

## Pop-up roof: Glass roof jams or cannot be opened, drive unit makes rattling noises

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|-------------------|--|
| Topic number      | LI77.21-P-063617   |
| Version           | 3  |
| Function group    | 77.21 Panoramic roof   |
| Date              | 07-19-2017   |
| Validity          | BR117 with code 413<br>BR156 with code 413<br>BR176 with code 413<br>BR205 with code 413<br>BR222 with code 413<br>Model series 253.9 with code 413<br>BR292 with code 413 |
| Reason for change | Amendment of AR document for model series 292<br>Validity limited to 253.9   |
| Reason for block  |  |

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### Complaint:

The glass roof of the pop-up roof is jammed or cannot be opened, or the drive unit of the glass roof makes rattling noises

### Cause:

Damage/degradation of the roof mechanism and/or the drive unit

### Remedy:

If one of the above complaints occurs, it is absolutely essential to replace the components listed below. Any damage or degradation of these components can cause new damage to the replacement parts of the panoramic roof during operation.

Components to be replaced:

- Roof mechanism on left and right [EPC item 160 (BR117, W176, C292), 310 (X156, BR222), 140 (BR205, X253)]
- Guide tube for drive cables of pop-up roof [EPC item 330 (BR117, W176, C292), 90 (X156), 210 (BR205, X253), 240 (BR222)]
- Check drive unit of glass roof [EPC item 70 (BR117, X156, W176, C292), 240 (BR205, X253), 110 (BR222)] and replace if necessary: The drive unit of the glass roof must be subjected to a visual inspection (after cleaning). If the drive pinion shows the slightest signs of wear on the teeth, then the drive unit must also be replaced.

If it is not possible to access the bolts at the front of the glass roof [EPC item 175 (BR117, W176, C292), 140 (X156, BR222), 270 (BR205, X253)], proceed as follows:

Unplug connectors of both drive motors, use a suitable tool to operate the emergency override of the drive unit (Figure 1, shown on the X253; on other models it may be necessary to lower the headliner) and open the glass roof far enough to allow access to the bolts of the glass roof. When doing this, have a second person push the glass roof upwards and backwards while supporting it at the front and rear.

| Attachments |             |
|-------------|-------------|
| File        | Description |

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# XENTRY TIPS

|                                |  |
|--------------------------------|--|
| Notbetätigung ASD-Glasdach.jpg | Emergency operation of pop-up glass roof at drive unit |
|--------------------------------|--|

| Symptoms   |
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| Body / Roof system / Tilting/sliding sunroof system / Does not close                     |
| Body / Roof system / Tilting/sliding sunroof system / Does not open                      |
| Body / Roof system / Tilting/sliding sunroof system / Stiff/sluggish                     |
| Body / Roof system / Tilting/sliding sunroof system / Does not go into tilt position     |
| Body / Roof system / Tilting/sliding sunroof system / Noise                              |
| Body / Roof system / Tilting/sliding sunroof system / Leaks                              |
| Body / Roof system / Tilting/sliding sunroof system / Wind noises                        |
| Body / Roof system / Tilting/sliding sunroof system / Rain closing feature nonfunctional |
| Body / Roof system / Panoramic sunroof / Deformed  |

| Control unit/fault code   |            |  |
|---|------------|--|
| Control unit  | Fault code | Fault text   |
| A98/1 - Control module 'Sliding roof' (SD) (SCU166) (GLE (292))                                       | 984971     | The actuator motor 'Roof system' has a malfunction. The actuator is blocked.   |
| A98/1 - Control module 'Sliding roof' (SD) (SCU205) (C (205))   | B184996    | The actuator motor 'Roof system' has a malfunction. There is an internal component fault.                            |
| A98/1 - Control module 'Sliding roof' (SD) (SCU205) (C (205))   | B184971    | The actuator motor 'Roof system' has a malfunction. The actuator is blocked.   |
| A98 - Control module 'Panoramic sliding roof' (PSD) (TSSR176) (GLA (156),A (176),GLE (292),CLA (117)) | B184954    | The actuator motor 'Roof system' has a malfunction. Calibration is missing.  |
| A98 - Control module 'Panoramic sliding roof' (PSD) (TSSR222) (S (222),C (205))                       | B184946    | The actuator motor 'Roof system' has a malfunction. There is an error in the calibration or parameterization memory. |
| A98 - Control module 'Panoramic sliding roof' (PSD) (TSSR222) (S (222),C (205))                       | B184954    | The actuator motor 'Roof system' has a malfunction. Calibration is missing.  |
| A98 - Control module 'Panoramic sliding roof' (PSD) (TSSR222) (S (222),C (205))                       | B184971    | The actuator motor 'Roof system' has a malfunction. The actuator is blocked.   |
| A98 - Control module 'Panoramic sliding roof' (PSD) (TSSR222) (S (222),C (205))                       | B184953    | The actuator motor 'Roof system' has a malfunction. The component is deactivated.                                    |
| A98 - Control module 'Panoramic sliding roof' (PSD) (TSSR222) (S (222),C (205))                       | B184951    | The actuator motor 'Roof system' has a malfunction. The component is not programmed.                                 |
| A98/1 - Control module 'Sliding roof' (SD) (SCU166) (GLE (292))                                       | 984951     | The actuator motor 'Roof system' has a malfunction. The component is not programmed.                                 |

# XENTRY TIPS

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|---|---------|--|
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## Operation numbers/damage codes

| Op. no. | Operation text | Time | Damage code | Note |
|---------|----------------|------|-------------|------|
|         |                |      | 78P08 GA    |      |
|         |                |      | 78B08 GA    |      |

## WIS-References

| Document number   | Title   | Note  | Allocation |
|-------------------|---|-------|------------|
| AR77.21-P-0430NKA | Remove/install panoramic roof drive unit guide rail |       | Remedy     |
| AR77.21-P-0430GQC | Remove/install panoramic roof drive unit guide rail | BR292 | Remedy     |

## Attachments

# XENTRY TIPS

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Notbetätigung ASD-Glasdach.jpg:

