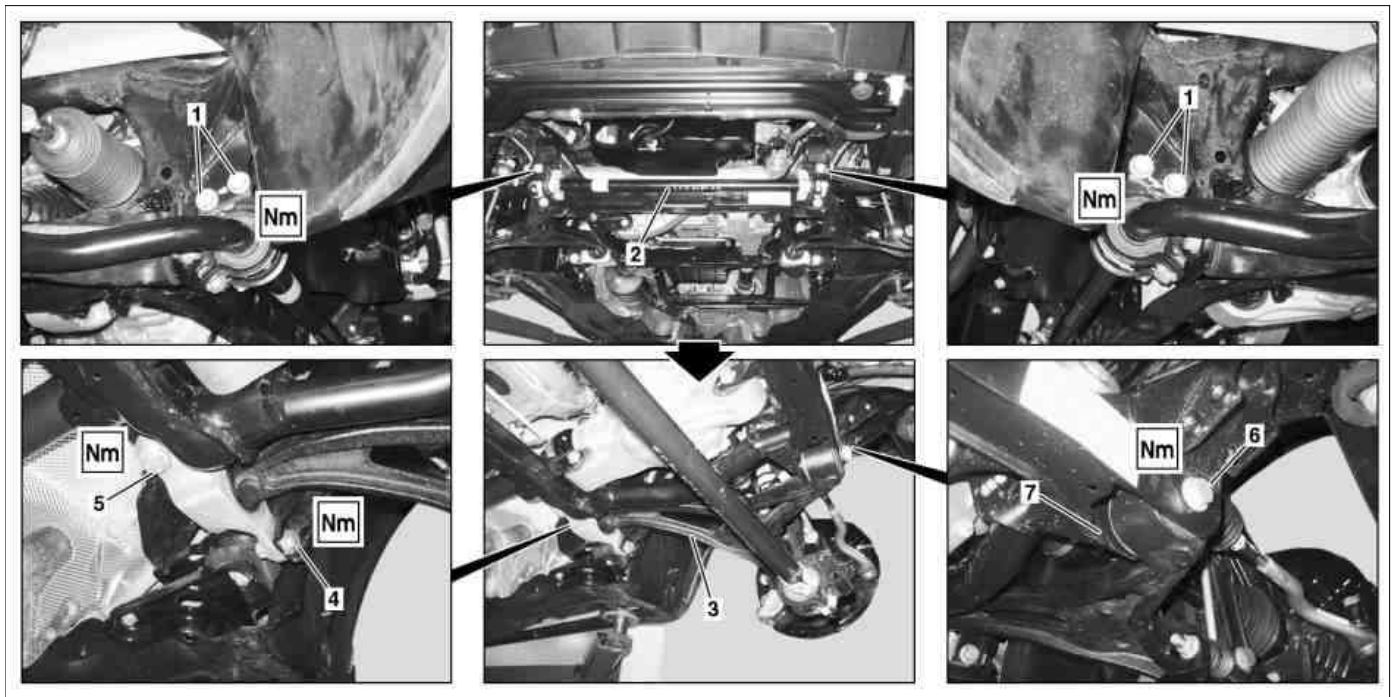


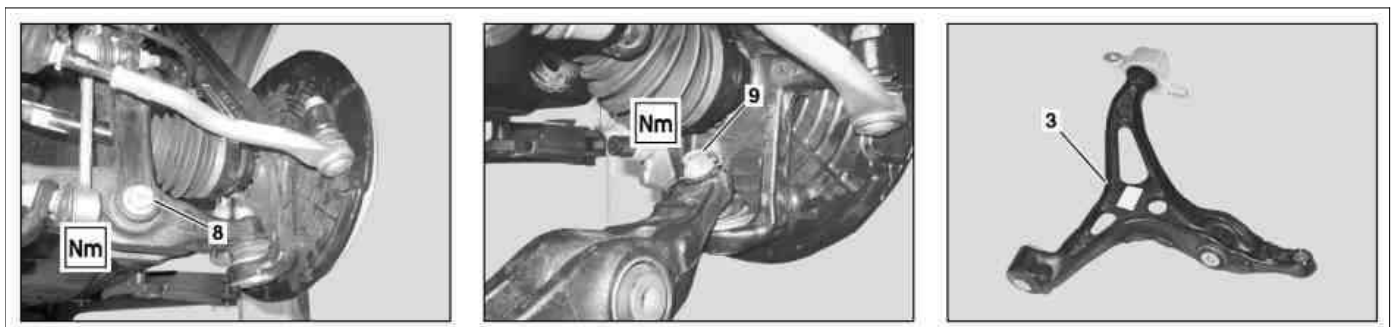
Model 164, 166, 292



P33.20-2150-09

Shown on model 164

- 1 Bolts
- 2 Torsion bar
- 3 Lower control arm
- 4 Screw
- 5 Screw
- 6 Screw
- 7 Shim





















