Document title Remove/install complete rear axle

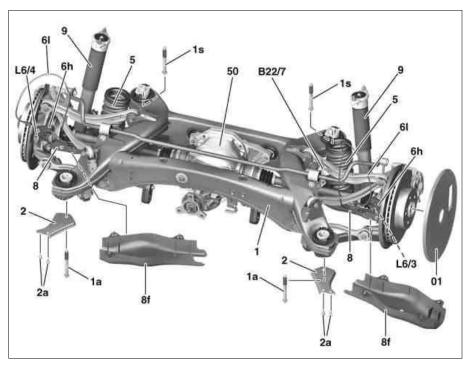
**Document number** ar3510p0010ew

### Model 212, 218

### **Modification notes**

23.05.2017	Wheel alignment check added.	AS 29	
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01 Guard plate Screw 1a 1s Screw 2 Stop plate 2a Bolts 5 Steel spring 6h Bracket 61 Electrical line 8 Spring control arm 8f Cover 9 Shock absorber 50 Rear axle gear B22/7 Left rear level sensor L6/3 Left rear axle rpm sensor L6/4 Right rear axle rpm sensor



P35.10-2327-06

	<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
⚠ Caution	Risk of poisoning from swallowing brake fluid. Risk of injury from skin and eye contac with brake fluid	Only pour brake fluid into suitable and tappropriately marked containers. Wear protective clothing and eye protection when handling brake fluid.	AS42.50-Z-0001-01A
	Notes on AIRmatic	Model 212 with code 488 (Steel/air suspension) Model 212 with code 489 (AIRMATIC) Model 218 with code 488 (Steel/air suspension) Model 218 with code 489 (AIRMATIC)	AH32.22-P-1000-02EW
	Notes on repair work on suspension components		AH00.00-P-0100-01A
XX	Remove/install		
1	Shift transmission into neutral position and release the parking brake		
2 ⊯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 498 (Japanese version) Model 212.2	AD00.00-P-2000-04A
		Installation: 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.	
3	Switch off ignition and store transmitter key outside of transmission range (min. 2 m)		

4	Secure vehicle on vehicle lift		AR00.60-P-0100EWS
5	Remove rear road wheels		
6	Release left and right underfloor paneling in area of threaded axle connection		AP40.10-P-4050EW AR61.30-P-1001EL
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	Remove exhaust system as from connecting point on center muffler	Model 212, 218	
		Model 212, 218 with engine 157, 276, 278 Model 212 with engine 156, 272, 273 Model 212, 218 with engine 642, 651 Model 212 with engine 274	AR49.10-P-7100EL AR49.10-P-7100EW AR49.10-P-7100EWI AR49.10-P-7100MR
9	Slacken off threaded connections of propeller shaft center support bearing on frame floor assembly by 3 or 4 turns	,	AR41.10-P-0050EW
10	Detach propeller shaft from rear axle differential (50)		AR41.10-P-0050EW
4.4	Damaya aantan huska aabla	Flex disk remains on propeller shaft.	AD 40 00 D 05005W
11 12	Remove center brake cable  Detach right rear brake wear sensor of electrical connection for right rear brake wear sensor from brake caliper		AR42.20-P-0523EW
13	Detach electrical connection for right rear brake wear sensor from brake caliper	Nm Screw/bolt, brake wear sensor to brake caliper	*BA42.10-P-1003-12J
14	Detach electrical connection from rear left level sensor (B22/7) and unclip from bracket	Model 212.0/1 with code 488 (Steel/air suspension) Model 212.0/1 with code 489 (AIRMATIC) Model 212.0/1 with code 615 (Bi-xenon headlamps with active light function) Model 212.0/1 with code 621 (Intelligent Light System (left- hand traffic)) Model 212.0/1 with code 622 (Intelligent Light System) Model 212.0/1 with code 631 (Static LED headlamps, left- hand traffic) Model 212.0/1 with code 632 (Headlamps, LED, static, right- side traffic) Model 212.0/1 with code 640 (SAE dynamic LED headlamps right-hand traffic) Model 212.0/1 with code 641 (Dynamic LED headlamps, left- hand traffic) Model 212.0/1 with code 642 (Dynamic LED headlamps, right-hand traffic) Model 212.0/1 with code 642 (Dynamic LED headlamps, right-hand traffic) Model 212.2 Model 218	
15	Detach electrical connection from rear right level sensor and unclip from bracket	Model 212.0/1, 218 with code 488 (Steel/air suspension) Model 212.0/1, 218 with code 489 (AIRMATIC) Model 212.2	
16	Detach electrical connection of left rear-axle damping valve unit from damper (9) and unclip relevant electrical line (6l) from left bracket (6h) on 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	
17	Detach electrical connection of right rear-axle damping valve unit from damper (9) and unclip relevant electrical line (6l) from right bracket (6h) on 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	
18	Remove left rear axle rpm sensor (L6/3) and right rear axle rpm sensor (L6/4) from wheel carriers		AR42.40-P-0820EW
19	Remove covers (8f) from spring control (8) arms		
20.1	Remove steel springs (5)	On vehicles with steel springs (5).	

