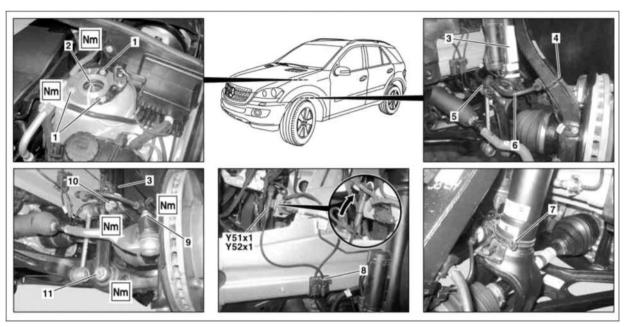
# Printout

17 June 2019 12:08

#### MODEL 164

### **Modification notes**

27.7.12	Repair method modified	Wheel alignment check omitted	
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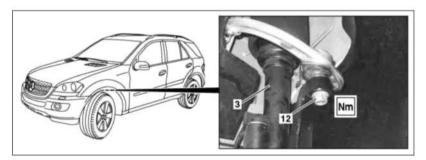


P32.25-2134-09

# 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	6	Brake hose	11	Nut
2	Pressure line connection	7	Cable tie	Y51x1	Left front axle damping valve unit connector
3	Front suspension strut	8	ADS line	Y52x1	Right front axle damping valve unit connector
4	Cable tie	9	Nut		
5	Brake hose bracket	10	Nut		

12 Nut



P32.25-2143-04

XX	Remove/install		
⚠ Danger !	Risk of death 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 vehicle	AS00.00-Z-0010-01A
		manufacturer	

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17	Undo nut (10) of link rod and remove link rod from front shock absorber	Nut, link rod to front shock	*BA32.20-P-1003-02L
16	Undo nut (9) and remove tie rod from steering knuckle	Nm Self-locking nut, tie rod to steering knuckle  Thrust piece  Puller	*BA46.40-P-1002-01K
15	Detach left front axle damping valve unit connector (Y51x1) or right front axle damping valve unit connector (Y52x1)	MODEL 164 with CODE 489 (AIRMATIC (air suspension with continuous damper adjustment))  Turn clip to remove (arrow).	
14	Unclip ADS line (8) from rpm sensor bracket	MODEL 164 with CODE 489 (AIRMATIC (air suspension with continuous damper adjustment))	
13	Cut off cable ties (7)	installation: Pay attention to installation position. installation: Use new cable tie (7). Pliers	
i	Notes on installing brake hoses		AH42.10-P-9406-01GZ
12	Detach brake hose (6) from brake hose bracket (5)		
11	Cut off cable ties (4)		
10	Remove fender liner front section in front fender	MODEL 164 with CODE 489 (AIRMATIC (air suspension with continuous damper adjustment))	AR88.10-P-1310GZ
9 ⊯`AP	Remove front wheel		AP40.10-P-4050Z
		damaged:   Repair AlRmatic pressure line connection	AR32.22-P-2001-02GZ
		Socket wrench bit Knife If pressure line or its connection fittings are	*211589000900 *000589122800
		Leak detection spray for USA Leak detection spray	*BR00.45-Z-1004-03A *BR00.45-Z-1002-03A
		Nim Air suspension pressure line to front air suspension	*BA32.22-P-1005-03B
		system ADS ))  i Plug the pressure line for the duration of the repair operations.	
8	Unscrew pressure line connection (2)	MODEL 164 with CODE 489 (Airmatic (air suspension with level adjustment and adaptive damping	
7	Unscrew nuts (1) on front end	Nm Nut for shock absorber on front end	*BA32.25-P-1001-01G
6 <b>™</b> A D	Deflate AIRmatic system using STAR DIAGNOSIS	MODEL 164 with CODE 489 (AIRMATIC (air suspension with continuous damper adjustment))	AD00.00-P-2000-04A
5	Raise vehicle until the wheels are clear of the ground	MODEL 164 with CODE 489 (AIRMATIC (air suspension with continuous damper adjustment))	
	bracket	i To gain access to pressure line terminal (2).	
4	mounting stay and release one nut threaded connection  Raise strut mounting stay and place onto	Only on model 164.195	
3.2	Remove 3 nut threaded connections for strut	bracket Only on model 164.195	
		Nm Nut, for dome strut bolted connection to	AR62.30-P-2500GY *BA62.30-P-1005-02D
3.1	position  Remove strut tower brace	Only on model 164.8	
2	Open engine hood and raise to vertical	repeatedly until the ignition is switched off. Remove transmitter key from vehicle and store it in a location beyond its transmission range (at least 2 m).	AR88.40-P-1000GZ
1	Switch off ignition and remove the transmitter key from the EIS [EZS] control unit	MODEL 164 with CODE 889 (Keyless Go)  Press Keyless Go start and stop button	

