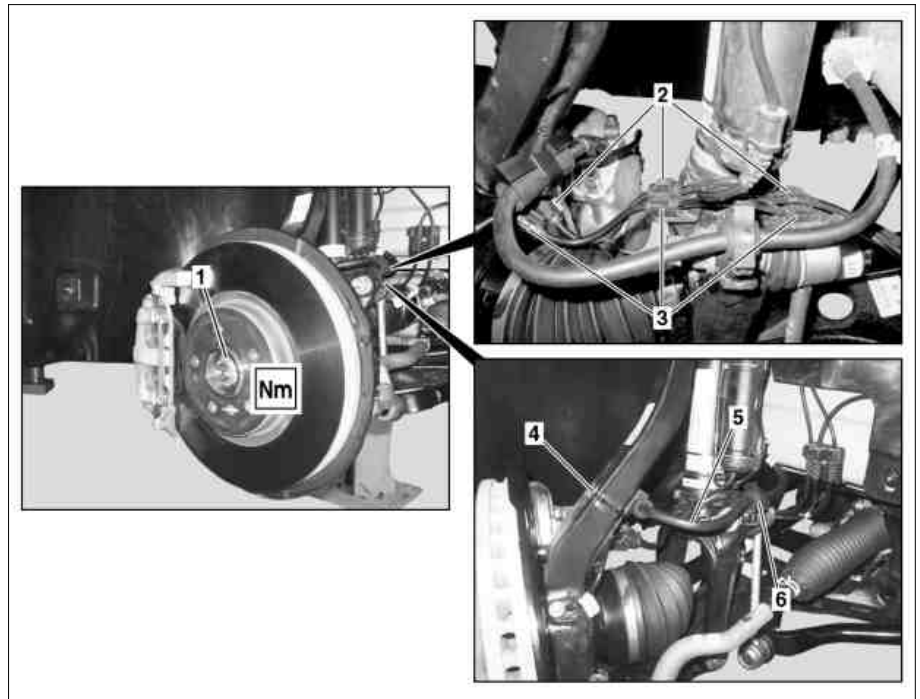


MODEL 164

Shown on the right side of vehicle with AIRmatic (air suspension with level adjustment and Adaptive Damping System ADS), code 489

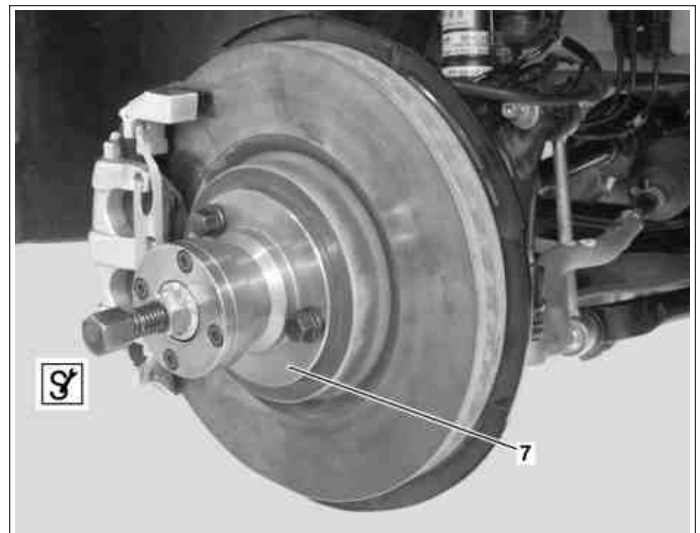
- 1 Front axle shaft collar nut
- 2 Bracket
- 3 Bracket
- 4 Cable tie
- 5 Brake hose
- 6 Brake hose bracket



P33.30-2082-06

Shown on the right side of vehicle with AIRmatic (air suspension with level adjustment and Adaptive Damping System ADS), code 489

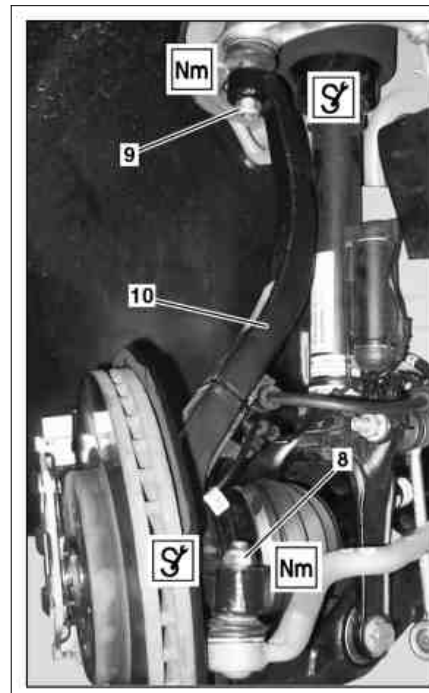
- 7 Extraction and insertion tool



P33.30-2083-11

Shown on the right side of vehicle with AIRmatic (air suspension with level adjustment and Adaptive Damping System ADS), code 489

