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1997 CHEVROLET Blazer 3 doors OEM Service and Repair Workshop Manual

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Refer to Circuit/System Testing.

- **If the M97 Fuel Door Lock Actuator does not release the fuel filler door**

3. Verify the M97 Fuel Door Lock Actuator releases the fuel filler door when commanding the All Doors Lock/Unlock to Unlock with a scan tool.
   - **If the M97 Fuel Door Lock Actuator does not release the fuel filler door**

     Refer to Circuit/System Testing.
   - **If the M97 Fuel Door Lock Actuator releases the fuel filler door**
4. All OK.

Circuit/System Testing

1. Ignition OFF, disconnect the KR114 Door Dead Lock Relay, ignition ON.
2. **NOTE**

   Note

   Leaving the DMM connected between a control circuit and ground for greater than 20 seconds will cause the K9 Body Control Module to interpret the test as a system fault and will cause the voltage on the control circuit to drop to 0 V. If the voltage drops to 0 V, operate the door locks using the central door lock switch to restore the voltage for testing.

   Test for greater than 6 V between the control circuit terminal 30 and ground.
   - **If 6 V or less**
     1. Ignition OFF, disconnect the X6 harness connector at the K9 Body Control 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.
        - If infinite resistance
     3. Test for less than 2 Ω in the control circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance on the circuit.
        - If less than 2 Ω, replace the K9 Body Control Module.
   - **If greater than 6 V**

2. Test for infinite resistance between the control 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 control circuit end to end.
    - If 2 Ω or greater, repair the open/high resistance on the circuit.
    - If less than 2 Ω, replace the K9 Body Control Module.

- **If greater than 6 V**

6. Test or replace the M97 Fuel Door Lock Actuator.

Component Testing

1. Ignition OFF, disconnect the harness connector at the M97 Fuel Door Lock Actuator.
2. Install a 25 A fused jumper wire between one of the control terminals and 12 V. Momentarily install a jumper wire between the other control terminal and ground. Reverse the jumper wires at least two times, the M97 Fuel Door Lock Actuator should perform the LOCK and UNLOCK function.
    - **If the actuator does not perform the LOCK and UNLOCK function**

      Replace the M97 Fuel Door Lock Actuator.
    - **If the actuator performs the LOCK and UNLOCK function**
3. All OK

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Electrical Relay Replacement
- Fuel Tank Filler Door Lock Actuator Replacement
- Control Module References for BCM replacement, programming and setup

Circuit	Description
Control—Terminal 1	The output circuit is switched from ground to 12 V to activate the component.
Control—Terminal 2	The output circuit is switched from ground to 12 V to activate the component.

Component	Description
M97 Fuel Fill Door Lock Actuator	The fuel fill door lock actuator is a bidirectional DC motor that locks/unlocks the door.
K9 Body Control Module	The module controls various vehicle functions like lighting, central door locking, power windows, etc.

Reference Information

Schematic Reference

Release Systems Schematics

Connector End View Reference

Master Electrical Component List

Electrical Information Reference

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

Scan Tool Reference

Control Module References

Circuit/System Verification

1. Ignition » On / Vehicle » In Service Mode
2. Operate the component:S13D Door Lock Switch - Driver »Lock Switch

- Control circuit terminal 2@Component harness&Ground
  - If 1 V or greater » Repair the short to voltage on the circuit.
  - If less than 1 V

5. Ignition/Vehicle » Off

6. Test for infinite resistance between the test points:

   - Control circuit terminal 1@Component harness&Ground
   - Control circuit terminal 2@Component harness&Ground
     - If less than infinite resistance » Repair the short to ground on the circuit.
     - If infinite resistance

7. Test for less than 2 Ω between the test points:

   - Control circuit terminal 1@Component harness&Terminal 1@Control module harness
   - Control circuit terminal 2@Component harness&Terminal 4@Control module harness
     - If 2 Ω or greater » Repair the open/high resistance in the circuit.
     - If less than 2 Ω » Refer to: Power Door Locks Malfunction

- **If the specified state**

6. Test or replace the component:M97 Fuel Fill Door Lock Actuator

Component Testing

1. Ignition/Vehicle » Off
2. Disconnect the electrical connector:M97 Fuel Fill Door Lock Actuator
3. Connect a 20 A fused jumper wire between the test points:Control terminal 1&12 V
4. **CAUTION**

   Caution

   Complete the testing as quickly as possible in order to prevent overheating and damaging the component.

   Momentarily connect a jumper wire between the test points:Control terminal 2&Ground

   Reverse the jumper wires 2 times between the terminals.