



# TECHNICAL SERVICE BULLETIN

Classification: AT23-007	Reference: NTB24-017	Date: February 26, 2024
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## FLUID LEAK FROM THE TRANSMISSION INPUT SHAFT SEAL

**APPLIED VEHICLES:** 2019-2023 GT-R (R35)

### IF YOU CONFIRM

Transmission fluid is leaking from the transmission input shaft seal.

### ACTION

Follow the **SERVICE PROCEDURE** in this bulletin to replace the transmission input shaft seal.

**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.

## REQUIRED SPECIAL TOOLS

New or replacement Essential Tools are available from Tech Mate online: [www.techmatetools.com](http://www.techmatetools.com), or by phone: 1-833-397-3493.

When ordering, keep in mind that the tool part number prefix has changed from “J” to “NI”. For example, **J-42738** is now **NI-42738**.

### GT-R – Flange Holder, Input Shaft (NI-53372)

- Each dealer has been previously shipped one (1) GT-R Flange Holder Input Shaft (NI-53372).



Figure 1

### Front Output Shaft Seal Installer (NI-42738)

- Each dealer has been previously shipped one (1) Front Output Shaft Seal Installer (NI-42738).



Figure 2

## SERVICE PROCEDURE

1. Remove the front diffuser.
  - Refer to the ESM: **BODY EXTERIOR, DOORS, ROOF VEHICLE SECURITY > EXTERIOR > REMOVAL AND INSTALLATION > FLOOR SIDE FAIRING > FRONT DIFFUSER > Removal and Installation**
2. Remove the sub-muffler.

