



SERVICE BULLETIN

Classification: BT15-037	Reference: NTB16-017	Date: February 19, 2016
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2016 MAXIMA; MOONROOF ADJUSTMENT AND REPAIRS

APPLIED VEHICLE: 2016 Maxima (A36)

SERVICE INFORMATION

When working on the Moonroof, several items can be replaced, repaired, or adjusted, without the need to replace the entire Moonroof assembly.

Refer to the following procedures in this bulletin, as needed, to help resolve Moonroof issues.

- **Knock Insert (Knock) Replacement (Page 2)**
IMPORTANT: Knocks that are out of place may lodge in the track and prevent correct Moonroof, wind deflector or sunshade operation. Before any other adjustments or repairs are performed, the Knocks should be checked.
- **Wind Deflector Replacement (Page 7)**
For wind deflector being damaged, scratched, or having a broken clip.
- **Trim Panel Replacement (Page 12)**
For trim panel being damaged, having seal issues or trim panel not being seated.
- **Moonroof Glass Adjustment (Page 16)**
For adjusting fit, tightening loose screws or for glass being out of position.
- **Front or Rear Sunshade Replacement (Page 24)**
For sunshade replacement due to discoloration, being jammed, out of track, loss of tension or popping/clicking while in motion.
- **Moonroof or Sunshade Motor Repair (Page 28)**
For inoperative or noisy.

IMPORTANT: Do not lower the headliner unless instructed.

- If the headliner is lowered, allow it to rest on the seats. Do not remove the headliner from the vehicle.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

SERVICE PROCEDURE

“Knock Insert” (Knock) Inspection (same for left or right side)

IMPORTANT:

- Detached knocks (Knock shown in Figure 1) may lodge in the Moonroof track and prevent correct Moonroof, wind deflector or sunshade operation.
- Do not remove the headlining for “knock” inspection or replacement.
- Knocks are available only as part of a left or right side specific Moonroof cable repair kit and are listed as GUIDE ASSY-SUNROOF in the PARTS INFORMATION table.

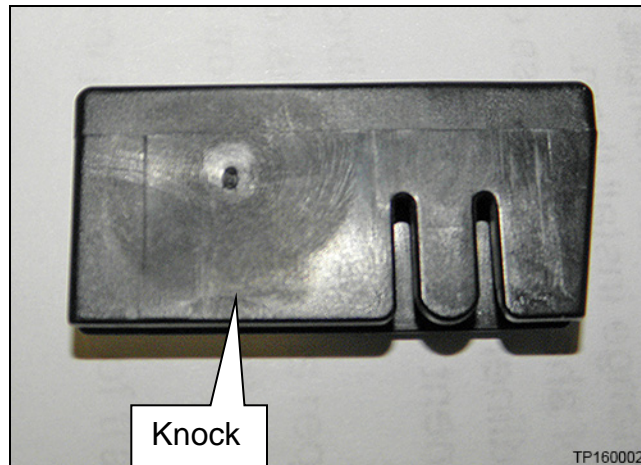


Figure 1

NOTE: The following Figures are of the driver's side. The passenger side is similar.

1. Turn the ignition ON, but do not start engine.
2. Completely open the Moonroof.

3. Remove the left and right inner blinds (Figure 2).

- a. Unclip the left and right inner blinds at the front corners of the “Moonroof unit assembly” (Moonroof frame) with an appropriate tool.

- Figure 3 on next page shows inner blind unclipped.

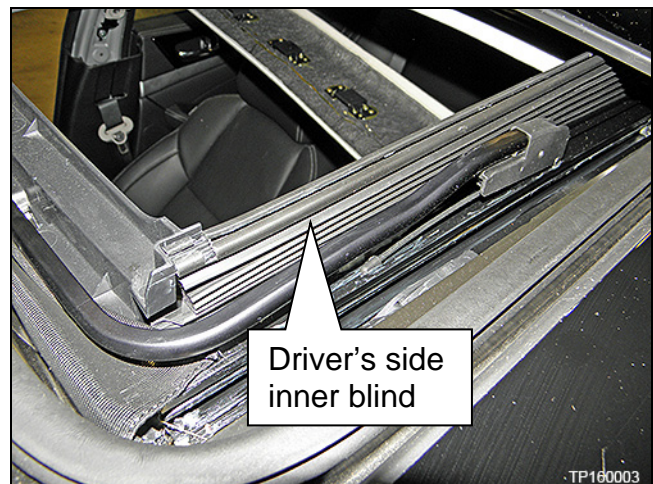


Figure 2

NOTE: Figure 3 shows inner blind unclipped.

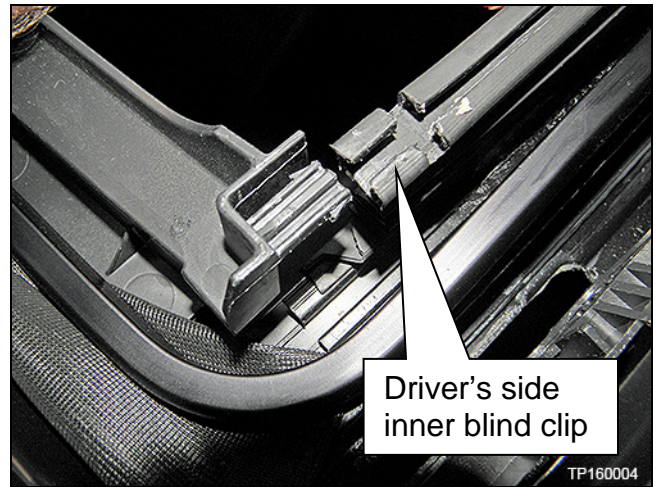


Figure 3

- b. Carefully detach the inner blinds from the Moonroof frame by pushing toward the inside of the vehicle along the bottom edge of inner blind (Figure 4).

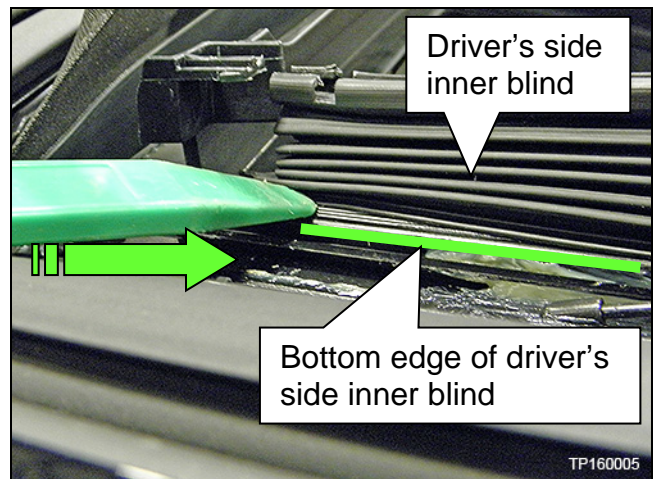


Figure 4

- c. Slide each inner blind toward the front of the vehicle and off of the Moonroof guides (Figure 5).

NOTE: Figure 5 is shown from inside the vehicle.

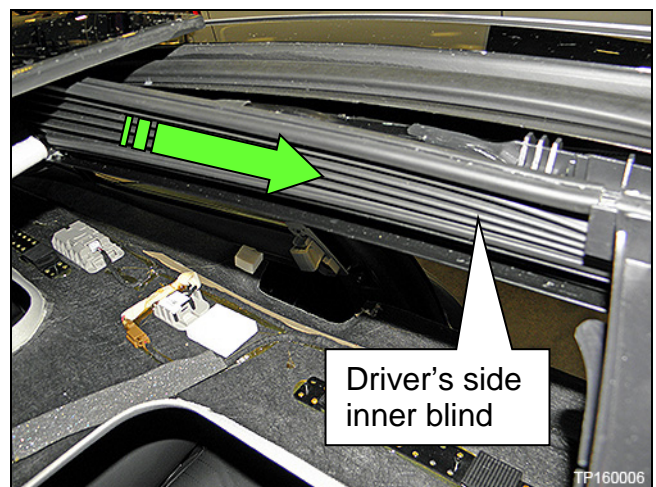


Figure 5

- 4. Close the Moonroof half way.

5. Confirm that both left and right knocks are present and correctly seated (Figure 6).
 - If both knocks are present, confirm that they are completely seated and lock clips locked in place (Figure 7).
 - If both knocks are present and completely seated no further action is required.
 - If a knock is present, but not completely seated (Figure 8), proceed to step 6 and replace only the unseated knock.
- NOTE:** Do not attempt to seat a knock that is out of place.
- If one of the knocks is missing, proceed to step 6 and replace both the left and right knocks.

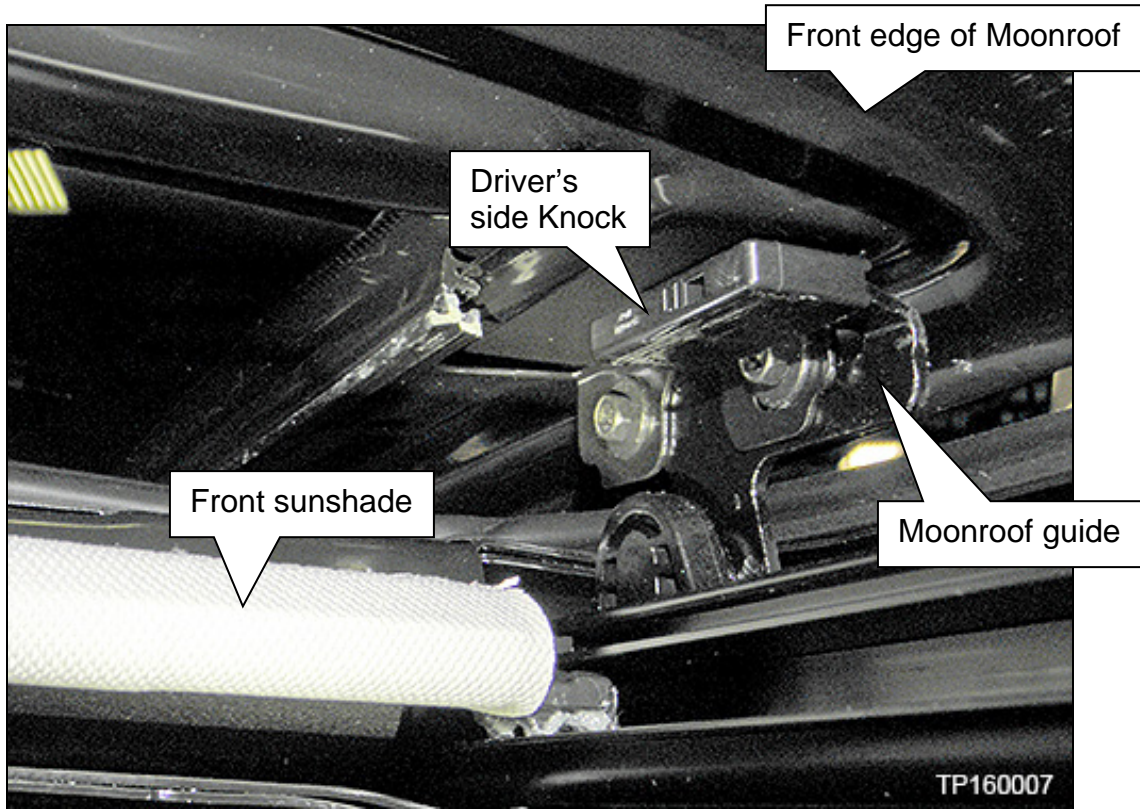


Figure 6

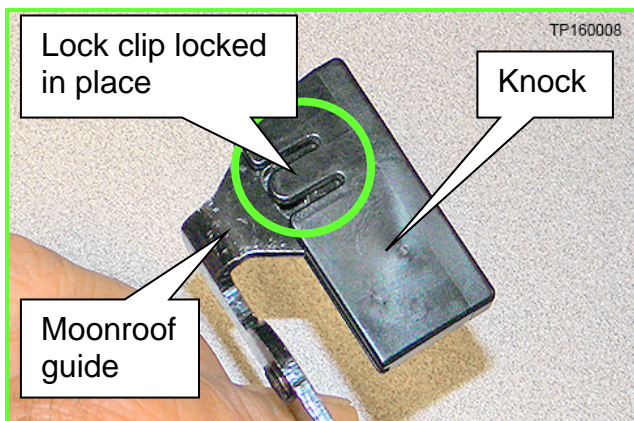


Figure 7



Figure 8

Figures 7 and 8 shown with Moonroof guide unbolted from Moonroof frame for clarity.

6. Remove the affected knock(s) (Figure 9).
 - a. Lift the knock lock clip with a finesse tool vertically away from the Moonroof guide.
 - b. Slide the knock toward the inside of the vehicle.

