

Crackling and cracking noises when cornering

Topic number	LI40.10-P-059248
Version	8
Function group	40.10 - Wheels, tires
Date	10/14/25
Validity	Model 167 Model 204.#77 with code 785 or 793 (AMG light-alloy wheel, cross-spoke design) Model 205 Model 217.#77/ #78/ #79/ #87/ #88 Model 222.#77/ #78/ #79/ #87/ #88 Model 223 Model 232 Model 253 Model 290 Model 297
Reason for change	Adding EQ validity

Complaint

Crackling and cracking noise from the outer wheel on the front axle when cornering

Attachments	
File	Description
Example Wheel Clicking.mov	

Cause

The noise is generated by a micromovement on the contact surface between the rim and the brake disk (wheel bolt group) and may be intensified by potential soiling. The more lightweight rim (AMG forged rim) transmits the noise louder; in the case of cast rims, the noise is generally not perceptible.

This is not a technical defect, but rather a complaint concerning comfort. Safe operation of the vehicle is ensured at all times.

Remedy

Important note:

XENTRY Tips

The operations described below do not represent a permanent remedy in every case. The noise may reoccur again after an indefinite period of time; sanding the rims with abrasive media multiple times is not permissible. Only cleaning using the Hazet tool 4960-160 (recommendation) can be performed without any concerns each time the wheel is changed or if the complaint reoccurs.

Replacing the parts (rim, wheel bolts, wheel bearings, wheel hub, brake disk) is not expedient in the event of this complaint.

Clean the components of the wheel bolt connection according to the WIS instructions

Sand down the rim and brake disk bowl by performing the following steps:

- Manually sand rim (old design only) in area of water drain bores (Figure 1; item A), approx. 1.5 cm left and right of water drain bore (Figure 2)

Note:

Use abrasive paper with grit size 80.

The grooving in this area should no longer be visible (sand down approx. 0.1-0.2mm)

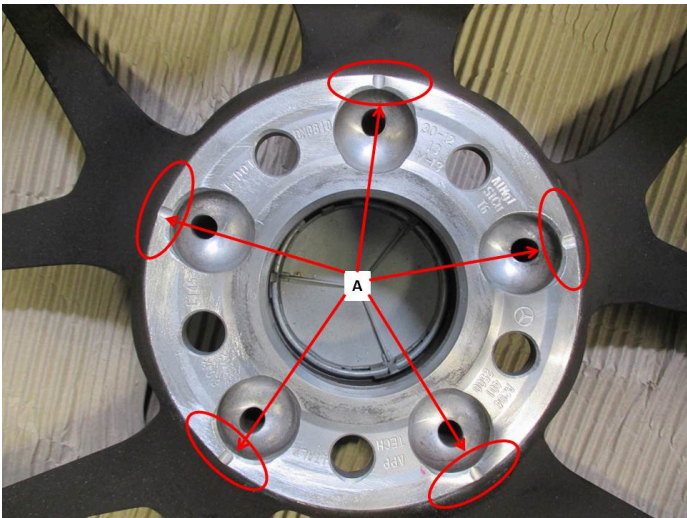
- Also sand brake disk bowl using emery cloth or abrasive paper with a grain size of 120
- For vehicles equipped with the AMG ceramic brake system (B07), abrasive paper may not be used for cleaning on the brake disk side

Note:

Do not use any cleaning agent when cleaning on the rim side. Cleaning using abrasive paper with a grain size of 80 will suffice.

Do not apply any grease, lubricant or paste after cleaning

The brake disk bowl should be "bare metal" in the area of the imprints made by the hole (Figure 3)

Attachments	
File	Description
Abbildung 1.jpg	Areas to be sanded
	
Abbildung 2.jpg	Detailed image of area to be sanded

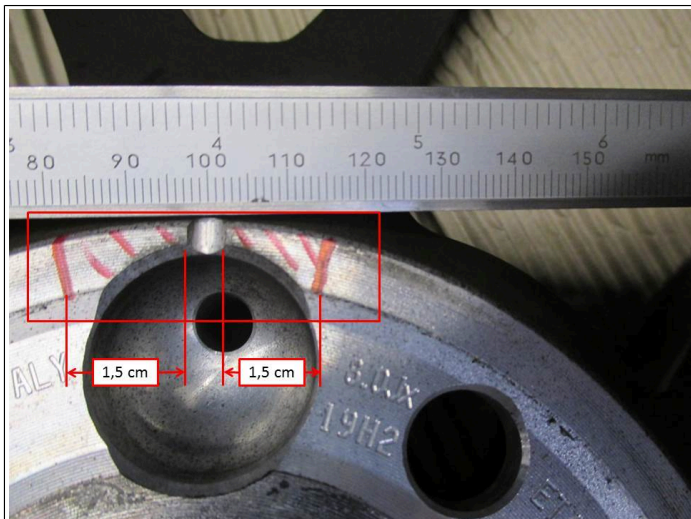


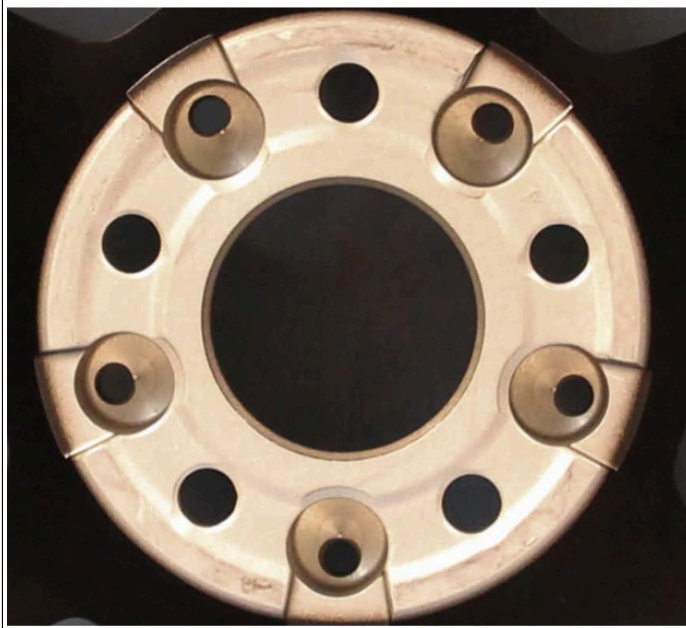
Abbildung 3.jpg

Brake disk after sanding



Felge neu .jpg

New version of rim (shown on rim X290)



WIS-References		
Document number	Title	Note
AP40.10-P-4050CW	Remove/install wheels	
SI00.00-P-0086A	Service Information: Guidelines for queries relating to technical complaints	
AR40.10-P-1100-02A	Clean components of the wheel bolt connection	Recommended tool Hazet 4960-160

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 > Noises > Cracking
Chassis/suspension > Noises > Clattering
Chassis/suspension > Wheels/tires > Tire noises > Rhythmic knocking
Chassis/suspension > Wheels/tires > Rim > Current problems
Chassis/suspension > Noises > Creaks
Operation numbers/damage codes

XENTRY Tips

Op. no.	Operation text	Time	Damage code	Note
			40017**	Please state "Noises" in the note text