



Technical Service Bulletin

GROUP**RECALL****NUMBER****24-01-037G****DATE****JUNE 2024****MODEL(S)****GV60 (JW1 EV)**

SUBJECT: REAR INTEGRATED DRIVE AXLE (IDA) SHAFT REPLACEMENT
(RECALL 014G)

This TSB supersedes 23-01-053G-1 to include the QR code on page 3 for the guided video and information to ensure the left IDA is properly installed onto the inner shaft and the right IDA is fully inserted into the reduction gear on pages 18-19.

★ IMPORTANT

Vehicle repairs related to safety recalls are critically important and must be performed properly in accordance with TSB procedures. Review this bulletin in its entirety prior to beginning any repair work.

As required by federal law, retailers must not deliver new vehicles for sale or for lease to guests until all open recalls have been performed. Retailers must also perform all open recalls on used vehicles, demo, and rental vehicles prior to placing them into guest use and whenever an affected vehicle is in the shop for any maintenance or repair.

Access the "Vehicle Information" screen via WebDCS to identify open recalls.

Description: Certain GV60 (JW1 EV) vehicles are equipped with all-wheel drive powertrain systems containing rear driveshafts that could potentially fracture due to abnormal stress incurred by improper jig alignment during manufacturing. A fractured driveshaft could result in a sudden reduction of motive power, increasing the risk of a crash. This bulletin describes the procedure to replace the rear driveshafts with a revised part.



Applicable Vehicles (Certain):

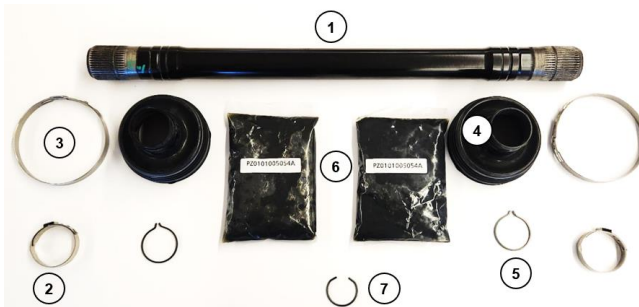


- 2023MY GV60 (JW1 EV) produced from 06/15/2022 – 02/10/2023

NOTICE

To avoid any potential damage to Genesis EVs, this recall can only be performed by EV certified Genesis retailers.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

Parts Information:

Part Name	Part Number	Figure	Remarks
Shaft Kit, Left Side	498L7-CU000QQH		1. Shaft 2. Small diameter band (2 EA) 3. Large diameter band (2 EA) 4. Boot (2 EA) 5. Snap ring (2 EA) 6. Grease (2 EA) 7. Circlip (Only included in right side kit)
Shaft Kit, Right Side	498R7-CU000QQH		
Left			Shaft Length: <ul style="list-style-type: none">Left: 20.1 in. (51.1 cm)Right: 21.4 in. (54.3 cm)
Right			

SST Information:

Tool Name	Tool #	Figure
Ear Type Boot Band Installer Tool (for small diameter band)	0K495-C5000	
IDA Type [Low Profile] Boot Band Installer Tool (for large diameter band)	09495-GI100	

- One of each tool was distributed to each EV certified Genesis Retailer at the start of the recall.
- For retailers that become EV certified after June 12, 2023 or if assistance is needed with these tools, please contact the Genesis Special Service Tools Team at Genesistools@gma.com.

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
GV60 (JW1 EV)	31D040R2	Rear Shaft Replacement (Both Sides)	2.1 M/H	498L7-CU000QQH	Q55	ZZ7

NOTE 1: Submit claim on Claim Entry Screen as “Campaign” type.


NOTE 2: If a part is found in need of replacement while performing this recall and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

NOTE 3: This TSB includes Repair validation photos. Op times include VIN, Mileage, and Repair validation photos as outlined in the Digital Documentation Policy.

NOTE 4: The incident parts are subject to callback through the normal Warranty Technical Center (WTC) parts return process. **Claim is subject to debit if the part is not returned.**

Service Procedure:

STUI




This TSB includes Repair validation photos. Refer to the latest Warranty Digital Documentation Policy for requirements.

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Information

Refer to the QR code or link below for guided video information:
<https://vimeo.com/830705341/2df3ba7a49>



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• IDA Installation into Vehicle	page 18

Rear IDA (Integrated Drive Axle) Removal

1. Raise the vehicle and ensure it is securely supported.

Refer to Shop Manual:

- **General Information > Lift and Support Points > General Information**

NOTICE

When lifting a vehicle using a lift, be careful **NOT** to damage the lower parts of the vehicle (floor under cover, battery).

