

ENGINES 112.912 in MODEL 203.061 /261, 209.361 /461 with TRANSMISSION 716.6, 722.6

ENGINES 112.946 in MODEL 203.064 /264 with TRANSMISSION 722.6

ENGINES 112.961 in MODEL 203.065 /265 with TRANSMISSION 722.6

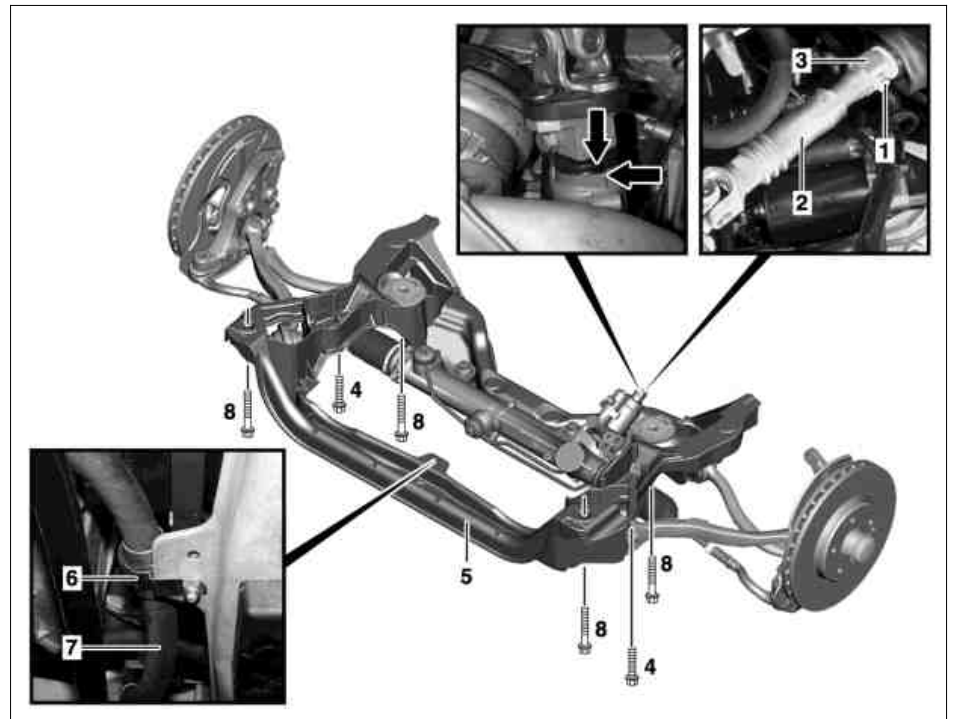
ENGINES 113.968 in MODEL 209.375 /475 with TRANSMISSION 722.633

ENGINES 113.987 in MODEL 209.376 /476 with TRANSMISSION 722.636

ENGINES 112.955 in MODEL 209.365 /465 with TRANSMISSION 722.618

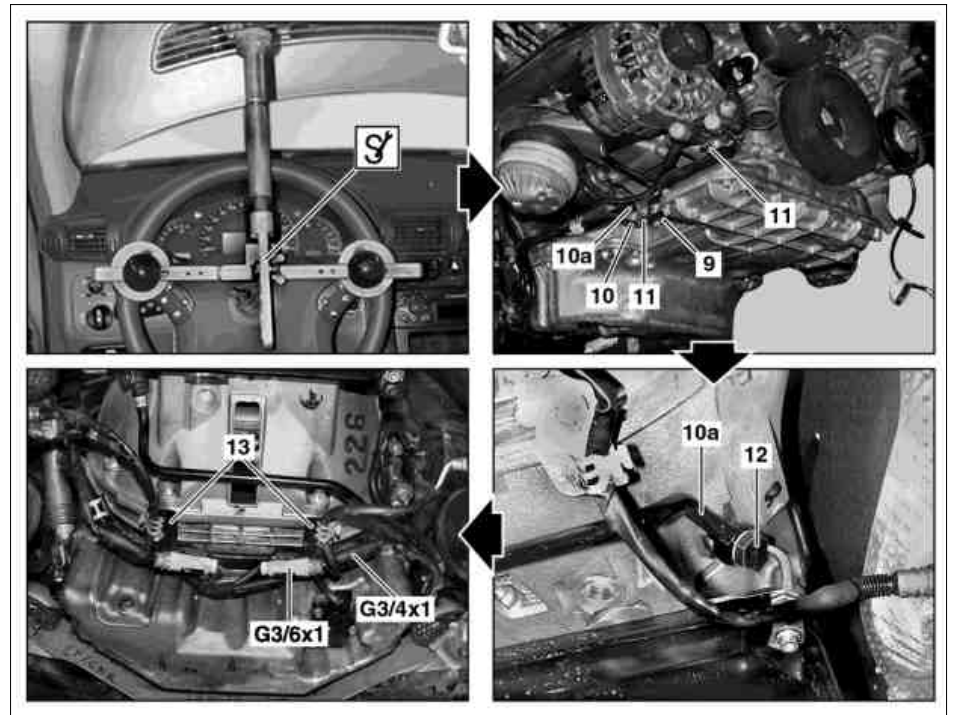
ENGINES 113.988 in MODEL 203.076 /276 with TRANSMISSION 722.6

