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1990 CHEVROLET Corvette C4 Convertible OEM Service and Repair Workshop Manual

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Component	Description
Passenger	
K9 Body Control Module	The module controls various vehicle functions like lighting, central door locking, power windows, etc.

Diagnostic Aids

M74 Window Motor—Window Express Up System Not Initialized

- Battery—Disconnected/Replaced
- Front Side Door Wiring Harness—Disconnected
- M74 Window Motor—Disconnected

M74 Window Motor »Normalized— Window Motor Programming - Express Function

Reference Information

Schematic Reference

Moveable Window 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

- M74P Window Motor - Passenger=Up
- M74P Window Motor - Passenger=Express Up
- M74P Window Motor - Passenger=Down
- M74P Window Motor - Passenger=Express Down
  - **If the component does not work as specified**

    Refer to: Circuit/System Testing—Test 2
  - **If the component works as specified**

7. All OK.

Circuit/System Testing

Test 1

1. **NOTE**

   Note

   It may take up to 2 min for all vehicle systems to power down before an accurate ground or low reference circuit continuity test can be performed.

   Ignition/Vehicle & All vehicle systems » Off
2. Disconnect the electrical connector:S79D Window Switch - Driver
3. Test for less than 10 Ω between the test points:Ground circuit terminal 1&Ground
   - **If 10 Ω or greater**
     1. Ground Connection »Disconnect
     2. Test for less than 2 Ω between the test points:Ground circuit terminal 1@Component harness&Ground Connection
        - 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**
4. Ignition » On / Vehicle » In Service Mode
5. Verify a test lamp turns On between the test points:B+ circuit terminal 4&Ground

6. Test for infinite resistance between the test points:Signal circuit terminal 3@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:Signal circuit terminal 3@Component harness&Signal circuit terminal 6@S79D Window Switch - Driver
    - If 2 Ω or greater » Repair the open/high resistance in the circuit.
    - If less than 2 Ω » Replace the component:S79D Window Switch - Driver

- **If the specified state**

11. Connect a test lamp between the test points:Signal circuit terminal 7&B+
12. Ignition » On / Vehicle » In Service Mode
13. Operate the component:S79D Window Switch - Driver »Pressed

    Verify the test lamp state:

    S79D Window Switch - Driver »Not Used=Test lamp Off

    S79D Window Switch - Driver »Pressed=Test lamp On

- **If not the specified state**

1. Ignition/Vehicle » Off & Remove » Test lamp
2. Disconnect the electrical connector:S79D Window Switch - Driver
3. Ignition » On / Vehicle » In Service Mode
4. Test for less than 1 V between the test points:Signal circuit terminal 7@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:Signal circuit terminal 7@Component harness&Ground
    - If less than infinite resistance » Repair the short to ground on the circuit.
    - If infinite resistance

- If less than 2 Ω » Replace the component:S79D Window Switch - Driver

- **If the specified state**

17. Test or replace the component:M74D Window Motor - Driver

Test 2

1. **NOTE**

   Note

   It may take up to 2 min for all vehicle systems to power down before an accurate ground or low reference circuit continuity test can be performed.

   Ignition/Vehicle & All vehicle systems » Off

2. Disconnect the electrical connector:S79P Window Switch - Passenger
3. Test for less than 10 Ω between the test points:
   - { Without AAB }Ground circuit terminal 1&Ground
   - { With AAB }Ground circuit terminal 10&Ground
   - **If 10 Ω or greater**

     1. Ground Connection »Disconnect
     2. Test for less than 2 Ω between the test points:
        - { Without AAB }Ground circuit terminal 1@Component harness&Ground Connection
        - { With AAB }Ground circuit terminal 10@Component harness&Ground Connection
        - 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**

4. Ignition » On / Vehicle » In Service Mode
5. Verify the scan tool parameter:Passenger Window Switch at Door=Inactive
   - **If not the specified state**

     1. Ignition/Vehicle » Off
     2. Disconnect the electrical connector:M74P Window Motor - Passenger