

# C1100 Base Brake System Pressure Circuit

## Diagnostic Instructions

- Perform the Diagnostic System Check – Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

## DTC Descriptor

DTC C1100 00: Base Brake System Pressure Circuit

## Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
5-Volt Reference	C1100 00	C1100 00	C1100 00	—
Signal	C1100 00	C1100 00	C1100 00	—
Low Reference	—	C1100 00	—	—

## Circuit/System Description

The electronic brake control module (EBCM) provides a 5-volt reference to the brake booster vacuum sensor. The brake booster vacuum sensor converts the change in vacuum levels in the brake booster into a signal voltage ranging from 0.13–3.30 volts and is monitored by EBCM.

## Conditions for Running the DTC

Ignition ON.

## Conditions for Setting the DTC

The brake booster sensor signal voltage is not within 0.13–3.30 volts for more

than 1 second.

## Conditions for Clearing the DTC

- The condition for the DTC is no longer present.
- The EBCM clears the history DTC when a current DTC is not detected in 100 consecutive drive cycles.

## Reference Information

### Schematic Reference

Antilock Brake System Schematics

### Connector End View Reference

Component Connector End Views

### Description and Operation

ABS Description and Operation

### Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

### Scan Tool Reference

Control Module References for scan tool information

## Circuit/System Testing

- 1). Ignition OFF, disconnect the harness connector at the brake booster vacuum sensor.
- 2). Ignition OFF for 60 seconds, test for less than 11 ohms between the low reference circuit terminal 2 and ground. If greater than the specified range, test the low reference circuit for an open/high resistance. If the circuit tests normal, replace the EBCM.

- 3). Ignition ON, test for 4.8–5.2 volts between the 5-volt reference circuit terminal 3 and ground. If less than the specified range, test the 5-volt reference circuit for an open/high resistance. If the circuit tests normal, replace the EBCM. If greater than the specified range, test the 5-volt reference circuit for a short to B+. If the circuit tests normal, replace the EBCM.
- 4). Ignition ON, test for 4.8–5.2 volts between the 5-volt reference circuit terminal 3 and the signal circuit terminal 1. If less than the specified range, test the signal circuit for an open/high resistance. If the circuit tests normal, replace the EBCM. If greater than the specified range, test the signal circuit for a short to B+. If the circuit tests normal, replace the EBCM.
- 5). Ignition OFF, disconnect the harness connector at the EBCM.
- 6). Ignition OFF, test for infinite resistance between the signal circuit terminal 1 and ground. If not the specified value, test the signal circuit for a short to ground.
- 7). If all circuits test normal, test or replace the brake booster vacuum sensor.

## Repair Instructions

Perform the Diagnostic Repair Verification after completing the diagnostic procedure.

- Power Brake Booster Vacuum Sensor Replacement
- Control Module References for EBCM replacement, setup, and programming