

Knocking Noise From Area Of Front Axle When Driving Over Thresholds Or Edges With Front Wheels Turned

Topic number	LI46.35-P-064639
Version	4
Function group	46.35 - Electrical steering
Date	5/25/21
Validity	MODEL 205 except 4MATIC (code M005) up to vehicle manufacturing date 30.05.2021 MODEL 213 except 4MATIC (code M005) up to vehicle manufacturing date 30.05.2021 MODEL 238 except 4MATIC (code M005) up to vehicle manufacturing date 30.05.2021 MODEL 257 except 4MATIC (code M005) up to vehicle manufacturing date 30.05.2021
Reason for change	Damage code revised

Complaint

A knocking noise can be heard at the left front when steering to the left and simultaneously driving over a threshold or edge (e.g. a curb).

See noise video in attachment.

The noise is reproducible with the steering wheel turned approx. 270° to 360° (steering not at full lock) to the left.

Attachments	
File	Description
knocking noise_left turn, model 205 4x2.mp3	Sound video

Cause

Relative movement of toothed rack in steering housing.

Remedy

Repeat the driving procedure with the steering turned to full lock to the left. The steering must be held firmly at the end stop.

If the noise can no longer be heard or if it is significantly quieter, the steering is the reason for the noise.

If the noise remains unchanged, it should be located in the components adjacent to the front axle. We recommend using Chassis Ears to locate the noise.

XENTRY TIPS

If the steering is found to be the cause, perform the repair procedure below:

Replace thrust piece on rack-and-pinion steering (AR46.20-P-0603LW)

Note: To do so, the new thrust piece repair kit must be ordered (see table of parts). This thrust piece is an aluminum thrust piece with two O-rings. As with the previous plastic thrust piece, this thrust piece must also be thoroughly greased all around when installing it. However, the thrust piece is more difficult to insert into the housing than the previous plastic thrust piece. It needs to be like this. Therefore proceed carefully during installation. Be Very careful not to damage the thrust piece when placing into the housing.

Attachments	
File	Description
001.pdf	Steering components (2 sides)

WIS-References		
Document number	Title	Note
AR46.20-P0603LW	Remove/install thrust piece on rack-and-pinion steering	Model 205, 213, 238, 257 except code M005 (4MATIC)

Symptoms
Chassis/suspension > Steering system > Noises > Cracking
Chassis/suspension > Steering system > Noises > Chattering/knocking
Chassis/suspension > Steering system > Noises > Clattering

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0029896451	11		Special grease	1	It is essential to use this special grease to carry out this repair method!	X
A2054603703			New thrust piece repair kit (aluminum thrust piece with two O-rings)	1	Repair kit includes: Thrust piece, thrust piece spring, thrust piece adjustment screw, rubber plug, large boot clamp	X
A2056281500			Steering gear mounting plate repair kit	1		X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
			46480GC	Please use this damage code