		Model 212.0/1 except code 488 (Steel/air suspension) except code 489 (AIRMATIC) Model 218 except code 488 (Steel/air suspension) except code 489 (AIRMATIC)	AR32.20-P-0230EW
20.2	Remove air springs	When working on the body.  Model 212.0/1, 218  with code 488 (Steel/air suspension)  Model 212.0/1, 218  with code 489 (AIRMATIC)  Model 212.2	AR32.22-P-1500EW
20.3	Unclip air springs from the spring control arms (8)	When replacing the fuel tank or working on the rear axle.  Model 212.0/1, 218 with code 488 (Steel/air suspension) Model 212.0/1, 218 with code 489 (AIRMATIC) Model 212.2	AR32.22-P-1500EW
21.1	Detach left and right rear brake hose from brake lines	When working on the body.	
21.2	Dotach left and right roor broke coliner from	When replacing the fuel tank or working on the	AR42.10-P-0013EW
21.2	Detach left and right rear brake caliper from brake caliper support or wheel carrier	rear axle.  Model 212 (except 212.074/075/076/077/092/274/275/276/277/29 2)	AR42.10-P-0080EW
		Model 212.074/075/076/077/092/274/275/276/277/29 2	AR42.10-P-0080CMG
		Model 218.374/375/376/392/974/975/976/992 Model 218 (except 218.374/375/376/392/974/975/976/992)	AR42.10-P-0080EL
22.1	Remove shock absorbers (9) at top from body	When working on the body.  Model 212.0/1  except code 488 (Steel/air suspension)  except code 489 (AIRMATIC)	AR32.25-P-0110EW
		Model 218 except code 488 (Steel/air suspension) except code 489 (AIRMATIC) Model 212.0/1, 218 with code 488 (Steel/air suspension) Model 212.0/1, 218 with code 489 (AIRMATIC) Model 212.2	AR32.25-P-0110EWA
22.2	Remove shock absorbers (9) from spring links (8)	When replacing the fuel tank or working on the rear axle.  Model 212.0/1 except code 488 (Steel/air suspension) except code 489 (AIRMATIC) Model 218	AR32.25-P-0110EW
		except code 488 (Steel/air suspension) except code 489 (AIRMATIC) Model 212.0/1, 218 with code 488 (Steel/air suspension) Model 212.0/1, 218 with code 489 (AIRMATIC) Model 212.2	AR32.25-P-0110EWA
23	Support rear axle differential (50) and secure with a tensioning strap against falling down		
F WS F WS	000 588 11 62 00 Major assembly mount 000 588 10 62 00 Support plate		WS01.00-P-0092B WS26.00-P-3309B
24	Mount guard plates (01)		AR42.00-P-0100-01A *220589013100
25	Remove bolts (1s)  Notes on threaded connections fastened using a tightening angle-based tightening process  Notes on self-locking nuts and bolts		AH00.00-P-0020-01A AH00.00-N-0001-01A
		Installation: The thread in the frame floor assembly must be recut and then blown out. Otherwise, the faulty bolt preload force will cause bending forces to act on the bolts (1s), which could ultimately lead to bolt fracture.  Installation: Replace screw/bolts (1s) with new ones.  Self-locking bolt of rear elastomer bearing	
		on rear axle carrier to frame floor assembly	

26	Unscrew bolts (1a, 2a) and remove stop plates		
20	(2)		
	Notes on threaded connections fastened using		AH00.00-P-0020-01A
	a tightening angle-based tightening process		A1100:00-1 -0020-01A
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	Trotes on sen looking nate and boils	(B) 1 4 11 41	74100:00 14 0001 0174
		Installation:	
		The thread in the frame floor assembly must	
		be recut and then blown out. Otherwise, the faulty bolt preload force will	
		cause bending forces to act on the bolts (1a),	
		which could ultimately lead to bolt fracture.	
		i Installation: Replace bolts (1a, 2a).	*
		Bolt, stop plate to body	*BA35.10-P-1003-01N
		Nm Self-locking bolt of front elastomer bearing	*BA35.10-P-1001-01N
		on rear axle carrier to frame floor assembly	
27	Lower rear axle and remove from working area	(9)	
		Pay attention to fuel lines and electrical cables	
		when lowering.	
		Otherwise the lines may be damaged.	
28	Install in the reverse order		
29	Perform wheel alignment check		AR40.20-P-0200EW

### 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	4°	90	90

## Nm Rear axle carrier

Number	Designation			Model 212	Model 218
BA35.10-P-1002-01N	Self-locking bolt of rear 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

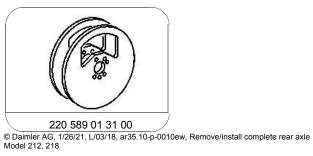
Number	Designation		Model 212	Model 218
BA35.10-P-1003-01N	Bolt, stop plate to body	Nm	30	30

# Nm Rear axle brake caliper

Number	Designation		Model 212	Model 218
BA42.10-P-1003-12J	Screw/bolt, brake wear sensor to brake caliper	MN	8	8

## 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



Guard plate