



Technical Service Bulletin

GROUP

BODY

NUMBER

20-BD-001HG

DATE

January 2019

MODEL(S)

G80 (DH)

SUBJECT:

G80 (DH) PANORAMIC SUNROOF REPAIR

This TSB supersedes 19-BD-001HG to add Inoperative Slide as a new condition and update the service procedure.

Description:

This bulletin provides instruction detailing the repair of a panoramic sunroof exhibiting the following condition(s):

- Creaking Noise
- Inoperative Slide

Applicable Vehicles: Certain 2017-2018 G80 (DH) vehicles equipped with panoramic sunroof.

Required Materials/Tools:

Tool	Part Number	Remarks	Photo
FELT PAD	N/A	2 EA (106 X 10 X 0.5 mm)	
GREASE	N/A	Use Generic Grease	
SILICONE OIL	N/A	Use Generic Silicone Oil	
LOCTITE 242	N/A	1 Vehicle : 2g	
ACID BRUSH	N/A	Width:10mm / Length :20mm	
PAPER	N/A	90 X 50mm	
FLAT-HEAD SCREW DRIVER	N/A	Width; 5-8mm	

NOTE: Parts can be purchased at an online retailer (Amazon/eBay).

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
G80 (DH)	81600F04	Silicone Oil Application and Drive Test	0.6 M/H	81600-XXXXX	Q55	ZZ6
G80 (DH)	81600F05	Silicone Oil Application and Drive Test and Noise Repair	4.2 M/H	81600-XXXXX	Q55	ZZ6

NOTE 1: Claim includes 0.2 M/H of Op. Time for parts purchase.

NOTE 2: Refer to the parts catalog for the complete part number of the sunroof assembly.

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

Initial Evaluation:

			
CONDITION	LOCATION	CONFIRMATION	REJECTION
During driving, ticking or popping noise/slide non-operation occurs from panoramic sunroof location.	Noise/slide non-operation generally occur from the center or rear of the panoramic sunroof glass.	Noise/slide inoperation confirmed by operating sunroof while driving.	THIS TSB DOES NOT APPLY if either condition does not occur while operating sunroof during driving.

Sunroof Orientation:



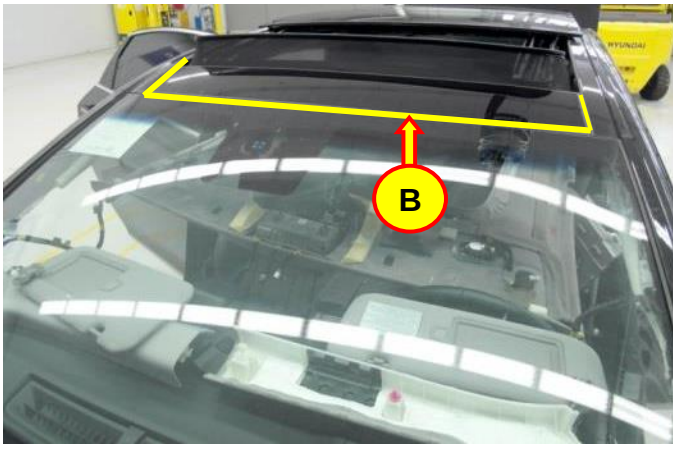
Procedural Table of Contents:

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B. Front Sunroof Glass Molding (pg. 4)	M. Front Sunroof Mounting Bolts (pg. 10-11)
C. Rear Fixed Glass (pg. 4)	N. Front Sunroof Mounting Nuts (pg. 10-11)
D. Rear Sunroof Glass Molding (pg. 4)	O. 'B' Pillar Mounting Nuts (pg. 11)
E. Sunroof Button (pg. 5)	P. Sunroof Rear Mounting Nuts (pg. 12)
F. Moving Glass (pg. 5,7,13)	Q. Moving Glass Front Mounting Bolts. (pg. 12)
G. Front Corner Fixed Seal (pg. 5-6,8)	R. Moving Glass Center/Rear Mounting Bolts (pg. 13)
H. Front Sunroof Side Molding (pg. 6)	T. Rear Locator Mounting Bolts (pg. 13-16)
I. Rear Glass Molding (pg. 7)	U. Rear Locator (pg. 14-16)
J. LH/RH Side Molding (pg. 8)	S. Panel Curve (pg. 15-16)
K. Mechanism Rail Assembly (pg. 9)	V. 'C' Pillar Roof Panel (pg. 17)

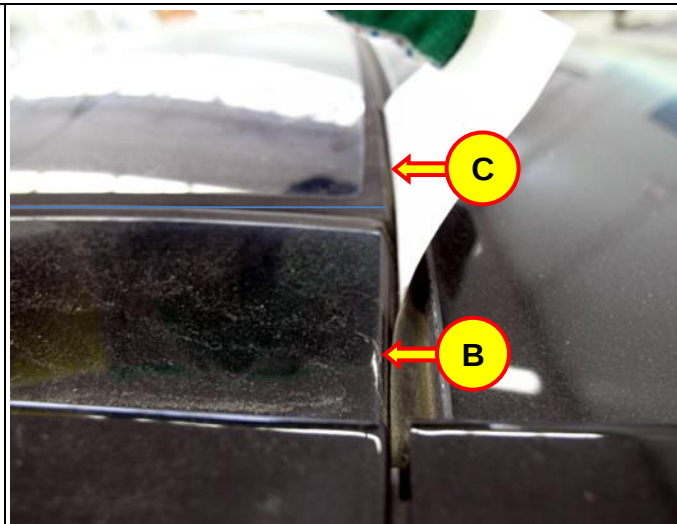
Repair Procedure:

A.	<u>SILICONE OIL APPLICATION</u> 1. Wipe the front primary weather strip (A) using clean towels. NOTICE Apply a damp towel to surface, then apply a dry towel to remove wetness.	
	2. Apply silicone oil to the front sunroof glass molding (B) using an acid brush.	

