

C0550 The electronic brake control module (EBCM) detects an internal malfunction or loss of ground.

Circuit Description

The electronic brake control module (EBCM) detects an internal malfunction or loss of ground.

Conditions for Running the DTC

The ignition switch is in the ON position.

Conditions for Setting the DTC

- An internal EBCM malfunction exists.
- System voltage is less than half the ignition voltage continuously for 0.04 seconds.

Action Taken When the DTC Sets

If equipped, the following actions occur:

- The ABS/ACC/DRP/EDC/VC/TPM/VES/VSES are disabled.
- TCS is degraded.
- The ABS/TCS indicators turn on.
- The Red BRAKE Warning indicator turn on.

The DIC displays the following:

- Service ABS
- Service Traction System
- Service Stabilitrak
- Service Radar Cruise

Conditions for Clearing the DTC

- The condition for the DTC is no longer present and the DTC is cleared with a

scan tool.

- The EBCM automatically clears the history DTC when a current DTC is not detected in 100 consecutive drive cycles.

Diagnostic Aids

Possible causes of this DTC:

- Open ground at the EBCM
- Internal malfunction in the EBCM

Test Description

The numbers below refer to the step numbers on the diagnostic table.

2. Tests for a proper ground to the EBCM.

Step	Action	Yes	No
Schematic Reference: ABS Schematics			
1	Did you perform the Diagnostic System Check – ABS?	Go to Step 2	Go to Diagnostic System Check -ABS
2	1. Disconnect the EBCM harness connector. 2. Install the J 39700 universal pinout box using the J 39700-300 cable adapter to the EBCM harness connector only. 3. Test both of the ground circuits of the EBCM for a high resistance or an open. Refer to Circuit Testing and Wiring Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 5	Go to Step 3
3	Inspect for poor connections at the harness connector of the EBCM. Refer to Testing for Intermittent and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	Go to Step 5	Go to Step 4

Step	Action	Yes	No
4	Replace the EBCM. Refer to Electronic Brake Control Module (EBCM) Replacement. Is the replacement complete?	Go to Step 5	—
5	1. Use the scan tool to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	Go to Step 2	System OK

LAUNCH