



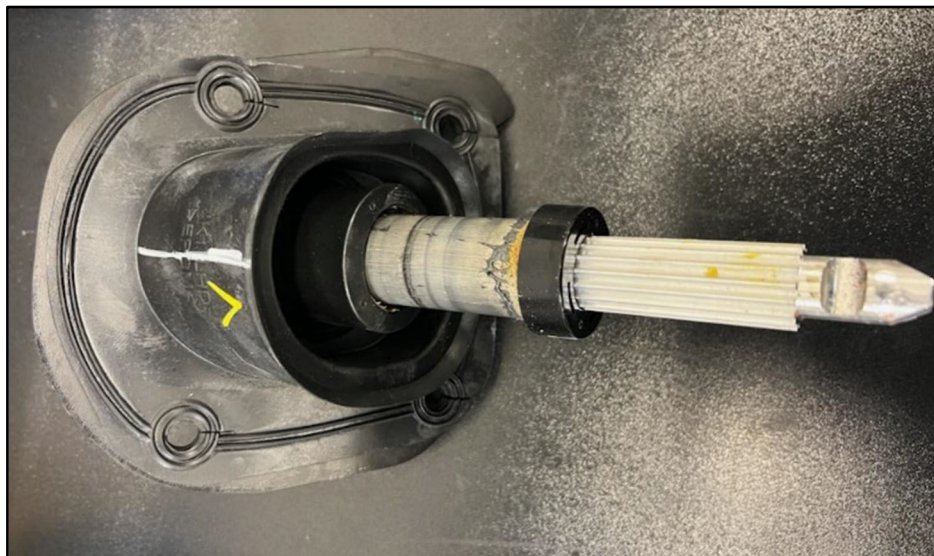
Technical Service Bulletin

GROUP	NUMBER
STEERING	23-ST-004G-1
DATE	MODEL(S)
SEPTEMBER 2023	SEE BELOW

SUBJECT: STEERING UNIVERSAL JOINT NOISE INSPECTION AND GREASE APPLICATION

This TSB supersedes 23-ST-004G to add the op code and service procedure information for G90 (RS4) vehicles equipped with an electric supercharger (E-SC).

Description: This bulletin describes the procedure to inspect the steering universal joint dust cover for noise, and if necessary, apply grease on certain Genesis vehicles.



Applicable Vehicles:

- 21-24MY G80 (RG3)
- 23-24MY G80 Electrified (RG3 EV)
- 23-24MY G90 (RS4)
- 22-24MY GV70 (JK1)
- 24MY GV70 Electrified (JK1 EV)
- 21-24MY GV80 (JX1)

NOTICE

Genesis EV repairs can only be performed by EV certified Genesis retailers.

Parts Information:

Model	Part Name	Part Number	Remarks
All	Universal Joint Lock Bolt	56415-J5000	2 each
	Panorama Loop Grease	81685-3S000	Use a total of 10cc (about 2 teaspoons) 1 container / 30 vehicles

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part*	Nature Code	Cause Code
All	56415F05	Dust Cover Noise Inspection	0.3 M/H	56400-XXXXX*	Q55	ZZ5
GV80 (JX1) G80 (RG3) G90 (RS4 without E-SC)	56415F06	Dust Cover Noise Inspection, Universal Joint Removal, and Grease Application	0.7 M/H			
Electrified G80 (RG3 EV)	56415F07		0.9 M/H			
GV70 (JK1)	56415F08		0.8 M/H			
Electrified GV70 (JK1 EV)	56415F09		1.2 M/H			
G90 (RS4) with E-SC	56415F11		1.1 M/H			

NOTE 1: Normal warranty applies.

