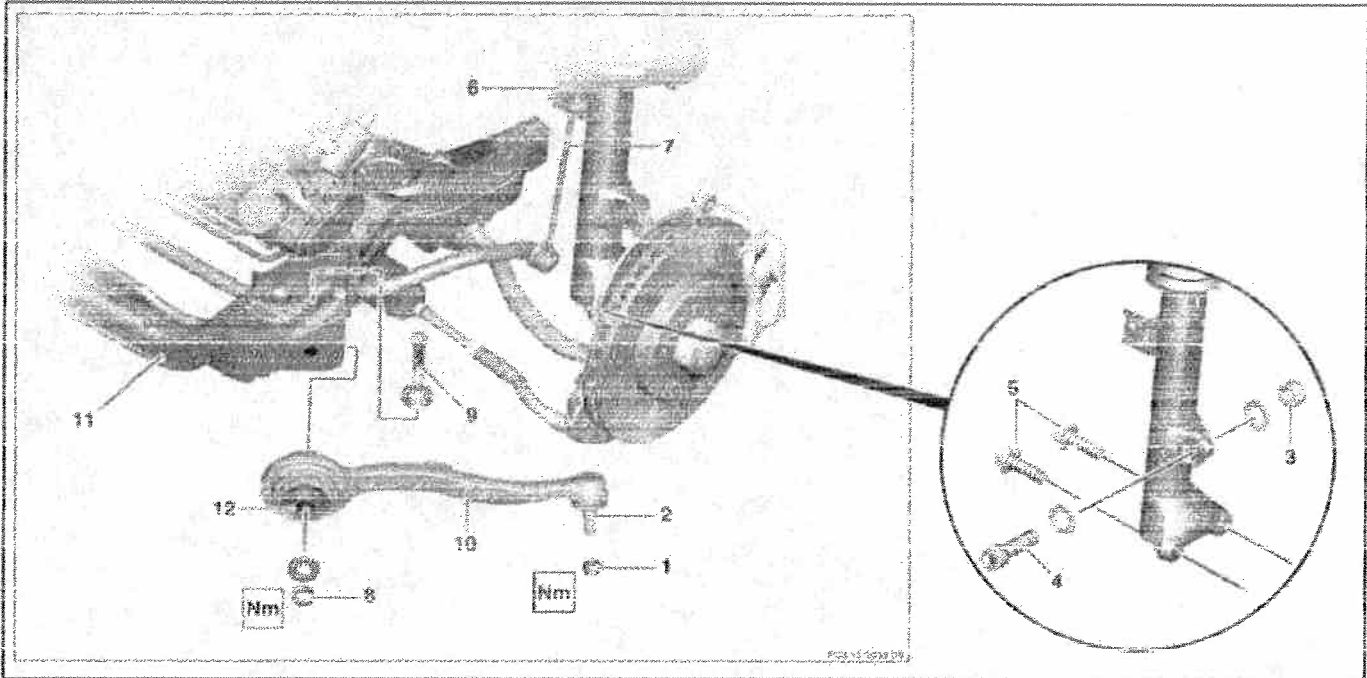
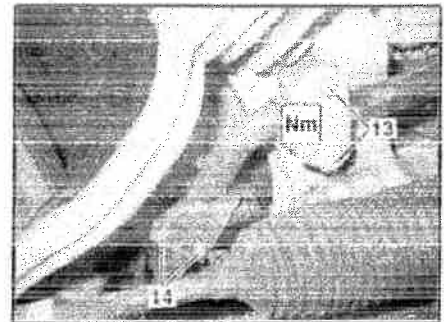


MODEL 203, 209 (except 203.081 /084 /281 /284)



P33.15-2037-00

- 1 Nut
- 2 Spherical bolt
- 3 Nut, wheel carrier at the top
- 4 Screw
- 5 Bolts, wheel carrier at the bottom
- 6 Nut
- 7 Link rod
- 8 Nut
- 9 Screw
- 10 Torque strut
- 11 Front axle carrier
- 12 Rubber bushing
- 13 Bolts
- 14 Nuts



P32.20-2162-01

	<b>Remove/install</b>		
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	<b>Danger!</b> Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between the columns of the lifting platform and position the four support plates at the lifting platform support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
1	Raise vehicle.		AR00.60-P-1000P
2	Remove wheel.		
	Remove/install wheels, rotate if necessary		AP40.10-P-4050Z
3	Unscrew nut (1)	Self-locking nut, radius rod to steering knuckle assembly	*BA33.20-P-1004-01E
4	Press ball head bolt (2) out of the wheel carrier	Puller Thrust piece	*171589003300 *171589003400
5	Unscrew nut of upper wheel carrier (3)		

