



Technical Service Bulletin

GROUP

BODY

NUMBER

19-BD-001HG

DATE

FEBRUARY, 2019

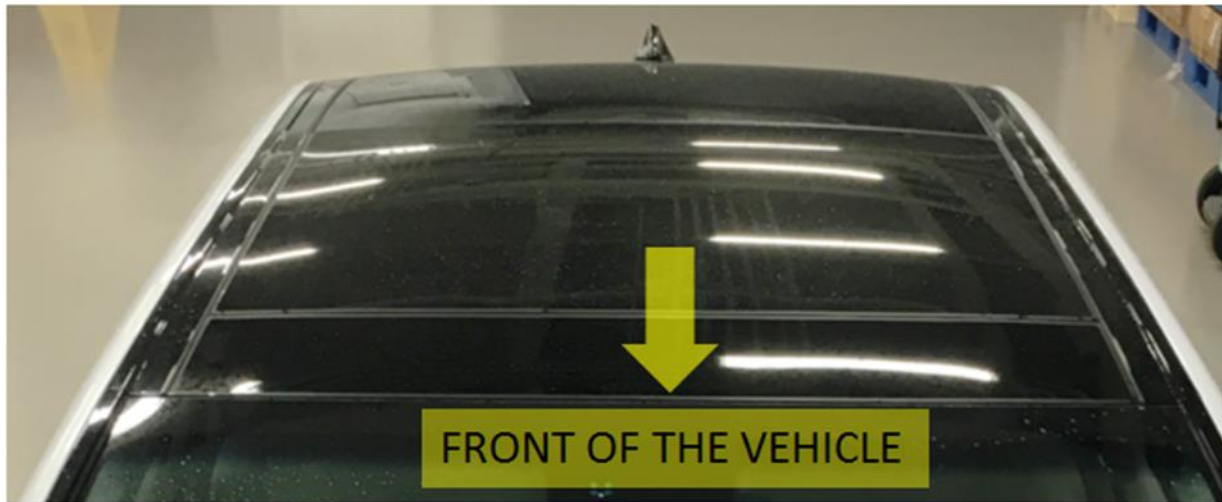
MODEL(S)

G80 (DH)

SUBJECT:

G80 (DH) PANORAMIC SUNROOF NOISE REPAIR

Description: This bulletin provides the procedure to repair the panoramic sunroof creaking noise originating from the panoramic moving glass assembly.



Applicable Vehicles: Certain 2017 – 2018 G80 (DH) equipped with panoramic sunroof

Parts Information:

Part Name	Figure / Part Number	Remarks
FELT PAD		2EA (106 X 10 X 0.5mm)
GREASE		Kluber Lubrication MicroLube GB 00

SUBJECT:**G80 (DH) PANORAMIC SUNROOF NOISE REPAIRS**

SILICONE OIL		MicroLubrol Type 200 Fluid Silicone Oil
LOCTITE 242		1 Vehicle : 2g
ACID BRUSH		Width:10mm / Length :20mm
PAPER		90 X 50mm

NOTE: Above parts can be purchased on www.Amazon.com or www.ebay.com or a similar online retailer.

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
G80	81600F04	SILICONE OIL APPLICATION AND DRIVE TEST	0.6 M/H	For Causal P/N: Refer to Parts Catalog based on repair procedure.	Q55	ZZ6
G80	81600F05	SILICONE OIL APPLICATION AND DRIVE TEST AND NOISE REPAIR	4.2 M/H	For Causal P/N: Refer to Parts Catalog based on repair procedure.	Q55	ZZ6

NOTE: Claim pays 0.2 M/H for parts purchase, which is included in the Op-Time.



Initial Evaluation

1.	Condition: Noise from panoramic sunroof area while driving. ("ticking" or "popping" noise)	
2.	Location: Noise can be heard at the center or rear of the panoramic sunroof glass.	
3.	Confirmation: Noise can be confirmed by tilting the sunroof glass up while driving. ->If noise does not occur when moving glass is tilted up, the TSB does not apply.	

Service Procedure:

1. Silicone Oil Application:

In some instances, creaking noise can originate from the door weather strip area which may be diagnosed as sunroof noise. To eliminate any noise concerns originating from the door weather strip, follow the silicone oil application procedure outlined below.

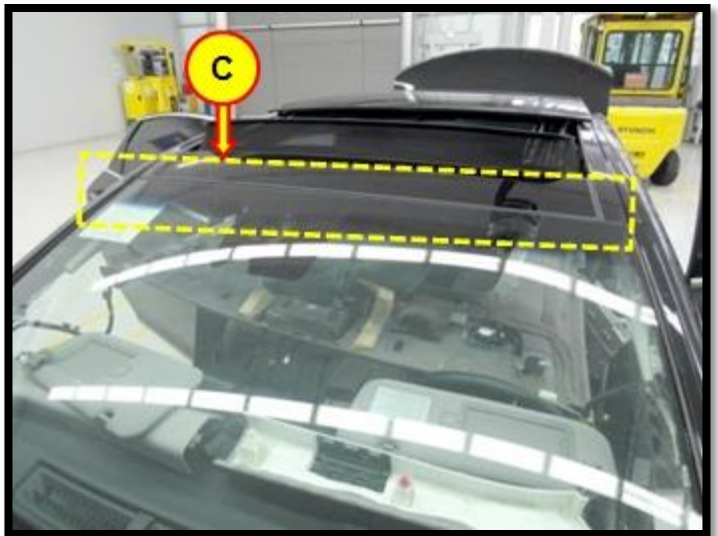
Wipe the front primary weather strip (B) using a clean towel (A).

NOTE:

Wipe the dust/dirt using a wet towel and then use a dry towel.



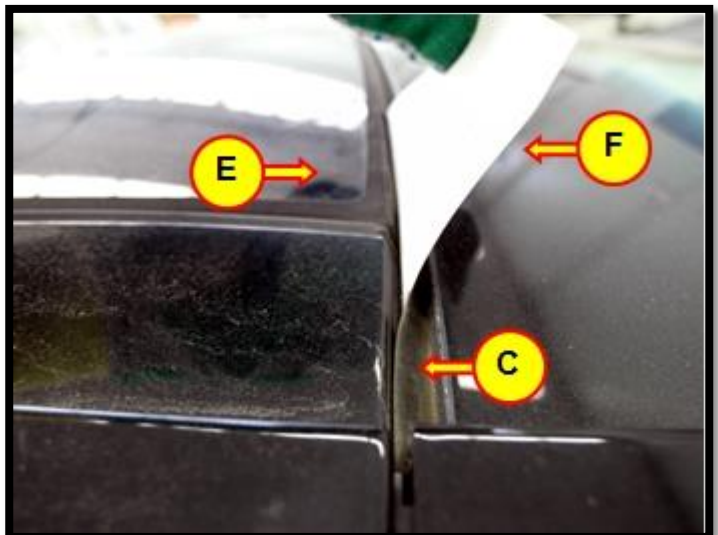
2. Apply the silicone oil (D) using a brush (G) to the front sunroof glass molding (C).



3. Insert a thin paper (F) between the front sunroof glass molding (C) and rear fixed glass (E).

**CAUTION**

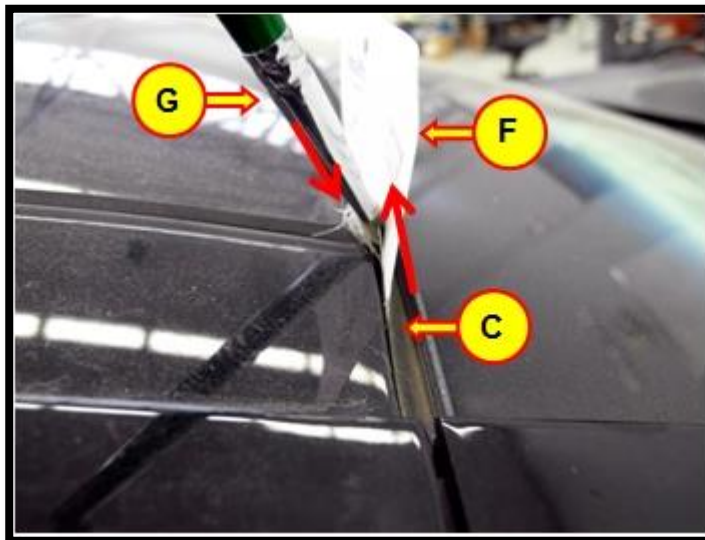
Ensure not to damage roof glass panel.



