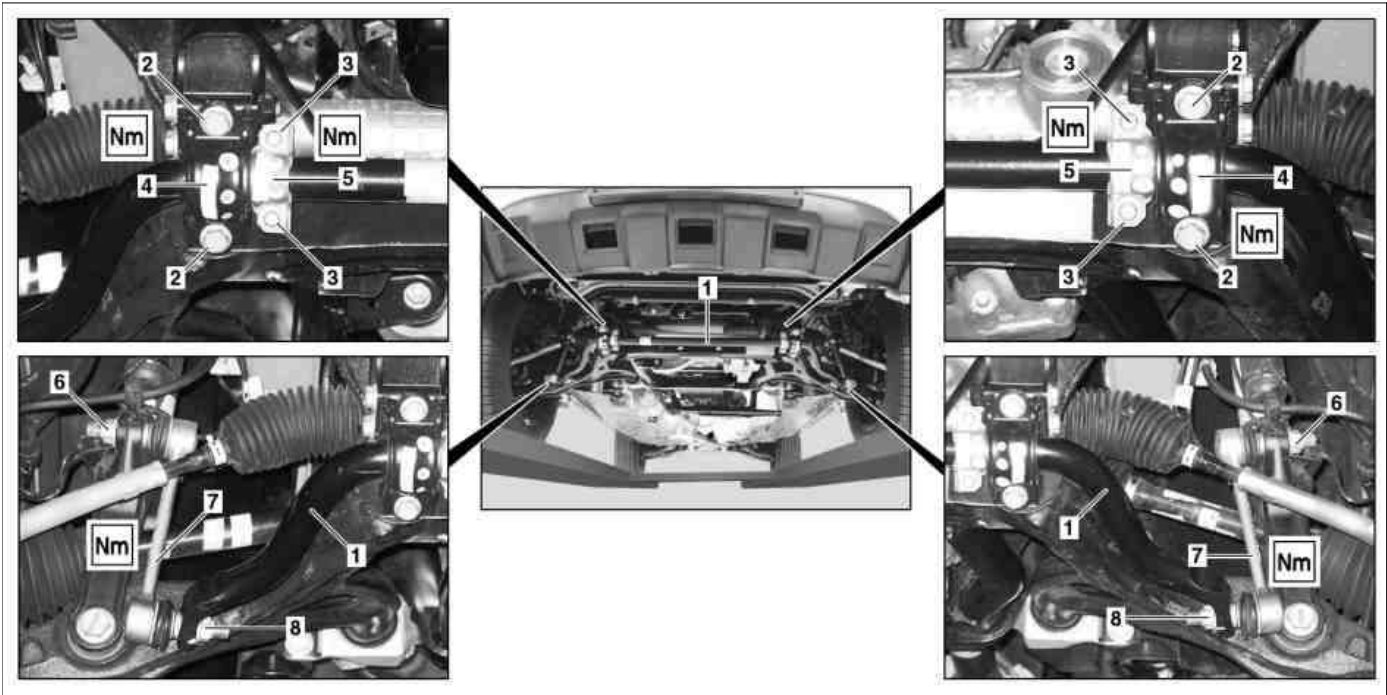


## MODEL 164



P32.20-2136-09

Airmatic (air suspension with level adjustment and Adaptive Damping System ADS), code 489. For better overview shown with engine compartment paneling at the bottom or soundproofing removed

- |   |                                     |   |                                      |
|---|-------------------------------------|---|--------------------------------------|
| 1 | Stabilizer bar                      | 5 | Retaining clamps for torsion bushing |
| 2 | Bolts                               | 6 | Nuts                                 |
| 3 | Bolts                               | 7 | Link rods                            |
| 4 | Retaining clamps for stabilizer bar | 8 | Nuts                                 |

## Modification notes

11.7.06	Bolt, stabilizer bar retaining clamp to bearing bracket Bolt, torsion bushing retaining clamp Nut, link rod to stabilizer bar		*BA32.20-P-1001-02L *BA32.20-P-1002-02L *BA32.20-P-1004-02L
6.9.06	Nut, link rod to stabilizer bar		*BA32.20-P-1004-02L