2. Remove the rear wheels, rear brake calipers, rear brake discs, wheel speed sensors and bracket, and rear under cover.

Refer to Shop Manual:

- **Suspension System > Tires/Wheels > Wheel > Removal**
- **Brake System > Brake System > Rear Brake Caliper > Removal and Installation**

NOTICE

Do **NOT** hang the brake caliper from the brake hose.

**Information**

Use the GDS “Brake Pad Change Mode” function to release the parking brake to remove the rear calipers.

Brake System > Brake System > Parking Brake System > Electronic Parking Brake (EPB) > Adjustment

Disconnect the 12V battery negative (-) terminal and the EPB actuator connector after completing the function.

Refer to Shop Manual:

- **Brake System > Brake System > Rear Disc Brake > Removal and Installation**
- **Brake System > ESC (Electronic Stability Control) System > Rear Wheel Speed Sensor > Removal and Installation**
- **Motor and Reduction Gear System > Rear Motor and Reduction Gear System > Rear Under Cover > Removal and Installation**

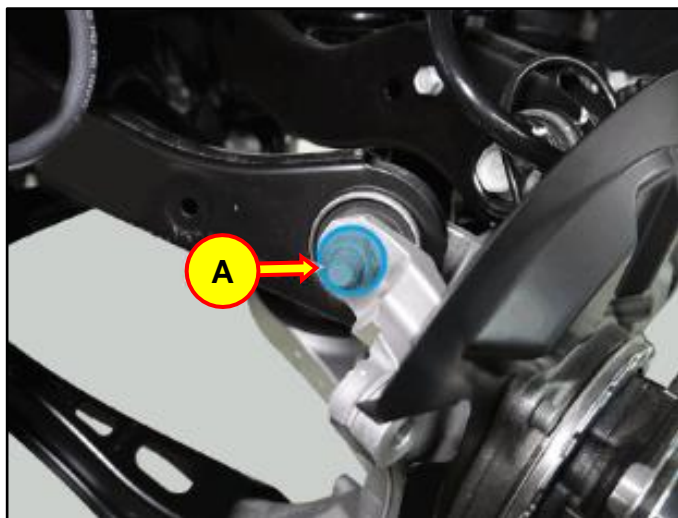
3. Separate the rear upper arm front from the rear carrier after removing the bolt and nut (A) on both sides of the vehicle.

Rear Arm to Carrier Tightening Torque:

lb-ft	123
N.m	167

NOTICE

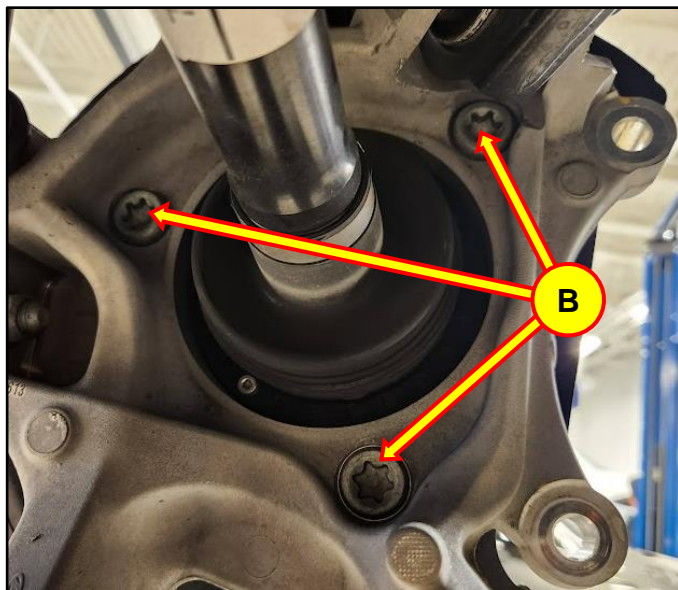
- Use a transmission jack to lift the rear carrier to prevent the bolt and nut from damage when removing and installing.
- Ensure the bolts are reinstalled without binding to properly torque the nut.



