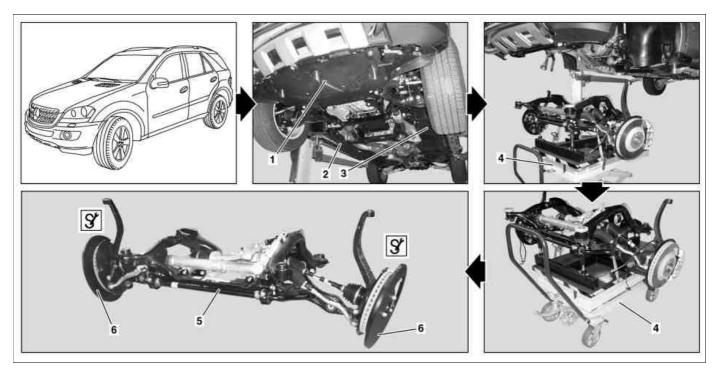
MODEL 164

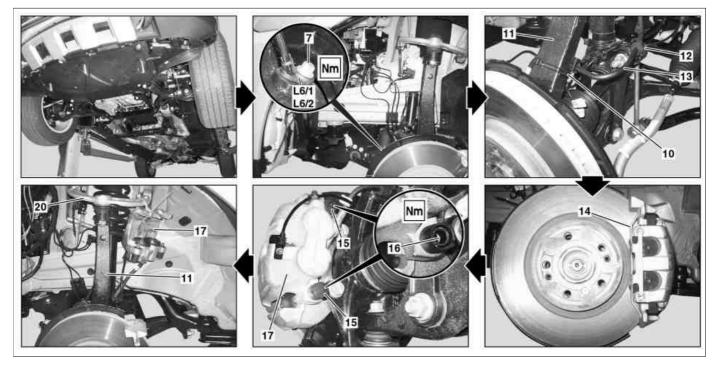


P33.10-2246-09

Shown on model 164.1 with engine 113

- 1 Engine compartment paneling
- 2 Right underfloor paneling
- 3 Left underfloor paneling

- 4 Lifting device
- 5 Front axle
- 6 Guard plates

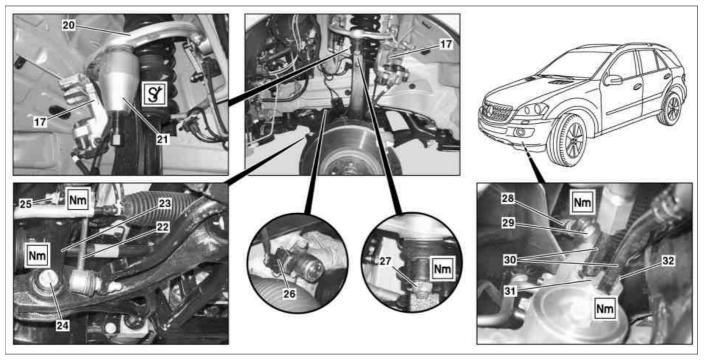


P33.10-2247-09

Shown on model 164.1 with engine 113

- 7 Speed sensor bolt
- 10 Cable tie
- 11 Steering knuckle
- 12 Bracket for brake hose
- 13 Brake hose
- 14 Clamp
- 15 Plastic caps

- 16 Guide bolts
- 17 Brake caliper
- 20 Upper transverse control arm
- L6/1 Left front rpm sensor
- L6/2 Right front rpm sensor

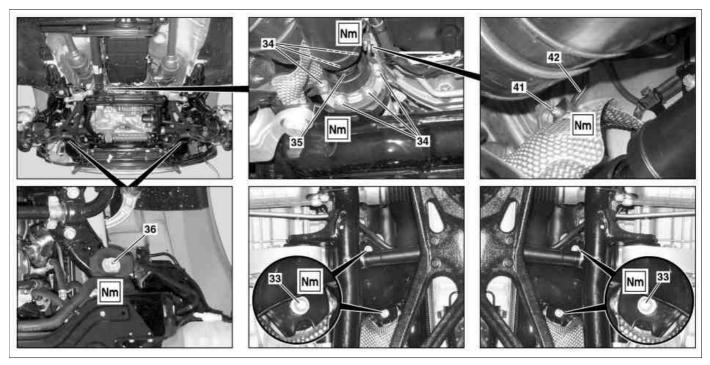


P33.10-2248-09

Shown on model 164.1 with engine 113

- 17 Brake caliper
- 20 Upper transverse control arm
- 21 Puller
- 22 Link rod
- 23 Suspension strut
- 24 Screw connection
- 25 Link rod nut

