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1998 CHEVROLET S-10 Extended Cab OEM Service and Repair Workshop Manual

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YOUR CURRENT VEHICLE

DTC C025E

DTC C025E

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 Descriptors

DTC C025E	Brake Booster Vacuum Sensor Circuit

For symptom byte information refer to Symptom Byte List.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
5 V Reference	C025E 03	C025E 00	C025E 00	—
Signal	C025E 00	C025E 00	C025E 00	C025E 5A
Low Reference	—	C025E 00	—	—

Circuit/System Description

Brake Assist System 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 and all vehicle systems OFF, disconnect the harness connector at the B19B Brake Booster Vacuum Sensor. It may take up to 2 min for all vehicle systems to power down.
2. Test for less than 10 Ω between the low reference circuit terminal 2 and ground.
    - **If 10 Ω or greater**
        1. Disconnect the harness connector at the K17 Electronic Brake Control Module.
        2. Test for less than 2 Ω in the low reference circuit end to end.
            - If 2 Ω or greater, repair the open/high resistance in the circuit.
            - If less than 2 Ω, replace the K17 Electronic Brake Control Module.
    - **If less than 10 Ω**
3. Ignition ON.
4. Test for 4.8–5.2 V between the 5 V reference circuit terminal 3 and ground.
    - **If less than 4.8 V**
        1. Ignition OFF, disconnect the harness connector at the K17 Electronic Brake Control Module.
        2. Test for infinite resistance between the 5 V reference circuit and ground.
            - If less than infinite resistance, repair the short to ground on the circuit.
            - If infinite resistance
        3. Test for less than 2 Ω in the 5 V reference circuit end to end.
            - If 2 Ω or greater, repair the open/high resistance in the circuit.

- **If the DTC does not set**

12. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Power Vacuum Brake Booster Replacementfor power brake booster vacuum sensor replacement
- Control Module References for electronic brake control module replacement, programming and setup

Conditions for Running the DTC

Ignition ON.

Conditions for Setting the DTC

- Low brake fluid level is detected for 5 s.
- An open is detected on the ground circuit.
- An open, short to ground, or short to voltage is detected on the signal circuit.

Action Taken When the DTC Sets

- The electronic brake control module disables the traction control and stability control for the duration of the ignition cycle.
- The traction control/stability control-active indicator turns ON.
- The brake warning indicator turns ON.

Conditions for Clearing the DTC

The condition for setting the DTC is no longer present.

Reference Information

Schematic Reference

Hydraulic Brake Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Hydraulic Brake System Description and Operation

Electrical Information Reference

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