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

**CAUTION**

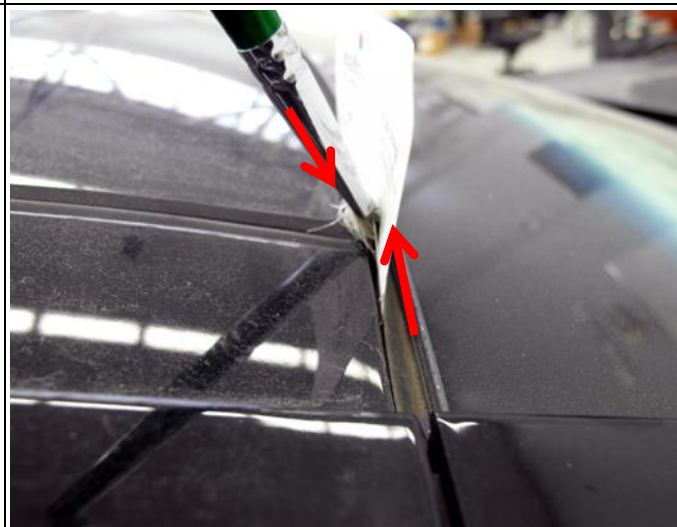
Prevent all damage to glass!



4. Apply silicone oil between the front sunroof glass molding (B) and paper using the acid brush.

NOTICE

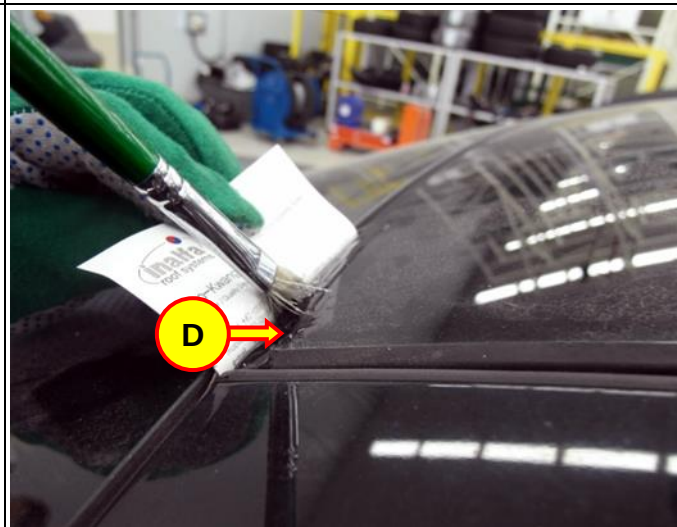
Apply approximately 5-7g of silicone oil.



5. Apply silicone oil between the rear sunroof glass molding (D) and paper using the acid brush.

NOTICE

Apply approximately 5-7g of silicone oil.



6. Press the sunroof button (E) to open the panoramic sunroof.



7. Wipe all edges of the moving glass (F) using clean towels.

NOTICE

Apply a damp towel to surface, then apply a dry towel to remove wetness.



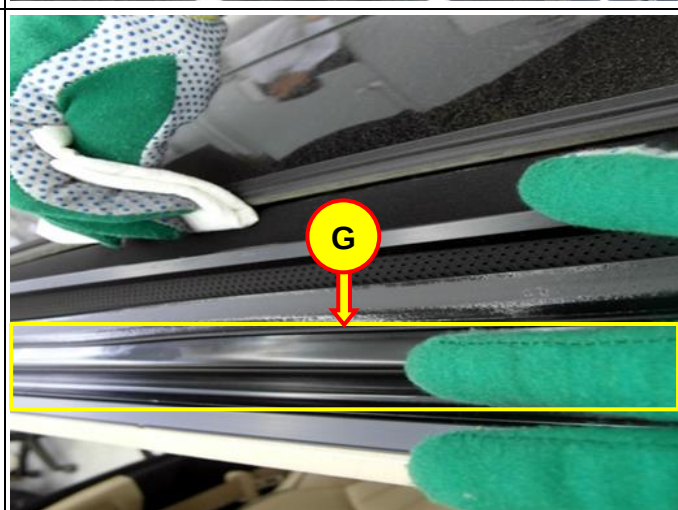
8. Locate the front corner fixed seal (G).

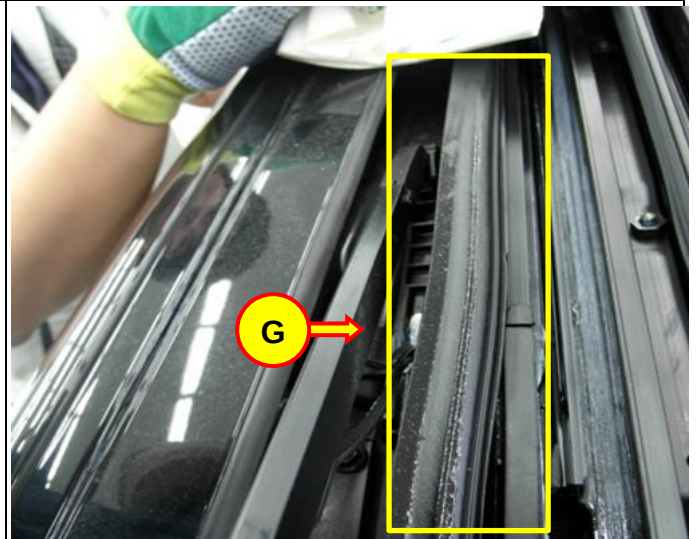


9. Wipe the front and side fixed portions of the front corner fixed seal (G) using clean towels.

NOTICE

Apply a damp towel to surface, then apply a dry towel to remove wetness.

