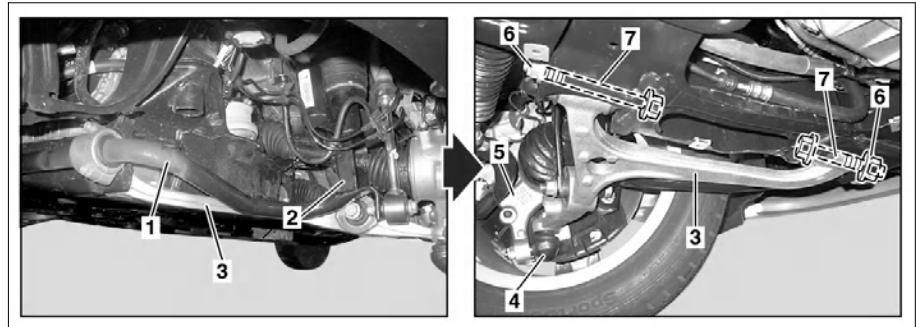


- 1 Stabilizer bar
- 2 Shock-absorber strut
- 3 Lower transverse control arm
- 4 Supporting joint
- 5 Steering knuckle
- 6 Nut
- 7 Screw



P33.20-2089-04

Modification notes

| | | | |
|----------|--|-----------|---------------------|
| 11.12.06 | Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle | Model 211 | *BA33.20-P-1018-01A |
|----------|--|-----------|---------------------|

| | | | |
|-------|---|---|---|
| | Remove/install | | |
| | 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 |
| | Risk of injury caused by body parts being jammed or crushed. Risk of injury to skin and eyes caused by brake fluid spraying out at high pressure when working on the SBC brake system | Deactivate SBC brake system using STAR DIAGNOSIS. | AS42.46-Z-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 | | |
| | Notes on self-locking nuts and bolts | All models | AH00.00-N-0001-01A |
| | Notes on AIRmatic | Model 211 | AH32.22-P-1000-02T |
| | Installation | Only tighten nuts and bolts of chassis components when vehicle is in a ready-to-drive condition. | |
| 1.1 | Empty and fill front suspension strut using STAR DIAGNOSIS | With AIRmatic (semi-active air suspension), code 489. | |
| 2 | Remove air filter housing with air ducts | Pull air filter housing vertically upwards off the rubber retainers on the cylinder head covers. Installation: Rub the rubber retainers on the cylinder head covers and the sealing ring of the hot film mass air flow sensor in the air filter housing with liquid lubricant. Model 211.087 /092 /287 /292 Lubricant paste | AR09.10-P-1150TS *BR00.45-Z-1002-06A |
| 3 | Attach engine supporting frame and lifting engine | Engine support device, engine hoist gotis://A_01_09.0 | AR33.10-P-0100-01T |
| 4 | Remove front wheel Remove/install wheels, rotate if necessary | | AP40.10-P-4050Z |
| 5 | Detach hexagon collar bolt of front axle shaft | On right or left front axle shaft. Collar bolt, front axle shaft to front axle shaft flange | AR33.30-P-0620-05P *BA33.30-P-1003-02C |
| 6 | Detach front axle brake caliper from steering knuckle | Removal: Hang up brake caliper to one side. The brake hose does not have to be unscrewed from the brake caliper. | AR42.10-P-0070T |
| 7 | Pry supporting joint (4) off steering knuckle (5) | After prying off at the supporting joint screw the nut on again, otherwise the steering knuckle may fall down and become damaged. Only unscrew the nut when the steering knuckle is removed. Self-locking nut, supporting joint to steering knuckle Puller | AR33.20-P-0440-01VM *BA33.20-P-1017-01A *203589003300 |

| | | | |
|----|---|---|--|
| | | Thrust piece | *140589006300 |
| 8 | Press track rod joint out of steering knuckle (5) | Self-locking nut, tie rod to steering knuckle Thrust piece Puller | AR46.40-P-0200-02IW *BA46.40-P-1001-01E *140589006300 *124589023300 |
| 9 | Pry follower joint of upper transverse control arm off steering knuckle | The follower joint must be removed, otherwise the follower joint is damaged by hard pulling or excessive angles. Self-locking nut, upper transverse control arm follower joint to steering knuckle Thrust piece Puller | AR33.20-P-0500-01VM *BA33.20-P-1018-01A *210589046300 *202589023300 |
| 10 | Detach link rod from torsion bar | Self-locking nut, link rod to torsion bar | AR32.20-P-0300-02VM *BA32.20-P-1002-02B |
| 11 | Move steering knuckle (5) out of supporting joint (4) | | |
| 12 | Remove steering knuckle (5) and move the right front axle shaft or left front axle shaft from the front axle shaft flange | Do not damage the boots of the front axle shaft and supporting joint. To loosen the front axle shaft, if necessary screw in the hexagon collar bolt a few threads again and hammer out the front axle shaft slightly using a rubber hammer. | |
| 13 | Detach lower engine compartment paneling | | AR61.20-P-1105T |
| 14 | Remove torsion bar (1) on front axle | | AR32.20-P-0300TW |
| 15 | Loosen front shock-absorber strut (2) on lower transverse control arm (3) and secure | Nut, shock-absorber strut to lower transverse control arm | AR33.20-P-0500-06VM *BA32.25-P-1012-04B |
| 16 | Detach lower transverse control arm (3) from front axle carrier | The bolt (7) must not be twisted. It is essential to counterhold the bolt (7) when loosening the nut (6). Otherwise, when the repair kit is fitted, the fixing lugs for camber adjustment and caster adjustment in the rubber mount are sheared off. Self-locking nut, lower wishbone to front axle carrier | *BA33.20-P-1010-01A |
| 17 | Install in the reverse order | | |
| 18 | Perform wheel alignment check | | AR40.20-P-0200T |

