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XENTRY

Hard, metallic knock from area of wheel bearing on front axle when cornering slowly or while parking

Topic number	LI33.25-P-051401
Version	1
Design group	33.25 Axle housing, stub axle
Date	04-07-2011
Validity	Model 164 as of VIN 164 ###.#A 557 500
Reason for change	
Reason for block	

Complaint:

When negotiating a gentle corner at walking pace (5-8 km/h) or while parking/ maneuvering, a single, loud metallic knock is heard from the area of the wheel bearing on the front axle.

Attachments	
File	Designation
Anhang Tips.mp3	Noise

Cause:

Wheel bearing bore in steering knuckle not optimized, therefore insufficient press fit between wheel bearing outer race and steering knuckle.

Micro-movements result in the relevant noises.

Remedy:

Replace steering knuckle with wheel bearing.

Note:

Use the Chassis Ear to facilitate diagnosis and refer to the reference sound file (attachment TIPS.mp3) in the attachment.

Replacing the wheel bearing alone does not remedy the issue!

To date we are only aware of cases occurring on vehicles produced from October 2009 onwards.

Symptoms
Chassis/suspension / Cracking / Chassis, noises /
Chassis/suspension / Knocking / Chassis, noises /
Front axle, noise / Axles / Chassis/suspension / Front axle / Knocking /
Front axle, noise / Axles / Chassis/suspension / Front axle / Cracking /

Parts

XENTRY

Part number	xsl-Par-tEs1	xsl-Par-tEs2	Designation	Quantity	Note	EPC	Non-EPC
A 164 330 09 20			Steering knuckle W164/X164 left	1	AMG	X	
A 164 330 10 20			Steering knuckle W164/X164 right	1	AMG	X	
A 164 330 23 20			Steering knuckle 164.195/X164 left	1	Not for AMG	X	
A 164 330 24 20			Steering knuckle 164.195/X164 right	1	Not for AMG	X	
A 164 330 21 20			Steering knuckle W164 left	1	Not for AMG	X	
A 164 330 22 20			Steering knuckle W164 right	1	Not for AMG	X	

Work units				
Op. no.	Operation text	Time	Damage code	Note
			33224 36	

WIS-References			
Document number	Title	Note	Allocation
AR33.25-P-0400RT	Remove/install steering knuckle	251	Remedy
AR33.25-P-0400GZ	Remove/install steering knuckle	164	Remedy

Validity		
Vehicle	Engine	Transmission
GL (164)	*	*
M (164)	*	*