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2000 CHEVROLET Blazer 3 doors OEM Service and Repair Workshop Manual

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YOUR CURRENT VEHICLE

Rear Axle Lubricant Leak Diagnosis

Rear Axle Lubricant Leak Diagnosis

Rear Axle Lubricant Leak Diagnosis

Cause	Correction
NOTE **Important** Upon completion of all repairs, refill the axle with the proper amounts of axle lubricant and friction modifier additive. Refer to Differential Oil Replacement and Approximate Fluid Capacities.	
Restricted or damaged vent valve assembly	Replace the vent valve.
Worn, scored, or missing drain and/or fill plug sealing washers	Install new sealing washers and tighten the plugs per specifications.
Damaged speed sensor and/or O-ring seal	Replace the speed sensor and/or the O-ring seal as required.
Rear cover gasket	Replace the rear cover gasket.
Left or right side cover O-ring seal	Replace the side cover O-ring seal as required.
Worn or damaged axle shaft oil seals	Replace the axle shaft oil seals as required.
Worn or damaged carrier seal plate O-ring or oil seal–automatic transmission only	Replace the O-ring and oil seal as required.
Housing or side cover porosity	Replace the housing and/or the covers as required.

YOUR CURRENT VEHICLE

Symptoms - Rear Drive Axle

Symptoms - Rear Drive Axle

Strategy Based Diagnostics

Review the system operations in order to familiarize yourself with the system functions. Refer to Rear Axle Disassembled Views and Rear Drive Axle Description and Operation and Wheel Drive Shafts Description and Operation. All diagnosis on a vehicle should follow a logical process. Strategy based diagnostics is a uniform approach for repairing all systems. The diagnostic flow may always be used in order to resolve a system condition. The diagnostic flow is the place to start when repairs are necessary. For a detailed explanation, refer to Strategy Based Diagnosis.

Visual/Physical Inspection

- Inspect for aftermarket devices, which could affect the operation of the vehicle. Refer to Checking Aftermarket Accessories.
- Inspect the easily accessible or visible system components for obvious damage or conditions, which could cause the symptom.
- Inspect for the correct lubricant level and the proper viscosity.
- Verify the exact operating conditions under which the concern exists. Note factors such as vehicle speed, road conditions, ambient temperature, and other specifics.
- Compare the driving characteristics or sounds, if applicable, to a known good vehicle and make sure you are not trying to correct a normal condition.

Intermittent

Test the vehicle under the same conditions that the customer reported in order to verify the system is operating properly.

YOUR CURRENT VEHICLE

DTC C0393

DTC C0393

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 Descriptor

DTC C0393	Rear Differential Clutch Solenoid Valve Control 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
Control — Terminal 1	C0393 02	C0393 04	C0393 01	—
Control — Terminal 2	C0393 02	C0393 04	C0393 01	—

Circuit/System Description

The rear differential clutch solenoid valve is an electro-hydraulic valve used to relieve pressure in the hydraulic system for safety reasons. When the valve is energized, the valve is closed and hydraulic pressure can be

- The rear differential clutch solenoid valve has a constant duty cycle of 20–80% for 10 ms.
- The low side voltage monitor signal is less than 15% of batter voltage.
- The high side status signal is less than 0.30 V.
- The solenoid valve current is less than 0.423 A.

  C0393 61

- A stuck solenoid valve is detected.

Action Taken When the DTC Sets

One or more of the following actions may occur:

- The electronic limited slip system is disabled for the duration of the key cycle.
- Service Rear Axle will be displayed in the driver information center.

Conditions for Clearing the DTC

- The condition for the DTC is no longer present.
- 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