4. Insert the brush (G) between the front glass molding (C) and thin paper (F) to apply the silicone lubricant.

NOTE:

Apply about 5~7g oil per vehicle.



5. Apply the silicone oil (D) to the rear glass side similar to the front side procedure.



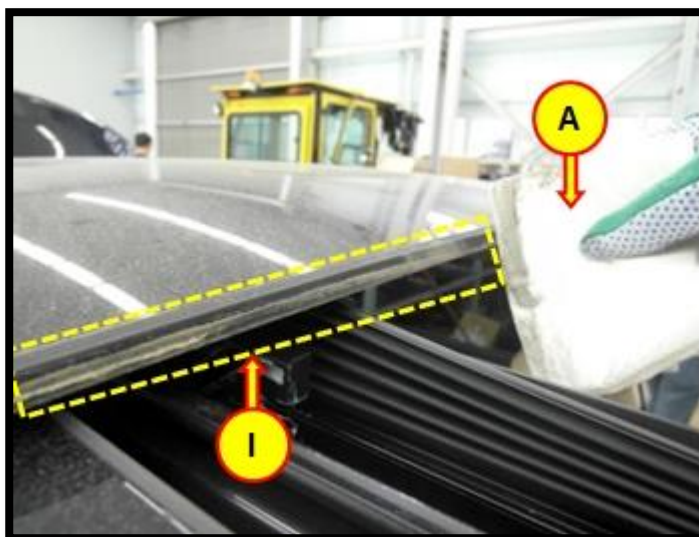
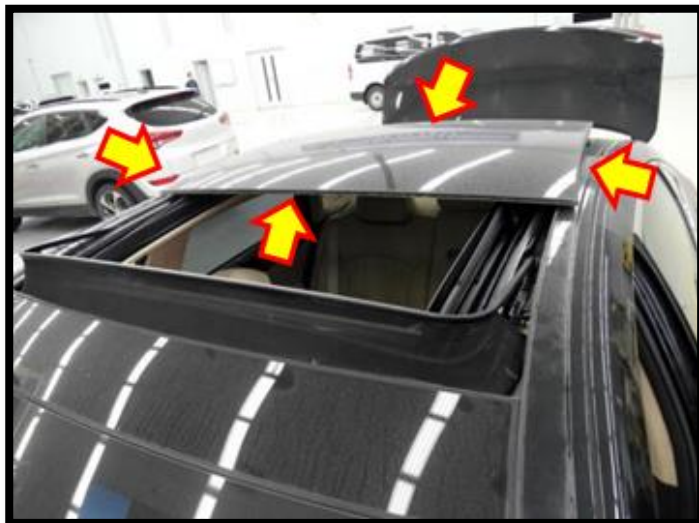
6. Push the sunroof switch (H) and open the panorama sunroof.



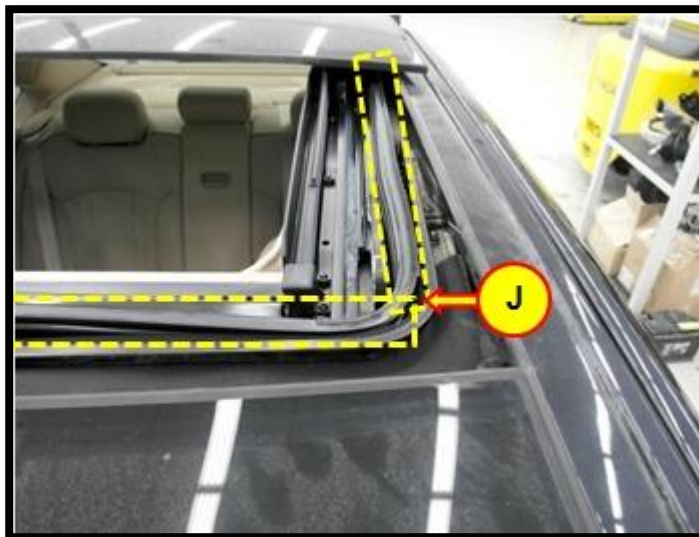
7. Using a clean towel (A), wipe all four edges of the moving glass (I).

NOTE:

Wipe using a wet towel first and then use a dry towel.



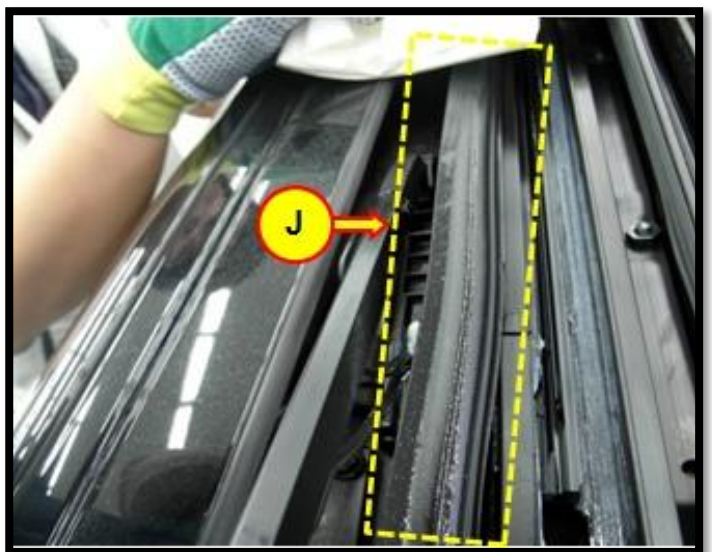
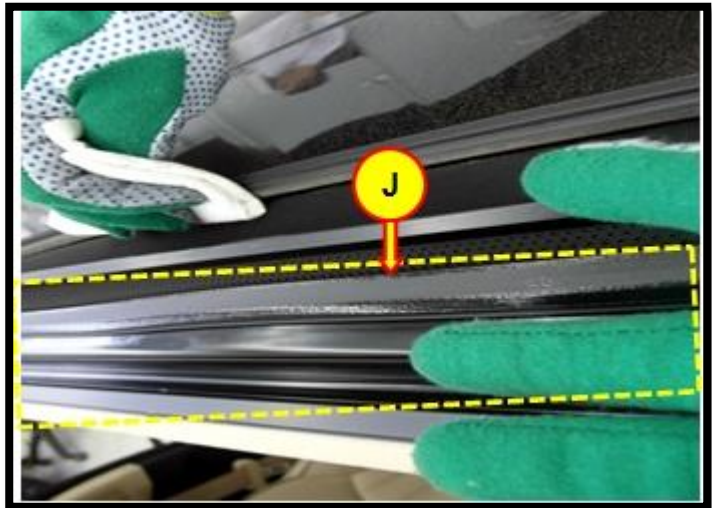
8. Check the position of the 'C' shape front fix seal (J).



9. Using a rag, clean the front and side fixed seal (J).

NOTE:

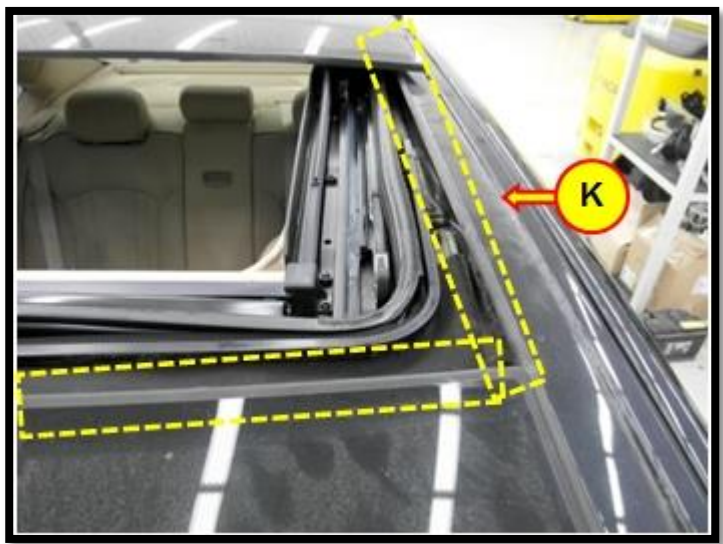
Wipe using a wet towel and then use a dry towel.

