

P32.25-2134-09

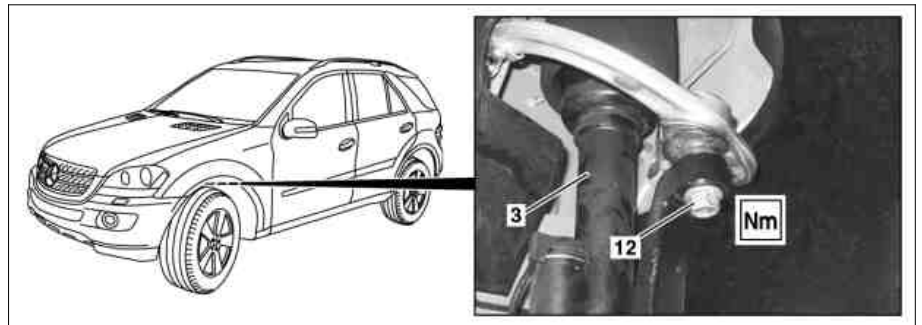
Overview of AIRmatic suspension, shown on model 164.1 with AIRmatic (air suspension with level adjustment and adaptive damping system ADS), code 489

- 1 Nuts
- 2 Pressure line connection
- 3 Front suspension strut
- 4 Cable tie
- 5 Brake hose bracket
- 6 Brake hose

- 7 Cable tie
- 8 ADS line
- 9 Nut
- 10 Nut
- 11 Nut

- Y51x1 Left front axle damping valve unit connector
- Y52x1 Right front axle damping valve unit connector

- 12 Nut





P32.25-2143-04

Modification notes

2.2.11	Final tightening in K0 position - added	Operation step 20	
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⚠	Remove/install		
Danger!	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
1	Switch off ignition and remove the transmitter key from the EIS [EZS] control unit	i On vehicles with code (889) Keyless Go: Press keyless go start/stop button repeatedly until ignition is switched off. Remove transmitter key from vehicle and store it in a location beyond its transmission range (at least 2 m).	

2	Open engine hood and raise to vertical position		AR88.40-P-1000GZ
3.1	Remove strut tower brace	Only on model 164.8.	AR62.30-P-2500GY
3.2	Remove 3 nut threaded connections for strut mounting stay and release one nut threaded connection	Only on model 164.195. 	*BA62.30-P-1005-02D
4	Raise strut mounting stay and place onto bracket	Only on model 164.195. To gain access to pressure line terminal (2).	
5	Raise vehicle until the wheels are clear of the ground	On vehicles with air suspension.	
6	Deflate AIRmatic system using STAR DIAGNOSIS	On vehicles with air suspension.	AD00.00-P-2000-04A
AD	Unscrew nuts (1) on front end		*BA32.25-P-1001-01G
8	Unscrew pressure line connection (2)	On vehicles with air suspension. Plug the pressure line for the duration of the repair operations. If pressure line connections or pressure lines are damaged: ↓ Repair AIRmatic pressure line connection Knife Socket wrench bit	AR32.22-P-2001-02GZ *BA32.22-P-1005-03B *000589122800 *211589000900
9	Remove front wheel		AP40.10-P-4050Z
AP	Remove fender liner front section in front fender	On vehicles with air suspension.	AR88.10-P-1310GZ
11	Cut off cable ties (4)		
12	Detach brake hose (6) from brake hose bracket (5) Notes on installing brake hoses		AH42.10-P-9406-01GZ
13	Cut off cable ties (7)	Installation: Observe installation position. Installation: Use new cable tie (7). Pliers	*164589013700
14	Unclip ADS line (8) from rpm sensor bracket	On vehicles with AIRmatic (air suspension with level adjustment and adaptive damping system, ADS), code 489.	
15	Detach left front axle damping valve unit connector (Y51x1) or right front axle damping valve unit connector (Y52x1)	On vehicles with AIRmatic (air suspension with level adjustment and adaptive damping system, ADS), code 489. Turn clip to remove (arrow).	
16	Undo nut (9) and remove tie rod from steering knuckle	 Thrust piece Puller	*BA46.40-P-1002-01K *140589006300 *140589093300
17	Undo nut (10) of link rod and remove link rod from front shock absorber		*BA32.20-P-1003-02L
18	Unscrew nut (12) and remove steering knuckle from upper transverse control arm	 Thrust piece Puller	*BA33.20-P-1001-01J *140589006300 *140589093300
19	Push front axle shaft out of front axle shaft flange, remove front axle shaft	On vehicles with steel suspension at front. See: ↓ Remove/install front axle shafts	AR33.30-P-0620GZ
20	Undo nut (11) from front shock absorber and remove front shock absorber from transverse control arm	Installation: Final tightening if vehicle on measuring platform or in K0 position, in order to avoid placing the rubber mount under stress. 	*BA32.25-P-1002-01G
21	Press transverse control arm downwards and remove front suspension strut (3)	When installing or reinstalling the front suspension strut (3), check the condition of the front suspension strut (3).	
22	Install in the reverse order		
23	Fill AIRmatic system using STAR DIAGNOSIS	On vehicles with AIRmatic (air suspension with level adjustment and adaptive damping system, ADS), code 489.	

