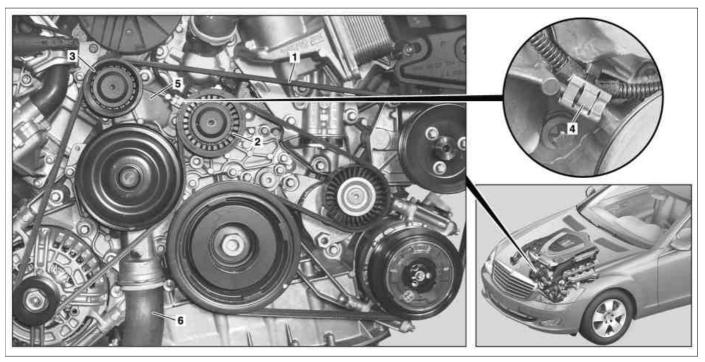
Engine 272, 273 in model 221 Engine 273 in model 216

## **Modification notes**

| 27.02.2012 | Reference to modified version of poly-V belt, added | Operation step 3.1, 3.2 | BT13.20-P-1000-01SXH |
|------------|---|-------------------------|----------------------|
|------------|---|-------------------------|----------------------|



P20.10-2186-09

Poly-V belt
Guide pulley

4 Retaining clamp 5 Coolant pump 6 Coolant hose

| XX          | Remove/install   |  |                      |
|-------------|--|--|----------------------|
| 1           | Switch off ignition  |  |                      |
| 2           | Drain coolant at radiator  |  | AR20.00-P-1142SX     |
| (1)         | Notes on coolant   |  | AH20.00-N-2080-01A   |
| 3.1         | Remove poly-V belt (1) and guide pulley (2, 3)                         | Engine 272 in model 221<br>Vehicles with a single-belt pulleyEngine 273 in<br>model 216<br>Engine 273 in model 221 |                      |
|             |  |  | AR13.20-P-0001SX     |
| <b>⊯</b> BT | V-belt version modified  |  | BT13.20-P-1000-01SXH |
| 3.2         | Remove both poly-V belts   | Engine 272.974 in model 221.095/195Vehicles a twin-belt pulley   |                      |
|             |  |  | AR13.22-P-1202SXH    |
| <b>⊯</b> BT | V-belt version modified  |  | BT13.20-P-1000-01SXH |
| 4           | Remove alternator  | Model 221.095/195 with engine 272.974  | AR15.40-P-5032SXH    |
| 5           | Detach alternator bracket from timing case cover and coolant pump (5)  | Model 221.095/195 with engine 272  |                      |
|             |  | Bolt, alternator bracket to timing case cover/coolant pump   | *BA15.40-P-1010-01F  |
| 6           | Pry off electrical feed line retaining clamp (4) from coolant pump (5) | Model 216 with engine 273<br>Model 221 (except 221.095/195) with engine<br>272, 273                                |                      |
| 7           | Detach coolant hose (6) from coolant pump (5)                          | i Installation: Replace sealing ring on coolant hose (6).  |                      |

| 8         | Remove screw/bolts and coolant pump (5) from timing case cover  | Bolt plan for coolant pump                                     | AR20.10-P-1271-03VA |
|-----------|---|--|---------------------|
|           |   | i Installation: Replace seal and observe bolt plan.            |                     |
|           |   | Self-tapping bolt connecting coolant pump to timing case cover | *BA20.10-P-1001-01U |
|           |   | Nm Bolt, coolant pump to cylinder crankcase                    | *BA20.10-P-1002-01U |
|           | Clean   |  |                     |
| 9         | Clean sealing surfaces on coolant pump (5) and timing case cover with a rag   |  |                     |
| 10        | Install in the reverse order  |  |                     |
| 11        | Check cooling system for leaktightness  |  | AR20.00-P-1010SX    |
| ⚠ Danger! | Risk of accident from vehicle starting off by itself when engine running. Risk of injury (bruises and burns) resulting from working on the engine while it is being started or when it running. |  | AS00.00-Z-0005-01A  |
| 12        | Perform an engine test run and check coolan pump (5) for leaktightness  | t  |                     |

## Nm Alternator

| Number             | Designation   | Engine 272 |
|--------------------|---|------------|
| BA15.40-P-1010-01F | Bolt, alternator bracket to timing case cover/coolant pump Nm | 20         |

## Nm Coolant pump, coolant thermostat

| Number | Designation  |    |         |    | Engine 272 | Engine 273 |
|--------|--|----|---------|----|------------|------------|
|        | Self-tapping bolt connecting coolant pump to timing case cover | M7 | Stage 1 | Nm | 10         | 10         |
|        |  |    | Stage 2 | Nm | 25         | 25         |

## Nm Coolant pump, coolant thermostat

| Number | Designation                              |    |         |    | Engine 272 | Engine 273 |
|--------|--|----|---------|----|------------|------------|
|        | Bolt, coolant pump to cylinder crankcase | M8 | Stage 1 | Nm | 5          | 5          |
|        |  |    | Stage 2 | Nm | 20         | 20         |