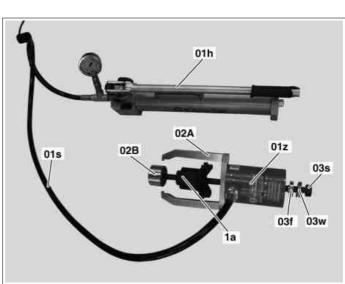
# AR33.10-P-0040GZ Replace front axle carrier bearing MODEL 164

### Location of special tools for REMOVAL

1a	Bearing
01h	Hand pump
01s	Hydraulic hose
01z	Hollow cylinder
02A	Extraction and insertion tool part A
02B	Extraction and insertion tool part B
03f	Guide sleeve
020	Marm aboft

- 03s Worm shaft
- 03w Shims

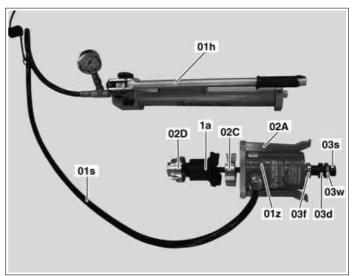


P33.10-2346-11

4.3.11

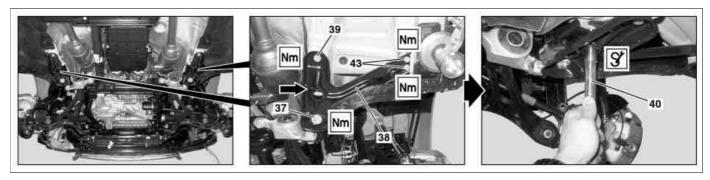
### Location of special tools for INSTALLATION

1a	Bearing
01h 01s 02A 02C 02D 03d 03f 03s	Hand pump Hydraulic hose Hollow cylinder Extraction and insertion tool part A Extraction and insertion tool part C Extraction and insertion tool part D Spacer sleeve Guide sleeve Worm shaft
03w	Shims