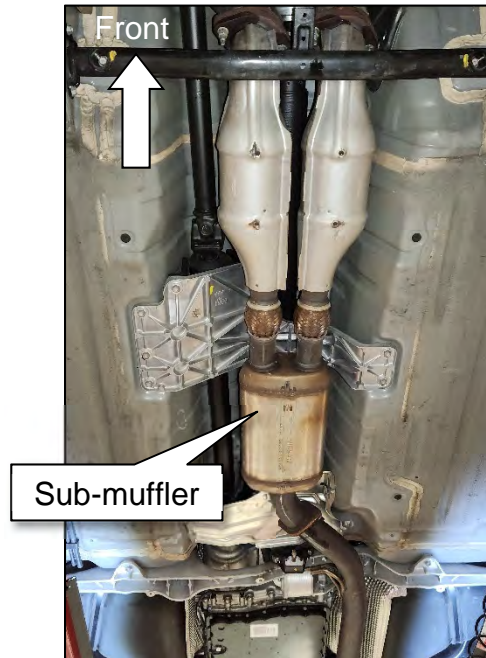


Figure 3

3. Remove the heat shield and the tunnel stay.

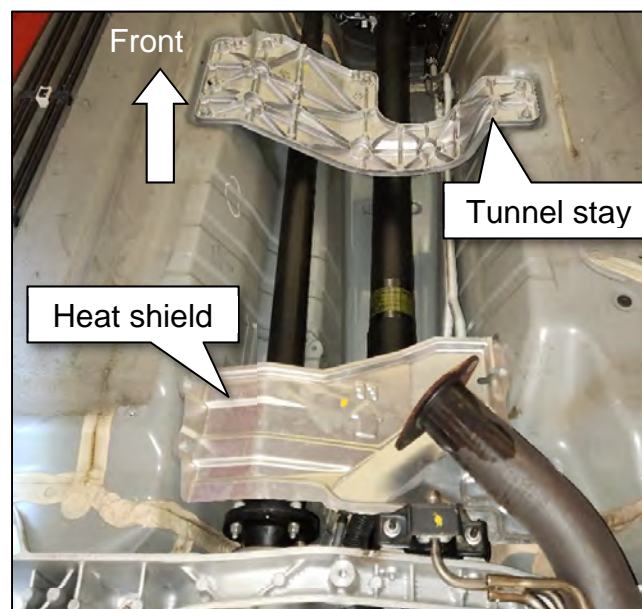


Figure 4

4. Put an alignment mark on the main propeller shaft assembly and the engine output drive.

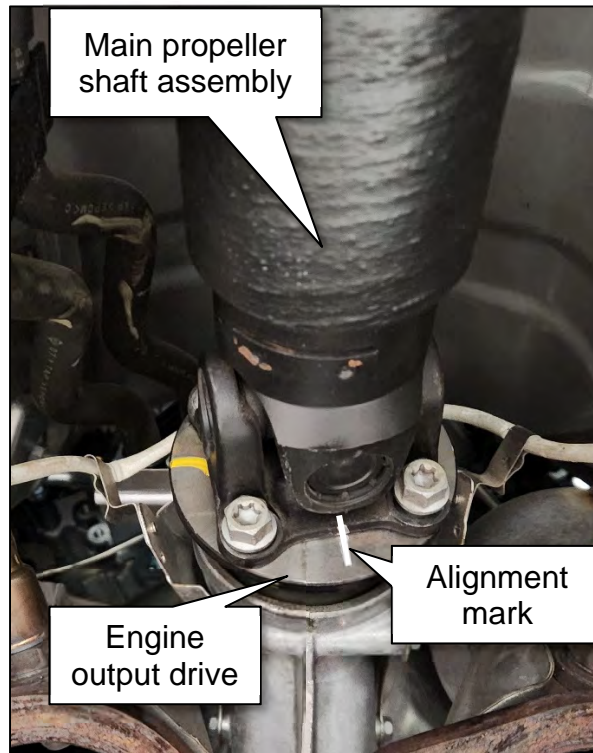


Figure 5

5. Put an alignment mark on the main propeller shaft assembly and the transmission companion flange.

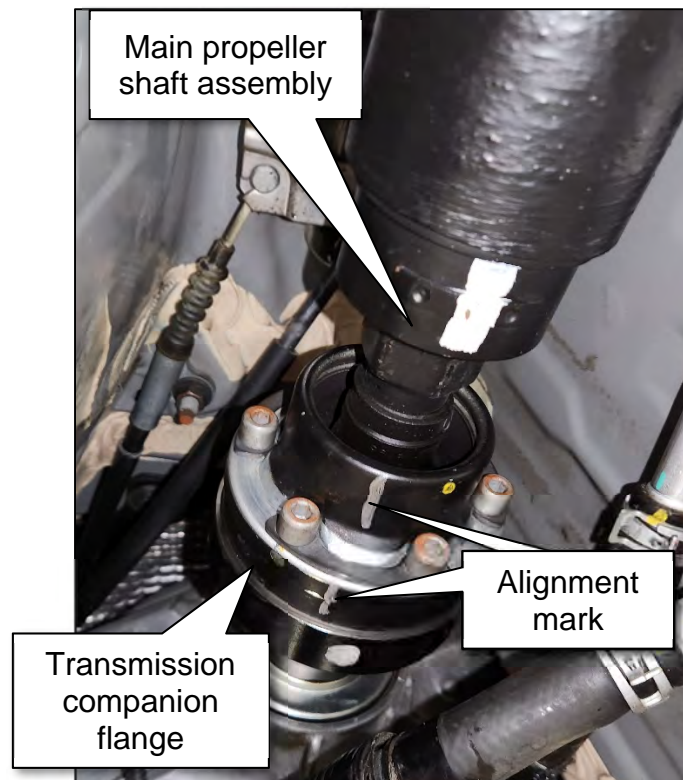


Figure 6



6. Remove the main propeller shaft assembly.
  - Refer to the ESM: **TRANSMISSION DRIVELINE > DRIVELINE > MAIN PROPELLER SHAFT: 2F71A-VL101 > REMOVAL AND INSTALLATION > MAIN PROPELLER SHAFT > Removal and Installation**
7. Put an alignment mark on the transmission input shaft, nut, and transmission companion flange, as shown in Figure 7.

