

177 118 247 AMG 45 Models - Noises from the rear axle differential, particularly when cornering slowly

Topic number	LI35.31-P-074854
Version	3
Function group	35.31 - Rear axle center assembly
Date	1/22/26
Validity	AMG-specific rear axle differential on AMG 45 model series 177; 118; 247
Reason for change	Remedy added

Complaint

Noises from the rear axle differential, particularly when cornering slowly

Cause

Small quantity of water entering into oil of multiplate clutches at right and left

Remedy

Follow below steps to install vent hose A 177 350 02 03:

(See attachment section for installation instructions with reference photos if needed)

1. Raise the vehicle with the vehicle lift
2. Detach the old breathers (2x) from the clutch housing right and left using a suitable tool (Figure 1)
3. Support rear axle differential
4. Remove the rear screw from the rear axle differential on the rear axle carrier (Figure 2)
Note: pay attention to the position of the adjustment disc and mark it!
5. Lower rear axle differential
6. Clean the upper bore (Figure 6) on the left side of the rear axle carrier
7. Place the new vent hose with the Y-vent connector from right to left in front of the right rear axle shaft over the rear axle differential (Figure 3)
8. Slide the angle connectors onto the vent connections onto the rear axle differential on the left (Figure 4) and right (Figure 5)
9. Install the vent connection of the new line on the left side into the upper bore (Figure 6) of the rear axle carrier (Figure 7)
10. Attach the fastening clip (pre-assembled on the new bleed line) to the rear axle differential housing. (Figure 8)
11. Lift the rear axle differential and install the screw from the rear axle carrier (M14 torque 150 Nm)
Note: pay attention to the position of the adjustment disc!

Once new vent hose is installed:

1. Carry out oil change of clutch oil on left and right sides (Shell TF0870B).
- **DO NOT** change the gear set oil (at center), since this is a long-life oil that is not related to the cause

Return the vehicle to the customer and inform them that they must drive a distance of at least 250 km (155mi); The complaint should no longer occur.

Attachments	
File	Description
Bild 1.jpg 	Figure 1 Old breathers
Bild 2.jpg	Figure 2 Rear axle differential screw



Bild 3.jpg

Figure 3 Position of new vent hose



Bild 4.jpg

Figure 4 Vent connection left



Bild 5.jpg

Figure 5 Vent connection right



Bild 6.jpg

Figure 6 Upper bore in rear axle carrier



Bild 7.jpg

Figure 7 Vent connection installed in rear axle carrier

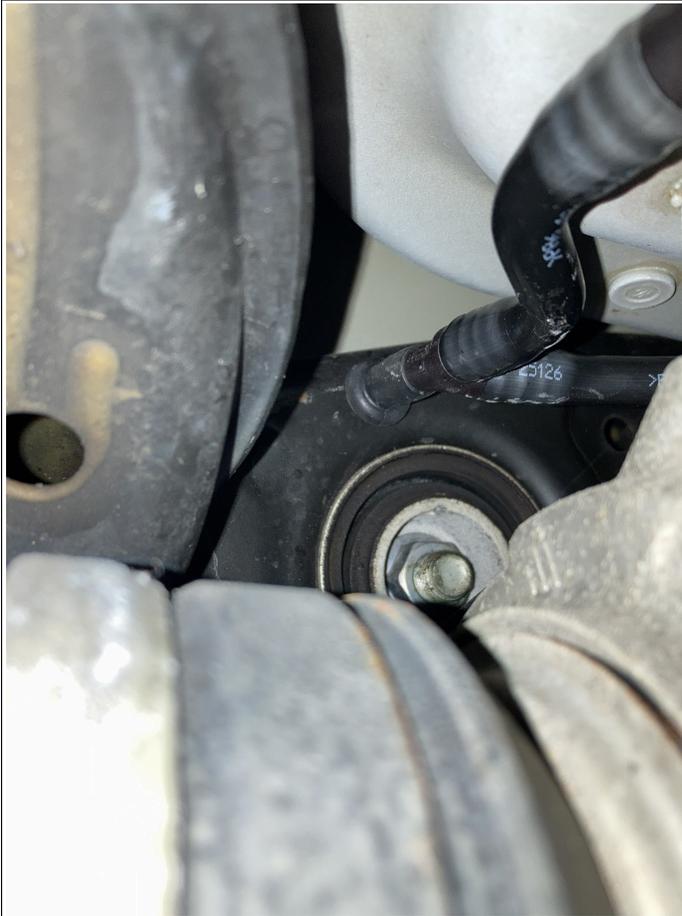


Figure 8.png

Figure 8 Placement of fastening clip on rear axle differential housing

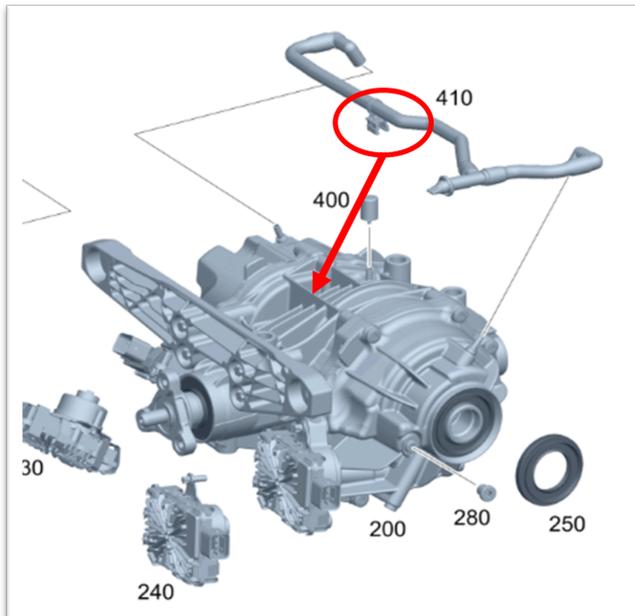


Figure 8

Installation of Vent Hose A 177 350 02 03.pdf

Vent hose installation instructions pdf

XENTRY Tips

WIS-References		
Document number	Title	Note
AP35.00-P-3501E	Rear axle oil change	Only the clutch oil at the right and left needs to be changed, not the gear set oil

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
Power transmission > Noises > Howling/whistling
Power transmission > Differential > Rear axle differential > Noises > Howling
Power transmission > Differential > Rear axle differential > Noises > Whistles
Power transmission > Noises > Humming/droning

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 989 4406 11 CDNW			Clutch oil (Shell TF0870B)	1	Sufficient for right and left side	X
A177 350 0203			Vent hose	1		X

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
001227	Perform oil change in rear axle differential		3570001	Perform oil change at both clutches