***NOTE 2:** Please refer to the parts catalog for applicable joint steering assembly.

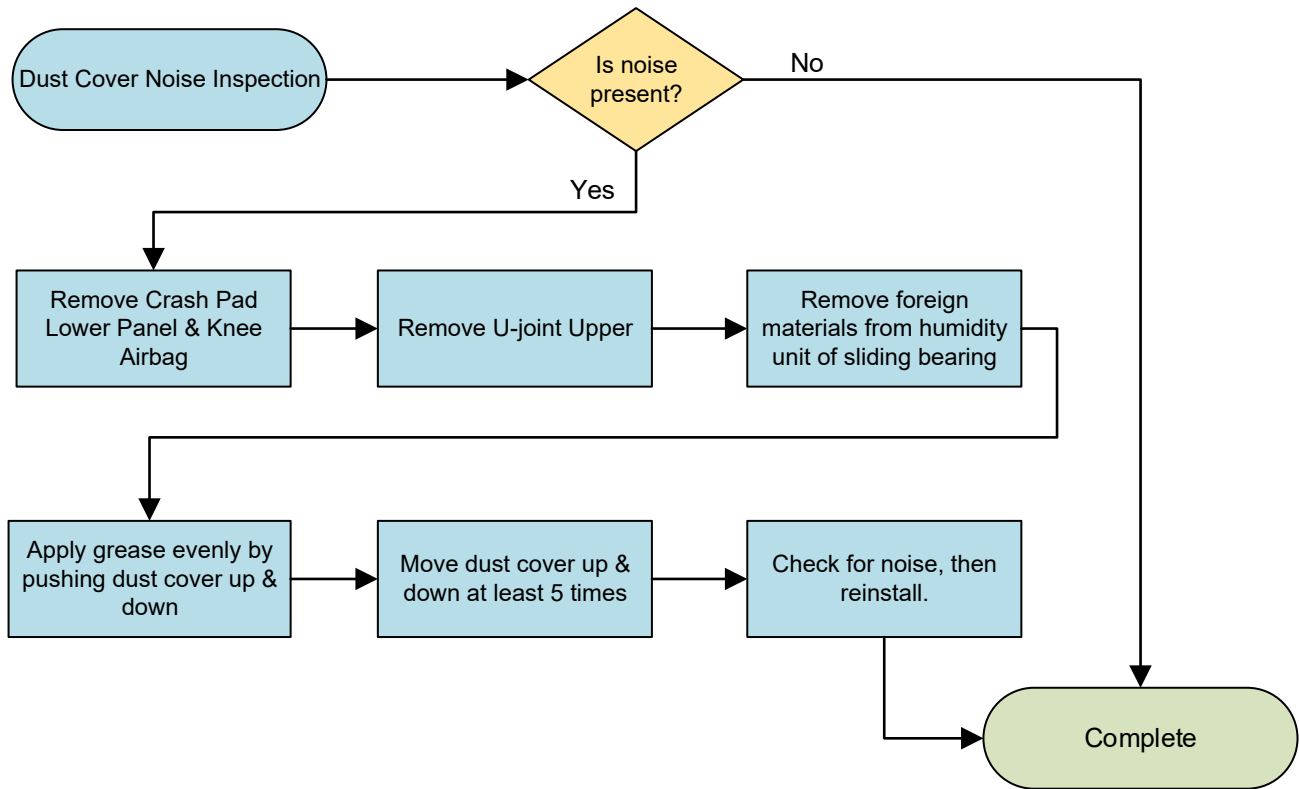
NOTE 3: Submit claim on Claim Entry Screen as “Warranty” type.

NOTE 4: This TSB includes Repair validation photos. Op times include VIN, Mileage, and Repair validation photos as outlined in the Digital Documentation Policy.

NOTE 5: If a part is found in need of replacement while performing this TSB 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

NOTE 6: Please claim \$2.50 on sublet for the use of panorama loop grease for op codes 56415F06-F09, F11.

Service Procedure Overview:



Inspection Procedure:

1. With the ignition ON (engine running if applicable), turn the steering wheel left/right repeatedly and listen for any abnormal noises around the universal joint dust cover.

Refer to the videos below for inspection of universal joint dust cover noise.

[Noise Video 1: https://youtu.be/jPXNQpof5Aw](https://youtu.be/jPXNQpof5Aw)

[Noise Video 2: https://www.youtube.com/shorts/YybH_IRVSQw](https://www.youtube.com/shorts/YybH_IRVSQw)

[Noise Video 3: https://www.youtube.com/shorts/5_45z2i3pdI](https://www.youtube.com/shorts/5_45z2i3pdI)

[Noise Video 4: https://www.youtube.com/shorts/AeOYFEehvRA](https://www.youtube.com/shorts/AeOYFEehvRA)

If a noise is heard in the area, proceed to removing the crash pad lower panel and knee airbag, and perform the cleaning and grease application per service procedures below.

Service Procedure:

STUI



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

***i* Information**

For G90 (RS4) vehicles equipped with electric supercharger (E-SC), the 48V battery pack must be removed to gain access to the 12V battery. Follow the procedures below to disconnect the 12V battery. Other than this exception, the rest of the procedures in this TSB apply to all models listed, including G90 (RS4) E-SC vehicles.