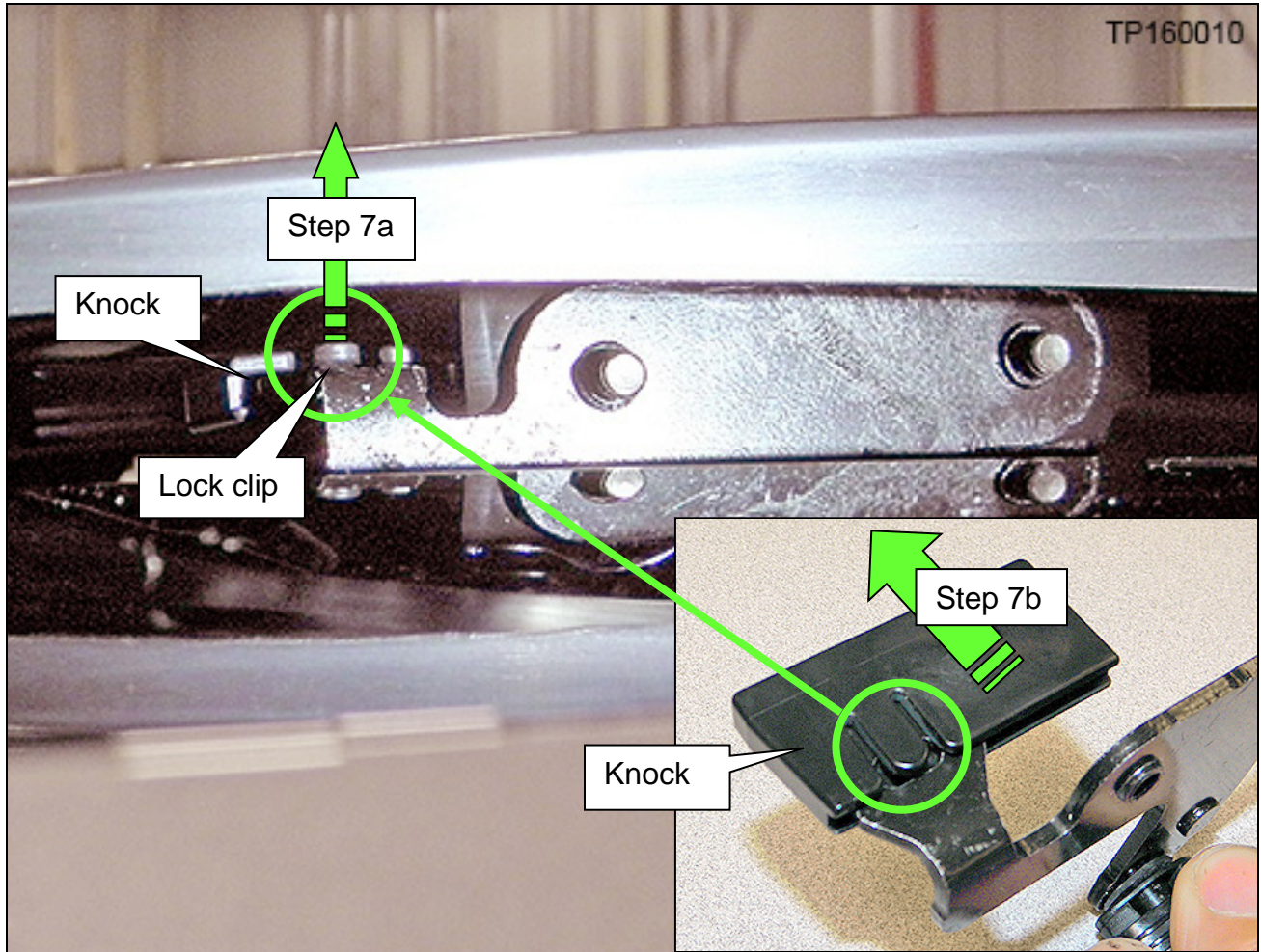


Figure 9

7. Install new knock(s) for those affected.
 - When installing a new knock; listen for an audible snap and then confirm that the lock clip is flush.

NOTE: Knocks are marked left (L) and right (R). Figure 10 shows a knock for the passenger side and is marked "R".

8. Pull on the knock to confirm that it is completely seated on the Moonroof guide.

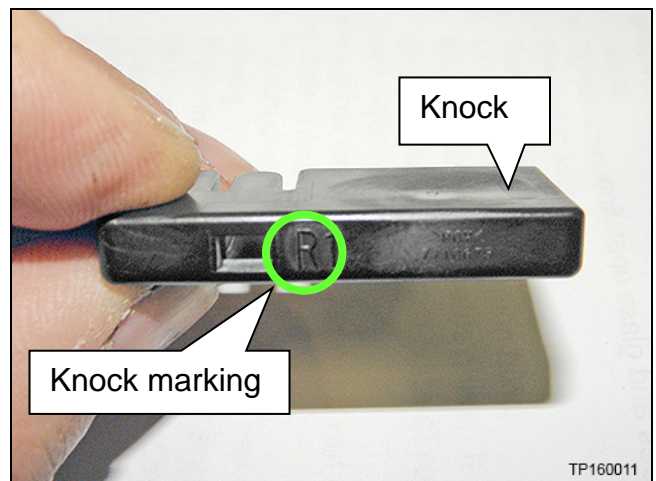


Figure 10

9. Reinstall the left and right inner blinds.
 - a. Slide the top of the left and right inner blinds onto their guides (Figure 11).

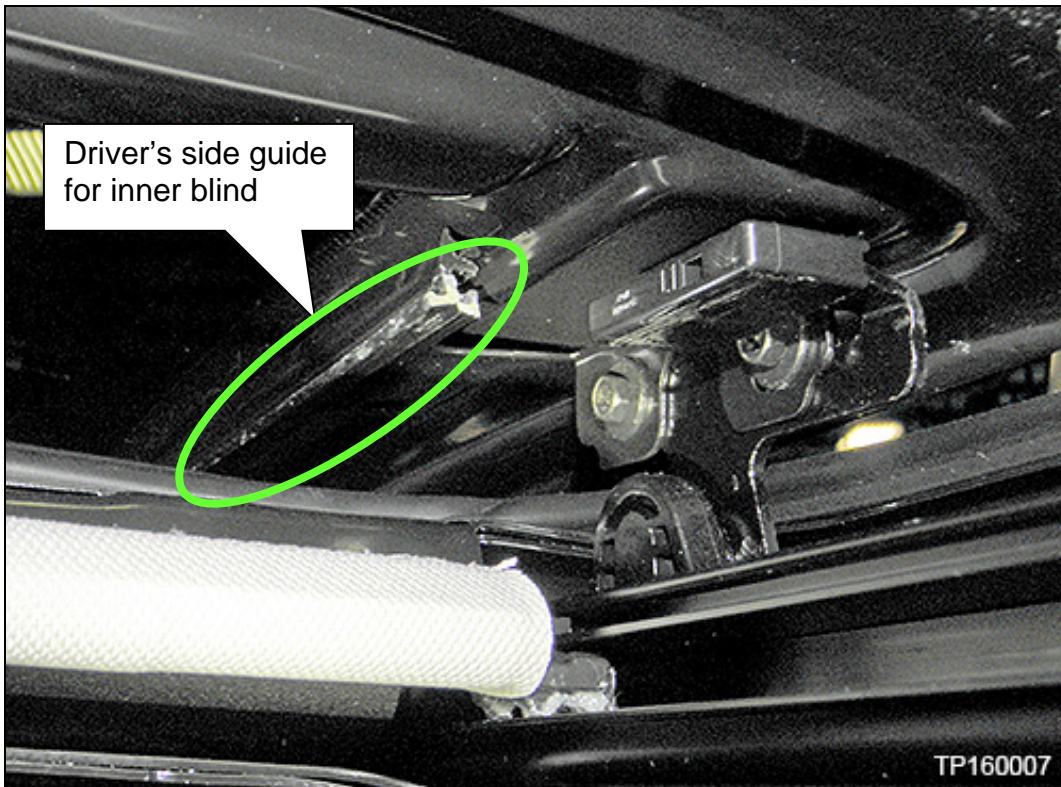


Figure 11

- b. Reconnect the front clip of the inner blind to the front corner of the Moonroof frame (Figure 12).
 - c. Attach the bottom of the inner blinds to the Moonroof frame.

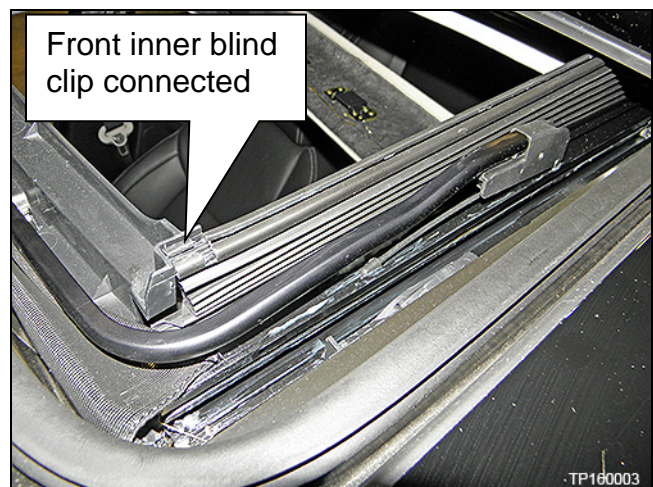


Figure 12

10. Close Moonroof.

11. Turn the ignition OFF.

Wind Deflector Replacement

If the wind deflector is damaged, scratched, or has a broken clip follow the steps below.

IMPORTANT: Do not lower the headlining to repair wind deflector.

Removal

NOTE: The following Figures are of the driver's side. The passenger side is similar.

1. Turn the ignition ON, but do not start engine.
2. Completely open the Moonroof.
3. Remove the left and right inner blinds (Figure 13).

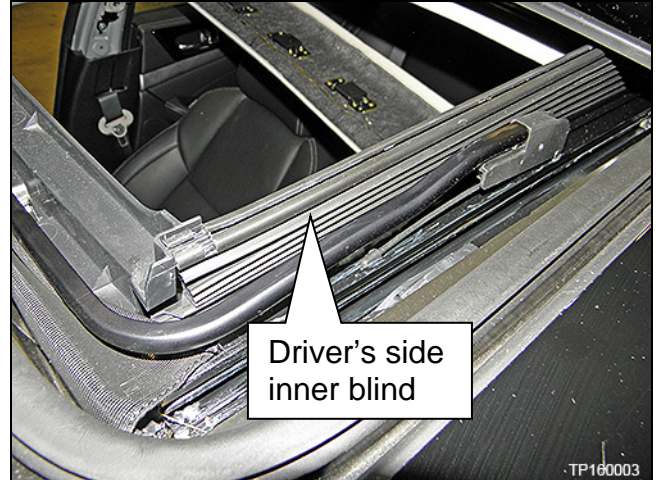


Figure 13

- a. Unclip the left and right inner blinds at the front corners of the "Moonroof unit assembly" (Moonroof frame) with an appropriate tool.
 - Figure 14 shows inner blind unclipped.

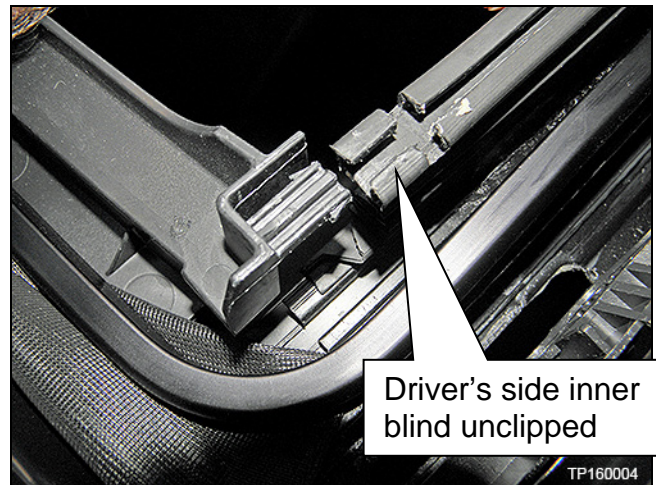


Figure 14

- b. Carefully detach the inner blinds from the Moonroof frame by pushing toward the inside of the vehicle along the bottom edge of inner blind (Figure 15).

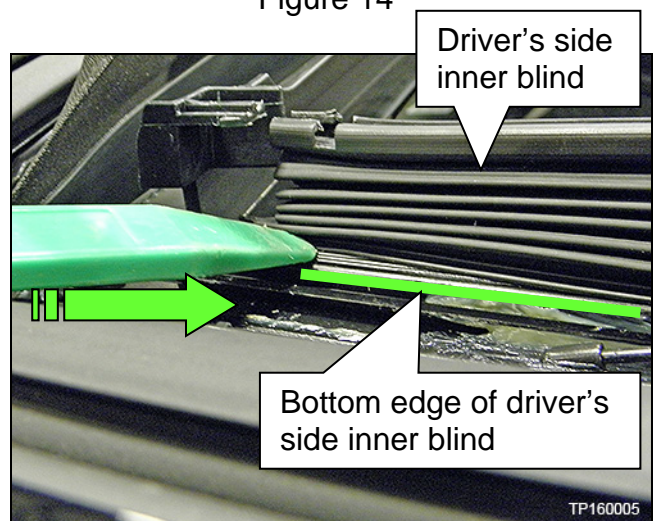


Figure 15

- c. Slide each inner blind toward the front of the vehicle and off of the Moonroof guides (Figure 16).

NOTE: Figure 16 is shown from inside the vehicle.

