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2022 Chevrolet Silverado 1500 - 4WD LTD Service and Repair Manual

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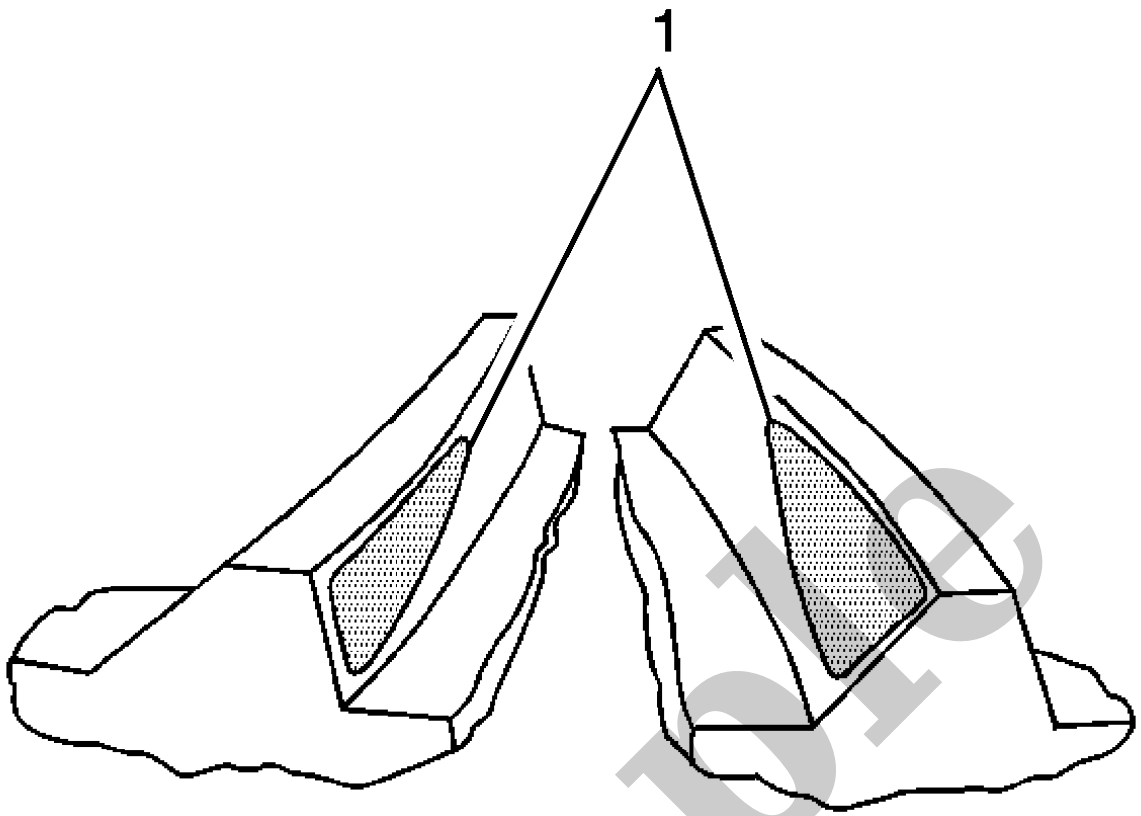
DTC	Diagnostic Procedure
P00C8	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0090-P0092, P00C8, P00C9, P00CA, or P163A
P00C9	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0090-P0092, P00C8, P00C9, P00CA, or P163A
P00CA	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0090-P0092, P00C8, P00C9, P00CA, or P163A
P00F4	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0097-P0099 or P00F4-P00F6
P00F5	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0097-P0099 or P00F4-P00F6
P00F6	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0097-P0099 or P00F4-P00F6
P00FF	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P00FF, P069E, P06EC, P0700, P0800, P0A7B, P0AC4, P0CA1, P1700, P1E00, P2561, P25A2, P25AF, P25C9, P26C8, or P26C9
P0101	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0101-P0103
P0102	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0101-P0103
P0103	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0101-P0103
P0106	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0106, P0107, or P0108
P0107	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0106, P0107, or P0108
P0108	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0106, P0107, or P0108
P0111	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0096 or P0111
P0112	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0112-P0114
P0113	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0112-P0114
P0114	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0112-P0114
P0116	Engine Controls and Fuel - 5.3L (L83) or 6.2L (L86) - DTC P0116-P0119

