Rattling or Knocking Noise From Electric Steering When Driving On Rough Terrain Or Cobblestones

Topic number	LI46.35-P-068181
Version	3
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 rattling/knocking noise from the electric steering can be heard when driving on rough terrain or cobblestones.

The noise is primarily audible when driving slowly, from 10 - 25mph.

Attachments	
File	Description
steering noise 205 bad roads.mp4	Sound video

Cause

Relative movement of toothed rack in steering housing.

Remedy

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.

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

WIS-References

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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

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