

**Noise Symptom - Creaking Noise from Panoramic Roof When Driving (I-no. 3FU):
Reworking panoramic roof (SY 139/18)**

Vehicle Type: **Panamera (971)**

Model Year: **As of 2017 up to 2018**

Equipment: **Porsche large roof system (I-no. 3FU)**

Subject: **Panoramic roof**

Symptom: Loud creaking noises can come from the panoramic roof area while driving.

Cause: Certain threaded joints between the roof assembly and reinforcement plates can settle. This behavior can result in play between the components and can cause the creaking noise.

Remedial Action: In the event of a customer complaint, check all reinforcement plates for play in order to determine the exact source(s) of the noise.
All reinforcement plates, on which there is play, must be reworked using the lubricating grease "Carbaflo".
Note: Verify torque of all fasteners of the roof frame to the body.

Date of Introduction: Since July 23, 2018, the reinforcement plates have been pre-treated during production and there are no longer any unwanted noises.

Parts Info: **000.043.302.96** ⇒ Lubricating grease spray can (Carbaflo)

- Tools:
- Paintbrush for application
 - Suitable container

Work Procedure: 1 **Preliminary work:**

- 1.1 Move all seats down fully and to the rear.
- 1.2 Lower the headliner and set it down on the seats, see ⇒ *Workshop Manual '708419 Removing and installing headliner'*.



Information

Care must be taken when working around the headliner when it is in the lowered position. It can be creased easily.

2 **Find the exact source(s) of the noise:**

2.1 Check for play on all reinforcement plates by moving them vertically.

If there is play, the relevant reinforcement plates must be reworked.

3 **Rework front reinforcement plate (⇒ *Overview: Front reinforcement plates -1 and/or 2-*):**

3.1 Spray Carbaflo into a suitable container and have a application brush ready.

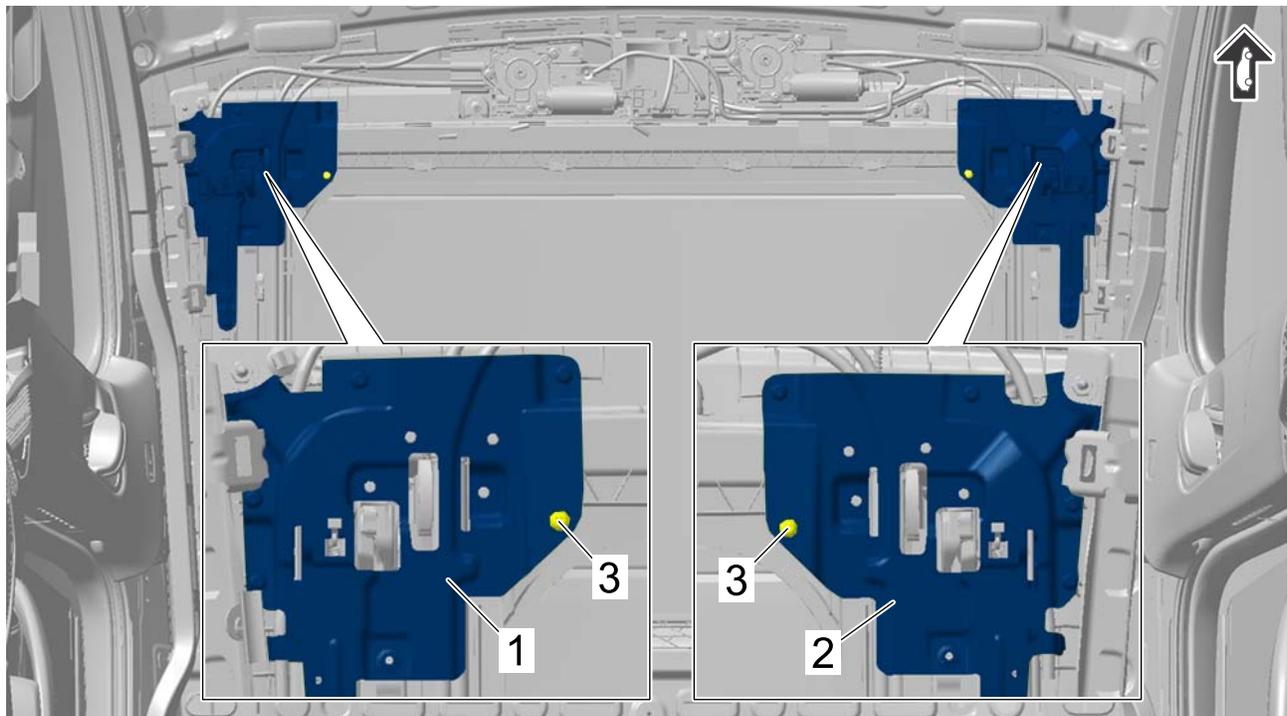
3.2 Unscrew the relevant screw (⇒ *Overview: Front reinforcement plates -3-*).

3.3 Lift the relevant reinforcement plate slightly. Using the brush, apply a thin film of Carbaflo around the loosened threaded joint between the body and reinforcement plate.

3.4 Re-fit the loosened screw and tighten to **Tightening torque 2.5 Nm (1.75 ftlb.)
+/-0.3 Nm (+/-0.2 ftlb.)** .

Warning: Low torque value, care must be taken not to over torque fasteners and strip threads.