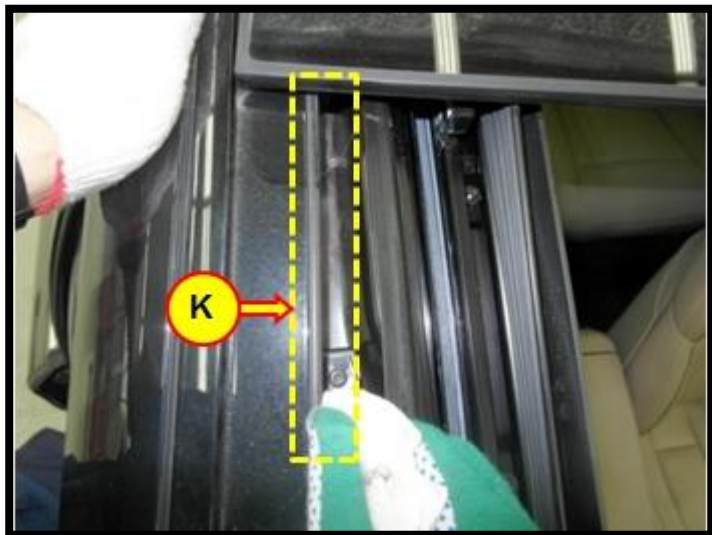


10. Using a rag, clean the front roof side molding (K).

NOTE

Wipe using a wet towel and then use a dry towel.

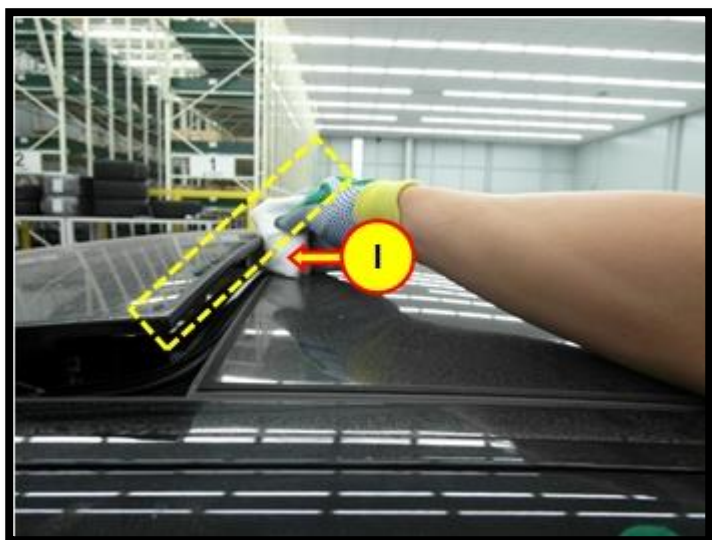




11. Clean the moving glass (I) side after tilting the front glass back side.

NOTE

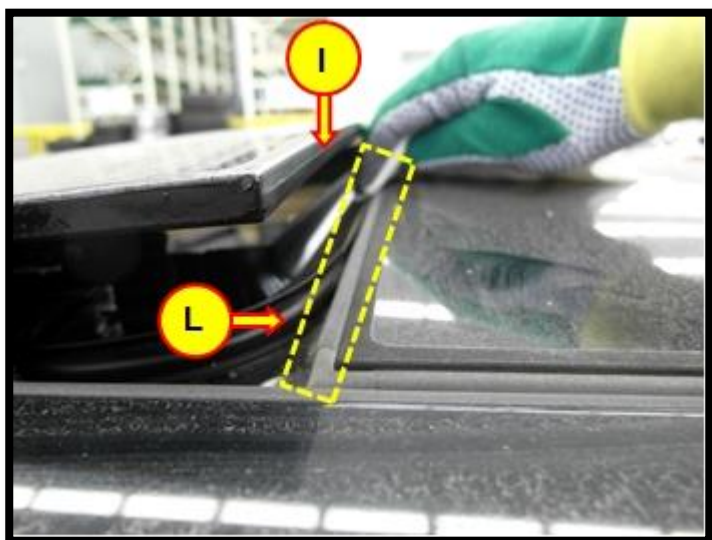
Wipe using a wet towel and then use a dry towel.



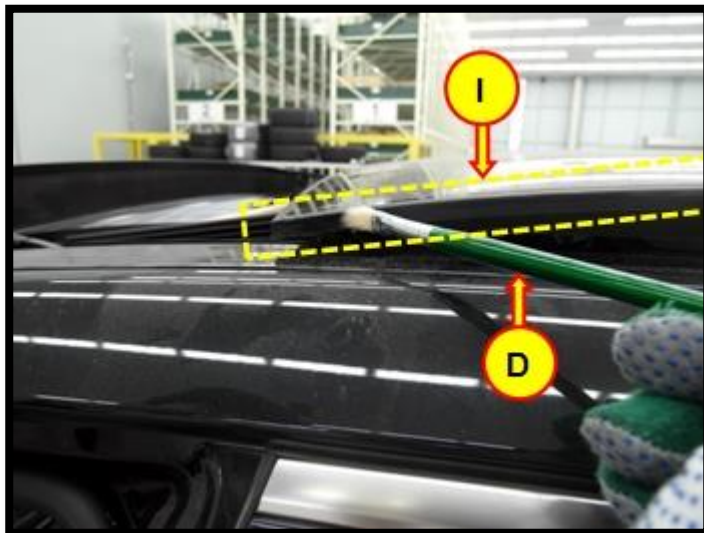
12. Clean the glass rear molding (L).

NOTE

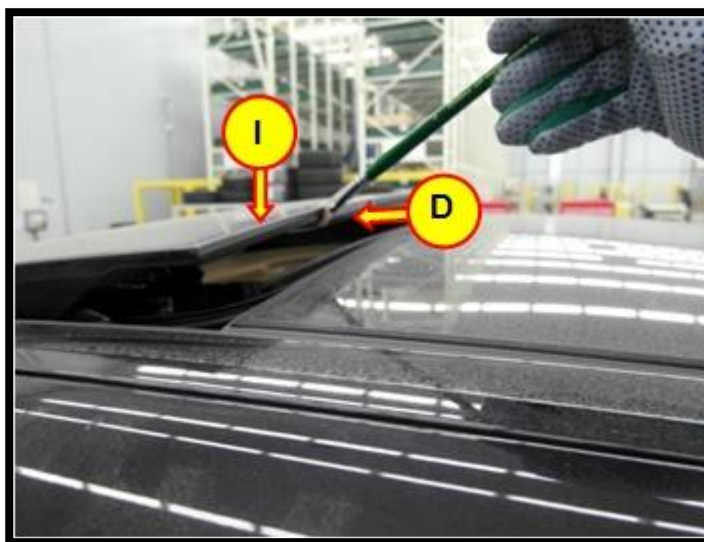
Wipe using a wet towel and then use a dry towel.



13. Apply the silicone oil (D) to all four edges of the front glass (I).



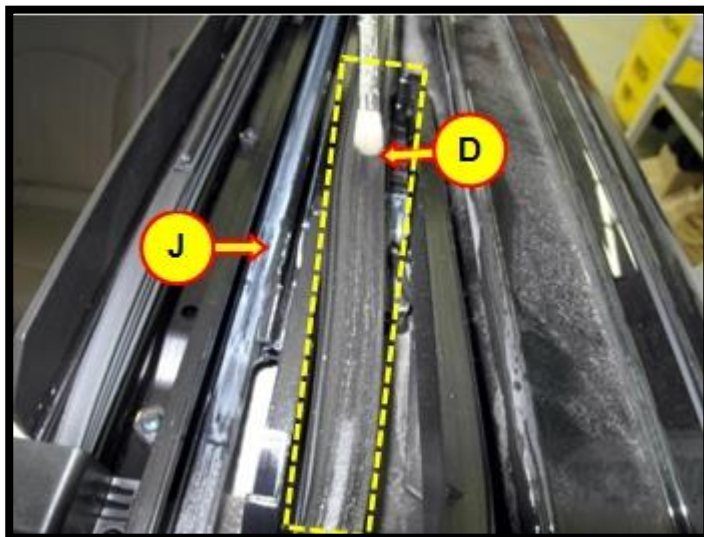
14. The silicone oil should be applied to the surface edge sides for the rear side. Apply the oil after tilting the moveable glass.