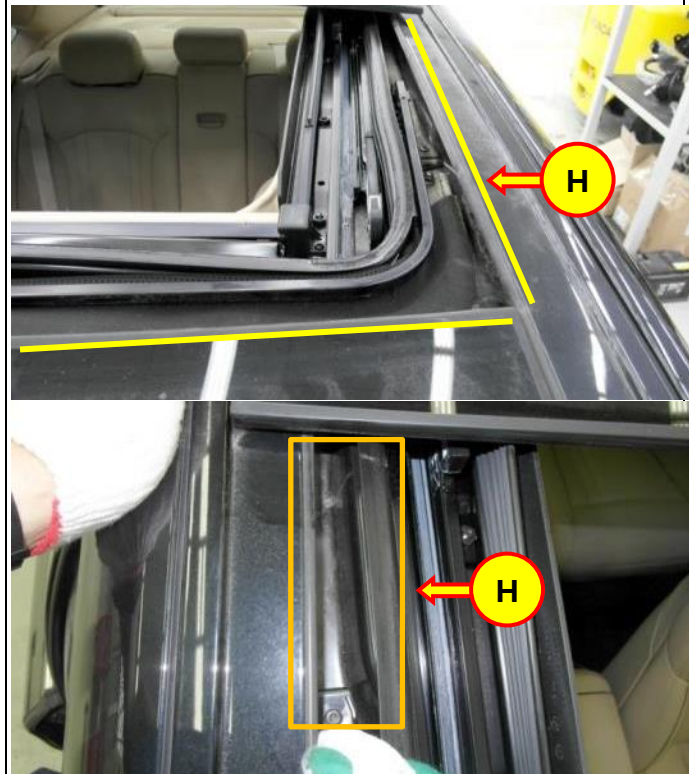




10. Wipe the front roof side molding (H) using clean towels.

NOTICE

Apply a damp towel to surface, then apply a dry towel to remove wetness.



11. Position the front glass to the “tilt” position. Wipe the moving glass side (F) using clean towels.

NOTICE

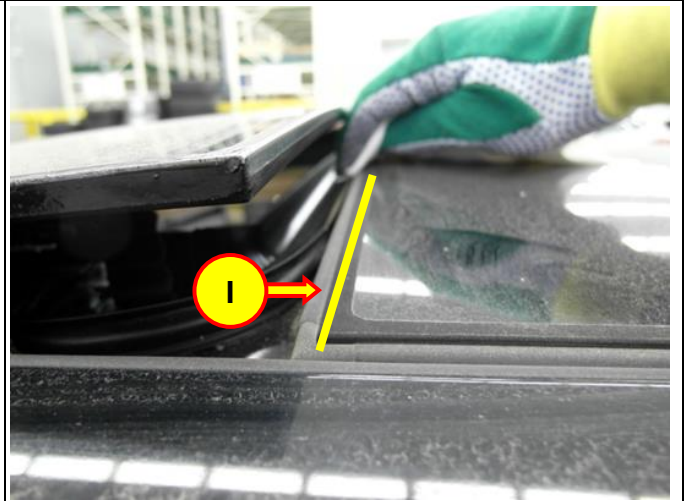
Apply a damp towel to surface, then apply a dry towel to remove wetness.



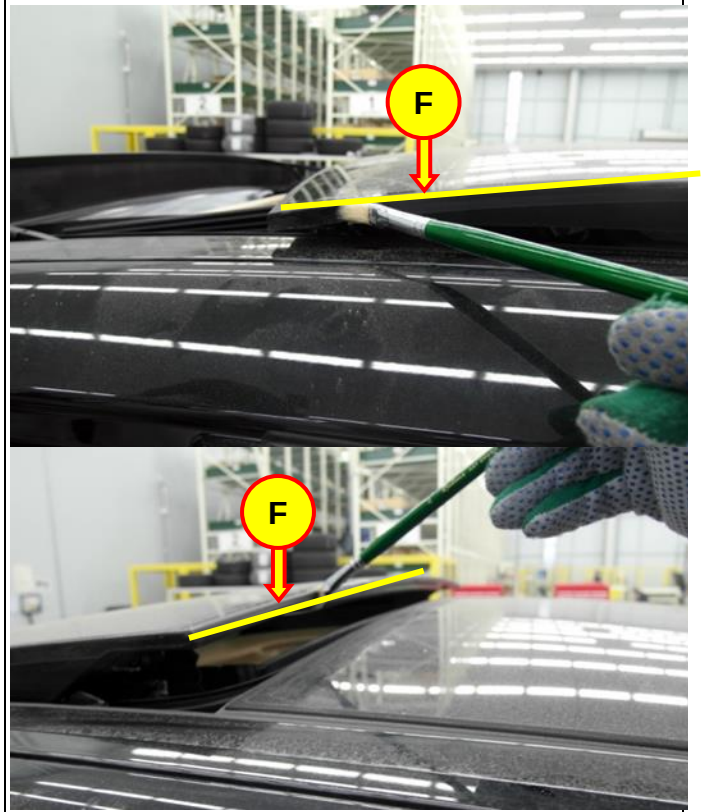
12. Wipe the rear glass molding (I) using clean towels.

NOTICE

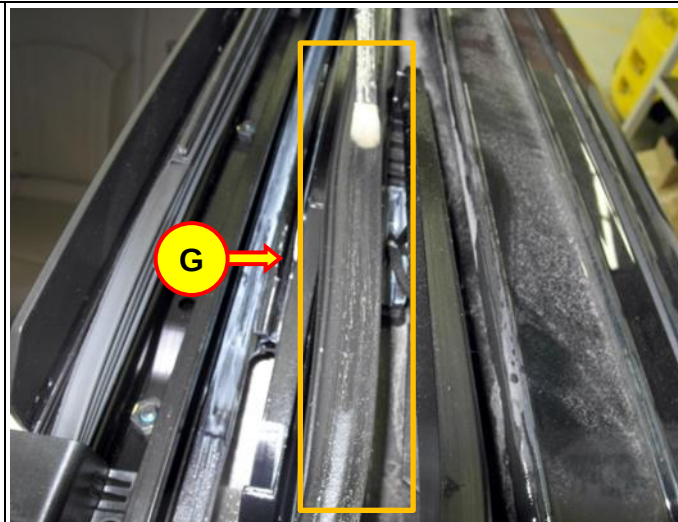
Apply a damp towel to surface, then apply a dry towel to remove wetness.