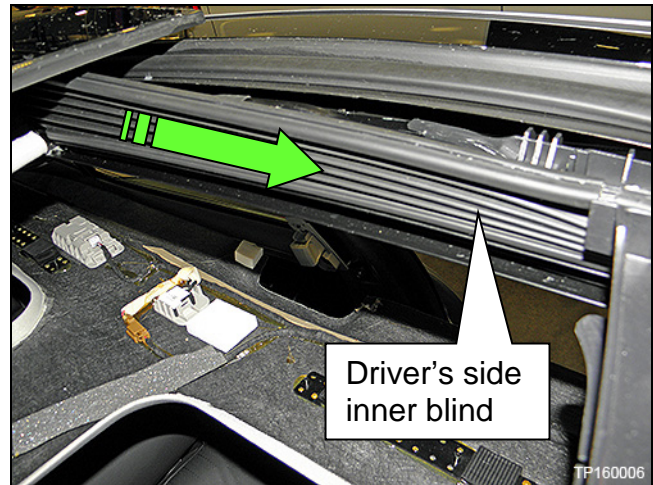


Figure 16

4. Remove the left and right “side pawl” (pivot clips) and “side arms” (wind deflector arms) from the Moonroof unit assembly (Moonroof frame) as follows:
 - a. Depress the molded tab on the pivot clip to lift it out of the notch in the Moonroof frame (Figure 18).
 - b. Slide the pivot clip and wind deflector arms toward the front of the vehicle.

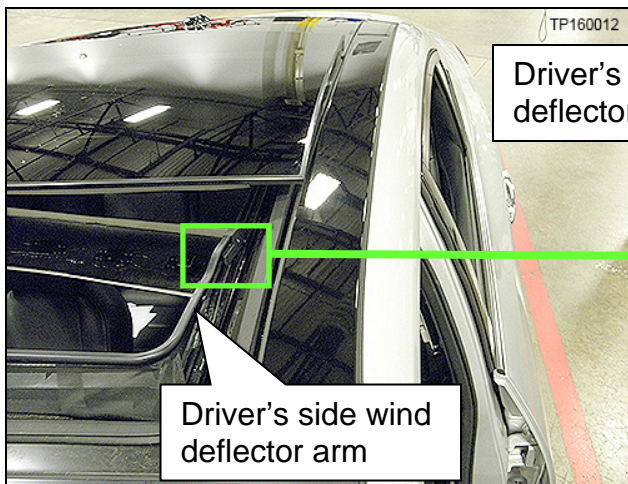


Figure 17

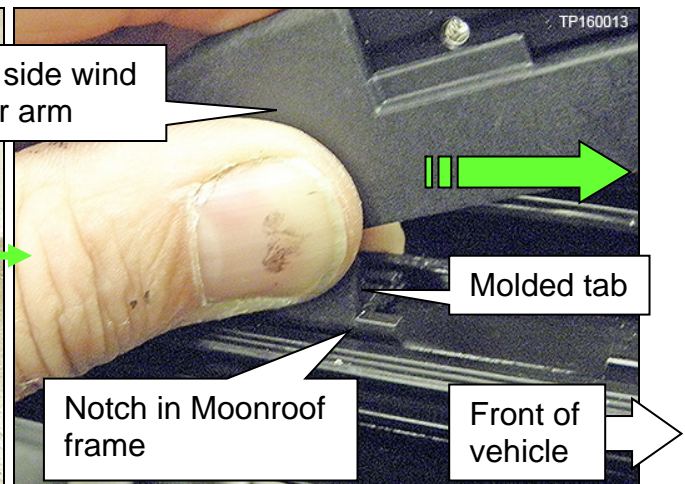


Figure 18

- Figure 19 shows pivot clip with wind deflector arm removed so that lifting molded tab can be seen.

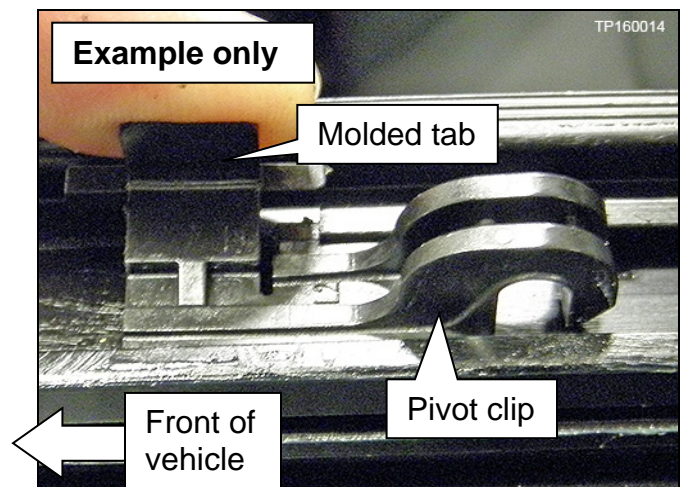


Figure 19

- c. Detach the pivot clip and wind deflector arm from the frame (Figure 20).

NOTE: The pivot clips are left and right specific. A piece of painter's tape marked "left" or "right" may help distinguish them for reassembly.

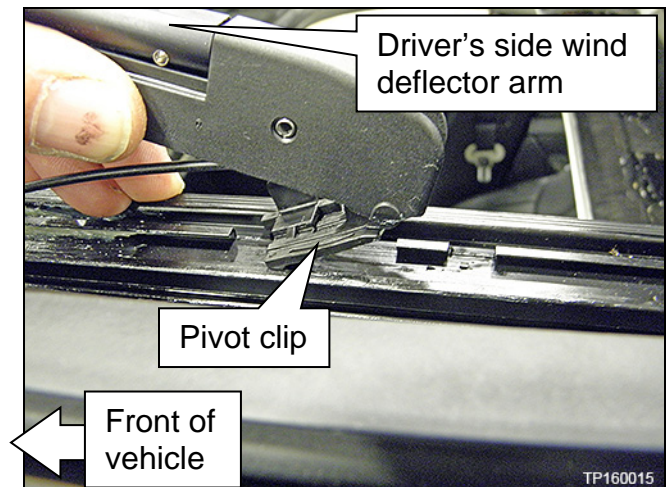


Figure 20

- 5. Detach the wind deflector assembly from the front of the Moonroof frame:
 - a. Gently lift the 3 attachment clips with a small screw driver one at a time (Figure 21).
 - b. Slide the wind deflector assembly toward the rear of the vehicle to release it from the Moonroof frame (Figure 21).

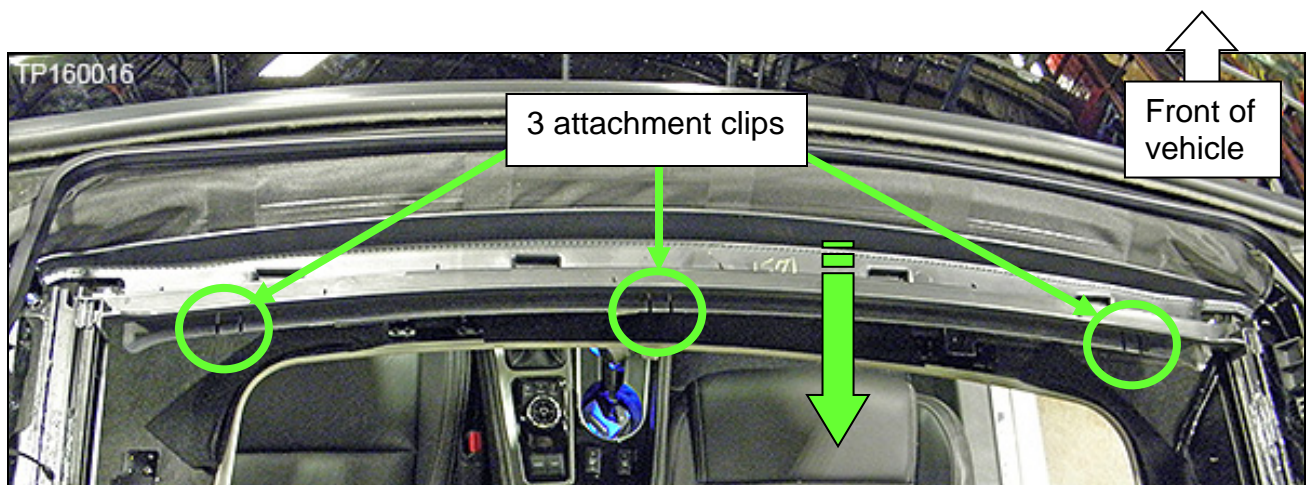


Figure 21

Installation

6. Insert the four tabs of the wind deflector into the Moonroof frame (Figure 22).

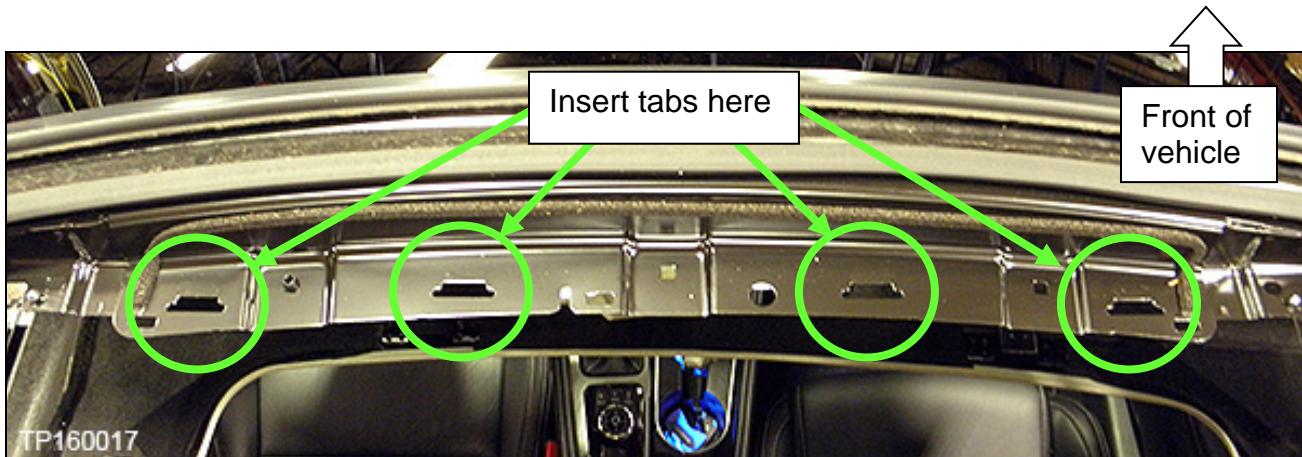


Figure 22

7. Slide the wind deflector toward the front of the vehicle and snap the 3 attachment clips (shown in Figure 21) into the Moonroof frame.

NOTE: Confirm that all three attachment clips are completely engaged.

8. Install the pivot clips onto both wind deflector arms and then proceed to install the clips, one at a time, onto the Moonroof frame.
9. Confirm that the molded tabs are completely locked into the Moonroof frame, and are flush with Moonroof frame (Figure 23).

- Figure 23 shows driver's side pivot clip with wind deflector arm removed so that molded tab can be seen.

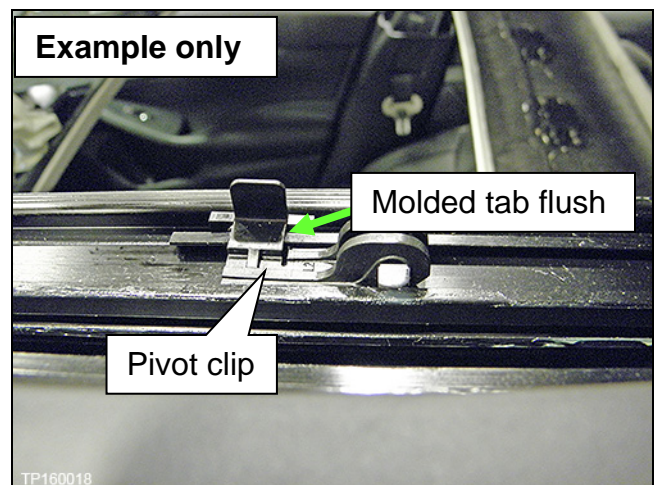


Figure 23

10. Reinstall the left and right inner blinds.

- a. Slide the top of the left and right inner blinds onto their guides (Figure 24).

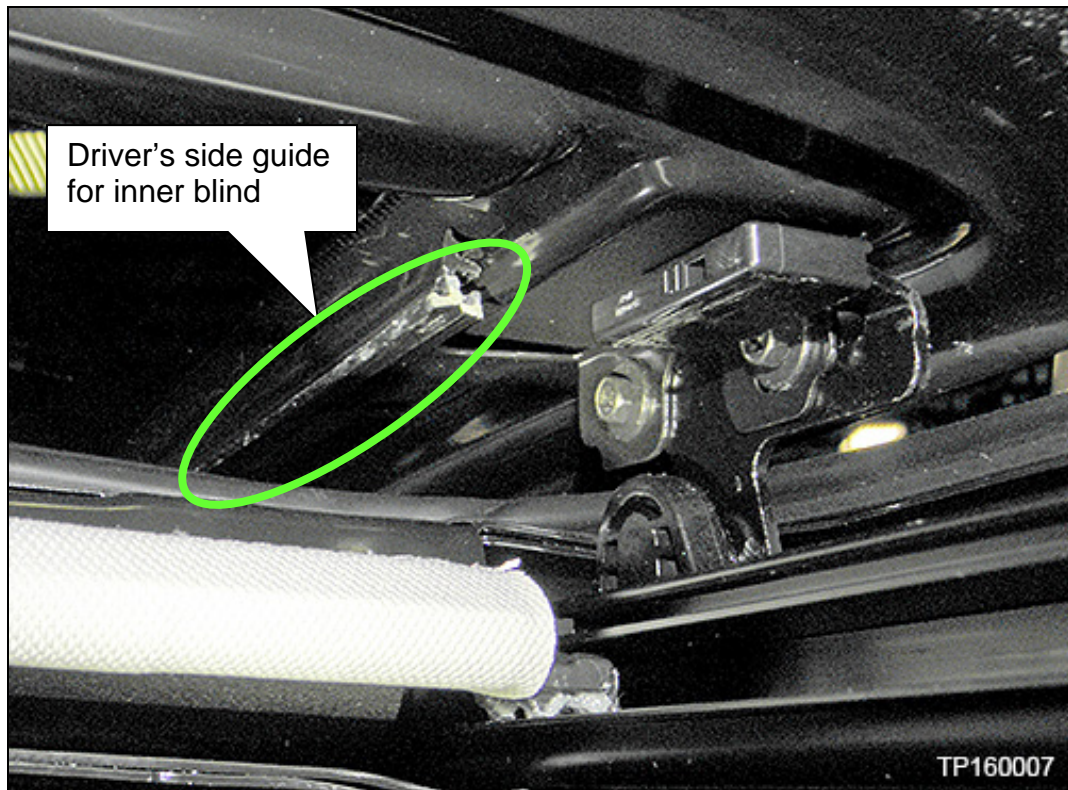


Figure 24

- b. Reconnect the front clip of the inner blind to the front corner of the Moonroof frame (Figure 25).
- c. Attach the bottom of the inner blinds to the Moonroof frame.

