



# Service Bulletin

Bulletin No.: 20-NA-156

Date: November, 2020

## TECHNICAL

**Subject:** Rear Axle Clunk

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Colorado	2015	2021	-	-	-	-
GMC	Canyon						

<b>Involved Region or Country</b>	North America and Korea
<b>Condition</b>	Some customers may comment that a clunking noise can be heard from the rear axle area when driving over railroad tracks and/or entering or exiting parking lots and driveways.
<b>Cause</b>	This condition may be caused by excessive axle shaft end play.
<b>Correction</b>	<p>With the aid of an assistant, apply the brake pedal while another technician lightly shake the vehicle with a lateral force to the bed of the truck near the tail lamp area.</p> <ul style="list-style-type: none"> <li>If a clunk noise still persists while the brake is applied, inspect the leaf spring shackle for excess movement or debris within leaf spring pads. Refer to 17-NA-394: <i>Squeak, Clunking Type Noise Heard From Rear of Vehicle</i>.</li> <li>If clunk noise only occurs without the brake pedal applied, continue with this procedure for excessive end play within the rear axle.</li> </ul>

### Service Procedure

Perform endplay diagnostics:

1. Lift the vehicle.
2. Remove the rear wheels. Refer to *Tire and Wheel Removal and Installation* in SI.
3. remove the rear calipers. Refer to *Rear Brake Caliper Replacement* in SI.

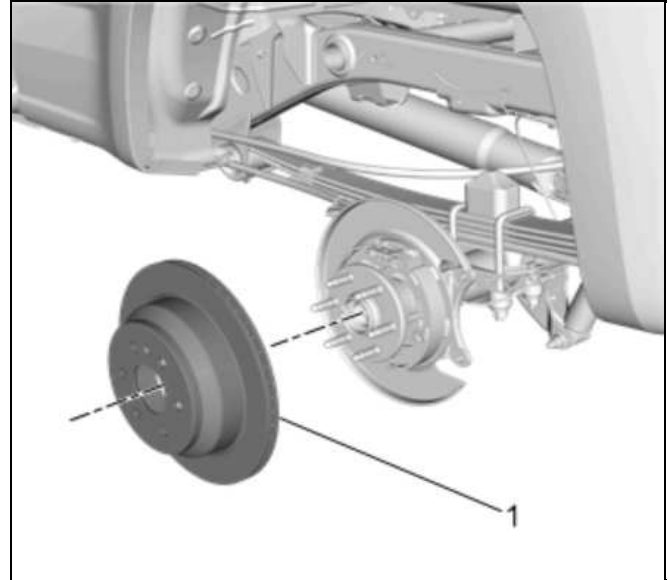


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4. Attach dial indicator to be able to measure perpendicular to center of rotor face.
5. Push in axle shaft all the way by pushing on the rotor face.
6. Zero out dial indicator at this stage.
7. Pull axle shaft outward all the way by pulling on the rotor.
8. Record endplay measurement.
  - If endplay measurement is at 0.32mm (0.0126") or greater, then service C-locks can be installed without interference (exception detailed below).
    - **EXCEPTION** – If it is a G80 Locking Rear Axle, a C-lock can only be applied on the left hand side if it measures 0.57mm (0.0224) endplay or higher. There must be at least 0.25mm (0.010") of endplay on left had side to not damage locker.
  - If endplay is below 0.32mm (0.0126"), Service C-locks may still be installed, however, if the components (axle shaft and differential) are at the low end of the tolerance, interference may occur.
9. Repeat for opposite side.
10. Record endplay measurement.

