

**DTC P0606:00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5]**

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<b>DTC P0606:00</b>	<b>PCM processor error</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>• PCM internal CPU malfunction.</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>• Restricts the upper limit of the engine speed.</li> <li>• Stops drive-by-wire control (throttle valve is open at <b>approx. 8 °</b> by return spring force)</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• PCM connector or terminals malfunction</li> <li>• PCM malfunction <ul style="list-style-type: none"> <li>— PCM internal CPU malfunction</li> </ul> </li> </ul>
<b>SYSTEM WIRING DIAGRAM</b>	Not applicable

**Diagnostic Procedure**

<b>STEP</b>	<b>INSPECTION</b>	<b>ACTION</b>
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>INSPECT PCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <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 the next step.
		No Go to the next step.
4	<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-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Start the engine.</li> <li>• Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Is the same DTC present?</li> </ul>	Yes Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No Go to the next step.
5	<b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li> <li>• Are any DTCs present?</li> </ul>	Yes Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
		No DTC troubleshooting completed.