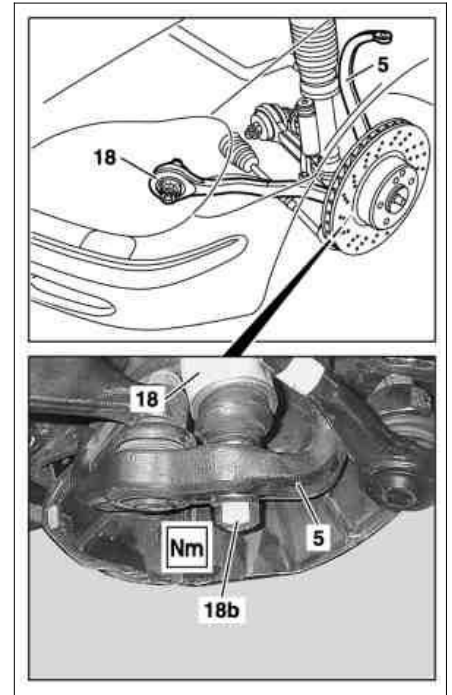


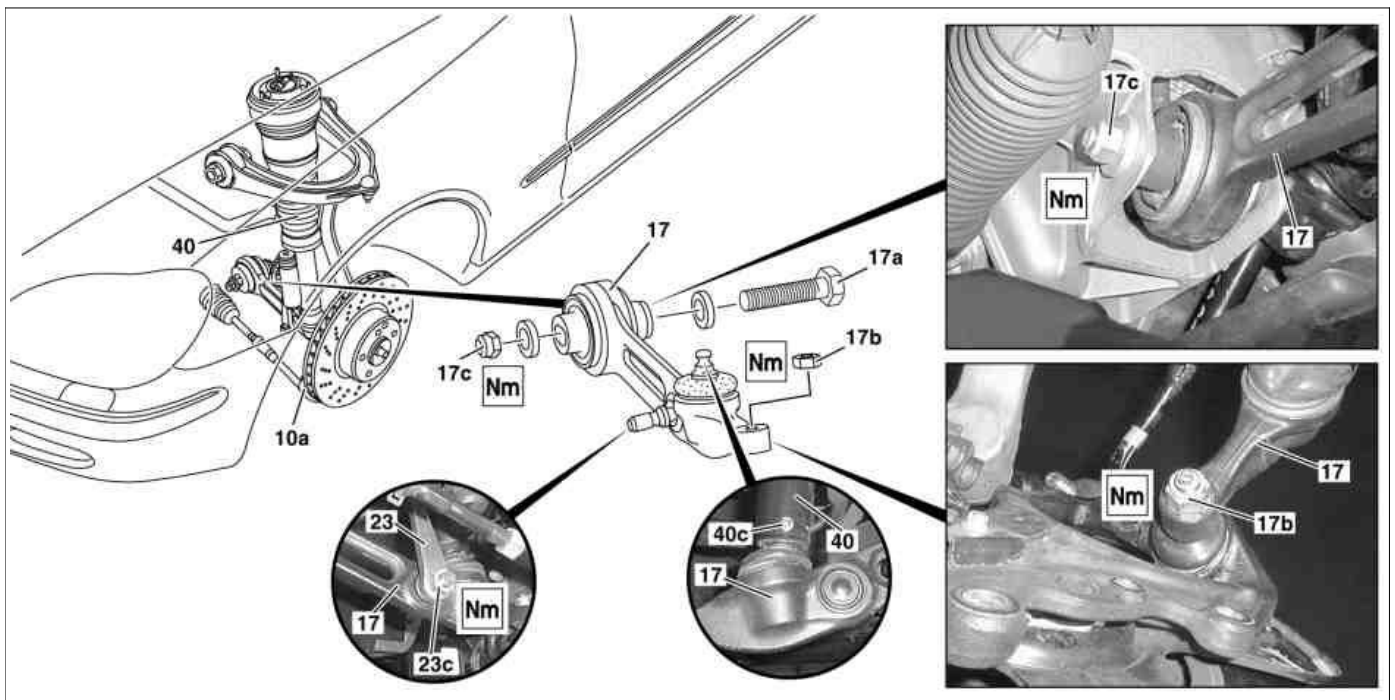
MODEL 215

MODEL 220 (except 220.08 /18 /87)
 except CODE (979) Special protection version
 except CODE (Z07) Top protection