13. Apply silicone oil to all surface edges of the front moving glass (F).



14. Apply silicone oil to the flat side of the front corner fixed seal (G).



15. Apply silicone oil to the inner LH/RH side glass molding (J).

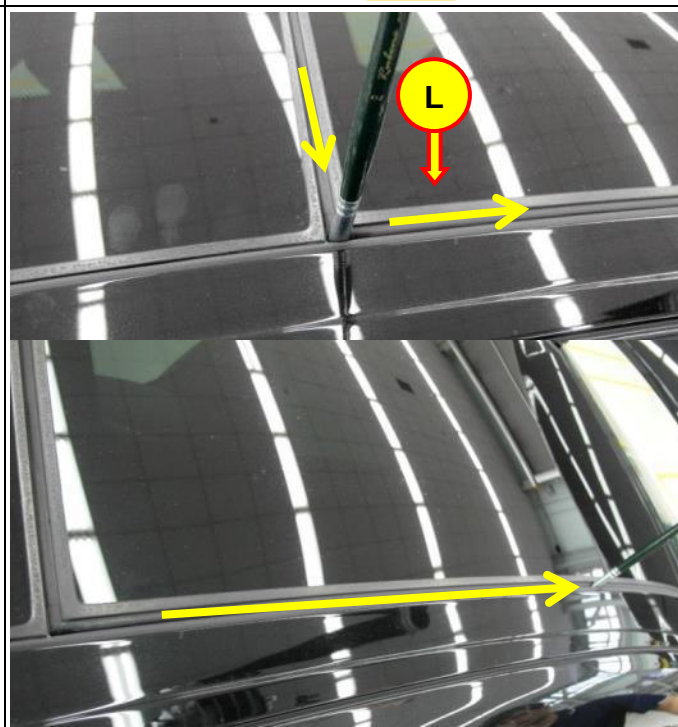


16. Fully insert a clean acid brush into the moving glass rear side (L). Dislodge and remove any foreign material by moving the brush front-to-rear multiple times. Perform this movement for both LH/RH sides.



CAUTION

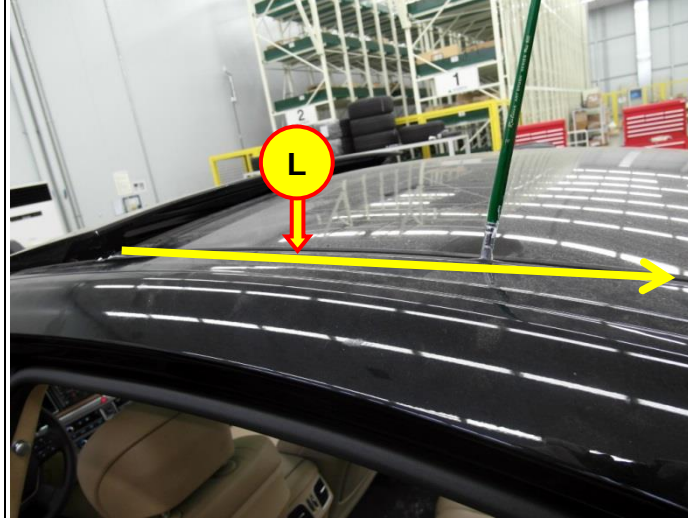
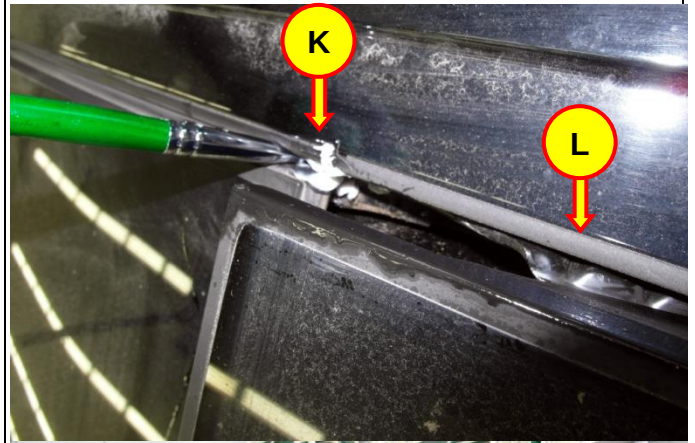
Perform process step with sunroof closed.



17. Apply grease to mechanism rail assembly (K) using the acid brush. Apply grease by moving the acid brush from the glass rear (L) to the rear end. Perform identical actions for both LH/RH sides.

NOTICE

Apply approximately 15g of grease.

**B.****PANORAMIC SUNROOF INSPECTION**

1. After silicone oil and grease application, open and close the sunroof and set the sunroof to the "tilt" position. Inspect for noise or slide non-operation.

NOTICE

If noise or slide non-operation is not observed, the service procedure is now complete.

Reference

If creaking/slide non-operation still occurs, move to:

C) PANORAMIC SUNROOF REPAIR

C.**PANORAMIC SUNROOF REPAIR**

1. The repair of the panoramic sunroof requires sunroof fastener inspection and, if needed, torque to specifications.

To access the sunroof fasteners, the headliner must be partially lowered. To lower the headliner, review the following vehicle shop manual section.

Shop
Manual

Genesis
(DH) 2015-
2016

Body
(Interior and
Exterior)

Roof Trim

Roof Trim
Assembly

Repair
Procedures

NOTICE

Disregard steps (1-2) of the shop manual repair procedure. Lowering the headliner will not require removal of the seat assembly.



