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1997 CHEVROLET Blazer 5 doors OEM Service and Repair Workshop Manual

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Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Driver Door Unlatch High Control	B250B 02	B251B 04	B251B 01	—
Driver Door Unlatch Low Control	B250B 02	B251B 04	B251B 01	—
Passenger Door Unlatch High Control	B251A 02	B251C 04	B251C 01	—
Passenger Door Unlatch Low Control	B251A 02	B251A 01	B251C 01	—
1. Driver Door Lock Switch Malfunction 2. Passenger Door Lock Switch Malfunction 3. Driver Door Handle Switch Malfunction 4. Passenger Door Handle Switch Malfunction 5. Driver Door Latch Inoperative 6. Passenger Door Latch Inoperative				

Circuit/System Description

The system is designed so that when the operator approaches a locked vehicle with the keyless entry transmitter, the keyless entry control module will detect the keyless entry transmitter and when an exterior door handle is pressed the keyless entry control module will provide voltage and ground to the door latch which will active the door latch allowing the door to be pulled open.

The body control module (BCM) monitors the voltage level of the door lock and door unlock signal circuits. When the door lock switch is in the open position, the voltage level in the signal circuit will be near 12 V. When the door lock switch is pressed to the lock or unlock position, the voltage level in the appropriate signal circuit will drop to 0 V, the BCM will detect the voltage drop and send a serial data message to the keyless entry module to either ignore or allow the functions of the interior and exterior door handle switches.

Reference Information

Schematic Reference

- Door Lock/Indicator Schematics

- **If the parameter is always Inactive when pressing the B27D Door Handle Switch-Driver Exterior**

  Refer to Circuit/System Testing — Exterior Door Handle Switch Inoperative.

- **If the parameter is always Active**

  Refer to Circuit/System Testing — Door Handle Switches Malfunction.

- **If the parameter changes**

5. Verify the scan tool Passenger Door Handle Switch parameter changes between Inactive and Active when pressing the B27F Door Handle Switch-Passenger Interior and the B27P Door Handle Switch-Passenger Exterior.

   - **If the parameter is always Inactive when pressing the B27F Door Handle Switch-Passenger Interior**

     Refer to Circuit/System Testing — Interior Door Handle Switch Inoperative.

   - **If the parameter is always Inactive when pressing the B27P Door Handle Switch-Passenger Exterior**

     Refer to Circuit/System Testing — Exterior Door Handle Switch Inoperative.

   - **If the parameter is always Active**

     Refer to Circuit/System Testing — Door Handle Switches Malfunction.

   - **If the parameter changes**

6. **NOTE**

   Note

   The keyless entry transmitter must be within 1 meter (3 feet) of the door handle

   Verify the driver door opens when pressing the B27D Door Handle Switch-Driver Exterior.

   - **If the driver door does not open**

     Refer to Circuit/System Testing — Driver Door Latch Malfunction

   - **If the driver door does open**

7. **NOTE**

   Note

   The keyless entry transmitter must be within 1 meter (3 feet) of the door handle

- If infinite resistance, replace the K9 Body Control Module

- **If the test lamp illuminates**

5. Ignition OFF and all vehicle systems OFF, connect the X2 harness connect at the K9 Body Control Module and disconnect the harness connector at the appropriate S13 Door Lock Switch. It may take up to 2 minutes for all vehicle systems to power down.

6. Test for less than 10 Ω between the ground circuit terminal 4 and ground.

   - **If 10 Ω or greater**

   1. Ignition OFF.

   2. Test for less than 2 Ω in the ground circuit end to end.

      - If 2 Ω or greater, repair the open/high resistance in the circuit.
      - If less than 2 Ω, repair the open/high resistance in the ground connection.

   - **If less than 10 Ω**

7. Ignition ON.

8. Verify the scan tool Door Lock Switch parameter is Inactive.

   - **If not Inactive**

   1. Ignition OFF, disconnect the harness connector at the K9 Body Control Module.

   2. Test for infinite resistance between the signal circuit terminal 3 and ground.

      - If less than infinite resistance, repair the short to ground on the circuit.

   3. Test for infinite resistance between the signal circuit terminal 2 and ground.

      - If less than infinite resistance, repair the short to ground on the circuit.
      - If infinite resistance, replace the K9 Body Control Module.

   - **If Inactive**

9. Install a 3 A fused jumper wire between the signal circuit terminal 3 and the ground circuit terminal 4.

10. Verify the scan tool Door Lock Switch parameter is Unlock.

    - **If not Unlock**

    1. Ignition OFF, remove the fused jumper wire, disconnect the harness connector at the K9 Body Control Module, ignition ON.

    2. Test for less than 1 V between the signal circuit and ground.

- **If less than 10 Ω**

3. Ignition ON.

4. Install a 3 A fused jumper wire between the signal circuit terminal B and the ground circuit terminal A.

5. Verify the scan tool Door Handle Switch parameter is Active.

   - **If not Active**

     1. Ignition OFF, remove the jumper wire, disconnect the harness connector at the K84 Keyless Entry Control Module, Ignition ON.

     2. Test for less than 2 Ω in the signal circuit end to end.

        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, test or replace the B27 Door Handle Switch-Interior.

   - **If Active**

6. Test or replace the B27 Door Handle Switch-Interior.

Exterior Door Handle Switch Inoperative

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the appropriate B27 Door Handle Switch-Exterior. It may take up to 2 minutes for all vehicle systems to power down.

2. Test for less than 10 Ω between the ground circuit terminal C and ground.

   - **If 10 Ω or greater**

     1. Ignition OFF.

     2. Test for less than 2 Ω in the ground circuit end to end.

        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, repair the open/high resistance in the ground connection.

   - **If less than 10 Ω**

3. Ignition ON.

4. Install a 3 A fused jumper wire between the signal circuit terminal A and the ground circuit terminal C.

5. Verify the scan tool Door Handle Switch parameter is Active.

   - **If not Active**

     1. Ignition OFF, remove the jumper wire, disconnect the harness connector at the K84 Keyless Entry Control Module, Ignition ON.