12V Battery Disconnection for G90 (RS4) equipped with electric supercharger (E-SC):

1. Center the steering wheel and the front wheels pointed straight ahead.

Record customer's radio presets, then turn off the ignition switch. Wait at least 3 minutes before continuing.

***i* Information**

Centering the steering wheel provides a reference point when disconnecting and reattaching the steering universal joint.

The steering u-joint is "keyed" on both sides, allowing only one orientation of installation.

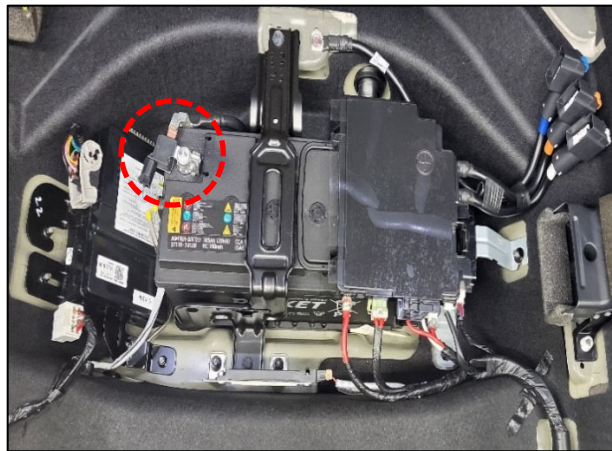
2. Remove the 48V battery system assembly (BSA) by following the procedures described in the service manual:
Engine Electrical System -> 48V Battery System -> Battery System Assembly (BSA) -> Removal and Installation

3. With the BSA removed, the 12V battery is accessible. Disconnect the battery negative (-) terminal.

Continue to the **Crash Pad Lower Panel and Knee Airbag Removal** service procedures.

Battery Negative Terminal Tightening Torque:

lb-ft	6.5
lb-in	78
N.m	8.8



Crash Pad Lower Panel and Knee Airbag Removal:

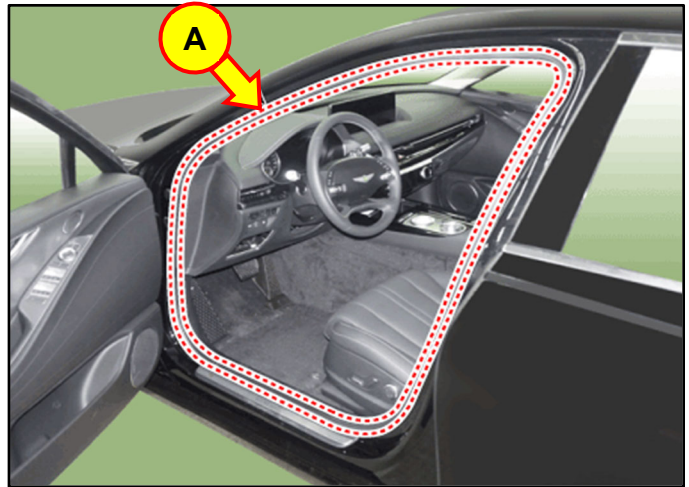
***i* Information**

The procedure in this TSB is based on the Shop Manual for G80 (RG3) vehicles. For detailed procedures for each vehicle please refer to the applicable Shop Manual.

1. Center the steering wheel and the front wheels pointed straight ahead.

Record customer's radio presets, then turn off the ignition switch and disconnect the battery negative (-) cable. Wait at least 3 minutes.

Remove the L/H front door body side weather strip (A).



Battery Negative Terminal Tightening Torque:

lb-ft	6.5
lb-in	78
N.m	8.8

***i* Information**

Centering the steering wheel provides a reference point when disconnecting and reattaching the steering universal joint.

The steering u-joint is “keyed” on both sides, allowing only one orientation of installation.

⚠ CAUTION

For EV vehicles, disconnect the service interlock connector and wait 3 minutes before continuing to work on vehicle. See applicable Service Manual for details.

