

## AMG models with wet clutch 725.0 (NAG3 Classic) and M177 engine - Harsh shift concerns due to speed sensor installation

Topic number	LI27.60-P-080449
Version	1
Function group	27.60 - Gearshift, control
Date	4/14/26
Validity	Affects all 290 with M177 engine and transmission 725.096 (NAG3 Classic w/ wet clutch) produced as of July 1, 2025

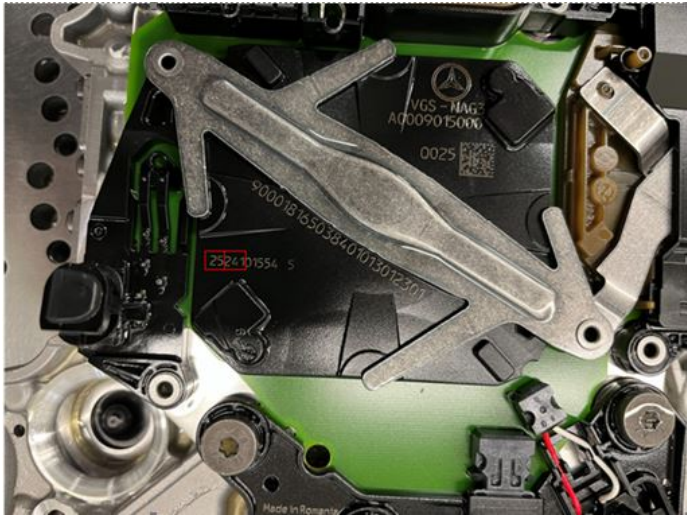
Older models with 725.066/96 (NAG3 Classic w/ wet clutch) transmissions were not affected in production, but may have received affected replacement parts (A725 270 53 09) during valve body replacement.

Reason for change

### Complaint

Harsh upshifts, downshifts, or jolting in lower gears when accelerating.

### Attachments

File	Description
Valve body - ECU serial number and date code.jpg	Figure 2
	
EEPROM txt file - ECU date code.png	Figure 1

```
BootSW.Patch : 0.0
CBOOT-SW : bm3a1301
ECU-SW : 1590D230003 1591P200003C9314201
SBOOT-SW : bh1a0501
SW-Hersteller.Boot : Bosch
SW-Hersteller.Code : MB
SW-Hersteller.Data : MB
Hardware.Jahr : 15
Hardware.Woche : 30
Hardware.Patch : 0.0
HardwareSupplier_Ident : Bosch
Hardware-Sachnummer : 0009015000
Software-Sachnummer : 0000000000
Software-Sachnummer.Code : 0019028009
Software-Sachnummer.Data : 0000000000
DMC_Prefix_D_PartNo : 1
DMC_D_PartNo : 0009015000
DMC_Module_Serial : 25198004105
DMC_ProdLineIndex : 5
DMC_RB_PlantIndex : 3
DMC_ModuleNo : 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
VIN_Original :
VIN_Current :
Eroten : G50049
CALID : 0019028009350002
ECU-Seriennr. : 25198004105 ← 25198004105 (ECU serial number)
ECU-Produktionsdatum.Jahr : 25 ← 07/17/2025 (ECU production date)
ECU-Produktionsdatum.Monat : 7
ECU-Produktionsdatum.Tag : 17
EHS-Nummer : 7232703305
Device_Mode : NORMAL
FBS4.Enabled : YES
FBS4.Initialized : NO
FBS4.Personalized : NO
FBS4.Activated : YES
FBS4.Completed : Not completed
FBS4.Testcounter : 0
Kilometerstand : 562.1 km
Ln 71, Col 36 45,797 characters Plain text 100% Windows (CRLF) UTF-8
```

## Cause

Incorrectly installed (rotated) rotational speed sensors on the EHS (VGS Control Unit) can cause abnormalities in signals. As a result, poor adaptation values are stored and harsh gearshifts are felt.

This only affects vehicles with VGS control units produced between days 182-296 of 2025 (July 4, 2025-October 23, 2025).

## Remedy

1. Collect initial transmission EEPROM file
  2. Check EEPROM .txt file for VGS control unit serial number and production date (attachment figure 1)
- If the valve body is already removed, you can inspect the control unit for its stamped serial number (attachment figure 2)

If the production date is or is within 25182-25296 (07/4/25-10/23/25):

The complete valve body will require replacement.

1. Remove transmission oil pan & inspect fluid/pan/filter condition
- compare findings to extended fluid condition examples provided in Xentry blue book under general information for VGS
2. Replace complete EHS valve body, fill to near max fluid level, & complete initial start-up
- Ensure all oil guide pipes are installed in the new valve body to prevent a new concern after replacement. (See photos in WIS instructions)

# XENTRY Tips

- Verify the new valve body production date is outside of day 182-296 of 2025 (attachment figure 2)

If the production date is outside of this range:

This LI is not applicable.

1. Perform IPR and follow recommended instruction

## 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 > Function > Jolting/shuddering during start-off
Power transmission > Automatic transmission > Function > Shifts
Power transmission > Automatic transmission > Function > Shuddering during start-off
Power transmission > Automatic transmission > Function > Shifting is rough
Power transmission > Automatic transmission > Function > Poor shift quality

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A725 270 53 09 28			CONTROLLER UNIT, ELECTROH	1	Verify the new valve body production date is outside of day 182-296 of 2025 (attachment figure 2)	X
A725 270 53 09 27			CONTROLLER UNIT, ELECTROH	1	Verify the new valve body production date is outside of day 182-296 of 2025 (attachment figure 2)	X

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