6	Take out bolt (4)	Model 203 <input type="checkbox"/> Self-locking nut of suspension strut to upper steering knuckle Model 209 <input type="checkbox"/> Self-locking nut of suspension strut to upper steering knuckle	*BA32.25-P-1010-01B  *BA32.25-P-1002-01E
7	Unscrew bolts of lower wheel carrier (5)	Model 203 <input type="checkbox"/> Self-locking bolt of suspension strut to lower steering knuckle Model 209 <input type="checkbox"/> Self-locking bolt of suspension strut to lower steering knuckle	*BA32.25-P-1008-01B  *BA32.25-P-1003-01E
8	Unscrew nut (6)	<input type="checkbox"/> Self-locking nut, connecting rod to spring strut	*BA32.20-P-1004-02B
9	Remove link rod (7)	<input type="checkbox"/> Self-locking nut, link rod to stabilizer bar	*BA32.20-P-1002-02B
10	Detach stabilizer bar on front axle beam, to do so undo bolts (13) on stabilizer bar	<input type="checkbox"/> right and left side  <input type="checkbox"/> Bolt, torsion bar retaining bracket to front axle carrier	*BA32.20-P-1009-02B
11.1	Remove headlamp range adjustment sensor, to do so undo nuts (14)	Only for bi-xenon headlamp unit, code 614	
12	Unscrew nut (8)	<input type="checkbox"/> Self-locking nut, torque strut to front axle carrier	*BA33.20-P-1007-01E
13	Remove bolt (9)		
14	Remove torque strut (10)	<input type="checkbox"/> Use assembly lever to pry off the front axle carrier (11). <input type="checkbox"/> Installation: Turn in nut (8) up to stop, but do not yet tighten, so that the rubber mount (12) of the torque strut (10) can twist when rocking the vehicle to settle suspension. Do not tighten nut (8) until in ready-to-drive condition.	
<input type="checkbox"/>	<b>Check</b>		
15	Inspect radius rod (10) for visible signs of damage or deformation.		
16	Check rubber mount (12)	<input type="checkbox"/> For cracked or porous rubber mounts (12) either the rubber mount (12) or the complete torque strut must be replaced, as otherwise a faulty chassis and suspension geometry may be configured. For model 203 up to vehicle ident. end number A033999, F018699, R000999 the torque strut (10) must be replaced, if damage to the rubber mount is determined. For model 203 as from vehicle ident. end number A034000, F018700, R001000, model 209 the rubber mounts can be individually replaced. See ↓ Press torque strut rubber bushing in/out <input type="checkbox"/> Extraction and insertion tool	AR33.15-P-0160-02P *220589064300
17	Install in the reverse order		

Front axle torsion strut

Number	Designation	Model 203 except 203.081/084/281/284	Model 209

BA32.20-P-1002-02B	Self-locking nut, link rod to torsion bar	M10	Nm	60	-
		M10x1.5	Nm	-	55
		M12x1.5	Nm	-	100
		M14x1.5	Nm	-	-
BA32.20-P-1004-02B	Self-locking nut, link rod to suspension strut	M10	Nm	60	-
		M10x1.5	Nm	-	55
		M12x1.5	Nm	-	100
		M14x1.5	Nm	-	-
BA32.20-P-1009-02B	Bolt of stabilizer bar retaining bracket to front axle carrier	1st stage	Nm	40	25
		2nd stage	∠°	-	-

**Front axle shock absorber**

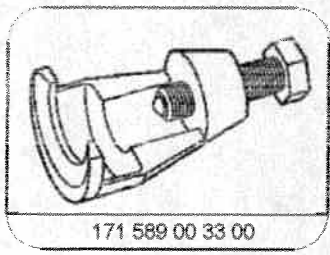
Number	Designation		Model 203 without 4MATIC
BA32.25-P-1008-01B	Self-locking bolt, suspension strut to steering knuckle at bottom	Nm	110
BA32.25-P-1010-01B	Self-locking nut, suspension strut to steering knuckle at top	1st stage	Nm 120
		Step 2	∠° 90

