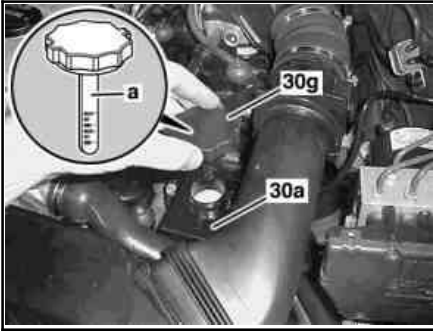


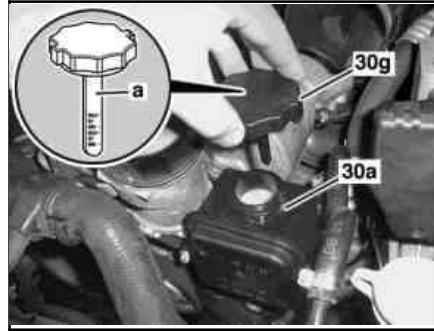
MODEL 163.113 /128 /136, 203.0 /7, 209, 211.020 /022 /061 /065 /070 /076 /080 /082 /083 /084 /089 /220 /222 /261 /265 /270 /276 /280 /282 /283 /284 /289 /620

MODEL 203.2 except CODE (480) Rear axle level control system



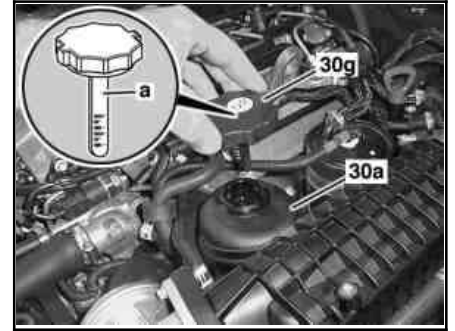
P46.30-2088-01

Shown on engine 111 in model 203



P46.30-2087-01

Shown on engine 112 in model 203



P46.30-2089-01

Shown on engine 611 in model 203

30a Power steering reservoir




30g Expansion reservoir cover

a Dipstick

Modification notes

| | | | |
|---------|---|--------|--|
| 28.7.04 | Raise vehicle until wheels are clear of the ground using lifting platform, added | Step 1 | |
| 28.7.04 | Turn steering wheel slowly from steering stop to steering stop until no more bubbles are ascertained, added | Step 5 | |

| | Remove/install | | |
|------------------|---|---|--|
| 1 | Hoist vehicle with lifting platform until wheels are free | Model 211 Model 163 Model 203, 209 | AR00.60-P-1000T AR00.60-P-1000GH AR00.60-P-1000P |
| 2 | Remove left air intake hose | Engine 112, 113 | |
| Charging | | | |
| 3 | Fill expansion reservoir (30a) with MB-steering gear oil | <p>⚠ Do not start the engine! If the engine is started there is the danger that air gets into the hydraulic steering system which cannot be removed without taking further action.</p> <p>i Fill the expansion reservoir (30a) with MB steering gear oil up to approx. 10 mm below the top edge of the reservoir.</p> <p>i Add MB steering gear oil continuously, until the fluid level remains constant.</p> <p></p> | *BF46.20-P-1001-01A |
| Bleeding | | | |
| 4 | Turn steering wheel from steering stop to steering stop | <p>⚠ Do not start the engine! If the engine is started there is the danger that air gets into the hydraulic steering system which cannot be removed without taking further action.</p> <p>i Turn the steering wheel slowly from steering stop to steering stop until no more bubbles are found to form in the expansion reservoir (30a).</p> <p>i Repeat turning the steering from stop to stop several times (up to 30 times). During this process MB steering gear oil must be added to the expansion reservoir by an assistant.</p> | |
| ⚠ Danger! | Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the running engine | Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not grasp hot or rotating parts. | AS00.00-Z-0005-01A |
| 5 | Start engine without moving the steering | i Allow the engine to run for approx. 1 minute at idle speed. | |

| | | | |
|--|--|---|---|
| | | i During this process an assistant must observe the steering oil level in the expansion reservoir (30a) and MB-steering gear oil must be refilled if necessary. | |
| 6 | Turn steering wheel from steering stop to steering stop | i When the engine is running, turn the steering wheel slowly several times from steering stop to steering stop, in the meantime refilling the expansion reservoir (30a) with MB steering gear oil. i Repeat the process until the steering gear oil level remains constant in the expansion reservoir (30a) and no more bubbles are found to form. | |
|  | Checking | | |
| 7 | Check oil level in the expansion reservoir (30a) and fill up to the maximum fill level  AP  AP | i The oil level in the expansion reservoir (30a) must always be filled up to the maximum. Model 211 with diesel engine, 163, 203, 209 Model 211 with gasoline engine | AP46.00-P-4611P AP46.00-P-4611BB |
| 8 | Check steering system for leaks | i In the event of leakage, find and eliminate cause. | |
| 9 | Install in the reverse order | | |

 **Steering gear**

| Number | Designation | | | Model 163 | Model 203.0/2/7 except 203.2 with code 480 | Model 211 |
|--------|-------------|----------------------|-------|---------------------|--|---------------------|
| | | | | BF46.20-P-1001-01A | Power steering | Filling capacity |
| | | MB steering gear oil | Sheet | BB00.40-P-0236-03 A | BB00.40-P-0345-00 A | BB00.40-P-0345-00 A |

 **Steering gear**

| Number | Designation | | | Model 209 |
|--------|-------------|----------------------|-------|---------------------|
| | | | | BF46.20-P-1001-01A |
| | | MB steering gear oil | Sheet | BB00.40-P-0345-00 A |