

Thumping Noises From Rear Axle Shock Absorber

Topic number	LI32.25-P-066246
Version	6
Function group	32.25 - Shock absorbers, damper struts, spring struts
Date	7/11/22
Validity	All models BR213, 205, 253, BR257 with SA code 459/489, all models BR238 only valid for vehicles produced prior to 01.01.2020
Reason for change	Note from PF Team China

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 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 problems on the rear axle shock absorbers, please always make a noise diagnosis, for example using Chassis Ear 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

XENTRY TIPS

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

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

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
A2133264800			Support bushing	2	Valid for BR205, 213, 253 and BR257 except 459/489 support bushing for rear axle available separately	X
N910118010003			Hexagon nut	2	Hexagon nut, support bushing to piston rod - Tightening torque increased to 31 Nm \pm 3 Nm!!	X
A2383260400			Support bushing	2	Valid for BR238 and BR257 with SA 459/489 support bushing available separately	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
322042	REPLACE 2 ELASTOMER BEARINGS FOR 2 REAR SHOCK ABSORBERS (SHOCK ABSORBERS REMOVED)		3233436	Replace on both sides at first replacement
321062	REMOVE/INSTALL 2 DAMPERS OF 2ND VEH. AXLE, REPLACE		3233436	