

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2009 CHEVROLET Agile OEM Service and Repair Workshop Manual

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- Serial Data=No Error

Frequency the DTC runs=Continuously—After the running conditions are met

Conditions for Setting the DTC

Serial Data=Transmission Mode Switch Signal Message Counter Incorrect—Between the following control modules:

- K71 Transmission Control Module
- K9 Body Control Module

Actions Taken When the DTC Sets

DTCs listed in the DTC Descriptor category=Type C DTC

Manual Shift Control=Disabled

Conditions for Clearing the DTC

DTCs listed in the DTC Descriptor category=Type C DTC

Reference Information

Schematic Reference

[Automatic Transmission Controls 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](#)

DTC Type Reference

[Powertrain Diagnostic Trouble Code \(DTC\) Type Definitions](#)

Scan Tool Reference

[Control Module References](#)

YOUR CURRENT VEHICLE

DTC P1765-P1767

DTC P1765-P1767

Diagnostic Instructions

- Perform the Diagnostic System Check prior to using this diagnostic procedure: [Diagnostic System Check - Vehicle](#)
- Review the description of Strategy Based Diagnosis: [Strategy Based Diagnosis](#)
- An overview of each diagnostic category can be found here: [Diagnostic Procedure Instructions](#)

DTC Descriptor

DTC P1765	Upshift Switch 2 Circuit
DTC P1766	Downshift Switch 2 Circuit
DTC P1767	Up and Down Shift Switch 2 Circuit

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Signal	P1767	—	—	—
Ground	—	—	—	—

Mechanical Condition

Component	Description
K9 Body Control Module	The control module contains a microprocessor used to process input data to control outputs.
K71 Transmission Control Module	The control module contains a microprocessor used to process input data to control outputs. The control module receives information from a variety of sensors, switches and serial data information from other control modules. This information is used to control a combination of solenoid valves to obtain the correct line pressure, gear ratio and torque converter clutch operation.
S2L Transmission Manual Shift Switch - Left	The switch S2L has an internal resistor ladder network. A specific resistance is generated dependent on the position of the switch.
S2R Transmission Manual Shift Switch - Right	The switch S2R has three terminals. The switch has a resistor between the input terminal and the internal switch. When pressed or released the switch changes between two output terminals.

The switches S2L and S2R are connected in series between the ground and the signal circuit and are inputs to the control module K9. When a switch is pressed, the voltage drop across the switches changes. The driver shift request is sent over serial data to the control module K71. The control module K71 ignores a shift request if the transmission shift lever is not in the manual mode position, or the operating conditions are out of range.

For an overview of the component/system, refer to: [Manual Mode Description and Operation](#)

Conditions for Running the DTC

- DTC P0815, P0816, P0826, P1765, P1766, P1767 = Not set
- Engine Speed=400 to 7,500 RPM
- Ignition Voltage=Greater than 9 V
- Time since the last transmission shift=Greater than 1 s

Frequency the DTC runs=Continuously—After the running conditions are met

Diagnostic Aids

A high resistance or short to voltage in the signal circuit will not set a DTC.

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[Control Module References](#)

Circuit/System Verification

1. Ignition » On / Vehicle » In Service Mode
2. Operate the component:S3 Transmission Shift Lever=M
3. Verify the scan tool parameter:Driver Shift Control Mode=Active

- **If not the specified state**

Refer to: Circuit/System Testing

- **If the specified state**

4. Operate the component:S2L Transmission Manual Shift Switch - Left

Verify the scan tool parameter:S2L Transmission Manual Shift Switch - Left=DownorDownshift

- **If not the specified state**