15. Apply the silicone oil (D) to the 'C' shape front fixed seal (J).

NOTE:

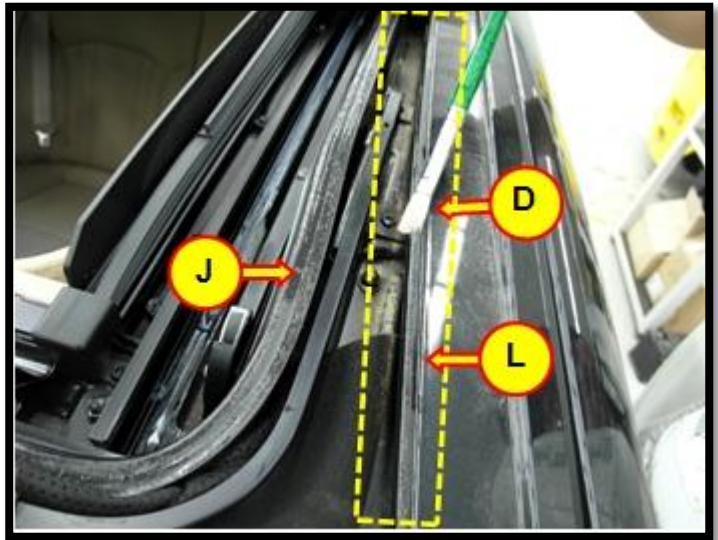
Apply the oil to the flat side of 'C' shape fix seal.



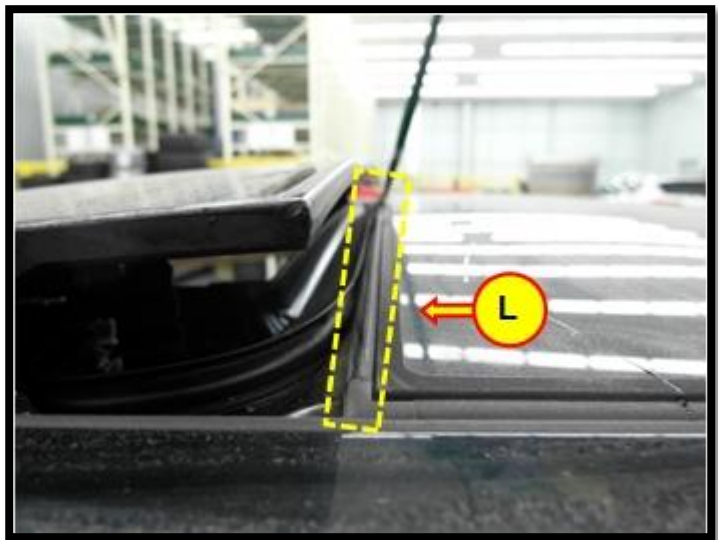
16. Apply the silicone oil (D) to the LH/RH side molding (L).

NOTE:

Apply the oil to the inner side.

**NOTE:**

For the rear side, apply the oil to the inner side after tilting.



17. Prepare a clean brush (M).

NOTE:

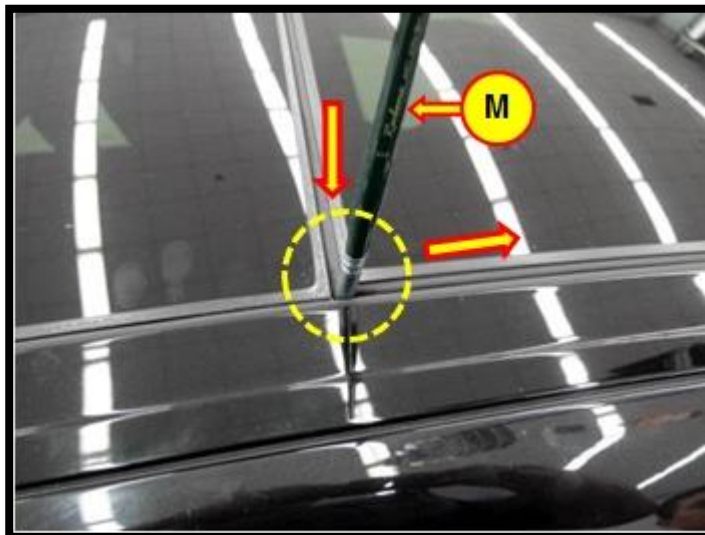
If the brush is contaminated, wipe it using a clean towel.



18. Insert the clean brush (M) fully into the moving glass rear side and push the foreign material by moving the brush to the rear.

NOTE:

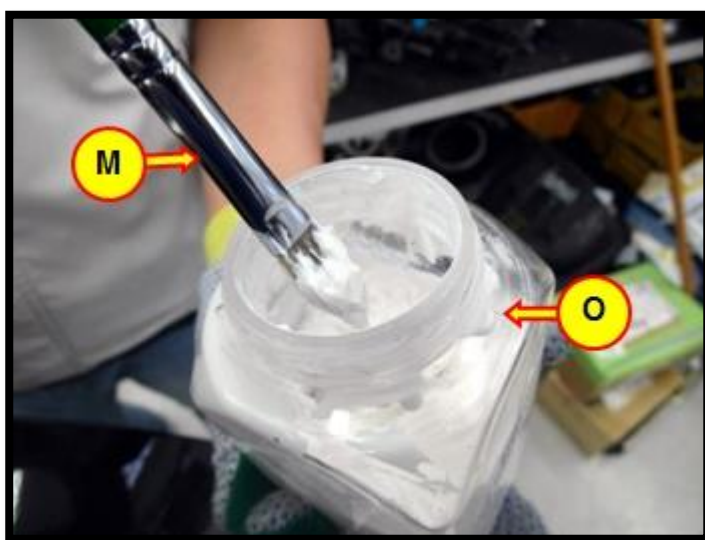
Perform procedure with the sunroof closed.



Move the brush to the end and repeat the procedure three times each for the LH/RH sides.



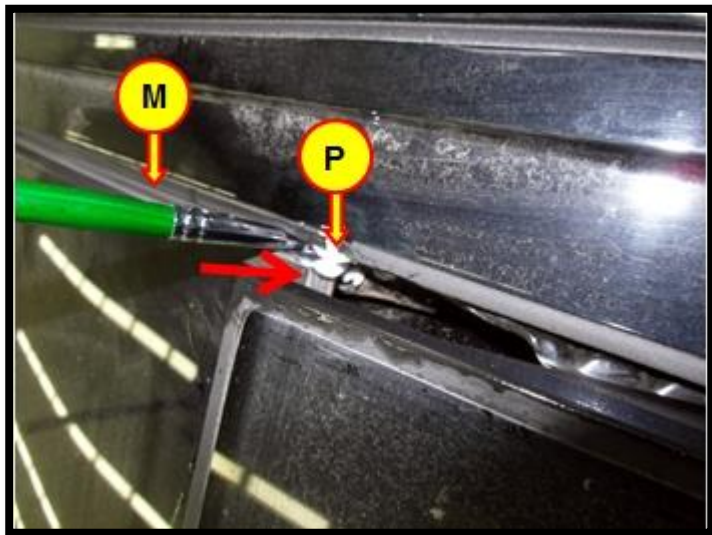
19. Coat the grease (O) to the dry brush (M).