4. Remove the rear carrier mounting bolts (B) on both sides of the vehicle.

Rear Carrier Tightening Torque:

lb-ft	102
N.m	138



5. Remove both IDAs and place on a work bench.

Left Side IDA

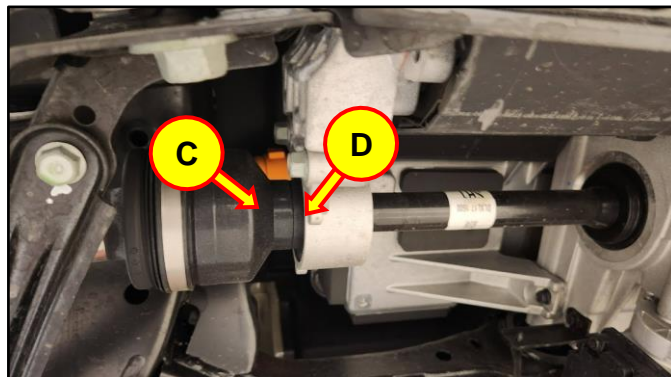
Insert a pry bar between the IDA inner joint cup (C) and the bearing support bracket (D), then carefully pry the joint cup to separate it from the bearing.

Right Side IDA

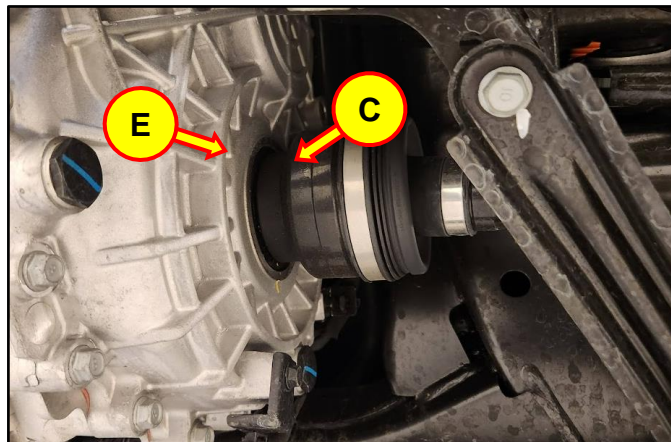
Insert a pry bar between the IDA inner joint cup (C) and the reduction gear case (E), then carefully pry the joint cup to separate it from the reduction gear.

NOTICE

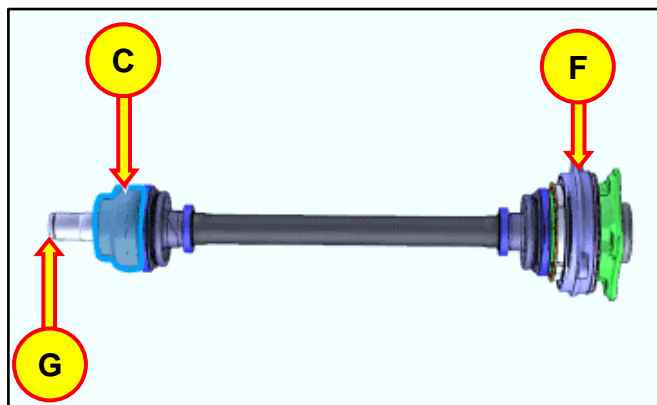
- Do **not** pull the wheel side axle joint (F), or shaft when removing IDA. Damage to the inside of the reduction gear or IDA joint may occur.
- Pull from the inner joint cup (C) to remove it from the bearing or reduction gear case.
- When carrying the IDA, hold the shaft or both joints.
- Do **not** insert the pry bar too deep, as this may damage the oil seal.
- Do **not** use excessive force to remove the IDA.
- After removing the IDA, cover the hole of the reduction gear to prevent contamination.
- Remove the circlip (G) on the inner side spline of the right IDA. Use the new circlip provided in the kit during reassembly.



Left Side



Right Side



Joint Removal

1. The wheel side (A) and inner side (B) joint cup sub-assemblies will be reused during reassembly of the new axle.

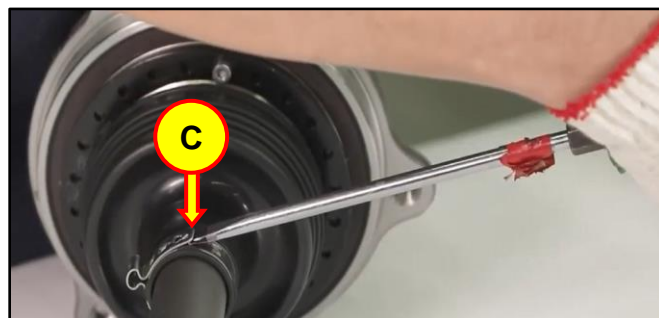
Use the new shaft, boots, bands, snap rings, and circlip supplied in the kit.



