Noise from front axle damper

Topic number	LI32.25-P-070053
Version	2
Function group	32.25 Shock absorbers, damper struts, spring struts
Date	08-09-2019
Validity	A-Class model 177
Reason for change	Noises and remedy described in detail
Reason for block	

Complaint:

In the event of noises at the front axle, first check whether they are being caused by loose/stressed engine mounts.

Further noise sources:

1. Thumping noises during straightline driving over rough roads, only vehicles with standard suspension (SA code 677).

2. Cracking noises when steering while stationary or when driving slowly.

3. Squeaking noises when steering while stationary or when driving slowly.

Cause:

1. Initial stiffness of the end stop buffers, only vehicles with SA code 677 Standard suspension.

2. Plain bearings stiff.

3. Plain bearings blocked.

Remedy:

For cause 1. Install support bushing of front axle damper aluminum housing with new geometry (see attachment for comparison), only vehicles with standard suspension (SA code 677).

For cause 2. and 3. Replace plain bearings.

Symptoms
Chassis/suspension / Noises / Knocks
Chassis/suspension / Noises / Thumping
Chassis/suspension / Noises / Grunting
Chassis/suspension / Noises / Howling/whistling/squeaking
Chassis/suspension / Noises / Creaks

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 247 323 00 20			Upper left and right support bushing	2		X
A 218 321 00 83			Upper left and right plain bearing	2		X

Attachments

File	Description
Vergleich Kopflager ZGS 007-008.jpg	Comparison of old design ZGS007 - new design ZGS008

Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
32-2029	REPLACE HEAD BEARINGS (BOTH) FOR SUSPENSION STRUTS OF 1ST VEHICLE AXLE (SUSPENSION STRUT REMOVED)		32328 36	

WIS-References

Document number	Title	Note	Allocation
ar32.25-p-1018mfa	Disassemble/assemble suspension strut		Remedy
ar32.25-p-1017mfa	Remove/install front suspension strut		Remedy