P33.20-2151-07

Shown on model 164

- 3 Lower control arm
- 8 Screw
- 9 Nut

<p><b>⚠ Danger!</b></p>	<p><b>Risk of death</b> caused by vehicle slipping or toppling off of the lifting platform.</p>	<p>Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.</p>	<p>AS00.00-Z-0010-01A</p>
<p><b>⚠ Danger!</b></p>	<p><b>Risk of injury</b> from engine start by remote start function</p>	<p>Prior to starting work, open engine hood, do not reach into rotation range or hazard area of freely rotating parts, wear closed and snug-fitting work clothes</p>	<p>AS00.00-Z-0024-01A</p>

 <b>Danger!</b>	<b>Risk of injury.</b> Moving parts can pinch, crush or, in extreme cases even sever extremities.	No parts of the body or limbs should be within the operating area of mechanical components when moving components.	AS00.00-Z-0009-01A
 <b>Danger!</b>	<b>Risk of death</b> 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 wear electronic implants (e.g. cardiac pacemakers), must <b>not</b> carry out any work on high-voltage on-board electrical systems.	AS54.00-Z-0001-01A
	Notes on self-locking nuts and bolts		AH00.00-N-0001-01A
	Notes on repair work on suspension components		AH00.00-P-0100-01A
	Notes on AIRmatic		AH32.22-P-1000-02GZ
	<b>Remove/install</b>		
1	Hoist vehicle with lifting platform until wheels are free		AR00.60-P-1000GZ
2 	Empty AIRmatic using diagnostic system	Model 164, 166, 292 with code 489 (AIRMATIC)   AIRmatic must be emptied and filled as per the specifications; the complete wheels must not be touching the ground. The air springs can otherwise be damaged and fail later.	AD00.00-P-2000-04A
3	Switch off ignition and keep transmitter key at a location beyond transmitter range (at least 2 m)		
4  	Detach front wheel and tire assembly	Model 292 Model 164 Model 166	AR40.10-P-1100GQC AP40.10-P-4050Z AP40.10-P-4050EW
5.1	Remove bottom engine compartment paneling	Model 164 with engine 113, 156, 272, 273	AR61.20-P-1105GZ
5.2	Remove bottom section of soundproofing	Model 164 with engine 629, 642	AR94.30-P-5300GZ
5.3	Remove corresponding underfloor paneling	Model 166, 292	AR61.30-P-1001GQ
6	Remove bolts (1) and swivel torsion bar (2) downwards	 <b>Installation:</b> Apply final torque only after the vehicle is on the measuring platform or when the vehicle is in a neutral position. Otherwise, the elastomer bearing will be stretched.  The torsion bar (2) must be carefully disassembled, as it is under tension.  Model 164.1/8Bolt, stabilizer bar bracket to axle/engine subframe  Model 166 except code 468 (Active driving stability (stability)) Model 166 with code 468 (Active driving stability (stability)) Model 292 except code 468 (ACTIVE CURVE SYSTEM) Model 292 with code 468 (ACTIVE CURVE SYSTEM)Screw/bolt, torsion bar bracket/ torsion bar to front axle carrier	*BA32.35-P-1001-01B  *BA32.20-P-1001-02Q
7	Apply color marking to installation position of rear bearing bracket of lower control arm (3) relative to front axle carrier		
8	Unscrew bolts (4, 5)	 <b>Installation:</b> Apply final torque only after the vehicle is on the measuring platform or when the vehicle is in a neutral position. Otherwise, the elastomer bearing will be stretched.  <b>Installation:</b> For alignment purposes the markings must be noted, and transferred to new parts when new parts are installed, to enable the original adjustment position to be approximately reached.  Model 164.1/8Bolt, lower transverse control arm at inside rear to front axle carrier  Model 164.1/8Bolt, lower transverse control arm at outside rear to front axle carrier	*BA33.20-P-1005-01J  *BA33.20-P-1007-01J

		<p> Model 166, 292Nut, lower control arm at bottom rear to front axle carrier</p> <p> Model 166, 292Screw/bolt, lower transverse control arm at outside rear to front axle carrier</p>	<p>*BA33.20-P-1005-01R</p> <p>*BA33.20-P-1007-01R</p>
9	Remove bolt (6)	<p> <b>Installation:</b> Apply final torque only after the vehicle is on the measuring platform or when the vehicle is in a neutral position. Otherwise, the elastomer bearing will be stretched.</p> <p> <b>Installation:</b> The installation position of the shim (7) in the shown position must be observed.</p> <p> Model 164.1/8Self-locking nut, lower front transverse control arm to front axle carrier</p> <p> Model 166, 292Screw/bolt, lower transverse control arm at front to front axle carrier</p>	<p>*BA33.20-P-1004-01J</p> <p>*BA33.20-P-1004-01R</p>
10	Unscrew bolt (8)	<p> <b>Installation:</b> Apply final torque only after the vehicle is on the measuring platform or when the vehicle is in a neutral position. Otherwise, the elastomer bearing will be stretched.</p> <p> Model 164.1/8Self-locking nut, shock absorber to wishbone</p> <p> Model 166, 292Self-locking nut, shock absorber to wishbone</p>	<p>*BA32.25-P-1002-01G</p> <p>*BA32.25-P-1002-01O</p>
11	Unscrew nut (9) and detach lower control arm (3) from supporting ball joint	<p> Model 164.1/8Self-locking nut, supporting joint to lower transverse control arm</p> <p> Model 166, 292Self-locking nut, supporting joint to lower transverse control arm</p> <p> Tool kit</p>	<p>*BA33.20-P-1003-01J</p> <p>*BA33.20-P-1003-01R</p> <p>*000589109900</p>
12	Remove lower control arm (3)		
13	Install in the reverse order		
14	Perform wheel alignment check	<p>Model 164</p> <p>Model 166, 292</p>	<p>AR40.20-P-0200GZ</p> <p>AR40.20-P-0200GQ</p>

