



TECHNICAL SERVICE BULLETIN

Classification: RA23-001	Reference: NTB23-051	Date: June 15, 2023
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VIBRATION AND/OR NOISE FROM THE REAR OF THE VEHICLE WHEN TURNING

APPLIED VEHICLES: 2021-2023 Rogue (T33)
APPLIED DATES: VINs starting with 5N1 – built on or after February 1, 2022
VINs starting with JN8 – built on or after April 26, 2021
APPLIED DRIVETRAINS: AWD

IF YOU CONFIRM

A binding feeling, vibration, and/or noise coming from the rear end when turning at low speed,

AND

The issue is resolved by unplugging the Actuator Assembly (AWD Actuator) on the rear Final Drive Unit.

ACTION

1. Remove the Electro-hydraulic Coupling Assembly (AWD Coupler).
2. Clean the Coupling Oil Tank.
3. Replace the Electro-hydraulic Coupling Assembly (AWD Coupler).

IMPORTANT: The purpose of **ACTION** (above) is to give you a quick idea of the work you will be performing. You **MUST** closely follow the entire **SERVICE PROCEDURE** as it contains information that is essential to successfully completing this repair.

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.

SERVICE PROCEDURE

Remove the AWD Coupler

1. Perform **Adjustment Before Removal** of the AWD Coupler.
 - Refer to the **ESM: TRANSMISSION & DRIVELINE > DRIVELINE > REAR FINAL DRIVE: R145 > REMOVAL AND INSTALLATION > ELECTRO-HYDRAULIC COUPLING > Adjustment > ADJUSTMENT BEFORE REMOVAL**
2. Remove the AWD Coupler.
 - Refer to the **ESM: TRANSMISSION & DRIVELINE > DRIVELINE > REAR FINAL DRIVE: R145 > REMOVAL AND INSTALLATION > ELECTRO-HYDRAULIC COUPLING > Removal and Installation > REMOVAL**

Clean the Coupling Oil Tank

3. Remove the fill plug from the side of the coupling oil tank cover.

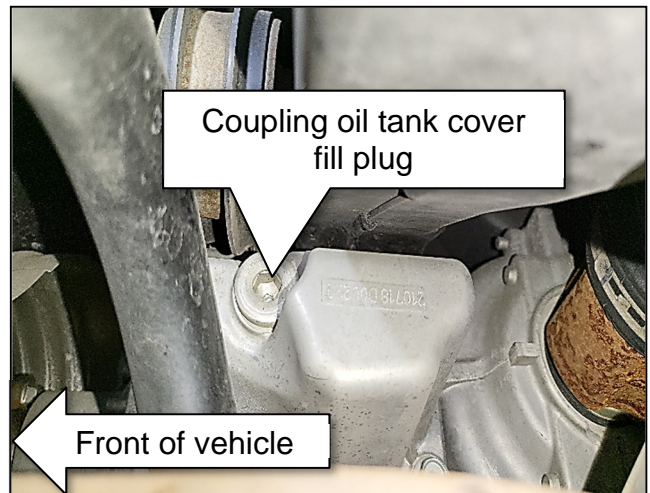


Figure 1

4. Spray brake cleaner into the coupling oil tank until clean solvent is running out of the AWD Coupler fluid hole.

IMPORTANT: Allow the brake cleaner to fully evaporate before proceeding to step 5 on page 3.