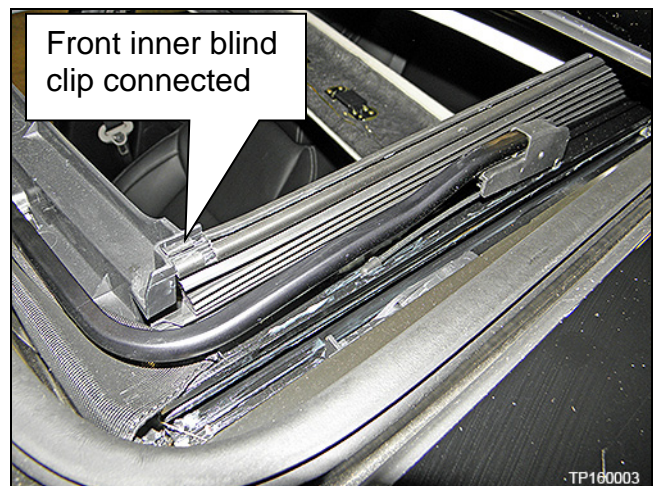


Figure 25

11. Close Moonroof.

12. Turn the ignition OFF.

Trim Panel Replacement

If the trim panel is scratched, has seal issues or trim panel is not seated follow the steps below

IMPORTANT: Do not lower the headlining to repair or replace trim panels.

1. Is a trim panel only loose (no scratches or seal issues)?

YES: Snap the trim panel into place using even downward pressure over each clip. If the trim panel seats completely no further repairs are required. If it will not seat proceed to step 2.

NO: Proceed to step 2 to replace trim panels.

Removal

NOTE: The following Figures are of the driver's side. The passenger side is similar.

2. Turn the ignition ON, but do not start engine.
3. Open the Moonroof completely.

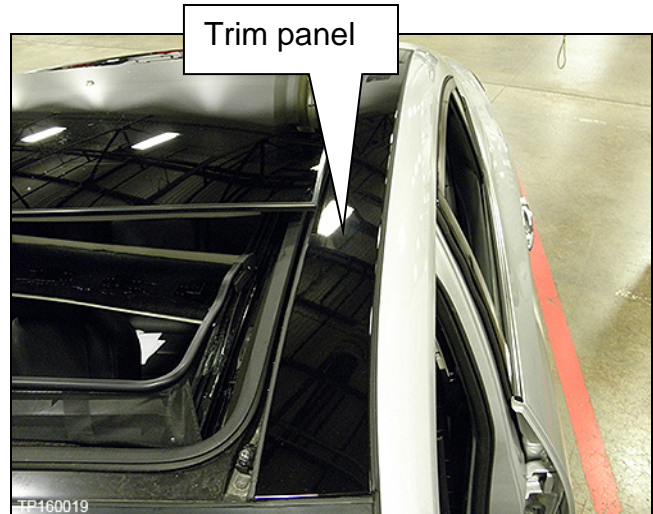


Figure 26

4. Remove inboard screw (single use T25, Figure 27) securing the front of the affected trim panel.

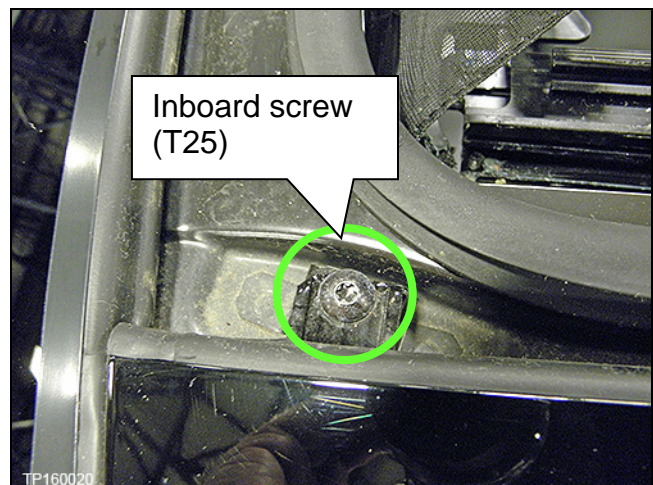


Figure 27

5. Using a finesse stick, lift the trim panel at the front outside edge (Figure 28).
6. Slide finesse stick down the length of the outside edge of the trim panel to detach all clips (Figure 28).



Figure 28

7. After removing the trim panel, inspect the attachment rails on the roof that the trim panel attaches to (total of 5 per side).

- If an attachment rail is bent, use a finesse stick to lift and straighten it.

NOTE: Figure 29 is an example of a straight attachment rail.

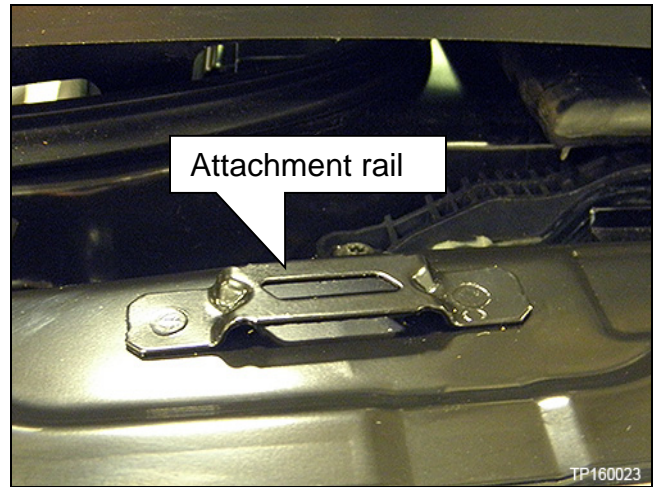


Figure 29

Installation

8. Center the 3 trim panel pins into each slot on the trim panel.

- Figure 30 shown centered.

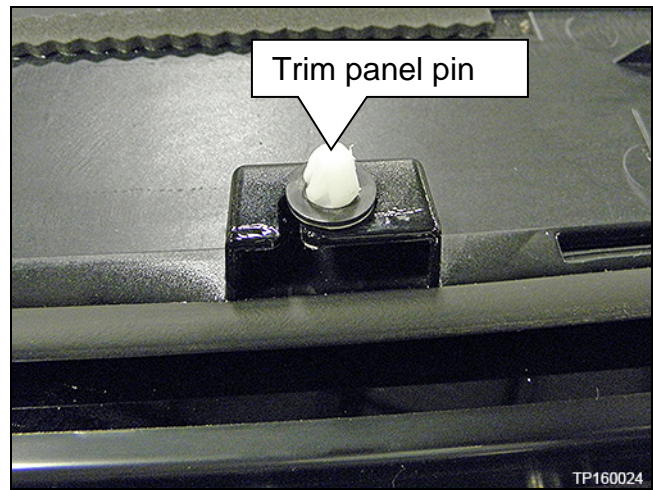


Figure 30

9. Tuck the trim panel outer seal under the windshield glass seal (Figure 31).

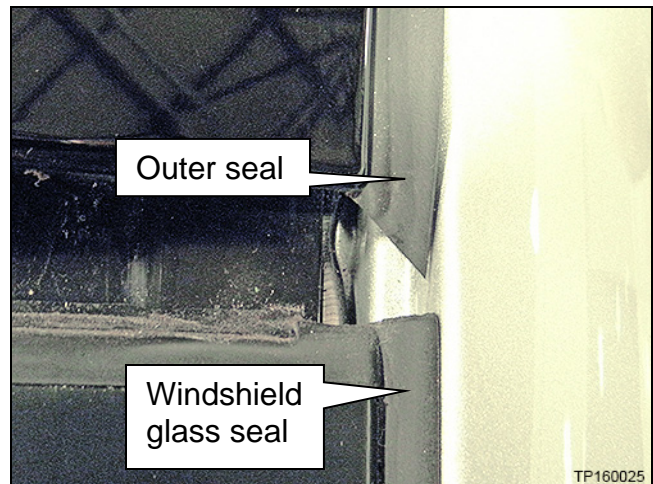


Figure 31

10. Starting from the front of the vehicle and moving rearward, attach each push pin to roof (Figure 32).

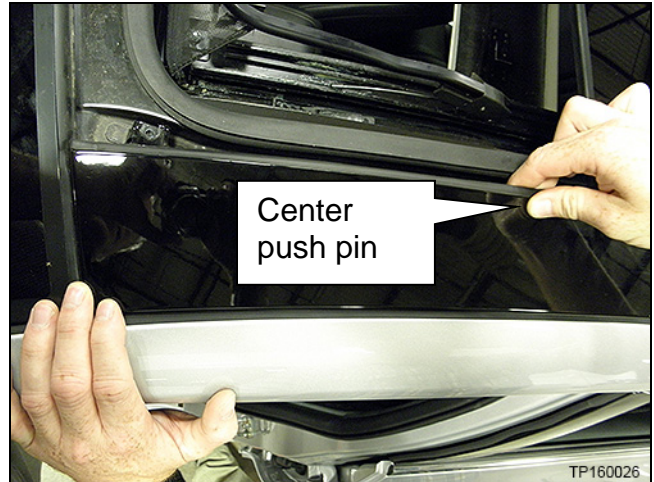


Figure 32

11. After the push pins are all attached, seat all square clips.

NOTE: Excess urethane sealant can hold the trim panel out of position at the ends and not allow it to be seated. Trimming the extra urethane sealant will sometimes relieve the condition and allow it to seat.

12. Tuck the rear trim panel seal under rear window glass (Figure 33).

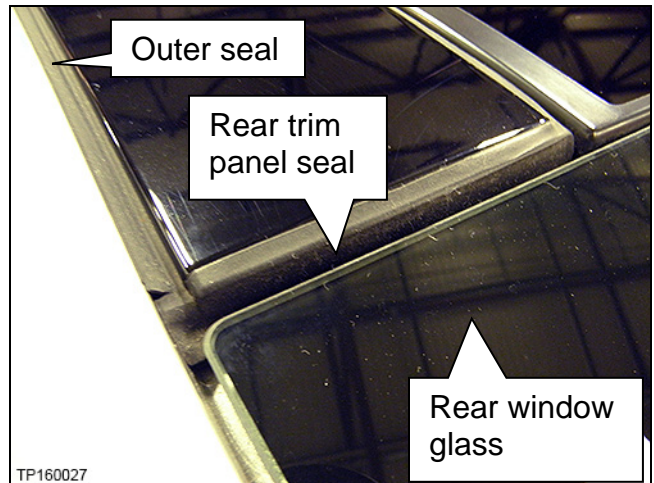


Figure 33

13. Install the new T25 inboard screw (Shown in Figure 27 on page 12) into the front of the trim panel.

- Torque bolts to: 2.5 N•m (0.255 kg-m, **22 in-lb.**)

14. Close the Moonroof.

15. Turn the vehicle OFF.

Moonroof Glass Adjustment

If the Moonroof needs to be adjusted, loose screws tightened or the glass is out of position follow the steps below.

IMPORTANT: Do not lower the headlining to adjust Moonroof position.

How is the Moonroof out of adjustment?

- If there is a gap between the Moonroof and the front edge of the roof opening proceed to step 1.
- If there is a gap between the Moonroof and the front edge of the roof opening **and** also too high or low at one or more corners proceed to step 1.
- If the Moonroof is too high or low at one or more corners proceed to step 3.

1. Turn the ignition ON, but do not start engine.
2. Re-initialize the Moonroof (procedure on page 31) and recheck the gap to the front edge of the roof opening.

- Has the the gap closed after Re-initialization, and are all the corners of the Moonroof now flush with the top of the vehicle?

NO: Proceed to step 3.

YES: Repair complete. Turn ignition OFF.

NOTE: The following Figures are of the driver's side. The passenger side is similar.

3. Open the Moonroof all the way.
4. Remove the left and/or right inner blinds (Figure 34) to access the adjustment screws.

NOTE: Only remove the inner blind necessary for the required adjustment.

