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RUMBLING NOISES FROM THE AREA OF THE FRONT AXLE

TECHNICAL SERVICE BULLETIN

Reference Number(s): LI32.22-P-058735 Version 6,Â Date of Issue:Â June 20, 2016

Mercedes-Benz:	MODEL 166 with steel suspension; MODEL 166 with AIRMATIC (code 489); MODEL 166 with AIRMATIC (code 489) and ACS (ACTIVE CURVE SYSTEM, code 468)
Design Group:	32.22 Air suspension
Reason For Change:	ops

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 insufficient tightening of threaded connections of link rods of stabilizer bar.
4. Cavitation in active stabilizer bar on front axle (air bubbles form in the oil in the torsion bar causing noises at the front axle).

REMEDY

Vehicles with steel suspension

1. Remove link rods of stabilizer bar and perform a test drive. If the noise no longer occurs, then the noise is being caused by the link rods. Replace link rods. Perform a test drive.
2. If the noise is still present, then the source of the noise must lie elsewhere and must be located using the Chassis Ear.

Vehicles with AIRMATIC and ACS (codes 489 and 468)

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 ACS 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 the valve element and the air filter for the torsion bar (pressure relief valve).
5. If the noise is still present, then the source of the noise must be located using the Chassis Ear.

Vehicles with AIRMATIC (code 489)

1. Check whether the software of the AIRMATIC is up to date and flash to the current version if necessary.
2. Remove link rods of stabilizer bar and perform a test drive. If the noise no longer occurs, then the noise is being caused by the link rods. Replace link rods. Perform a test drive.
3. If the noise is still present, then the source of the noise must be located using the Chassis Ear.

PARTS

PARTS

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 166 320 07 89	Â	Â	Left torsion bar linkage	1	Â	X
A 166 320 08 89	Â	Â	Right torsion bar linkage	1	Â	X
A 166 327 00 00	Â	Â	Valve element	1	Part of pressure relief valve	X
A 166 327 01 00	Â	Â	Front torsion bar air filter	1	Part of pressure relief valve	X

OPERATION NUMBERS/DAMAGE CODES

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Op. no.	Operation text	Time	Damage code	Note
54-0991	CONTROL UNIT: ..... INSTALL SOFTWARE (AFTER QUICK TEST)	Â	32564 90	As required for air suspension control unit
54-0991	CONTROL UNIT: ..... INSTALL SOFTWARE (AFTER QUICK TEST)	Â	32564 90	As required for ACTIVE CURVE SYSTEM
32-3328	REPLACE LINK RODS (BOTH) FOR FRONT STABILIZER BAR	Â	32211 36	As required
00-9151	DIAGNOSTIC TEST DRIVE. SEPARATE PUNCH IN/OUT MILES	Â	Â	Â

WIS-REFERENCES

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

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