



Service Bulletin

Bulletin No.: 23-NA-003

Date: June, 2023

TECHNICAL

Subject: Noise from the Rear Axle Area When Turning

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Colorado	2022	2022				
GMC	Canyon						

Involved Region or Country	North America, Korea
Condition	Some customers may comment that a grinding noise can be heard from the rear axle when turning.
Cause	This condition may be caused by an out-of-spec axle shaft or axle housing on the Left Hand (LH) side of the vehicle. – Rear Parking Brake Anchor Backing Plate (Dust Shield) can be found rubbing into the brake rotor.
Correction	Diagnose and repair condition following the appropriate steps in the Service Procedure below.

Important: Service agents must comply with all International, Federal, State, Provincial, and/or Local laws applicable to the activities it performs under this bulletin, including but not limited to handling, deploying, preparing, classifying, packaging, marking, labeling, and shipping dangerous goods. In the event of a conflict between the procedures set forth in this bulletin and the laws that apply to your dealership, you must follow those applicable laws.

Service Procedure

Perform Dust Shield Adjustment

- Remove the rear calipers from the caliper brackets. *Brake Caliper Replacement in SI.*
- Push in axle shaft all the way by pushing on the rotor face.
- Determine if the rotor is contacting the dust shield.
 - If the rotor is contacting the dust shield, proceed to step #4.
 - If the rotor is not contacting the dust shield, proceed to *Identifying Out of Spec Axle Shaft or Housing*, in this bulletin.
- Remove the rear rotor and inspect for damage. Refer to *Rear Brake Rotor Replacement in SI.*
⇒ If required, Install new rear rotor only if found damaged.

Important: If required, carefully grind down the extruded edge of the dust shield to ensure the dust shield edge does not contact the brake rotor.

- With the dust shield exposed, adjust and reposition the dust shield as deemed necessary to prevent the inner extruded edge from contacting the brake rotor.
- Install the original or new rear rotor. Refer to *Rear Brake Rotor Replacement in SI.*
- Verify that the rotor is not contacting the dust shield.
- Lower vehicle and test drive vehicle to ensure that grinding noise has ceased.

Note: If adjusting the dust shield does not fix the issue, proceed to *Identifying Out of Spec Axle Shaft or Housing*.

Service Procedure

Identifying Out of Spec Axle Shaft or Housing

- Remove the rear axle shaft. Refer to *Rear Axle Shaft Replacement in SI.*
- With the rear axle shaft removed, measure the axle shaft from the outer edge of the brake flange to the end of the splines.
 - If the LH axle shaft measurement is 822.9 +/-0.75 mm (xx in +/- in), the axle shaft is within specification. Proceed to step #3.
 - If the axle shaft is out of specification, replace with a new axle shaft. Proceed to step #4.

3. Measure the axle housing from the outer edge of the tube flange to the center of the of the spreader hole.
 - If the LH axle housing measurement is 577.975 +/- 0.76 mm (xx in +/- in), the axle housing is within specification. Proceed to step 4.
 - If the axle housing is out of specification, replace the axle housing. Refer to *Rear Axle Housing Replacement in SI*. After replacing the axle housing, proceed to step #4.
4. Install new rear axle shaft. Refer to *Rear Axle Shaft Replacement in SI*.
5. Install original or new rear brake rotor (replace with a new rotor if significant damage occurred). Refer to *Rear Brake Rotor Replacement in SI*
6. Lower the vehicle and test drive to ensure the grinding has ceased.

Parts Information

Note: Only select the parts that coincide with the repair performed. Replace the parts according to the vehicles VIN and build RPOs.

Causal Part	Description	Part Number	Qty
X	SHAFT-R/AXL	23273417	1
X	SHAFT-R/AXL	23273416	1
X	SHAFT-R/AXL	84401851	1
X	SHAFT-R/AXL	84401850	1
X	SHAFT-R/AXL	23490378	1
X	SHAFT-R/AXL	23490377	1
X	HOUSING ASM-R/AXL	84656746	1
X	HOUSING ASM-R/AXL	84656745	1
X	HOUSING ASM-R/AXL	84379386	1
N/A	ROTOR-RR BRK	84309171	1
N/A	SHIELD-PARK BRK ACTR SPH	84466886	1
N/A	SHIELD-PARK BRK ACTR SPH	84466885	1
N/A	FLUID, DIFF	Refer to EPC	As Required

Warranty Information

Note: Only select the labor operation that coincides with the repair performed.

For vehicles repaired under the Powertrain coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
3088018*	Rear Backing Plate Contact Validation	0.6 hr
Add	Rear Axle Shaft Measurement and/or Replacement (Base)	0.6 hr
Add	Rear Axle Shaft Measurement and/or Replacement (w/ZR2)	0.5 hr
Add	Rear Axle Housing Measurement and/or Replacement	4.8 hr
Add	Rear Parking Brake Anchor Backing Plate (Dust Shield) Replacement	1.0 hr
*This is a unique Labor Operation for Bulletin use only.		

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