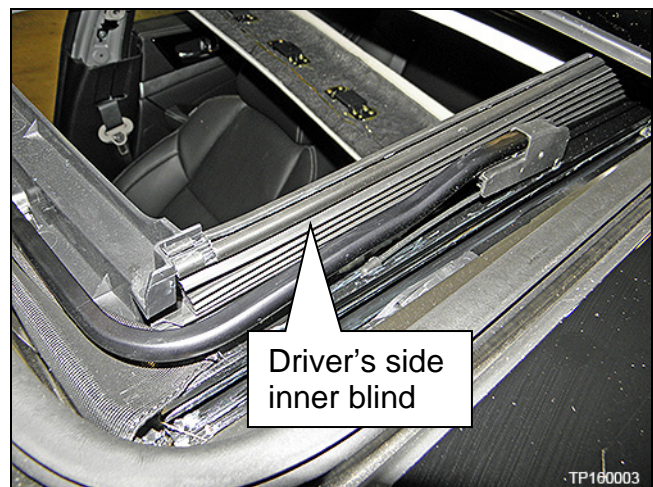


Figure 34

- a. Unclip the left and right inner blinds at the front corners of the “Moonroof unit assembly” (Moonroof frame) with an appropriate tool.
- Figure 35 shows inner blind unclipped.

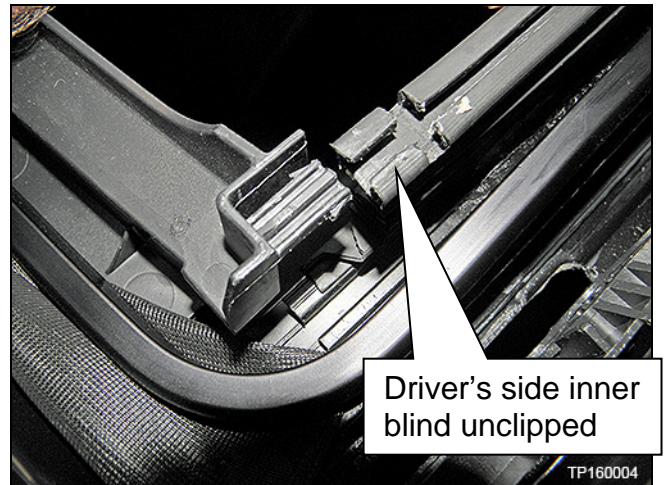


Figure 35

- b. Carefully detach the inner blinds from the Moonroof frame by pushing toward the inside of the vehicle along the bottom edge of inner blind (Figure 36).

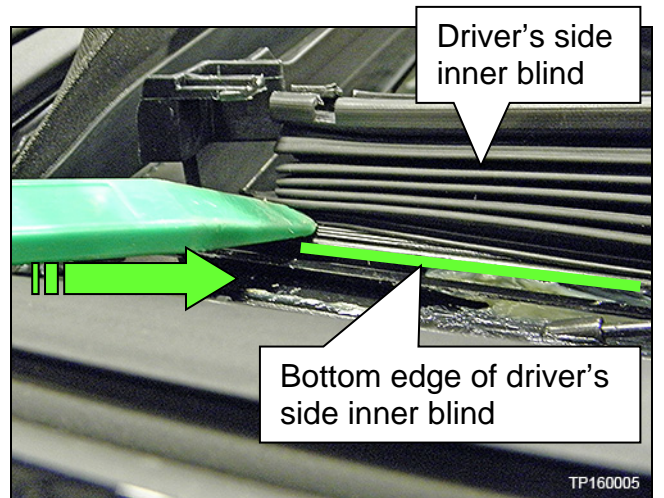


Figure 36

- c. Slide each inner blind off of the Moonroof guides (Figure 37).

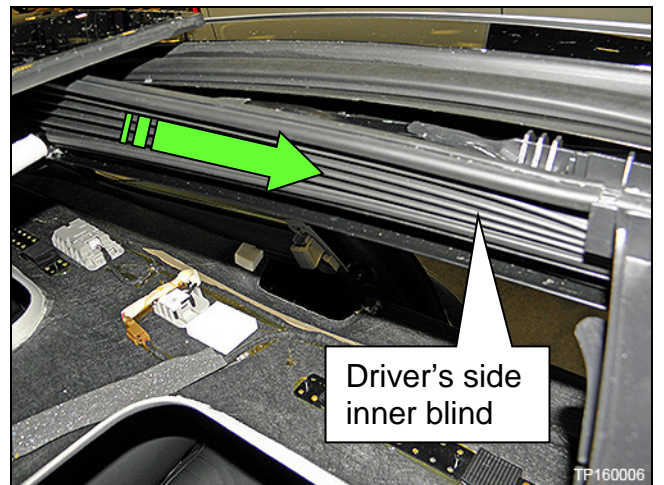


Figure 37

5. Move the Moonroof to the half way open position.
6. Remove the right and/or left knocks (Figure 38).
 - a. Lift the knock lock clip with a finesse tool vertically away from the Moonroof guide.
 - b. Slide the knock toward this inside of the vehicle.

NOTE: Only remove the knock necessary for the required adjustment.

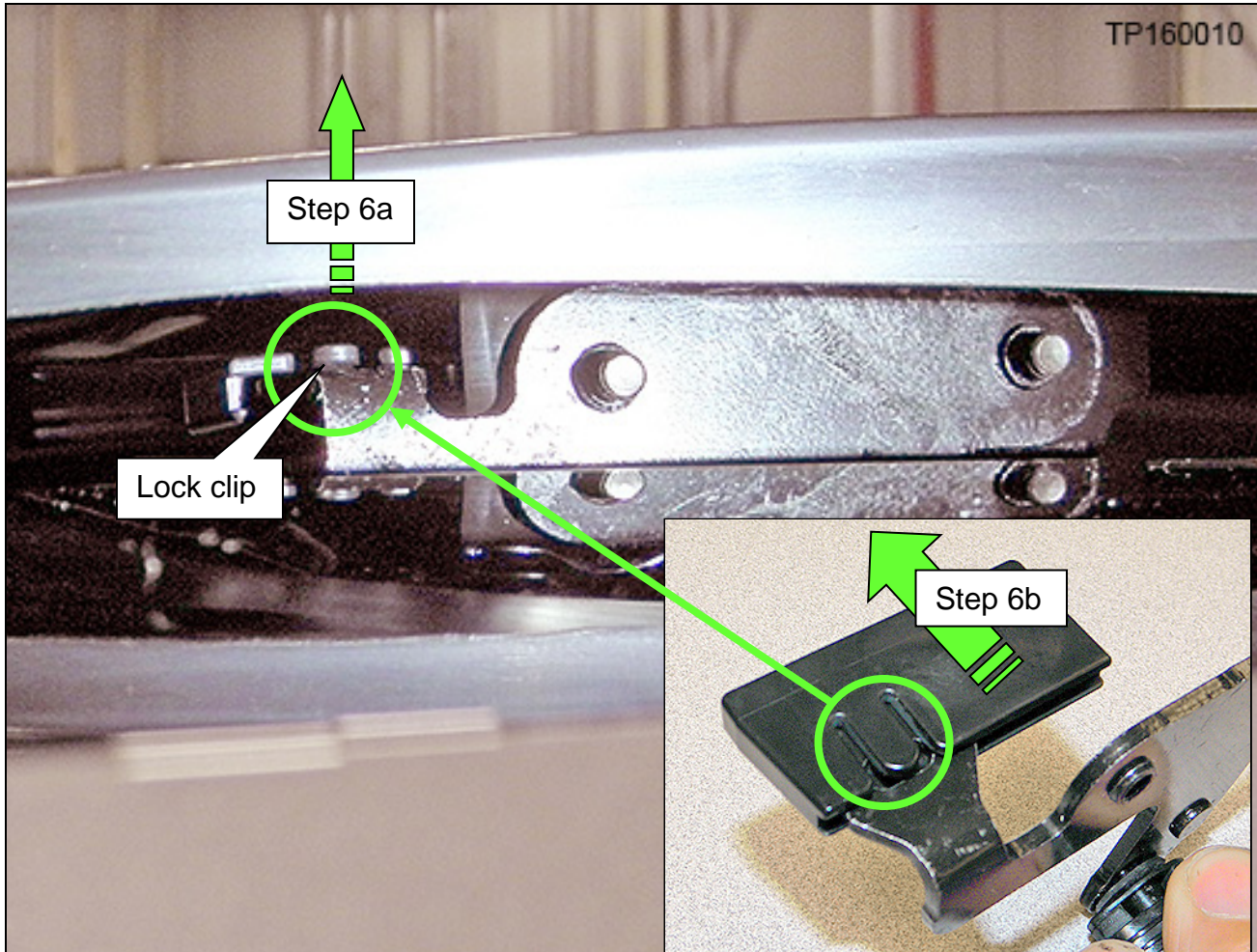


Figure 38

NOTE: Knocks are marked left (L) and right (R). Figure 39 shows a knock for the passenger side and is marked "R".

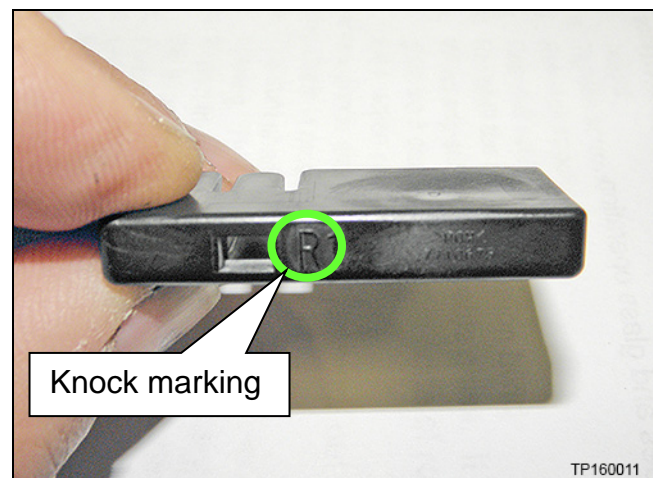


Figure 39

7. Remove left rear and/or right rear Moonroof bolt finishers (Figure 40).

NOTE: Only remove the rear bolts finisher necessary for the required adjustment.

- a. Close the Moonroof to the tilt position.

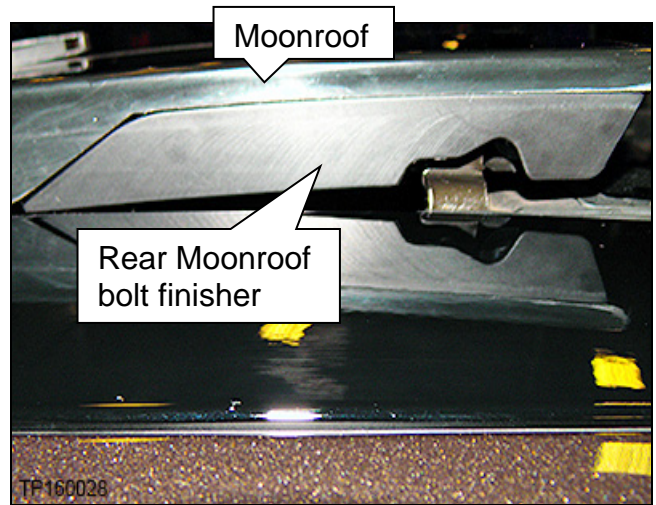


Figure 40

- b. Pull "Moonroof bolt finisher tab" (plastic tab) down and away from the Moonroof and allow to rest in the position shown in Figure 41.

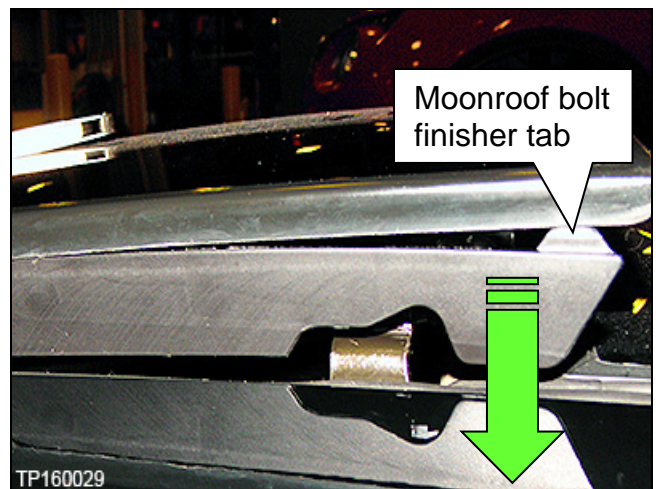


Figure 41

- c. Insert a pocket screw driver between the Moonroof bolt finisher and the Moonroof near the plastic tab (Figure 42).
- d. Apply a slight downward force to the plastic tab end of the Moonroof bolt finisher until the hole through the steel tab can be seen (Figure 42).
- e. Slide the pocket screw driver from the plastic tab up to the hole in the steel tab that the Moonroof release clip is connected to (Figure 42).

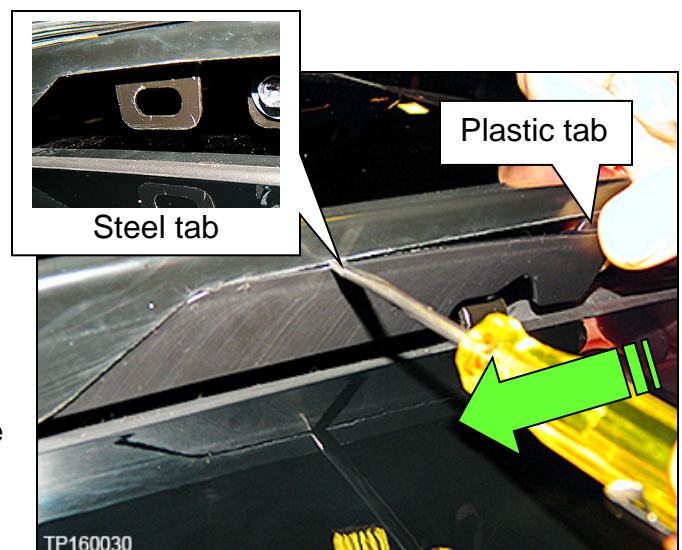


Figure 42

- f. Insert the pocket screw driver through the hole in the steel tab to release the retaining clip (Figure 43).