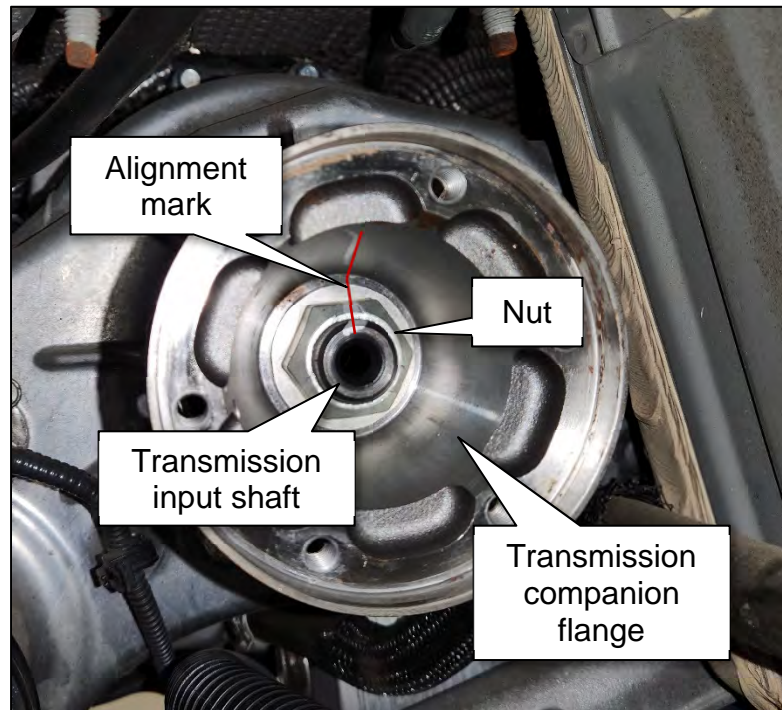


Figure 7

8. Install special tool NI-53372 onto the transmission companion flange, and then snug the four (4) bolts with an Allen® key.

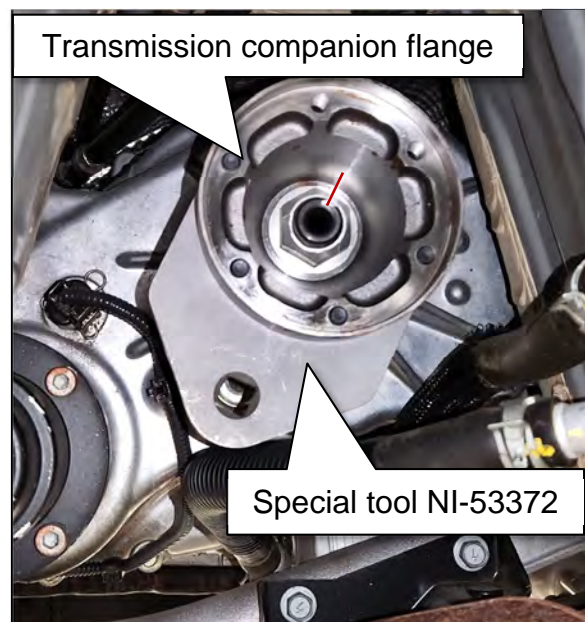


Figure 8

- Place a breaker bar on the special tool in order to hold the transmission companion flange.

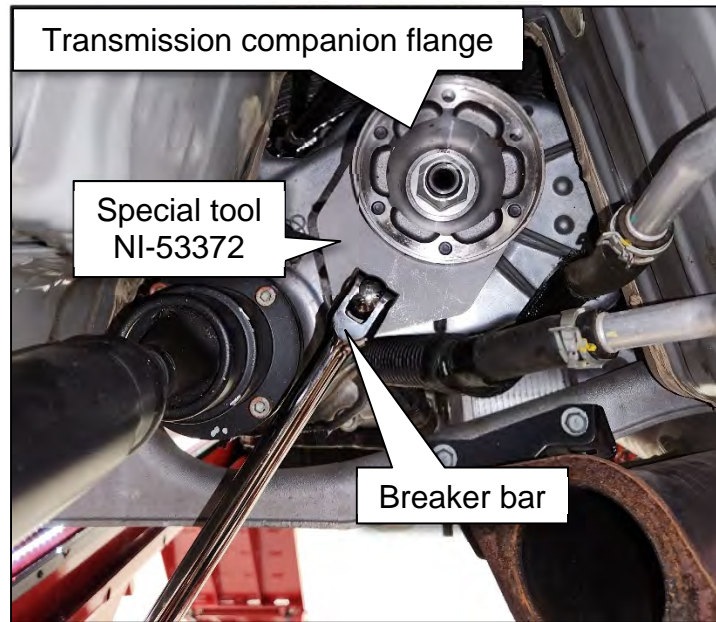


Figure 9

- Remove the transmission companion flange nut.

**IMPORTANT:** Do not allow the breaker bar handle to rest on any part of the underside of the vehicle when removing the transmission companion flange nut.



Figure 10



- 11. Remove the special tool from the transmission companion flange, and then using a suitable puller, remove the transmission companion flange.