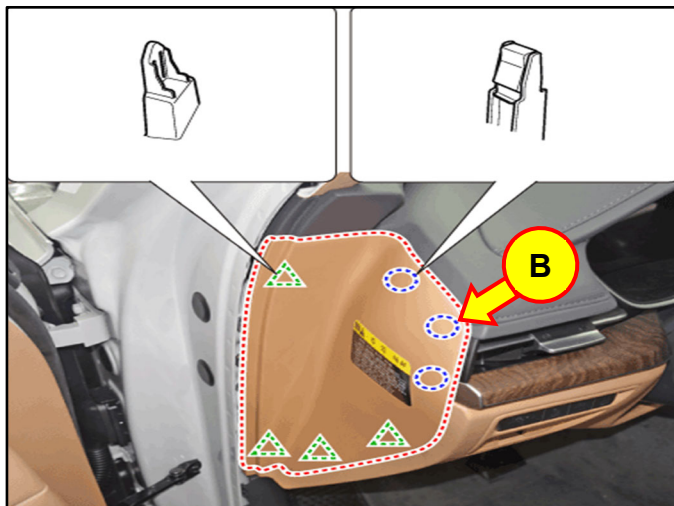
2. Remove the crash pad L/H side cover (B) using a trim removal tool.

CAUTION

Be careful not to injure your hands when removing the cover.

NOTICE

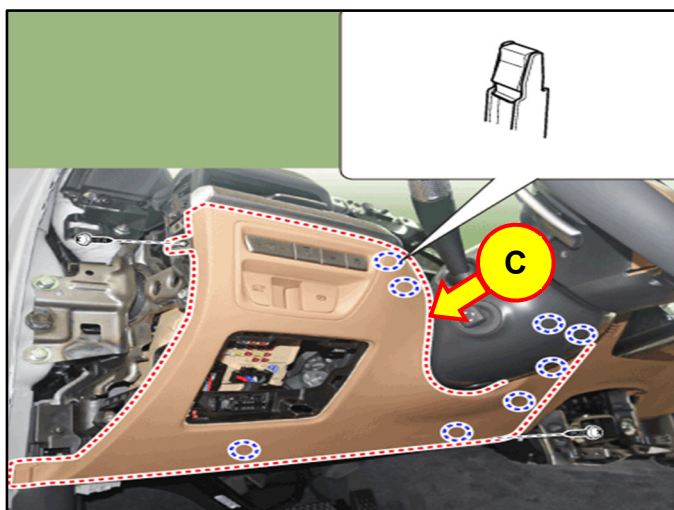
Be careful not to damage parts during removal.



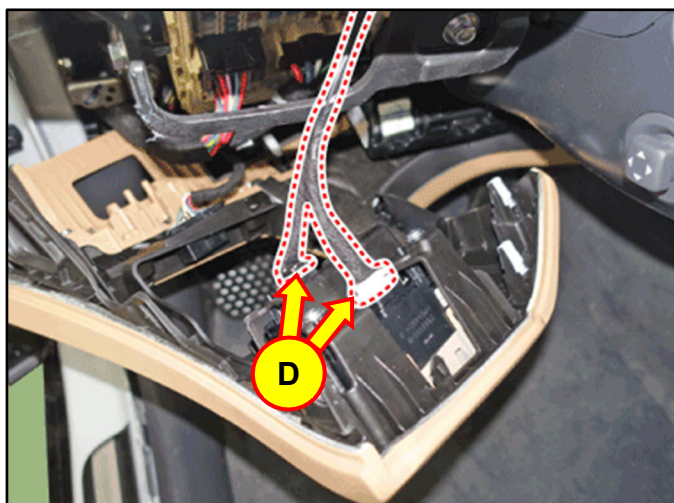
3. Loosen the mounting screws and remove the crash pad lower panel assembly (C).

i Information

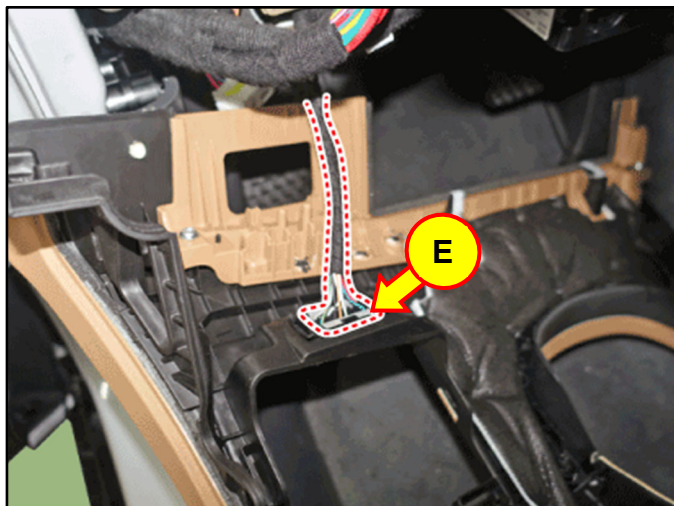
Be sure to replace any damaged clips with new ones during reassembly.



