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2022 Chevrolet Colorado Manual – Service & Repair Guide

Go to manual page

DTC	Diagnostic Procedure
C004F	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0035-C0050
C0050	Antilock Brake System - Greater than/Equal to 3900 kg (8600 lb) GVW - DTC C0035-C0050
C0050	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0035-C0050
C0110	Antilock Brake System - Greater than/Equal to 3900 kg (8600 lb) GVW - DTC C0110
C0110	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0110
C0131	Antilock Brake System - Greater than/Equal to 3900 kg (8600 lb) GVW - DTC C0131
C0131	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0131
C0161	Antilock Brake System - Greater than/Equal to 3900 kg (8600 lb) GVW - DTC C0161
C0161	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0161
C0176	Power Steering - DTC C0176
C0186	Antilock Brake System - Greater than/Equal to 3900 kg (8600 lb) GVW - DTC C0186, C0187, C0196, or C0287
C0186	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0186, C0187, C0196, or C0287
C0187	Antilock Brake System - Greater than/Equal to 3900 kg (8600 lb) GVW - DTC C0186, C0187, C0196, or C0287
C0187	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0186, C0187, C0196, or C0287
C018C	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C018C
C0196	Antilock Brake System - Greater than/Equal to 3900 kg (8600 lb) GVW - DTC C0186, C0187, C0196, or C0287
C0196	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0186, C0187, C0196, or C0287
C0242	Antilock Brake System - Greater than/Equal to 3900 kg (8600 lb) GVW - DTC C0242
C0242	Antilock Brake System - Less than 3900 kg (8600 lb) GVW - DTC C0242

Parameter	Description
	pressure fuel pump/regulator(s) are controlled to ensure maximum fuel system pressure is achieved while the engine is cranking and fuel pressure maintained after the engine stops rotating.
Fuel System Reset	This device control is used to trigger a reset of the fuel set-point adaptation (FSA) learning adaptive map.
Fuel Trim Enable	This device control is used to enable or disable fuel trim learning.
Fuel Trim Reset	This device control is used to reset the learned fuel trim values to their initial values.
Generator L-Terminal	This device control is used to override the state of the generator L terminal output.
High Pressure Fuel Pump Learn	This device control is used to start (trigger) and run the high fuel pressure learn process in order to fine tune the high pressure fuel pump after a high pressure component replacement.
HO2S Heater Bank 1 or 2 Sensor 1 or 2	This device control is used to override the duty cycle of the oxygen sensor heaters.
HO2S Heater Bank 1 Sensor 1 Command	Activates the HO2S bank 1 sensor 1 heater. The commanded states include ON and OFF. The normal commanded state is OFF. Commanding the HO2S bank 1 sensor 1 heater ON turns on the heater driver. The system remains in the commanded state until cancelled by the tool.
HO2S Heater Bank 1 Sensor 2 Command	Activates the HO2S bank 1 sensor 2 heater. The commanded states include ON and OFF. The normal commanded state is OFF. Commanding the HO2S bank 1 sensor 2 heater ON turns on the heater driver. The system remains in the commanded state until cancelled by the tool.
HO2S Heater Bank 2 Sensor 1 Command	Activates the HO2S bank 2 sensor 1 heater. The commanded states include ON and OFF. The normal commanded state is OFF. Commanding the HO2S bank 2 sensor 1 heater ON turns on the heater driver. The system remains in the commanded state until cancelled by the tool.
HO2S Heater Learn	This device control is used to trigger a service bay procedure to learn the oxygen sensor heater resistance following a sensor replacement in service.
HO2S Reset	This device control is used to trigger a reset of the oxygen sensor drift compensation value, in case of an oxygen sensor replacement.
HO2S Test	This device control is used to trigger a service bay procedure to execute the oxygen sensor response test following a sensor replacement in service.
Idle Ignition Timing	This device control is used to disable the portion of the spark control algorithm that adjusts spark angle to correct the difference between commanded idle engine speed and actual idle engine speed.

- If the figure obtained in step 8 was 3.53 mm (0.139 in), use a 3.30 mm (0.130 in) shim.
- If the figure obtained in step 8 was 3.30 mm (0.130 in), use a 3.05 mm (0.120 in) shim.

Alternate Adjustment Method

1. **NOTE**

   Note

   Use this method only if the proper tools for calculating the shim size are unavailable.

   Install the original shim to the shaft.