- 1 Screw
- 2 Drag link
- 3 Locking plate
- 4 Engine mount bolts
- 5 Front axle carrier
- 6 Bracket
- 7 Power steering pump pressure line
- 8 Bolts



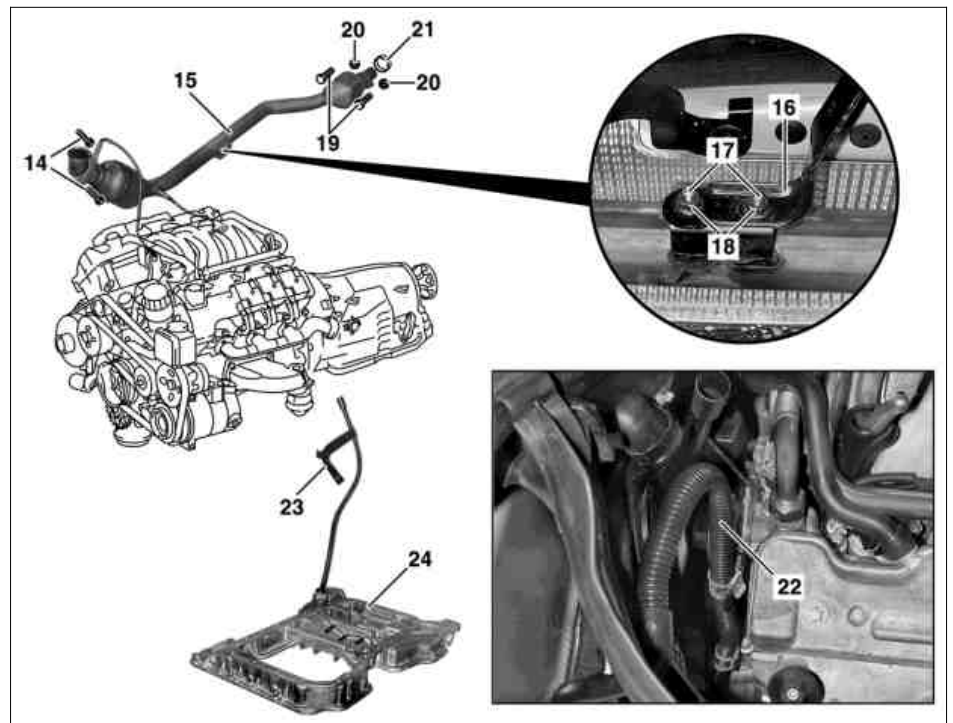
P33.00-2031-06

- 9 Bracket
- 10 Right ATF line
- 10a Left ATF line
- 11 Mounts of ATF lines
- 12 Banjo bolt
- 13 Bracket
- G3/4x1 Right O2 sensor upstream of TWC [KAT] connector
- G3/6x1 Right O2 sensor downstream of TWC [KAT] connector



P01.45-2110-06

- 14 Bolts
- 15 Exhaust pipe with catalytic converter on the right
- 16 Exhaust bracket
- 17 Threaded stud
- 18 Nuts
- 19 Bolts
- 20 Nuts
- 21 Seal ring
- 22 Positive line
- 23 Oil dipstick guide tube
- 24 Oil pan top section




























