

Brake squeal on front axle

Topic number	LI42.10-P-063978
Version	12
Function group	42.10 Service brake
Date	04-13-2018
Validity	Model designation 253 With code 494 (USA) Without code P31(AMG Sport Package)
Reason for change	Change to Remedy
Reason for block	

Complaint:

Brake squeal at the front axle.

Note:

This condition may possibly only occur when the brakes are operated for the first time and typically when reversing at low speeds.

Cause:

Noises due to the effects of friction.

Remedy:

Replacement of the brake pads.

1. If only the first visit to the workshop with confirmed brake squeal at the front axle, replace pads with A000 420 8100 and apply brake paste as per attached guide titled "Brake Paste Matrix Front Axle 253"
 - Where conditions allow, perform bed-in procedure:
 - Brake 10 times from 60 mph to 30 mph with normal braking (not full brake application) every 1.0 mile.
 - After this, brake 3 times from 60 mph to 30 mph with normal braking (not full brake application) every 2.0 miles.
2. For a repeat visit with confirmed brake squeal at the front axle, replace pads with BQ 4 42 9000 as per attached instructions "Front Axle 253 instructions - pads with additional mass"
3. For vehicles produced as of end of August 2017 that are equipped with pads with additional mass from the factory with confirmed brake squeal at the front axle, replace pads with BQ 4 42 9000 only.

Note: BQ 4 42 9000 part number is only available in very limited quantities and must not be used for normal routine brake maintenance. Only VOR orders for the BQ part number will be allowed, a unique VIN will be required for each order and demand will be closely monitored. MBUSA is counting on your collaboration to ensure BQ 4 42 9000 parts availability for customer complaints.

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

XENTRY TIPS

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A 000 420 81 00	64		Brake pad	1	Without SA code P31 (AMG Sport Package) with SA code 494 (US version).	X
A 001 989 87 51			Brake paste	1		X
BQ4429000			Brake pad	1	Without SA code P31 (AMG Sport Package) with SA code 494 (US version).	

Attachments	
File	Description
Brake Paste Matrix Front Axle 253.pdf	Brake Paste Matrix Front Axle 253
AR42.10-P-0162-01LWO Apply brake paste to brake linings.pdf	Apply brake paste to brake linings
Front Axle 253 instructions- pads with additional mass.pdf	Front Axle 253 instructions- pads with additional mass

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
40-1590	REMOVE/INSTALL 2 COMPLETE WHEELS		42114 36	
42-2694	REMOVE/INSTALL 4 BRAKE LININGS OF FRONT AXLE, REPLACE IF NECESSARY(WHEELS REMOVED) W/ FIXED CALIPER		42114 36	
00-9151	PERFORM TEST DRIVE	ZM	42114 36	Time to Bed-In brake pads. Not to exceed 0.8 hrs. Separate time punch with in/out miles