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2007 CHEVROLET Epica OEM Service and Repair Workshop Manual

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YOUR CURRENT VEHICLE

DTC B067F or B0680

DTC B067F or B0680

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 B067F 02	Passenger Air Bag On Indicator Circuit Short to Ground
DTC B067F 05	Passenger Air Bag On Indicator Circuit High Voltage/Open
DTC B0680 02	Passenger Air Bag Off Indicator Circuit Short to Ground
DTC B0680 05	Passenger Air Bag Off Indicator Circuit High Voltage/Open

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Passenger Air Bag OFF Indicator Control	B0680 02	B0680 05	B0680 05	—
Passenger Air Bag ON Indicator Control	B067F 02	B067F 05	B067F 05	—

Component Connector End Views

Description and Operation

Supplemental Inflatable Restraint 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 Verification

1. Ignition ON.
2. Verify no other K36 Inflatable Restraint Sensing and Diagnostic Module DTCs are set.
    - **If other K36 Inflatable Restraint Sensing and Diagnostic Module DTCs are set**

      Diagnose those DTCs first. Refer to Diagnostic Trouble Code (DTC) List - Vehicle
    - **If no other K36 Inflatable Restraint Sensing and Diagnostic Module DTCs are set**
3. Verify the passenger air bag ON indicator and passenger air bag OFF indicators turn ON and OFF when commanded ON and OFF with a scan tool.
    - **If the passenger air bag indicators do not change**

      Refer to Circuit/System Testing
    - **If the passenger air bag indicators change**
4. All OK.

Circuit/System Testing

NOTE

Note

When removing connectors inspect for damage or corrosion. Damage or corrosion in the following requires repair or replacement of the affected.

        - If less than 2 Ω, replace the K36 Inflatable Restraint Sensing and Diagnostic Module.
    - **If the test lamp illuminates**

7. Command the Passenger Air Bag On Indicator OFF with a scan tool.
8. Verify a test lamp does not illuminate between the control circuit terminal 6 and ground.
    - **If the test lamp illuminates**

    1. Ignition OFF, disconnect the X1 harness connector at the K36 Inflatable Restraint Sensing and Diagnostic Module. Ignition ON.
    2. Test for less than 1 V between the control circuit and ground.
        - If 1 V or greater, repair the short to voltage on the circuit.
        - If less than 1 V, replace the K36 Inflatable Restraint Sensing and Diagnostic Module.

    - **If the test lamp does not illuminate**

9. Command the Passenger Air Bag On Indicator ON with a scan tool.
10. Verify a test lamp illuminates between the control circuit terminal 6 and ground.
    - **If the test lamp does not illuminate**

    1. Ignition OFF, disconnect the X1 harness connector at the K36 Inflatable Restraint Sensing and Diagnostic Module.
    2. Test for infinite resistance between the control circuit and ground.
        - If less than infinite resistance, repair the short to ground on the circuit.
    3. Test for less than 2 Ω in each control circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, replace the K36 Inflatable Restraint Sensing and Diagnostic Module.

    - **If the test lamp illuminates**

11. Test or replace the S48D Multifunction Switch 2 - Instrument Panel.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Instrument Panel Airbag Arming Status Display Replacement for S48D Multifunction Switch 2 - Instrument Panel replacement

DTC B1001

DTC B1001 (Inflatable Restraint Sensing and Diagnostic Module)

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 B1001 00	Option Configuration

Circuit/System Description

The inflatable restraint sensing and diagnostic module stores a primary data key, which is a 4-digit number. When the ignition is turned ON, the inflatable restraint sensing and diagnostic module compares this information to the information stored in the body control module (BCM) via serial data. If there is a mismatch between the information stored in the inflatable restraint sensing and diagnostic module and body control module, DTC B1001 will set.

Conditions for Running the DTC

System voltage is between 9–16 V.

Conditions for Setting the DTC

The 4-digit Primary Data Key stored in the inflatable restraint sensing and diagnostic module does not the 4 digits stored in the body control module.