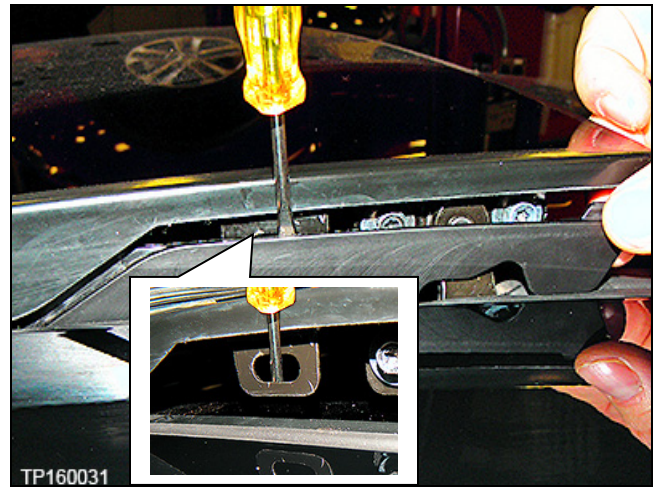


Figure 43

- Figure 44 shows how retaining clip is released.

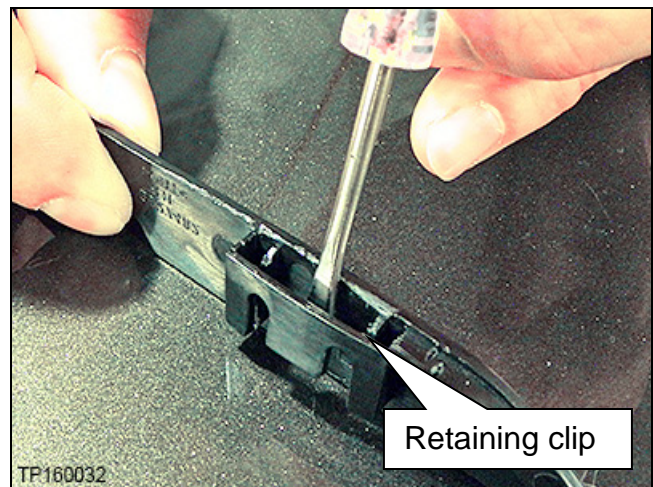


Figure 44

- g. Push Moonroof bolt finisher down and remove from vehicle (Figure 45).

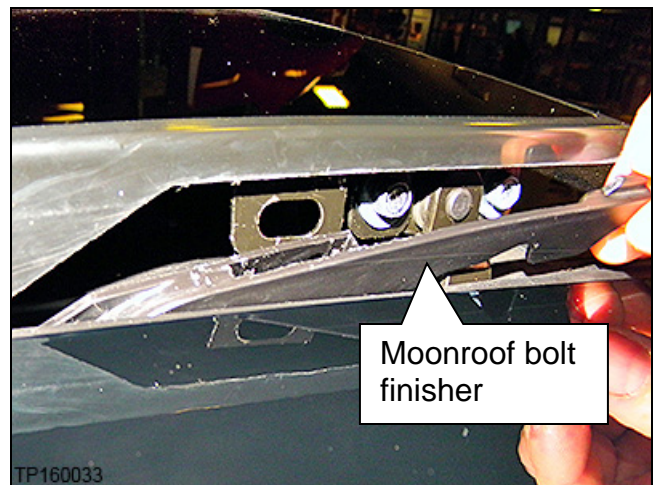


Figure 45

8. Loosen the Moonroof adjustment bolts (Figure 46 for front and Figure 47 for rear) and adjust the glass height to the proper position or height.

- Refer to **Moonroof Adjustment Clearances** at bottom of page.

NOTE:

- Moonroof adjustment bolts should be slightly snug, but not tight to allow adjustments.
- Work one corner at a time to raise and lower individual corners.
- If the Moonroof needs to be moved fore/aft, loosen all adjustment bolts to adjust.

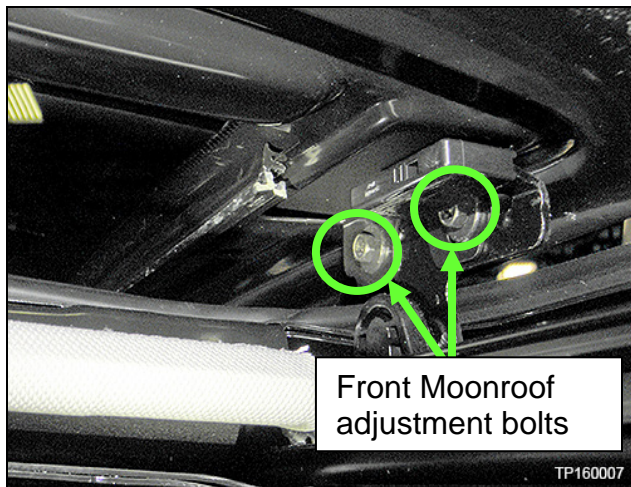


Figure 46

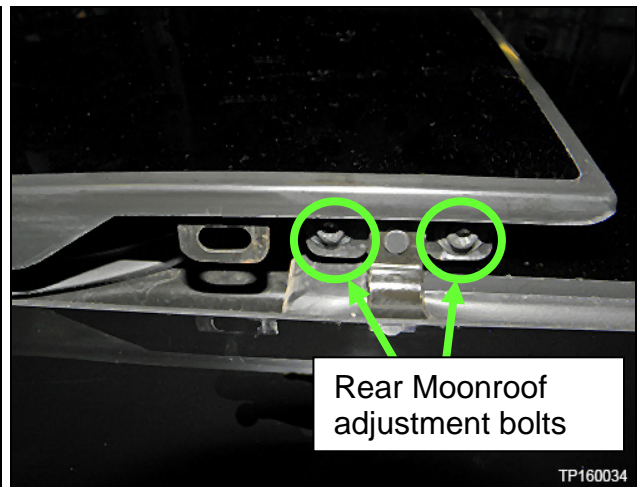
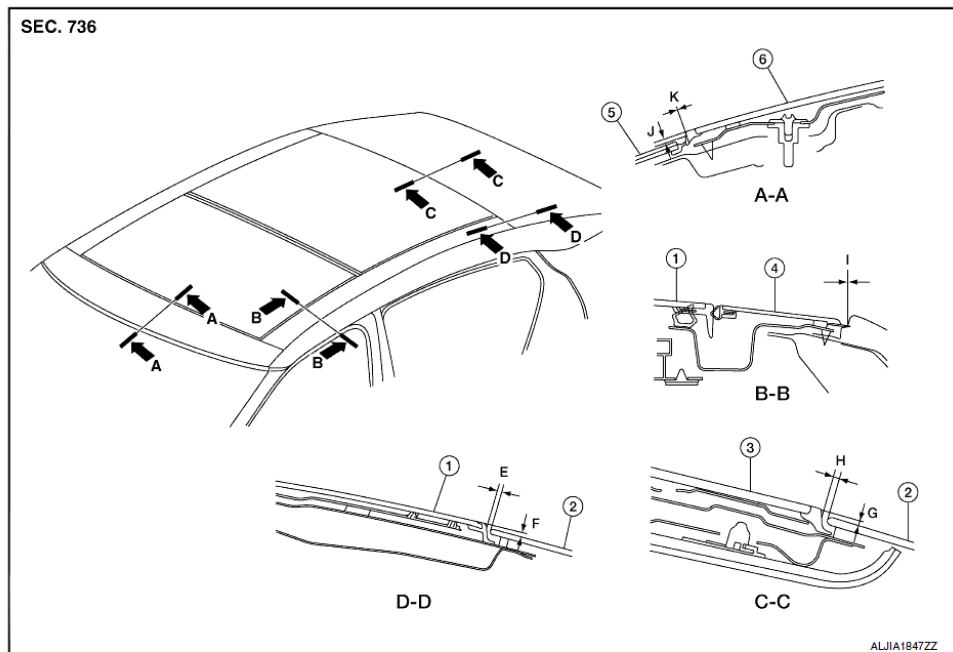


Figure 47

Moonroof Adjustment Clearances



Unit: mm (in)

- | | | |
|--------------------------------------|--------------------------------------|--|
| 1. Glass lid | 2. Rear window glass | 3. Rear moonroof glass |
| 4. Roof side finisher | 5. Windshield | 6. Front moonroof glass |
| E. 3.0 ± 2.2 (0.118 \pm 0.087) | F. 2.7 ± 2.0 (0.106 \pm 0.079) | G. $2.0 + 2.2 - 1.7$ (0.079 + 0.087 - 0.067) |
| H. 3.0 ± 2.1 (0.118 \pm 0.083) | I. 0.0 (No clearance) | J. 4.5 ± 2.0 (0.177 \pm 0.079) |
| K. 0.0 (No clearance) | | |

9. Tighten loosened adjustment bolts.
 - Torque bolts to: 5.5 N•m (0.56 kg-m, **48.68 in-lb.**)

IMPORTANT:

- Make sure that the rear guides the Moonroof attaches to are level.
- Figure 48 is shown with screws removed to overemphasize incorrect pivot angle.

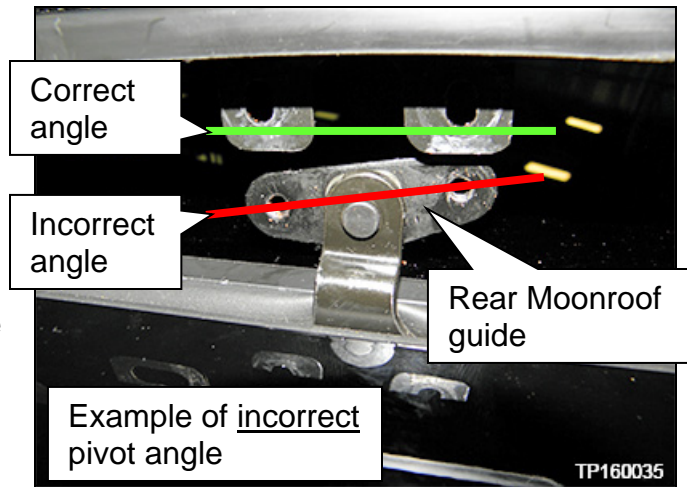


Figure 48

10. Close the Moonroof and check adjustment.

11. Perform steps 8 through 10 until the correct Moonroof adjustment is achieved.

12. Move the Moonroof to the half way open position.

13. Reinstall the removed knocks and rear Moonroof screw finishers.

- Pull on the knock to confirm that it is completely seated on the Moonroof guide.
- See Figure 49 for example of correctly installed knock.

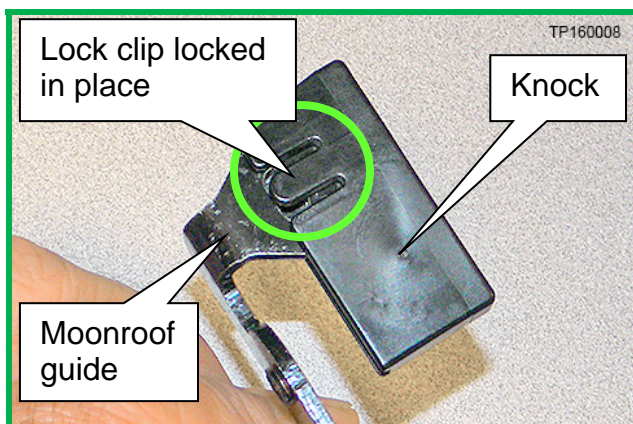


Figure 49



Figure 50

Figures 49 and 50 shown with Moonroof guide unbolted from Moonroof frame for clarity.

14. Reinstall the left and right inner blinds.

- a. Slide the top of the left and right inner blinds onto their guides (Figure 51).

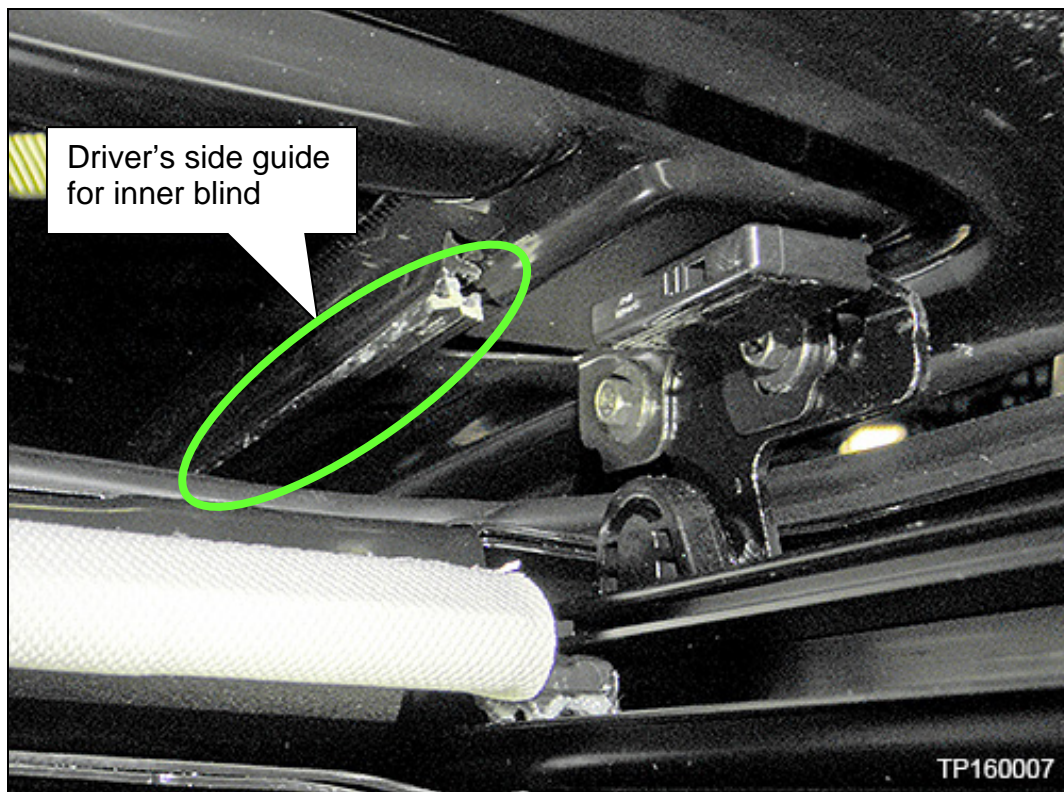


Figure 51

- b. Reconnect the front clip of the inner blind to the front corner of the Moonroof frame (Figure 52).
- c. Attach the bottom of the inner blinds to the Moonroof frame.

