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RUMBLING NOISES FROM AREA OF FRONT AXLE

TECHNICAL SERVICE BULLETIN

Reference Number(s): LI32.34-P-058735 Version 1,Â Date of Issue:Â March 20, 2014
MERCEDES- MODEL 166 with AIRMATIC (code 489) and ACS (ACTIVE CURVE
BENZ: SYSTEM, code 468)
DESIGN 32.34 Roll control (WR)
GROUP:

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

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

PARTS

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

WORK UNITS

WORK UNITS

| 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 |
| 32-2050 | REMOVE/INSTALL STABILIZER BAR OF 1ST VEH. AXLE, REPLACE IF NECESSARY | Â | 3210D 36 | As required |

WIS-REFERENCES

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

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Article GUID: B00607645