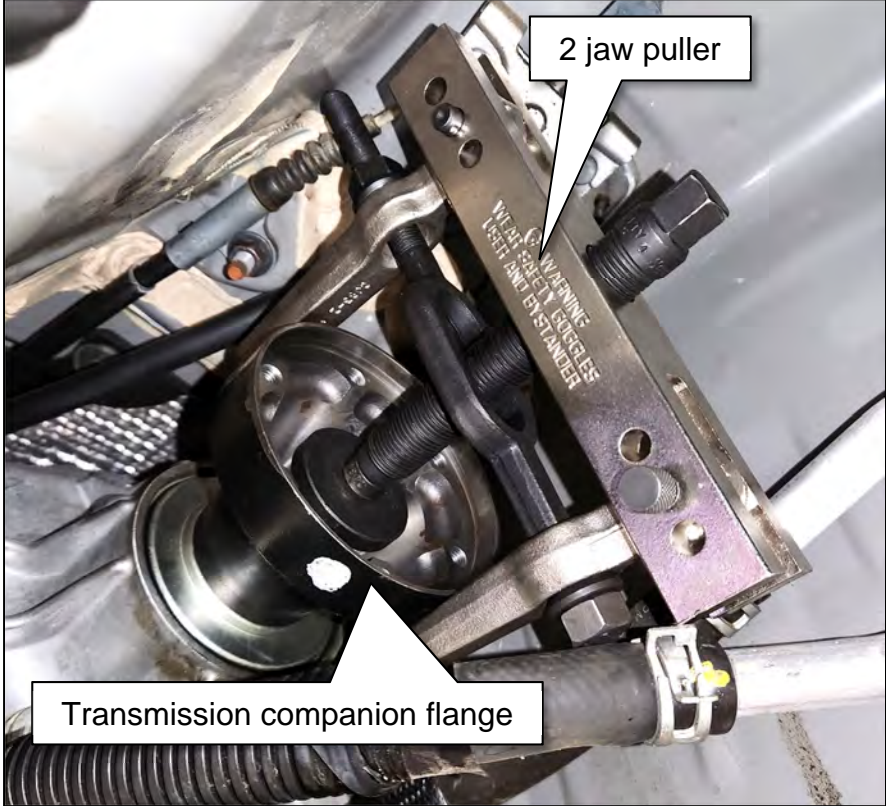


Figure 11

- 12. Using a suitable seal remover tool, remove the transmission input shaft seal.

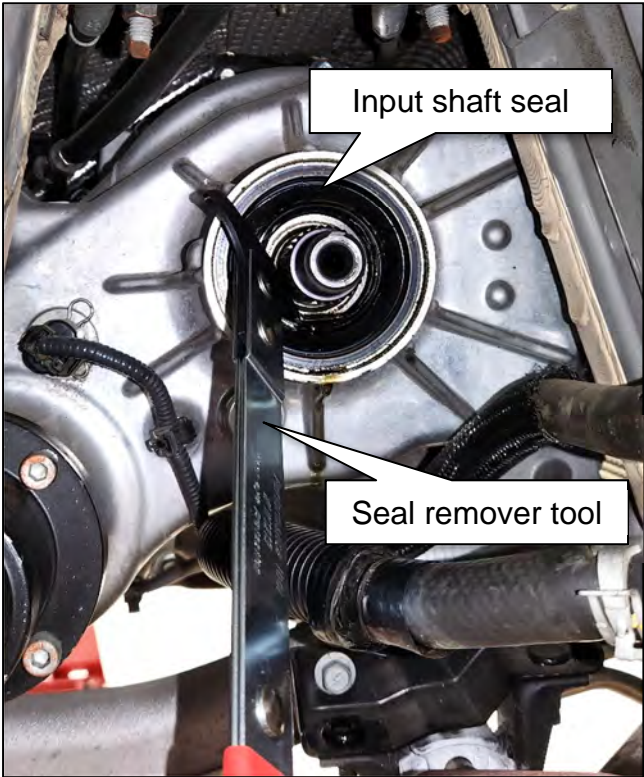


Figure 12

13. Using the Front Output Shaft Seal Installer (NI-42738), install the new input shaft seal from **PARTS INFORMATION**.



Figure 13

14. Install the transmission companion flange on to the transmission input shaft.
- Make sure the alignment mark on the transmission companion flange is aligned with the alignment mark on the transmission input shaft.

