

Noise on rear axle when driving over rough surfaces and/or vehicle twisting

Topic number	LI32.20-P-063644
Version	3
Design group	32.20 Steel springs, torsion bars, Niveaumat
Date	05-17-2017
Validity	190.377 / 378 / 379 / 380 190.477 / 478
Reason for change	Current model designations extended
Reason for block	

Complaint:

Noise on rear axle when driving over rough surfaces and/or vehicle twisting

Cause:

Various causes

Remedy:

Check procedure:

Before a test drive mark the position of all transverse control arm bearings relative to transverse control arm (upper transverse control arm and lower control arm) using a touch-up paint pen (see Figure 1, Position A)

1. Unhook torsion bar
2. During a test drive check whether the noise is still present when the torsion bar link rods have been unhooked
 - a. If complaint no longer verifiable, carry out work procedure
 - b. If complaint remains verifiable, carry out test procedure, step 3
3. Check the previously made markings and take appropriate pictures
 - a. Create a PTSS case, include your results and a noise recording

Procedure:

Clean torsion bar, to do so perform following operation steps:

- Remove torsion bar (see WIS reference)
- Clean bearing shells (half shells) using brake cleaner (see Fig. 2)
- Clean the vulcanized rubber mounts using window cleaner (see Fig. 3)

Note:

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When cleaning rubber mounts, brake cleaner may NOT be used as this will harm the rubber.

- Grease bearing between bearing shells and rubber bushing (see Part information)
- Clean the torsion bar to lever arm meshing
- Mount torsion bar again and install remaining parts

Attachments	
File	Description
Abbildung_1.JPG	Figure 1: Mark the transverse control arm mountings relative to transverse control arm
Abbildung_2.JPG	Figure 2: Bearing shells on rear-axle torsion bar after cleaning
Abbildung_3.JPG	Figure 3: Rubber mounts on rear-axle torsion bar after cleaning

Symptoms
Chassis/suspension / Noises / Cracking
Chassis/suspension / Noises / Knocks
Chassis/suspension / Noises / Thumping
Chassis/suspension / Suspension/Dampening / Suspension system noises / Thumping
Chassis/suspension / Noises / Clattering
Chassis/suspension / Axle / Rear axle / Noises / Knocks
Chassis/suspension / Axle / Rear axle / Noises / Thumping
Chassis/suspension / Axle / Rear axle / Noises / Cracking
Chassis/suspension / Axle / Rear axle / Noises / Clattering

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 989 38 60			Lubricant	1	Sufficient several vehicles	X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			32226 36	Rear axle torsion bar mounts. Apply damage code, when noise with unhooked torsion bar no longer verifiable
			35252 36	Lower transverse control arm bearing on rear axle. Apply damage code, when lower transverse control arm responsible for noise
			35257 36	Upper transverse control arm bearing on rear axle. Apply damage code, when upper transverse control arm responsible for noise

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WIS-References

Document number	Title	Note	Allocation
AR32.20-P-0315RQ	Remove/install torsion bar on rear axle		Remedy

Attachments

Abbildung_1.JPG:

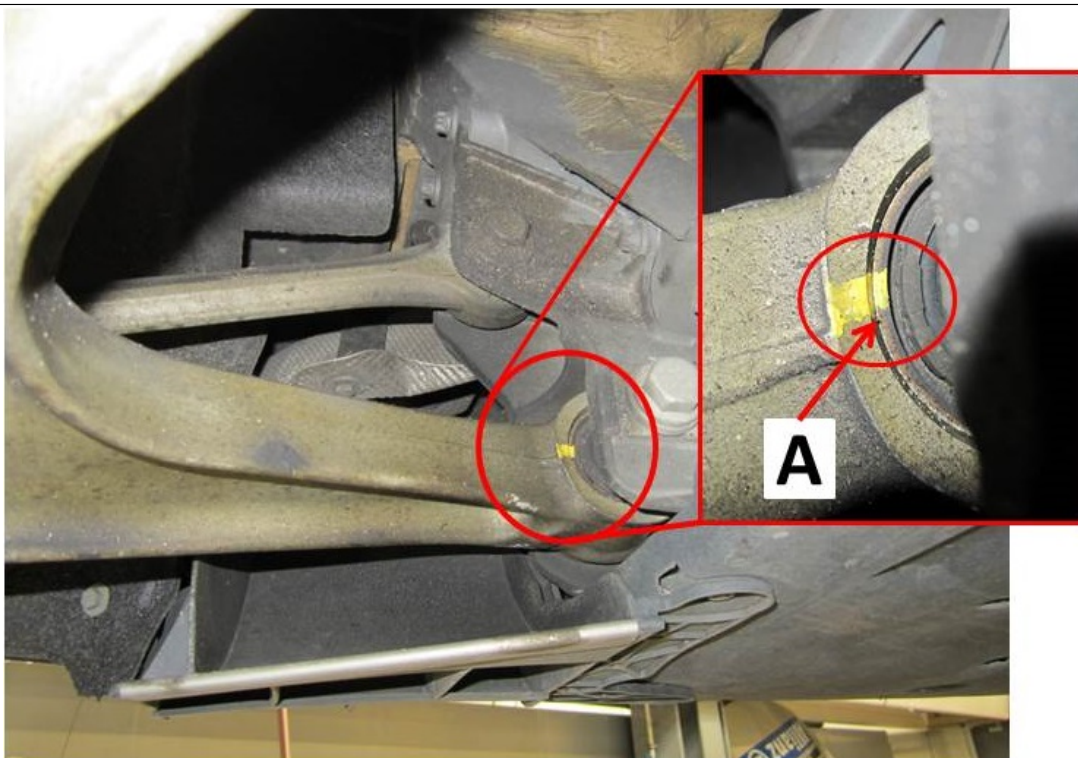


Abbildung_2.JPG:



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Abbildung_3.JPG:

