



Brake noise on AMG vehicles

Topic number	LI42.10-P-063502
Version	16
Function group	42.10 - Service brake
Date	9/1/26
Validity	All AMG model designations with steel or ceramic brakes (code B07)
Reason for change	Remedy language update.

Complaint

Noises/ squealing from the service brake in various driving situations and ambient conditions.

WIS-References

Document number	Title	Note
SI 00.00-P-0086A	Guidelines for queries relating to technical complaints	Guidelines for queries relating to technical complaints

Cause

Frictional vibrations

Remedy

The intent of this document is to reduce noise from high performance AMG brakes.



AMG brakes are designed for performance under high load and in certain scenarios, can emit noise. Some scenarios are normal and some are induced by driving style like those listed below:

- Driving style such as two footed driving where the pad might be in constant contact with the rotor.
- Brake pressure and application style (stop-and-go traffic with consistent light brake pressure “riding brakes” where the brakes cannot cool sufficiently between applications). This can cause the brake pads to glaze and have a smooth/glassy surface which can induce noise.
- When ambient temperatures rise during summer peak and during cooling and cold winter months.

1. Beginning Diagnostics:

a) Check whether the complaint can be reproduced and at which axle or side the noises occur (ideally together with the customer while driving).

b) Check the affected system for component wear, mechanical damage or localized overheating damage. Replace damaged components as necessary.



c) Assess condition of brake rotors and pads per WIS and visually (i.e. long periods of stagnation, etc...).

d) Clean brake components free of brake dust and debris.

d) Secure vehicle on a lift.

1. Start the engine and depress the brake pedal 3-4 times.

2. Check each wheel to see if they turn freely by hand.

3. If a wheel is not turning freely by hand, this needs to be addressed prior to re-assessing the noise concern.

e) Check whether, apart from this document, an additional document exists for the specific model in question, and if so, work through it and then continue.

2. Specific Axle Work:



NOTE: If the brake pad has a metal backing plate, there is no need to affix the adhesive film. Continue with applying chamfer and Molykote as instructed below.

IMPORTANT: *Be absolutely certain to not allow paste between friction surfaces of the pad and disc!*

a) If the noises are coming from the front axle.

1. Remove brake linings of front axle.
2. Clean all contact points on brake lining backing plate, including the brake lining guide pins and brake caliper/carrier.
3. Clean bonding surface (where pistons contact back of brake pad). Apply adhesive film to the backplate of the piston-side brake lining where the piston contacts the pad backing plate. See picture "Adhesive and Paste Application Area".
4. Be sure to remove both brown paper backing sides of the adhesive film, it is double sided adhesive film.



5. If adhesive is already installed on backing plate where pistons contact the back of the pad, you may gently scrape off and re-apply a new adhesive or Molykote. **Must not apply the Molykote on top of the adhesive.**
6. Chamfer edges (gently round off sharp leading edges) on brake pads. Some pads have vertical grooves, these can be gently chamfered with a triangular file as well. See picture "Chamfering Technique".
7. Apply Molykote to the sides of the backing plate. See picture "Adhesive and Paste Application Area".
8. After installing the brake linings, actuate the brake for 30 seconds.

b) If the noises are coming from the rear axle.

1. Remove brake pads of rear axle.
2. Clean all contact points on brake lining backing plate and brake caliper /carrier.
3. Clean bonding surface (where pistons contact back of brake pad). Apply adhesive film to the backplate of the piston-side brake lining.



4. Chamfer edges (round off sharp leading edges) on brake pads. See picture "Chamfering Technique".
5. Grease contact points (red areas on attachment "Rear Pad Grease Area") between brake lining and guide of brake caliper with Molykote.

3. Brake Bedding Process:

- a) Before trip, the mileage incurred must be clarified with the customer (approx. 30 miles).
- b) Select a suitable route so speeds of approximately 65 MPH can be achieved.
- c) If the vehicle is an AMG P3 Hybrid, switch off recuperation prior to bedding in brakes.
- d) Brake the vehicle 5 times with a brake pressure of approx. 30 bar (have the passenger read it out using XENTRY) from 62 MPH to 30 MPH (no emergency stops and no braking in the ESP control range). Maintain a cooling distance of approx. 1 mile between brake applications.
- e) Finally drive approx. 3 miles to allow the system to cool.



f) Reassess noise.

Attachments

File	Description
Rear Pad Grease Area.png	Rear Pad Grease Area
Chamfering Technique.png	Chamfering Technique
Adhesive and Paste Application Area.jpg	Adhesive and Paste Application Area

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 > Brake system > Service brake > Noises > General

Chassis/suspension > Brake system > Service brake > Noises > Squeals

Chassis/suspension > Brake system > Service brake > Noises > Whirring/howling

Chassis/suspension > Brake system > Service brake > Noises > Makes noise

Parts

Part number	ES1	ES2	Designation	Quantity	Note	EPC
3M F9469PC			Alternate Adhesive Transfer Tape	1	Sourced Locally	
A 001 989 87 51 09			Molykote	<1		
A 190 423 32 00			Adhesive Transfer Tape	1	Modify to fit. May use alternate.	