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2008 CHEVROLET TrailBlazer OEM Service and Repair Workshop Manual

Go to manual page

YOUR CURRENT VEHICLE

DTC P0711-P0713

DTC P0711-P0713

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 P0711	Transmission Fluid Temperature Sensor Performance
DTC P0712	Transmission Fluid Temperature Sensor Circuit Low Voltage
DTC P0713	Transmission Fluid Temperature Sensor Circuit High Voltage

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Signal	P0712	P0713	P0713*	P0711
Low Reference	—	P0713	P0713*	P0711
*Internal control module or component damage may occur if the circuit shorts to B+.				

The sensor is an input to the control module K71.The input signal is used to determine the temperature of the fluid:Transmission

Conditions for Running the DTC

P0711Condition 1

- DTC P0712, P0713, P2818 = Not set
- DTCs related to the following system/component = Not Set
  - B14A Transmission Output Shaft Speed Sensor/B115 Vehicle Speed Sensor
  - B26 Crankshaft Position Sensor
  - B34 Engine Coolant Temperature Sensor
  - B74 Manifold Absolute Pressure Sensor
  - B75 Mass Air Flow Sensor
  - B107 Accelerator Pedal Position Sensor
  - Q17 Fuel Injector
  - Engine Misfire
  - Fuel Trim System
- Accelerator Pedal Position Sensor=Greater than 4%
- Battery Voltage=Greater than 9 V
- Engine Coolant Temperature=−40 to 130 °C (−40 to 266 °F)
- Engine Speed=Greater than 500 RPM
- Engine Torque=Greater than 50 Nm (37 lb ft)
- Ignition=On
- Ignition Voltage=Greater than 9 V
- Transmission Fluid Temperature=−40 to 130 °C (−40 to 266 °F)
- Vehicle Speed=Greater than 10 km/h (7 MPH)

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

Reference Information

Schematic Reference

Automatic Transmission Controls Schematics

Connector End View Reference

- Component Connector End Views
- Inline Harness Connector End Views

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

Circuit/System Verification

1. Ignition » On / Vehicle » In Service Mode
2. Verify the scan tool parameter:Transmission Fluid Temperature=−39 to 129 °C (−38 to 264 °F)
    - **If not between −39 and 129 °C (−38 and 264 °F)**

      Refer to: Circuit/System Testing
    - **If between −39 and 129 °C (−38 and 264 °F)**
3. Verify DTC P0711 is not set.
    - **If the DTC is set**

    1. Verify the condition does not exist:Incorrect fluid level or condition »Refer to: Transmission Fluid Level and Condition Check
        - If a condition exists » Repair or replace as necessary
        - If no condition exists

2. Disconnect the electrical connector:X175Inline Harness Connector@T12 Automatic Transmission Assembly

3. **NOTE**

   Note

   Testing for steps 3 to 7 is performed on the control module K71 side of the harness connector.

   Test for less than 10 Ω between the test points:Low Reference circuit terminal 11@X175Inline Harness Connector&Ground

   - **If 10 Ω or greater**

     1. Disconnect the electrical connector:K71 Transmission Control Module
     2. Test for less than 2 Ω between the test points:Low Reference circuit terminal 11@X175Inline Harness Connector&The other end of the circuit@Control module harness
        - If 2 Ω or greater » Repair the open/high resistance in the circuit.
        - If less than 2 Ω » Replace the component:K71 Transmission Control Module

   - **If less than 10 Ω**

4. Ignition » On / Vehicle » In Service Mode
5. Verify the scan tool parameter:Transmission Fluid Temperature=Colder than −39 °C (−38 °F)

   - **If −39 °C (−38 °F) or warmer**

     1. Ignition/Vehicle » Off
     2. Disconnect the electrical connector:K71 Transmission Control Module
     3. Test for infinite resistance between the test points:Signal circuit terminal 12@X175Inline Harness Connector&Ground
        - If less than infinite resistance » Repair the short to ground on the circuit.
        - If infinite resistance » Replace the component:K71 Transmission Control Module

   - **If colder than −39 °C (−38 °F)**

6. Connect a 3 A fused jumper wire between the test points:Signal circuit terminal 12&Low Reference circuit terminal 11@X175Inline Harness Connector
7. Verify the scan tool parameter:Transmission Fluid Temperature=Warmer than 129 °C (264 °F)