

**Document title** Lower rear axle.

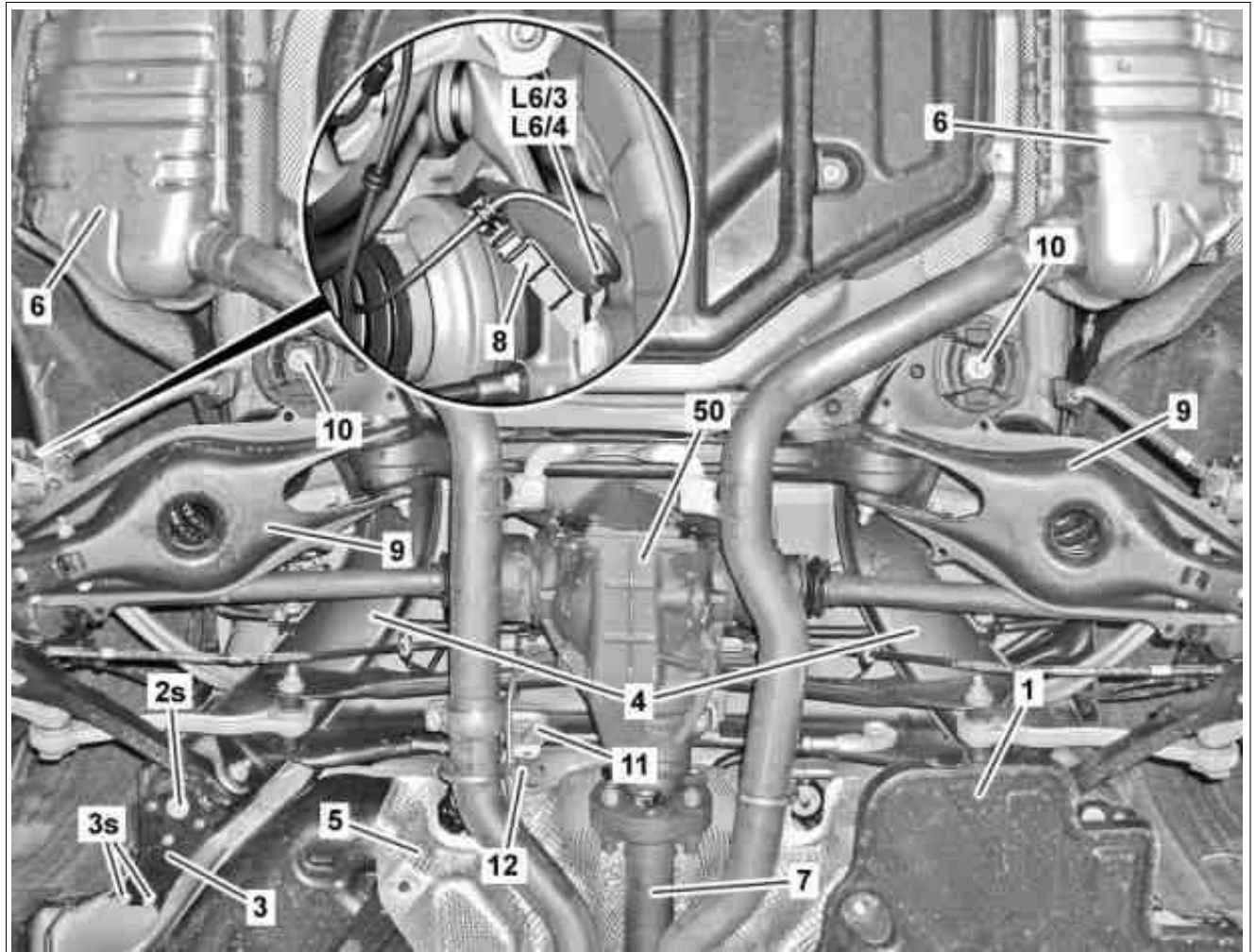
**Document number** ar3510p0015ew

Model 212, 218

## Modification notes





17.12.14	Schraube Anschlagplatte an Karosserie	TYP 212	BA35.10-P-1003-01N
17.12.14	Schraube Anschlagplatte an Karosserie	TYP 218	BA35.10-P-1003-01N

1	Underfloor paneling
2s	Screw
3	Stop plate
3s	Bolts
4	Rear axle carrier
5	Left heat shield
6	Rear muffler
7	Propeller shaft
8	Bracket
9	Spring control arm
10	Screw
11	Bracket
12	Rubber mount
50	Rear axle gear
L6/3	Left rear axle rpm sensor
L6/4	Right rear axle rpm sensor



P35.10-2484-06

	<b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
⚠	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
⚠	Notes on AIRmatic		AH32.22-P-1000-02EW
i	Notes on repair work on suspension components		AH00.00-P-0100-01A
	<b>Lower rear axle</b>		
1	Move transmission into neutral or idle position and release parking brake		
AD	Empty air springs using diagnostic system	Model 212.0/1, 218 with code 488 (Steel/air suspension) Model 212.0/1, 218 with code 489 (AIRMATIC) Model 212.2  ⚠ <b>Installation:</b> The air spring must be filled as per the specifications. Otherwise, the air spring may suffer initial damage and it may malfunction at a later stage.	AD00.00-P-2000-04A
3.1	Switch off ignition and remove transmitter key from electronic ignition lock control unit	Model 212, 218 except code 889 (KEYLESS-GO)	
3.2	Switch off ignition and remove transmitter key or KEYLESS-GO start/stop button from electronic ignition lock control unit	Model 212, 218 with code 889 (KEYLESS-GO)	
4	Secure vehicle on vehicle lift		AR00.60-P-0100EWS
AP	Remove rear road wheels		AP40.10-P-4050EW
6	Release left and right underfloor paneling (1) in the area of the front axle threaded connection	When lowering rear axle in front area.	
7	Remove left and right rear diagonal strut	Model 212.2, 218.9  Nm Bolt, rear diagonal strut bracket mount to body	*BA61.10-P-1006-01H