		 The wheels must not make any contact with the ground when filling as when filling in the jounce condition the air spring bellows in the spring element will be destroyed.	AD00.00-P-2000-04A
24	Remove transport fastening or split ring below air spring bellows	On vehicles with air suspension.	
25	Check AIRmatic for leaks.		AR32.22-P-8100GZ
26	Perform wheel alignment check		AR40.20-P-0200GZ

 **Front axle stabilizer bar**

Number	Designation			Model 164.1/8
BA32.20-P-1003-02L	Nut, link rod to front shock	Stage 1	Nm	100
		2nd stage loosen	∟°	180
		Stage 3	Nm	120
		Stage 4	∟°	45

 **Air suspension**

Number	Designation			Model 164.1/8 with AIRmatic, code 489
BA32.22-P-1005-03B	Air suspension pressure line to front air suspension	Nm	5	

 **Front axle shock absorber**

Number	Designation			Model 164.1/8
BA32.25-P-1001-01G	Nut for shock absorber on front end	Stage 1	Nm	30
		Stage 2	∟°	-180
		Stage 3	Nm	27
BA32.25-P-1002-01G	Self-locking nut, shock absorber to wishbone	Nm	265	

 **Wheel control, hub**

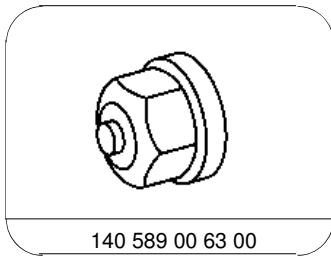
Number	Designation			Model 164.1/8
BA33.20-P-1001-01J	Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle	Stage 1	Nm	20
		Stage 2	∟°	90

Nm Tie rod

Number	Designation	Model 164.1/8		
BA46.40-P-1002-01K	Self-locking nut, tie rod to steering knuckle	Stage 1	Nm	45
		Stage 2	∠°	90

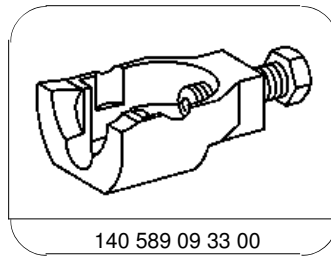
Nm Front end assembly with front reinforcement

Number	Designation	Model 164.8	
BA62.30-P-1005-02D	Nut, for dome strut bolted connection to bracket	Nm	50



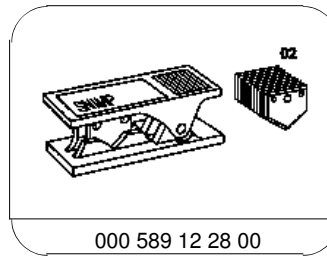
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Thrust piece



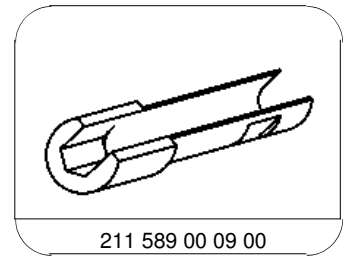
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Puller



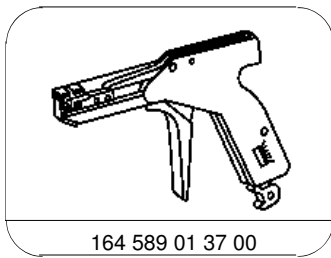
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Slitting knife



211 589 00 09 00

Wrench socket



164 589 01 37 00

Pliers