- 26 Connector
- 27 Nut for steering knuckle
- 28 Steering column
- 29 Bolt for steering coupling
- 30 Oil lines
- 31 Retaining plate
- 32 Retaining plate bolt

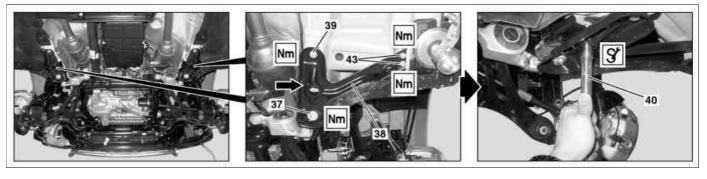


P33.10-2250-09

Shown on model 164.1 with engine 113

- 33 Front engine mount bolts
- 34 Bolts for propeller shaft
- 35 Propeller shaft

- 36 Bolts for front axle carrier
- 41 Bolt for vent line's bracket
- 42 Vent line for front axle gear



P33.10-2251-07

Shown on model 164.1 with engine 113

- 37
- Bolts for rear axle carrier Centering panel Bolts for rear centering panel 38 39

40 Drifts

43 Bolts for outer centering panel

Modification notes

2.2.11 Final tightening in KU position - added Operation step 20	2.2.11	Final tightening in K0 position - added	Operation step 20	
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XX	Remove/install		
	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
	Risk of death when touching components on vehicles with high-voltage on-board electrical system	Do not touch components and open lines of the high-voltage on-board electrical system. Persons who are carriers of electronic implants (e.g. cardiac pacemakers), must not carry out any work on high-voltage on-board electrical systems.	AS54.00-Z-0001-01A
•	Notes on self-locking nuts and bolts	All models	AH00.00-N-0001-01A
()	When working on the front-end assembly, be careful not to scratch, mark or notch the surfaces of aluminum parts. Otherwise the service life of the parts will be affected		
i	Evaluating steering rack when repairing accident vehicles		AH46.20-P-9409-01A
i	Notes on installing brake hoses		AH42.10-P-9406-01GZ
i	Notes on AIRmatic		AH32.22-P-1000-02GZ
	Deactivate easy entry/exit function	Only on vehicles with memory package (driver seat, steering column, mirrors), code 275. Otherwise the steering wheel moves to another position when the driver door is opened or closed. The installed holding device may cause damage as a consequence.	AR54.30-P-1000-02GZ
2	Attach lifting platform safety devices and fasten vehicle onto lifting platform	Y Lifting platform retainer	AR00.60-P-1000GZ *169589023100
)	Remove the front wheels	Enting platform retainer	100000020100
, ♣ AP	Remove/install wheels, rotate if necessary		AP40.10-P-4050Z
ļ	Evacuate front suspension struts using STAR DIAGNOSIS	i For vehicles with air suspension only. i The vehicle may not be standing on its wheels.	
¥ AD	Connect STAR DIAGNOSIS and read out fault memory		AD00.00-P-2000-04A
j	Turn key in ignition switch to position "0".	i Vehicles with Keyless Go, code 889: Press Keyless Go start/stop button repeatedly until ignition is switched off.	
)	Remove strut tower brace	Model 164.8 with diesel engine	AR62.30-P-2500GY
,	Remove engine trim panel	Installation, engine 642: Ignition switched off.	
3	Remove power electronics with power distributor	Engine 272.973 in model 164.195	AR08.10-P-0011GZH
)	Remove air filter housing	Engine 642 left side	AR09.10-P-1150GZB

