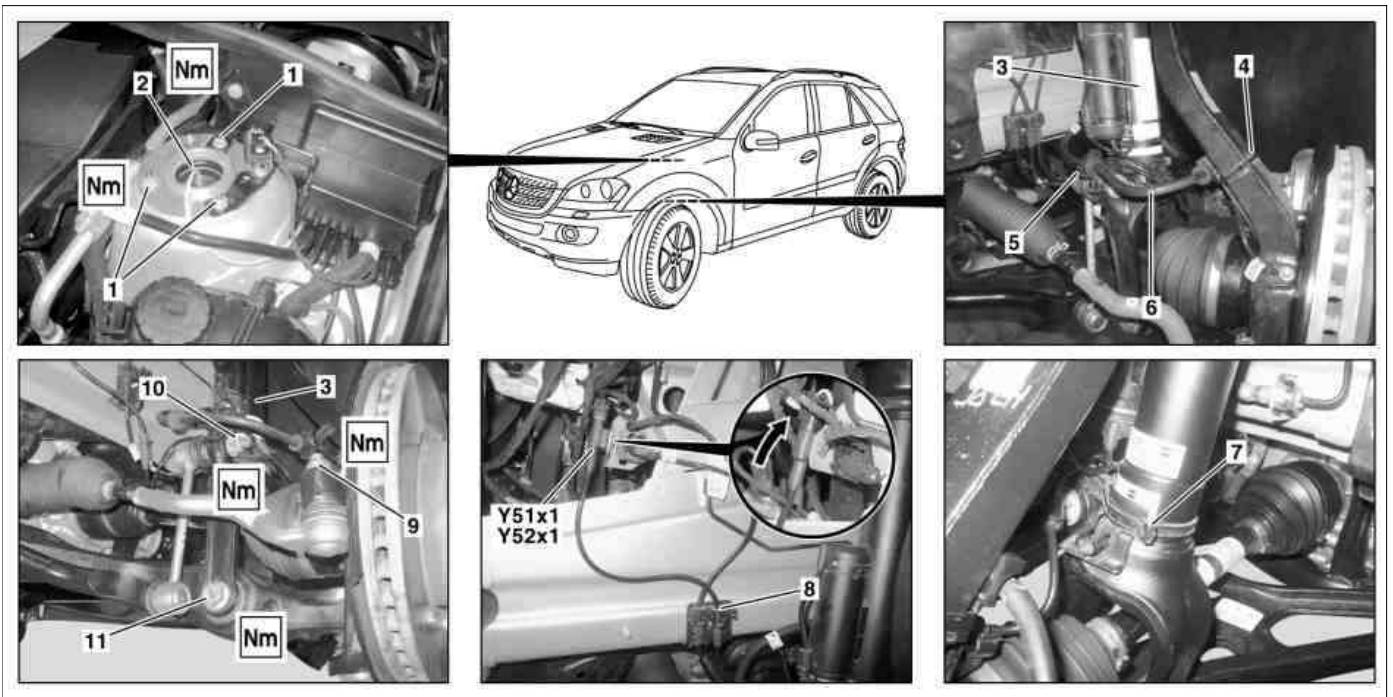


Model 164

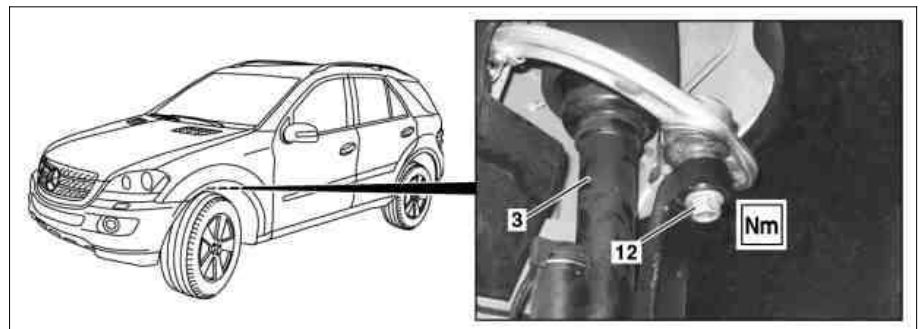


P32.25-2134-09

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























- |   |                          |    |                                    |       |   |
|---|--------------------------|----|------------------------------------|-------|---|
| 1 | Nuts                     | 6  | Brake hose                         | 11    | Nut   |
| 2 | Pressure line connection | 7  | Cable tie                          | Y51x1 | Electrical connection for left front-axle damping valve unit  |
| 3 | Front suspension strut   | 8  | Adaptive damping system (ADS) line | Y52x1 | Electrical connection for right front-axle damping valve unit |
| 4 | Cable tie                | 9  | Nut                                |       |   |
| 5 | Brake hose bracket       | 10 | Nut                                |       |   |

12 Nut



P32.25-2143-04

<p><b>⚠ Danger!</b></p>	<p><b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.</p>	<p>Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.</p>	<p>AS00.00-Z-0010-01A</p>
<p><b>ⓘ</b></p>	<p>Notes on self-locking nuts and bolts</p>		<p>AH00.00-N-0001-01A</p>
<p><b>⊠ ⊠</b></p> <p>1</p>	<p><b>Remove/install</b></p> <p>Switch off ignition and remove transmitter key from EIS control unit</p>	<p>Model 164 with code 889 (KEYLESS-GO)</p> <p><b>i</b> Press Keyless Go start and stop button repeatedly until the ignition is switched off. Remove the transmitter key from the vehicle and store it in a location beyond its transmission range (at least 2 m).</p>	

2	Open engine hood and raise to vertical position		AR88.40-P-1000GZ
3.1	Remove strut tower brace	Only on model 164.8  Nut, for dome strut bolted connection to bracket	AR62.30-P-2500GY *BA62.30-P-1005-02D
3.2	Remove 3 nuts from strut mounting stay and unfasten one nut	Only on model 164.195	
4	Raise strut mounting stay and place onto bracket	Only on model 164.195  Gain access to compressed-air connection (2).	
5	Jack up vehicle until the wheels are clear of the ground	Model 164 with code 489 (AIRMATIC)	
