131:00, P0132:00, P0154:00, P0191:00, P0192:00, P0193:00, P0201:00, P0202:00, P0203:00, P0204:00, P0299:00, P0301:00, P0302:00, P0303:00, P0304:00, P0313:00, P0337:00, P0406:00, P0500:00, P0545:00, P0546:00, P0605:00, P0606:00, P062A:00, P115A:00, P1378:00, P1379:00, P1675:00, P1676:00, P2002:00, P2032:00, P2033:00, P2146:00, P2147:00, P2148:00, P2149:00, P2150:00, P2151:00, P2228:00, P2229:00, P242C:00, P242D:00, P242F:00*, P2454:00, P2455:00, P2456:00, P2463:00*, P253F:00, P2621:00, P2622:00</li> <li>*: For DTCs P242F:00 and P2463:00, the "COMPULSORY DIESEL PARTICULATE FILTER REGENERATION" will only be blocked if an excessive amount of soot is in the diesel particulate filter.</li> </ul> </li> </ul>
6	<b>VERIFY DTCs</b> <ul style="list-style-type: none"> <li>Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>Start the engine and warm it up completely.</li> </ul> <b>Caution</b> <ul style="list-style-type: none"> <li>While performing this step, always operate the vehicle in a safe and lawful manner.</li> <li>When the M-MDS is used to observe monitor system status while driving, be sure to have another technician with you, or record the data in the M-MDS using the PID/DATA MONITOR AND RECORD capturing function and inspect later.</li> <li>Drive the vehicle under the FREEZE FRAME DATA (Mode 2)/snapshot data condition.</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	Diesel particulate filter restriction and/or damaged can be considered the cause. <ul style="list-style-type: none"> <li>Replace the catalytic converter, then go to the next step. (See EXHAUST SYSTEM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)</li> </ul>
		No	Go to Step 8.

STEP	INSPECTION	ACTION	
7	<b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>• Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>• Start the engine and warm it up completely.</li> </ul> <b>Caution</b> <ul style="list-style-type: none"> <li>• While performing this step, always operate the vehicle in a safe and lawful manner.</li> <li>• When the M-MDS is used to observe monitor system status while driving, be sure to have another technician with you, or record the data in the M-MDS using the PID/DATA MONITOR AND RECORD capturing function and inspect later.</li> </ul> <ul style="list-style-type: none"> <li>• Drive the vehicle under the FREEZE FRAME DATA (Mode 2)/snapshot data condition.</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.
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].)
		No	DTC troubleshooting completed.