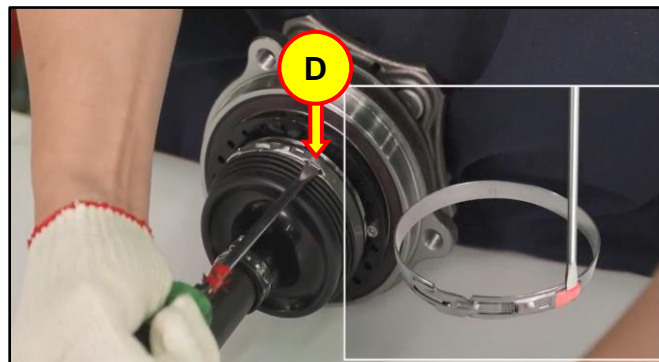
2. Starting from either end of the IDA, remove the small and large boot bands by using a flat-blade screwdriver and pry the bands at the locations shown (C), (D), and (E).

i Information

To help pry the bands apart, insert the flat-blade screwdriver into the band as shown and then hit the handle end of the driver with a mallet.



Small Diameter Band

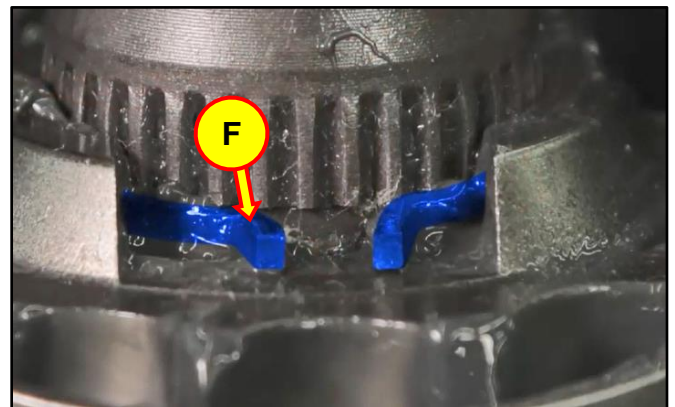
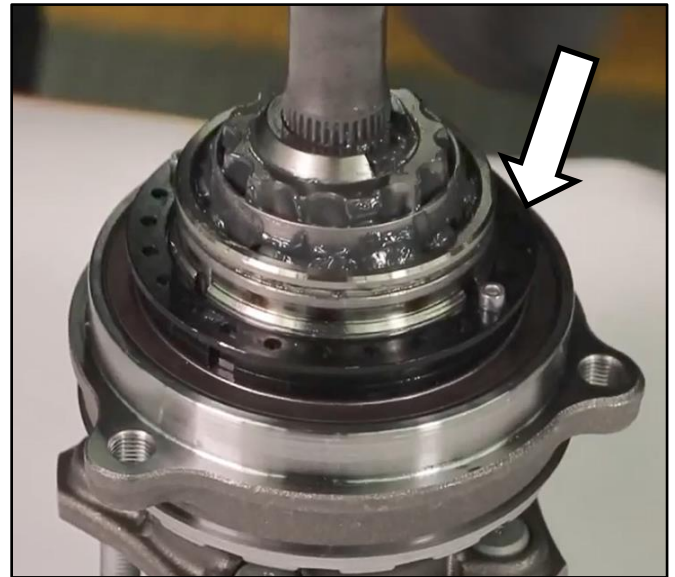


Large Diameter Band

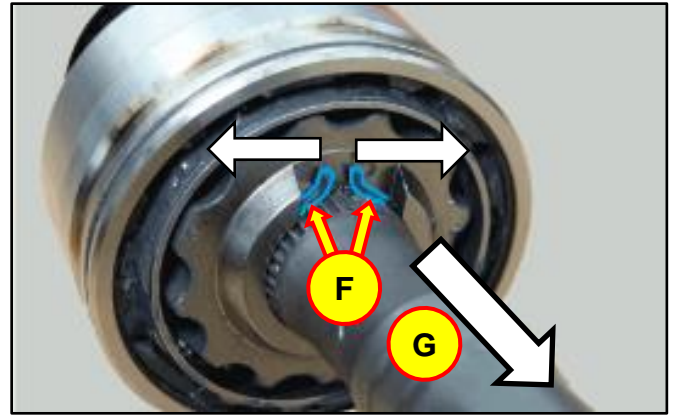


Large Diameter Band

3. Slide the boot off of the joint and down the shaft.
4. Then use a clean cloth to remove as much grease as possible from within the joint to locate and remove the snap ring.
5. Using a rubber mallet, gently tap the joint downward to place the snap ring (F) against the groove.



6. Use snap ring pliers to open the snap ring (F). If the snap ring is in position in the groove, the snap ring will stay open. Then pull or gently tap the joint until the shaft (G) is out of the joint.



