



GROUP

BOD

MODEL

2016MY
Optima (JFa)

NUMBER

164

DATE

February 2017

TECHNICAL SERVICE BULLETIN

SUBJECT:

SERVICE ACTION: PANORAMIC SUNROOF
INSPECTION AND REPAIR (SA270)

This bulletin provides information on some 2016MY Optima (JFa) vehicles, produced from September 28, 2015 to August 8, 2016, which may exhibit a buzzing noise that may increase with intensity in conjunction with the HVAC fan speed, a popping or clicking noise when driving over bumps or turning, and/or a loose folding cover, depending on the vehicle production date. For details regarding each type of inspection/repair, refer to its respective section below. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.

Service Action No.	Production Date Range	Procedures	Page
SA270A	September 28, 2015 to March 7, 2016	<ul style="list-style-type: none">Decorative Cover LubricationWeather Strip Inspection/RepairFolding Cover Inspection/Replacement	2-6
SA270B	February 28, 2016 to July 5, 2016	<ul style="list-style-type: none">Weather Strip Inspection/RepairFolding Cover Inspection/Replacement	7-9
SA270C	June 21, 2016 to August 8, 2016	<ul style="list-style-type: none">Folding Cover Inspection/Replacement	10-11

*** NOTICE**

A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

Repair status for a VIN is provided on WebDCS (Service → Warranty Coverage → Warranty Coverage Inquiry → Campaign Information). Not completed Recall / Service Action reports are available on WebDCS (Consumer Affairs → Not Completed Recall → Recall VIN → Select Report), which includes a list of affected vehicles.

This issue number is SA270.

File Under: <Body>

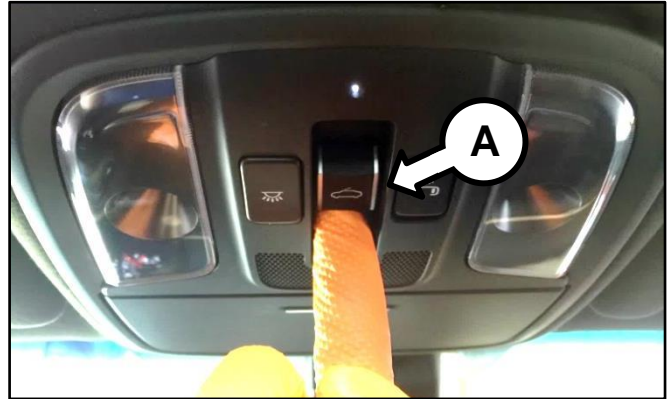
Circulate To: General Manager Service Manager Parts Manager
 Service Advisors Technicians Body Shop Manager Fleet Repair

Service Procedure (SA270A):

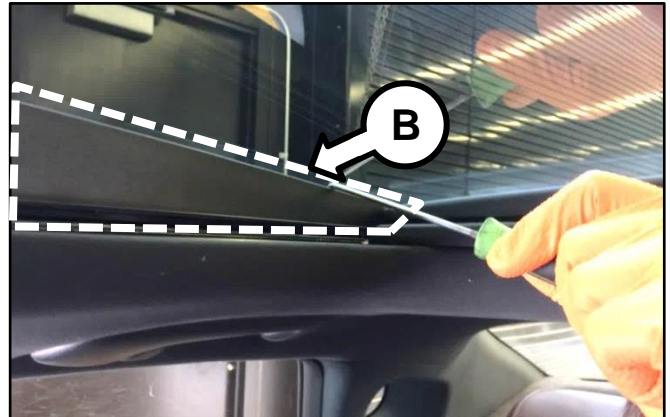
1. Follow the three procedures outlined on pages 2 through 6 of this bulletin.

Decorative Cover Lubrication Procedure:

1. Open sunroof shade only using the sunroof switch (A) at the overhead console.



2. Using a 90° pick, at the rear of the sunroof assembly, carefully detach the rear part of the decorative cover (B).



⚠ CAUTION
Use caution not to damage the headliner when removing the decorative cover.

⚠ CAUTION
Use caution not to damage the decorative cover as it will require replacement of the complete sunroof assembly and is not warrantable.