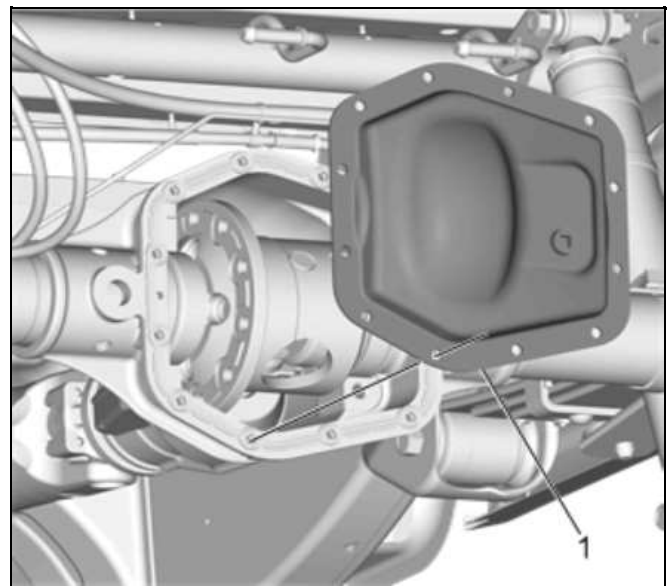
**Note:** You do not need to pull the axle shafts out any further than necessary to remove and replace the C-locks.

- ⇒ If the endplay has been found out of specifications noted above, proceed to the next step.



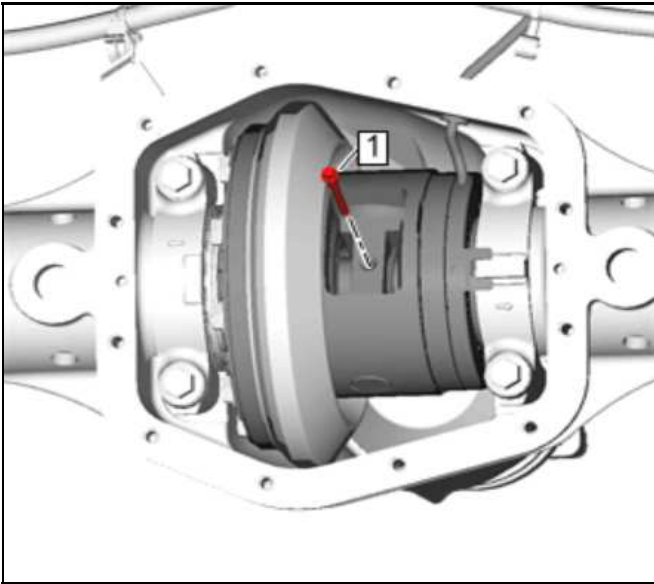
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11. Remove the rear rotors (1). Refer to *Rear Brake Rotor Replacement* in SI.



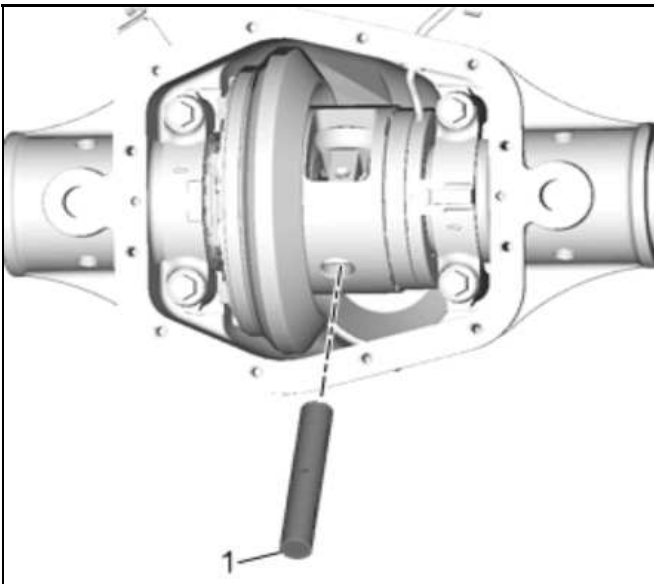
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12. Remove the rear axle housing cover (1). Refer to *Rear Axle Housing Cover Replacement* in SI.