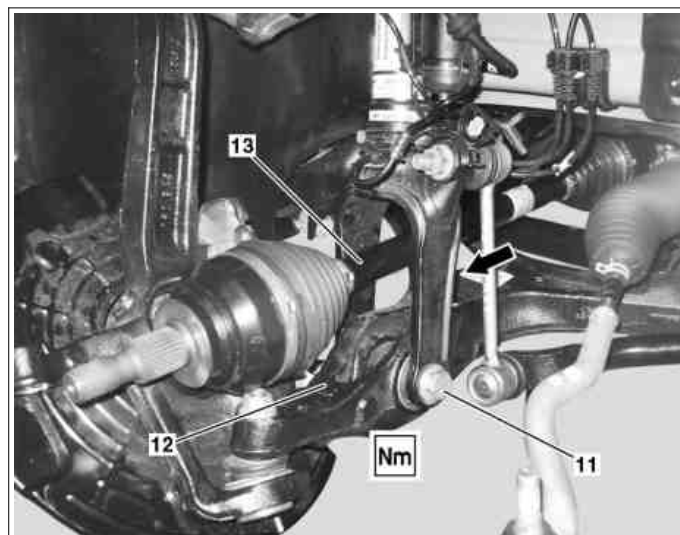
- 8 Nut
- 9 Nut
- 10 Steering knuckle



P33.30-2084-03

Shown on the right side of vehicle with AIRmatic (air suspension with level adjustment and Adaptive Damping System ADS), code 489

- 11 Screw
- 12 Transverse control arm
- 13 Front axle shaft

























P33.30-2085-11

Modification notes

| | | | |
|---------|--|----------------------------|--|
| 24.1.07 | Collar nut, front axle shaft to front axle shaft flange Collar nut, front axle shaft to front axle shaft flange | Model 164.1 Model 164.8 | *BA33.30-P-1001-02D *BA33.30-P-1001-02D |
|---------|--|----------------------------|--|

| | Remove/install | | |
|----------------|---|---|--------------------|
| Danger! | Risk of injury caused by moving parts that can pinch, crush or, in extreme cases, even sever 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 |
| Danger! | Risk of death 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 |
| Danger! | Risk of death 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 are carriers of electronic implants (e.g. cardiac pacemakers), must not carry out any work on high-voltage on-board electrical systems. | AS54.00-Z-0001-01A |
| | 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 | Remove transmitter key or Keyless-Go start and stop button | On model 164.195 Switch off ignition. Remove transmitter key and Keyless-Go stop button from vehicle and keep at a location beyond transmitter range (at least 2 m). | |
| 2 | Raise vehicle using two-post lift |  Raise vehicle until wheels are free of ground. Two-post lifting platform 3.0-3.5 t, electromechanical gotis://H_00.1_01.0 | AR00.60-P-1000GZ |
| 3 |  Deflate AIRmatic system using STAR DIAGNOSIS Connect STAR DIAGNOSIS and read out fault memory |  Vehicle with AIRmatic (air suspension with level adjustment and adaptive damping system ADS), code 489. STAR DIAGNOSIS diagnosis system | AD00.00-P-2000-04A |
| 4 |  Remove front wheels Remove/install wheels, rotate if necessary | | AP40.10-P-4050Z |
| 5 | Unscrew collar nut on front axle shaft (1) |  For counterholding purposes an assistant must apply the brake.  | *BA33.30-P-1001-02D |
| 6 | Raise vehicle using two-post lift |  Raise vehicle to full height. Two-post lifting platform 3.0-3.5 t, electromechanical gotis://H_00.1_01.0 | AR00.60-P-1000GZ |
| 7.1 | Detach lower engine compartment paneling | Vehicles with gasoline engine | AR61.20-P-1105GZ |
| 7.2 | Remove soundproofing | Vehicles with diesel engine | AR94.30-P-5300GZ |
| 7.3 | Remove underride guard | Vehicles with offroad package, code 430 | AR88.30-P-0010GZ |
| 8 | Lower vehicle on two-post lift |  Half the height. Two-post lifting platform 3.0-3.5 t, electromechanical gotis://H_00.1_01.0 | AR00.60-P-1000GZ |
| 9 | Remove electrical lines from bracket (2) and bracket (3) |  Do not damage electrical lines. | |
| 10 | Cut off cable ties (4) |  Installation: Installation position must be observed.  Installation: Use new cable tie (4).  Pliers | *164589013700 |
| 11 | Remove brake hose (5) from brake hose bracket (6) |  Do not damage brake hose. | |
| 12 | Undo nut (8) and remove tie rod from steering knuckle (10) |   Thrust piece  Puller | *BA46.40-P-1002-01K *140589006300 *140589093300 |
| 13 | Undo nut (9) and remove steering knuckle (10) from upper transverse control arm |   Puller  Thrust piece | *BA33.20-P-1001-01J *601589043300 *140589006300 |
| 14 | Mount extraction and insertion tool (7) and undo front axle shaft (13) from front axle shaft flange |  Extraction and insertion tool | *210589034300 |
| 15 | Swivel steering knuckle (10) out of working area | | |
| 16 | Unscrew nut from front shock absorber, pull out bolt (11) and detach front shock absorber from transverse control arm (12) |  | *BA32.25-P-1002-01G |
| 17 | Withdraw front axle shaft (13) from front axle gear (arrow A) and remove |  Collect any oil which runs out. | |
| 18 | Install in the reverse order | | |
| 19 | Fill AIRmatic system using STAR DIAGNOSIS |  The wheels must not make any contact with the ground when filling as when filling in the jounce condition the air spring bellows in the spring element will be destroyed. STAR DIAGNOSIS diagnosis system | |
| 20 | Check AIRmatic for leaks. | | AR32.22-P-8100GZ |