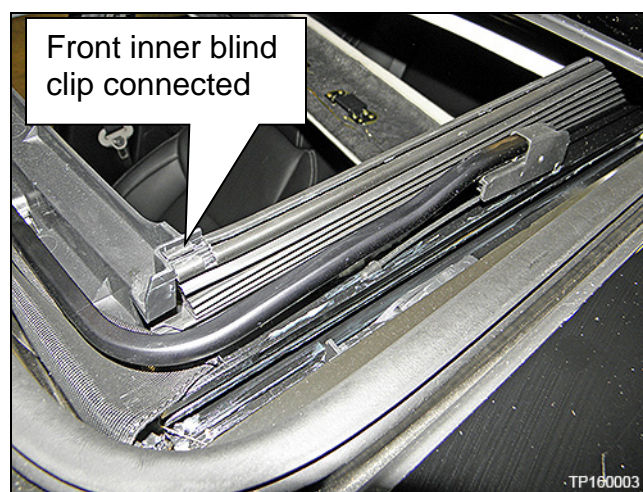


Figure 52

15. Perform Initialization of Moonroof (procedure on page 31).

16. Close Moonroof.

17. Turn the ignition OFF.

Front or Rear Sunshade Replacement

If the sunshade needs to be replaced due to discoloration, being jammed, out of track, loss of tension or popping/clicking while in motion, follow the steps below.

1. Inspect the “Moonroof unit assembly” (Moonroof frame) track and rails for dents, dings and gouges that might have caused the issue.
 - If the Moonroof track or rails are damaged perform the sunshade **Removal** procedure starting from step 2 (below), replace the Moonroof frame and then perform sunshade **Installation** procedure on page 27.

NOTE: Refer to the Electronic Service Manual (ESM), section **RF – Roof** to remove and install Moonroof frame.

- If no damage is found proceed to step 2.

Removal

2. Lower the headlining and let it rest on the seat head rests.
 - Refer to the Electronic Service Manual (ESM), section **RF – Roof** to remove and install headlining.

IMPORTANT:

- **Do not remove the front or rear windshield from the vehicle.**
- **Do not remove the headlining from inside the vehicle.**

NOTE: The following Figures may be of either the driver or passenger side. Both sides are similar.

3. Remove two bolts per side air bag (4 total) that attach the left and right side airbags to the roof rail and then allow them to hang free (Figure 53).

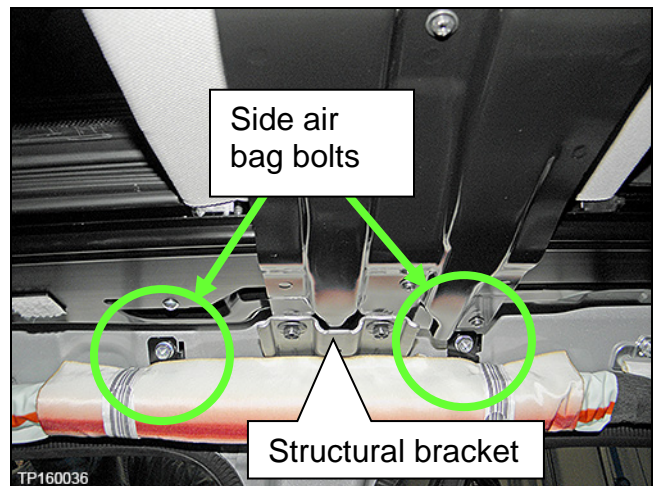


Figure 53

4. Remove the left and right structural brackets (Figure 54) attached to the center reinforcement support (4 bolts each; highlighted in Figure 54).

NOTE: It is not necessary to remove the harness from the driver's side bracket (Figure 54).

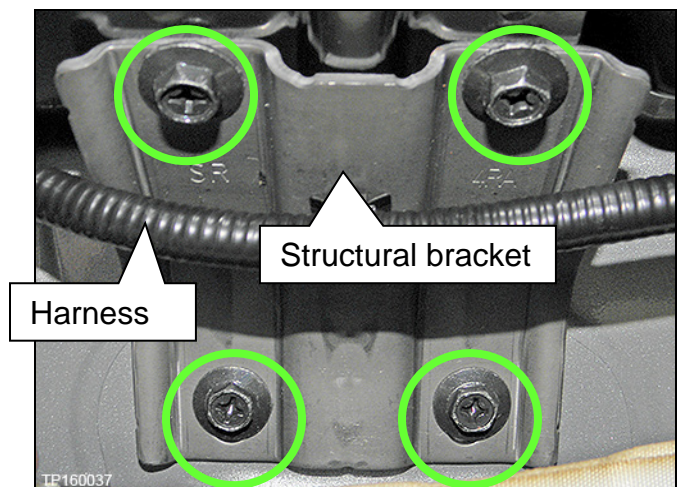


Figure 54

5. Remove the center reinforcement support (Figure 55) held by 9 T20 bolts.
 - Center reinforcement support shown outside vehicle for clarity.

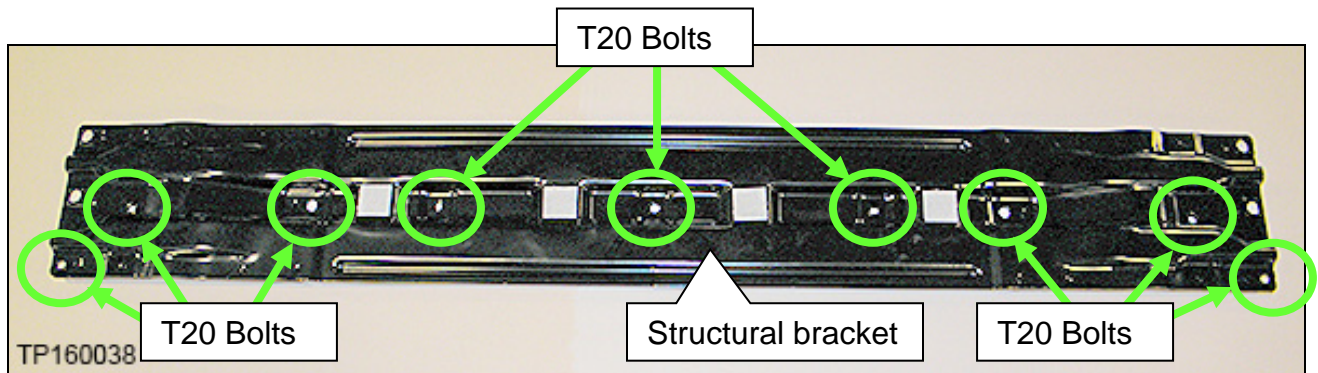


Figure 55

IMPORTANT: In the following steps only remove the sunshade requiring replacement.

- The following steps can be used for front or rear sunshades.
- The front bar of the Maxima sunshade is curved to match the front opening. The rear sunshade has a straight bar.

6. Turn the ignition ON, but do not start engine.
7. Partially open the affected sunshade to gain access to the sunshade's coupler release tab.
 - Figure 56 and Figure 57 show the right side of the front sunshade.
8. Detach the sunshade from the sunshade coupler by pressing the coupler release tab (Figure 56).

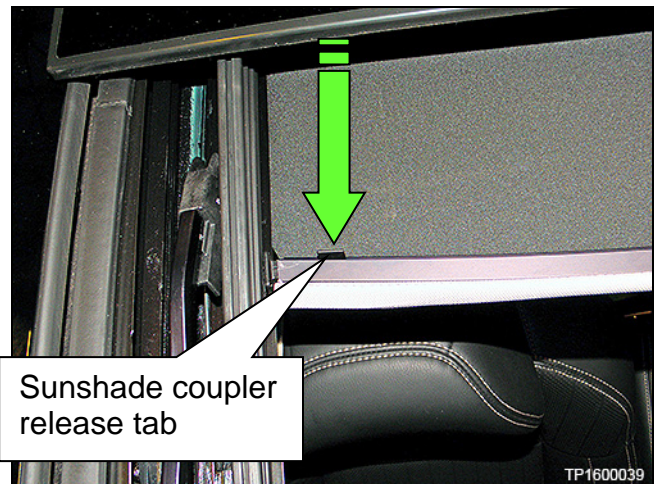


Figure 56

- Figure 57 shows sunshade coupler detached.

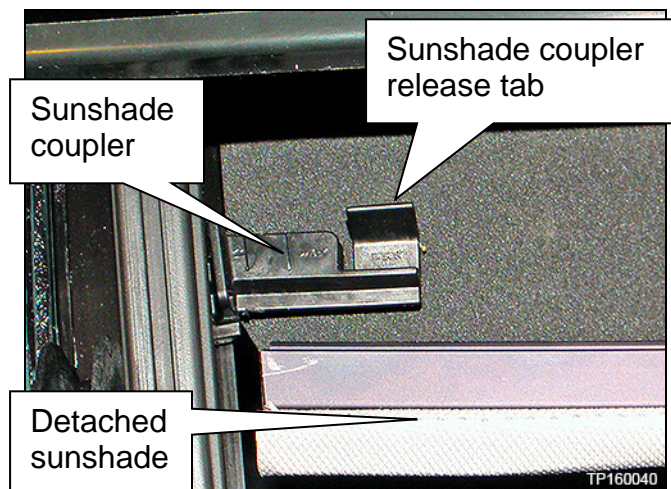


Figure 57

9. Detach the affected (front and/or rear) sunshade from the Moonroof frame.

NOTE: Only remove the sunshade that is to be replaced.

Rear shade:

- a. Detach the rear sunshade by pulling it toward the right of the vehicle to compress tension spring (Figure 58).
- b. While compressing the tension spring on right side, tilt left side down to clear pivot.
- c. Slowly release compression pressure, but do not remove the sunshade from the right side pivot in Moonroof frame.
- d. Ratchet the sunshade gently in the retract direction (rolled up) until the ratchet holds the coil spring tension.
- e. Remove the sunshade from the vehicle.
- f. Install the pull pin (Figure 60) into sunshade (a paper clip will also work).

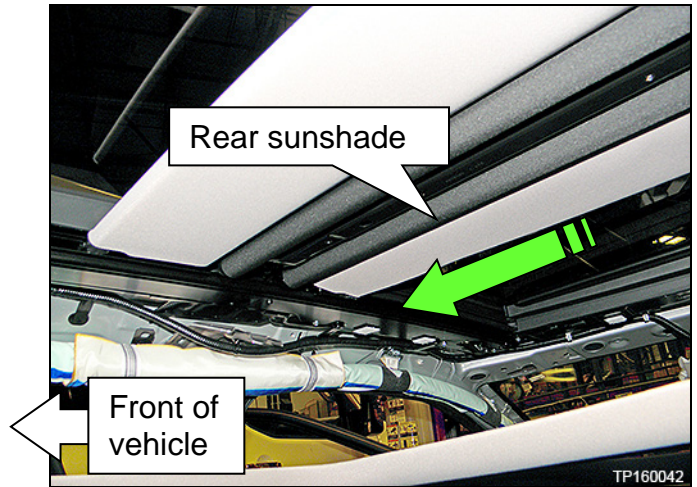


Figure 58

Front shade:

- a. Detach the front sunshade by pulling it toward the left of the vehicle to compress tension spring (Figure 59).
- b. While compressing the tension spring on left side, tilt right side down to clear pivot.
- c. Slowly release compression pressure, but do not remove the sunshade from the left side pivot in Moonroof frame.
- d. Ratchet the sunshade gently in the retract direction (rolled up) until the ratchet holds the coil spring tension.
- e. Remove the sunshade from the vehicle.
- f. Install the pull pin (Figure 60) into sunshade (a paper clip will also work).