6	Deflate AIRmatic system using diagnostic system <b>Can only be done with Star</b>	Model 164 with code 489 (AIRMATIC)	AD00.00-P-2000-04A
	Unscrew nuts (1) on front end	 Nut for shock absorber on front end	*BA32.25-P-1001-01G
8	Unscrew pressure line connection (2)	Model 164 with code 489 (AIRMATIC)  Plug the pressure line for the duration of the repair operations.  Air suspension pressure line to front air suspension Leakage detection spray for USA Leak detection spray  Socket wrench bit  Knife If pressure line or its connection fittings are damaged: ↓ Repair AIRmatic pressure line connection	*BA32.22-P-1005-03B *BR00.45-Z-1004-03A *BR00.45-Z-1002-03A *211589000900 *000589122800 AR32.22-P-2001-02GZ
9	Detach front wheel and tire assembly		AP40.10-P-4050Z
	Remove front section of fender liner in fender	Model 164 with code 489 (AIRMATIC)	AR88.10-P-1310GZ
11	Remove cable ties (4)		
12	Detach brake hose (6) from brake hose bracket (5)  Notes on installing brake hoses		AH42.10-P-9406-01GZ
13	Remove cable ties (7)	 <b>Installation:</b> Pay attention to installation position.  <b>Installation:</b> Use new cable tie (7).  Pliers	*164589013700
14	Unclip ADS line (8) from rpm sensor bracket	Model 164 with code 489 (AIRMATIC)	
15	Detach electrical connection for left front-axle damping valve unit (Y51x1) or electrical connection for right front axle damping valve unit (Y52x1)	Model 164 with code 489 (AIRMATIC)  Turn retaining clip to remove (arrow).	
16	Undo nut (9) and remove tie rod from steering knuckle	 Self-locking nut, tie rod to 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	 Nut, torsion bar linkage to front suspension strut	*BA32.20-P-1003-02L
18	Unscrew nut (12) and remove steering knuckle from upper transverse control arm	 Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle  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	Model 164 except code 489 (AIRMATIC) 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	 <b>Installation:</b> Final tightening, when vehicle on measuring platform or in K0 position. To avoid tensioning elastomer bearing.	

