



TECHNICAL SERVICE BULLETIN

Classification:

PD23-001B

Reference:

NTB23-023B

Date:

February 19, 2025

FLUID LEAK FROM THE FRONT DIFFERENTIAL CASE ACTUATOR MOTOR PLASTIC THREADS

This bulletin has been amended. See **AMENDMENT HISTORY** on the last page.
Please discard previous versions of this bulletin.

APPLIED VEHICLES: 2016-2024 Titan/Titan XD (A61)
APPLIED DRIVETRAINS: 4WD

SERVICE INFORMATION

If the front differential has a fluid leak coming from the actuator motor plastic threads (Figure 1):

- a. Place an alignment mark on the splined actuator body and the gear carrier (Figure 2).
- b. Remove the actuator and thoroughly clean the threads, making sure not to allow RTV to fall into the differential case.
- c. Once clean, apply Three Bond sealant to the threads, and then reinstall the actuator motor, making sure to line up the alignment marks.
- d. Check the front differential gear oil level and top to specification.
 - Refer to the **ESM: TRANSMISSION & DRIVELINE > DRIVELINE > FRONT FINAL DRIVE: MA235/MA210 > PERIODIC MAINTENANCE > FRONT DIFFERENTIAL GEAR OIL**

DO NOT replace the front differential due to a fluid leak from the actuator motor plastic threads unless there has been consequential damage due to fluid loss (bearing failure or gear noise) to the front differential.

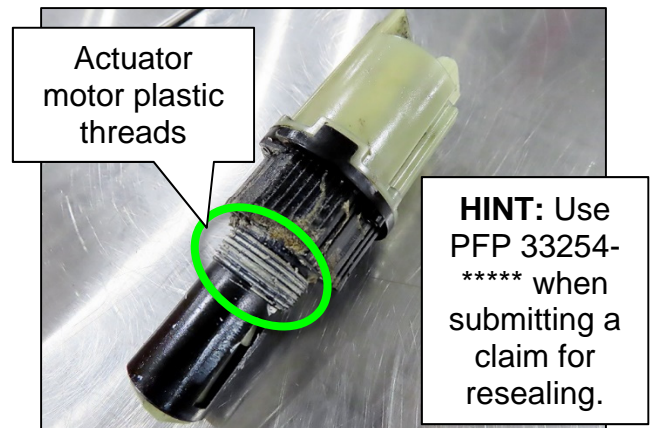


Figure 1

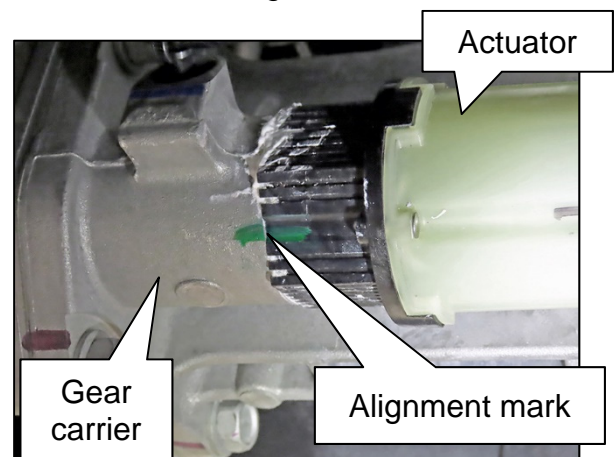


Figure 2

Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. **NOTE:** If you believe that a described condition may apply to a particular vehicle, **DO NOT** assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
March 14, 2023	NTB23-023	Original bulletin published
November 4, 2024	NTB23-023A	APPLIED VEHICLES and SERVICE INFORMATION revised
February 19, 2025	NTB23-023B	HINT added to Figure 1

