

**DTC P0668:00 [SKYACTIV-D 2.2]**

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<b>DTC P0668:00</b>	<b>PCM internal temperature sensor circuit low input</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"><li>• PCM internal temperature sensor 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>• Inhibits engine-stop by operating the i-stop function.</li><li>• PCM restricts engine-transaxle integration control.</li></ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"><li>• PCM malfunction<ul style="list-style-type: none"><li>— PCM internal temperature sensor 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. <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>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 Replace the PCM, then go to the next step. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
		No Go to the next step.
4	<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.