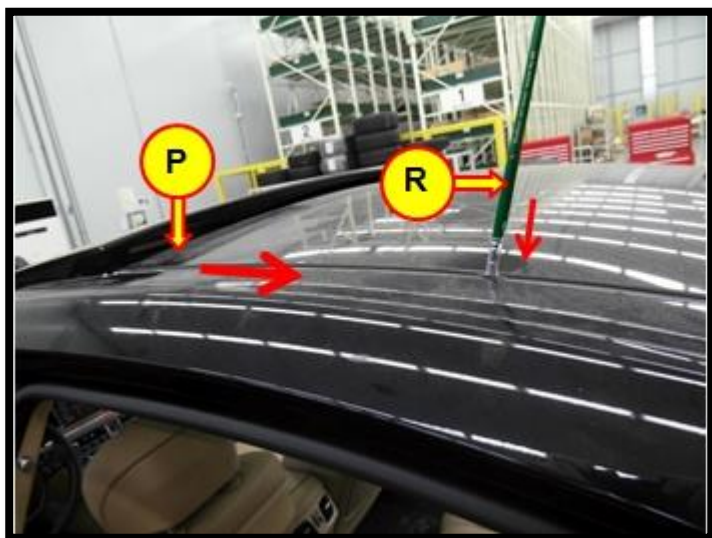
20. Apply grease twice to the mechanism rail assembly LH side.

NOTE:

Apply the grease from the moving glass rear (P) to rear end side (R).

**NOTE:**

Follow Steps 19-21 for RH side. Prepare a clean brush for RH side.
Apply ~15g of grease per vehicle

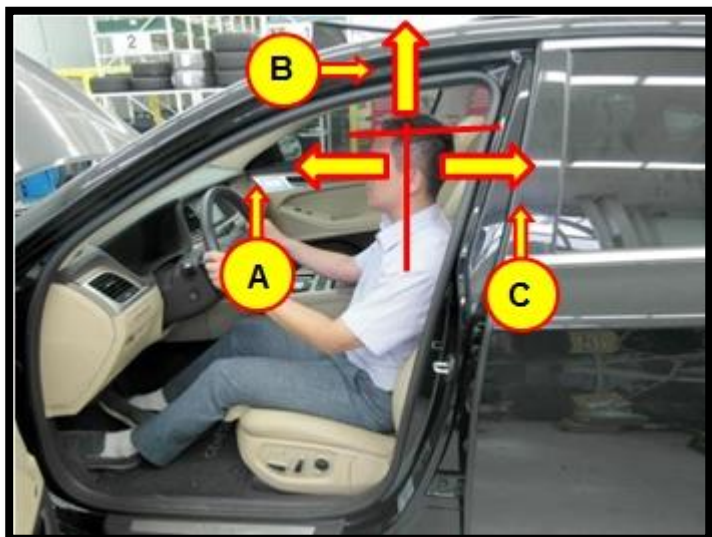
**PANORAMA SUNROOF NOISE INSPECTION:**

After the applying the silicone oil, perform the drive test with sunroof open and check for noise.

- If the noise is not observed, service procedure is complete.
- If noise is present, move to 'PANORAMA SUNROOF NOISE REPAIR' procedure.

NOTE

- (A) : front side noise.
(B) : upper side noise.
(C) : back side noise.



1. PANORAMA SUNROOF NOISE REPAIR:

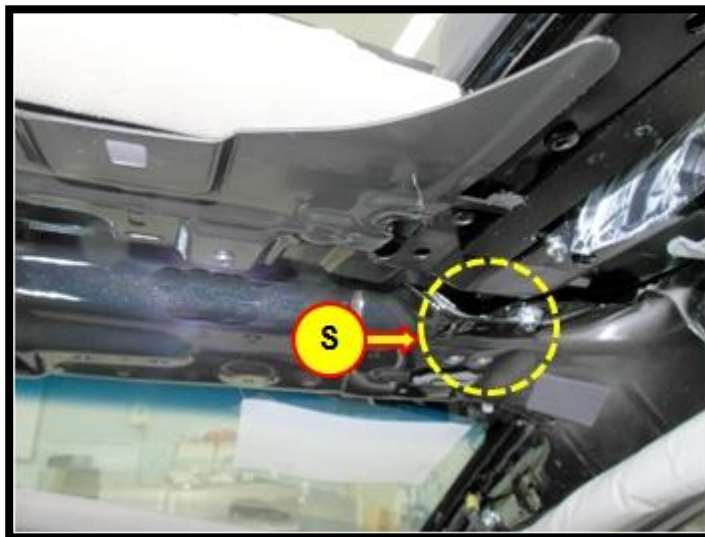
Panorama sunroof noise repair requires checking and torquing the sunroof fasteners to specifications.

To gain access to the sunroof fasteners, the headliner needs to be partially lowered. To lower the headliner, follow the procedure in the Shop Manual.

Shop Manual > G80 (DH) [2017-2018] > Body (Interior and Exterior) > Roof Trim > Roof Trim Assembly > Repair Procedures

NOTE: Disregard step 1 and 2 of the repair procedure in shop manual. Lowering the headliner will not require removal of the seat assembly.

2. Check the position of LH/RH sunroof front mounting side (S).

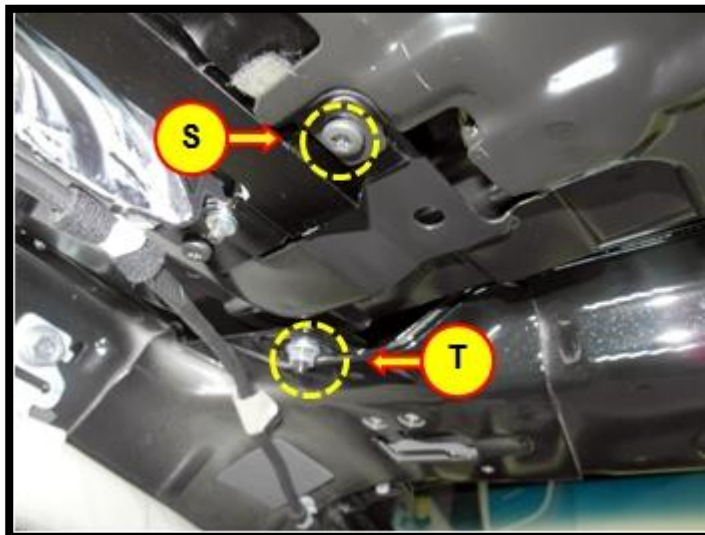


NOTE:

Check the tightening torque of bolts (S).

Tightening Torque :

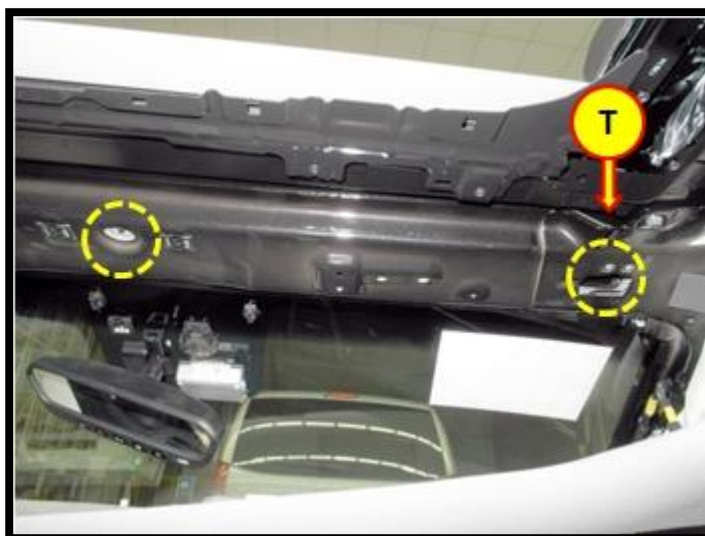
5.5 ~ 6.5 Nm (0.5 ~0.6 kgf.m, 4.0 ~ 4.7 lb-ft)



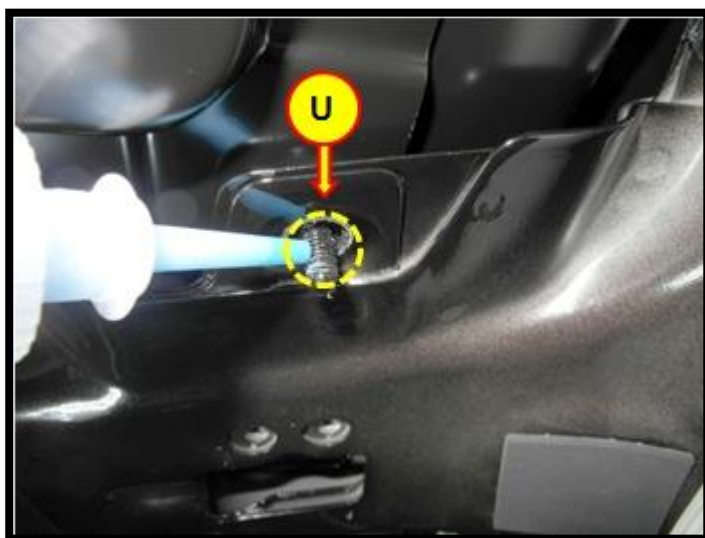
3. Loosen the front sunroof mounting nuts (T).