P01.45-2071-06

**Modification notes**

|         |                                   |         |  |
|---------|-----------------------------------|---------|--|
| 28.5.08 | Clean the sealing surfaces: added | Step 15 |  |
|---------|-----------------------------------|---------|--|

|                | Remove/install   |   |                    |
|----------------|--|---|--------------------|
| <b>Danger!</b> | <b>Risk of death</b> 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 |
| <b>Danger!</b> | <b>Risk of accident</b> caused by vehicle starting off by itself when engine is running. <b>Risk of injury</b> caused by contusions and burns during starting procedure or when working near the engine as it is running | Secure vehicle to prevent it from moving by itself.<br>Wear closed and snug-fitting work clothes.<br>Do not touch hot or rotating parts.  | AS00.00-Z-0005-01A |
|                | Notes on self-locking nuts and bolts   | All models  | AH00.00-N-0001-01A |
| 1.1            | Deactivate easy entry/exit function for driver seat and steering wheel   | In vehicles with driver seat, steering column and electrically adjustable outside mirror with memory code 275<br>When easy entry/exit for the driver seat and steering wheel is activated, the seat will move into the memory position when the ignition is switched on or the driver door is opened and closed; thus the top frame can be damaged when the holding device is installed.<br>Deactivation is performed via the instrument cluster. Select Individual Settings in the main menu and follow menu instructions. |                    |
| 2.1            | Move the electrically adjustable steering column all the way out   | In vehicles with driver seat, steering column and electrically adjustable outside mirror with memory code 275   |                    |
| 2.2            | Open lock of steering column and pull out steering column fully, close lock  | Not on vehicles with driver seat, steering column and electrically adjustable outside mirror with memory code 275   |                    |
| 3              | Rotate the steering wheel to the center position   | Place front wheels in straight-ahead position.  |                    |
| 4              | Lock steering wheel  | The steering wheel must not be turned when the steering coupling is detached, otherwise the clock spring contact will be destroyed.<br>Holding device   | *129589012100      |

|   |   |  |  |
|---|---|--|--|
| 5   | Remove bolt (1) of drag link (2)  | <p> <b>Installation:</b> Replace bolt (1) and locking plate (3), otherwise the connection can come loose when reusing.</p> <p> Push locking plate (3) until lug engages in steering coupling.</p> <p></p>   | *BA46.10-P-1001-01E  |
| 6   | Remove oil pan bottom section   | <p>Except engine 113.988. in model 203.076/276</p> <p>Engine 113.988 in model 203.076/276</p>  | AR01.45-P-7555PV<br>AR01.45-P-7555AC   |
| 7   | Remove bracket (6) of power steering pump pressure line (7) at front axle carrier (5) |  |  |
| 8   | Lower/support front axle carrier (5)  | <p> <b>Installation:</b> The bolts (8) are self-tapping. Use new genuine bolts only and tighten to correct tightening torque to avoid damaging the thread.</p> <p> <b>Installation:</b> When lifting front axle carrier (5), ensure that the lower steering column slides over the upper steering column to the end stop position. The holes of the upper steering column and lower steering column must be aligned.</p> <p>Model 203</p> <p></p> <p>Model 209</p> <p></p> <p>Transmission platform, refer to GOTIS</p> <p><a href="http://gotis.aftersales.mercedes-benz.com">http://gotis.aftersales.mercedes-benz.com</a></p> | AR33.10-P-0100-03P<br><br>*BA33.10-P-1003-01A<br><br>*BA33.10-P-1001-01H   |
| 9   | Remove ATF lines on transmission  | <p>On vehicles with transmission 722.6</p> <p> Remove bracket (9) for right ATF line (10) and left ATF line (10a) on oil pan bottom section (24). Remove mounts for ATF lines (11).</p> <p> <b>Installation:</b> Install new sealing rings for banjo bolt (12). Failure to do so can lead to leaks.</p>   |  |
| 10  | Remove catalytic converters or complete front exhaust system                          | <p>Engine 112 in model 203</p> <p>Engine 112 in model 209</p> <p>Engine 113.968 in model 209.375/475</p> <p>Engine 113.987 in model 209.476</p> <p>Engine 113.987 in model 209.376 up to 23.4.04</p> <p>Engine 113.988 in model 203.076/276</p> <p>Engine 113.987 in model 209.376 as of 24.4.04</p> <p></p> <p></p> <p></p> <p> Caulking bolt</p>   | AR49.10-P-5531PV<br><br>AR49.10-P-5531AC<br><br>*BA14.10-P-1002-01B<br>*BA49.10-P-1009-01A<br>*BA49.10-P-1008-01A<br>*103589013900 |
| 11  | Press positive line (22) out of the brackets  |  |  |
| 12  | Remove cable tie at oil dipstick guide tube (23)                                      |  |  |
| 13  | Unbolt oil pan top section (24)   | <p> <b>Installation:</b> Observe different bolt lengths and bolt diameters.</p> <p>Engine 112.912/946/961</p> <p>Bolt plan for oil pan</p> <p>Engine 112 except engine 112.912/946/961, engine 113</p> <p>Bolt plan for oil pan</p> <p></p>  | AR01.45-P-7500-06PV<br><br>AR01.45-P-7500-06F<br>*BA01.45-P-1001-01B   |
| 14  | Remove oil pan top section(24)  | <p> Take out oil pan top section (24) together with dipstick guide tube (23) to the rear.</p> <p> <b>Installation:</b> Replace gasket of oil dipstick guide tube (23). Observe sealant path at oil pan top section (24). Failure to do so can lead to leaks.</p>   |  |
|  | Notes on sealant path for oil pan top section   | <p>Engine 112.912/913/946/949/951/955/961/973/976</p>  | AH01.45-P-0001-01PV  |