4. Press the lock pin to remove all connectors (D) attached to the crash pad lower panel.



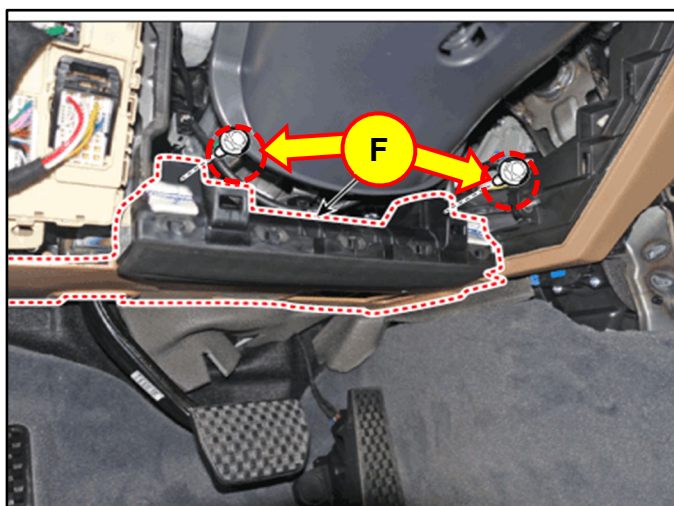
5. Unclip the diagnostic connector (E) by pressing the locking pin and then remove the crash pad lower panel.



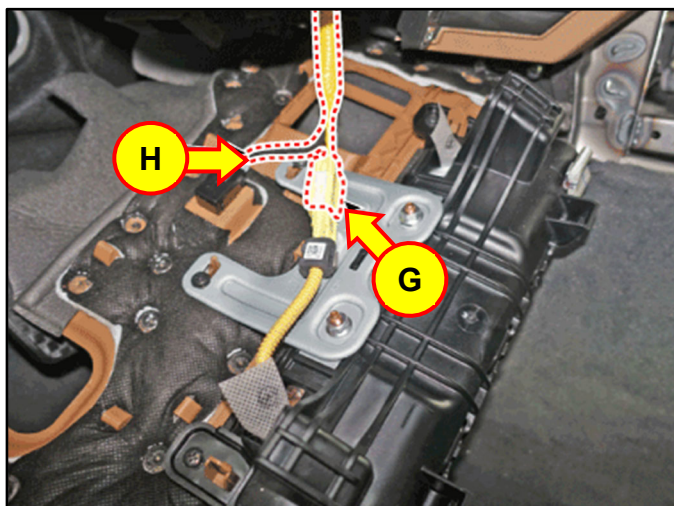
6. Remove the knee airbag retaining bolts (F) and then remove the knee airbag assembly.

Knee Airbag Mounting Bolt Tightening Torque:

lb-ft	7.3
lb-in	91
N.m	9.8



7. Remove the knee airbag connector (G) and foot light connector (H) attached to the knee airbag assembly.



Universal Joint Removal and Grease Application:

1. Remove the column shaft fixing clip (A) and loosen the universal joint upper fastening bolt (B).

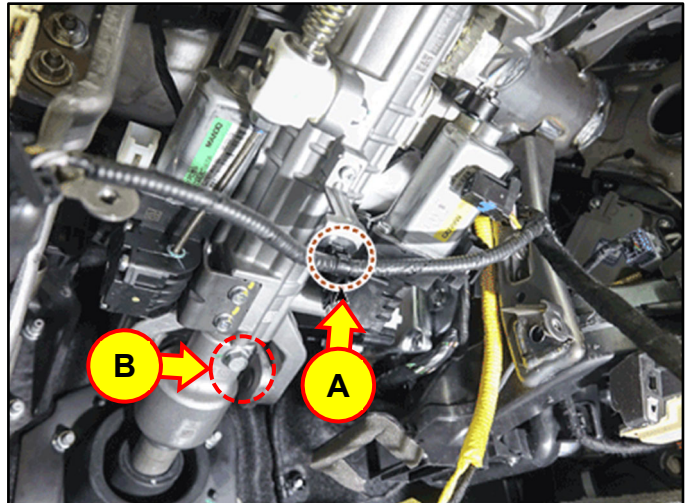
i Information

Only remove the wiring fixing clip if it interferes with the universal joint upper fastening bolt.

i Information

Centering the steering wheel provides a reference point when disconnecting and reattaching the steering universal joint.