2. Verify the position of the LH/RH front sunroof mounting sides.

Inspect the front sunroof mounting bolts (M) tightening torque. See below for the correct torque specification:

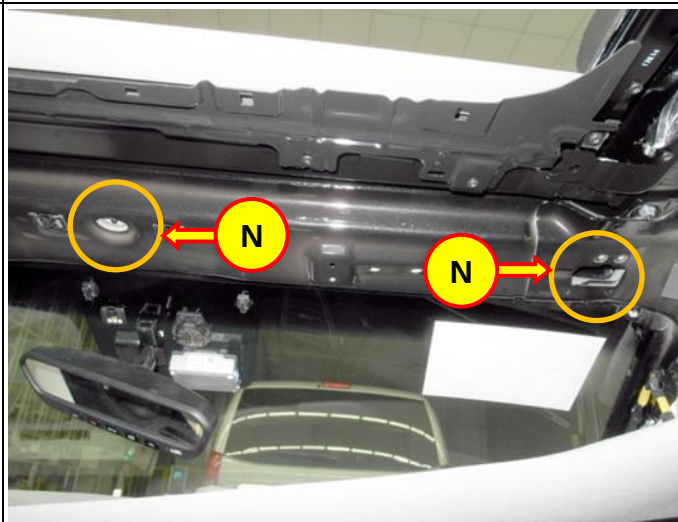
N.m • 5.5-6.5

kgf.m • 0.5-0.6

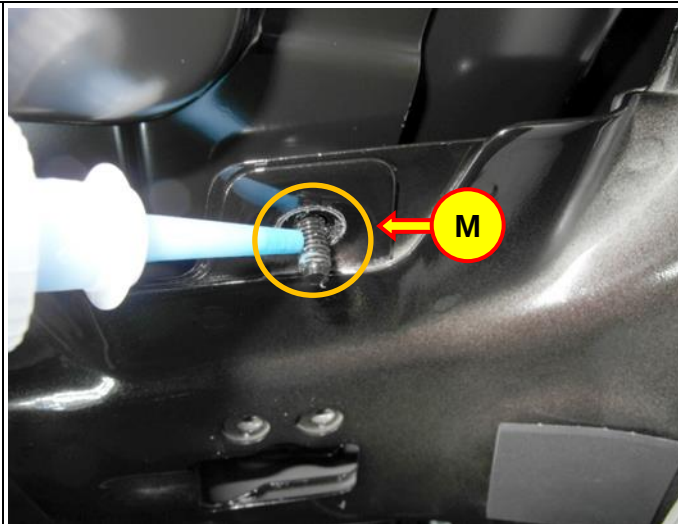
lb-ft • 4.0-4.7



3. Remove the front sunroof mounting nuts (N).

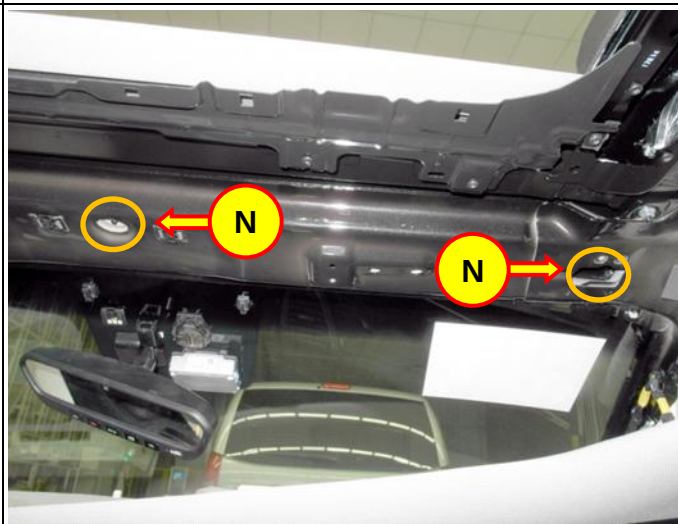


4. Apply Loctite 242 to the front sunroof mounting bolts (M).



5. Re-tighten the front sunroof mounting nuts. See below for the correct torque specification:

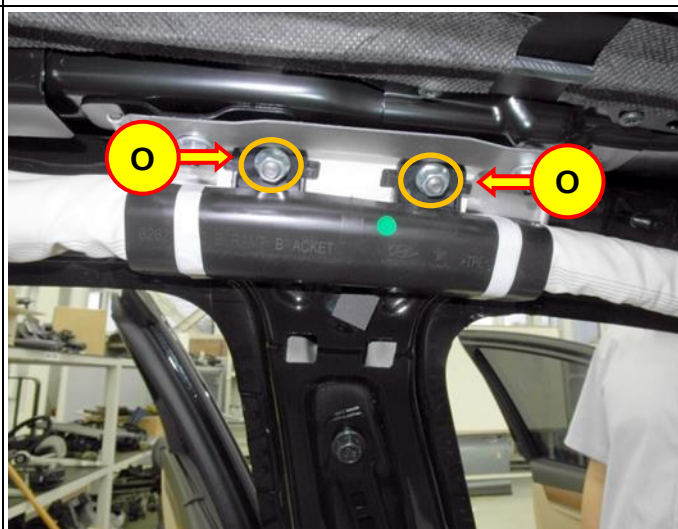
N.m	• 7.8-11.8
kgf.m	• 0.7-1.2
lb-ft	• 5.7-8.7



6. Remove the 'B' pillar mounting nuts (O) located on the LH/RH bracket.

Apply Loctite 242 to the 'B' pillar mounting bolts and re-tighten mounting nuts. See below for the correct torque specification:

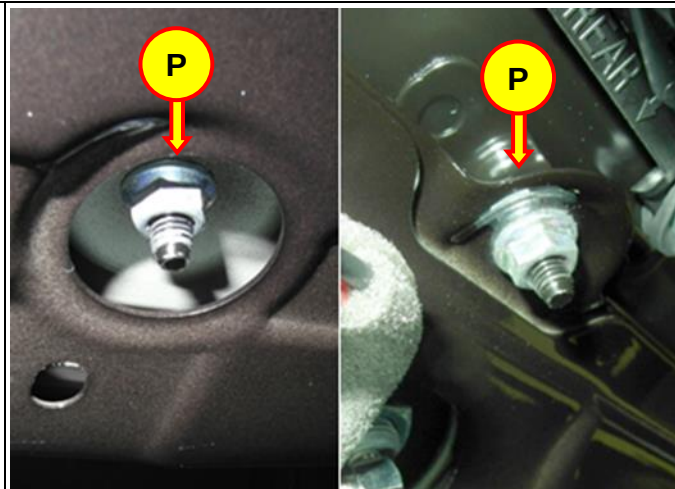
N.m	• 7.8-11.8
kgf.m	• 0.7-1.2
lb-ft	• 5.7-8.7



