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2000 CHEVROLET Blazer 5 doors OEM Service and Repair Workshop Manual

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- The DTC is not detected in 40 consecutive drive cycles.

Reference Information

Schematic Reference

Rear Axle Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

- Rear Drive Axle Description and Operation
- Limited Slip Differential Description and Operation

Electrical Information Reference

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

Scan Tool Reference

Control Module References for scan tool information

Diagnostic Aids

DTC C0411 will not set for too low or high differential pressure.

Circuit/System Verification

1. Ignition ON.
2. Verify the scan tool Rear Differential Oil Pressure Sensor parameter is 0.405–0.72 V
   - **If not between 0.405–0.72 V.**

     Refer to Circuit/System Testing.
   - **If between 0.405–0.72 V.**
3. All OK.

        - If less than 1 V, replace the K47 Rear Differential Clutch Control Module.
    - **If between 4.8–5.2 V**

5. Verify the scan tool Rear Differential Oil Pressure Sensor parameter is greater than 4.0 V.
    - **If 4.0 V or less**

    1. Ignition OFF, disconnect the harness connector at the K47 Rear Differential Clutch Control Module.
    2. Test for infinite resistance between the signal circuit terminal 4 and ground.
        - If less than infinite resistance, repair the short to ground on the circuit.
        - If infinite resistance, replace the K47 Rear Differential Clutch Control Module.

    - **If greater than 4.0 V**

6. Install a 3 A fused jumper wire between the signal circuit terminal 4 and the low reference circuit terminal 2.
7. Verify the scan tool Rear Differential Oil Pressure Sensor parameter is less than 1.0 V.
    - **If 1.0 V or greater**

    1. Ignition OFF, remove the jumper wire, disconnect the harness connector at the K47 Rear Differential Clutch Control Module, ignition ON.
    2. Test for less than 1 V between the signal circuit terminal 4 and ground.
        - If 1 V or greater, repair the short to voltage on the circuit.
        - If less than 1 V
    3. Ignition OFF
    4. 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 K47 Rear Differential Clutch Control Module.

8. Test or replace the B260 Rear Differential Oil Pressure/Temperature sensor.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- Transmission Fluid Pressure Sensor Replacement

YOUR CURRENT VEHICLE

DTC C0412

DTC C0412

Diagnostic Instructions

- Perform the Diagnostic System Check - Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

DTC Descriptors

DTC C0412	Rear Differential Clutch Temperature Sensor Circuit

For symptom byte information, refer to Symptom Byte List

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Signal	C0412 06	C0412 08	C0412 05	C0412 08
Low Reference	—	C0411 08, C0412 08	—	—

Circuit/System Description

The rear differential clutch hydraulic temperature sensor outputs a voltage that represents the physical temperature of the rear differential clutch hydraulic fluid.

- Rear Drive Axle Description and Operation
- Limited Slip Differential Description and Operation

Electrical Information Reference

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

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Testing

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the B260 Rear Differential Oil Pressure/Temperature Sensor. 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 2 and ground.
    - **If 10 Ω or greater**
        1. Ignition OFF, disconnect the harness connector at the K47 Rear Differential Clutch Control Module.
        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 K47 Rear Differential Clutch Control Module.
    - **If less than 10 Ω**
3. Ignition ON.
4. Verify the scan tool Rear Differential Pump Temperature Sensor parameter is greater than 4.0 V.
    - **If 4.0 V or less**
        1. Ignition OFF, disconnect the harness connector at the K47 Rear Differential Clutch Control Module.
        2. Test for infinite resistance between the signal circuit terminal 1 and ground.
            - If less than infinite resistance, repair the short to ground on the circuit.
            - If infinite resistance, replace the K47 Rear Differential Clutch Control Module.
    - **If greater than 4.0 V**