The steering u-joint is “keyed” on both sides, allowing only one orientation of installation.



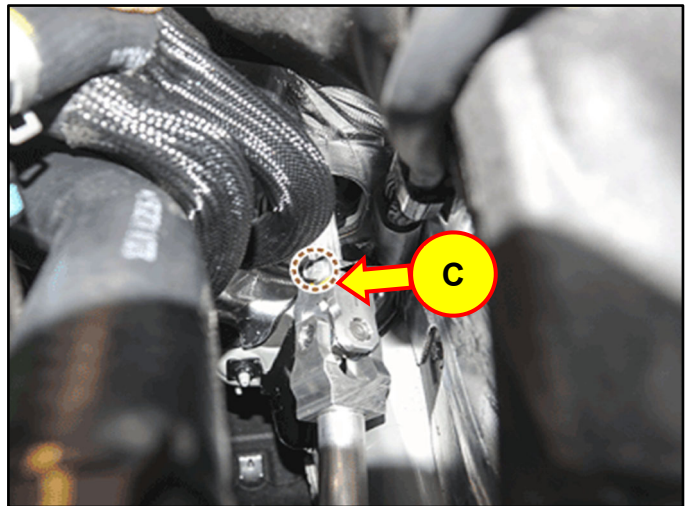
2. Loosen the universal joint upper fastening bolt (C) and remove the universal joint upper from the steering column and the steering shaft.

Universal Joint Bolt Tightening Torque:

lb-ft	26
N.m	35

i Information

Some models may require removal of engine cover and/or air filter housing to access the universal joint upper fastening bolt (C). See applicable Service Manual procedures for details.



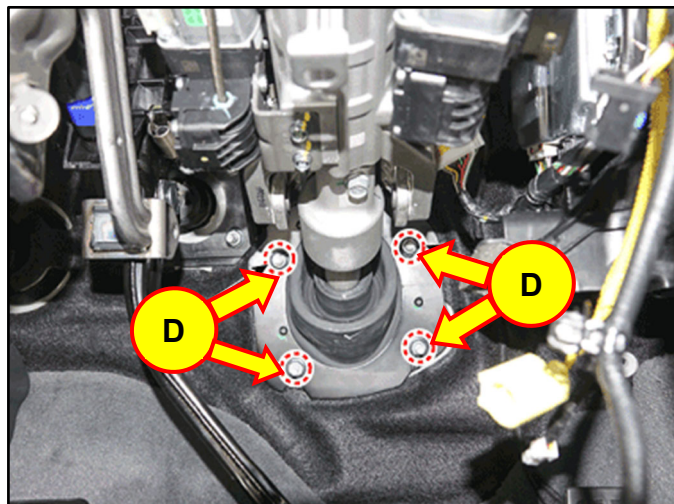
- Remove the universal joint dust cover nuts (D) and then the universal joint upper.

i Information

For more details on removing the universal joint refer to the applicable Shop Manual for each vehicle.

Dust Cover Bolt Tightening Torque:

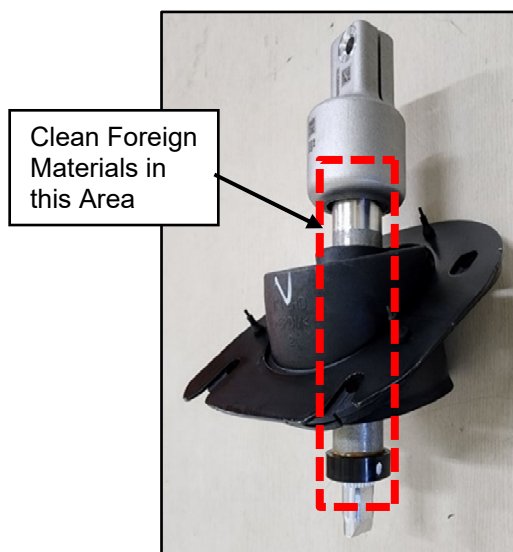
lb-ft	7.3
lb-in	88
N.m	9.8



- Clean the universal joint shaft with a cloth to wipe off foreign substances and grease.

i Information

- Move the dust cover up and down to help remove foreign materials and grease.
- Noise may recur if all foreign materials and grease are not removed.