|  |  |  |  |
|--|--|--|--|
|                   | Notes on sealant path for oil pan top section  | Engine 113.963/967/968/987/988/989/<br>990/991/992<br>Loctite sealant 5970   | AH01.45-P-0001-01R<br><br>*BR00.45-Z-1013-01A  |
|                 | <b>Clean</b>   |  |  |
| 15   | Clean sealing surfaces   |  Do not use any sharp-edged tools or abrasive paper as this will damage the sealing surfaces.<br>Loctite 7200<br>Cleaning spray, Loctite 7063 (150ml)   | AR01.00-P-0050-01A<br><br>*BR00.45-Z-1038-04A<br>*BR00.45-Z-1046-04A   |
| 16   | Install in the reverse order   |  |  |
|                 | <b>Checking</b>  |  |  |
|  <b>Danger!</b> | <b>Risk of accident</b> caused by vehicle starting off by itself when engine is running. <b>Risk of injury</b> caused by contusions and burns during starting procedure or when working near the engine as it is running | Secure vehicle to prevent it from moving by itself.<br>Wear closed and snug-fitting work clothes.<br>Do not touch hot or rotating parts.   | AS00.00-Z-0005-01A   |
| 17   | Check for leaks with engine running  |  |  |
| 18   | Check engine oil level   |  Check engine oil level using an oil dipstick.<br>Engine 112.912/946 in model 203<br>Engine 112.912/955 in model 209<br>Engine 112.961 in model 203 AMG<br>Engine 113.987 in model 209 AMG<br>Engine 113.988 in model 203 AMG<br>Engine 113.968 in model 209<br> Engine oil filling capacity | AR18.00-P-3035-01A<br><br>AR18.00-P-3035-01BA<br>AR18.00-P-3035-01PA<br><br>AR18.00-P-3035-01CC<br>*BF18.00-P-1001-01H |
| 19   | Check oil level in automatic transmission, correct if necessary  | On vehicles with transmission 722.6  | AR27.00-P-0100AC   |

#### Oil pan

| Number             | Designation                         | Engine |    |    |    |    |
|--------------------|-------------------------------------|--------|----|----|----|----|
|                    |                                     | M6     | Nm | 9  | 9  | 9  |
| BA01.45-P-1001-01B | Bolt, oil pan to cylinder crankcase | M6     | Nm | 9  | 9  | 9  |
|                    |                                     | M8     | Nm | 20 | 20 | 20 |

