

Noticeable Vibrations At The Steering Wheel

Topic number	LI46.35-P-073051
Version	5
Function group	46.35 - Electrical steering
Date	6/11/24
Validity	Model 253 Model 205 Model 213 Model 238 with code M005 from manufacturing date 01.03.2020 Model 257 with code M005 from manufacturing date 01.03.2020
Reason for change	Specify Xentry adaptations language.

Complaint

Noticeable vibrations at the steering wheel:

- At speeds between 40mph and 75mph
- On straight stretches of road and in long corners
- With driver assistance systems switched on

Cause

Control oscillations in the electric power steering.

Remedy

Perform software update of electric power steering (N68).

Note: Please ensure newest Xentry release software is installed and all addons are updated.

After the software update, teach in the steering limitations of the electric power steering again:

1. Start engine
2. Turn steering wheel all the way to the left and briefly hold at the steering limitation
3. Turn steering wheel all the way to the right and briefly hold at the steering limitation
4. Perform a test drive in which you drive at approx. 5-10 km/h in an "8" shape, alternately turning the steering wheel to the steering limitations on the left and right.

If vibrations can still be felt following the software update:

XENTRY Tips

1. Connect XENTRY and select control unit N68 - Electric power steering (ES)
2. Switch to the "Adaptations" menu item, then under the "Teach-in processes" item, run the "Special function" in full.
3. NOTE: Coding Parameter 'Shimmy' should be turned off and the actual value should read "Shimmy aus".

With this function, parameters of the software are adapted to reduce vibrations in the steering wheel.

If vibrations continue to occur in the steering wheel despite this action, please create a TIPS case.

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,

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Symptoms
Power transmission > Drive shaft > Propeller shaft > Function > Vibration/out-of-balance
Power transmission > Drive shaft > Axle shaft > Function > Vibration/out-of-balance
Chassis/suspension > Wheels/tires > Tire properties > Vibration/out-of-balance
Chassis/suspension > Steering system > Steering wheel > Vibrates
Chassis/suspension > Steering system > Steering wheel > Pulses

Operation numbers/damage codes

XENTRY Tips

Op. no.	Operation text	Time	Damage code	Note
			4649490	Electric rack-and-pinion steering control unit - Software release