**Front axle shock absorber**

Number	Designation		Model 209
BA32.25-P-1002-01E	Self-locking nut, suspension strut to steering knuckle at top	1st stage	Nm 120
		2nd stage	∠° 90
BA32.25-P-1003-01E	Self-locking bolt, suspension strut to steering knuckle at bottom	Nm	110

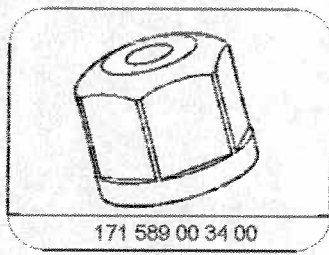
**Wheel location, hub**

Number	Designation		Model 203 except 203.081/ 084/281/ 284	Model 209
BA33.20-P-1004-01E	Self-locking nut, radius rod to steering knuckle	1st stage	Nm 80	50
		2nd stage	∠° -	60
BA33.20-P-1007-01E	Self-locking nut, radius rod to front axle carrier	1st stage	Nm 150	80
		2nd stage	∠° -	120



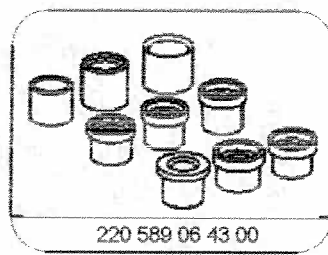
171 589 00 33 00

Puller



171 589 00 34 00

Thrust piece

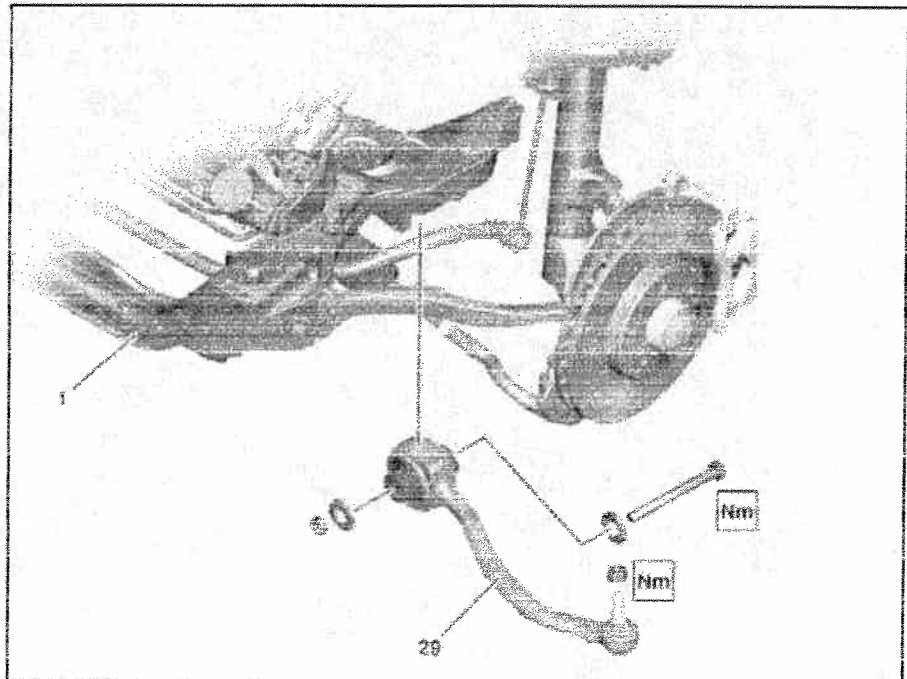


220 589 06 43 00

Extraction and press-in tools

MODELS 203 (except 203.081 /084 /281 /284)

MODELS 209



P33.20-2030-06

## Modification notes

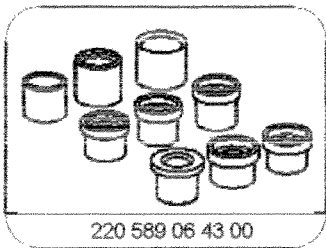
15.3.04	The vehicle must have a chassis alignment check after installing the cross strut	Step 9	
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	Remove/Install		
<b>Danger!</b>	<b>Risk of death</b> caused by vehicle slipping or tipping off of the lifting platform.	Align vehicle between the columns of the lifting platform and position the four support plates at the lifting platform support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
1	Raise vehicle.		AR00.60-P-1000P
2	Remove front wheel Remove/install wheels, rotate if necessary		AP40.10-P-4050Z
3	Detach cross strut (29) from steering knuckle	Use a suitable drift punch to drive the ball pin from the steering knuckle assembly. 	*BA33.20-P-1005-01E
4	Unscrew the bolt of the cross strut (29) at the front axle carrier (1)		*BA33.20-P-1006-01E
5	Remove transverse link (29).	Loosen cross strut (29) from the front axle carrier (1) using an assembly lever.	
	Check		
6	Inspect transverse link (29) for visible signs of damage or deformation.	On accident vehicles: ↓  Measure cross strut (29).	