	<b>Removing</b>		
<b>Danger!</b>	<b>Risk of injury</b> caused by <b>pinching or crushing</b> when working on springs or spring bodies that are under tension	Use only approved tensioning devices; shield off hazard area if necessary. Inspect special tools for damage and proper operation (visual inspection). Wear protective gloves.	AS00.00-Z-0001-01A
<b>Danger!</b>	<b>Risk of injury</b> caused by moving parts that can <b>pinch, crush</b> or, in extreme cases, even <b>sever</b> extremities	No parts of the body or limbs should be within the operating range of the mechanism when moving components.	AS00.00-Z-0009-01A
<b>Danger!</b>	<b>Risk of death</b> 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
	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	Raise vehicle using drive-on lifting platform		
2.1	Detach lower engine compartment paneling	Vehicles with gasoline engine	AR61.20-P-1105GZ
2.2	Remove soundproofing	Vehicles with diesel engine	AR94.30-P-5300GZ
3	Mark positioning of torsion bar retaining clamps (4) and retaining clamps for torsion bushings (5) on torsion bar (1)		
4.1	Unscrew nuts (8) of link rods (7) and detach link rods (7) from stabilizer bar (1)	Only if link rods (7) are obviously undamaged.	

4.2	Unscrew nuts (6) of link rods (7) and detach link rods (7) from front shock absorbers	Only if link rods (7) are obviously defective.	
5	Remove bolts (2) of stabilizer bar retaining clamps (4) and detach both stabilizer bar retaining clamps (4)	Detach the stabilizer bar retaining clamps (4) carefully as the stabilizer bar (1) is under tension.	
6	Remove stabilizer bar (1) from front axle carrier		
7	Remove bolts (3) of torsion bushing retaining clamps (5) and detach torsion bushings from torsion bar (1)	Only if a new torsion bar (1) or new torsion bushings are being installed. Mark installation positions.	
8	Detach link rods (7) from stabilizer bar (1)	Only if the link rods (7) have not been detached from the torsion bar (1).	
	<b>Checking</b>		
9	Check link rods (7) and torsion bushings for damage	Replace if necessary.	
	<b>Install</b>		
<b>Installation</b>	Only tighten nuts and bolts of chassis components when vehicle is in a ready-to-drive condition.		
10	Attach link rods (7) to stabilizer bar (1)	Only if new link rods (7) are being fitted. Do not tighten the nuts (8) yet.	
11	Attach torsional bearings to torsion bar (1) and preassemble bolts (3) with nuts to torsion bushing retaining clamps (5)	Only if a new torsion bar (1) or new torsion bushings are being installed. Transfer the previously made markings to the new stabilizer bar (1). Align the torsion bushing retaining clamps (5) with the markings. Do not tighten nuts of bolts (3) yet.	
12	Position stabilizer bar (1) on front axle carrier, mount stabilizer bar retaining clamps (4) and insert bolts (2)	Observe previous markings. Align torsion bar retaining clamps (4) to marks. The bent ends of the stabilizer bar (1) must point downward. Do not tighten bolts (2) yet.	
13.1	Mount link rods (7) onto front shock absorbers and screw on nuts (6)	Only if new link rods (7) have been fitted. Do not tighten the nuts (6) yet.	
13.2	Mount link rods (7) onto stabilizer bar (1) and screw on nuts (8)	Only if the link rods (7) were not previously removed. Do not tighten the nuts (8) yet.	
14	Make sure that stabilizer bar (1), torsion bushing retaining clamps (5) and stabilizer bar retaining clamps (4) are positioned correctly	Realign if necessary.	
15	Fully tighten bolts (3)		*BA32.20-P-1002-02L
16	Fully tighten bolts (2)		*BA32.20-P-1001-02L
17	Tighten nuts (6)	Only if new link rods (7) have been fitted. 	*BA32.20-P-1003-02L
18	Tighten nuts (8)		*BA32.20-P-1004-02L
19.1	Install lower engine compartment paneling.	Vehicles with gasoline engine	AR61.20-P-1105GZ
19.2	Install noise encapsulation	Vehicles with diesel engine	AR94.30-P-5300GZ
20	Lower vehicle using drive-on lifting platform		

**Front axle stabilizer bar**

Number	Designation		Model 164.1/8
BA32.20-P-1001-02L	Bolt, stabilizer bar retaining clamp to bearing bracket	Nm	180
BA32.20-P-1002-02L	Bolt, torsion bushing retaining clamp	Nm	40
BA32.20-P-1003-02L	Nut, link rod to front shock	Stage 1	Nm 100
		2nd stage loosen	∠° 180
		Stage 3	Nm 120

		Stage 4	┘°	45
BA32.20-P-1004-02L	Nut, link rod to stabilizer bar	Stage 1	Nm	100
		2nd stage loosen	┘°	180
		Stage 3	Nm	120
		Stage 4	┘°	45