

TECHNICAL SERVICE BULLETIN

Classification: TF16-002E	Reference: ITB17-001E	Date: December 13, 2023
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FLUID LEAK CAUSED BY TRANSFER ASSEMBLY RIGHT SIDE DRIVE SHAFT OIL SEAL

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

- APPLIED VEHICLES:** 2019-2024 QX50 (J55)
2022-2024 QX55 (FJ55)
2014-2020 QX60 (L50)
2014-2017 QX60 Hybrid (L50H)
- APPLIED DRIVELINES:** AWD only

SERVICE INFORMATION

If fluid is leaking from the front passenger (RH) side of the transfer assembly, refer to the information in this bulletin.

- The fluid leak is NOT caused by the dust seal shown in Figure 1.
- This repair does NOT require transfer assembly removal from the vehicle.

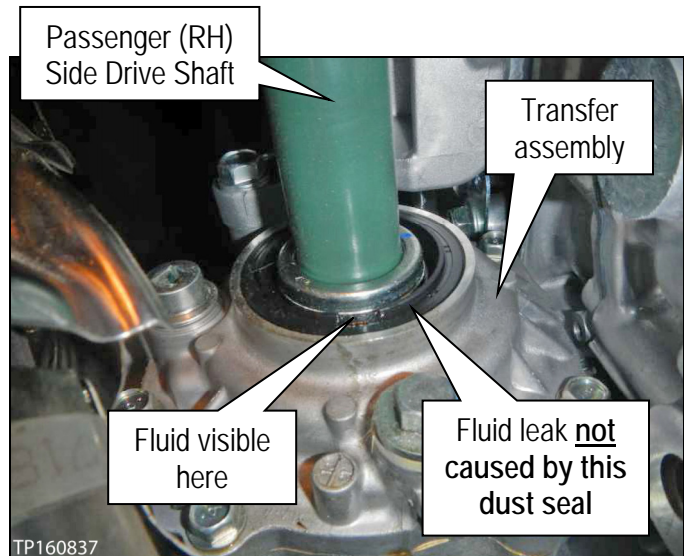


Figure 1

1. **DO NOT REPLACE** the transfer assembly.
2. Replace the drive shaft oil seal and the dust seal.
 - Refer to ITB21-023 for drive shaft oil seal and dust seal replacement.

Infiniti 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 Infiniti retailer to determine if this applies to your vehicle.

REQUIRED SPECIAL TOOL(S)

New or replacement Essential Tools are available from Tech•Mate online: 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-52469-1 is now NI-52469-1.



