

**DTC P0610:00 [SKYACTIV-G 2.0, SKYACTIV-G 2.5]**

id0102h4706000

<b>DTC P0610:00</b>	<b>PCM vehicle configuration error</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"><li>• PCM data configuration error.</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>	Not applicable
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"><li>• Configuration procedure has not been completed</li><li>• PCM connector or terminals malfunction</li><li>• PCM malfunction</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. <ul style="list-style-type: none"><li>• If the vehicle is not repaired, go to the next step.</li></ul>
		No Go to the next step.
3	<b>PERFORM PCM CONFIGURATION</b> <ul style="list-style-type: none"><li>• Perform the PCM configuration (using read/write function). (See PCM CONFIGURATION (USING READ/ WRITE FUNCTION) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</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 Go to the next step.
		No Go to Step 6.
4	<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 Perform the PCM configuration (using read/write function) again. (See PCM CONFIGURATION (USING READ/WRITE FUNCTION) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].) <ul style="list-style-type: none"><li>• If the malfunction recurs, perform the PCM configuration (using as-built data). (See PCM CONFIGURATION (USING AS-BUILT DATA) [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)</li></ul> Go to the next step.

STEP	INSPECTION	ACTION	
5	<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.
6	<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.