Parameter	System State	Expected Value	Description
Catalyst Monitor Complete This Ignition Cycle	—	Yes/No	This parameter indicates the status of the catalyst monitor diagnostic. Catalyst Monitor Test Running indicates Yes or No when the catalyst monitor diagnostic is actively running a test
Catalyst Monitor Enabled	—	Yes/No	The scan tool displays Yes when the Catalyst Monitor is Enabled. If the scan tool displays No this could indicate a malfunction in the Catalyst Monitor circuit.
Catalyst Monitor Enabled This Ignition Cycle	—	Yes/No	This parameter indicates the status of the catalyst monitor diagnostic. Catalyst Monitor Test Running indicates Yes or No when the catalyst monitor diagnostic is actively running a test
Change Engine Oil Indicator Command	—	Off	Engine Oil Change Indication On indicates that the change engine oil indication is being requested On in order to inform the driver that the engine oil needs to be changed.
Charge Air Cooler Temperature	—	Varies	This parameter displays the charge air cooler temperature measured by a sensor located first in the charge air cooler stream.
Charge Air Cooler Inlet Temperature	—	°C (°F)	This parameter contains the undefaulted charge air cooler temperature measured by a sensor located first in the charge air cooler stream in relationship to any other charge air cooler temperature sensors in the system.
Charge Air Cooler Outlet Temperature	—	°C (°F)	This parameter contains the undefaulted charge air cooler temperature measured by a sensor located second in the charge air cooler stream in relationship to any other charge air cooler temperature sensors in the system.
{ If equipped }Clutch Pedal Starter Inhibit Switch	Engine Idling	On	This parameter displays ON when the clutch pedal is released.
{ If equipped }Clutch Pedal Switch	Engine Idling	Released	This parameter displays the state of the clutch pedal as determined by the control module from the clutch pedal switch.



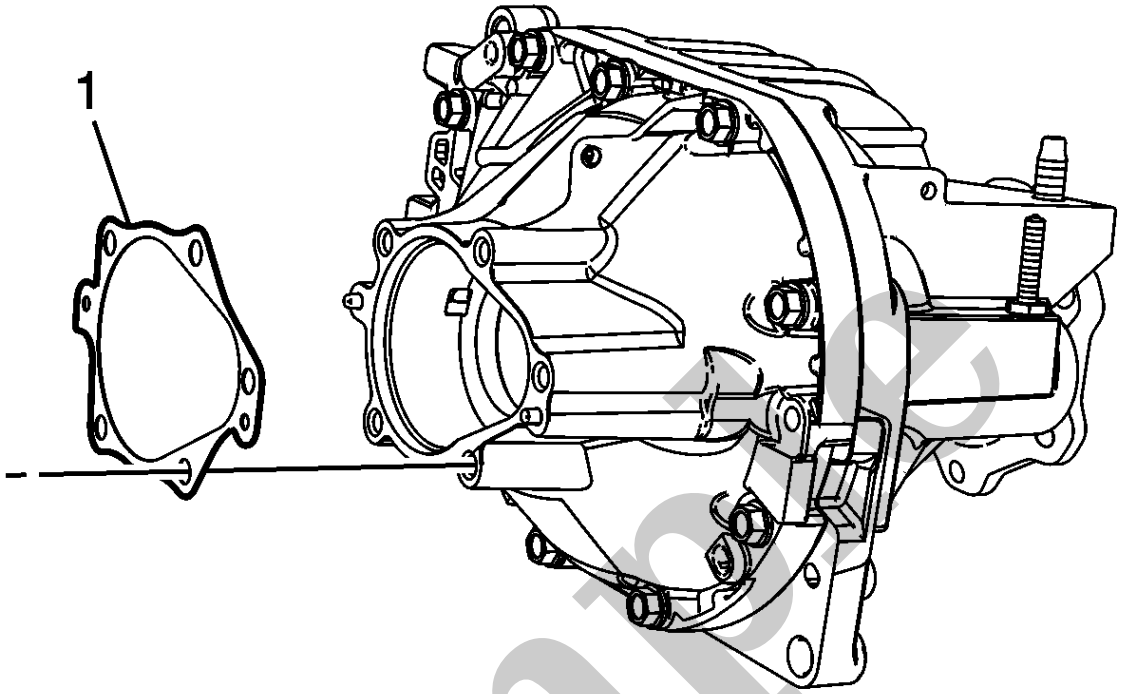
Condition

The backlash is incorrect. The ring gear is too far away from the drive pinion.