Figure 2



Figure 3

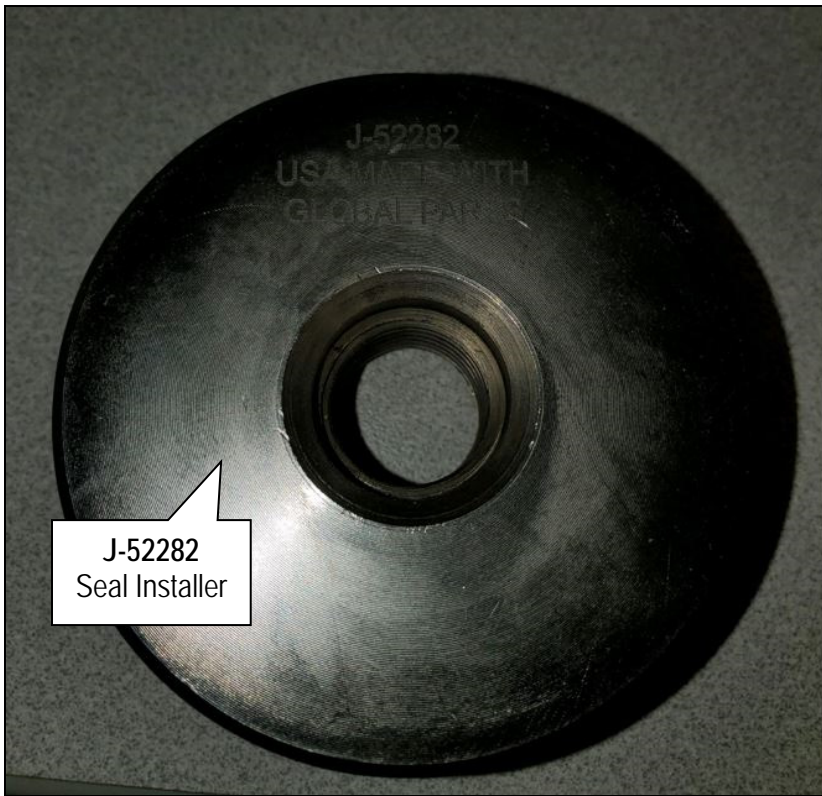


Figure 4



Figure 5

TY21C Transfer Assembly – Exploded View for Reference Only

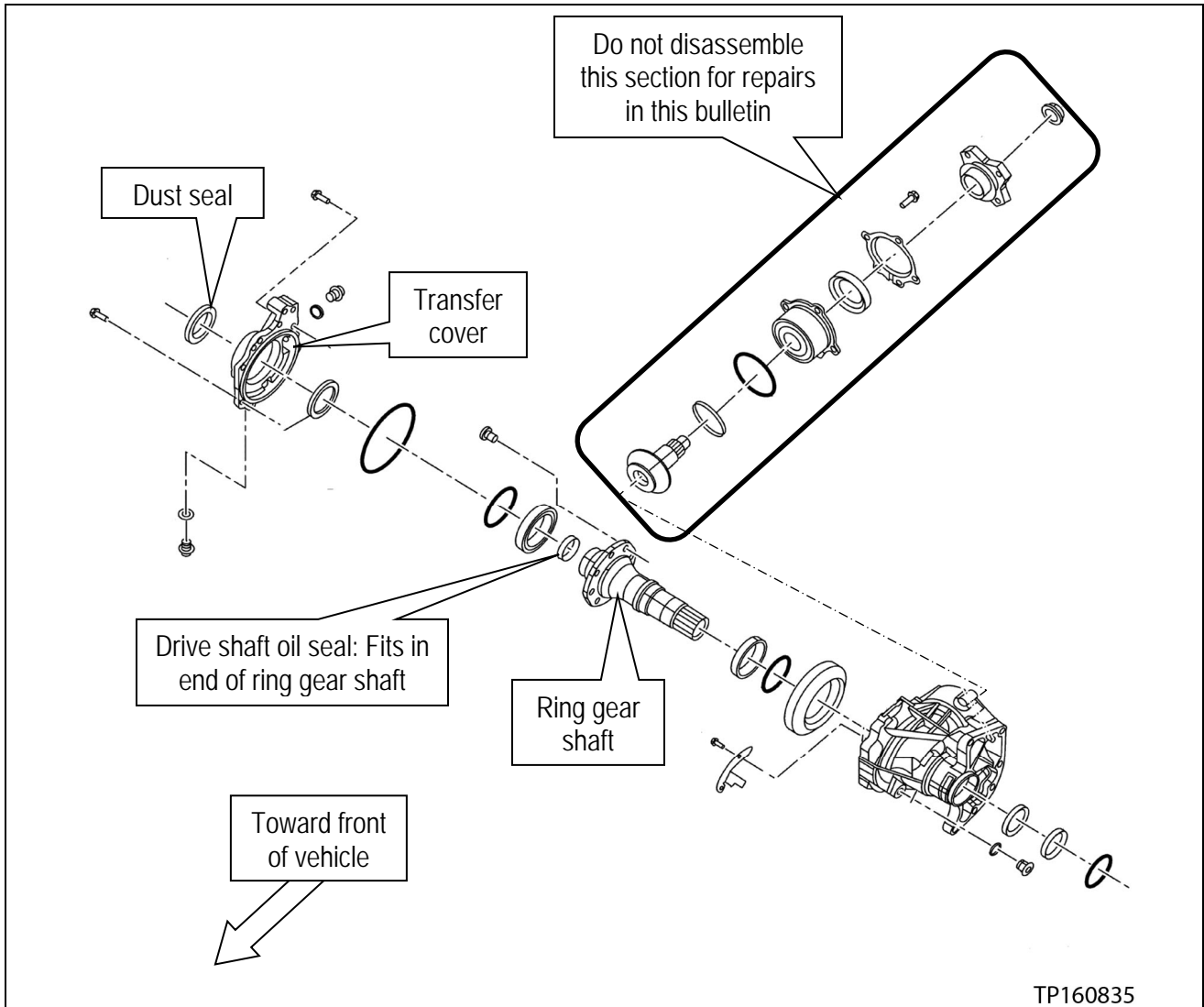


Figure 6

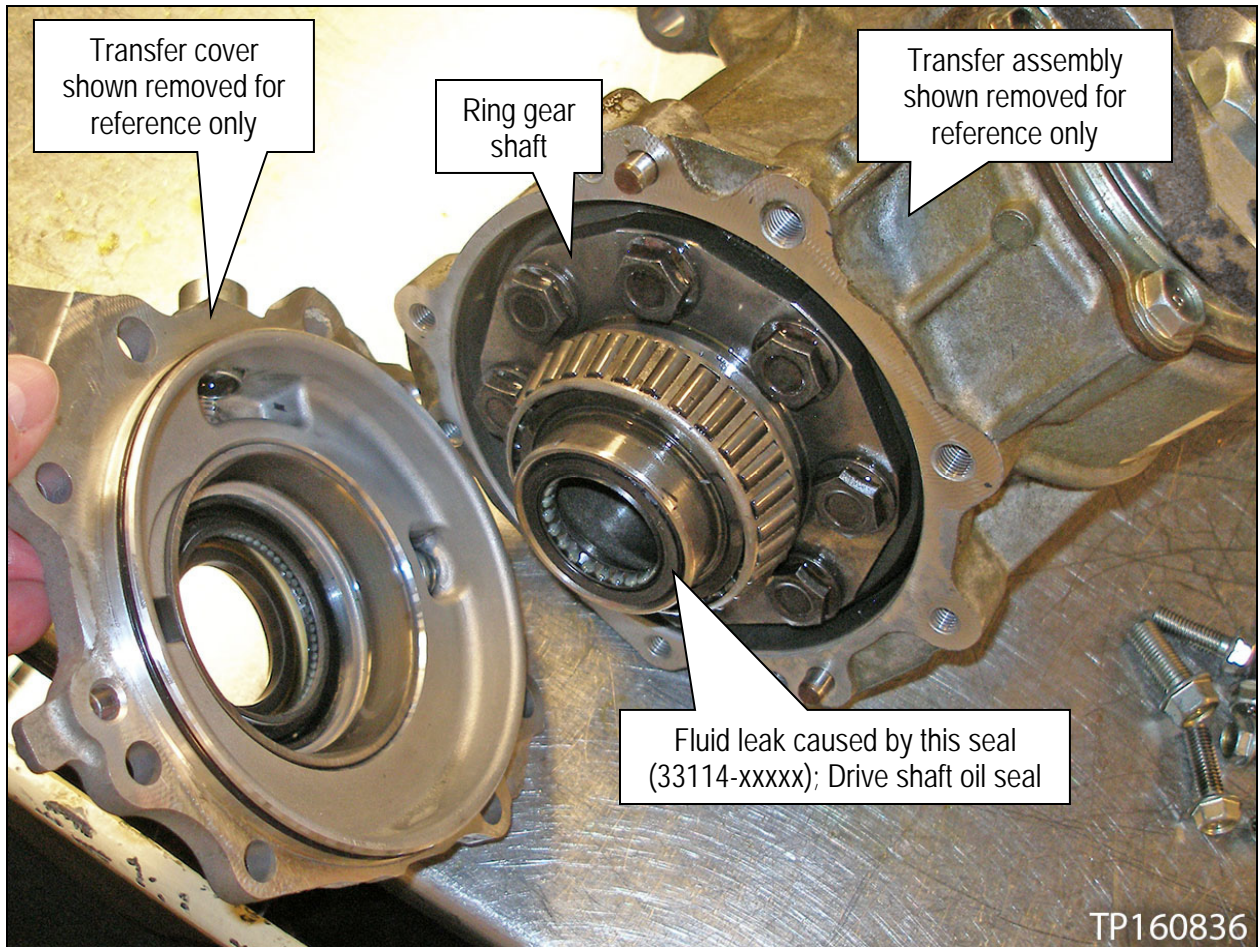


Figure 7

NOTICE

To avoid damage to the transfer assembly and new seals, use an appropriate seal installer and seal protector during the repair.

- This repair does NOT require transfer assembly removal from the vehicle.
- This repair does NOT require transfer cover removal from the transfer assembly.
- Figure 7 shows the transfer assembly removed from the vehicle and the transfer cover removed from the transfer assembly for reference only.

Passenger (RH) Side Drive Shaft Oil Seal Replacement Recommendations

- For passenger (RH) front drive shaft removal and installation, refer to the ESM: **TRANSMISSION & DRIVELINE > FRONT AXLE > REMOVAL AND INSTALLATION > FRONT DRIVE SHAFT > RH > AWD**
 - When removing the passenger (RH) drive shaft on a 2019-2024 QX50 or on a 2022-2024 QX55, and you are replacing the drive shaft oil seal and the dust seal, it is recommended to remove the support bearing bracket for additional clearance.

NOTICE

To avoid leak recurrence and damage to the transfer assembly and new seals, follow the sequence below on 2019-2024 QX50 and 2022-2024 QX55 vehicles for drive shaft support bearing bracket reinstallation.

1. Place and hold the drive shaft support bearing bracket into position, ensuring it is flat against the engine block and flat against the transfer assembly, and loosely install the bolts (Figure 8).

