

223 with 725.1 with ISA2 and M176 Harsh 3to4 Upshift

Topic number	LI27.60-P-080169
Version	2
Function group	27.60 - Gearshift, control
Date	7/22/26
Validity	BR223 with M176 engine and 725.1 (NAG3 Mopf) transmission with ISA2
Reason for change	Software release CW24 for some models

Complaint

Complaints of a harsh 3to4 upshift

Cause

Lost torque adaptation values and negative fill times of clutch K27.

Remedy

Short-term measure:

Note:

All steps—including resetting the learned values and performing the stationary adaptation—must be completed to resolve the concern.

1. Perform IPR and follow the provided instructions.
2. Perform software update if available (IPR will automatically check for status of software availability)
3. Perform Special Function "Resetting of learned values 'Deceleration Mode'"
(VGS > Special Procedures > Special procedure > Resetting learned values Deceleration mode)
4. Complete the standstill adaptation

Long-term measure:

A software resolution has been released for several model years with software levels 22A.3 (n3g222aa03ub) and 22A.4 (n3g222aa04ub).

- Check VGS control unit log or eeprom .txt file for "Program Status" to determine your vehicle.

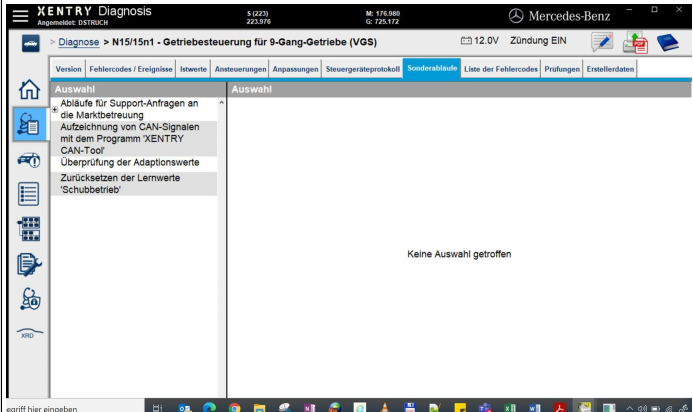
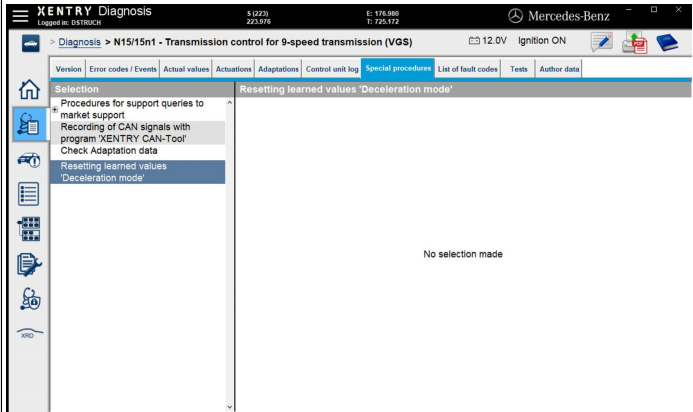
Software is in the approval process for MY23 with 22A.3. Once the software is released, an update on availability will be added in IPR and in this LI document.

As of 6/8, software released for the following model years:

- MY26 with 22A.4
- A001 902 25 21 >> A001 902 96 21
- MY24+MY25 with 22A.3
- A000 902 26 99 >> A001 902 97 21

If the vehicle software level is not 22A.3 or 22A.4:

A software resolution will not be created for these vehicles, please follow the short term solution to alleviate the concern.

Attachments	
File	Description
Sonderroutine Zurücksetzen der Lernwerte Schubetrieb.jpg	Special Routine 'Reset Overrun Mode Learned Values'
	
Special procedure-Resetting learned values Deceleration mode.jpg	Special Procedure 'Reset Overrun Mode Learned Values'
	
Verify SW Number.png	Checking software level

Control unit-specific data	
VGS Control Unit Log	
MB object number for hardware	0009011705
MB object number for software (code)	0009021188
Hardware version	1942 001
Software version	2242 000
Boot software version	1942 000
Fingerprint for software	1
Diagnosis identifier	000B1B
Control unit variant	VGS2NAG3M_VGS2NAG3M_App1_22B_0_000b1Bh
Name of communication data	VGS2NAG3M
Version of communication data	5.1.2
EHS part number	7252709917
Transmission variant	Default
Model of clutch	Torque converter
Adaptation values	PRESENT
Bootloader mode	N/A
Program status	n3g222ba02ub
EEPROM Txt file	
<pre>0x03 0x00 0x01 0x00 0x00 0x00 0x00 0x00 0x04 0x00 0x00 0x00 0x01 0x00 0x00 0x17 0x00 0x00 0xf5 0x11 0x00 0x06 0xc8 0x 0x00 0x00 0x00 0x00 VariantCodingHybrid : 0x75 0x00 0x00 0x00 0x04 0x07 0x00 0x02 0x02 0x00 0x00 0x01 0x01 0x01 0x00 0x04 0x00 0x00 0x03 0x00 0x01 0x00 0x00 0x00 0x00 0x08 0x04 0x00 0x00 0x00 0x01 0x00 0x00 0x17 0x00 0x00 0xf5 0x11 0x00 0x06 0xc8 0x 0x00 0x00 0x00 0x00 Diagnosis.crp(121) : VGS2NAG3M_VGS2NAG3M_App1_22B_0_000b1Bh Programstand : n3g222ba02ub Variantstand : _745x000001 Software.schiene : AT24 VariantenCoding : 0x75 0x00 0x00 0x00 0x04 0x07 0x00 0x02 0x02 0x00 0x00 0x01 0x01 0x00 0x01 0x04 0x00 0x00</pre>	

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 > Automatic transmission > Function > Shifts						
Power transmission > Automatic transmission > Function > Poor shift quality						
Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0019029621			22A.4 for MY26; AEJ 25/1 - old SW: A0019022521	1	Released	X
A0019029721			22A.3 for MY24 + MY25; AEJ 24/1 - old SW: A0009022699	1	Released	X
Control unit/fault code						
Control unit				Fault text		
N15/15 - Transmission control for 9-speed transmission (VGS) (VGS2NAG3M)				-		
Operation numbers/damage codes						
Op. no.	Operation text			Time	Damage code	Note
				H	27014	Transmission adaptation