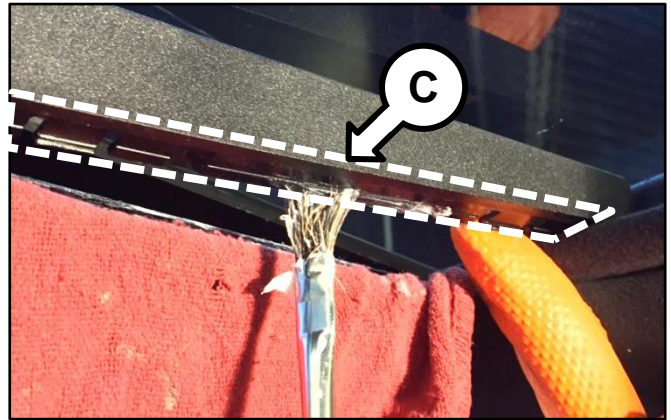
3. While holding the decorative cover, use an acid brush and apply a sufficient amount of lubricant on the top of the sunshade guide rail.

*** NOTICE**
Protect the headliner as necessary to avoid lubricant contamination.



SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)

4. Lubricate the bottom of the decorative cover (C).



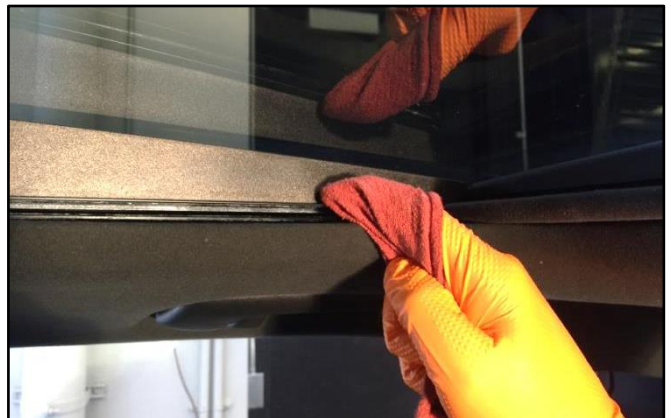
5. Carefully reattach the decorative cover by pushing the cover in until it snaps into place.



6. Thoroughly clean the excess lubricant from the decorative cover.

*** NOTICE**

Ensure the headliner and sunroof glass are clean and free of lubricant.



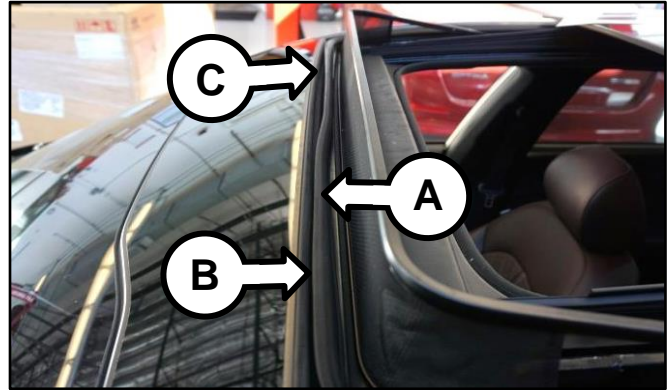
7. Repeat steps 2-6 for the other side.

Weather Strip Inspection and Repair Procedure:

1. Inspect the weather strip (A).

If the weather strip is loose (B), experiencing a fluttering noise, proceed to the next step.

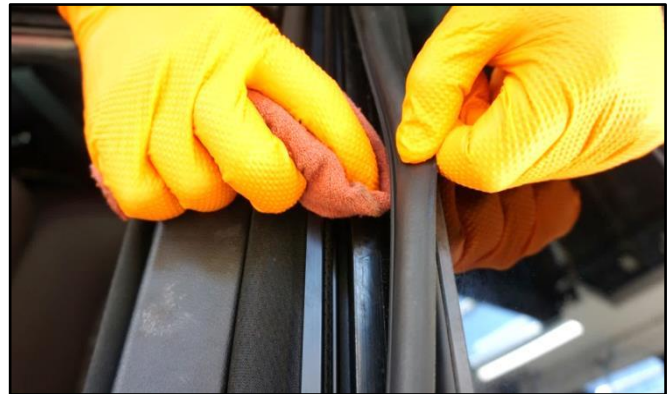
If the weather strip is adhered (C) with a uniform gap between the strip and the sunroof frame, no further action is required. Proceed to the next procedure on page 3 of this bulletin.



2. Partially remove the affected area of weather strip and clean the contact surface between the strip and sunroof frame using alcohol or a general purpose adhesive cleaner.