7	Check rubber bushing in transverse link (29).	<input type="checkbox"/> To replace damaged rubber bushing refer to: ↓ Rubber bushing in transverse link, removal and installation <input checked="" type="checkbox"/> Extraction and insertion tool Workshop press	AR33.15-P-0161-01P *220589064300 *WE58.40-Z-1001-12A
8	Install in the reverse order		
9	Perform chassis alignment		AR40.20-P-0200P

**Nm** Wheel location, hub

Number	Designation		Model 203 except 203.08 i/ 084/28 i/ 284	Model 209
BA33.20-P-1005-01E	Self-locking nut, transverse link to steering knuckle assembly	1st stage	Nm 80	50
		Step 2	∠° -	60
BA33.20-P-1006-01E	Self-locking nut, cross strut to front axle carrier		Nm 150	150



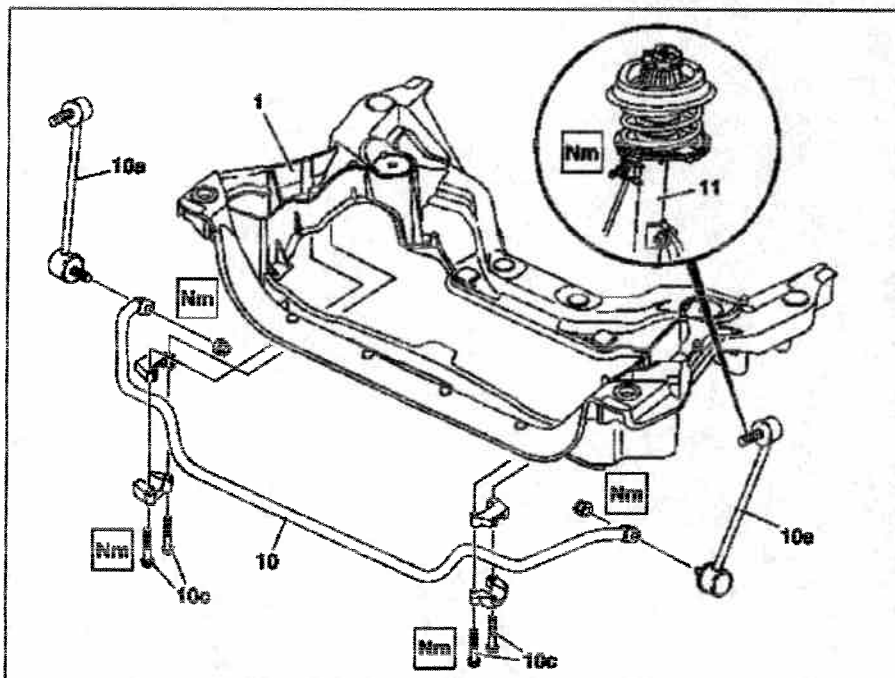
Extractor and insertion tools

**Workshop equipment/MB testers (see Workshop Equipment Manual)**

WE58.40-Z-1001-12A	Stationary workshop press 65 t, e.g. Messrs. Matra-Werke GmbH, D-60314 Frankfurt/Main
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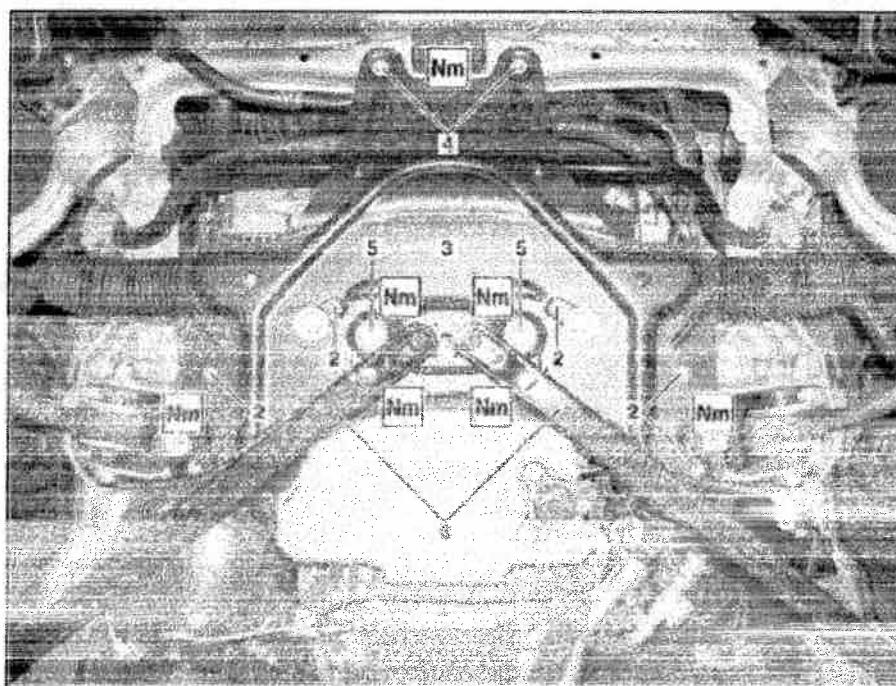
MODEL 203 / / / , 209.3 / 4 (except 203.081 / 084 / 281 / 284)

Shown on model 203



P32.35-2002-06

Shown on model 209.4






















P33.10-2218-06

Modification notes

22.1.03	Value changed from 20 Nm to 25 Nm	Figure changed in BA32.20-P-1003-02B for model 203.081/084/281/284	*BA32.20-P-1003-02B
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	Remove		
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 <b>Danger!</b>	<b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between the columns of the lifting platform and position the four support plates at the lifting platform support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
1	Raise vehicle.		AR00.60-P-1000P
2.1	Remove underfloor panels	Model 209.4	
3.1	Remove diagonal struts (6) on front axle carrier	Model 209.4  Undo bolts of diagonal struts (6) on front axle carrier and on underbody.	
