

Coupling of the rear axle differential has reached its wear limit

Topic number	LI35.31-P-077429
Version	3
Function group	35.31 - Rear axle center assembly
Date	10/29/25
Validity	118, 177, 247 with engine 260, 282, 654 with code M005 (vehicles with 4-MATIC/all-wheel drive) Flat Model Series: 118345; 118347; 118613; 118615; 118647; 177013; 177015; 177045; 177047; 177145; 177147; 177188; 177945; 247013; 247045; 247047, 247476 247747, 247646 247647 High Model Series and AMG 35 variants: 177151; 177051; 118351; 118651; 177951, 247751 247753, 274651
Reason for change	Simplified new instruction/representation

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 issue is present.

Remedy

Please read off the part number of the rear axle differential installed on the vehicle and check the table below to determine if the differential can be repaired with a clutch repair kit. The table below is also in attachments.

(If needed, check validity for further clarification of model designations)

Vehicle Type	Part numbers that CANNOT be repaired with the Clutch Repair Kit	Part numbers that CAN be repaired with the Clutch Repair Kit
High Model Series and ALL AMG 35 Variants	A2473502702 A2473502503 A2473504504	A2473505104
Flat Model Series	A2473502702	A2473502503 A2473504504 A2473505104

If the removed friction plates show signs of a pad becoming detached, the complete rear axle differential will need to be replaced.

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

Attachments														
File	Description													
Beispielbild Reibbelag Ablösung.pdf	Friction plate delamination example													
Übersicht+Reparatur-Kit+Gültigkeit (1).png	Original Model Chart													
<table><tr><th>Fahrzeugtyp</th><th>Sachnummern, die den Kupplungsrep.satz NICHT verbaut werden darf</th><th>Sachnummern, die den Kupplungsrep.satz verbaut werden kann</th></tr><tr><td>AMG-Fahrzeuge (alle 35er)</td><td>A2473502702, A2473502503, A2473504504</td><td>A2473505104</td></tr><tr><td>Hohe MBC Fahrzeuge (X247 & H247)</td><td>A2473502702, A2473502503, A2473504504</td><td>A2473505104</td></tr><tr><td>Flache MBC Fahrzeuge (I77 & I18)</td><td>A2473502702</td><td>A2473502503, A2473504504, A2473505104</td></tr></table>	Fahrzeugtyp	Sachnummern, die den Kupplungsrep.satz NICHT verbaut werden darf	Sachnummern, die den Kupplungsrep.satz verbaut werden kann	AMG-Fahrzeuge (alle 35er)	A2473502702, A2473502503, A2473504504	A2473505104	Hohe MBC Fahrzeuge (X247 & H247)	A2473502702, A2473502503, A2473504504	A2473505104	Flache MBC Fahrzeuge (I77 & I18)	A2473502702	A2473502503, A2473504504, A2473505104		
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LI35.31-P-077429 v3 chart.jpg	Translated Model Chart (High model and AMG35 columns combined)													
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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

Control unit/fault code

Control unit	Fault text
N45 - All-wheel drive (AWD) (AWD_AMG)	P14759A - The clutch of the transfer case has a malfunction. The operating conditions for the component or the system are not satisfied. P147354 - The adaptation of the transfer case is faulty. Calibration is missing.
N15/17 - All-wheel drive (AWD) (AWD_MFA2)	P147354 - The adaptation of the transfer case is faulty. Calibration is missing.
N15/17 - All-wheel drive (AWD) (AWD_MFA2)	P14759A - The clutch of the transfer case has a malfunction. The operating conditions for the component or the system are not satisfied.

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
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