

## Rumbling noises from area of front axle

Topic number	LI32.34-P-058735
Version	1
Design group	32.34 Roll control (WR)
Date	03-20-2014
Validity	MODEL 166 with AIRMATIC (code 489) and ACS (ACTIVE CURVE SYSTEM, code 468)
Reason for change	
Reason for block	

### Complaint:

Rumbling noises from the area of the front axle.

### Cause:

1. AIRMATIC software not up to date.
2. ACS software not up to date.
3. Play in the bearings or faulty threaded connections of link rods of stabilizer bar.
4. Cavitation erosion in active stabilizer bar on front axle. (Formation of vapor locks in the oil of the torsion bar, which can lead to noises)

### Remedy:

1. Check whether the software of the AIRMATIC is up to date and flash to the current version if necessary.
2. Check whether the software of the Active Curve System is up to date and flash to the current version if necessary.
3. Remove link rods of stabilizer bar and perform a test drive.  
If the noise no longer occurs, then the noise is being caused either by the link rods or by the active stabilizer bar.  
Replace link rods.  
Perform a test drive.
4. If the noise is still present, install AMG stabilizer bar.

Symptoms
Chassis/suspension / Chassis, noises / Cracking
Chassis/suspension / Chassis, noises / Knocking
Chassis/suspension / Chassis, noises / Thumping
Chassis/suspension / Suspension/Dampening / Suspension system noises / Whistling and hissing noises
Chassis/suspension / Suspension/Dampening / Suspension system noises / Thumping noise
Chassis/suspension / Suspension/Dampening / AIRMATIC / AIRMATIC noise / Whistling/hissing/flowing
Chassis/suspension / Suspension/Dampening / AIRMATIC / AIRMATIC noise / Thumping/rumbling
Chassis/suspension / Axle / Stabilizer bar / Stabilizer bar noise / Knocks
Chassis/suspension / Axle / Stabilizer bar / Stabilizer bar function / Worn out
Chassis/suspension / Chassis, noises / Howling
Chassis/suspension / Axle / Front axle / Front axle, noise / Knocking
Chassis/suspension / Axle / Front axle / Front axle, noise / Thumping

Chassis/suspension / Axle / Front axle / Front axle, noise / Cracking

### Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 166 320 07 89			Left torsion bar linkage	1		X	
A 166 320 08 89			Right torsion bar linkage	1		X	
A 166 320 34 11			Front stabilizer bar	1	AMG torsion bar as required	X	

### Work units

Op. no.	Operation text	Time	Damage code	Note
54-0991	CONTROL UNIT: ..... INSTALL SOFTWARE (AFTER QUICK TEST)		32564 90	As required for air suspension control unit
54-0991	CONTROL UNIT: ..... INSTALL SOFTWARE (AFTER QUICK TEST)		32564 90	As required for ACTIVE CURVE SYSTEM
32-3328	REPLACE LINK RODS (BOTH) FOR FRONT STABILIZER BAR		32211 36	As required
32-2050	REMOVE/INSTALL STABILIZER BAR OF 1ST VEH. AXLE, REPLACE IF NECESSARY		3210D 36	As required

### WIS-References

Document number	Title	Note	Allocation
AR32.22-P-0300GQ	Remove/install stabilizer bar on front axle		Remedy

### Validity

Vehicle	Engine	Transmission
166.003	*	*
166.004	*	*
166.023	*	*
166.024	*	*
166.055	*	*
166.056	*	*
166.057	*	*
166.058	*	*
166.062	*	*
166.073	*	*
166.074	*	*

GL (166)	*	*
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Full model designation breakdown		
Vehicle	Engine	Transmission
166.003	651.960	722.908
166.004	651.960	722.908
166.023	642.826	722.903
166.023	642.826	725.031
166.024	642.826	722.903
166.024	642.826	725.031
166.055	276.955	722.906
166.056	276.821	722.904
166.056	276.925	722.904
166.057	276.955	722.906
166.058	276.955	722.906
166.062	276.821	722.904
166.073	278.928	722.909
166.073	278.928	725.031
166.073	278.928	725.032
166.074	157.982	722.905
166.074	157.982	722.931
166.823	642.826	722.903
166.823	642.826	725.031
166.824	642.826	722.903
166.824	642.826	725.031
166.856	276.821	722.904
166.864	276.821	722.904
166.865	276.821	722.904
166.872	278.928	722.909
166.872	278.928	725.031
166.872	278.928	725.032
166.872	278.928	725.033
166.873	278.928	722.909
166.873	278.928	725.031
166.873	278.928	725.032
166.873	278.928	725.033
166.874	157.982	722.905
166.874	157.982	722.931