 **Front axle shock absorber**

| Number | Designation | Model 164.1/8 |
|--------|-------------|------------------|
|--------|-------------|------------------|

| | | | |
|--------------------|--|----|-----|
| BA32.25-P-1002-01G | Self-locking nut, shock absorber to wishbone | Nm | 265 |
|--------------------|--|----|-----|

Nm Wheel control, hub

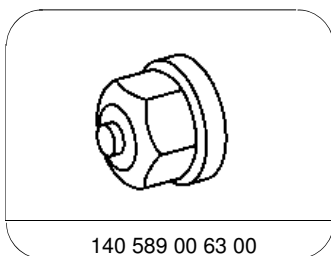
| Number | Designation | | | Model 164.1/8 |
|--------------------|--|---------|----|---------------|
| BA33.20-P-1001-01J | Self-locking nut, upper ball joint out of upper transverse control arm to steering knuckle | Stage 1 | Nm | 20 |
| | | Stage 2 | └° | 90 |

Nm Front axle shaft

| Number | Designation | | | Model 164.1 | Model 164.8 |
|--------------------|---|---------|----|-------------|-------------|
| BA33.30-P-1001-02D | Collar nut, front axle shaft to front axle shaft flange | Stage 1 | Nm | 250 | 260 |
| | | Stage 2 | └° | 45 | 45 |

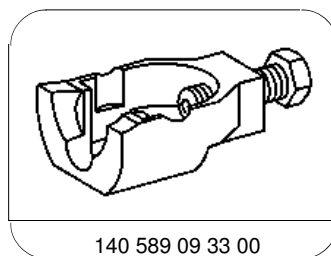
Nm Tie rod

| Number | Designation | | | Model 164.1/8 |
|--------------------|---|---------|----|---------------|
| BA46.40-P-1002-01K | Self-locking nut, tie rod to steering knuckle | Stage 1 | Nm | 45 |
| | | Stage 2 | └° | 90 |



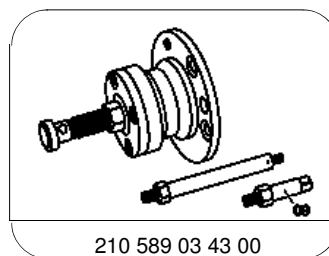
140 589 00 63 00

Thrust piece



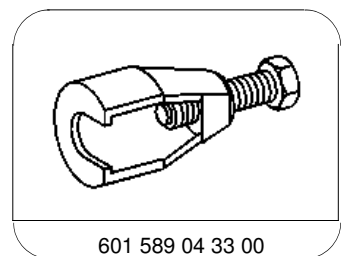
140 589 09 33 00

Puller



210 589 03 43 00

Extraction and insertion tool



601 589 04 33 00

Puller



164 589 01 37 00

Pliers