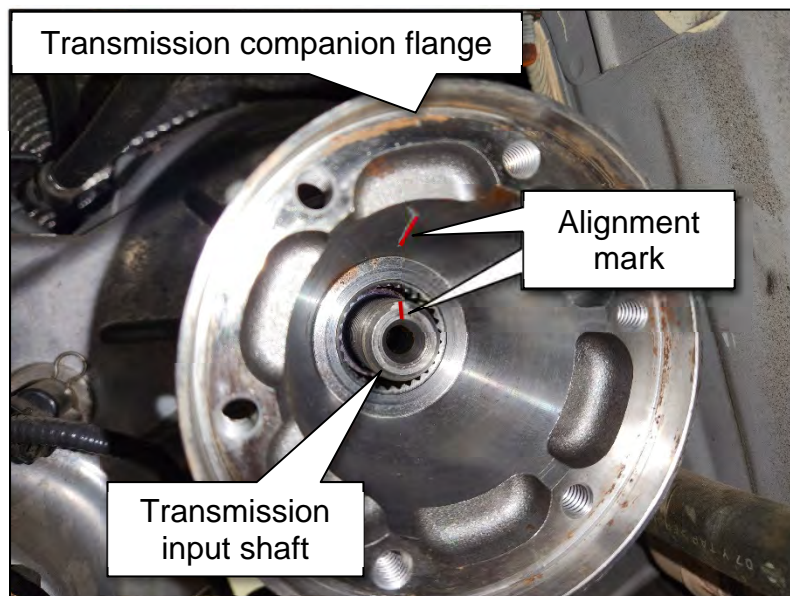


Figure 14



15. Install the transmission companion flange nut.

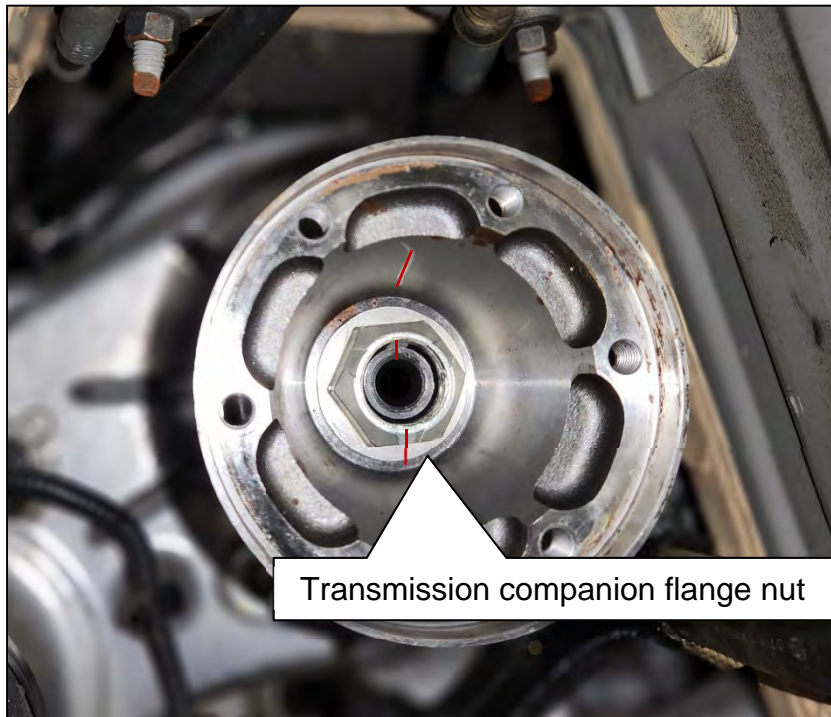


Figure 15

16. Install special tool NI-53372 onto the transmission companion flange, and then snug the four (4) bolts with an Allen® key.