8	Release heat shield (5) on the left	 This serves to ensure that when the rear axle is lowered later on, the left heat shield (5) is not bent by the center brake cable.	
9	Remove both exhaust tips	Model 212 with code 772 (AMG styling package - front spoiler, side skirts and rear apron) Model 212 with code 950 (AMG Sports package) Model 212 with code 954 (Avantgarde) Model 212 with code P96 (Sports Package - exterior) Model 218 as of model year 2015 Model 218 up to model year 2014 with code 772 (AMG styling package - front spoiler, side skirts and rear apron) Model 218 up to model year 2014 with code B16 (Two-pipe exhaust system) Model 218 up to model year 2014 with code P96 (Sports Package - exterior)	
10	Unhook exhaust system from support rings on rear axle differential (50)		
11	Detach support rings from rear axle differential (50)		
12	Secure exhaust system at rear mufflers (6) against falling down		
13	Unhook rear muffler (6) at rear support rigs		
14	Slacken off threaded connections of propeller shaft center support bearing on frame floor assembly by 3 or 4 turns		AR41.10-P-0050EW
15	Detach drive shaft (7) from rear axle differential (50)	 The flexible coupling remains on the propeller shaft (7).	AR41.10-P-0050EW
16	Support rear axle carrier (4) on rear axle differential (50) using telescopic lifter and transmission plate and lash down  WS  WS 000 588 11 62 00 Major assembly mount 000 588 10 62 00 Support plate		WS01.00-P-0092B WS26.00-P-3309B
17	Unclip electrical line of left rear-axle rpm sensor (L6/3) from bracket (8) on left wheel carrier		
18	Unclip electrical line of right rear-axle rpm sensor (L6/4) from bracket (8) on right wheel carrier		
19	Unclip electrical line of right rear brake wear sensor from bracket (8) on right wheel carrier		
20	Unclip electrical line of left rear-axle damping valve unit from bracket (8) on left wheel carrier	Model 212.0/1, 218 with code 488 (Steel/air suspension) Model 212.0/1, 218 with code 489 (AIRMATIC) Model 212.2	
21	Unclip electrical line of right rear-axle damping valve unit from bracket (8) on right wheel carrier	Model 212.0/1, 218 with code 488 (Steel/air suspension) Model 212.0/1, 218 with code 489 (AIRMATIC) Model 212.2	
22	Unclip rubber mount (12) of rear brake cable from bracket (11)		
23	Remove covers from spring control arms (9)	When lowering rear axle in rear area.	
24.1	Remove steel springs	Model 212.0/1, 218 except code 488 (Steel/air suspension) except code 489 (AIRMATIC) When lowering rear axle in rear area.	AR32.20-P-0230EW
24.2	Remove air springs	Model 212.0/1, 218 with code 488 (Steel/air suspension) Model 212.0/1, 218 with code 489 (AIRMATIC) Model 212.2 When lowering rear axle in rear area.	AR32.22-P-1500EW
25.1	Remove bolts (2s, 3s) and remove stop plates (3)	When lowering rear axle in front area.	

		<p><b>⚠ Installation:</b> The threads in the frame floor assembly must be recut and blown out as any adhesive residue in the thread will prevent the bolts (2s, 3s) from achieving the required preload force, even when tightened to 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 bolts (2s, 3s), which could ultimately lead to bolt fracture.</p> <p><b>i Installation:</b> Replace bolts (2s, 3s).</p> <p><b>Nm</b> Self-locking bolt of front elastomer bearing on rear axle carrier to frame floor assembly</p> <p><b>Nm</b> Bolt, stop plate to body</p>	<p>*BA35.10-P-1001-01N</p> <p>*BA35.10-P-1003-01N</p>
25.2	Remove screws (10)	<p>When lowering rear axle in rear area.</p> <p><b>⚠ Installation:</b> The threads in the frame floor assembly must be recut and blown out as any adhesive residue in the thread will prevent the bolts (10) from achieving the required preload force, even when tightened to 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 bolts (10), which could ultimately lead to bolt fracture.</p> <p><b>i Installation:</b> Replace bolts (10).</p>	
26.1	Lower rear axle carrier (4) in front area	<p>When lowering rear axle in front area.</p> <p><b>⚠</b> Pay attention to fuel lines and electrical cables when lowering. Otherwise the lines may be damaged.</p>	
26.2	Lower rear axle carrier (4) in rear area	<p>When lowering rear axle in rear area.</p> <p><b>⚠</b> Pay attention to fuel lines and electrical cables when lowering. Otherwise the lines may be damaged.</p>	
27	Install in the reverse order		

**Nm** Rear axle carrier

Number	Designation		Model 212	Model 218	
BA35.10-P-1001-01N	Self-locking bolt of front elastomer bearing on rear axle carrier to frame floor assembly	Stage 1	Nm	80	80
		Stage 2		lösen	lösen
		Stage 3	Nm	80	80
		Stage 4	∠°	90	90

**Nm** Rear axle carrier

Number	Designation		Model 212	Model 218
BA35.10-P-1003-01N	Bolt, stop plate to body	Nm	30	30

**Nm** Frame floor assembly

Number	Designation		Model 212	Model 218
BA61.10-P-1006-01H	Bolt, rear diagonal strut bracket mount to body	Nm	60	60