

DTC P07BE:00 [SKYACTIV-D 2.2]

id0102s4950300

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

NEUTRAL SWITCH NO.2 WIRING HARNESS-SIDE CONNECTOR

PCM WIRING HARNESS-SIDE CONNECTOR

Diagnostic Procedure

STEP	INSPECTION	ACTION
1	VERIFY RELATED SERVICE INFORMATION AVAILABILITY <ul style="list-style-type: none"> Verify related Service Information availability. Is any related Service Information available? 	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	VERIFY RELATED PENDING CODE AND/OR DTC <ul style="list-style-type: none"> Switch the ignition off, then ON (engine off). Perform the Pending Trouble Code Access Procedure and DTC Reading Procedure. (See ON-BOARD DIAGNOSTIC TEST [SKYACTIV-D 2.2].) Is the PENDING CODE/DTC P0850:00 also present? 	Yes Go to the applicable PENDING CODE or DTC inspection. (See DTC P0850:00 [SKYACTIV-D 2.2].)
		No Go to the next step.

STEP	INSPECTION		ACTION
3	INSPECT NEUTRAL SWITCH NO.2 CONNECTOR CONDITION <ul style="list-style-type: none"> Switch the ignition off. Disconnect the neutral switch No.2 connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
		No	Go to the next step.
4	INSPECT NEUTRAL SWITCH NO.2 <ul style="list-style-type: none"> Inspect the neutral switch No.2. (See NEUTRAL SWITCH INSPECTION [SKYACTIV-D 2.2].) Is there any malfunction? 	Yes	Replace the back-up light switch, then go to Step 9. (See BACK-UP LIGHT SWITCH REMOVAL/INSTALLATION [D66M-R, D66MX-R].)
		No	Go to the next step.
5	INSPECT NEUTRAL SWITCH NO.2 GROUND CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> Verify that the neutral switch No.2 connector is disconnected. Inspect for continuity between neutral switch No. 2 terminal C (wiring harness-side) and body ground. Is there continuity? 	Yes	Go to the next step.
		No	Repair or replace the wiring harness for a possible open circuit, then go to Step 9.
6	INSPECT NEUTRAL SWITCH NO.2 SIGNAL CIRCUIT FOR SHORT TO GROUND <ul style="list-style-type: none"> Verify that the neutral switch No.2 connector is disconnected. Inspect for continuity between neutral switch No. 2 terminal B (wiring harness-side) and body ground. Is there continuity? 	Yes	If the short to ground circuit could be detected in the wiring harness: <ul style="list-style-type: none"> Repair or replace the wiring harness for a possible short to ground. If the short to ground circuit could not be detected in the wiring harness: <ul style="list-style-type: none"> Replace the PCM (short to ground in the PCM internal circuit). (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to Step 9.
		No	Go to the next step.
7	INSPECT PCM CONNECTOR CONDITION <ul style="list-style-type: none"> Disconnect the PCM connector. Inspect for poor connection (such as damaged/pulled-out pins, corrosion). Is there any malfunction? 	Yes	Repair or replace the connector and/or terminals, then go to Step 9.
		No	Go to the next step.
8	INSPECT NEUTRAL SWITCH NO.2 SIGNAL CIRCUIT FOR OPEN CIRCUIT <ul style="list-style-type: none"> Verify that the neutral switch No.2 and PCM connectors are disconnected. Inspect for continuity between neutral switch No. 2 terminal B (wiring harness-side) and PCM terminal 1EJ (wiring harness-side). Is there continuity? 	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	VERIFY DTC TROUBLESHOOTING COMPLETED <ul style="list-style-type: none"> Always reconnect all disconnected connectors. Clear the DTC from the PCM memory using the M-MDS. (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) Perform the KOEO or KOER self test. (See KOEO/KOER SELF TEST [SKYACTIV-D 2.2].) Is the same DTC present? 	Yes	Repeat the inspection from Step 1. <ul style="list-style-type: none"> If the malfunction recurs, replace the PCM. (See PCM REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) Go to the next step.
		No	Go to the next step.
10	VERIFY AFTER REPAIR PROCEDURE <ul style="list-style-type: none"> Perform the "AFTER REPAIR PROCEDURE". (See AFTER REPAIR PROCEDURE [SKYACTIV-D 2.2].) Are any DTCs present? 	Yes	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-D 2.2].)
		No	DTC troubleshooting completed.