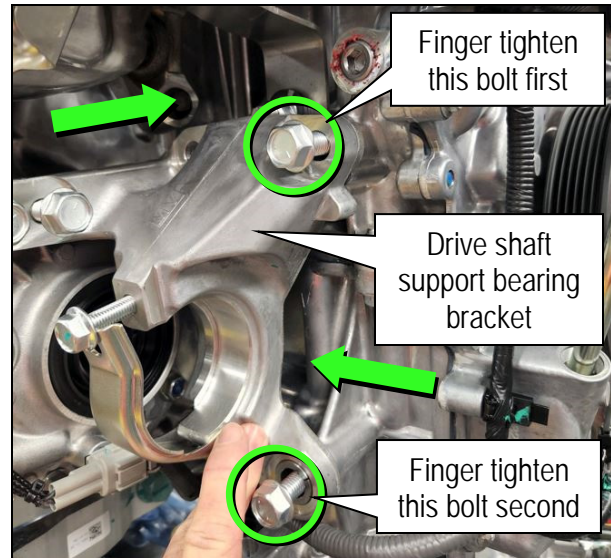


Figure 8

2. While continuing to hold the drive shaft support bearing bracket into position, finger tighten the top drive shaft support bearing bracket to engine block bolt first, and then finger tighten the lower drive shaft support bearing bracket to engine block bolt.
3. Finger tighten the drive shaft support bearing bracket to transfer assembly bolts.

4. While continuing to hold the drive shaft support bearing bracket into position, torque the top drive shaft support bearing bracket to engine block bolt to specification first, and then torque the lower drive shaft support bearing bracket to engine block bolt (Figure 9).

- Drive shaft support bearing bracket to engine block bolt torque: 48.0 N•m (4.9 kg-m, 35 ft-lb)

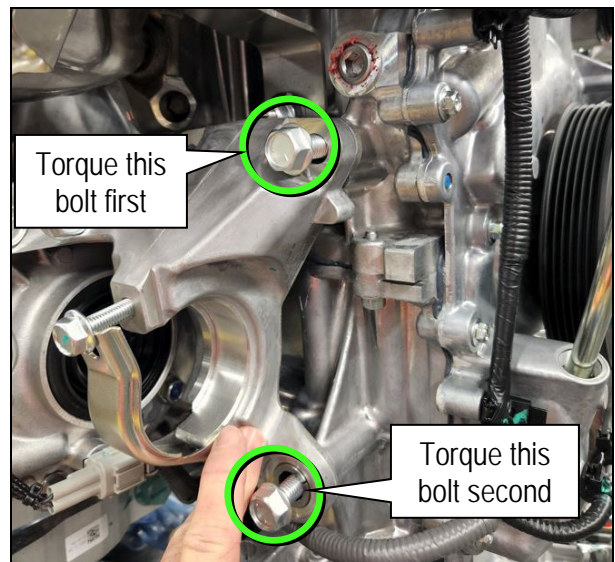


Figure 9

5. Torque the drive shaft support bearing bracket to transfer assembly bolts to specification.
 - Drive shaft support bearing bracket to transfer assembly bolt torque: 48.0 N•m (4.9 kg-m, 35 ft-lb)

PARTS INFORMATION

DESCRIPTION	PART # PREFIX (1)	QUANTITY
SEAL-OIL, DRIVE PINION (Drive shaft oil seal)	33114	1
SEAL-OIL (Dust Seal)	33142	1
PIN-COTTER (2)	40073	1
NUT-LOCK, FRONT WHEEL BEARING (Axle Hub Nut)	40262	1
NUT (Lower Strut Nut)	54588	2

(1) Refer to the Electronic Parts Catalog and use the VIN to determine the correct complete Part Numbers for the vehicle you are working on.

(2) All models except 2019-2024 QX50 (J55) and 2022-2024 QX55 (FJ55).

CLAIMS INFORMATION

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

DESCRIPTION	MODEL	PFP	OP CODE	SYM	DIA	FRT
Replace RH Front Axle Seal	QX50 (J55)	(1)	KX05AA	ZR	53	2.1
	QX55 (FJ55)					2.1
	QX60 (L50)					1.9
	QX60 (L50H)					1.8

(1) Refer to the Electronic Parts Catalog and use the Pinion Drive Seal part number (33114-*****) as the Primary Failed Part.

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
January 20, 2017	ITB17-001	Original bulletin published
March 25, 2020	ITB17-001A	APPLIED VEHICLES and PARTS INFORMATION revised
May 27, 2021	ITB17-001B	APPLIED VEHICLES revised, and two changes made to the QUANTITY column on page 4
February 16, 2022	ITB17-001C	Changes throughout
June 17, 2022	ITB17-001D	Changes throughout
December 13, 2023	ITB17-001E	APPLIED VEHICLES and Tech•Mate contact information revised