

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

Topic number	LI33.25-P-051401
Version	3
Design group	33.25 Axle housing, stub axle
Date	04-09-2013
Validity	Model 164 as of VIN 164 ### #A 557 500 Model 251 as of VIN 251 ### #A 104 835
Reason for change	Operation items adjusted
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 may not have sufficient press fit, therefore insufficient overlap between wheel bearing outer race and steering knuckle.

Micro-movements result in the relevant noises.

Remedy:

Replace steering knuckle with wheel bearing.

In the case of follow-up repairs (steering knuckle already replaced), only replace the wheel bearing and secure it using "Loctite 648"

Note:

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

Experience has shown that in many cases the noise is caused only by the steering knuckle on the left-hand side in the direction of travel.

For this reason repair the left-hand side first.

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

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

XENTRY

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 164 330 09 20	39		Steering knuckle W164/X164 left	1	AMG / Please order with Index 39!	X	
A 164 330 10 20	39		Steering knuckle W164/X164 right	1	AMG / Please order with Index 39!	X	
A 164 330 23 20	39		Steering knuckle X164 left	1	Not for AMG / Please order with Index 39!	X	
A 164 330 24 20	39		Steering knuckle X164 right	1	Not for AMG / Please order with Index 39!	X	
A 251 330 09 20	39		Steering knuckle 251 left	1	AMG / Please order with Index 39!	X	
A 251 330 10 20	39		Steering knuckle 251 right	1	AMG / Please order with Index 39!	X	
A 251 330 13 20	39		Steering knuckle 251 left	1	Not for AMG / Please order with Index 39!	X	
A 251 330 14 20	39		Steering knuckle 251 right	1	Not for AMG / Please order with Index 39!	X	
A 164 330 21 20	39		Steering knuckle W164 left	1	Not for AMG / Please order with Index 39!	X	
A 164 330 22 20	39		Steering knuckle W164 right	1	Not for AMG / Please order with Index 39!	X	
A 164 981 02 06			Wheel bearing	1	To be used for model designations 164128, 164177, 164195, 251077, 251177, 164822, 164823, 164824, 164825, 164828, 164871, 164886	X	
A 164 981 04 06			Wheel bearing	1	To be used for all model designations except 164128, 164177, 164195, 251077, 251177, 164822, 164823, 164824, 164825, 164828, 164871, 164886	X	

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
AR33.20-P-0315GZ	Remove/install front axle shaft flange and double-row angular ball bearing	Glue in bearing	Remedy

XENTRY

Validity		
Vehicle	Engine	Transmission
251.020	*	*
251.021	*	*
251.022	*	*
251.023	*	*
251.026	*	*
251.054	*	*
251.056	*	*
251.065	*	*
251.072	*	*
251.075	*	*
251.077	*	*
251.122	*	*
251.123	*	*
251.124	*	*
251.125	*	*
251.126	*	*
251.154	*	*
251.156	*	*
251.165	*	*
251.172	*	*
251.175	*	*
251.177	*	*
GL (164)	*	*
M (164)	*	*

Full model designation breakdown		
Vehicle	Engine	Transmission
164.120	642.940	722.902
164.121	642.820	722.902
164.122	642.940	722.902
164.124	642.820	722.902
164.125	642.820	722.902
164.128	629.912	722.903
164.156	272.967	722.906
164.172	273.963	722.904
164.175	113.964	722.901
164.177	156.980	722.907
164.182	272.945	722.999
164.186	272.967	722.906
164.195	272.973	722.550

XENTRY

164.822	642.940	722.902
164.823	642.822	722.903
164.824	642.820	722.902
164.825	642.820	722.902
164.828	629.912	722.903
164.871	273.923	722.904
164.886	273.963	722.904
251.020	642.950	722.902
251.021	642.872	722.903
251.022	642.950	722.902
251.023	642.872	722.903
251.026	642.950	722.902
251.054	272.945	722.999
251.056	272.967	722.906
251.065	272.967	722.906
251.072	273.963	722.904
251.075	113.971	722.901
251.077	156.980	722.907
251.122	642.950	722.902
251.123	642.872	722.903
251.124	642.870	722.902
251.125	642.870	722.902
251.126	642.950	722.902
251.154	272.945	722.999
251.156	272.967	722.906
251.165	272.967	722.906
251.172	273.963	722.904
251.175	113.971	722.901
251.177	156.980	722.907