7. Remove the snap ring from within the joint.
Do NOT reuse the snap ring.
8. Set the joint aside in a clean area to reuse on the new axle.
9. Perform steps 2 through 8 to remove the other joint on the other end of the shaft.

Keep the left (driver) and right (passenger) side joints separated to ensure the joints are installed on the correct shaft.

10. Repeat the joint removal procedure on the other IDA shaft.

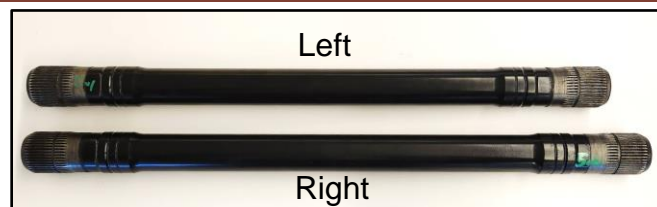
Joint Installation on New Shaft

1. Do not mix the joints between the left (driver) and right (passenger) side IDA.

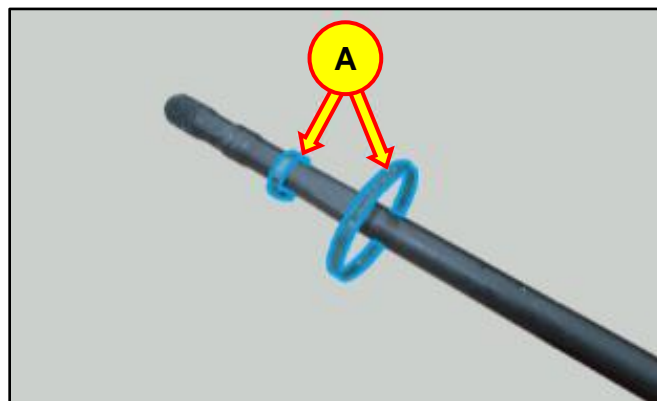
i Information

Shaft Length

- Left: 20.1 in. (51.1 cm)
- Right: 21.4 in. (54.3 cm)



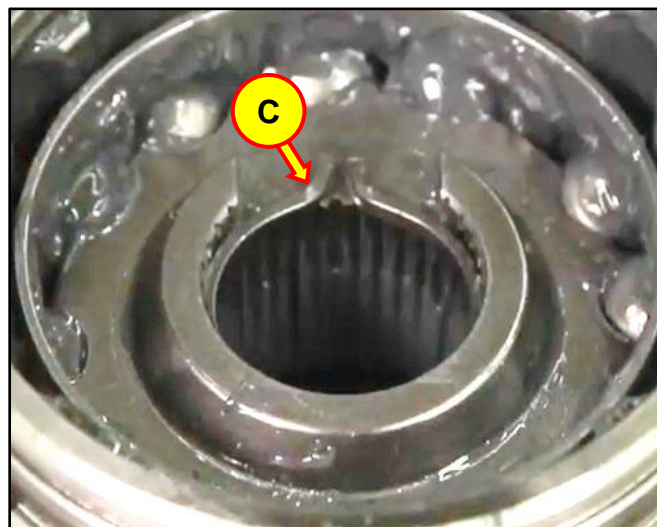
2. Slide the new small and large diameter boot bands (A) on the new shaft.



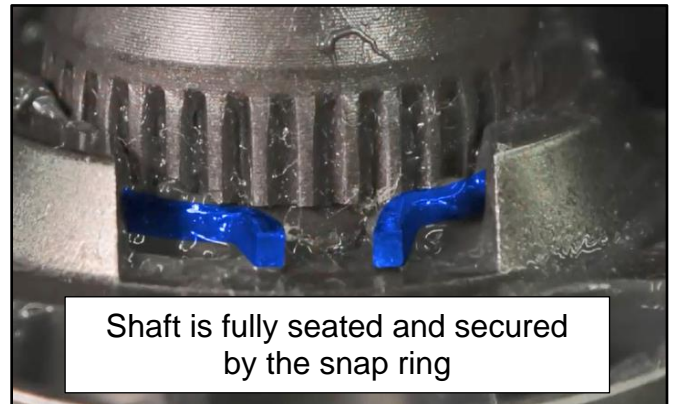
3. Slide a new boot (B) on the shaft.
Keep the interior of the boot clean.



4. Place a new snap ring (C) inside the joint.



5. Insert the axle splines into the joint until the shaft is secured by the snap ring.



6. Use one grease packet for each joint/boot.

NOTICE

The IDA requires the use of the supplied grease. Do **NOT** add or use any other type of grease.

