

BR 290 - Rear Spoiler Sporadically Inoperative With Fault Message In The Instrument Cluster

Topic number	LI77.25-P-073749
Version	6
Function group	77.25 - Wind deflector (spoiler)
Date	11/4/24
Validity	All X290 as of beginning of production without code U99/ U94
Reason for change	The software remedy that is referenced in "In progress" is already released. Loose screws can be reworked

Complaint

Rear spoiler sporadically remains in opened position or does not extend and a fault message appears in the instrument cluster.

The rear spoiler can then no longer be retracted manually using the button.

The function of the rear spoiler is re-established after an ignition reset and the fault message is no longer present in the instrument cluster.

Cause

Possible causes:

- Coding of the AMG DRIVE UNIT for recognition of Hall sensor when retracting rear spoiler.
- Hardware tolerances / hardware wear

Remedy

If new software for the AMG DRIVE UNIT is available, carry out the software update.

If the vehicle already has the most current version of the AMG DRIVE UNIT software installed, conduct SCN coding of the AMG DRIVE UNIT.

Software remedy:

Up to YoM 19/2

-> AMG Drive Unit N145/1 Software A001 902 6208

As of YoM 20/1 up to YoM 20/2

-> AMG Drive Unit N145/1 Software A001 902 6108

As of YoM 21/1

-> AMG Drive Unit N145/1 Software A001 902 6008

XENTRY Tips

Then check the currently learned actual values under the path "DRVU -> Actual values -> Rear wing sensor system":
Are the actual values all in the specified range (green):

--> Subject the vehicle to a final inspection/test drive and, if the findings report is OK, hand it over to the customer.

If the actual values are outside of the specified range (red) or final inspection is not OK:

--> Initialize the rear spoiler (if necessary up to 5x) until all values are in the target range (green).

If subsequently OK:

-> Subject the vehicle to a final inspection/test drive and, if the findings report is OK, hand it over to the customer.

If still not OK:

-> Check screw connection of rear spoiler adjuster (see attachment 1) for tight seating.

If screws loose:

-> Bond loose screw (see following steps and attachment 3 to 5).

1. Unscrew screw with Torx TX25 screwdriver from the housing guide.
2. Dip screw in Loctite 603 (at least 3 threads)
3. Screw the screw back into the housing guide with 2 Nm torque. (IMPORTANT: Loctite 603 finger-tight after 8 minutes and cured after 24 hours)
4. Initialize rear spoiler after the curing time.
5. Subject the vehicle to a final inspection/test drive and, if the findings report is OK, hand it over to the customer.

If screws tight:

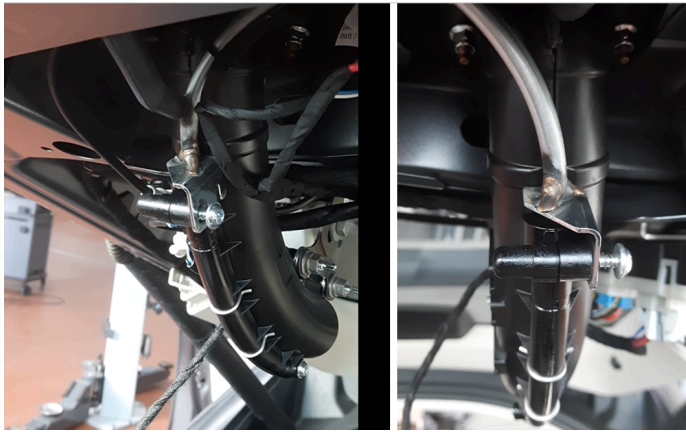
-> Create a TIPS case with the following information:

1. When exactly does the fault message appear (at which speed, when accelerating or braking, automatic mode, etc.)?
2. Is the problem sporadic or continuous?
3. Does the fault message disappear following an ignition reset/BUS idle and is the function of the rear spoiler then (momentarily) restored?
4. Is the fault reproducible and if so, how?

Attach the following files:

1. Quick test
2. Control unit log for AMG DRIVE UNIT + rear wing (DRVU + HFL)
3. IC event memory
4. Currently learned actual values prior to initialization
5. Currently learned actual values following initialization
6. Power consumption of rear spoiler (XENTRY: Configuration -> Coding -> Coding of power parameter)
7. Photo of the label on the rear spoiler drive (IMPORTANT: Production/manufacturing date of the rear spoiler must be easily readable, for an example see attachment 2)

Attachments	
File	Description
Schrauben_Aussteller.jpg	Attachment 1



label_production_date.JPG

Attachment 2

Photo of rear spoiler driver unit



1. Schraube herausschrauben.JPG

Attachment 3



2. Schraube in Loctite eintauchen.JPG

Attachment 4



3. Schraube mit Drehmoment 2 Nm wieder einschrauben.JPG

Attachment 5



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.

XENTRY Tips

Symptoms

Body > Body/Cab > Spoiler > Does not move in/out
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Control unit/fault code

Control unit	Fault text
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N145/1 - AMG DRIVE UNIT (AMG DRVU) (DRVU_NG)	-
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Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
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