Front axle shaft

| Number | Designation | Model 211.08/09/ 28/29 | | |
|--------------------|--|------------------------------|----|----|
| BA33.30-P-1003-02C | Collar bolt, front axle shaft to front axle shaft flange | Stage 1 | Nm | 70 |
| | | Stage 2 | ∠° | 90 |

Wheel control, hub

| Number | Designation | Model 211.08/09/ 28/29 | | |
|--------------------|--|------------------------------|----|-----|
| BA33.20-P-1010-01A | Self-locking nut, lower wishbone to front axle carrier | Nm | | 110 |
| BA33.20-P-1017-01A | Self-locking nut, supporting joint to steering knuckle | Stage 1 | Nm | 70 |
| | | Stage 2 | ∠° | 50 |

| | | | | |
|--------------------|--|---------|----|----|
| BA33.20-P-1018-01A | Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle | Stage 1 | Nm | 20 |
| | | Stage 2 | └° | 90 |

Nm Tie rod

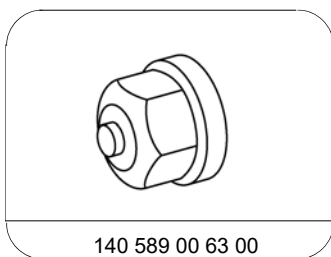
| Number | Designation | Model 211.08/09/ 28/29 |
|--------------------|---|------------------------------|
| BA46.40-P-1001-01E | Self-locking nut, tie rod to steering knuckle | Stage 1 Nm 55 |
| | | Stage 2 └° - |

Nm Suspension struts

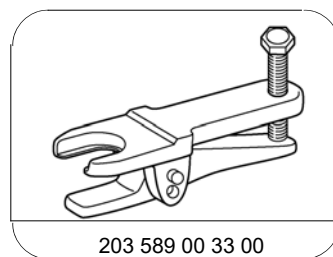
| Number | Designation | Model 211.08/ 09/28/29 |
|--------------------|---|------------------------------|
| BA32.25-P-1012-04B | Nut of shock-absorber strut to transverse control arm | Nm 162 |

Nm Front axle stabilizer bar

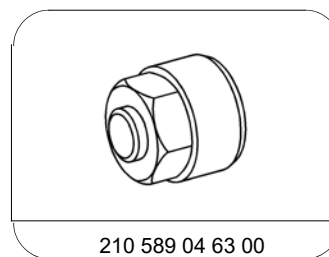
| Number | Designation | Model 211.08/09/ 28/29 |
|--------------------|---|------------------------------|
| BA32.20-P-1002-02B | Self-locking nut, connecting rod to torsion bar | M10 Nm - |
| | | M10×1.5 Nm - |
| | | M12×1.5 Nm 95 |
| | | M14×1.5 Nm - |



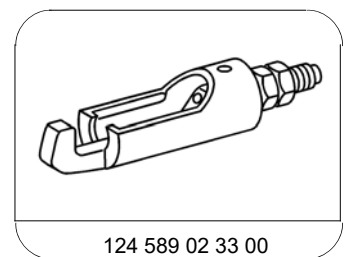
Thrust piece



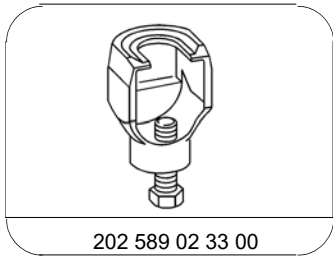
Puller



Thrust washer M 10x1.5



Puller



202 589 02 33 00

Puller

Repair materials

| Number | Designation | Order number |
|--------------------|--|-----------------|
| BR00.45-Z-1002-06A | Antifriction paste, rubber parts 2.5 kg, DB supply specification 6867.00 | A 000 989 01 60 |