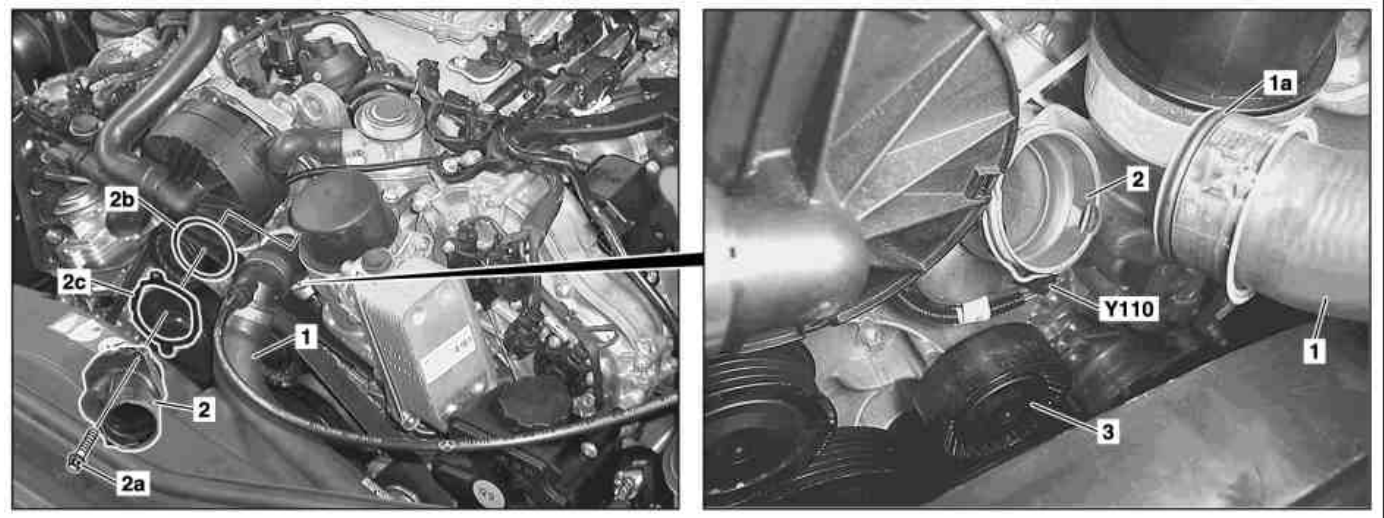


ENGINES 272.920 in MODEL 203.052 /252 /752
 ENGINES 272.940 in MODEL 203.054 /254, 209.354 /454
 ENGINES 272.960 in MODEL 203.056 /256 /756, 209.356 /456
 ENGINES 272.970 in MODEL 203.087 /287
 ENGINES 272.941 in MODEL 203.092 /292
 ENGINES 273 in MODEL 209



P20.10-2165-08

1 Upper coolant hose
 1a O-ring
 2 Coolant thermostat housing

2a Screw
 2b O-ring
 2c Gasket










3 Pulley
 Y110 Three-disk thermostat valve

6 Coolant pipe
 6a Coolant hoses
 6b Bolts
 7 Hose
 8 Air shutoff valve
 M33 Electric air pump



P20.20-2318-06

| | | | |
|----------------|---|---|--------------------|
| | Remove/install | | |
| Danger! | Risk of injury caused by fingers being pinched or crushed when removing, installing or aligning hoods, doors, trunk lids, liftgates or sliding roof | Keep body parts and limbs well clear of moving parts. | AS00.00-Z-0011-01A |
| | Information on preventing damage to electronic components due to electrostatic discharge | | AH54.00-P-0001-01A |
| 1 | Turn key in ignition lock to position "0" | | |
| 2 | Raise vehicle with vehicle lift | | AR00.60-P-1000P |
| 3 | Remove the front and central sections of the lower engine compartment paneling | | AR61.20-P-1105P |

| | | | |
|---|--|--|--|
| 4 | Drain coolant at radiator | | AR20.00-P-1142QB |
| 5 | Open engine hood and raise to vertical position | Model 203 Model 209 | AR88.40-P-1000P AR88.40-P-1000Q |
| 6 | Remove the left intake air duct and the front engine cover | See Remove air filter housing. | AR09.10-P-1150QB |
| 7 | Remove hose (7) from electrical air pump (M33) and air shutoff valve (8) | Engine 273 | |
| 8.1 | Detach top coolant hose (1) from coolant thermostat housing (2) and place it on the side | Engine 272  Installation: Replace O-ring (1a). | |
| 8.2 | Remove coolant hoses (6a), unscrew bolts (6b) and remove coolant pipe (6) | Engine 273   | *BA20.10-P-1005-01U *BA20.10-P-1006-01U |
| 9 | Remove poly-V belt | | AR13.22-P-1202QB |
| 10 | Remove guide pulley (3) of poly-V belt |  | *BA20.10-P-1004-01U |
| 11 | Unlatch electrical connector at three-disk thermostat valve (Y110) and disconnect | | |
| 12 | Remove bolts (2a, 2 pieces) |  | *BA20.10-P-1003-01U |
| 13 | Pull out coolant thermostat housing (2) with coolant thermostat from timing case cover |  The coolant thermostat and coolant thermostat housing (2) are a single unit. The coolant thermostat must not be taken out of coolant thermostat housing (2) as it can get damaged in the process.  Installation: Replace gasket (2b) and O-ring (2c). | |
| 14 | Install in the reverse order | | |
|  | Checking | | |
|  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 engine as it is running | Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts. | AS00.00-Z-0005-01A |
| 15 | Conduct engine test run and check engine for leaks | | |

Coolant pump, coolant thermostat

| Number | Designation | | Engine 272 | Engine 273 | |
|--------------------|--|----------------------|------------|------------|----|
| BA20.10-P-1003-01U | Bolt, coolant thermostat housing to timing case cover | Nm | 25 | 25 | |
| BA20.10-P-1004-01U | Bolt, guide pulley between water pump and belt tensioner | Initial installation | Nm | 35 | 35 |
| | | Follow-up operations | Nm | 25 | 25 |
| BA20.10-P-1005-01U | Bolt connecting coolant pipe to coolant thermostat housing | Nm | - | 9 | |
| BA20.10-P-1006-01U | Bolt connecting coolant pipe to cylinder head front cover | Nm | - | 9 | |