4.1	Remove stiffening plate (3)	Model 209.4  Undo bolts (2, 4, 5) and remove stiffening plate (3).	
5	Detach stabilizer bar (10) from the linkage rods (10a)	 Ensure that the rubber boot is not twisted or damaged.  Counter the ball head bolts on the link rods (10a).	
6	Detach stabilizer bar (10) from front axle carrier		
	<b>Check</b>		
7	Detach rubber mount of stabilizer bar (10), check	 rubber mounts, replace if necessary.	
	<b>Install</b>		
8	Install stabilizer bar (10) on to front axle carrier	 Do not use grease or sliding compound so as not to damage the rubber mount. 	*BA32.20-P-1003-02B
9	Install stabilizer bar (10) on to the linkage rods (10a)	 Counter the ball head bolts on the link rods (10a). 	*BA32.20-P-1002-02B
10.1	Install stiffening plate (3)	Model 209.4  Mount stiffening plate (3) and turn in bolts (2, 4, 5). 	*BA33.10-P-1002-01H
11.1	Install diagonal struts (6) on to front axle carrier	Model 209.4  Only place bolts up against diagonal struts (6), to avoid distortion of the suspension.	
12.1	Install underfloor paneling	Model 209.4	
13	Lower vehicle		AR00.60-P-1000P
14.1	Tighten bolts on diagonal strut (6)	Model 209.4  When tightening the bolts to the diagonal struts (6) make sure that the vehicle has been set down on its wheels. 	*BA62.30-P-1004-01A

 **Front axle torsion strut**

Number	Designation			Model 203	Model 209
				except 203.081 / 084/281 / 284	
BA32.20-P-1002-02B	Self-locking nut, link rod to torsion bar	M10	Nm	60	-
		M10x1.5	Nm	-	55
		M12x1.5	Nm	-	100
		M14x1.5	Nm	-	-
BA32.20-P-1003-02B	Self-locking nut, stabilizer bar bracket to front axle carrier		Nm	40	-



**Front axle carrier**

Number	Designation			Model 209.3	Model 209.4
BA33.10-P-1002-01H	Bolt, stiffening plate to front axle carrier	M6	Nm	12	12
		M8	Nm	-	40
		M12	Nm	140	140

**Cross member and front reinforcement**

Number	Designation		Model 209.4
BA62.30-P-1004-01A	Bolt, diagonal strut	Nm	80