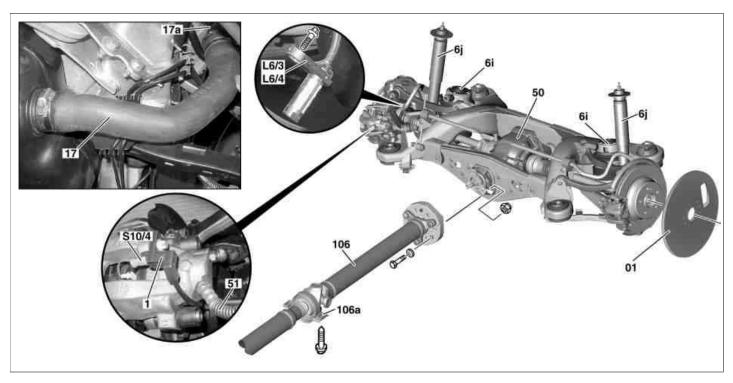
MODEL 219.3



P35.10-2169-09

Shown on model 219 with AIRmatic

01	Guard plate	17a	Filler neck	L6/3	Left rear rpm sensor
1	Electrical feed line	50	Rear axle center assembly	L6/4	right rear rpm sensor
6i	Air suspensions	51	Brake hose	S10/4	Right rear brake pad contact
6j	Shock absorber	106	Propeller shaft		sensor
17	Filler hose	106a	Propeller shaft intermediate bearing		

Modification notes

19.6.08 Value changed: Union nut, brake line to brake hose	*BA42.10-P-10)01-04I
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XX	Remove/install		
	Risk of injury caused by body parts being jammed or crushed. Risk of injury to skin and eyes caused by brake fluid spraying out at high pressure when working on the SBC brake system	Deactivate SBC brake system using STAR DIAGNOSIS.	AS42.46-Z-0001-01A
(1)	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
(1) Installation	Caution, important note: The threads in the frame floor assembly must be recut and blown out, as any adhesive residue in a thread will prevent the bolt's necessary preload force from being achieved, despite having reached the specified torque and specified angle of rotation If this is not observed, then the faulty bolt preload force will cause bending forces to act on the bolt, which could ultimately lead to bolt fracture.		
(9)	While working on the rear axle, care must be taken to ensure that the surface of aluminum components do not get any scratches, cracks and notches. Otherwise the service life of the parts will be affected		
i	Only tighten nuts and bolts of chassis components when vehicle is in a ready-to-drive condition.		

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1	Deactivate SBC brake system using STAR DIAGNOSIS.	Vehicles with Sensotronic Brake Control (SBC)	
		i The following steps should be run through	
		in STAR DIAGNOSIS: Select the menu item "SBC-Sensotronic Brake	
		Control"/"Initial startup after repair"/"Deactivate	
		'SBC' system". Then process all the individual	
I'œA D	Connect STAR DIACNOSIS and road out foult	steps from top to bottom.	AD00 00 D 2000 04A
F A D	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04A
2	Empty air springs (6i) completely using STAR	Vehicles with AIRmatic (semi-active air	AR32.22-P-1500-04TX
	DIAGNOSIS Notes on AIRmatic	suspension), code 489	AH32.22-P-1000-02T
⊯ AD	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04A
		(i) Installation: Observe the filling process of the air springs (6i) otherwise they will be destroyed.	AR32.22-P-1500-03TX
		Nm	*BA32.25-P-1006-04K
		Nm	*BA32.25-P-1007-04K
		<u> </u>	*211589000900
		Electronic inclinometer	
		gotis://F 40.2 02.0	
3	Secure vehicle on the lifting platform		AR00.60-P-0100TX
4.1	Remove exhaust system at flange connection	Model 219.354 /356 /357 /372	AR49.10-P-7280TX
4.2	Remove rear muffler	Model 219.375 /376/ 377 Type 219.322	AR49.10-P-7280TY AR49.10-P-4951TQ
5	Remove rear section components on	Type 219.322	AR61.30-P-1001TX
	underfloor paneling		ARO1.50-1 - 100 1 1 X
6	Detach propeller shaft (106) from rear axle differential (50)	i The flexible coupling remains on the propeller shaft (106).	
		i Installation: Attach propeller shaft to rear axle differential (50).	AR41.10-P-0050-04TX
		Nm	*BA41.10-P-1002-01E
7	Remove fitting sleeves of flexible coupling from		AR41.10-P-0050-09TX
₩₩F	rear axle center assembly (50) on the flange Drift for loosening fitting sleeves in flexible		WF58.50-P-4110-01A
has AA I	coupling.		W1 00.00-1 -4110-01A
8	Remove bolts from propeller shaft intermediate bearing (106a) and remove rear part of propeller shaft (106)	installation: Assemble propeller shaft (106) in correct order. Only tighten the bolts of the propeller shaft center support bearing (106a) after fastening the flexible coupling on	AR41.10-P-0050-05TX
		the rear axle differential (50).	
		Nm	*BA41.40-P-1001-01B
⊯ BB	Long-life grease (NLGI grade 2)		BB00.40-P-0266-02A
9	Unhook brake cables from automatic slack adjuster of parking brake		AR42.20-P-0525TX
10	Remove rear wheels		
₽ AP	Remove/install wheels, rotate if necessary		AP40.10-P-4050TX
11.1	Remove left and right rear brake calipers	For repair work on fuel tank or rear axle.	AR42.10-P-0080TX
	Risk of poisoning caused by swallowing brake fluid. Risk of injury caused by brake fluid coming into contact with skin and eyes.	Only pour brake fluid into suitable and appropriately marked containers. Wear protective clothing and eye protection when handling brake fluid.	AS42.50-Z-0001-01A
11.2	Detach left and right rear brake hose (51) from the brake lines	For bodywork or replacement of rear axle assembly.	AR42.10-P-0013TX
		Installation: The brake hoses (51) must not be twisted after tightening otherwise they may tear. Seal off line connections immediately with plugs. The brake fluid expansion reservoir must not be allowed to run completely empty. When loosening or tightening the brake line on the brake hose (51), take care not to twist its	
		bracket. Counterhold open wrench on two flats	
		of brake hose (51) using an open-end wrench.	*BA42.10-P-1001-04I
		8	
		<u> </u>	*000589750300