   Use the chassis grease in order to hold the shim in place.

2. Install the inner axle housing assembly to the differential carrier case.

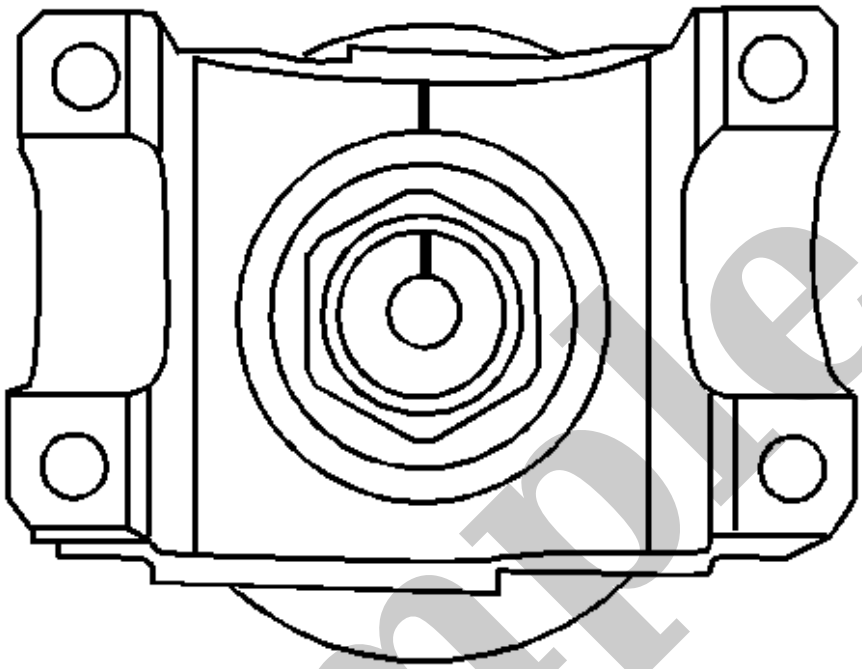
   Do not use sealer at this time.

3. **CAUTION**

   Caution

   Refer to Fastener Caution.

   Install the bolts and tighten to ***40 N·m (30 lb ft)*** for the 9.25 inch clamshell axle, or to ***55 N·m (41 lb ft)*** for the 8.25 inch axle.



11.

Scribe an alignment line between the pinion shaft and the pinion yoke.

YOUR CURRENT VEHICLE

Differential Carrier Bearing Preload Adjustment

Differential Carrier Bearing Preload Adjustment (8.6 Inch Axle)

Wedge Method

Special Tools

- J 25588 *Side Bearing Shim Installer*
- J 22779 *Side Bearing Backlash Gauge*

CAUTION

Caution

Pinion nut is a single use fastener. Failure to replace the pinion nut with a NEW pinion nut, may lead to the pinion nut losing retention, and could cause loss of vehicle propulsion.

