

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 Camaro OEM Service and Repair Workshop Manual

[Go to manual page](#)

2. Disconnect the X176 connector.

3. Connect a 3 A fused jumper wire between the 9 V reference 1 circuit terminal 19 and the signal S circuit terminal 6, ignition On.

4. Verify the scan tool signal S parameter displays 4.8–5.2 V.

- If greater than 5.2 V

Replace the automatic transmission wiring harness, electrical connector passage sleeve.

- If between 4.8–5.2 V

Replace the transmission control wiring harness.

- **If between 4.8–5.2 V**

9. Replace the B15 Transmission Internal Mode Switch.

Repair Instructions

Perform the [Diagnostic Repair Verification](#) after completing the repair.

- [Automatic Transmission Fluid, Fluid Pan and/or Filter Replacement](#)
- [Automatic Transmission Wiring Harness Replacement](#)
- [Manual Shift Shaft Position Switch Replacement](#)
- [Transmission Control Wiring Harness Replacement](#)
- Perform the [Transmission Service Fast Learn Procedure](#) following all transmission related repairs.
- Refer to [K71 Transmission Control Module: Programming and Setup](#)

| Component | DTC | Condition |
|--|-----------------|--|
| Q77D Transmission Control Solenoid Valve 4 | P2714, P2715 | <ul style="list-style-type: none"> • Binding, sticking or stuck component:Solenoid Valve • Damaged or missing component: <ul style="list-style-type: none"> ▪ Retaining Clip ▪ Solenoid Valve |
| 2-3-4-6-8Clutch Regulator Valve | P2714, P2715 | <ul style="list-style-type: none"> • Blocked or restricted component:Screen—Fluid/oil passage • Binding, sticking or stuck component:Valve • Debris on the component. • Damaged component: <ul style="list-style-type: none"> ▪ ValveorBore—Scored ▪ Spring |
| 2-3-4-6-8 Clutch Assembly | P2714, P2715 | <ul style="list-style-type: none"> • Blocked or restricted component:Fluid/oil passage • Leaking component: <ul style="list-style-type: none"> ▪ Clutch Piston ▪ Clutch Housing ▪ Gasket ▪ O-Ring ▪ Seal • Binding, sticking or stuck component:Clutch Plates • Damaged or worn component: <ul style="list-style-type: none"> ▪ Clutch Plates ▪ Clutch Piston ▪ Clutch Housing |

Circuit/System Description

- Tap Up or Tap Down=Disabled
- TCC Control=Disabled
- Transmission Adaptive Pressure Control=Freeze current adapt values
- { P2714 }Transmission gear allowed=Reverse or Gear 5
- { P2715 }Transmission gear allowed=Reverse or Gear 4

Conditions for Clearing the DTC

DTCs listed in the DTC Descriptor category=Type A DTC

Diagnostic Aids

High resistance in the circuits of the component Q77D may set DTC P2714 without setting control circuit DTC(s).

Reference Information

Description and Operation

- Park - Engine Running
- Reverse
- Neutral - Engine Running
- Drive Range, First Gear
- Drive Range, Second Gear
- Drive Range, Third Gear
- Drive Range, Fourth Gear
- Drive Range, Fifth Gear
- Drive Range, Sixth Gear
- Drive Range, Seventh Gear
- Drive Range, Eighth Gear

DTC Type Reference

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

- [Control Valve Body Assembly Disassemble](#)
- [Control Valve Body Replacement](#)
- For control module replacement, programming, and setup refer to: [Control Module References](#)

Additional Procedures

[Transmission Service Fast Learn Procedure](#)—Perform only when the component/system is serviced.