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

Apply Loctite 242 to the rear mounting bolts and re-tighten. See below for correct torque specification:

N.m	• 7.8-11.8
kgf.m	• 0.7-1.2
lb-ft	• 5.7-8.7



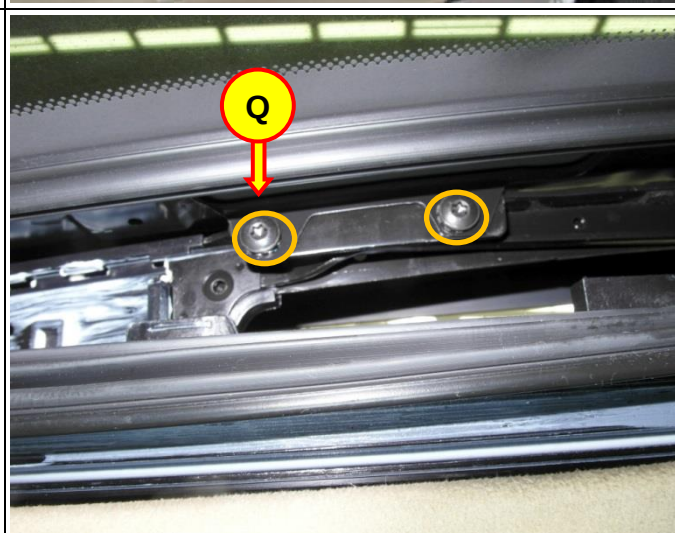
8. Open the sunroof completely.



9. Remove the moving glass front mounting bolts.

Apply Loctite 242 to the mounting bolts and re-tighten. See below for the correct torque specification:

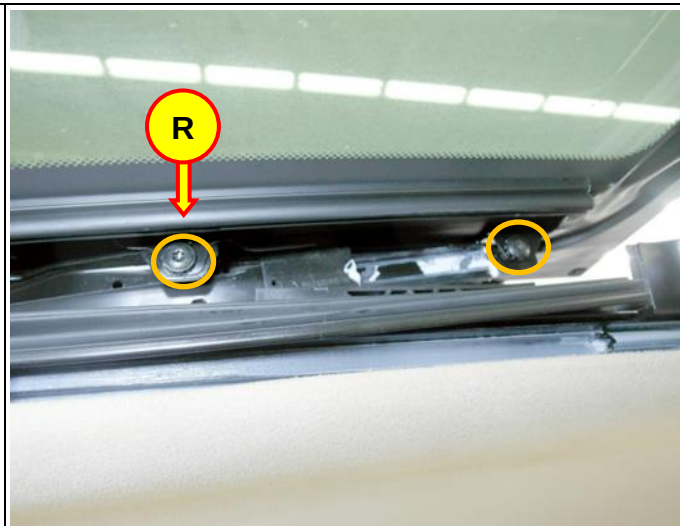
N.m	• 4.5-5.5
kgf.m	• 0.4-5
lb-ft	• 3.3-4.0



10. Remove the moving glass center and rear mounting bolts (R).

Apply Loctite 242 to the center and rear mounting bolts and re-tighten. See below for the correct torque specification:

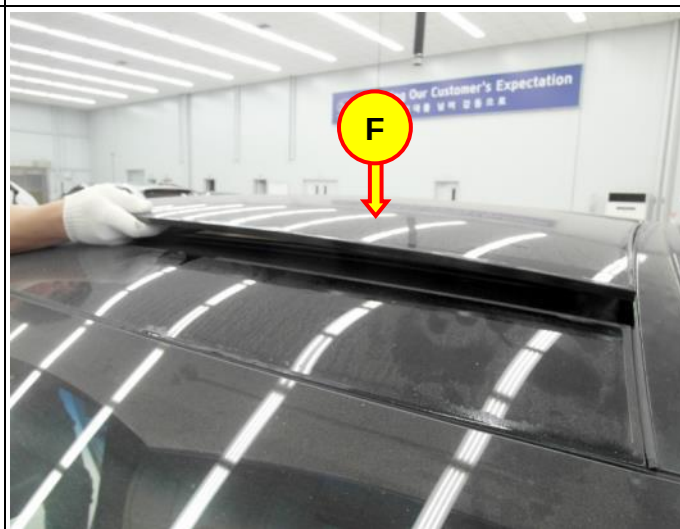
N.m	• 4.5-5.5
kgf.m	• 0.4-5
lb-ft	• 3.3-4.0



11. Remove the moving glass (F).

 **CAUTION**

Prevent damage to glass when removing the moving glass.



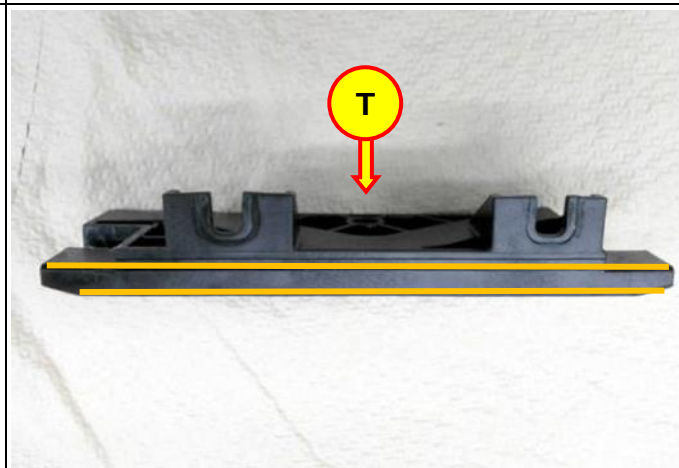
12. Remove the rear locator mounting bolts (S).