Correction

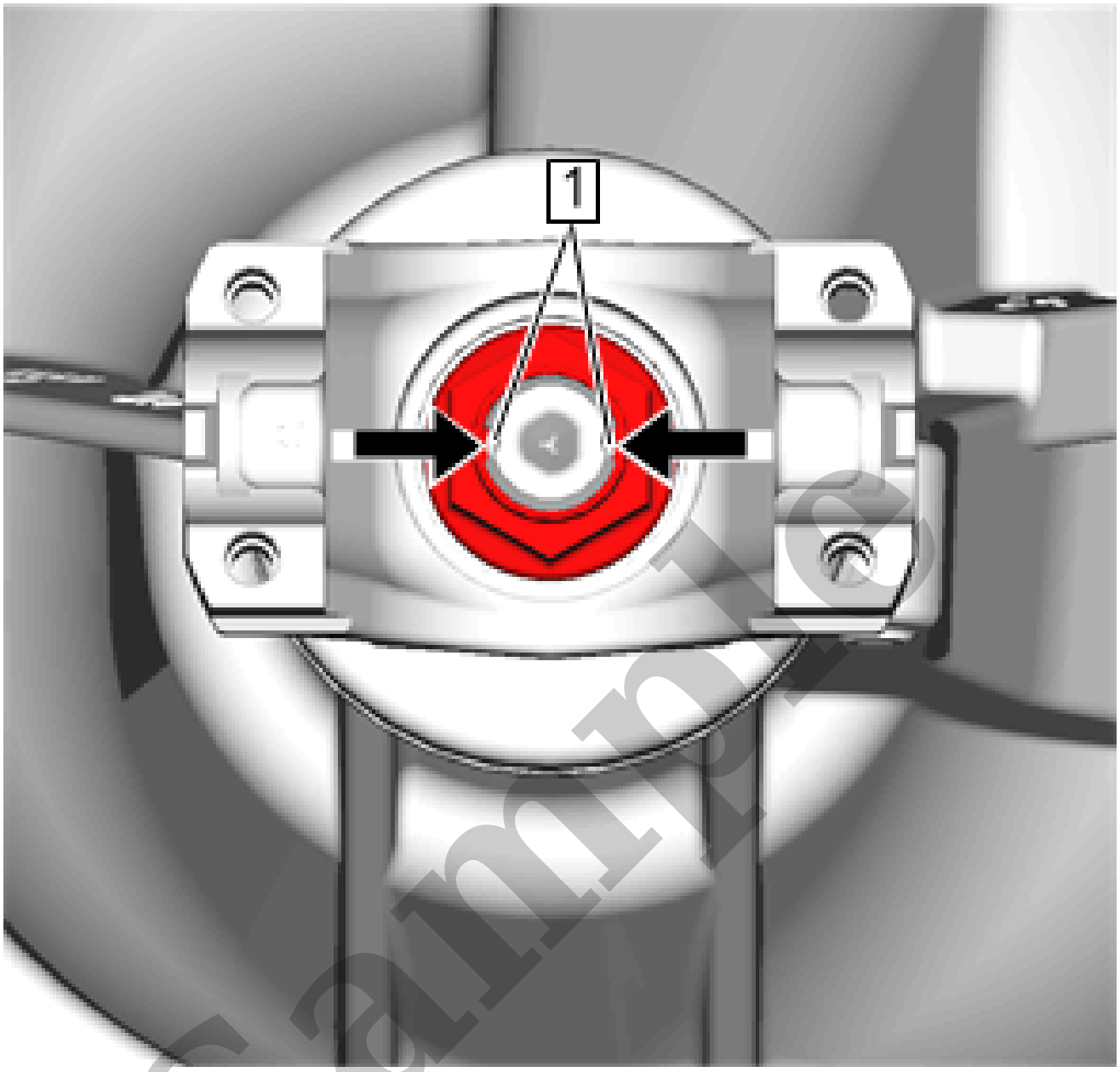
Decrease the backlash. Move the ring gear closer to the drive pinion by adjusting the side bearing adjuster sleeves. Refer to Backlash Inspection and Adjustment.

Drive Side Toe – Coast Side Toe Contact Pattern



6.

