

## Coupling of the rear axle differential has reached its wear limit

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|-------------------|--------------------------------------------------------------------------------------------------|
| Topic number      | LI35.31-P-077429                                                                                 |
| Version           | 2                                                                                                |
| Function group    | 35.31 - Rear axle center assembly                                                                |
| Date              | 7/9/24                                                                                           |
| Validity          | 118, 177, 247 with engine 260, 282, 654<br>with code M005 (Vehicles with 4MATIC/all-wheel drive) |
| Reason for change |                                                                                                  |

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### Complaint

Instrument cluster message "4MATIC inoperative".

The following fault code may be present in all-wheel drive control unit N15/17:

P147354 - Erroneous adaptation of the transfer case. The calibration is missing.

P14759A - The coupling of the transfer case has malfunctioned. The operating conditions for the component or the system have not been fulfilled.

### Cause

Coupling of the rear axle differential has reached the wear limit or a coupling defect is present.

### Remedy

Please read off the installed part number of the rear axle differential.

For model designations (flat model series and not AMG 35 variants) 118345; 118347; 118613; 118615; 118647; 177013; 177015; 177045; 177047; 177145; 177147; 177188; 177945; 247013; 247045; 247047, 247476 247747, 247646 247647 the following applies:

- If part number A2473502702 is not installed, the coupling package can be replaced. To this end, a repair kit has been added as a replacement part.
- If part number A2473502702 is installed, the installation of the coupling package repair kit is not permissible and the rear axle differential should be replaced.

For model designations (high model series and AMG 35 variants) 177151; 177051; 118351; 118651; 177951, 247751 247753, 274651 the following applies:

- If one of the part numbers A2473502702; A2473502503; A2473504504 has not been installed, the coupling package can be replaced. To this end, a repair kit has been added as a replacement part.

- If one of the part numbers A2473502702; A2473502503; A2473504504 has been installed, the installation of the coupling package repair kit is not permissible and the rear axle differential should be replaced.

If the removed friction plates show signs of a pad becoming detached, please contact product support.

For example pictures of the pad becoming detached at the friction plates, see the attachment.

| Attachments                                         |             |  |
|-----------------------------------------------------|-------------|--|
| File                                                | Description |  |
| <a href="#">Beispielbild Reibbelag Ablösung.pdf</a> |             |  |

| WIS-References    |                                                                |      |
|-------------------|----------------------------------------------------------------|------|
| Document number   | Title                                                          | Note |
| AR35.31-P-0002MFA | Remove/install multiplate clutch of the rear axle differential |      |

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                                                                    |  |  |  |  |  |  |
|-----------------------------------------------------------------------------|--|--|--|--|--|--|
| Power transmission > Transfer case > Function > Electrical fault/Fault code |  |  |  |  |  |  |

| Parts           |     |     |                               |          |      |     |
|-----------------|-----|-----|-------------------------------|----------|------|-----|
| Part number     | ES1 | ES2 | Designation                   | Quantity | Note | EPC |
| A 247 350 90 04 |     |     | MULTIPLATE CLUTCH RE-PAIR KIT |          |      | X   |

| Operation numbers/damage codes |                |      |             |      |
|--------------------------------|----------------|------|-------------|------|
| Op. no.                        | Operation text | Time | Damage code | Note |