Front axle torsion bar

Number	Designation			Model 166 except code 468 (ACTIVE CURVE SYSTEM)	Model 166 with code 468 (ACTIVE CURVE SYSTEM)
		BA32.20-P-1001-02Q	Screw/bolt, torsion bar bracket/torsion bar to front axle carrier	Stage 1	Nm
		Stage 2	∠°	-	45

Front axle torsion bar

Number	Designation			Model 292 except code 468 (ACTIVE CURVE SYSTEM)	Model 292 with code 468 (ACTIVE CURVE SYSTEM)
		BA32.20-P-1001-02Q	Screw/bolt, torsion bar bracket/torsion bar to front axle carrier	Stage 1	Nm
		Stage 2	∠°	-	45

Front axle shock absorber

Number	Designation		Model 164.1/8
BA32.25-P-1002-01G	Self-locking nut, shock absorber to wishbone	Nm	265=195.4 ft. lbs.

Front axle shock absorber

Number	Designation	Model 166	Model 292

BA32.25-P-1002-01O	Self-locking nut, shock absorber to wishbone	Stage 1	Nm	100=73.75 ft. lbs.	100
	<a href="#">Torque Angle Gauge needed for Stage 2</a>	Stage 2	∠°	180	180

**Nm** Stabilizer

Number	Designation	Model 164.1/8
BA33.35-P-1001-01B	Bolt, stabilizer bar bracket to axle/engine subframe	Nm 50=36.8 ft. lbs.

**Nm** Wheel control, hub

Number	Designation	Model 164.1/8
BA33.20-P-1003-01J	Self-locking nut, supporting joint to lower transverse control arm	Nm 230=169.6 ft. lbs.

**Nm** Wheel control, hub

Number	Designation	Model 166	Model 292	
BA33.20-P-1003-01R	Self-locking nut, supporting joint to lower transverse control arm	Stage 1	Nm 80=59 ft. lbs.	80
		<a href="#">Torque Angle Guage needed for Stage 2</a>	Stage 2	∠° 90

**Nm** Wheel control, hub

Number	Designation	Model 164.1/8
BA33.20-P-1004-01J	Self-locking nut, lower front transverse control arm to front axle carrier	Nm 270=199.1 ft. lbs.

**Nm** Wheel control, hub

Number	Designation	Model 166	Model 292	
BA33.20-P-1004-01R	Screw/bolt, lower transverse control arm at front to front axle carrier	Stage 1	Nm 120	120
		<a href="#">Torque Angle Guage needed for Stage 2</a>	Stage 2	∠° 90

**Nm** Wheel control, hub

Number	Designation	Model 164.1/8
BA33.20-P-1005-01J	Bolt, lower transverse control arm at inside rear to front axle carrier	Nm 220=162.2 ft. lbs.

**Nm** Wheel control, hub

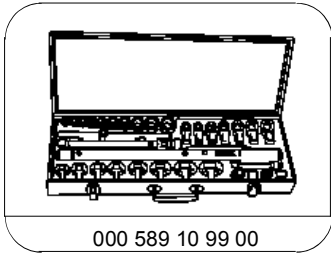
Number	Designation	Model 166	Model 292	
BA33.20-P-1005-01R	Nut, lower control arm at bottom rear to front axle carrier	Stage 1	Nm 65	65
		<a href="#">Torque Angle Guage needed for Stage 2</a>	Stage 2	∠° 90

**Nm** Wheel control, hub

Number	Designation	Model 164.1/8
BA33.20-P-1007-01J	Bolt, lower transverse control arm at outside rear to front axle carrier	Nm 180=132.7 ft. lbs.

**Nm** Wheel control, hub

Number	Designation	Model 166	Model 292	
BA33.20-P-1007-01R	Screw/bolt, lower transverse control arm at outside rear to front axle carrier	Stage 1	Nm 130	130
		<a href="#">Torque Angle Guage needed for Stage 2</a>	Stage 2	∠° 45



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Tool kit