13. Remove the rear locator (T).



14. Place the rear locator so that its position matches the reference picture (T).



15. Attach the pad to the side displayed of the rear locator.

Reference

Use the following step for orientation:

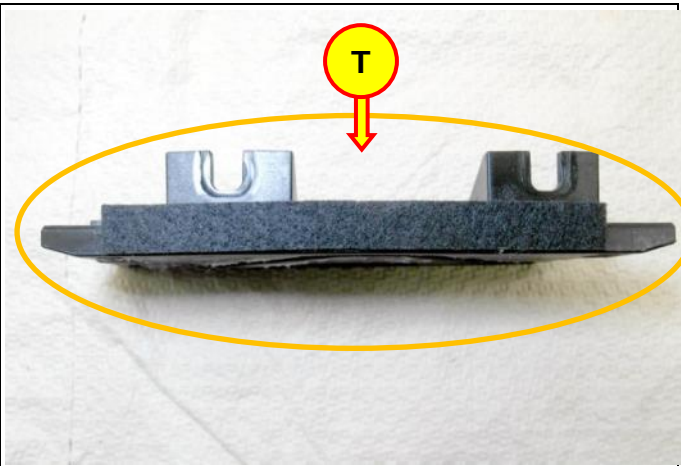
A: **PANORAMIC SUNROOF REPAIR** (14)



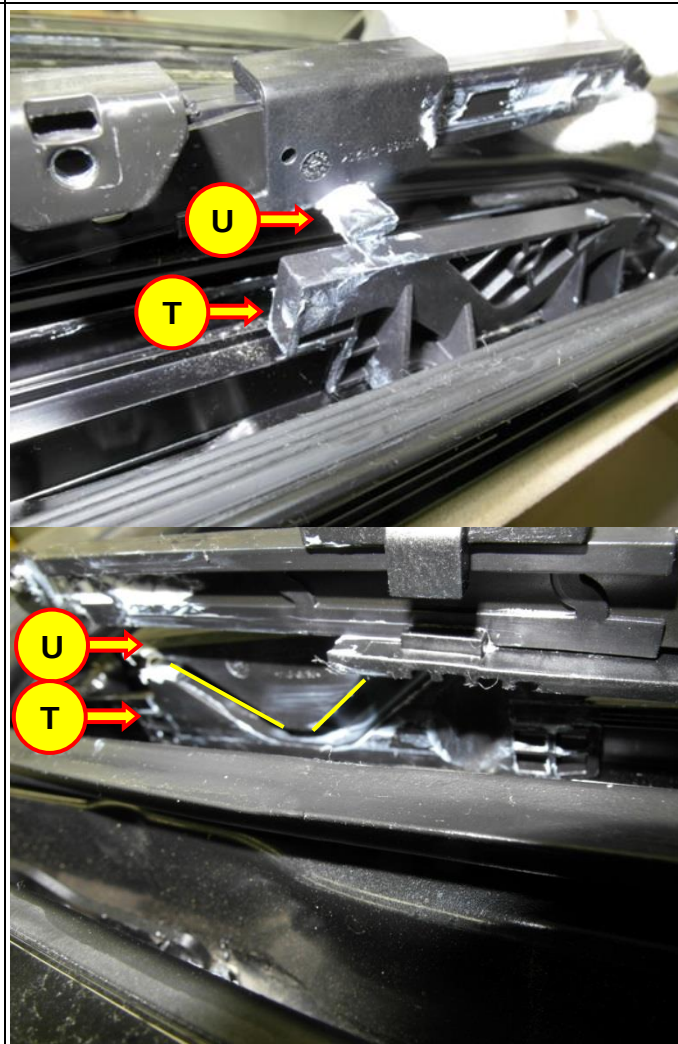
16. Apply grease to the rear locator (T) before installation.

**CAUTION**

Apply grease evenly to the rear locator. Prevent grease from contaminating components.