Remove the inner axle housing to differential carrier gasket (1).

5. 

   Use a hammer and punch to stake two sides of the drive pinion nut lip to the corresponding grooves (1) in the drive pinion gear.

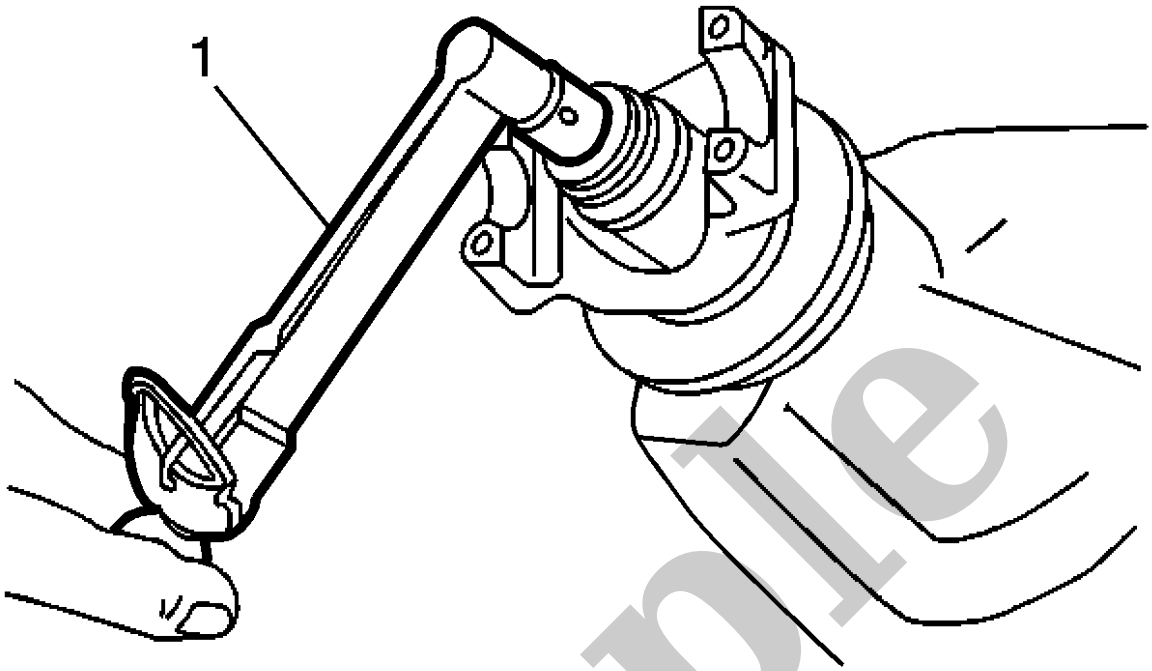
6. Install the differential assembly, if necessary.

7. Support the differential assembly in order to prevent the differential assembly from falling out of the axle housing.

8. **NOTE**

   Note

   DO NOT force the ring gear into contact with the drive pinion.



7.

CAUTION

Caution

Refer to Fastener Caution.

NOTE

Note

Compare this measurement with the rotating torque recorded during removal.

Using an inch pound torque wrench and tightening in small increments, measure the rotating torque of the pinion until the reading ***0.40–0.57 N·m (3–5 lb in)*** greater than the rotational torque noted at removal.

YOUR CURRENT VEHICLE

OnStar Button LED Malfunction

OnStar Button LED Malfunction

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.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Control Terminal 6	1	1	2	—
Control Terminal 7	1	1	2	—
Ground	—	1	—	—

1. OnStar® Indicator Inoperative
2. Indicator Illuminated At All Times

Circuit Description

The OnStar® status Indicators are located in the button assembly. The green indicator is illuminated when the system is ON and operating normally. When the green indicator is green and flashing, it is an indication that a call is in progress. When the red indicator is illuminated, a system malfunction is present. In the event there is a system malfunction and the OnStar® system is still able to make a call, the Indicator will flash red

YOUR CURRENT VEHICLE

DTC B124C

DTC B124C

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 B124C	USB 2 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
B+	B124C, 1, 3	B124C, 1, 2	—	—
USB Cable – USB receptacle X2	B124C, 1	B124C, 1	B124C, 1	—
USB Cable – USB receptacle X3	4	4	4	—
Ground	—	1	—	—