		Self-locking nut, shock absorber to wishbone	*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	Charge AIRmatic system using diagnostic system	Model 164 with code 489 (AIRMATIC) The wheels must not be in contact with the ground during the filling. Since the air suspension bellows in the spring element is destroyed when filling in deflected condition.	AD00.00-P-2000-04A
24	Remove transport fastening or split ring below air suspension bellows	Model 164 with code 489 (AIRMATIC)	
25	Check AIRmatic for leaks	Model 164 with code 489 (AIRMATIC)	AR32.22-P-8100GZ

Front axle torsion bar

Number	Designation	Model 164.1/8
BA32.20-P-1003-02L	Nut, torsion bar linkage to front suspension strut	Stage 1 Nm 100
		Stage 2: Loosen $\Delta^\circ$ 180
		Stage 3 Nm 120
		Stage 4 $\Delta^\circ$ 45

Air suspension

Number	Designation	Model 164.1/8 with code 489 (AIRMATIC)
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 $\Delta^\circ$ -180
		Stage 3 Nm 27

Front axle shock absorber

Number	Designation	Model 164.1/8
BA32.25-P-1002-01G	Self-locking nut, shock absorber to wishbone	Nm 265

Wheel control, hub

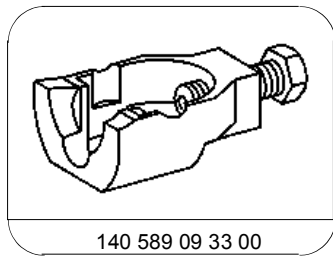
Number	Designation	Model 164.1/8
BA33.20-P-1001-01J	Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle	Stage 1 Nm 20
		Stage 2 $\Delta^\circ$ 90

Tie rod

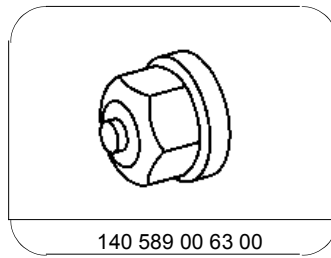
Number	Designation	Model 164.1/8
BA46.40-P-1002-01K	Self-locking nut, tie rod to steering knuckle	Stage 1 Nm 45
		Stage 2 $\Delta^\circ$ 90

**Nm** Front end with front reinforcement

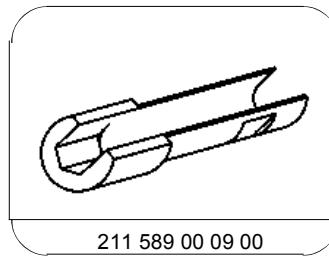
Number	Designation	Model 164.8
BA62.30-P-1005-02D	Nut, for dome strut bolted connection to bracket	Nm 50



Puller



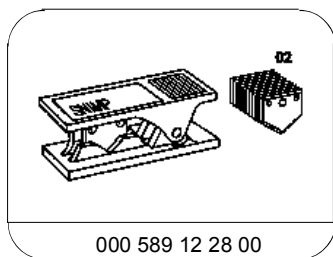
Thrust piece



Socket wrench bit



Pliers



Knife

**Repair materials**

Number	Designation	Order number
BR00.45-Z-1002-03A	Leak detection spray	Christof Fischer GmbH www.kaeltefischer.de
BR00.45-Z-1004-03A	Leakage detection spray for USA	LIQUI MOLY www.liqui-moly.com