

Panoramic Sliding Sunroof Inoperative in Automatic Mode Due to Loss of Normalization

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| Topic number | LI77.21-P-080504 |
| Version | 1 |
| Function group | 77.21 - Panoramic roof |
| Date | 4/23/26 |
| Validity | Model series S206 with SA code 413 (panoramic roof); model series S214 with SA code 413 (panoramic roof) |
| Reason for change | |

Complaint

The panoramic sliding sunroof operates in a stepped movement.

The panoramic roof becomes denormalized without an apparent reason (not directly after control unit replacement).

Automatic operation of the glass panel and roller sunblind is not possible; only tip-mode operation is available.

Cause

Resetting the panoramic roof control unit (PSD, A98, N70/1, TSSR223) can lead to loss of normalization.

The root cause for the control unit reset is currently under investigation.

Remedy

Contribution to cause analysis:

- Print the attached document "Panoramic Roof Customer Questionnaire."
- Complete the questionnaire together with the customer.
- Open a TIPS case and attach the completed questionnaire.
- Submit the TIPS case to the Body / Chassis / Entertainment inbox.

Repair:

Perform Initial Start-Up of the panoramic roof control unit (PSD, A98, N70/1, TSSR223).

| Attachments | |
|--|--|
| File | Description |
| Panoramic Roof Customer Questionnaire.docx | Please assist the client with completion of the diagnostic worksheet |

| WIS-References | | |
|-----------------|-------|------|
| Document number | Title | Note |

| | | |
|---------------------|--------------------------------------|---|
| AD00.00-P-2000-06FR | Connect/disconnect diagnostic device | - |
|---------------------|--------------------------------------|---|

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

| 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 |

| Control unit/fault code | |
|---|--|
| Control unit | Fault text |
| A98 / N70/1 - Control module 'Sliding roof' / Control module 'Panoramic sliding roof' (PSD) (TSSR223) | <p>B1E9157 - Roller sun blind 2 for the roof has a malfunction. Incorrect or incompatible software modules were detected.</p> <p>B1E9151 - Roller sun blind 2 for the roof has a malfunction. The component is not programmed.</p> <p>B1E9146 - Roller sun blind 2 for the roof has a malfunction. There is an error in the calibration or parameterization memory.</p> <p>B1E7551 - The roof roller sun blind has a malfunction. The component is not programmed.</p> <p>B184951 - The actuator motor 'Roof system' has a malfunction. The component is not programmed.</p> <p>B184946 - The actuator motor 'Roof system' has a malfunction. There is an error in the calibration or parameterization memory.</p> |

| Operation numbers/damage codes | | | | |
|--------------------------------|---|--------|-------------|---|
| Op. no. | Operation text | Time | Damage code | Note |
| 023952 | Operations: fill out analysis sheet for:..... .. | 2.0 AW | 8201DT8 | Fill out the "Panoramic Roof Customer Questionnaire" document together with the customer. |
| 540650 | Maintain on-board electrical system voltage (for testing and diagnostic work) | 1.0 AW | 8201DT8 | Work must only be invoiced once per workshop order. |

XENTRY Tips

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|--------|--|--------|---------|---|
| 540991 | Program and code control unit (maintain after quick test incl. on-board electrical system voltage) | 2.0 AW | 8201DT8 | |
| 541011 | Perform quick test | 3.0 AW | 8201DT8 | Work must only be invoiced once per workshop order. |
| 776901 | Standardize panoramic sliding sunroof and teach in automatic reversing function (after quick test) | 1.0 AW | 8201DT8 | |