NOTE:

Front mounting nut : Total 3 EA (LH/RH, Center)



4. Apply the Loctite to the front sunroof mounting bolts (U).



NOTE:

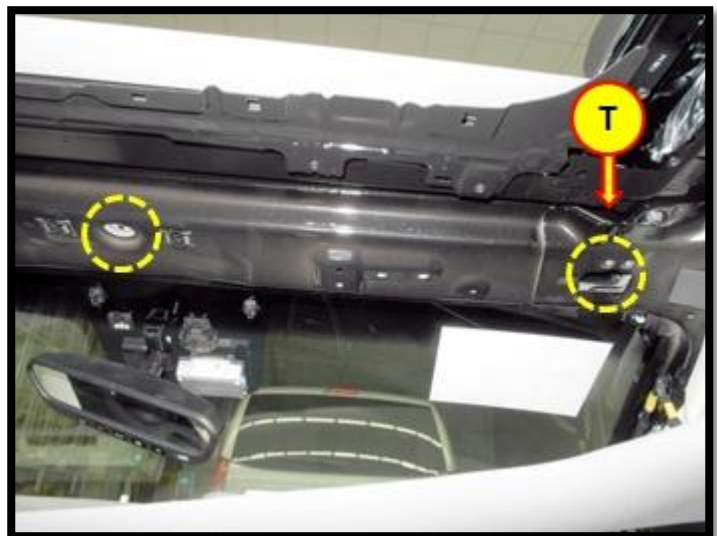
Apply the Loctite to the 3 bolts (LH/RH, Center).



5. Tighten the sunroof front mounting nuts (T) to the specified torque.

Tightening Torque :

7.8 ~11.8 Nm (0.7 ~ 1.2 kgf.m, 5.7 ~ 8.7 lb-ft)



6. Remove the mounting nuts (V) of 'B' pillar side LH/RH bracket.

NOTE:

Apply Loctite to the mounting bolts and retighten mounting nuts to specification.

Tightening Torque :

7.8 ~11.8 Nm (0.7 ~ 1.2 kgf.m, 5.7 ~ 8.7 lb-ft)



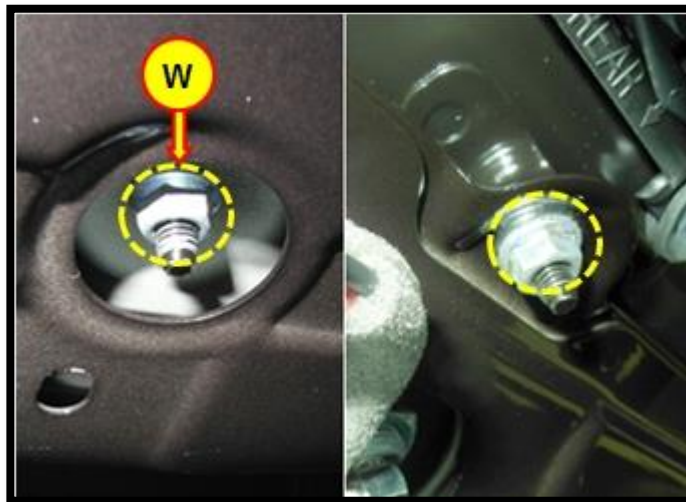
7. Remove the sunroof rear mounting nuts (W).

NOTE:

Apply Loctite to the 3 bolts (LH/RH, center) and retighten mounting nuts to specification.

Tightening Torque :

7.8 ~11.8 Nm (0.7 ~ 1.2 kgf.m, 5.7 ~ 8.7 lb-ft)



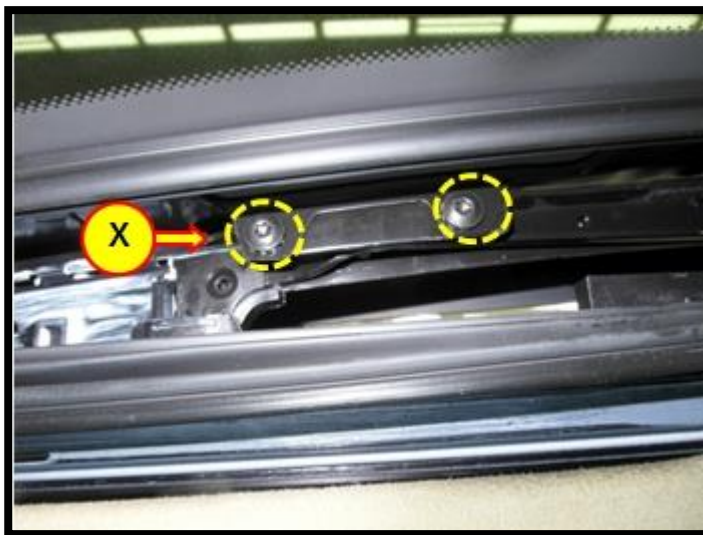
8. Open sunroof completely.



9. Remove the mounting bolts (X) on the moveable glass.

Tightening Torque :

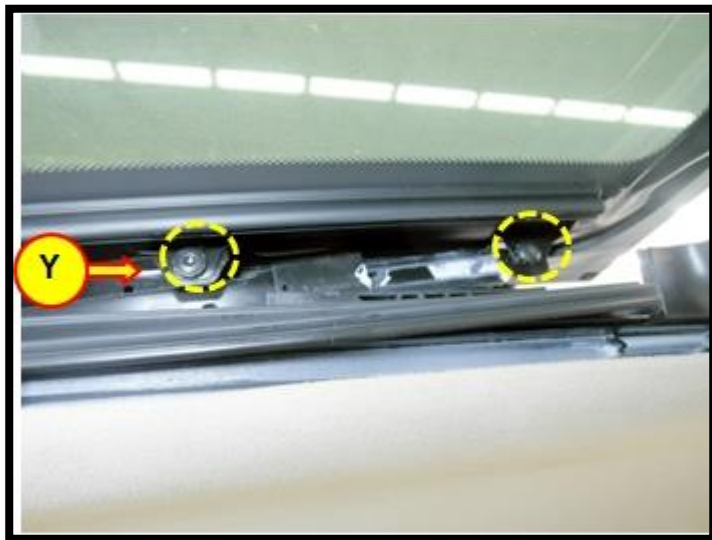
4.5 ~ 5.5 Nm (0.4 ~ 0.5 kgf.m, 3.3 ~ 4.0 lb-ft)



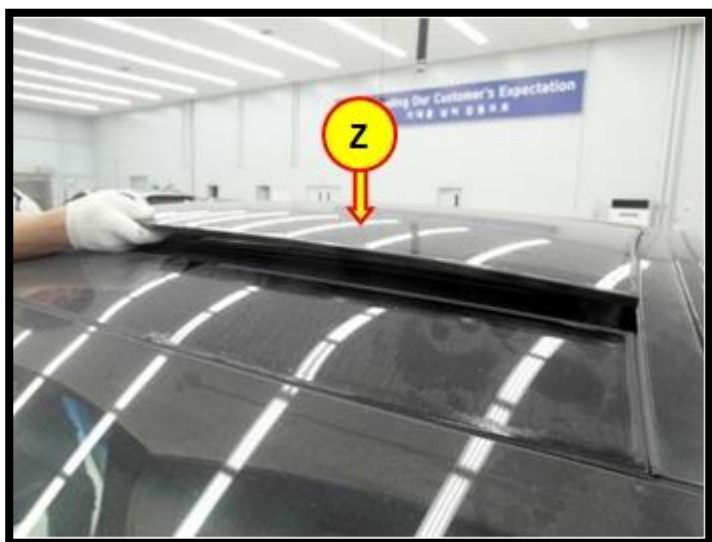
10. Remove the center & rear mounting bolts (Y).

