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2001 CHEVROLET Cavalier OEM Service and Repair Workshop Manual

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The head-up display switch is a multiplexed switch that controls the head-up display based on driver inputs. The head-up display provides the switch with a low reference and monitors a signal circuit. The head-up display switch is made up of a resistor ladder and three switches: Dim +/-, Up/Down, and Page. When a switch is pressed, the signal voltage is pulled low through the resistor ladder. When pressed, each of the switches will result in a different signal voltage seen by the head-up display, depending on the switch's location on the resistor ladder.

Conditions for Running the DTC

Ignition ON/Vehicle in Service Mode.

Conditions for Setting the DTC

B361B 02

The head-up display switch signal voltage is less than 1 V

B361B 05

The head-up display switch signal voltage is greater than 11.5 V

B361B 59

The head-up display switch is stuck

Action Taken When the DTC Sets

The head-up display ignores the head-up display switch inputs

Conditions for Clearing the DTC

The DTC will become history if the head-up display no longer detects a malfunction

Reference Information

Schematic Reference

Head-Up Display Schematics

Connector End View Reference

Master Electrical Component List

Description and Operation

Instrument Cluster Description and Operation

Circuit/System Verification must be performed before proceeding with Circuit/System Testing.

1. Ignition OFF/Vehicle OFF and all vehicle systems OFF, disconnect the harness connector at the S27 Head-Up Display Switch. 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 3 and ground.
   - **If 10 Ω or greater**
     1. Ignition OFF/Vehicle OFF, disconnect the harness connector at the P29 Head-Up Display.
     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 P29 Head-Up Display.
   - **If less than 10 Ω**
3. Test for 4.8–5.2 V between the signal circuit terminal 4 and ground.
   - **If less than 4.8 V**
     1. Ignition OFF/Vehicle OFF, disconnect the harness connector at the P29 Head-Up Display.
     2. Test for infinite resistance between the signal 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 signal circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, replace the P29 Head-Up Display.
   - **If greater than 5.2 V**
     1. Ignition OFF/Vehicle OFF, disconnect the harness connector at the P29 Head-Up Display, ignition ON.
     2. Test for less than 1 V between the signal circuit and ground.
        - If 1 V or greater, repair the short to voltage on the circuit.
        - If less than 1 V, replace the P29 Head-Up Display.
   - **If between 4.8–5.2 V**
4. Test or replace the S27 Head-Up Display switch.

Replace the S27 Head-Up Display Switch.

- **If between 1.7K – 2.1K** Ω

8. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Displays and Gauges Component Replacement Reference
- Control Module References for control module replacement, programming and setup

Conditions for Running the DTC

Ignition On

Conditions for Setting the DTC

The internal fault detection is handled inside the control module. No external circuit diagnosis is involved.

Actions Taken When the DTC Sets

DTCs listed in the DTC Descriptor category=Type B DTC

Conditions for Clearing the DTC

DTCs listed in the DTC Descriptor category=Type B DTC

Diagnostic Aids

DTC P0070 is set in case the battery was disconnected or the control module was re-programmed.

Reference Information

Schematic Reference

Instrument Cluster Schematics

Connector End View Reference

Master Electrical Component List

Description and Operation

Instrument Cluster Description and Operation

Electrical Information Reference

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

DTC Type Reference

Powertrain Diagnostic Trouble Code (DTC) Type Definitions