- 5 Steering knuckle
- 18 Torque strut
- 18b Nut



P33.15-2060-03



P33.15-2008-09


Shown on spring control arm without thrust plates


- 17 Spring control arm
- 17a Screw
- 17b Self-locking nut
- 17c Nut
- 23 Link rod
- 23c Nut
- 40 Suspension strut
- 40c Bolts

Modification notes

17.8.04	Torque for nut on spring control arm on steering knuckle changed from 80 Nm to 50 Nm and 60 Δ° . Torque for nut, spring control arm to front axle carrier changed from 150 Nm to 80 Nm 120 Δ° .	Model 215 only Model 215 only	*BA33.20-P-1012-01A *BA33.20-P-1014-01A
9.12.04	If the rubber boot of the stabilizer bar pivot bushing is damaged, the stabilizer bar pivot bushing (and not the spring control arm) has to be replaced.	Operation steps 4.1, 10.1	

	Remove/install		
⚠ Danger!	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between four pillars of hoist and position four support plates at hoist mounting points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
	Notes on self-locking nuts and bolts		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	Raise vehicle with vehicle lift		
2 AP	Remove front wheel Remove/install wheels		AP40.10-P-4050Z
3	Detach torque strut (18) from steering knuckle (5)	<p> Installation: Install new nut (18b).</p> <p> Thrust piece</p> <p> Puller</p> <p> Press</p> <p> Check rubber boot on ball head of torque strut (18) for damage. If rubber boot is damaged, install new torque strut (18):</p> <p style="text-align: center;">↓</p> <p>Remove/install torque strut</p>	<p>AR33.15-P-0160-01I</p> <p>*140589006300</p> <p>*220589003300</p> <p>*163589034300</p> <p>AR33.15-P-0160I</p>
4.1	Unscrew nut (23c) and pry link rod (23) off spring control arm (17).	<p>Vehicles with AIRmatic (semi-active air suspension), code 489</p> <p> Installation: Press link rod (23) onto hexagon of stabilizer bar pivot bushing at spring control arm (17).</p> <p></p> <p> Check rubber boot of stabilizer bar pivot bushing of link rod (23) at spring control arm (17) for damage, install new stabilizer bar pivot bushing if necessary: ↓</p> <p>Fit new stabilizer bar pivot bushing.</p>	<p>*BA32.20-P-1001-02H</p> <p>AR32.20-P-0310M</p>
5	Remove bolts (40c) from spring strut (40)	<p> Installation: After tightening the bolts (40c) must be flush with the suspension strut (40) or slightly recessed.</p> <p></p>	*BA32.25-P-1002-04B
6	Using a suitable lever, loosen spring strut (40) at ball joint	Check rubber boot of ball joint for damage and install new spring control arm (17) if necessary.	
7	Press spring control arm (17) out of steering knuckle (5)	<p> Installation: Replace self-locking nut (17b).</p> <p> Thrust piece</p> <p> Puller</p> <p> Press</p> <p> Model 215</p> <p> Model 220</p>	<p>AR33.15-P-0170-01I</p> <p>*140589006300</p> <p>*220589003300</p> <p>*163589034300</p> <p>*BA33.20-P-1012-01A</p> <p>*BA33.20-P-1005-01F</p>
8.1	Remove the pressure-supply circuit's valve body from the right side of the front subframe and tie it to one side	Vehicles with Active Body Control (ABC) code 487, when removing right spring control arm (17).	
9	Remove track control arm (17) from front subframe.	<p> Do not twist bolt (17a). Always counter the bolt (17a) when slackening the nut (17c), otherwise the locating tabs for camber adjustment in the rubber bushing of spring control arm (17) will be sheared off.</p> <p> Installation: Screw nut (17c) all the way onto bolt (17a) but do not tighten, so that the rubber bushing of spring control arm (17) can turn when the suspension is compressed. Do not tighten nut (17c) until in ready-to-drive condition.</p> <p> Model 215</p> <p> Model 220</p>	<p>*BA33.20-P-1014-01A</p> <p>*BA33.20-P-1001-01F</p>
	Checking		
10.1	Check rubber boot of stabilizer bar pivot bushing at spring control arm (17) for damage.	<p> If rubber boot is damage, install new stabilizer bar pivot bushing: ↓</p> <p>Fit new stabilizer bar pivot bushing.</p>	AR32.20-P-0310M