2/3rds for
the joint 1/3rd for
the boot



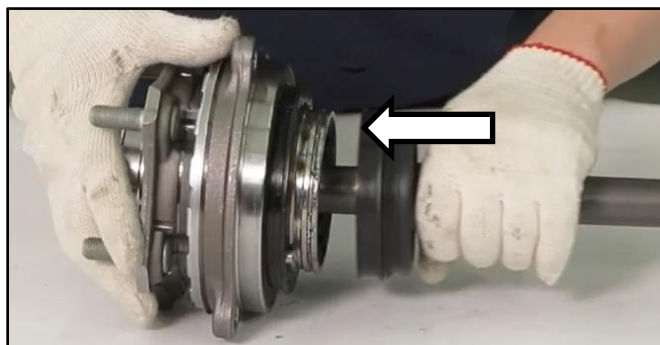
7. Apply approximately one-third of the grease inside the boot.



8. Apply the remaining two-thirds of the grease in the joint.

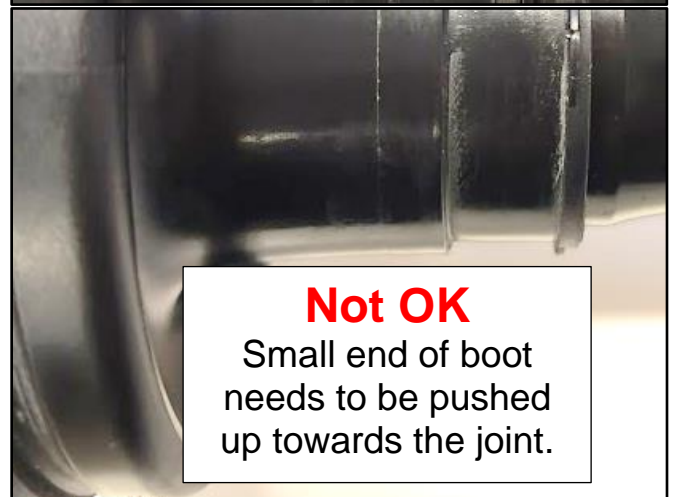
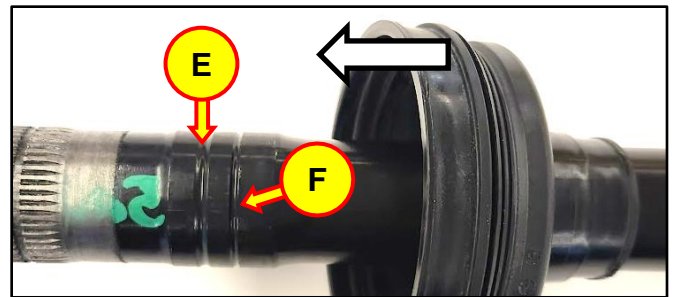


9. Install the boot onto the joint.



10. Ensure the molded ridge (D) in small end of the boot slides on to the groove that is closest to the spline end (E) when installing the boot onto the joint.


If the boot is installed correctly, the other groove (F) will be visible.



11. Clean the excess grease from the shaft and boots.
12. Place the small and large diameter bands into their respective positions.



13. Use the correct tool to clamp each band type.

Small Diameter Band	Larger Diameter Band
	
Ear type Band Tool (SST: 0K495-C5000)	IDA type (Low profile) Tool (SST: 09495-GI100)
	

**Information**

If it is difficult to open and close the tool smoothly, loosen the three bolts that are circled.

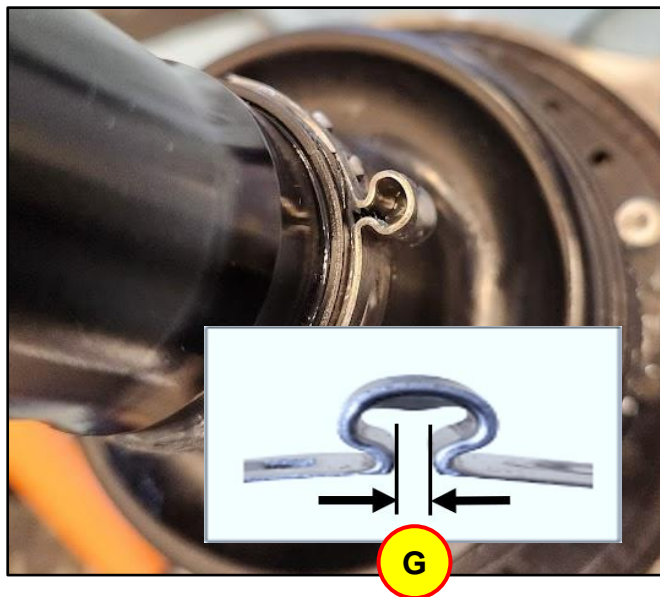
**NOTICE**

- Do **NOT** close the tool handles all the way in one motion to clamp the bands on the boot.
- Close the handles slowly and in small increments.
- Check that the bands are clamped to the specifications in steps 14 and 15.
- Overtightening the bands can damage the boot and not provide the proper sealing causing the boots to leak. Conversely, if the bands are under tightened, the boots will leak.