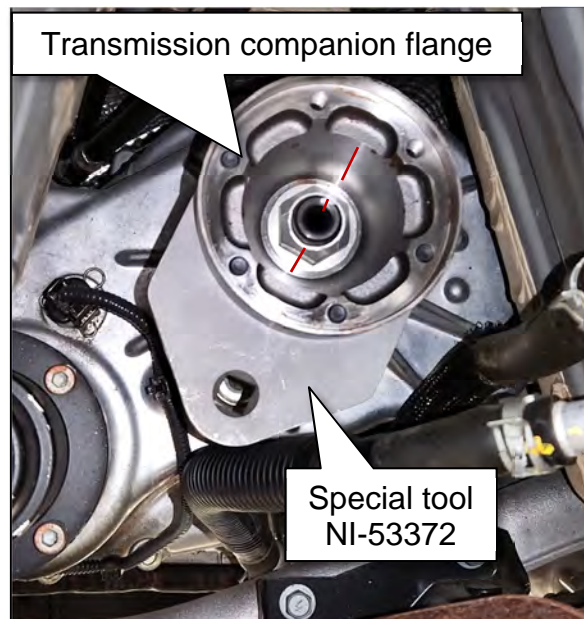


Figure 16

17. Place a breaker bar on the special tool in order to hold the transmission companion flange.

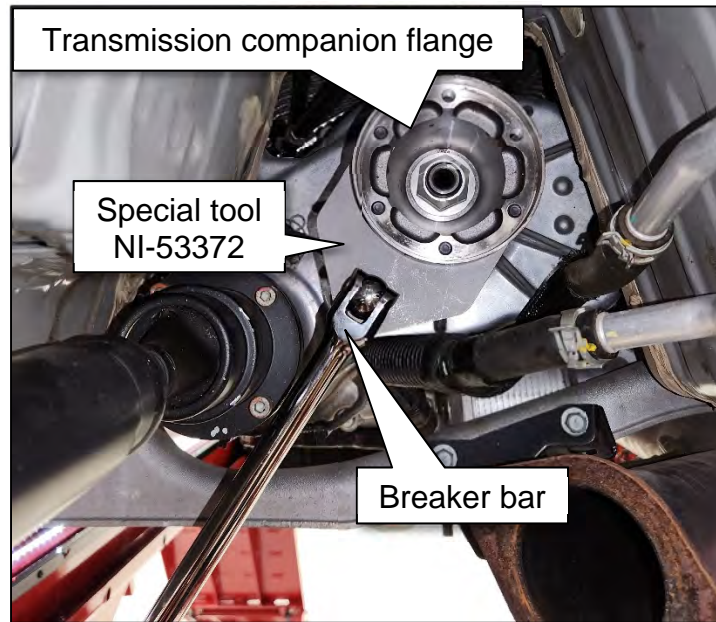


Figure 17

18. Torque the transmission companion flange nut.

**IMPORTANT:** Do not allow the breaker bar handle to rest on any part of the underside of the vehicle when torquing the transmission companion flange nut.

- Transmission companion flange nut torque: 147 N•m (15 kg-m, **108 ft-lb**)



Figure 18

19. After the transmission companion flange nut has been torqued, compare the alignment mark on the transmission companion flange to the alignment mark on the transmission companion flange nut.

**IMPORTANT:** If the alignment mark on the transmission companion flange nut is not perfectly aligned with the alignment mark on the transmission companion flange (Figure 19):

- Continue to tighten the transmission companion flange nut until all the alignment marks are aligned (Figure 20).
- Do not attempt to loosen the transmission companion flange nut in order to get the alignment marks to be aligned.
- All the alignment marks must be within 3° of each other.

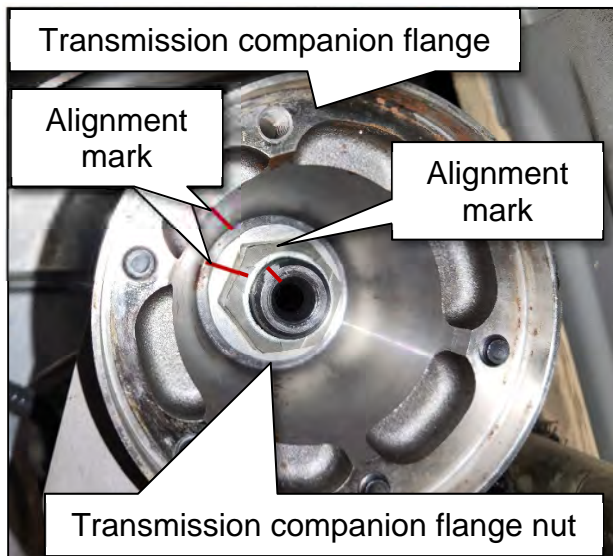


Figure 19



Figure 20

20. Remove the special tool NI-53372 from the transmission companion flange.

21. Install the main propeller shaft assembly.

- Refer to the ESM: **TRANSMISSION DRIVELINE > DRIVELINE > MAIN PROPELLER SHAFT: 2F71A-VL101 > REMOVAL AND INSTALLATION > MAIN PROPELLER SHAFT > Removal and Installation**



22. Install the heat shield and the tunnel stay.

- Tunnel stay bolt torque: 55 N•m (5.6 kg-m, **41 ft-lb**)

