

**DTC P0602:00 [SKYACTIV-D 2.2]**

id0102s4705700

|                                      |  |
|--------------------------------------|--|
| <b>DTC<br/>P0602:00</b>              | <b>PCM programming error</b>   |
| <b>DETECTION<br/>CONDITION</b>       | <ul style="list-style-type: none"><li>• No configuration data in the PCM.</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<br/>FUNCTION</b>        | <ul style="list-style-type: none"><li>• Inhibits engine-stop by operating the i-stop function.</li></ul>   |
| <b>POSSIBLE<br/>CAUSE</b>            | <ul style="list-style-type: none"><li>• Configuration has not been completed</li><li>• PCM connector or terminals malfunction</li><li>• PCM malfunction</li></ul>  |
| <b>SYSTEM<br/>WIRING<br/>DIAGRAM</b> | Not applicable   |

**Diagnostic Procedure**

| <b>STEP</b> | <b>INSPECTION</b>   | <b>ACTION</b>  |
|-------------|---|--|
| 1           | <b>VERIFY FREEZE FRAME DATA (MODE 2)/<br/>SNAPSHOT DATA HAS BEEN RECORDED</b> <ul style="list-style-type: none"><li>• Has the FREEZE FRAME DATA (Mode 2)/<br/>snapshot data been recorded?</li></ul>  | Yes<br>Go to the next step.  |
|             |   | No<br>Record the FREEZE FRAME DATA (Mode 2)/snapshot data<br>on the repair order, then go to the next step.  |
| 2           | <b>VERIFY RELATED SERVICE INFORMATION<br/>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<br>Perform repair or diagnosis according to the available<br>Service Information. <ul style="list-style-type: none"><li>• If the vehicle is not repaired, go to the next step.</li></ul>   |
|             |   | No<br>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<br/>function).<br/>(See PCM CONFIGURATION (USING READ/<br/>WRITE FUNCTION) [SKYACTIV-D 2.2].)</li><li>• Clear the DTC from the PCM memory using the<br/>M-MDS.<br/>(See AFTER REPAIR PROCEDURE<br/>[SKYACTIV-D 2.2].)</li><li>• Perform the DTC Reading Procedure.<br/>(See ON-BOARD DIAGNOSTIC TEST<br/>[SKYACTIV-D 2.2].)</li><li>• Is the same DTC present?</li></ul> | Yes<br>Go to the next step.  |
|             |   | No<br>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/<br/>pulled-out pins, corrosion).</li><li>• Is there any malfunction?</li></ul>  | Yes<br>Repair or replace the connector and/or terminals, then go to<br>the next step.  |
|             |   | No<br>Perform the PCM configuration (using read/write function)<br>again.<br>(See PCM CONFIGURATION (USING READ/WRITE<br>FUNCTION) [SKYACTIV-D 2.2].) <ul style="list-style-type: none"><li>• If the malfunction recurs, perform the PCM configuration<br/>(using as-built data).<br/>(See PCM CONFIGURATION (USING AS-BUILT DATA)<br/>[SKYACTIV-D 2.2].)</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.<br/>(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>• Perform the DTC Reading Procedure.<br/>(See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].)</li> <li>• Is the same DTC present?</li> </ul> | Yes<br>Replace the PCM, then go to the next step.<br>(See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) |
|      |   | No<br>Go to the next step.  |
| 6    | <b>VERIFY AFTER REPAIR PROCEDURE</b> <ul style="list-style-type: none"> <li>• Perform the “AFTER REPAIR PROCEDURE”.<br/>(See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].)</li> <li>• Are any DTCs present?</li> </ul>  | Yes<br>Go to the applicable DTC inspection.<br>(See DTC TABLE [SKYACTIV-D 2.2].)                      |
|      |   | No<br>DTC troubleshooting completed.  |