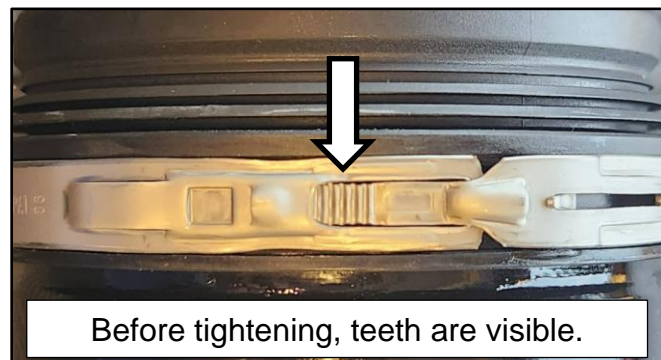
14. Tighten the ears of the small diameter band until it reaches the specified gap (G) of 0.1 mm – 2.1 mm (0.004 in. – 0.082 in.).

Close the handles of the tool slowly and in small increments to reach the specified gap.



15. Tighten the larger diameter band by hand until only one tooth is visible on the band.

Then use the tool to tighten until the teeth are no longer visible.



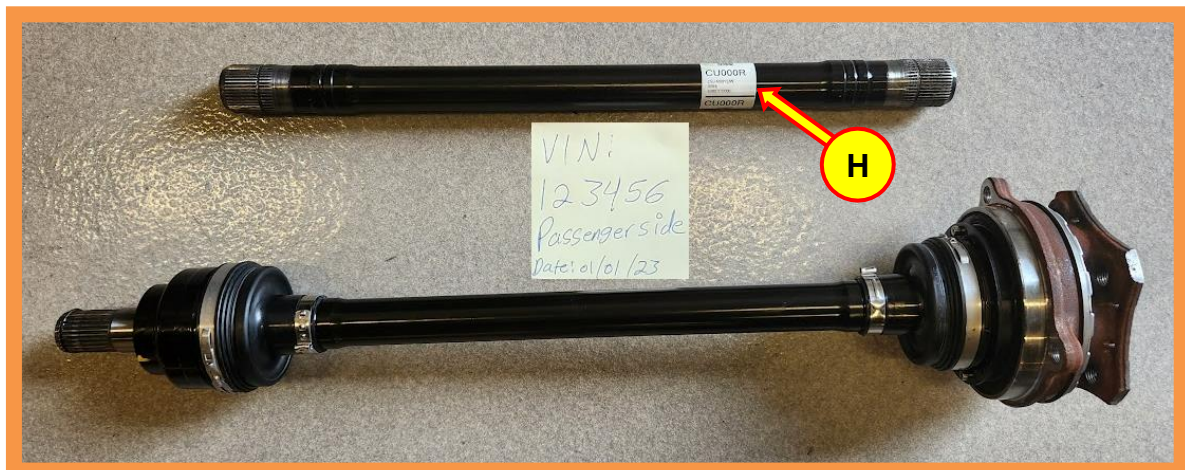
16. Repeat the above process to install the other joint to complete the new shaft assembly.
17. Install the joints on the other new shaft following the same procedures above to complete the 2nd new shaft assembly.
- 18.

STUI

Using STUI, take separate clear photos of the new left (driver) and right (passenger) side assembled IDAs along with the removed shaft, with the shaft's label (H) visible, the last 6 digits of the VIN, IDA side (driver or passenger), and the date of repair on a piece of paper. See examples shown below.

Two photos will be taken, one for the left side and one for the right side.

Upload the photos to STUI.



