

Uneven Steering Feel or Squeaking Noise from Steering Rack

Topic number	LI46.35-P-080591
Version	1
Function group	46.35 - Electrical steering
Date	5/18/26
Validity	Model 174, 178
Reason for change	

Complaint

- Uneven steering feel when steering left and right, especially when steering near the center position.
or
- Squeaking noise when steering quickly around the center position

Attachments	
File	Description
Beanstandung.mov	Squeaking noise complaint

Cause

Variation in the steering gear due to manufacturing tolerances.

Remedy

1. Check the vehicle's MB.OS software release with Xentry and update if necessary.
2. Connect Xentry, switch on the ignition (vehicle not roadworthy and power steering off), and raise the vehicle so that the wheels are not loaded.
3. Navigate to control unit N80, Steering Column Switch Module, actual values tab, and locate "Steering Angle".
4. Turn the steering wheel to full lock left until the mechanical end stop of the steering is reached. Record the steering wheel angle.
5. Perform a full lock to the right until the mechanical end stop is reached. Record the steering wheel angle.
6. Depending on whether the positive or negative value is greater, reposition the steering wheel by one tooth in the relevant direction (refer to AR46.10-P-0100CLA).

Positive value is greater => Shift steering wheel one tooth to the right (clockwise)

Negative value is greater => Shift steering wheel one tooth to the left (counterclockwise)

Example steering angle: 450° and -462° => Move the steering wheel one tooth to the left.

7. Perform a wheel alignment. Pay particular attention to adjusting the toe values accordingly.
8. Reset the straight-ahead learned value with XENTRY in the N68 electric power steering control unit.
9. Perform bus sleep (lock the vehicle, keep the key out of range, and leave it locked for at least 15 minutes).
10. Perform a test drive and re-assess.

XENTRY Tips

If, after the subsequent test drive, any of the previously mentioned problems persist, please create a TIPS case to the Body/Chassis/Entertainment team.

WIS-References		
Document number	Title	Note
AR46.10-P-0100CLA	Remove/install steering wheel	-
AR40.20-P-0200CLA	Perform wheel alignment check	-

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms
Chassis/suspension > Steering system > Noises > Dragging/squealing
Chassis/suspension > Steering system > Function > Support
Chassis/suspension > Steering system > Function > Pressure point
Chassis/suspension > Steering system > Steering wheel > Torsional vibrations at steering wheel

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A0009906239			Countersunk screw with internal hex; steering wheel screw; M16x26	1		X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note