Tightening Torque :

4.5 ~ 5.5 Nm (0.4 ~ 0.5 kgf.m, 3.3 ~ 4.0 lb-ft)



11. Remove the moving glass (Z).



CAUTION

When removing/installing the moving glass, be careful not to damage or scratch it.



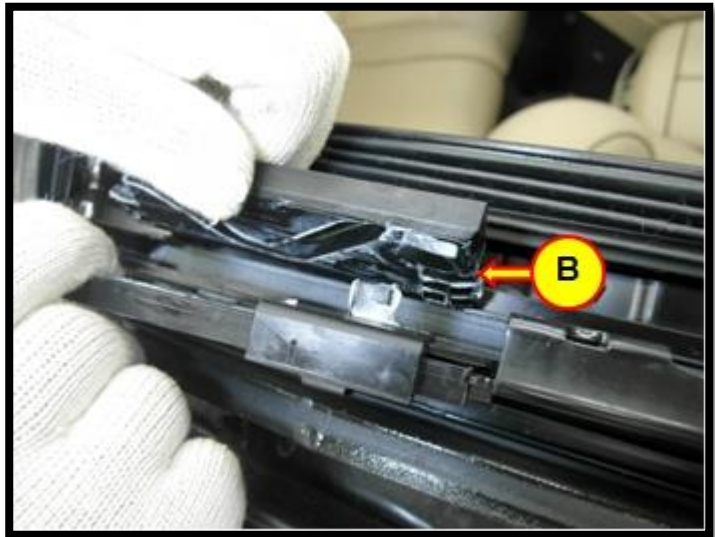
12. Remove the rear locator mounting bolts (A).

Tightening Torque :

4.5 ~ 5.5 Nm (0.4 ~ 0.5 kgf.m, 3.3 ~ 4.0 lb-ft)



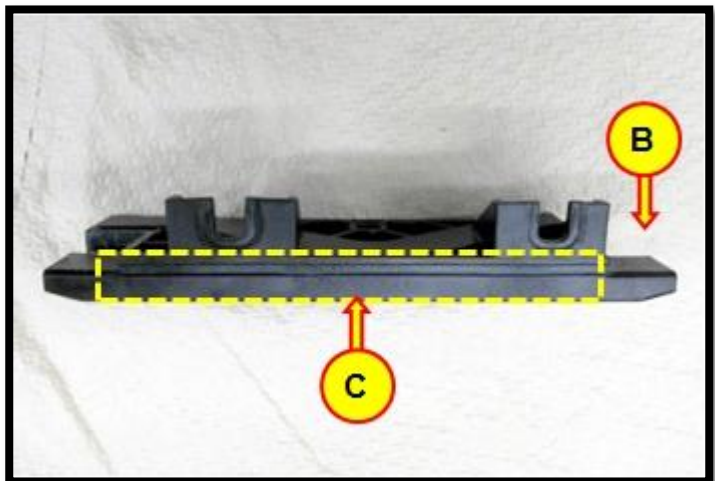
13. Remove the rear locator (B).



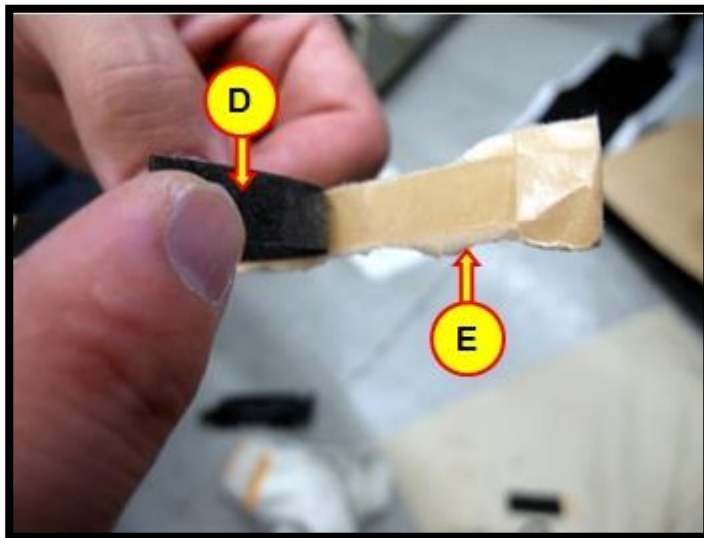
14. Place the rear locator (B) on its side, see reference picture to the right.

NOTE:

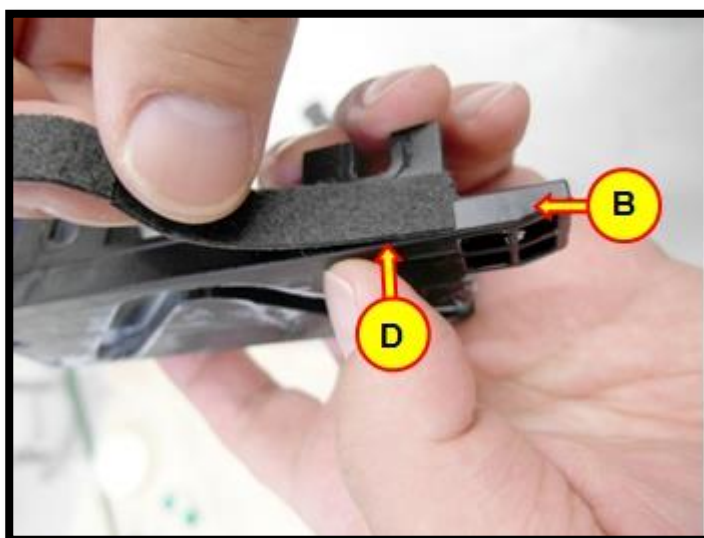
Pad will be attached to the locator lower section (C).



15. Remove the protective vinyl (E) of the pad (D).



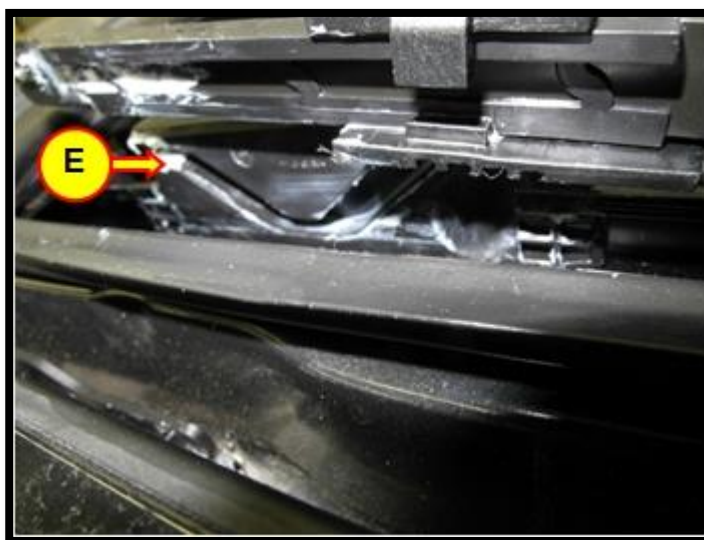
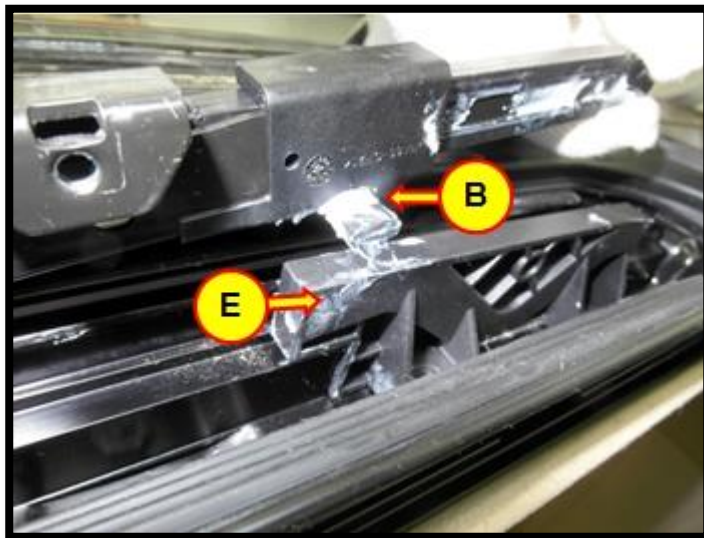
Attach the pad (D) to the locator lower side (B).