IDA Installation into Vehicle

1. Install the newly assembled IDAs in reverse order of removal.

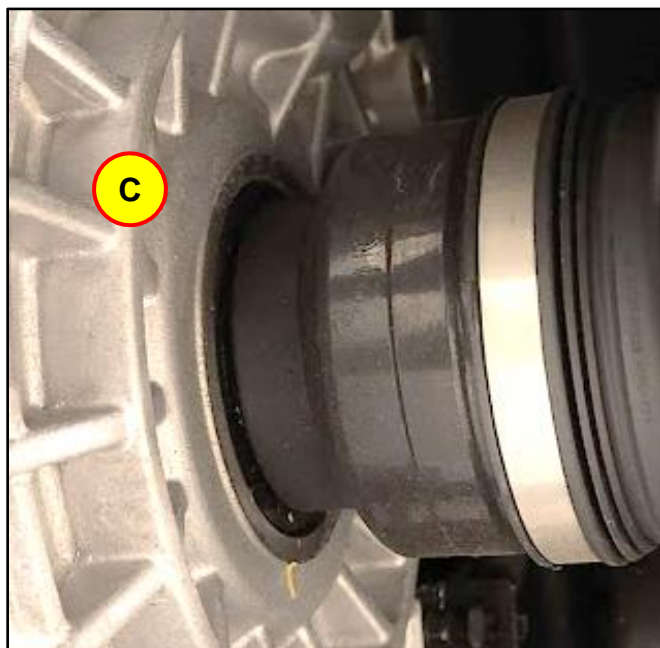
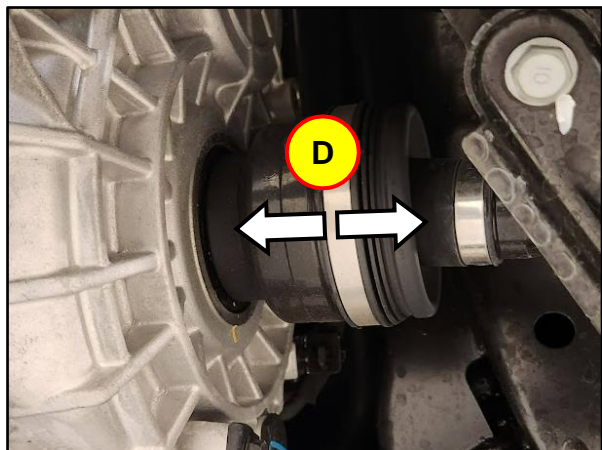
***i* Information**

Install a new circlip (A) to the right side inner spline end before inserting the IDA into the reduction gear.



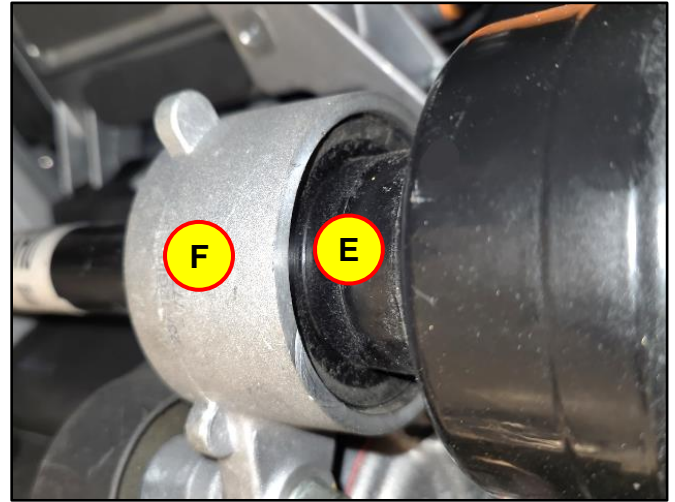
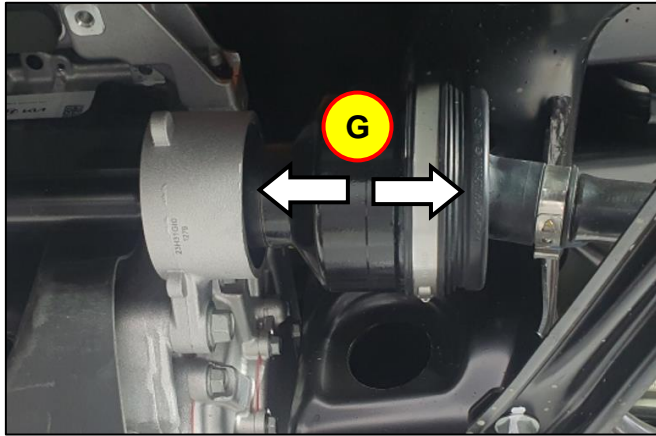
2. Ensure that the right IDA is fully inserted into the reduction gear (C) and secured by the circlip.

The IDA joint cup (D) should not slide back and forth within the reduction gear.



3. Ensure that the left IDA dust cover (E) is properly installed on the inner shaft bracket (F) and secured by the inner shaft circlip.

The IDA joint cup (G) should not slide back and forth on the inner shaft.



4. Reinstall other removed parts in the reverse order of removal.
5. The service procedure is now complete.