*** NOTICE**

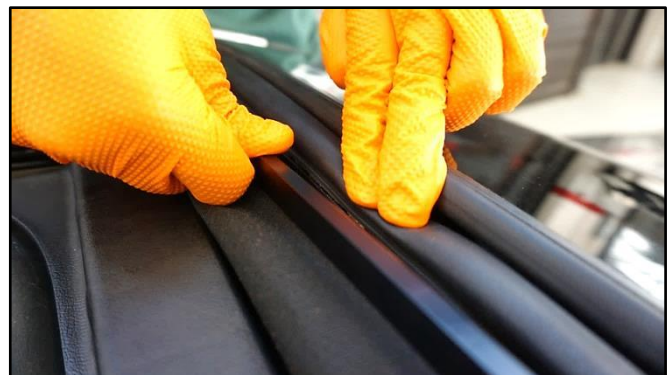
Failure to thoroughly clean old adhesive or foreign material from the contact surface may result in an ineffective or repeat repair.



3. Apply a thin bead of adhesive to the weather strip.



4. Push the weather strip down onto the sunroof frame and apply pressure for approximately 30 seconds until the weather strip has properly adhered to the sunroof frame.



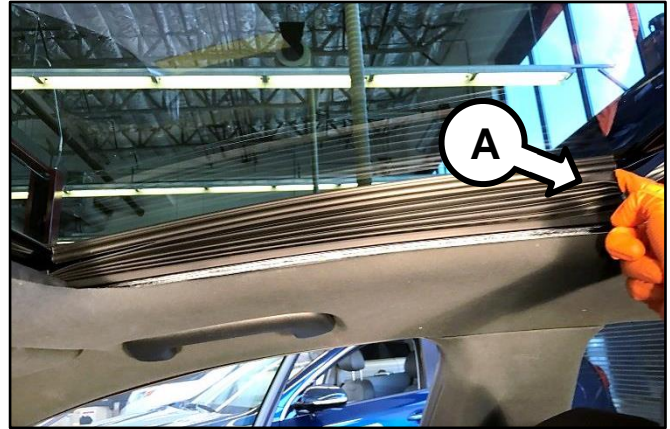
5. After ensuring that the adhesive has cured, open and close the sunroof several times to confirm proper installation of the weather strip.

SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)**Folding Cover Inspection and Replacement Procedure:**

1. With the sunroof in the tilt position, carefully, with light pressure, pull the rear of the folding cover (A) inwards.

If the folding cover does not easily detach, no further action is required. Ensure the folding cover is securely attached to the slide rails then return the sunroof to the closed position.

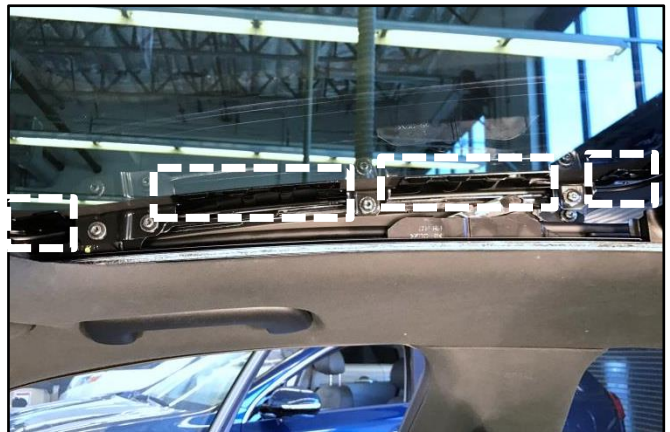
If the folding cover is easily detachable from the slide rail, proceed to the next step.



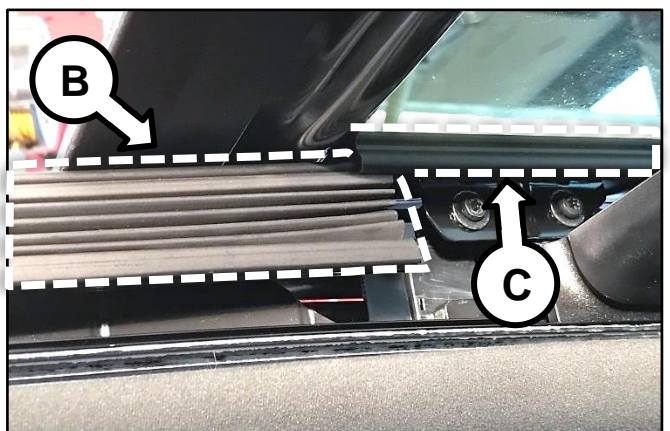
2. Completely remove the folding cover (B) and separate it from the sliding bracket (C).