11	Check rubber bushing in spring control arm (17) for damage.	Replace rubber mount if necessary: ↓ Extract/press in rubber mount on spring control arm. ☒ Extraction and insertion tool ☒ Puller Stationary workshop press 65 t Model 215, 220	AR33.15-P-0170-02I *220589064300 *124589043300 BT33.15-P-0001-01A
	 BT	Rubber mount on spring control arm with thrust plates	
12	Install in the reverse order		
13	Perform wheel alignment check		AR40.20-P-0200I

 Front axle stabilizer bar

Number	Designation		Models 220 except 220.083/ 084/087/ 183/184/ 187
BA32.20-P-1001-02H	Nut, link rod to spring control arm	Nm	150

 Suspension struts

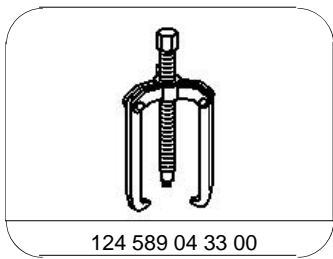
Number	Designation		Model 215	Model 220.025/026/028/063/ 065/067/070/073/074/ 075/125/126/128/163/ 165/167/170/173/174/ 175/176/178/179
BA32.25-P-1002-04B	Bolt, front suspension strut to spring control arm	Nm	20	20

 Wheel location, hub

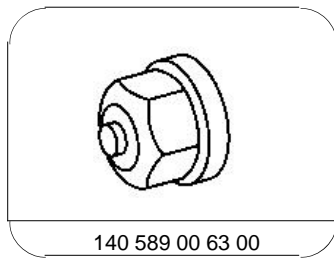
Number	Designation		Model 215
BA33.20-P-1012-01A	Self-locking nut, track control arm to stub axle	Stage 1	Nm 50
		Stage 2	⌘° 60
BA33.20-P-1014-01A	Self-locking nut, spring control arm to front axle carrier	Stage 1	Nm 80
		Stage 2	⌘° 120

 Wheel location, hub

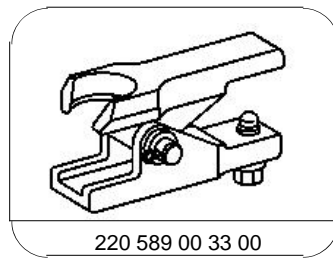
Number	Designation	Model 220 without code Z07 except model 220.08/18 /8		
BA33.20-P-1001-01F	Self-locking nut, spring control arm to front axle carrier	Stage 1	Nm	80
		Stage 2	Δ°	120
BA33.20-P-1005-01F	Self-locking nut, track control arm to stub axle	Stage 1	Nm	50
		Stage 2	Δ°	60



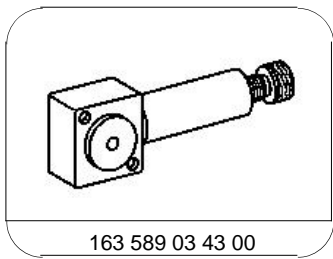
Puller



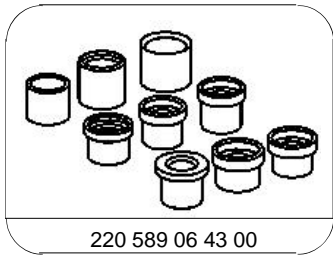
Thrust piece



Puller



Press



Press out/in tool