

STAR ONLINE PUBLICATION

Case Number: S2023000014

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Symptom/Vehicle Issue: Single Pop Noise From Rear Of Sunroof While Opening

Discussion: With aid of a helper, view the roof while operating the sunroof in “Vent” and “Open” positions. If the sheet metal of the roof is grabbed and pulled down by the sunroof glass/seal causing a single pop noise follow the below prior to replacing any components. Note minor movement of the roof skin is normal. The sunroof seal presses against the roof and some minor deflection will occur without a pop noise.

1. Inspect the sunroof glass seal for damage, taking a “set” or wear to the surface. The surface of the seal should be slick to the touch. If it is worn smooth, feels tacky or sticky replace the sunroof glass (seal comes bonded to the glass). Normal seal appearance is slightly rough texture but slick to the touch. If the texture is ok and no wear found, apply weather strip lubricant 04773427AB to the seal. Note it is necessary to remove the glass to apply the lube. Reinstall the glass and go to step 2.
2. Verify glass installed height first. Refer to service information 23 - Body / Sunroof / GLASS, Sunroof / Adjustments. Set the glass position to the 0mm to -2mm in front and -1mm under flush to roof at rear corners.- Note this differs from service information. Use non-marring body gap feeler gage Mopar Essential tool #2022300230 to help center the glass in the roof opening.

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3. Operate the sunroof through the Open and Vent positions again. Is the condition still present?
 - a. Yes, still popping> continue to step 4
 - b. No, condition no longer present> perform Verification test at the bottom of this document.

4. Adjust sunroof glass forward using glass-mounting screws while still maintaining the glass height specification from step 2. Loose the screws, insert (2) 5mm feeler gauges (tool 2022300230) between rear of sunroof glass and the roof to space the glass 5mm forward. Tighten screws to 49 in.lbs (5.5nm). Test operation of the sunroof in Vent and Open/Close positions. Is concern still present?
 - a. Yes still popping> go to step 5
 - b. No> perform verification test.

5. If the sunroof glass is at the max forward position, an adjustment to the frame is next. Refer to steps in service information 23 - Body / Sunroof / SUNROOF / Removal to gain access to the sunroof frame attaching screws. Loosen the screws but do not remove. With the aid of a helper pushing the frame forward

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tighten the attaching screws to 9 N·m (80 in. lbs.). Test operation of the sunroof. Is the pop noise condition still present?

- a. Yes> contact STAR Center referencing this Star Online Publication number.
- b. No> noise is no longer present and roof movement is minor- perform verification test at the bottom of this document.

Verification: Test drive to confirm there is no excessive wind noise. Water test using a showerhead with natural arc of water flowing on to the roof to confirm no water leaks are present. Allow the water to cascade off the vehicle. If no leaks found, return to customer.

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