3. Reinstall the sliding bracket to the upper sliding rail (C) without the folding cover (B) attached. Ensure the sliding bracket is completely secured at all four (4) locations shown.



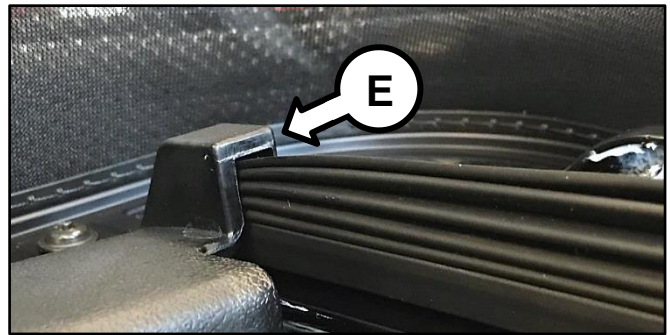
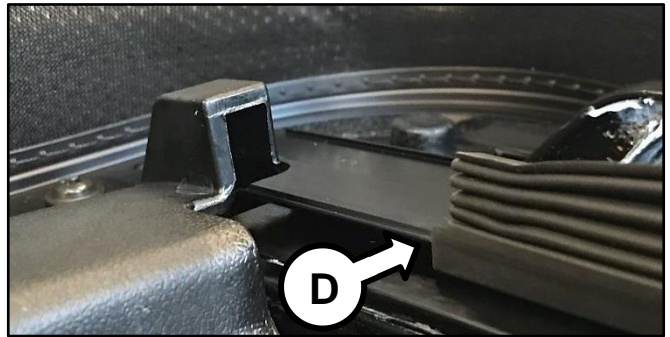
4. Completely open the sunroof and insert the rolled edge at the top rear of the new improved folding cover (B) into the sliding bracket (C) attached to the sliding rail.



SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)

- 5. Attach the bottom front of the folding cover to the lower sliding rail (D) then insert the front end of the folding cover into the opening (E).

CAUTION
Use caution not to unfold the folding cover when inserting the front end into the opening.



- 6. Ensure complete attachment of the bottom of the folding cover to the lower sliding rail.



- 7. Repeat steps 1 through 7 of this procedure for the other side's folding cover.



- 8. Verify proper operation of the sunroof and ensure there is no damage to the folding cover.

SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)**Service Procedure (SA270B):**

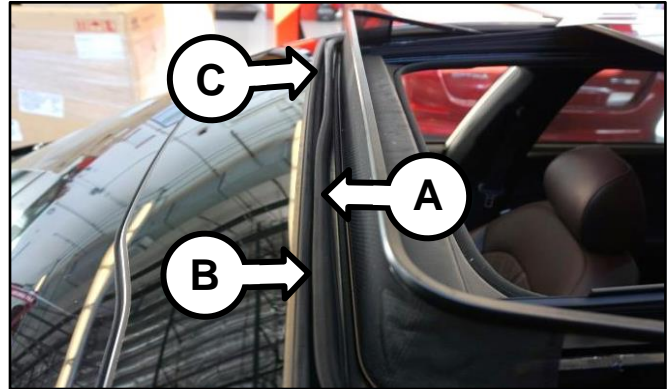
1. Follow the two procedures outlined on pages 7 through 9 of this bulletin.

Weather Strip Inspection and Repair Procedure:

1. Inspect the weather strip (A).

If the weather strip is loose (B), experiencing a fluttering noise, proceed to the next step.

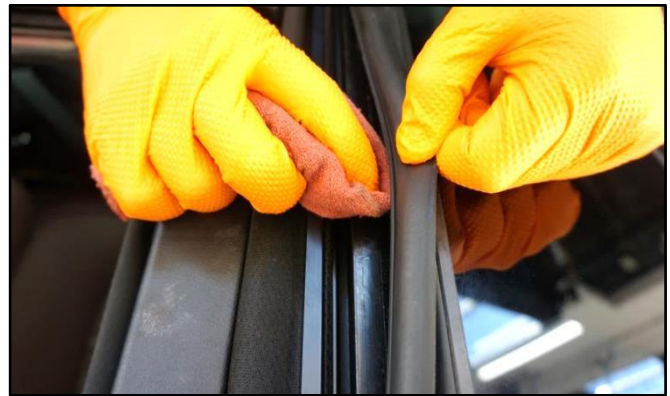
If the weather strip is adhered (C) with a uniform gap between the strip and the sunroof frame, no further action is required. Proceed to the next procedure on page 3 of this bulletin.