		8	*129589009100
12	Remove fender liners from rear fenders	Vehicles with AIRmatic (semi-active air suspension), code 489	AR88.10-P-1400TX
13	Disconnect electrical connectors of brake and chassis components at the rear axle	Vehicles with AIRmatic (semi-active air suspension), code 489	AR32.22-P-1500-01TX
14	Remove left rear rpm sensor (L6/3) and right rear rpm sensor (L6/4) from the wheel carriers	Vehicles without AIRmatic i Unclip electric feed lines of rpm sensor from all retaining clamps and tie up rpm sensor to one side.	*BA42.30-P-1001-02A
15	Disconnect electrical connector from right rear brake pad contact sensor (S10/4)	Vehicles without AIRmatic	
16	Detach electrical feed line (1) from right rear brake pad contact sensor (S10/4)	Vehicles without AIRmatic i Unclip electrical feed line from retaining clamps and tie up to one side.	*BA42.10-P-1002-12B
17.1	Pry left and right air spring (6i) off the frame floor using assembly lever	Vehicles with AIRmatic (semi-active air suspension), code 489 i In doing so the retaining clips for the air springs (6i) are destroyed. i Installation: Slide on the air springs (6i), until the new clips can be heard engaging into the frame floor. The air springs (6i) must be aligned straight and must not be kinked.	B/42.101 1002 125
17.2	Remove left and right rear springs	Vehicles without AIRmatic	AR32.20-P-0230TX
18	Detach left and right shock absorbers (6j) from spring control arms	Vehicles with AIRmatic (semi-active air suspension), code 489	*BA32.25-P-1002-03I
19	Drain fuel tank.	Vehicles with diesel engine Vehicles with gasoline engine	AR47.10-P-4001TQ AR47.10-P-4001TX
20	Remove filler hose (17) of fuel tank	Check filler hose (17) and clamps for damage.	
21	Install guard plates (01) to protect brake disk cover panels	y .	AR42.00-P-0100-01TX
		3	*220589013100
22	Lower rear axle.	Do not damage filler hose (17). Kink filler hose (17) downwards when lowering the rear axle.	AR35.10-P-0020-01TX
		Installation: Recut and blow out the threads in the frame floor assembly to ensure a perfect threaded connection. I Use new bolts.	*BA35.10-P-1001-01J *BA35.10-P-1002-01J
23	Replace retaining clips of air springs (6i)	Vehicles with AIRmatic (semi-active air suspension), code 489	AR32.22-P-1500-02TX
4	Checking		
24	Check rear axle for damage, replace damaged parts		
25	Check condition of air springs (6i)	Vehicles with AIRmatic (semi-active air suspension), code 489	AR32.22-P-1500-05TX
26	Install in the reverse order		
27	Check oil level in rear axle center assembly (50) and correct if necessary	i Mixing of old universal hypoid gear oil and the new FE hypoid gear oil should be avoided due to the better fuel economy.	AR35.31-P-0520-03TX
		Nm	*BA35.31-P-1002-02D
			*BF35.31-P-1003-01P
			*BF35.31-P-1004-01P
			*BF35.31-P-1005-01P
		Cleaning spray, Loctite 7063 (150ml) Sealant, Omnifit 100H (50 g)	*BR00.45-Z-1046-04A *BR00.45-Z-1061-01A
28.1	Bleed brake system with STAR DIAGNOSIS	Vehicles with Sensotronic Brake Control (SBC)	AR42.10-P-0012TX

