

Suspension fault P0A7F53 current and/or stored
due to deactivation of 48V battery - 223, 294

Topic number	LI54.10-P-079955
Version	1
Function group	54.10 - Battery, power supply, voltage converter
Date	10/27/25
Validity	223 294 AMG with eSuspension
Reason for change	

Complaint

Suspension fault message: "Drive max. 50 mph"
Fault code P0A7F53 - The aging limit of the high-voltage battery module has been reached.

Cause

Incorrect determination of the aging limit of the 48V battery due to a software error. If fault code P0A7F53 is set, the 48V battery irreversibly ceases to function, resulting in limited operation of the electric roll stabilization (eARS).

Remedy

Replacement of the 48V battery and flashing the current software for the control unit LIB48_177.

WIS-References		
Document number	Title	Note
AR54.10-P-0022SA	Remove/install the 48-V on-board electrical system battery	Model 223 with engine 177, with code B01 (48V technology) and code ME10 (hybrid vehicle (plug-in, PHEV))
AR54.10-P-0022WTC	Remove/install the 48-V on-board electrical system battery	Model 254 with code B01 (48V technology), except code ME10 (hybrid vehicle (plug-in, PHEV))
AR54.10-P-0022EQU	Remove/install the 48-V on-board electrical system battery	Model 294 with code 465 (Electric Active Roll Stabilization (EARS))

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
Chassis/suspension > Suspension/Dampening > Suspension System Function > Indicator lamp is on
Chassis/suspension > Suspension/Dampening > Roll control > Malfunction

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
541221	Remove/install the 48-V on-board electrical system battery	AW	0540HY9	