2. Partially remove the affected area of weather strip and clean the contact surface between the strip and sunroof frame using alcohol or a general purpose adhesive cleaner.

*** NOTICE**

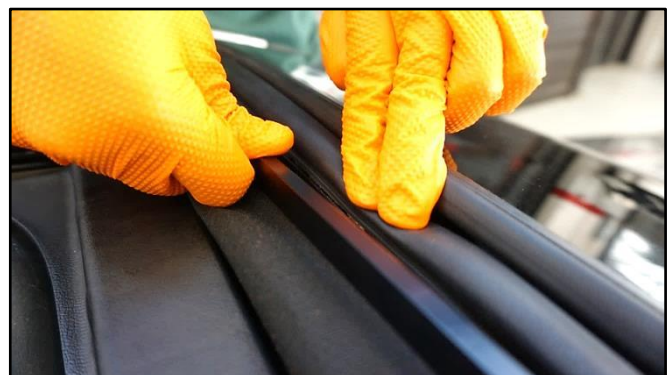
Failure to thoroughly clean old adhesive or foreign material from the contact surface may result in an ineffective or repeat repair.



3. Apply a thin bead of adhesive to the weather strip.



4. Push the weather strip down onto the sunroof frame and apply pressure for approximately 30 seconds until the weather strip has properly adhered to the sunroof frame.



SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)

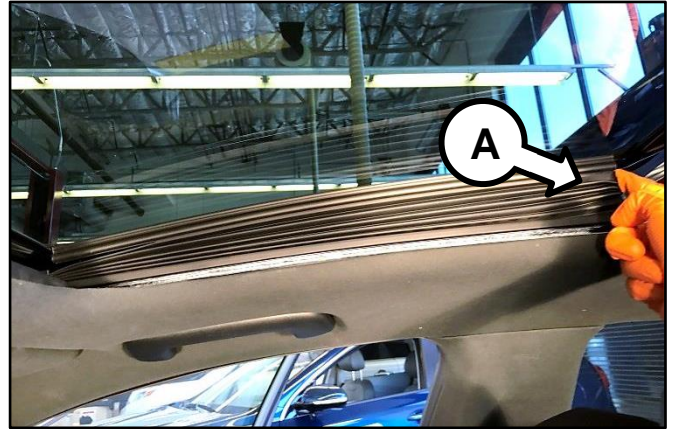
- After ensuring that the adhesive has cured, open and close the sunroof several times to confirm proper installation of the weather strip.

Folding Cover Inspection and Replacement Procedure:

- With the sunroof in the tilt position, carefully, with light pressure, pull the rear of the folding cover (A) inwards.

If the folding cover does not easily detach, no further action is required. Ensure the folding cover is securely attached to the slide rails then return the sunroof to the closed position.

If the folding cover is easily detachable from the slide rail, proceed to the next step.



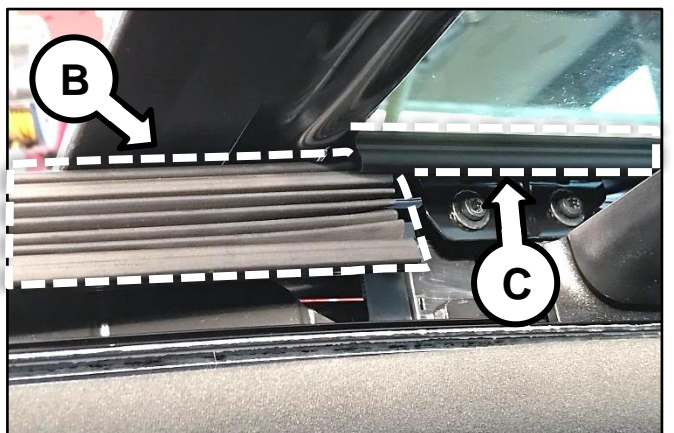
- Completely remove the folding cover (B) and separate it the sliding bracket (C).



- Reinstall in the sliding bracket to the upper sliding rail (C) without the folding cover (B) attached. Ensure the sliding bracket is completely secured at all four (4) locations shown.