NOTE

Note

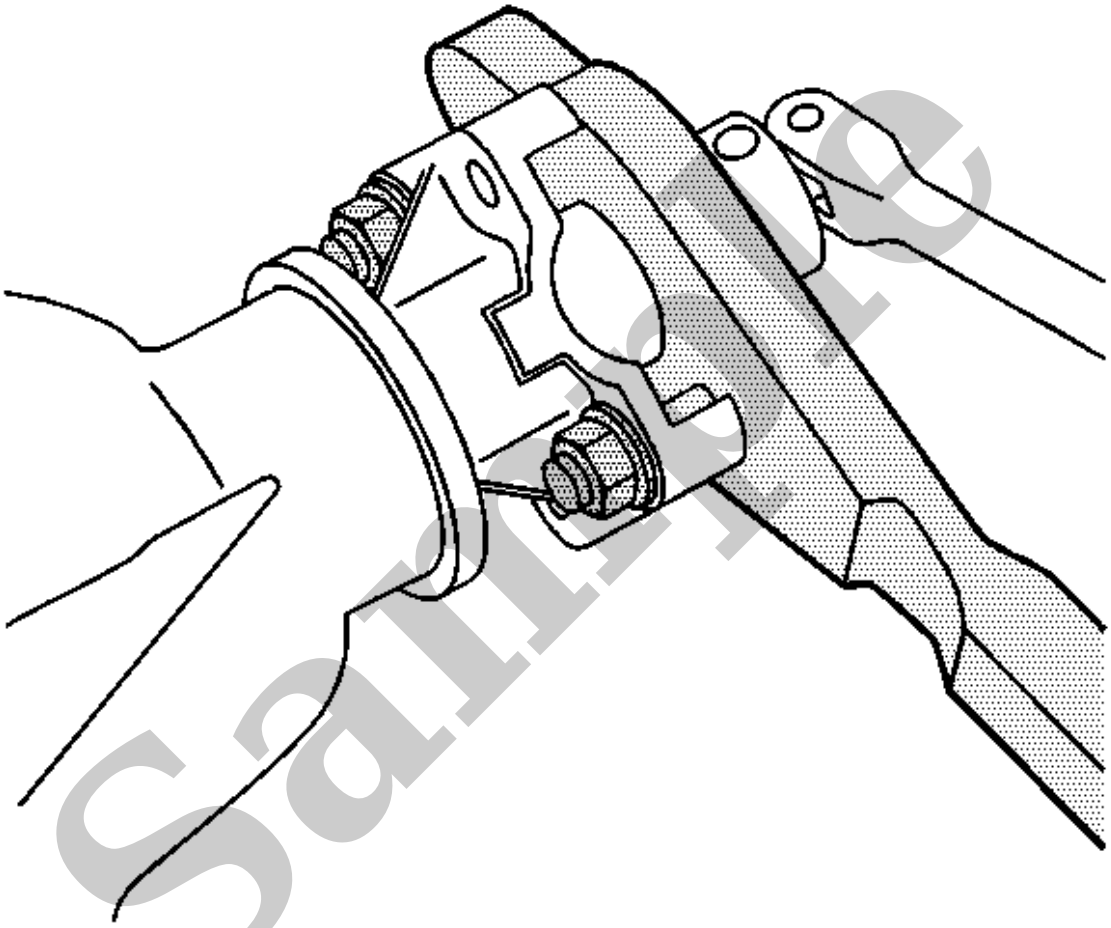
- The differential side bearing preload adjustment must be completed before the backlash adjustment can be started.
- In order to maintain the original backlash, adjust the differential case side bearing preload by changing the thickness of the left and the right side shim packs equally.
- Measure the service shims and the spacers one at a time. Add the measurements together in order to obtain the total thickness of the left or the right side shim pack.
- Do not use or reuse the original cast iron production shims. Use service shims and spacers instead.

1. Install the drive pinion, if necessary. Refer to Drive Pinion and Ring Gear Replacement.

Refer to Pinion Flange/Yoke Installation Caution.

Using a soft faced hammer, seat the pinion yoke onto the pinion shaft until a few threads are visible.

4. Install the washer (if applicable) and a NEW pinion nut.



5.

NOTE

Note

If the target rotating torque is exceeded during reassembly, the pinion flange assembly will have to be removed and a new collapsible spacer installed.

Holding the **J-8614-01** ***holder*** , tighten the pinion nut until the pinion end play is just taken up.

6. Frequently rotate the pinion while tightening the nut to seat the bearings.

- **If less than infinite resistance**

  Replace the coax cable.

- **If infinite resistance**

5. All OK.

Repair Instructions

Perform the Diagnostic Repair Verification after completing the repair.

- High Frequency Antenna Replacement
- Control Module References for Human Machine Interface control module or Telematics Communication Interface Control Module replacement, programming, and setup.

Conditions for Setting the DTC

DTC B1025 01, B1035 01, B1045 01, B1065 01, B1075 01, B1085 01, B1095 01, B1105 01, B1115 01

A short to voltage is detected on the specified (+) or (−) signal circuit

DTC B1025 02, B1035 02, B1045 02, B1065 02, B1075 02, B1085 02, B1095 02, B1105 02, B1115 02

A short to ground is detected on the specified (+) or (−) signal circuit

DTC B1025 04, B1035 04, B1045 04, B1065 04, B1075 04, B1085 04, B1095 04, B1105 04, B1115 04

An open is detected on the specified (+) or (−) signal circuit

Action Taken When the DTC Sets

The amplifier mutes the output channel and no sound is present from the speaker(s) that have a current circuit fault.

Conditions for Clearing the DTC

- The condition for setting the DTC is no longer present.
- A history DTC will clear once 50 consecutive malfunction-free ignition cycles have occurred.

Reference Information

Schematic Reference

Radio/Navigation System 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

Scan Tool Reference

Control Module References for scan tool information

Special Tools