		Engine 642 right side	AR09.10-P-1150GZC AR09.10-P-1150GZD
10	Suction off oil from expansion reservoir of	Engine 629 Sample of the state of the sta	*210589007100
11	power steering Mount engine support frame and raise engine		AR33.10-P-0100-01GZ
	would engine support frame and raise engine	Engine support device, engine hoist gotis://A_01_09.0	A100.101 0100 0102
12	Raise vehicle		AR00.60-P-1000GZ
13	Remove fender liner.	i On both sides of the vehicle.	AR88.10-P-1300GZ
14	Remove left front rpm sensor (L6/1) and right front rpm sensor (L6/2), detach electrical lines up to suspension strut (23)	<u> Nm</u>	*BA42.30-P-1001-01G
15	Remove cable tie (10), open bracket of brake hose (12) and unclip brake hose (13)	i On both sides of the vehicle. i Installation: Observe installation position.	
		i Installation: The brake hose must not be installed in a twisted state. i Installation: Use new cable ties.	
		Y Pliers	*164589013700
16	Remove clamp (14) from brake caliper (17) or both sides of vehicle		
17	Detach brake lining thickness contact sensor plug on brake caliper (17)	i The brake lining thickness contact sensor is only available on one side of the vehicle.	
18	Remove plastic caps (15) on left and right and remove guide pins (16)	Nm	*BA42.10-P-1002-10L
19	Remove brake caliper (17), take out brake pads and fasten brake caliper (17) at upper transverse control arm (20)	i On both sides of the vehicle.	
		i Installation: Check parts of the brake system, press back piston with pusher tool, clean contact surfaces of brake pads: ↓	AD40 40 D 040007
		Remove/install brake pads.	*000589524300
20	Remove bolted connection (24) on suspension strut (23) at left and right	Installation: Final tightening if vehicle on measuring platform or in K0 position, in order to avoid placing the rubber mount under stress.	
		Nm	*BA32.25-P-1002-01G
21	Remove link rod nut (25) and detach link rod (22) from suspension strut (23)	i On both sides of the vehicle.	*BA32.20-P-1003-02L
22	Unscrew nut for steering knuckle (27) at left	Nm	*BA33.20-P-1001-01J
23	and right Use puller (21) to detach left and right steering knuckle (11) and remove thrust piece	Y Puller	*601589043300
	from upper transverse control arm (20)	Thrust piece	*140589006300
24	Mount guard plates (6)	Guard plate	*220589013100
25	Raise vehicle	Guard plate	AR00.60-P-1000GZ
26.1	Remove engine compartment paneling (1)	Vehicles with gasoline engine without offroad package, code 430.	
26.2	Remove bottom section of soundproofing	Vehicles with diesel engine without offroad package, code 430.	AR94.30-P-5300GZ
26.3	Remove underride guard	Vehicles with offroad package, code 430.	AR88.30-P-0010GZ
27	Detach left underfloor paneling (3) and right underfloor paneling (2) downstream of the two front wheelhouses	Loosen until the bolts of rear centering plate (39) and bolts of outer centering plate (43) are accessible: ↓	
		Remove/install underfloor paneling.	AR61.30-P-1001GZ
28	Detach plug (26) on steering gear		*DA 40 00 D 4004 0115
29	Remove bolt for retaining plate (32) and remove retaining plate (31)	Nm	*BA46.20-P-1001-01K
30	Tie oil lines (30) to one side	Collect and dispose of hydraulic fluid. Sea off oil lines.	1 *129589009100
31	Remove bolt for steering coupling (29) and remove steering column (28) from the steering coupling	Set of stop plugs Turn steering up to half a rotation if the bolt for the steering coupling is not accessible	
	5 1 5	Nm	*BA46.10-P-1002-01J
			27110110 1 1002 010

34	Raise vehicle		AR00.60-P-1000GZ
35	Remove bolts for front engine mount (33)	Nm	*BA22.10-P-1001-03G
36	Remove bolt of bracket of vent line (41) and		B/122.101 1001 000
30	remove vent line of front axle gear (42)		
37	Mark position of propeller shaft (35) relative to		
	flange of front axle gear		
38	Remove bolts for propeller shaft (34)	(1) Installation: It is essential to observe the	AR41.10-P-0070-03GZ
		tightening instructions. Failure to do so can	
		result in noises and vibrations.	
		Retainer wrench	*164589020700
		Nm	*BA41.10-P-1004-01F
39	Detach propeller shaft (35) from front axle	Do not let the propeller shaft dangle	
	gear and fasten loosely to vehicle floor	loosely otherwise the joints may be damaged.	
40	Prop up front axle (5) using suitable hoisting	i Additionally attach front axle to lifting	
	gear (4)	device.	
41	Remove the bolts of the front axle carrier (36)	$oxed{i}$ On both sides of the vehicle.	
	and bolts of the rear axle carrier (37)		*DA00 10 D 1001 011
		Nm	*BA33.10-P-1001-01I
42	Remove bolts of rear centering panel (39) and bolts of outer centering panel (43), remove	installation: Insert drift (40) through the	
	centering panel (38)	holes (arrow), align centering plate, tighten bolts of the outer centering plate and bolts of	
	contoining parior (co)	the rear centering plate. The alignment is	
		correct when the drift (40) is vertical in all	
		directions.	
		i On both sides of the vehicle.	
		Nm	*BA33.10-P-1002-01I
		Nm	*BA33.10-P-1003-01I
		T Drift set	*164589011500
43	Lower front axle (5) slowly	E Dime see	
4	Checking		
44	Check front axle (5) parts	Double of demonstration with the contract	
45	(/ 1	i Replace damaged parts with new parts.	
45 46	Install in the reverse order Fill power steering pump and bleed		AR46.30-P-0010GZ
40	Checking		ALI-0.00-1 -00 10GZ
47		New	*DA00 00 D 1001 005
47	Check oil level in front axle gear, rectify if necessary	Nm	*BA33.30-P-1001-03F
		<u> </u>	*BF33.30-P-1001-03D
		Loctite 7063 cleaning spray	*BR00.45-Z-1046-04A
		Omnifit 100H cleaning compound	*BR00.45-Z-1046-04A
48	Perform wheel alignment check	Chiling Compound	AR40.20-P-0200GZ
49	Check headlamp adjustment, correct if	i Only if a companying a constraint of the	
	necessary	i Only if suspension components have been replaced.	1
₽ AP	Check and correct the adjustment of the	Topiaood.	AP82.10-P-8260GZ
F A1	headlamps		32.10 1 3200 GZ