	Unscrew nut (12) and remove steering	Nm Self-locking nut, upper ball joint out of	*BA33.20-P-1001-01J
	knuckle from upper transverse control arm	upper transverse control arm to steering knuckle	
		Thrust piece	
		S Puller	
19	Push front axle shaft out of front axle shaft flange, remove front axle shaft	MODEL 164 without CODE 489 (AIRMATIC (air	
		suspension with continuous damper adjustment))	
		See	
		Remove/install front axle shafts	
		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	(1) Installation: Final tightening, when vehicle on measuring platform or in K0 position.  In order to prevent placing rubber bushing	
		under stress.	
		Nm Self-locking nut, shock absorber to wishbone	*BA32.25-P-1002-01G
21	Press transverse control arm downwards and remove front suspension strut (3)	i 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	MODEL 164 with CODE 489 (AIRMATIC (air suspension	
		with continuous damper adjustment))	
Fe A D		The wheels must not be in contact with the ground during the filling. Since the air suspension bellows in the	AD00.00-P-2000-04A
		spring element is destroyed when filling in deflected condition.	
24	Remove transport fastening or split ring below air spring bellows	MODEL 164 with CODE 489 (AIRMATIC (air suspension with continuous damper adjustment))	
25	Check AIRmatic for leaks	MODEL 164 with CODE 489 (Airmatic (air suspension with level adjustment and adaptive damping system ADS ))	
		, , , , , , , , , , , , , , , , , , , ,	AR32.22-P-8100GZ

## Nm 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	4°	-180
		Stage 3	Nm	27

## Nm Front axle shock absorber

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

# 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

## Nm Front axle torsion 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	る°	180
		Stage 3	Nm	120
		Stage 4	Δ°	45

 $\ ^{\odot}$  Daimler AG, 6/17/19, G/01/14, ar32.25-p-1017gz, Remove/install the suspension strut MODEL 164

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# 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	ح ک	90

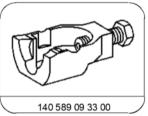
# Nm Air suspension

Number	Designation		MODEL 164.1/8
			with CODE 489 (Airmatic (air
			suspension with
			level adjustment and adaptive
			damping system
			ADS ))
BA32.22-P-1005-03B	Air suspension pressure line to front air suspension	Nm	5

# Nm 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	Δ°	90





Puller





Pliers

211 589 00 09 00

Socket wrench bit

Repair materials

# Number Designation Order number Christof Fischer GmbH, Augsburger Strasse 289-293, 70327 Stuttgart Germany Tel. +49 711 30502-0 Fax +49 711 30502-10 www.kaeltefischer.de BR00.45-Z-1002-03A Leak detection spray

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BR00.45-Z-1004-03A	Leakage detection spray for USA	LIQUI MOLY
		Gary Boyd
		1820 Clark Avenue
		Long Beach, CA 90815
		USA
		Phone +1 562 5975519
		Fax: +1 562 5975269
		www.ligui-moly.com

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