DTC C1265 Rear ABS Motor Circuit Shorted to Ground

Circuit Description

DTC C1265 identifies an ABS motor circuit that shorts to ground. The malfunction will cause one of the following conditions to occur:

- The ABS motor will not be controlled at the commanded current rate.
- The driver circuit will allow current directly to the ground.

Conditions for Setting the DTC

DTC C1265 can set anytime.

A malfunction exists if The EBCM detects an out of range voltage on either of the rear ABS motor circuits.

An out of range voltage on either circuit indicates one of the following conditions:

- A circuit shorts to ground.
- An ABS brake motor is shorts internally.

Action Taken When the DTC Sets

- A malfunction DTC stores.
- The ABS disables.
- The ABS warning indicator turns ON.
- The red BRAKE warning indicator turns ON and DTC C1286 also sets if the rear piston in the ABS brake modulator is not in the home position.
Conditions for Clearing the DTC

- The condition responsible for setting the DTC no longer exists and the Scan Tool Clear DTCs function is used.
- 100 drive cycles pass with no DTCs detected. A drive cycle consists of starting the vehicle, driving the vehicle over 16 km/h (10 mph), stopping and then turning the ignition OFF.

Diagnostic Aids

Use the Scan Tool Manual Control function in order to exercise ABS motor movement of affected channel in both directions while applying light pressure on the brake pedal.

An intermittent malfunction may be indicated if erratic or jumpy brake pedal movement is detected while performing an apply or release function of the ABS monitor.

If the malfunction is not current, use the following procedure to pinpoint an intermittent malfunction in the motor circuitry or connections:

1. Wiggle the wires of the affected channel.
2. Inspect if the DTC resets.

Use the enhanced diagnostic function of the Scan Tool in order to measure the frequency of the malfunction.

Clear the DTCs after completing the diagnosis. Test drive the vehicle for three drive cycles in order to verify that the DTC does not reset. Use the following procedure in order to complete one drive cycle:

1. Start the vehicle.
2. Drive the vehicle over 16 km/h (10 mph).
3. Stop the vehicle.
4. Turn the ignition switch to the OFF position.

Test Description

3. This test checks for a short to ground in the motor high circuit.
4. This test checks for a short to ground in the motor low circuit.
7. This test determines if the malfunction is caused by the EBCM.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Value(s)</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Was the ABS Diagnostic System Check performed?</td>
<td>--</td>
<td></td>
<td>Go to Diagnostic System Check - ABS</td>
</tr>
<tr>
<td>2</td>
<td>Does DTC C1265 occur intermittently?</td>
<td>--</td>
<td></td>
<td>Go to Diagnostic Aids</td>
</tr>
<tr>
<td></td>
<td>1. Turn the ignition switch to the OFF position.</td>
<td></td>
<td>1.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Disconnect the ABS brake motor pack connector.</td>
<td></td>
<td>2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Disconnect the EBCM connector</td>
<td></td>
<td>3.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. Use the J 39200 in order to measure the resistance between the ABS brake motor pack harness connector terminal C and ground.</td>
<td>OL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Zero the J 39200 test leads before making any resistance measurements. Refer to the J 39200 user's manual.
<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Result</th>
<th>Go to Step</th>
<th>Go to Step</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Use J 39200 in order to measure the resistance between the ABS brake motor pack harness connector terminal D and ground.</td>
<td>OL (Infinite)</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>Use the J 39200 in order to measure the resistance between the ABS brake motor pack connector terminal C and ground.</td>
<td>OL (Infinite)</td>
<td>6</td>
<td>8</td>
</tr>
</tbody>
</table>
| 6    | 1. Inspect the following components for damage:  
   o The ABS brake motor pack connector  
   o The ABS brake motor pack harness connector  
   Damage that may cause a short to ground with the connector connected.  
   2. Inspect the following components for damage:  
   o The EBCM connector  
   o The EBCM harness connector  
   Damage that may cause a short to ground with the connector connected.  
   3. Inspect the following circuits for damage:  
   o CKT 1284  
   o CKT 1285  
   Damage may cause a short to ground. | | 11 | 7 |
| 7    | 1. Reconnect the ABS brake motor pack connector.  
   2. Reconnect the EBCM connector.  
   3. Test drive the vehicle obtaining a speed at least 16 km/h (10 mph).  
   4. Turn the ignition switch to the OFF position.  
   5. Repeat the drive sequence two additional times.  
   6. Use the Scan Tool in order to inspect for DTCs. | Did DTC C1265 set as a current DTC during the last three drive cycles? | 12 | 13 |
| 8    | Replace the ABS brake motor pack. Refer to ABS Motor Pack Replacement. | | | |
| 9    | Repair the short to ground in CKT 1284. Refer to Wiring Repairs in Wiring Systems. | | | |
| 10   | Repair the short to ground in CKT 1285. Refer to Wiring Repairs in Wiring Systems. | | | |
|      | Replace all of the following components that exhibit signs of damage:  
   - The terminals | | | |
|   | 11 | The connectors  
|   |    | The wires Damage may cause a short to ground.  
|   |   | Is the repair complete? | -- | Go to Diagnostic System Check - ABS | -- |
|   | 12 | Replace the EBCM. Refer to Electronic Brake Control Module (EBCM) Replacement.  
|   |   | Is the repair complete? | -- | Go to Diagnostic System Check - ABS | -- |
|   | 13 | The malfunction is intermittent or is not present at this time. Refer to Diagnostic Aids for more information.  
|   |   | Is the action complete? | -- | System OK | -- |