

Creaking/crackling noises from area of front axle wheel bearing

Topic number	LI33.20-P-054920
Version	1
Design group	33.20 Wheel location, wheel hub
Date	10-16-2012
Validity	MODEL 166 up to vehicle ident number 166.### 1A 058017 MODEL 231
Reason for change	Operation numbers revised
Reason for block	

Complaint:

Creaking/crackling noises in the area of the wheel bearing on the front axle when cornering/ maneuvering.
It is essential to listen to the sound file "1.mp3".

Attachments	
File	Designation
1.mp3	Reference sound

Cause:

Relative movement between wheel bearing and steering knuckle.

Remedy:

1. Remove the affected wheel bearing.
2. Clean the contact surfaces of the wheel bearing and steering knuckle with brake cleaner (see areas marked blue in pictures "2.jpg" and "3.jpg").

Note: The face of the wheel bearing and the seals must not be allowed to come into contact with the cleaner otherwise the sealing rings will be damaged.

3. Clean threads of wheel bearing mounting.
4. Thinly coat the contact surfaces of the wheel bearing and steering knuckle with Molykote (annular joint grease) (see areas marked blue in pictures "2.jpg" and "3.jpg").
5. Reinstall the wheel bearing.

Note: It is not necessary to replace the wheel bearing.

Attachments	
File	Designation
2.jpg	Molykote on steering knuckle
3.jpg	Molykote on wheel bearing

Symptoms

Chassis/suspension / Chassis, noises / Cracking

Chassis/suspension / Chassis, noises / Creaking

XENTRY

Parts							
Part number	ES1	ES2	Designation	Quantity	Note	EPC	Other make part
A 001 989 03 51			Annular joint grease	1		X	
A 002 990 58 54			Nut	1	Validity for MODEL 166.00# / 02# /05# /07# /82# /87# (4MATIC), except MODEL 166.058 (ML 350)	X	
N 000000 006435			Hexalobular bolt	4	Validity for MODEL 166.00# / 02# /05# /07# /82# /87#	X	
A 220 421 01 71			Fitted bolt	1	Validity for MODEL 166.00# / 02# /05# /07# /82# /87#, MODEL 231.###	X	
A 019 990 56 01			Hexagon head bolt	2	Validity for MODEL 166.00# / 02# /05# /07# /82# /87#	X	
A 001 990 42 03			Bolt	4	Validity for MODEL 231.###	X	
A 019 990 79 01			Hexagon head bolt	2	Validity for MODEL 231.###	X	

WIS-References			
Document number	Title	Note	Allocation
AR33.20-P-0302GQ	Remove/install wheel bearing	Model series 166	Remedy
AR33.20-P-0302RK	Remove/install wheel bearing	Model series 231	Remedy

Validity		
Vehicle	Engine	Transmission
166.003	*	*
166.004	*	*
166.023	*	*
166.024	*	*
166.055	*	*
166.057	*	*
166.058	*	*
166.073	*	*
166.074	*	*
166.823	*	*
166.824	*	*
166.872	*	*
166.873	*	*

XENTRY

166.874	*	*
SL (231)	*	*