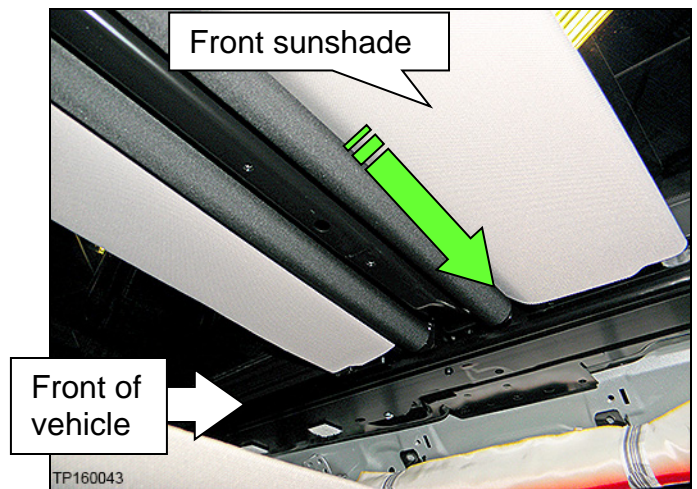


Figure 59

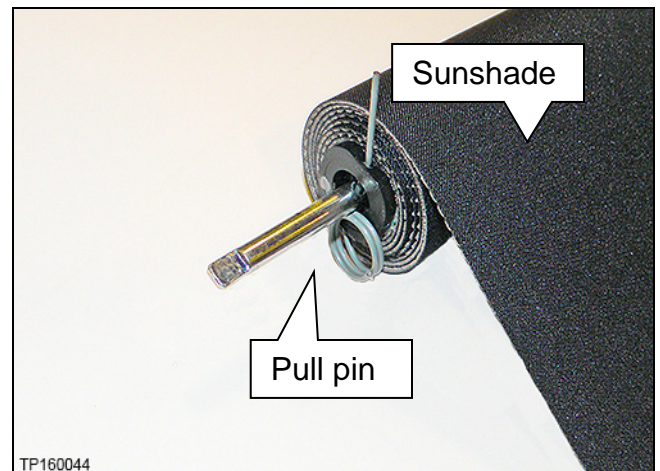


Figure 60

Installation

10. Reinstall the front and/or the rear sunshades.

Rear shade:

- a. Gently remove the pull pin from the rear sunshade (Figure 60).
- b. While securely holding the rear sunshade, push it into the passenger side pivot mount in the Moonroof frame.
- c. While still preventing the rear sunshade from rotating, tilt it up on the driver side and install it into the Moonroof frame.
- d. Continuing to prevent the rear sunshade from rotating, partially open the sunshade and connect to couplers.

Front shade:

- a. Gently remove the pull pin from the front sunshade (Figure 60).
- b. While securely holding the front sunshade, push it into the driver side pivot mount in the Moonroof frame.
- c. While still preventing the front sunshade from rotating, tilt it up on the passenger side and install it into the Moonroof frame.
- d. Continuing to prevent the front sunshade from rotating, partially open the sunshade and connect to couplers.

11. Re-install the steel center reinforcement (9 T20 bolts).

- Torque bolts to: 3 N•m (0.30 kg-m, **26.55 in-lb.**)

12. Re-install the left and right structural brackets attached to the center reinforcement support (4 bolts each).

13. Re-install the left and right side airbags to the roof rail.

- Torque bolts to: 10.5 N•m (1.1 kg-m, **8 ft-lb**)

14. Using the Moonroof switch, check the function of both sunshades before reinstalling the headlining.

15. Re-initialize the sunshades (procedure on page 31).

16. Re-install the headlining.

17. Turn the ignition OFF.

Moonroof or Sunshade Motor and Drive Cable Replacement

If the Moonroof or Sunshade motors are inoperative or noisy, follow the steps below.

1. Turn the ignition ON, but do not start engine.
2. Re-initialize the affected drive motor (Moonroof or sunshade) with procedure on page 31.

NOTE: You might have to bump the Moonroof or sunshade to the closed position using the switch on the headlining before initialization.

- If motor will not function, check all electrical connections. Refer to the Electronic Service Manual (ESM), section **RF – Roof** for further information.

3. Does the Moonroof or sunshade now operate correctly?

YES: Repair complete. Turn ignition OFF.

NO: Proceed to step 4.

4. Drop the headlining and let it rest on the seat head rests.

- Refer to the Electronic Service Manual (ESM), section **RF – Roof** to remove and install headlining.

IMPORTANT:

- Do not remove the front or rear windshield from the vehicle.
- Do not remove the headlining from inside the vehicle.

5. Inspect the drive cables in the rear of the Moonroof frame. Have the cables come out of the track?

NO: Proceed to step 6.

YES: Proceed to step 12.

6. Loosen the two mounting bolts of the affected drive motor.
 - Figure 61 shows the sunshade drive motor bolts (T25). The Moonroof drive motor bolts are similar.

NOTE: For reference, the sunshade motor is furthest forward on the Moonroof frame.
7. Lower the affected drive motor to relieve drive cable tension, and then re-install drive motor.
 - Torque bolts to: 3 N•m (0.30 kg-m, **26.55 in-lb.**)
8. Re-initialize the affected drive motor (procedure on page 31).

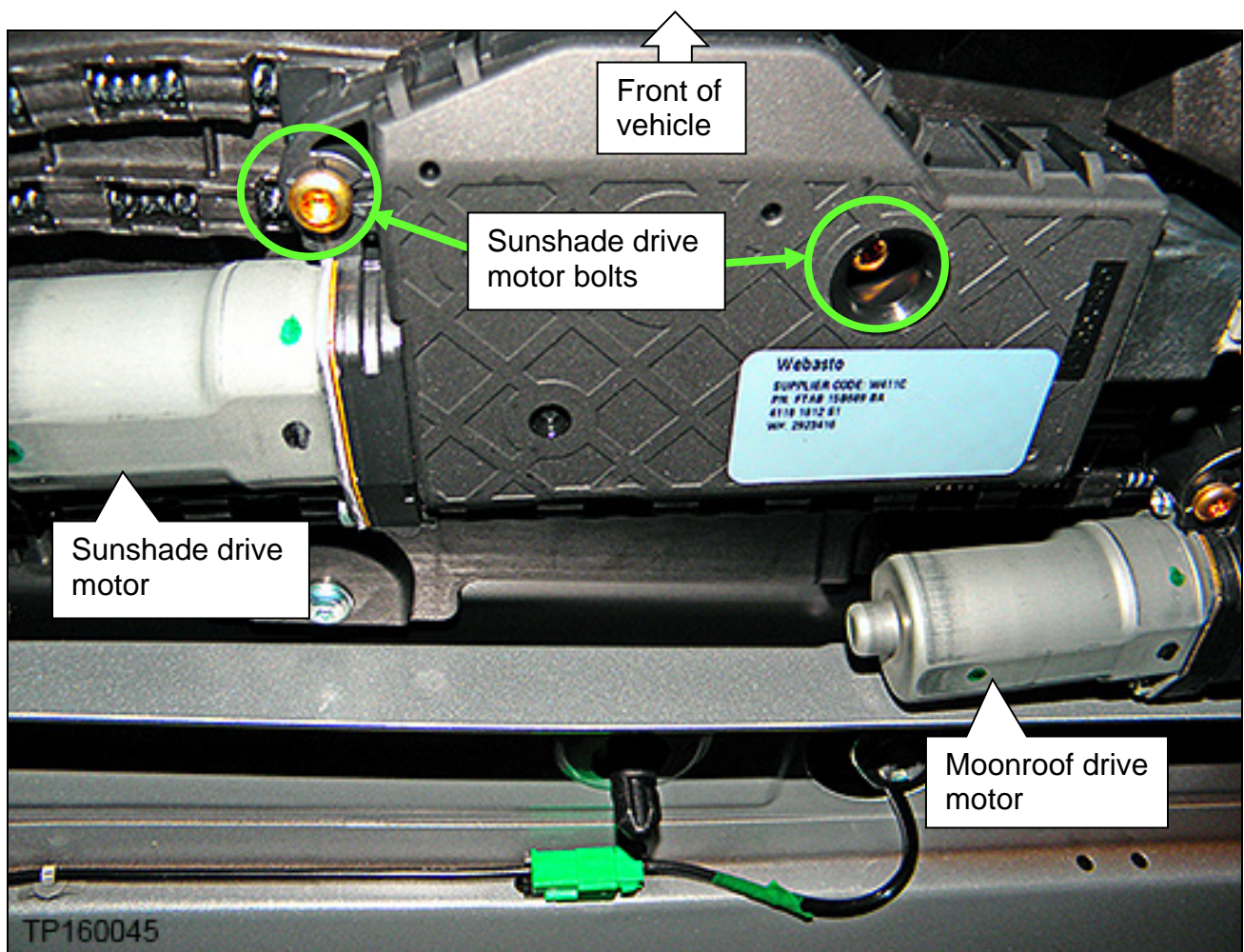


Figure 61

9. Re-check the Moonroof or sunshade function using the front headlining switch. Does the Moonroof or sunshade now operate correctly?

YES: Repair complete. Turn ignition OFF.

NO: proceed to step 10.

10. Replace only the affected drive motor.

- Torque bolts to: 3 N•m (0.30 kg-m, **26.55 in-lb.**)

11. Re-initialize the affected drive motor (procedure on page 31). Does the Moonroof or sunshade now operate correctly?

YES: Repair complete. Turn ignition OFF.

NO: proceed to step 12.

12. Replace the Moonroof frame assembly.

- Refer to the ESM, section **RF – Roof** for removal and installation.

13. Transfer the Moonroof and sunshade motors from the old to the new Moonroof frame.

- Torque bolts to: 3 N•m (0.30 kg-m, **26.55 in-lb.**)

14. Perform Initialization of the Moonroof **and** sunshade (procedure on page 31).

13. Reinstall the headliner.

15. Turn ignition OFF.

Initialization Procedure

1. Turn the ignition ON.
2. Close the Moonroof glass and power sunshade.
 - a. Press the Moonroof switch in the CLOSE position. Press the switch repeatedly if needed.
 - b. Confirm the glass **is not** in the tilt-up position.

Read steps 3 and 4 carefully before proceeding. Step 4 includes an action that will need to be performed quickly.

3. Press **and hold** the Moonroof switch in the CLOSE position until the glass and power sunshade operates through several small movements (10 - 20 seconds).
4. After the glass has been motionless for 5 seconds, release the switch and within 1 second, press **and hold** the switch in the CLOSE position again.
5. Continue to hold the switch until the glass and power sunshade fully opens and then fully closes.
6. Confirm the Moonroof successfully initialized.
 - a. Tilt the glass.
 - b. Fully open and close the glass and power sunshade.

NOTE: The rear Moonroof glass is fixed and does not move.

7. Repeat the initialization procedure if the Moonroof does not function properly.

NOTE:

- It may take up to 5 attempts to successfully initialize the Moonroof.
- If unsuccessful after 5 attempts, clear the memory by holding the switch in the OPEN position for 15 seconds. Then, repeat the initialization procedure.

Anti-Pinch Function

1. Fully open the Moonroof.
2. Place a piece of wood near the fully closed position.
3. Close the Moonroof completely with auto-slide close function.
4. Check that Moonroof opens approximately 150 mm (5.91 in) or reverses for 2 seconds without pinching a piece of wood and then stops.
5. Fully open sunshade.
6. Place a piece of wood near fully closed position.
7. Close the sunshade completely with the auto slide close.
8. Check that sunshade opens approximately 150 mm (5.91 in) or reverses for 2 seconds without pinching a piece of wood and then stops.

CAUTION: Do not test the anti-pinch function with your hands or other body parts because they may be pinched.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
GUIDE ASSY-SUNROOF (1) (Right Side Moonroof Cable Repair Kit)	91358-4RA1A	1
GUIDE ASSY-SUNROOF (1) (Left Side Moonroof Cable Repair Kit)	91359-4RA1A	1
DEFLECTOR ASSY-SUNROOF (Moonroof Wind Deflector)	91280-4RA1A	1
FINISHER ASSY-ROOF, RH (Trim Panel Right Side)	91760-4RA1A	1
FINISHER ASSY-ROOF, LH (Trim Panel Left Side)	91761-4RA1A	1
MOTOR ASSY-SUNROOF (Moonroof Drive Motor)	91295-4RA1A	1
MOTOR ASSY-SUNROOF (Sunshade Drive Motor)	91232-4RA1A	1
SHADE ASSY-SUNROOF, FRONT	91684-4RA1A	1
SHADE ASSY-SUNROOF, REAR	91688-4RA1A	1
FRAME ASSY-SUNROOF	91300-4RA1A	1

(1) This kit contains 1 knock. If a right and left knock are needed, both Left Side and Right Side Moonroof Cable Repair Kits must be ordered.

CLAIMS INFORMATION

Only Claim for the operations which were actually performed to repair vehicle.

Submit a Primary Part (PP) type line claim using the following claims coding:

OPERATION	PFP	OP CODE	SYM	DIAG	FRT
Replace Knock Insert	(1)	BX5LAA	ZE	32	0.3
Replace Sun Roof Wind Deflector	91280-4RA1A	UQ20AA	ZE	32	(4)
Replace Sun Roof Panel Finisher	(2)	UQ16AA	ZE	32	(4)
Adjust Moon Roof Glass	91300-4RA1A	BX5MAA	ZE	32	0.4
Replace Sun Roof Panel Finisher	(3)	UQ16AA	ZE	32	(4)
Replace Moon Roof Drive Motor	91295-4RA1A	UQ26AA	ZE	32	(4)
RPL Sunshade Drive Motor	91232-4RA1A	UQ27AA	ZE	32	(4)

- (1) Reference the Parts Information Table and use the applicable Part Number (91358-**** or 91359-****) as the Primary Failed Part.
- (2) Reference the Parts Information Table and use the applicable Part Number (91760-**** or 91761-****) as the Primary Failed Part.
- (3) Reference the Parts Information Table and use the applicable Part Number (91684-**** or 91688-****) as the Primary Failed Part.
- (4) Reference the current Nissan Warranty Flat Rate Manual and use the indicated flat rate time.