

Model 907 with all-wheel drive (A4M) – All-wheel drive inoperative

Topic number	LI33.30-N-080795
Version	1
Function group	33.30 - Final drive, differential, drive shaft
Date	7/17/26
Validity	Model 907 with A4M special equipment – All-Wheel Drive Torque on Demand
Reason for change	ECU and FC added

Complaint

The customer may report one or more of the following:

- All-wheel drive is unavailable or inoperative.
- Rear wheel slip during acceleration on low-traction surfaces.
- Noise from the front axle area while driving.
- Message in the instrument cluster indicating all-wheel drive is unavailable due to overheating.
- Fault code P27874B - The temperature of the clutch is too high. There is a fault due to overtemperature may be stored in control unit N15 (Transfer Case).

Cause

An internal failure of the front axle differential may result in loss of torque transfer to the front wheels. In some cases, a fracture of the weld between the crown gear and differential housing may be present. (figure 1)

Attachments	
File	Description
Bild1.png 	Figure 1

Remedy

Replace the front axle differential in accordance with:

AR33.30-D-0525TSY – Replace Front Axle Differential.

WIS-References		
Document number	Title	Note
AR33.30-D-0525TSY	Change out the front axle differential	Model 907 A4M (4MATIC) except ZG1 except ZG3

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 > Differential > Front axle differential > Noises > Cracking
Power transmission > Differential > Front axle differential > Function > No power flow
Power transmission > Differential > Front axle differential > Noises > Chattering
Power transmission > Differential > Front axle differential > Noises > Tapping
Power transmission > Differential > Front axle differential > Function > Malfunction, differential lock

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A9073307900			FRONT AXLE DIFFERENTIAL	1		X
A9073308100			FRONT AXLE DIFFERENTIAL	1		X

Control unit/fault code	
Control unit	Fault text
N15 - Transfer case (VG) (TC167)	P27874B - The temperature of the clutch is too high. There is a fault due to overtemperature.

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
		H	33401F4	Front axle differential: no frictional connection