		i The following steps should be run through in STAR DIAGNOSIS: Select menu item "initial startup after repair"/ "after opening or exchanging one or more brake hoses". Then process all the individual steps from top to bottom. i When performing the bleeding operation always observe the instructions in the document "Bleeding brake system using STAR DIAGNOSIS".		
28.2	Bleed brake system	Vehicles with Adaptive Brake (ABR)	AR42.10-P-0010T	٦
29	Perform a wheel alignment check		AR40.20-P-0200TX	٦

Nm Rear axle rpm sensor

Number	Designation	Model 219
BA42.30-P-1001-02A	Self-locking bolt of rear axle rpm sensor to wheel Nm carrier	8

Nm Propeller shaft

Number	Designation			Model 219
BA41.10-P-1002-01E	Self-locking nut, flexible coupling to rear propeller shaft or rear axle differential.	M12	Nm	60

Nm Propeller shaft intermediate bearing

Number	Designation		Model 219
BA41.40-P-1001-01B	Bolt, propeller shaft intermediate bearing to frame floor assembly	Self-tapping screw Nm	25

Nm Brake lines, brake hoses

Number	Designation		Model 219 with SBC	Model 219 with ABR
BA42.10-P-1001-04I	Union nut, brake line to brake hose	Nm	18	18

Nm Rear axle brake caliper

Number	Designation	Model 219
BA42.10-P-1002-12B	Bolt, brake pad contact sensor to brake Nm caliper	8

Nm Rear axle carrier

Number	Designation		Model 219
BA35.10-P-1001-01J	Self-locking bolt, front rear axle carrier rubber mount to frame floor	Stage 1 Nm	90
		Stage 2 ∠°	60
BA35.10-P-1002-01J	Self-locking bolt, rear axle carrier rear rubber mount to frame floor	Stage 1 Nm	90
		Stage 2 🔏 🌣	60

Nm Rear axle shock absorber

Number	Designation			Model 219 AlRmatic
BA32.25-P-1002-03I	Self-locking nut for attaching shock absorber to spring control arm	M10	Nm	55

$\overline{^{ m Nm}}$ Rear axle center assembly housing

Number	Designation	Model 219
BA35.31-P-1002-02D	Oil filler screw, rear axle differential Nm	50

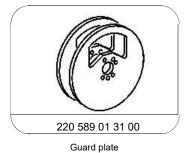
Nm Suspension struts

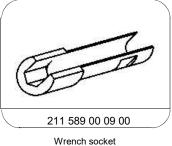
Number	Designation		Model 219 with AIRmatic
BA32.25-P-1006-04K	Nut, rear air spring at spring control arm	Nm	150

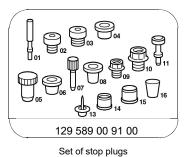
BA32.25-P-1007-04K	Air suspension pressure line at rear axle distributor	Nm	5
1			

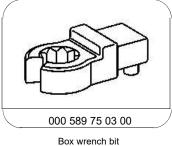
Rear axle differential

Number	Designation			Model 219 except 219.376/377	Model 219.376/377
BF35.31-P-1003-01P	Filling capacity	Rear differential assembly dia. 215 mm	iters	1.2	1.2
		Specifications for Operating Fluids Si	heet	BB00.40-P-0235-07 A	BB00.40-P-0235-61 A
BF35.31-P-1004-01P	Filling capacity	Rear axle differential dia. 198 mm	iters	1.1	-
		Specifications for Operating Fluids Si	heet	BB00.40-P-0235-07 A	-
BF35.31-P-1005-01P	Filling capacity	Rear axle center assembly dia. 200 mm	iters	1.1	-
		Specifications for Operating Fluids	heet	BB00.40-P-0235-07 A	-









Repair materials

Number	Designation	Order number
BR00.45-Z-1061-01A	Sealant, Omnifit 100H (50 g)	A 002 989 23 71
BR00.45-Z-1046-04A	Cleaning spray, Loctite 7063 (150ml)	A 001 986 71 71 10