

P1575 the EBCM will provide a 5 volt output via the extended brake travel circuit to the ECM

Circuit Description

The EBCM uses the BPP Sensor to determine if an extended brake travel event has occurred. If an extended brake travel condition exists, the EBCM will provide a 5 volt output via the extended brake travel circuit to the ECM.

Conditions for Running the DTC

- The ignition is ON.
- Ignition voltage is greater than 8 volts.

Conditions for Setting the DTC

One of the following conditions exist:

- The extended brake travel voltage is less than 0.8 volts when extended brake travel is ON.
- The extended brake travel voltage is greater than 2.0 volts when extended brake travel is OFF.

Action Taken When the DTC Sets

All systems remain functional.

Conditions for Clearing the DTC

- The condition for the DTC is no longer present and the DTC is cleared with a scan tool.
- The electronic brake control module (EBCM) automatically clears the history DTC when a current DTC is not detected in 100 consecutive drive cycles.

Diagnostic Aids

One of the following may cause this concern:

- An open in the extended brake travel circuit.
- A short to ground or voltage in the extended brake travel circuit.

Test Description

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

3. Measure the extended brake travel circuit in order to determine if the extended brake travel signal has a valid voltage.
4. Measure the extended brake travel signal in order to determine if the EBCM is functioning properly.
8. This vehicle is equipped with a ECM which uses an electrically erasable programmable read only memory (EEPROM). When replacing the ECM, the replacement ECM must be programmed.

DTC P1575

Step	Action	Values	Yes	No
Schematic Reference: ABS Schematics Connector End View Reference: ABS Connector End Views, Engine Control Module (ECM) Connector End Views in Engine Controls – 3.6L, or Engine Control Module (ECM) Connector End Views in Engine Controls – 4.6L				
1	Did you perform the Diagnostic System Check – ABS?	—	Go to Step 2	Go to Diagnostic System Check -ABS
2	Test the extended brake travel circuit of the EBCM for the following conditions: <ul style="list-style-type: none"> • An open • A short to ground • A short to battery Refer to Circuit Testing on page 8-1184 and Wiring Repairs on page 8-1189 in Wiring Systems. Did you find and correct the condition?	—	Go to Step 9	Go to Step 3

Step	Action	Values	Yes	No
3	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Disconnect the EBCM harness connector. 3. Install the J 39700 Universal Pinout Box using the J 39700-300 Cable Adapter to the EBCM harness connector and the EBCM connector. 4. Turn ON the ignition, with the engine OFF. 5. With the brake pedal released, measure the voltage between the extended brake travel circuit and a good ground. <p>Is the voltage greater than the specified value?</p>	2V	Go to Step 5	Go to Step 4
4	<ol style="list-style-type: none"> 1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With the scan tool, observe the BPP Sensor Displacement parameter in the BPP System Data data list while applying pressure to the brake pedal. 4. With the BPP Sensor Displacement parameter reading 50 percent, measure the voltage between the extended brake travel circuit and a good ground. <p>Is the voltage of the extended brake travel signal greater than the specified value?</p>	0.8 V	Go to Step 6	Go to Step 5
5	<p>Inspect for poor connections 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?</p>	—	Go to Step 9	Go to Step 7

Step	Action	Values	Yes	No
6	Inspect for poor connections the harness connector of the ECM. Refer to Testing for Intermittent and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	—	Go to Step 9	Go to Step 8
7	Important: Perform the setup procedure for the EBCM. An unprogrammed EBCM will result in the following conditions: <ul style="list-style-type: none"> • Inoperative or poorly functioning system operations • The EBCM sets DTC C0281 and DTC C0550 Replace the EBCM. Refer to Electronic Brake Control Module (EBCM) Replacement. Did you complete the repair? 	—	Go to Step 9	—
8	Important: The replacement ECM must be programmed. Replace the ECM. Refer to Engine Control Module (ECM) Replacement in Engine Controls -3.6L or Engine Control Module (ECM) Replacement in Engine Controls -4.6L. Did you complete the repair?	—	Go to Step 9	—
9	1. Use the scan tool in order 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