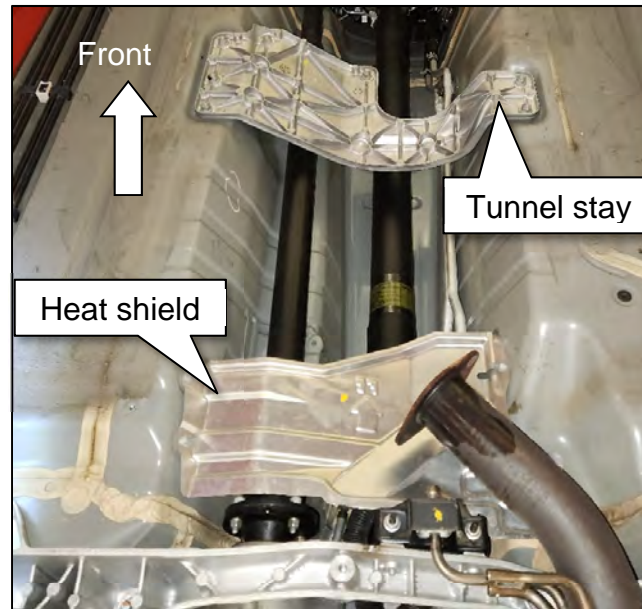


Figure 21

23. Install the sub-muffler.

- Sub-muffler to exhaust manifold nut torque: 52.5 N•m (5.4 kg-m, **39 ft-lb**)
- Sub-muffler to main muffler assembly nut torque: 34.8 N•m (3.5 kg-m, **26 ft-lb**)

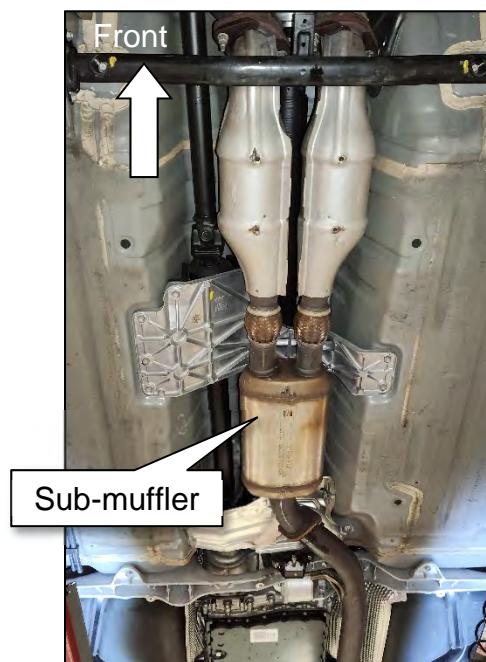


Figure 22

24. Install the front diffuser.

- Refer to the ESM: **BODY EXTERIOR, DOORS, ROOF VEHICLE SECURITY > EXTERIOR > REMOVAL AND INSTALLATION > FLOOR SIDE FAIRING > FRONT DIFFUSER > Removal and Installation**

**PARTS INFORMATION**

DESCRIPTION	PART NUMBER	QUANTITY
SEAL – INPUT SHAFT	38189-JF00B	1
GASKET – EXHAUST	20692-JF00A	1
GASKET – EXHAUST	20692-24U00	2
NUT – FIX, EXHAUST TUBE	20602-41G0A	4
BOLT – FIX, PROPELLER SHAFT	11298-4M418	7
BOLT – FIX, PROPELLER SHAFT	37120-CG10A	4
BOLT – FIX, PROPELLER SHAFT	37120-JD00B	4
BOLT – FIX, PROPELLER SHAFT	37120-JF00A	6
BOLT – FIX, PROPELLER SHAFT	37120-JF01A	4
NUT – FLANGE, HEX	08918-3401A	2
NUT – FIX, PROPELLER SHAFT	01223-00041	4
NUT – FIX, PROPELLER SHAFT	37171-7S00A	4
WASHER – LOCK	37121-0E605	3

**CLAIMS INFORMATION**

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
RPL Transmission Input Shaft Seal	(1)	HX10AA	ZE	53	2.1

- (1) Reference the **PARTS INFORMATION** table above and use the Input Shaft Seal (38189-\*\*\*\*\*) as the Primary Failed Part (**PFP**).

**AMENDMENT HISTORY**

PUBLISHED DATE	REFERENCE	DESCRIPTION
February 26, 2024	NTB24-017	Original bulletin published