3.5 Remove excess Carbaflo around the threaded joint using a clean cloth.



Overview: Front reinforcement plates

4 **Rework rear reinforcement plate (⇒ *Overview: Rear reinforcement plates -1 and/or 2-*):**

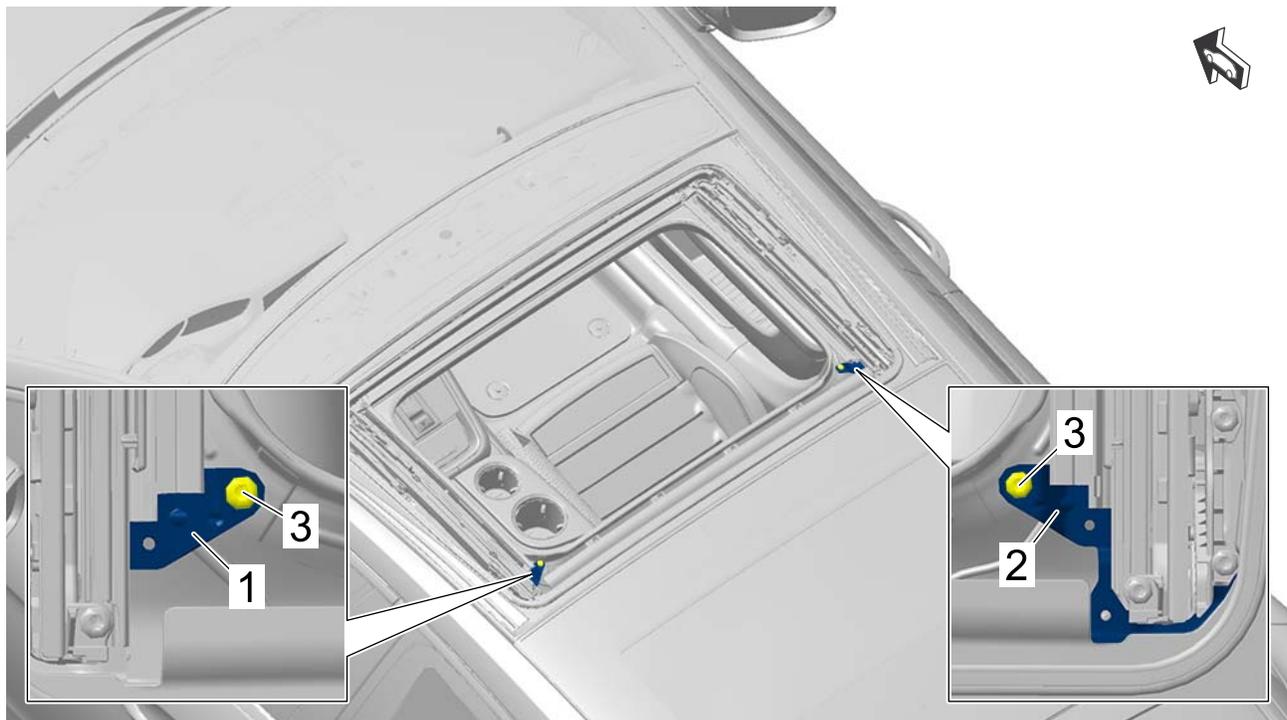
4.1 Remove front roof sun blind, see ⇒ *Workshop Manual '607019 Removing and installing front roof sun blind'*.

4.2 Spray Carbaflo into a suitable container and have brush ready.

- 4.3 Unscrew the relevant screw (⇒ *Overview: Rear reinforcement plates -3-*).
- 4.4 Lift the relevant reinforcement plate slightly. Using the brush, apply a thin film of Carbaflo around the loosened threaded joint between the body and reinforcement plate.
- 4.5 Re-fit the loosened screw with screw locking agent and tighten to **Tightening torque 4.5 Nm (3.25 ftlb.) +/-0.3 Nm (+/-0.2 ftlb.)** .

Warning: Low torque value, care must be taken not to over torque fasteners and strip threads.

- 4.6 Remove excess Carbaflo around the threaded joint using a clean cloth.
- 4.7 Install front roof sun blind, see ⇒ *Workshop Manual '607019 Removing and installing front roof sun blind'*.



Overview: Rear reinforcement plates

5 Subsequent work:

- 5.1 Secure the headliner, see ⇒ *Workshop Manual '708419 Removing and installing headliner - section on "Installing"*.
- 5.2 Move all seats back to their original position.

End of action required.

Invoicing: The work involved is invoiced under the labor operation:

APOS	Labor operation	I No.
60064901	Reworking front left reinforcement plate	
60064902	Reworking front right reinforcement plate	
60064903	Reworking rear left reinforcement plate	
60064904	Reworking rear right reinforcement plate	
60065001	Reworking front left and right reinforcement plate	
60065002	Reworking rear left and right reinforcement plate	
60065000	Reworking all front and rear reinforcement plates	

For invoicing and documentation using PQIS, enter the following coding:

Location (FES5)	60061	Roof assembly mounting
Damage type (SA4)	2000	Noises

References: ⇒ *Workshop Manual '708419 Removing and installing roof trim panel'*
 ⇒ *Workshop Manual '607019 Removing and installing front roof sun blind'*

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