

## Noises In The Steering Wheel Area When Steering

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Topic number	LI46.10-P-077313
Version	1
Function group	46.10 - Steering wheel, jacket tube, steering shaft, steering lock
Date	1/22/24
Validity	Vehicles as of production year 2019
Reason for change	

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### Complaint

The steering wheel generates grinding noises between the steering wheel and steering column switch module during steering maneuvers

See example file in the attachments area: Lenkrad-Schleifgeräusch\_SteeringWheel-GrindingNoises.mp4

### Cause

The plastic cover on the back of the steering wheel is not positioned correctly and may therefore rub against the steering column switch module

### Remedy

Please use the following noise files for the damaged part analysis:

1. Grinding noise | pot. cause: steering wheel | see attachment: Lenkrad-Schleifgeräusch\_SteeringWheel-GrindingNoises.mp4
2. Creaking/cracking noise | pot. cause: steering column switch module | see attachment: MRSM-Schleifgeräusch\_SCCM-GrindingNoises.MOV

If the noise is due to the steering column switch module, please use LI46.10-P-077314.

Check for grinding areas on the steering wheel:

Please check the covers on the rear for protrusion and, if necessary, remount.

1. Mask off openings on back of steering wheel with adhesive tape
1. Mark the back of the steering wheel with colored chalk (see Picture 1)
2. Mount steering wheel on steering column switch module and turn the steering wheel from left lock to right lock ten times.
3. The chalk will now have disappeared in the areas where there is rubbing (see Picture 2)

Warning: Ensure that no cables and visible areas of the steering wheel are damaged.

The abrasive excess material on the back of the steering wheel must be carefully removed with a Dremel tool.

Tip: You will need to remove approx. 0.1 mm to 0.3 mm of material (example: Picture 3)

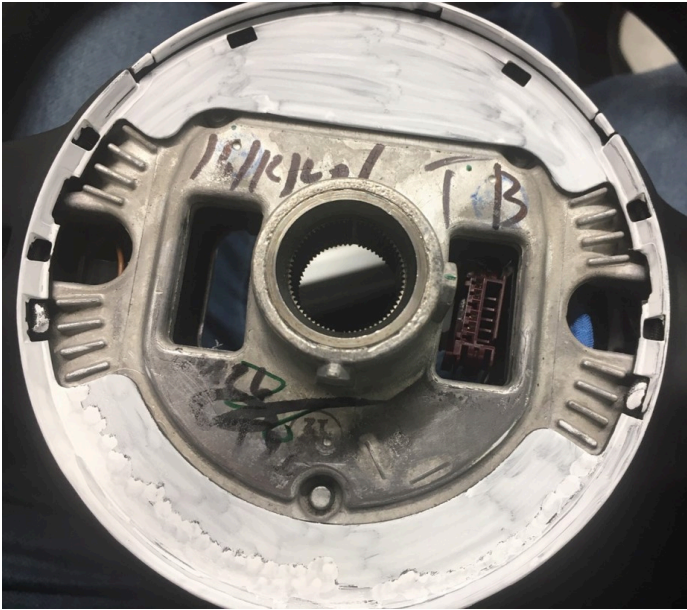
Make sure that none of the ground-off material gets into the steering wheel.

After removing the material, clean the entire back of the steering wheel with a 1% soap solution.

# XENTRY Tips

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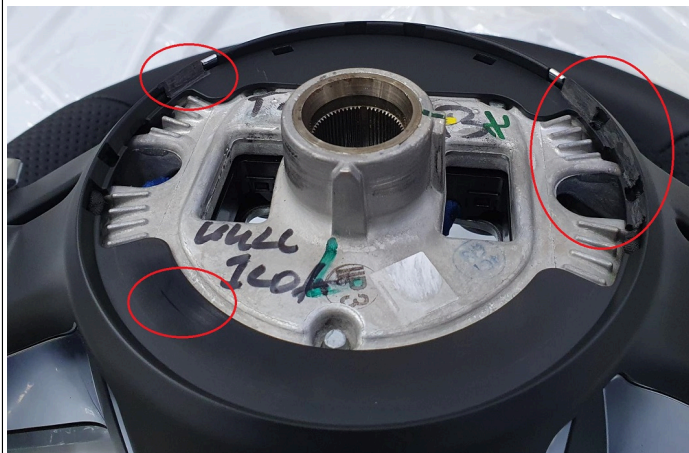
Do not blow off the steering wheel with compressed air.

Attachments	
File	Description
<a href="#">Lenkradrückseite Kreide.jpg</a> 	Picture1: Steering wheel with chalk applied
<a href="#">Lenkradrückseite Kreide geschliffen.jpg</a>	Picture2: Steering wheel with chalk rubbed off



Lenkrad abgeschliffen markiert.jpg

Picture3: Steering wheel with areas ground off



MRSM-Schleifgeräusch\_SCCM-GrindingNoises.MOV

Noises caused by the steering column switch module (MRSM/SCCM)

Lenkrad-Schleifgeräusch\_SteeringWheel-GrindingNoises.mp4

Noise caused by the steering wheel

Symptoms

# XENTRY Tips

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Chassis/suspension > Steering system > Noises > Dragging/squealing

Chassis/suspension > Steering system > Steering wheel > Vibrates

Chassis/suspension > Steering system > Steering wheel > Pulses

## Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note
		ZM	4624836	Steering wheel noise