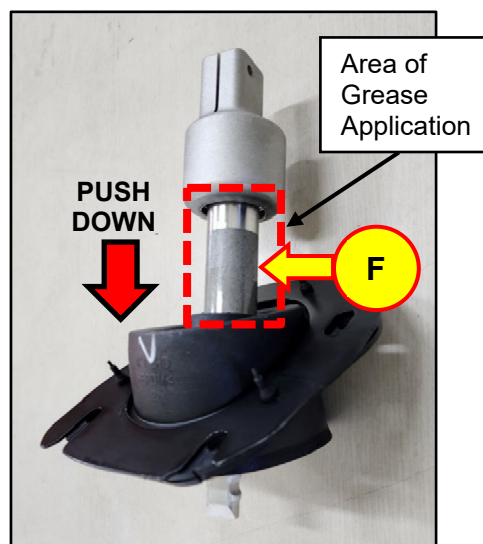


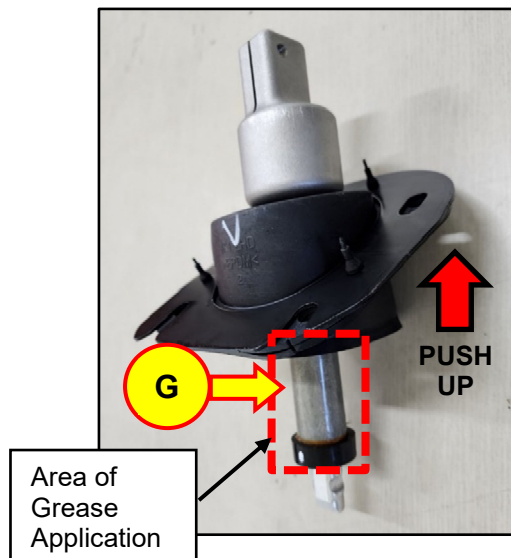
- Apply approximately 5 cc of grease (about a teaspoon) evenly to shaft upper area (F). Then push the dust cover upwards. Apply approximately 5 cc of grease (about a teaspoon) evenly to the shaft lower area (G).

i Information

Refer to video below for an example of grease application:

[Steering Grease Application Video:](https://youtu.be/fDC0QtD56ys)
<https://youtu.be/fDC0QtD56ys>



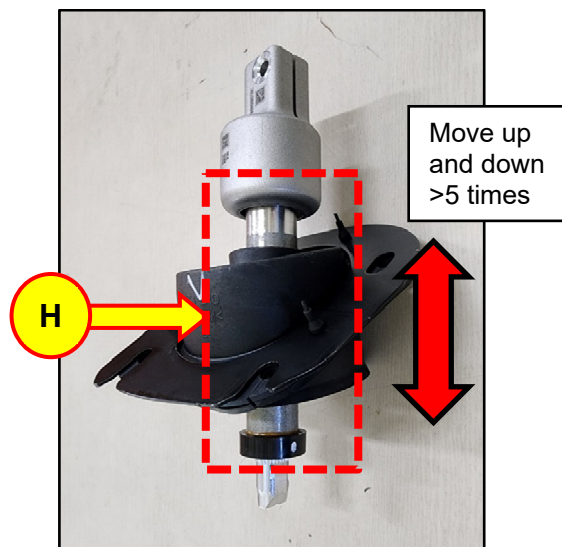


5. Move the dust cover (H) up and down more than five times to ensure it operates smoothly and there is no noise before reinstallation.

After grease application is complete, install all components in reverse order of removal.

i Information

- Before installation, check for noise in the universal joint.
- When installing, check the alignment of the handles and insert them into the steering column and steering joint.



NOTICE

Be sure to replace the Universal Joint Lock Bolts with new ones (2 each). These are not to be reused.

6.

STUI



Using STUI, take a photo of the cleaned and greased universal joint dust cover assembly with the last 6 digits of the VIN and the date of repair on a piece of paper.

Upload the photo to STUI.



7. Reconnect the negative battery cable and interlock connector (if applicable).
8. Input the customer's radio stations.
9. Drive the vehicle to confirm proper operation.
10. The service procedure is complete.