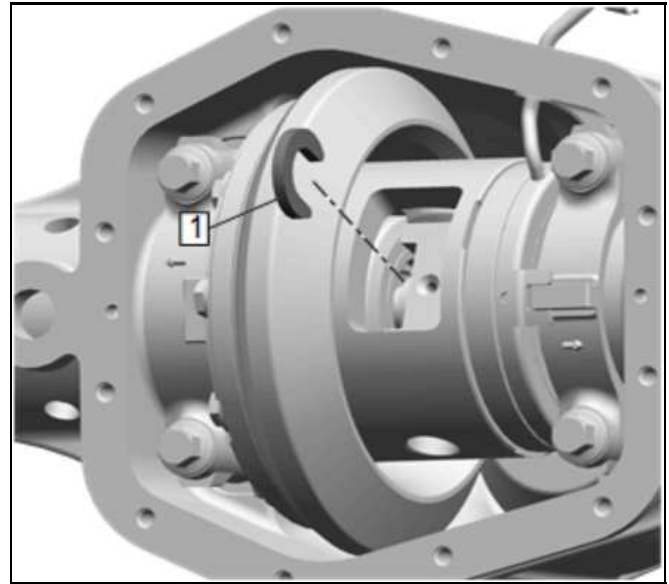
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13. Remove the lock pin bolt (1).



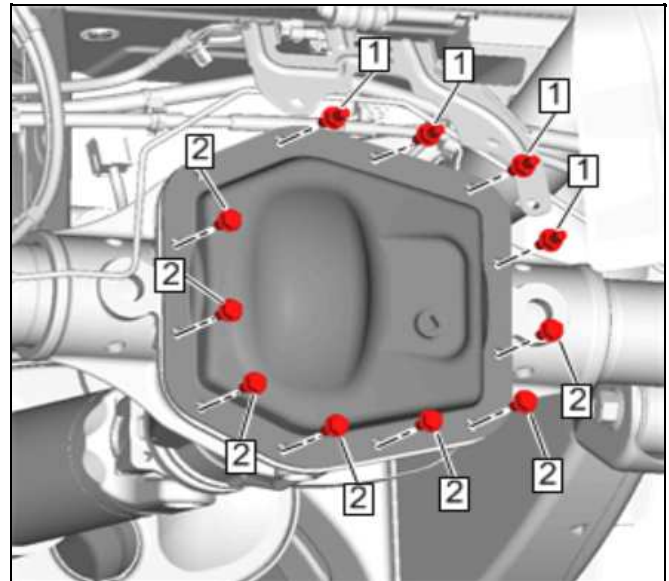
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14. Remove the pin shaft (1).  
 15. Using care not to damage the axle seal, push the axle shaft inwards.



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16. Remove the C-lock (1) from the rear axle.  
 17. Install new C-locks.  
 18. Install pin shaft.  
 ⇒ Tighten pin lock bolt to specifications. Refer to *Fastener Specifications* in SI.



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19. Install the rear axle housing cover. Refer to *Rear Axle Housing Cover Replacement* in SI.  
 ⇒ Tighten new cover bolts (1, 2) to specifications. Refer to *Fastener Specifications* in SI.  
 20. Install the rear brake rotors. Refer to *Rear Brake Rotor Replacement* in SI.  
 21. Install the rear wheels. Refer to *Tire and Wheel Removal and Installation* in SI.  
 22. Lower the vehicle.

## Reference Information:

- ⇒ The production C-locks have a thickness spec of 5.18mm to 5.26mm (0.204" to 0.207")
- ⇒ Service C-locks has a thickness spec between 5.42mm and 5.50mm (0.213" to .216")
- ⇒ All C-clips may have yellow protective coating
- ⇒ If endplay exceeds 1.05mm (0.0413"), the end play is out of spec. Please refer to Service Information for further drive line diagnostic procedures.

## Parts Information

Causal Part	Description	Part Number	Qty
N/A	LOCK-R/AXL SHF (LCV)	84878620	2
N/A	LOCK-R/AXL SHF (LGZ LWN LFX)	84878619	2
N/A	BOLT, R/AXL HSG CVR	11546720	11 (8 for ZR2)
N/A	BOLT, R/AXL HSG CVR (STUD)	11549349	1 (4 for ZR2)
N/A	NUT, WRG HARN BRKT	11546365	1 (4 for ZR2)
N/A	SAE 75W-90 Axle Lubricant	19352759 (Canada 19352760)	2

## Warranty Information

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
3087158*	Diagnose Axle Noise and Replace C-Clips	1.1 hr

\*This is a unique Labor Operation for Bulletin use only.

Version	1
Modified	Released November 05, 2020

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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