

## Panoramic roof: Glass roof jams or cannot be opened, drive unit makes rattling noises

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Topic number	LI77.21-P-063617
Version	2
Design group	77.21 Panoramic roof
Date	04-12-2016
Validity	BR117 with code 413 BR156 with code 413 BR176 with code 413 BR205 with code 413 BR222 with code 413 BR253 with code 413 BR292 with code 413
Reason for change	Validity extended to model series 117, 156, 176, 222, 253, 292.
Reason for block	

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### Complaint:

The front glass roof of the panoramic 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 problems occur, it is necessary 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.

# XENTRY TIPS

Please see attachment for replacement part numbers

Attachments	
File	Description
Notbetätigung ASD-Glasdach.jpg	Emergency operation of pop-up glass roof at drive unit
Part number matrix.jpg	Part numbers

Symptoms
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 - 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) (TSSR176) (CLA (117),A (176),GLE (292),GLA (156))	B184971	The actuator motor 'Roof system' has a malfunction. The actuator is blocked.
A98/1 - Control module 'Sliding roof' (SD) (SCU166) (GLE (292))	984946	The actuator motor 'Roof system' has a malfunction. There is an error in the calibration or parameterization memory.
A98/1 - Control module 'Sliding roof' (SD) (SCU166) (GLE (292))	984951	The actuator motor 'Roof system' has a malfunction. The component is not programmed.
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))	B184946	The actuator motor 'Roof system' has a malfunction. There is an error in the calibration or parameterization memory.
A98/1 - Control module 'Sliding roof' (SD) (SCU205) (C (205))	B184951	The actuator motor 'Roof system' has a malfunction. The component is not programmed.
A98/1 - Control module 'Sliding roof' (SD) (SCU205) (C (205))	B184971	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 - Control module 'Panoramic sliding roof' (PSD) (TSSR222) (S (222),C (205))	B184953	The actuator motor 'Roof system' has a malfunction. The component is deactivated.

# XENTRY TIPS

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 - 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) (TSSR176) (CLA (117),A (176),GLE (292),GLA (156))	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) (TSSR176) (CLA (117),A (176),GLE (292),GLA (156))	B184951	The actuator motor 'Roof system' has a malfunction. The component is not programmed.
A98 - Control module 'Panoramic sliding roof' (PSD) (TSSR176) (CLA (117),A (176),GLE (292),GLA (156))	B184953	The actuator motor 'Roof system' has a malfunction. The component is deactivated.
A98 - Control module 'Panoramic sliding roof' (PSD) (TSSR176) (CLA (117),A (176),GLE (292),GLA (156))	B184954	The actuator motor 'Roof system' has a malfunction. Calibration is missing.

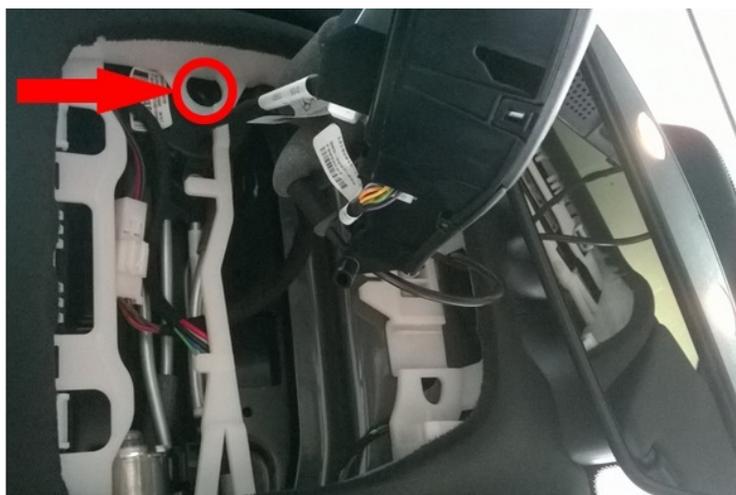
Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			78P08 GA	
			78B08 GA	

WIS-References			
Document number	Title	Note	Allocation
AR77.21-P-0430NKA	Remove/install panoramic roof drive unit guide rail	117, 156, 176, 205, 222, 253	Remedy
AR77.21-P-0430EW	Remove/install panoramic sunroof drive guide rail	292	Remedy

Attachments

# XENTRY TIPS

Notbetätigung ASD-Glasdach.jpg:



Part number matrix.jpg:

Part Number	Model					
	<u>117</u>	<u>156</u>	<u>205</u>	<u>222</u>	<u>253</u>	<u>292</u>
A 117 780 00 75 SLIDING ROOF MECHANICS	X					
A 117 780 01 75 SLIDING ROOF MECHANICS	X					
A 156 780 00 75 SLIDING ROOF MECHANICS		X				
A 156 780 01 75 SLIDING ROOF MECHANICS		X				
A 176 780 01 77 GUIDE TUBE	X					
A 176 900 69 02 CONTROL UNIT	X	X				X
A 176 906 46 00 GEARED MOTOR	X	X				
A 205 780 00 77 GUIDE TUBE		X	X		X	
A 205 780 01 75 SLIDING ROOF MECHANICS			X			
A 205 780 02 75 SLIDING ROOF MECHANICS			X			
A 205 780 09 00 SLIDING ROOF MECHANICS					X	
A 205 780 10 00 SLIDING ROOF MECHANICS					X	
A 205 900 91 04 CONTROL UNIT			X		X	
A 222 780 01 00 SLIDING ROOF MECHANICS				X		
A 222 780 02 00 SLIDING ROOF MECHANICS				X		
A 222 780 03 00 GUIDE TUBE				X		
A 222 900 47 05 CONTROL UNIT				X		
A 222 900 92 04 CONTROL UNIT				X		
A 292 780 06 00 SLIDING ROOF MECHANICS						X
A 292 780 07 00 SLIDING ROOF MECHANICS						X
A 292 780 08 00 GUIDE TUBE						X