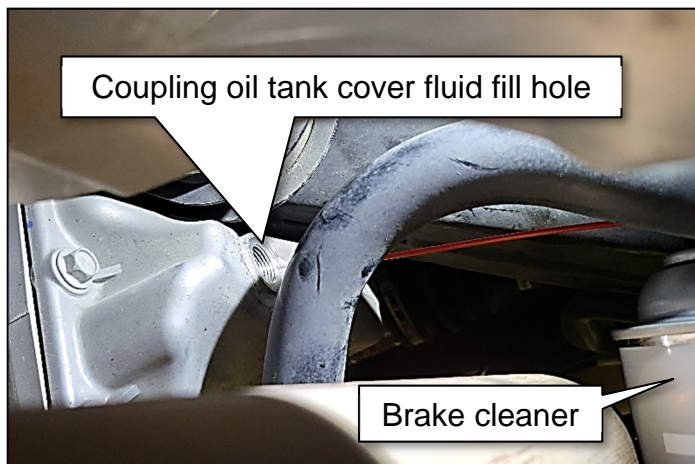


Figure 2

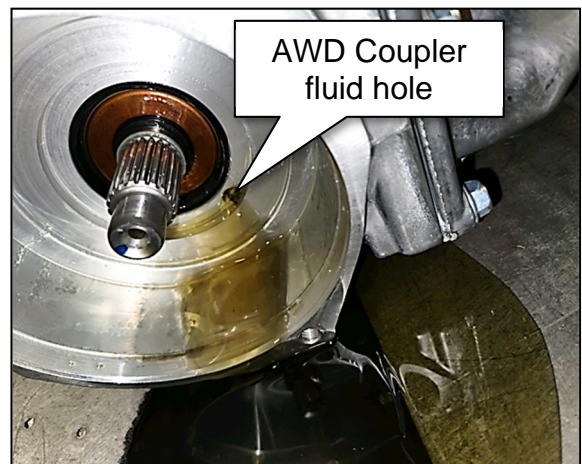


Figure 3

Install the New AWD Coupler

5. Install the new AWD Coupler.

- Refer to the ESM: **TRANSMISSION & DRIVELINE > DRIVELINE > REAR FINAL DRIVE: R145 > REMOVAL AND INSTALLATION > ELECTRO-HYDRAULIC COUPLING > Removal and Installation > INSTALLATION**

IMPORTANT: Only use the fluid listed in the **PARTS INFORMATION**. The fluid has a tendency to have clutch additive separate during long storage, it is critical to shake the fluid for 30-60 seconds before using.

6. Perform **Adjustment After Installation** of the AWD Coupler.

- Refer to the ESM: **TRANSMISSION & DRIVELINE > DRIVELINE > REAR FINAL DRIVE: R145 > REMOVAL AND INSTALLATION > ELECTRO-HYDRAULIC COUPLING > Adjustment > ADJUSTMENT AFTER INSTALLATION**

IMPORTANT: The **AIR BLEEDING AND INITIALIZE OIL DETERIORATION LEVEL** process will need to be performed several times until there is no noise from the Final Drive Unit.

7. Record the Final Drive Unit manufacture date on the Repair Order.

HINT:

- The manufacture date is located in the casting stamp located on the rear passenger (RH) side of the Final Drive Unit.
- For example, Figure 4 has a casting stamp of FF210817B. The manufacture date is 08-17-2021.

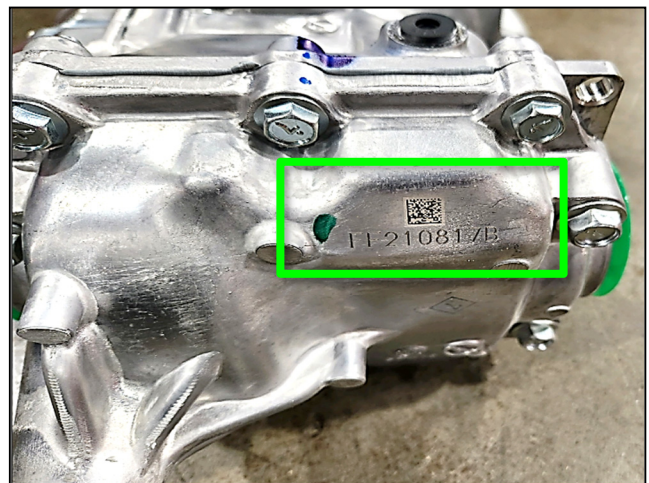


Figure 4

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
COUPLING ASSY-ELECTRICAL	38760-6RE3A	1
LIMITED SLIP COUPLER TRANSMISSION FLUID 12-301 (1) (2)	999MP-LSCTRF	As needed

- (1) Order this item through the Nissan Maintenance Advantage program: Phone 877-NIS-NMA1 (877-647-6621). Website order via link on the dealer portal; www.NNAnet.com and click on the "Maintenance Advantage-Tire/Battery/Chemical" link.
- (2) This fluid has a tendency to have clutch additive separate during long storage, it is critical to shake the fluid for 30-60 seconds before using.

CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding:

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace AWD Electronic Coupling Assembly & Clean Oil Tank	(1)	LX13AA	ZE	32	1.8

- (1) Reference the electronic parts catalog and use the Electric Coupling (38760-*****) as the Primary Failed Part (**PFP**).

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
June 15, 2023	NTB23-051	Original bulletin published