



Service Bulletin

Bulletin No.: 22-NA-223


Date: November, 2023

INFORMATION

Subject: Information on Clicking and/or Chattering Noise Coming From the Rear of the Vehicle While Making Tight Turns

| Brand: | Model: | Model Year: | | VIN: | | Engine: | Transmission: |
|-----------|---------------------------------|-------------|------|------|----|----------|---------------|
| | | from | to | from | to | | |
| Chevrolet | 3500/4500 Medium Duty (LCF) | 2016 | 2024 | | | L96/L8T | |
| | 3500/4500 Medium Duty (LCF) | 2020 | 2024 | | | 4HK1 | |
| | 4500HD/4500XD Medium Duty (LCF) | 2017 | 2024 | | | 4HK1 | |
| | 5500HD/5500XD Medium Duty (LCF) | 2017 | 2024 | | | 4HK1 | |
| | 6500XD Medium Duty (LCF) | 2019 | 2024 | | | 4HK1/LCB | |

| | |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Involved Region or Country | North America |
| Additional Options (RPOs) | G86: AXLE-LIMITED SLIP |
| Condition | Some customers with N-series vehicles may comment that an audible clicking or chattering noise coming from the rear of the vehicle while making tight turns. |
| Cause | <p>This condition may be caused by incorrect axle fluid having been used during the last scheduled maintenance or in a previous repair.</p> <ul style="list-style-type: none"> – The condition can also result from delayed or skipped maintenance resulting in degradation of axle fluid. |

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Information</p> | <div style="text-align: right;">6182582</div>  <p>Refer to the graphic above to identify a limited slip differential or check the vehicle build in IVH (Investigate vehicle History) for Option Code G86.</p> <p>– LSD Stamp Codes</p> <ul style="list-style-type: none"> • B7 • D0 • D8 • D9 • H0 • H9 <p>To resolve this problem, take the following steps/actions.</p> <ol style="list-style-type: none"> 1. Replace the differential gear oil with a commercially-available gear oil (SAE80W-90 GL-5, SAE90 GL-5) and add 20oz of limited slip differential lubricant additive (P/N 88900330 (quantity of five (5), 4oz bottles). <i>Refer to Fluid and Lubricant Recommendations in SI.</i> 2. Road test the vehicle for at least 10 miles by making eight to ten tight left and right turns, such as going around a corner, to ensure the limited slip is activated and to determine if there is no longer any audible clicking or chattering noise coming from the rear of the vehicle during tight turns. 3. If the condition persists, technicians are to call the Technical Assistance Center (TAC) |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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.

| | |
|----------|---------------------------------------------------------------------------------------------------|
| Version | 2 |
| Modified | Released November 02, 2022 Revised November 16, 2023 – Added 2024 Model Year and Engine RPO's. |

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.



WE SUPPORT VOLUNTARY
TECHNICIAN
CERTIFICATION