

Thumping noises from rear axle shock absorber

Topic number	LI32.25-P-066246
Version	5
Function group	32.25 Shock absorbers, damper struts, spring struts
Date	04-05-2019
Validity	All models, model series 213, 205, 253 model series 257 with SA code 459/489 All models, model series 238
Reason for change	Diagnostic step added to identify potential root cause of complaint
Reason for block	

Complaint:

Thumping noise on rear axle shock absorber on rough road.

Cause:

Until now the rear axle shock absorber support bushing was only available together with the rear axle shock absorber as a replacement part.

In the future, the rear axle shock absorber support bushing will be available individually as a replacement part to avoid any unnecessary shock absorber noise.

Remedy:

For noise complaints on the rear axle shock absorbers, please use Chassis Ears to localize any sources of noise on shock absorbers or support bushings.

If the noise originates from the upper part of the shock absorbers, it is enough to replace the support bushings. Otherwise the complete shock absorber including support bushing have to be replaced.

The modified support bushings must be replaced in pairs the first time so that any mixed installation of old and new is reliably ruled out.

Note: When unscrewing the upper mounting nut on the piston rod, it is absolutely essential to use the special tools specified below.

Under no circumstances may a pneumatic/impact wrench be used for unscrewing the upper mounting nut on the piston rod, as the piston rod will turn too and thereby damage the sealing.

1. Remove the production nut with size 17--> Special tool W 164 589 00 10 00
2. Install the replacement nut with size 16--> Special tool W454 589 01 99 00 (only the long size 16 socket) + commercially available long size 5 Allen key

The tightening torque of the hexagon nut fastening the support bushing to the piston rod is 31 Nm +/- 3 Nm - The tightening torque has been increased from that stated in the repair instructions!

XENTRY TIPS

Symptoms
Chassis/suspension / Noises / Knocks
Chassis/suspension / Noises / Thumping
Chassis/suspension / Suspension/Dampening / Suspension system noises / Thumping
Chassis/suspension / Suspension/Dampening / AIRMATIC / Noises / Thumping/rumbling

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 213 326 48 00			Support bushing	2	Valid for model series 205, 213, 253 and model series 257 except 459/489. rear axle support bushings individually available	X
N 910118 010003			Hexagon nut	2	Hexagon nut, support bushing to piston rod - Tightening torque increased to 31 Nm +/- 3 Nm!!	X
A 238 326 04 00			Support bushing	2	Valid for model series 238 and model series 257 with special equipment 459/489 support bushings individually available	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
32-2042	REPLACE 2 ELASTOMER BEARINGS FOR 2 REAR SHOCK ABSORBERS (SHOCK ABSORBERS REMOVED)		32334 36	Replace on both sides at first replacement
32-1062	REMOVE/INSTALL 2 DAMPERS OF 2ND VEH. AXLE, REPLACE IF NECESSARY		32334 36	

WIS-References			
Document number	Title	Note	Allocation
AR32.25-P-0110LW	Remove/install rear shock absorber		Remedy