- Completely open the sunroof then insert the rolled edge at the top rear of the new improved folding cover (B) into the sliding bracket (C) attached to the sliding rail.

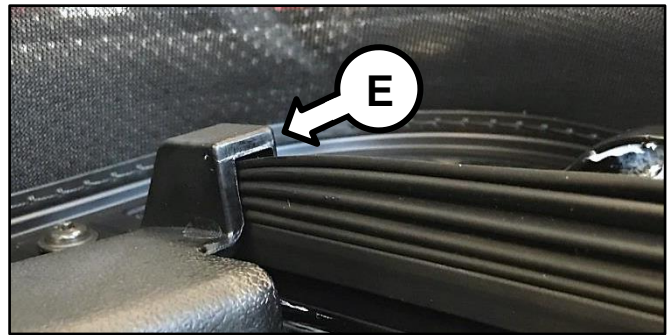
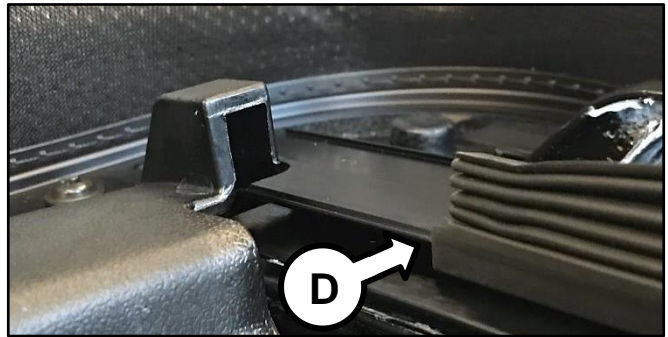


SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)

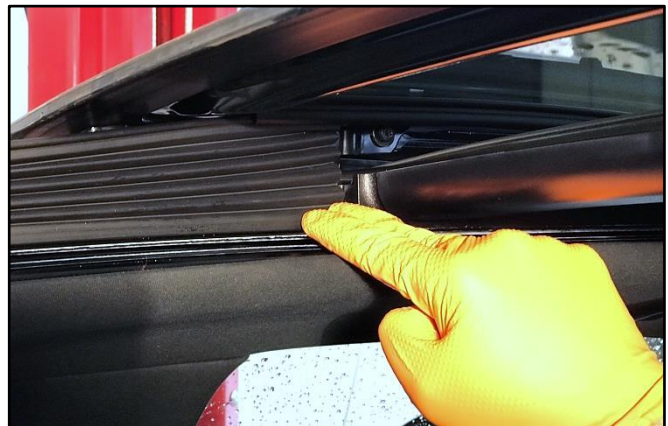
- Attach the bottom front of the folding cover to the lower sliding rail (D) then insert the front end of the folding cover into the opening (E).

**CAUTION**

Use caution not to unfold the folding cover when inserting the front end into the opening.



- Ensure complete attachment of the bottom of the folding cover to the lower sliding rail.



- Repeat steps 1 through 7 of this procedure for the other side's folding cover.



- Verify proper operation of the sunroof and ensure there is no damage to the folding cover.

Service Procedure (SA270C):

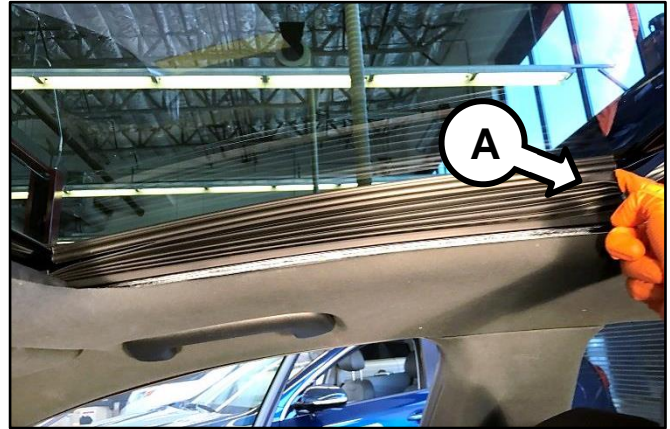
1. Follow the procedure outlined on pages 10 through 11 of this bulletin.

Folding Cover Inspection and Replacement Procedure:

1. With the sunroof in the tilt position, carefully, with light pressure, pull the rear of the folding cover (A) inwards.