#### Exhaust manifold

| Number | Designation | Engine                            |   |                             |
|--------|-------------|-----------------------------------|---|-----------------------------|
|        |             | 112<br>except<br>112.951 /<br>976 | 113.940/941/<br>942/943/944/<br>945/946/948/<br>960/961/962/<br>963/964/965/<br>966/967/968/<br>969/971/980/<br>981/982/984/<br>986/992/993/<br>995 | 113.987/<br>988/990/<br>991 |
|        |             |                                   |   |                             |

|                    |   |    |    |    |    |
|--------------------|---|----|----|----|----|
|                    |   |    |    |    |    |
| BA14.10-P-1002-01B | Flange connection, exhaust manifold/front exhaust pipes | Nm | 20 | 20 | 20 |

**Nm** Front axle carrier

| Number             | Designation                           |    | Model 203 |
|--------------------|---------------------------------------|----|-----------|
| BA33.10-P-1003-01A | Bolt, front axle carrier to front end | Nm | 100       |

**Nm** Front axle carrier

| Number             | Designation                           |    | Model 209 |
|--------------------|---------------------------------------|----|-----------|
| BA33.10-P-1001-01H | Bolt, front axle carrier to front end | Nm | 100       |

**Nm** Steering shaft

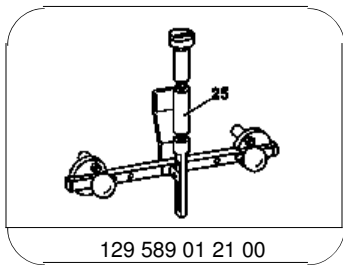
| Number             | Designation                               |         | Model 203 except 203.081/084/087/092/281/284/287/292 | Model 209 |    |
|--------------------|---|---------|--|-----------|----|
| BA46.10-P-1001-01E | Bolt, steering coupling to steering shaft | Stage 1 | Nm   | 30        | 30 |
|                    |   | Stage 2 | ∠°   | -         | -  |

**Nm** Exhaust system

| Number             | Designation  |    | Engine 112, 113 in model 203 | Engine 112, 113 in model 209 |
|--------------------|--|----|------------------------------|------------------------------|
| BA49.10-P-1008-01A | Self-locking nut to front exhaust pipe                   | Nm | 20                           | 20                           |
| BA49.10-P-1009-01A | Bolt, flange connection to exhaust pipe/exhaust manifold | Nm | 20                           | 20                           |

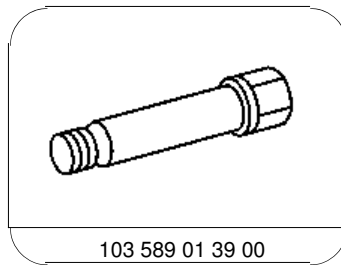
## 📄 Engine lubrication

| Number             | Designation                         | Engine 112 except 112.916/953/975 | Engine 113.963/965/968 | Engine 113.987/988/990/992/993/995 |                     |
|--------------------|-------------------------------------|-----------------------------------|------------------------|------------------------------------|---------------------|
| BF18.00-P-1001-01H | Filling capacity with oil filter    | Liters                            | 8,0                    | 7.5                                | 8.5                 |
|                    | Filling capacity without oil filter | Liters                            | 7.5                    | 7.0                                | 8.0                 |
|                    | Specifications for Operating Fluids | Sheet                             | BB00.40-P-0229-01 A    | BB00.40-P-0229-01 A                | -                   |
|                    |                                     | Sheet                             | BB00.40-P-0229-03 A    | BB00.40-P-0229-03 A                | -                   |
|                    |                                     | Sheet                             | BB00.40-P-0229-05 A    | BB00.40-P-0229-05 A                | BB00.40-P-0229-05 A |



129 589 01 21 00

Holding device



103 589 01 39 00

Caulking bolt

## Repair materials

| Number             | Designation                          | Order number   |
|--------------------|--------------------------------------|--|
| BR00.45-Z-1013-01A | Loctite sealant 5970                 | A 003 989 98 20  |
| BR00.45-Z-1038-04A | Loctite 7200                         | Henkel Loctite Deutschland GmbH<br>Arabellastrasse 17<br>81925 München<br>Germany<br>Tel. +49 899268-0<br>Fax + 49 899101978<br>www.Loctite.de |
| BR00.45-Z-1046-04A | Cleaning spray, Loctite 7063 (150ml) | A 001 986 71 71 10   |