$\overline{\rm Nm}$ Engine mount, engine support (engine side)

Number	Designation	Model 164
BA22.10-P-1001-03G	Bolt, front engine mount to front axle carrier Nm	53

Nm 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	Δ°	180
		Stage 3	Nm	120

	Ct 4	Z 0 1E
	Stage 4	∡° 45

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

NmFront axle carrier

Number	Designation				Model 164.1/8 except 164.177
BA33.10-P-1001-01I	Bolt, front axle carrier to longitudinal member	M14×1.5	Stage 1	Nm	100
			Stage 2	۷°	120
			Stage 3	۷°	-180
			Stage 4	Nm	100
			Stage 5	Δ°	90
BA33.10-P-1002-01I	Bolt, stiffening plate to longitudinal member	M10		Nm	61
BA33.10-P-1003-01I	Bolt, stiffening plate to body	M8		Nm	31

NmWheel 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

Nm Front axle transmission

Number	Designation	Model 164.1/8
BA33.30-P-1001-03F	Oil filler screw, front axle transmission Nm	35

Nm Propeller shaft

Number	Designation			Model 164.1/8
BA41.10-P-1004-01F	Self-locking bolt, propeller shaft to front axle gear	Stage 1	Nm	40
		Stage 2	Δ°	90

Nm Front axle brake caliper

Number	Designation	Model 164 except 164.177	Model 164.177
BA42.10-P-1002-10L	Guide pin on caliper support N	n 55	30

Nm Front axle rpm sensor

Number	Designation	Model 164.1/8
BA42.30-P-1001-01G	Self-locking bolt, front axle rpm sensor to Nm steering knuckle	8

Nm Steering shaft

Number	Designation	Model 164.1/8
BA46.10-P-1002-01J	Bolt, steering coupling to rack-and-pinion Nm steering	33

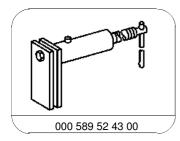
Nm Steering gear

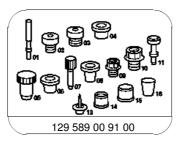
Number	Designation	Model 164.1/8
BA46.20-P-1001-01K	Bolt, retaining plate for oil line to control Nm head	18

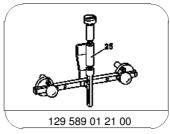
Front axle transmission

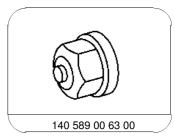
Number	Designation	Model 164.1/8

BF33.30-P-1001-03D	Filling capacity	Front axle transmission Liters		1.1
		Specifications for Operating Fluids	Sheet	BB00.40-P-0235-07A







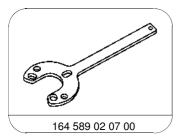


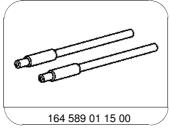
Pusher tool

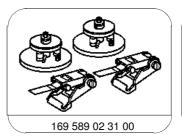
Set of stop plugs

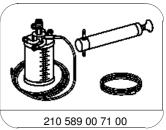
Holding device

Thrust piece







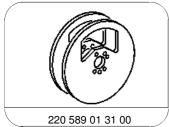


Retainer wrench

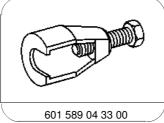
Drift set

Vehicle lift safety device

Hand pump







Puller



Repair materials

Number	Designation	Order number
BR00.45-Z-1061-01A	Sealant, Omnifit 100H (50 g)	A 002 989 23 71
BR00.45-Z-1046-04A	Loctite 7063 cleaning spray (150 ml)	A 001 986 71 71 10