16. Re-install the locator (E).

NOTE:

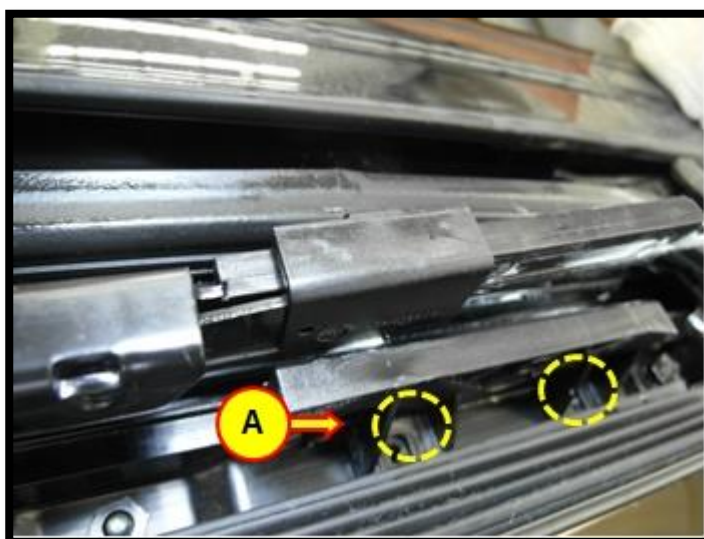
Insert the protrusion side (B) on the curve panel to the locator groove (E).



17. Tighten the locator mounting bolts (A).

Tightening Torque :

4.5 ~ 5.5 Nm (0.4 ~ 0.5 kgf.m, 3.3 ~ 4.0 lb-ft)



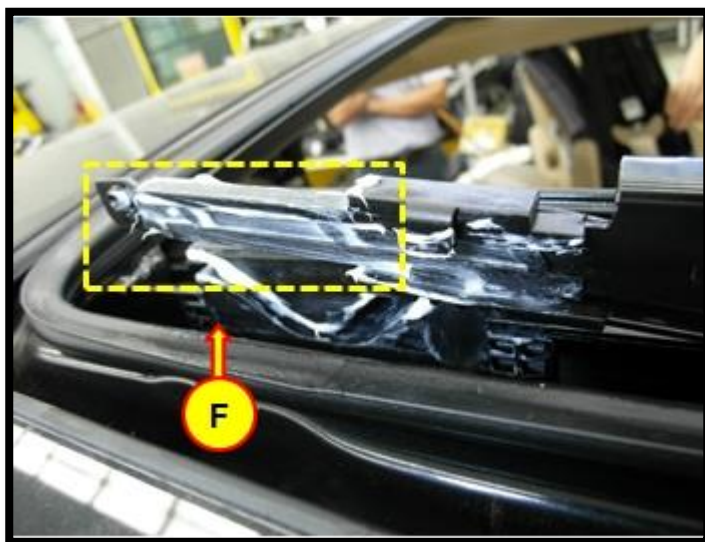
18. Apply grease to the locator groove (E).

**CAUTION**

Apply the grease evenly on the locator.
Be careful not to get grease on surrounding components.



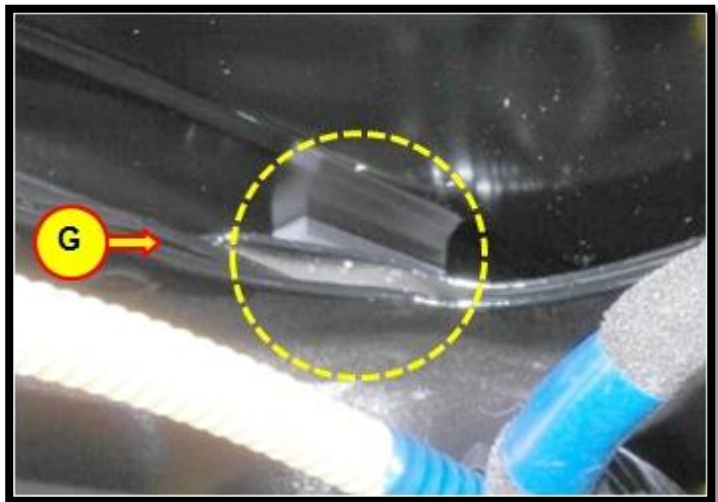
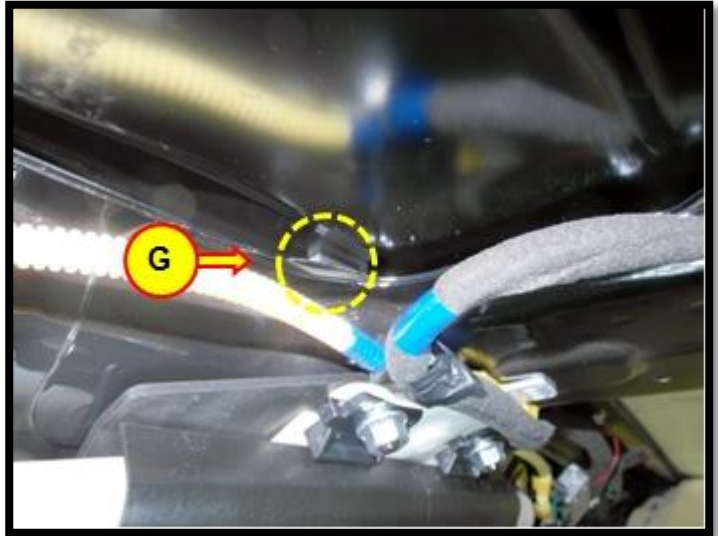
19. Apply grease to the 4 surfaces (F) of curve on panel.

**NOTE:**

Complete procedure on both LH/RH sides.



20. Check the gap (G) on the edge of the 'C' pillar roof panel side.

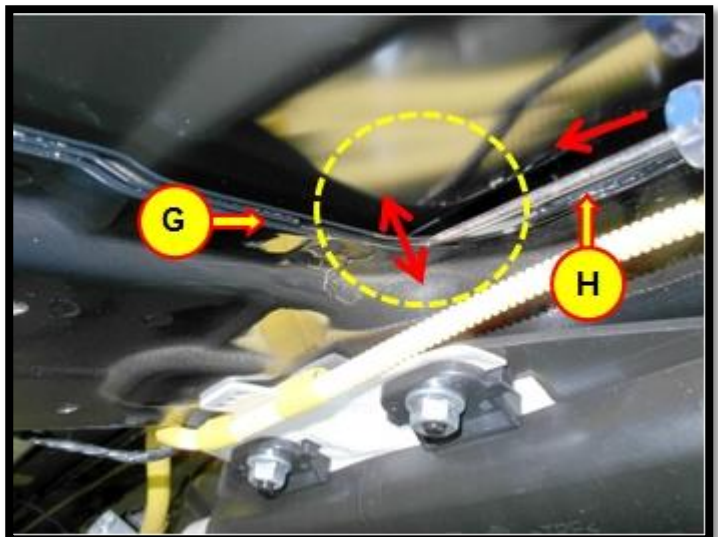


21. Carefully insert a flat screw driver (H) 3~5mm into the gap (G).

NOTE

Gently pry (~30 degree angle) the gap using the flat screw driver.

Complete procedure on LH/RH side.



22. Reinstall all removed parts in reverse order.

Perform the test drive and check if noise is no longer present.

Service procedure is now complete.