P33.10-2347-11

P33.10-2251-07



Shown on model 164.1 with engine 113

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

40 Drifts

43 Bolts for outer centering panel

XX	Remove/install		
	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

	<b>Risk of death</b> when touching components on vehicles with high-voltage on-board electrical system	h high-voltage on-board electrical Persons who are carriers of electronic implants (e.g. cardiac pacemakers), must <b>no</b> carry out any work on high-voltage on-board electrical systems.		
	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		
1	Attach lifting platform safety devices and fasten vehicle onto lifting platform		AR00.60-P-1000GZ *169589023100	
2	Turn key in ignition switch to position "0".	<ul> <li>Lifting platform retainer</li> <li>Vehicles with Keyless Go, code 889: Press Keyless Go start/stop button repeatedly until ignition is switched off.</li> </ul>		
3	Remove strut tower brace	Model 164.8 with diesel engine	AR62.30-P-2500GY	
4	Remove engine trim panel	i Installation, engine 642: Ignition switched off.	ANO2.30-7-23000 Y	
5	Remove power electronics with power distributor	Engine 272.973 in model 164.195	AR08.10-P-0011GZH	
6	Mount engine support frame and raise engine	S Engine hoist	AR33.10-P-0100-01GZ *240589006100	
7	Raise vehicle		AR00.60-P-1000GZ	
8	Remove fender liner.		AR88.10-P-1300GZ	
9.1	Remove engine compartment paneling	Vehicles with gasoline engine without offroad package, code 430.		
9.2 9.3	Remove bottom section of soundproofing	Vehicles with diesel engine without offroad package, code 430. Vehicles with offroad package, code 430.	AR94.30-P-5300GZ AR88.30-P-0010GZ	
0	Remove underride guard Loosen left underfloor paneling and right			
10	underfloor paneling behind the two front wheel housings	Loosen until the bolts of the rear centering plate and bolts of the outer centering plate are accessible: ↓		
		Remove/install underfloor paneling.	AR61.30-P-1001GZ	
11	Remove bolts of front engine mount	Nm	*BA22.10-P-1001-03G	
12	Support front axle with major assembly lifting platform	Lifting platform for major assemblies/scissors- type pallet forklift gotis://A 01 07.1		
13	Remove bolts of front axle carrier and bolts of rear axle carrier (37)	Nm	*BA33.10-P-1001-01I	
14	Remove bolts of rear centering panel (39) and bolts of outer centering panel (43), remove centering panel (38)	Installation: Insert drift (40) in bores (arrow) and align front axle.         Im	*BA33.10-P-1002-01I *BA33.10-P-1003-01I *164589011500	
15	Lower front axle 2 " (inches) or 5 cm (centimeters)	<ul> <li>Drift set</li> <li>Lower front axle by a maximum of 3" (inches) or 7.5 cm (centimeters) in order to avoid damage to the steering coupling, lines and hoses.</li> </ul>		
16	Remove bearings of front axle carrier	<ul> <li>Risk of mixing up.</li> <li>The front and rear bearings are similar but are not of the same construction.</li> <li>The assistant must secure the special tool during the special operation.</li> <li>Special tool combination for removal: Extraction and insertion tool part A (02A)</li> <li>Extraction and insertion tool A B (02B)</li> <li>Guide sleeve (03f)</li> <li>Lead screw (03s)</li> <li>Shims (03w)</li> <li>Special tool combination for installation:</li> <li>Extraction and insertion tool part A (02A)</li> <li>Extraction and insertion tool part A (02A)</li> <li>Special tool combination for installation:</li> <li>Extraction and insertion tool part C (02C)</li> <li>Extraction and insertion tool part D (02D)</li> <li>Spacer sleeve (03f)</li> <li>Lead screw (03c)</li> </ul>		
		Lead screw (03s) Shims (03w) i Installing a <b>new</b> bearing is permissible. S Hollow cylinder (01z) Hand pump (01h)	*652589003322 *652589003321	

		Y Hydraulic hose (01s)	*652589003323
		S Extraction and insertion tool	*164589014300
		S Threaded spindle	*652589003311
		Antifriction agent	*BR00.45-Z-1010-06A
17	Install in the reverse order		
4	Checking		
18	Perform wheel alignment check		AR40.20-P-0200GZ
19	Check headlamp adjustment, correct if necessary	i Only if suspension components have been replaced.	n
₩ AP	Check and correct the adjustment of the headlamps		AP82.10-P-8260GZ

## **Nm** Engine mount, engine support (engine side)

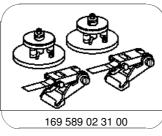
Number	Designation	Model 164
BA22.10-P-1001-03G	Bolt, front engine mount to front axle carrier Nrr	53

## <sup>Nm</sup> Front axle carrier

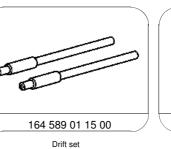
Number	Designation				Model 164.1/8 except 164.177	Model 164.177
BA33.10-P-1001-01I	Bolt, front axle carrier to longitudinal member	M14×1.5	Stage 1	Nm	100	130
			Stage 2	۲°	120	-
			Stage 3	۲°	-180	-180
			Stage 4	Nm	100	100
			Stage 5	٤°	90	90
BA33.10-P-1002-011	Bolt, stiffening plate to longitudinal member	M10		Nm	61	61
BA33.10-P-1003-01I	Bolt, stiffening plate to body	M8		Nm	31	31



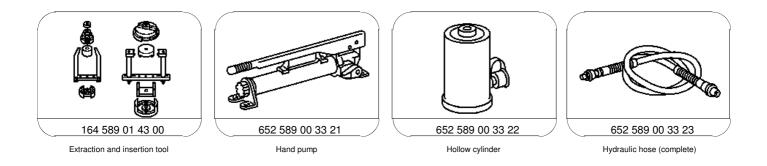
Engine lifting fixture



Vehicle lift safety device







## Repair materials

Number	Designation	Order number
BR00.45-Z-1010-06A	Antifriction agent	A 000 989 03 67