

# DTC P07BE:00 [SKYACTIV-G 2.0]

id0102h1950300

<b>DTC P07BE:00</b>	<b>Transmission indeterminate failure (failed to neutral)</b>
<b>DETECTION CONDITION</b>	<ul style="list-style-type: none"> <li>Correlation malfunction between neutral switches No.1 and No.2.</li> </ul> <b>Diagnostic support note</b> <ul style="list-style-type: none"> <li>This is a continuous monitor (other).</li> <li>The check engine light does not illuminate.</li> <li>FREEZE FRAME DATA (Mode 2)/Snapshot data is not available.</li> <li>The DTC is stored in the PCM memory.</li> </ul>
<b>FAIL-SAFE FUNCTION</b>	—
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Neutral switch No.2 connector or terminals malfunction</li> <li>Neutral switch No.2 malfunction</li> <li>Open circuit in wiring harness between neutral switch No.2 terminal C and body ground</li> <li>Short to ground in wiring harness between neutral switch No.2 terminal B and PCM terminal 1G</li> <li>PCM connector or terminals malfunction</li> <li>Open circuit in wiring harness between neutral switch No.2 terminal B and PCM terminal 1G</li> <li>PCM malfunction</li> </ul>

## Diagnostic Procedure

STEP	INSPECTION	ACTION
1	<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.
2	<b>VERIFY RELATED PENDING CODE AND/OR DTC</b> <ul style="list-style-type: none"> <li>Switch the ignition to off, then to ON (engine off).</li> <li>Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-G 2.0].)</li> <li>Is the PENDING CODE/DTC P0850:00 also present?</li> </ul>	Yes Go to the applicable PENDING CODE or DTC inspection. (See DTC P0850:00 [SKYACTIV-G 2.0].)
		No Go to the next step.

STEP	INSPECTION		ACTION
3	<b>INSPECT NEUTRAL SWITCH NO.2 CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <li>Switch the ignition to off.</li> <li>Disconnect the neutral switch No.2 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 Step 9.
		No	Go to the next step.
4	<b>INSPECT NEUTRAL SWITCH NO.2</b> <ul style="list-style-type: none"> <li>Inspect the neutral switch No.2. (See NEUTRAL SWITCH INSPECTION [SKYACTIV-G 2.0].)</li> <li>Is there any malfunction?</li> </ul>	Yes	Replace the neutral switch No.2, then go to Step 9. (See NEUTRAL SWITCH REMOVAL/INSTALLATION [C66M-R, C66MX-R].)
		No	Go to the next step.
5	<b>INSPECT NEUTRAL SWITCH NO.2 GROUND CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>Verify that the neutral switch No.2 connector is disconnected.</li> <li>Inspect for continuity between neutral switch No. 2 terminal C (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 9.
6	<b>INSPECT NEUTRAL SWITCH NO.2 SIGNAL CIRCUIT FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Verify that the neutral switch No.2 connector is disconnected.</li> <li>Inspect for continuity between neutral switch No. 2 terminal B (wiring harness-side) and body ground.</li> <li>Is there continuity?</li> </ul>	Yes	If the short to ground circuit could be detected in the wiring harness: <ul style="list-style-type: none"> <li>Repair or replace the wiring harness for a possible short to ground.</li> </ul> If the short to ground circuit could not be detected in the wiring harness: <ul style="list-style-type: none"> <li>Replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)</li> </ul> Go to Step 9.
		No	Go to the next step.
7	<b>INSPECT PCM CONNECTOR CONDITION</b> <ul style="list-style-type: none"> <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 Step 9.
		No	Go to the next step.
8	<b>INSPECT NEUTRAL SWITCH NO.2 SIGNAL CIRCUIT FOR OPEN CIRCUIT</b> <ul style="list-style-type: none"> <li>Verify that the neutral switch No.2 and PCM connectors are disconnected.</li> <li>Inspect for continuity between neutral switch No. 2 terminal B (wiring harness-side) and PCM terminal 1G (wiring harness-side).</li> <li>Is there continuity?</li> </ul>	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to the next step.
9	<b>VERIFY DTC TROUBLESHOOTING COMPLETED</b> <ul style="list-style-type: none"> <li>Make sure to 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].)</li> <li>Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-G 2.0].)</li> <li>Is the same DTC present?</li> </ul>	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> <li>If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0].)</li> </ul> Go to the next step.
		No	Go to the next step.
10	<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].)</li> <li>Are any DTCs present?</li> </ul>	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0].)
		No	DTC troubleshooting completed.