If the folding cover does not easily detach, no further action is required. Ensure the folding cover is securely attached to the slide rails then return the sunroof to the closed position.

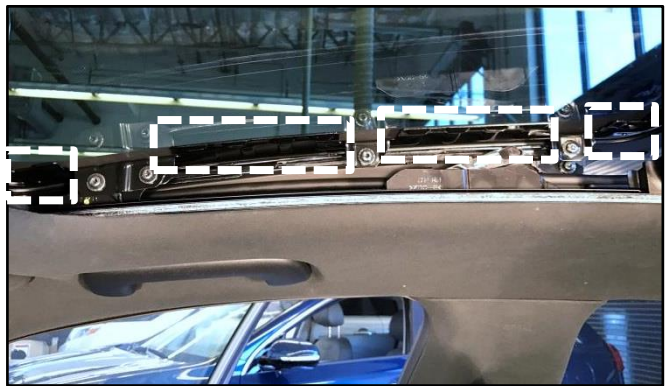
If the folding cover is easily detachable from the slide rail, proceed to the next step.



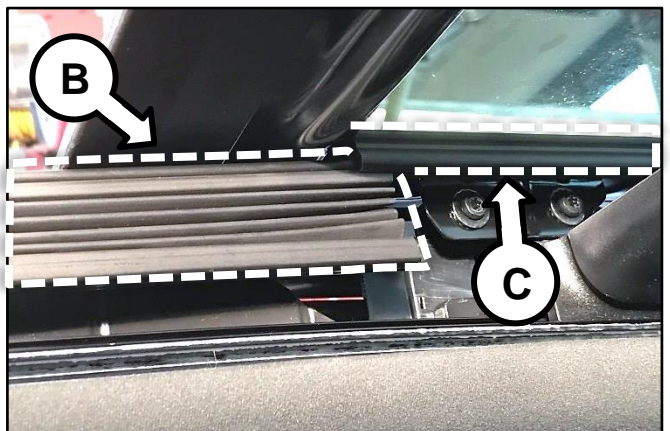
2. Completely remove the folding cover (B) and separate it the sliding bracket (C).



3. Reinstall in the sliding bracket to the upper sliding rail (C) without the folding cover (B) attached. Ensure the sliding bracket is completely secured at all four (4) locations shown.



4. Completely open the sunroof then insert the rolled edge at the top rear of the new improved folding cover (B) into the sliding bracket (C) attached to the sliding rail.

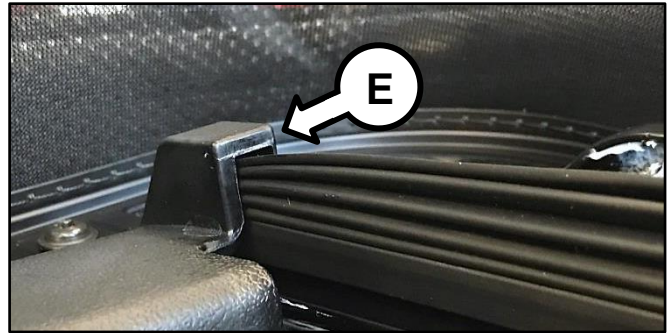
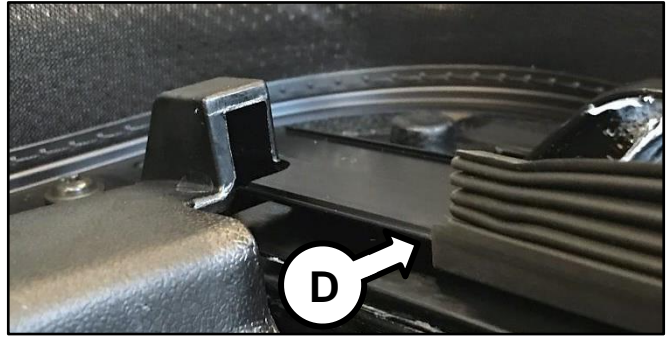


SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)

- Attach the bottom front of the folding cover to the lower sliding rail (D) then insert the front end of the folding cover into the opening (E).

**CAUTION**

Use caution not to unfold the folding cover when inserting the front end into the opening.



- Ensure complete attachment of the bottom of the folding cover to the lower sliding rail.



- Repeat steps 1 through 7 of this procedure for the other side's folding cover.





- Verify proper operation of the sunroof and ensure there is no damage to the folding cover.

SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)


AFFECTED VEHICLE RANGE:

Model	Service Action No.	Production Date Range
Optima (JFa)	SA270A	September 28, 2015 to March 7, 2016
	SA270B	February 28, 2016 to July 5, 2016
	SA270C	June 21, 2016 to August 8, 2016

REQUIRED TOOLS:

Service Action No.	Part Name	Figure	Comments
SA270A (Decorative Cover Lubrication)	Acid Brush		Sourced locally
	90° Pick		Sourced from tool vendor



REQUIRED PART:

Service Action No.	Part Name	Qty.	Figure	Figure
SA270A (Decorative Cover Lubrication)	Lubricant	1		One container will cover at least 100 vehicles Maximum order quantity 1 per dealer

*** NOTICE**



DO NOT order additional lubricant if it has already been acquired as this lubricant is also utilized for TSB BOD125.

REQUIRED PART:

Service Action No.	Part Name	Figure	Figure
SA270A & SA270B (Weather Strip Repair)	Gorilla Super Glue		Sourced locally One 20g bottle will cover at least 10 vehicles
	3M Adhesive Cleaner		Sourced locally One quart will cover at least 100 vehicles

SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)

REQUIRED PART:

Service Action No.	Part Name	Part Number	Figure
SA270A, SA270B, & SA270C (Folding Cover Replacement)	Folding Cover (LH)	81673 D4000QQK	
	Folding Cover (RH)	81674 D4000QQK	

WARRANTY INFORMATION:

SA270A (DECORATIVE COVER, WEATHER STRIP, AND FOLDING COVER)

N CODE: N99 C CODE: C99

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
V	81610 D4010	0	Decorative Cover Lubrication, Weather Strip Inspection, & Folding Cover Inspection	160A46R0	0.4 M/H	N/A	0
			Decorative Cover Lubrication, Weather Strip Repair, & Folding Cover Inspection	160A46R1	0.6 M/H	N/A	0
			Decorative Cover Lubrication, Weather Strip Inspection, & Folding Cover Replacement (One)	160A46R2	0.6 M/H	81673 D4000QQK 81674 D4000QQK	1
			Decorative Cover Lubrication, Weather Strip Inspection, & Folding Cover Replacement (Both)	160A46R3	0.7 M/H	81673 D4000QQK 81674 D4000QQK	1 1
			Decorative Cover Lubrication, Weather Strip Repair, & Folding Cover Replacement (One)	160A46R4	0.7 M/H	81673 D4000QQK 81674 D4000QQK	1
			Decorative Cover Lubrication, Weather Strip Repair, & Folding Cover Replacement (Both)	160A46R5	0.8 M/H	81673 D4000QQK 81674 D4000QQK	1 1

NOTE: Use sublet code X1 for reimbursement of lubricant, super glue, and adhesive cleaner (\$1.70 maximum).

SUBJECT: PANORAMIC SUNROOF INSPECTION AND REPAIR (SA270)

WARRANTY INFORMATION:

SA270B (WEATHER STRIP AND FOLDING COVER)**N CODE: N99 C CODE: C99**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
V	81614 D4000	0	Weather Strip Inspection & Folding Cover Inspection	160A47R0	0.3 M/H	N/A	0
			Weather Strip Repair & Folding Cover Inspection	160A47R1	0.4 M/H	N/A	0
			Weather Strip Inspection & Folding Cover Replacement (One)	160A47R2	0.4 M/H	81673 D4000QQK	1
						81674 D4000QQK	
			Weather Strip Inspection & Folding Cover Replacement (Both)	160A47R3	0.4 M/H	81673 D4000QQK	1
						81674 D4000QQK	1
Weather Strip Repair & Folding Cover Replacement (One)	160A47R4	0.4 M/H	81673 D4000QQK	1			
			81674 D4000QQK				
Weather Strip Repair & Folding Cover Replacement (Both)	160A47R5	0.5 M/H	81673 D4000QQK	1			
			81674 D4000QQK	1			

WARRANTY INFORMATION:

SA270C (FOLDING COVER ONLY)**N CODE: N99 C CODE: C99**

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
V	81673 D4000	0	Folding Cover Inspection	160A48R0	0.3 M/H	N/A	0
			Folding Cover Replacement (One)	160A48R1	0.3 M/H	81673 D4000QQK	1
						81674 D4000QQK	
Folding Cover Replacement (Both)	160A48R2	0.4 M/H	81673 D4000QQK	1			
			81674 D4000QQK	1			