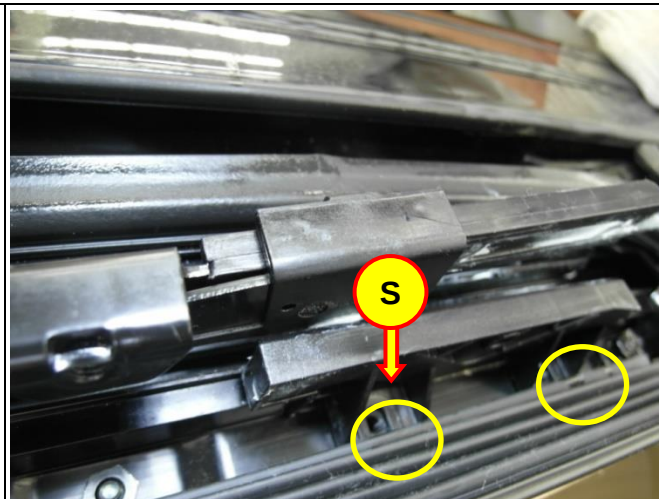


17. Reinstall the rear location (T) by inserting the protrusion side of the locator groove into the panel curve (U).

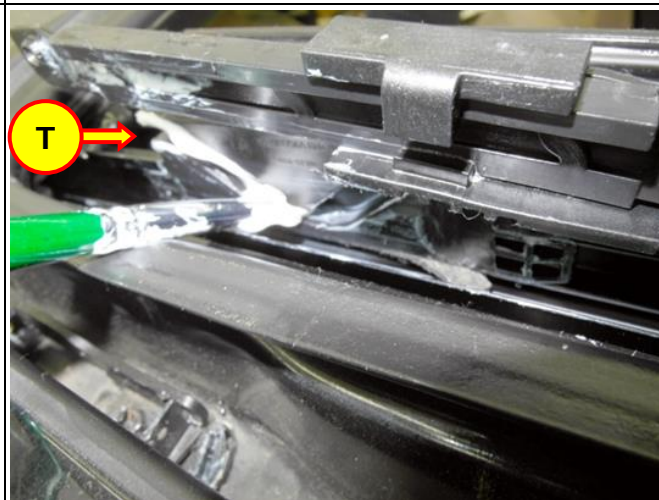


18. Reinstall the rear locator mounting bolts (S). See below for the correct torque specification:

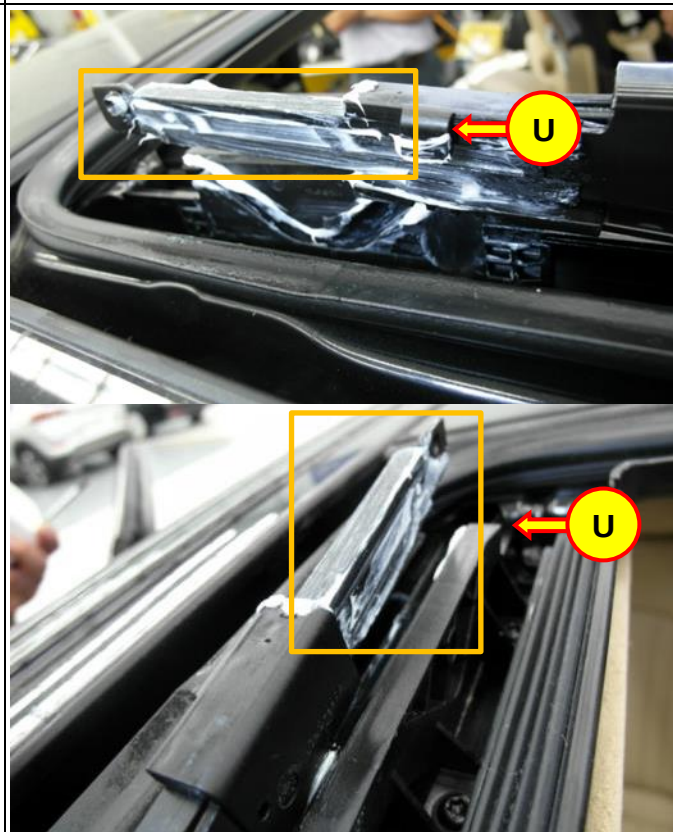
N.m	• 4.5-5.5
kgf.m	• 0.4-5
lb-ft	• 3.3-4.0



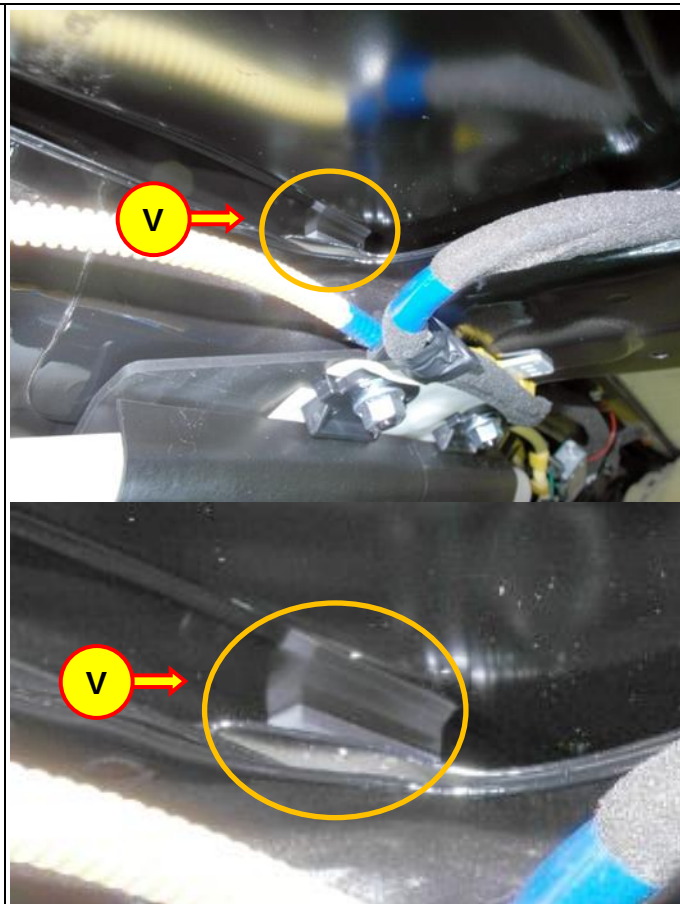
19. Apply grease to the rear locator groove (T).



20. Apply grease to the panel curve surfaces (U). Perform identical actions for both LH/RH sides.

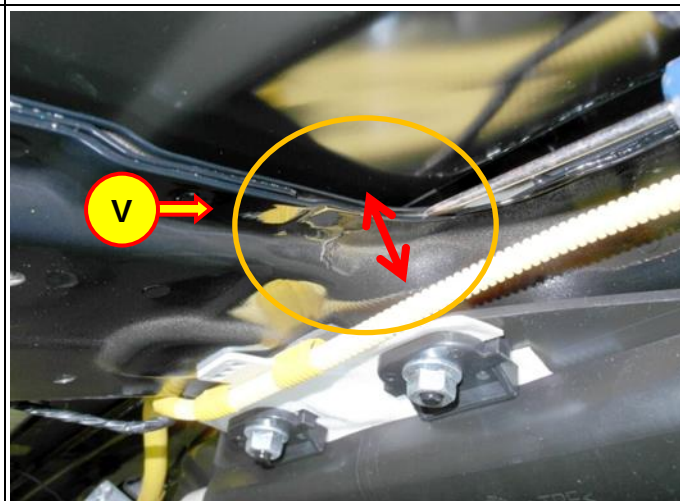


21. Locate gap (V) on the edge of the 'C' pillar roof panel.



22. Insert a flat head screwdriver approximately 3-5 mm into the gap.

At a 30 degree angle, gently pry open the gap using the screwdriver. Perform this action for both LH/RH sides.



23. Reinstall all parts in reverse order.

24. Re-inspect for noise.

Reference

Follow the instructions listed in
B) Panoramic Sunroof Inspection

25. Service procedure is now complete.