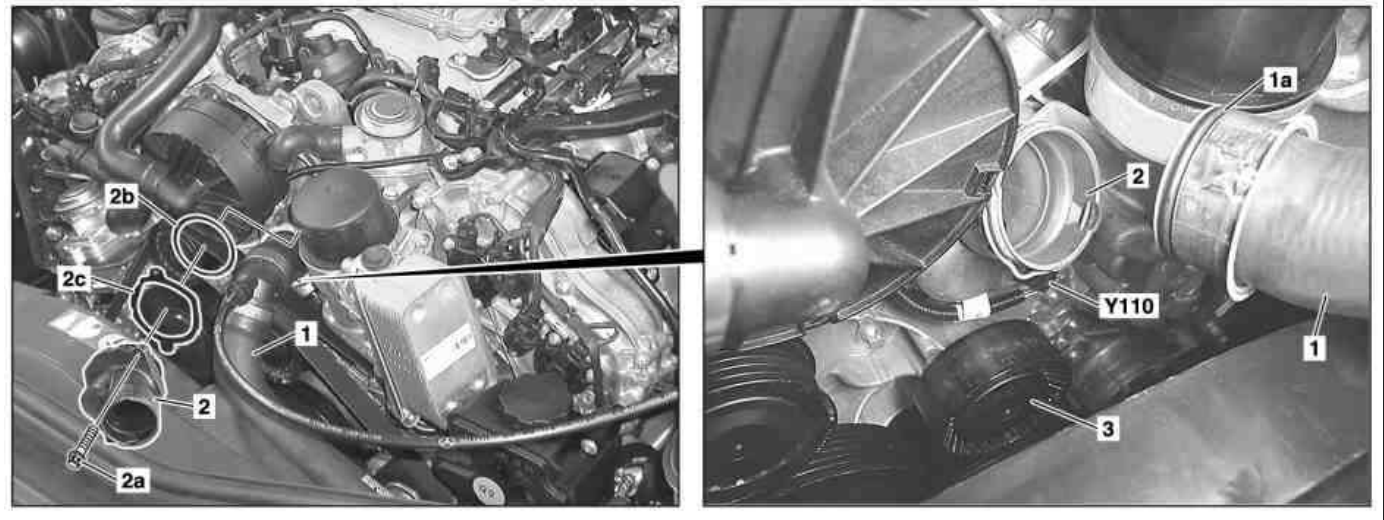


ENGINE 272, 273 in MODEL 164, 251

ENGINE 273 in MODEL 463



P20.10-2165-08

## Shown on engine 272

1 Upper coolant hose

1a O-ring

2 Coolant thermostat housing

2a Bolt

2b O-ring












2c Gasket



3 Pulley

Y110 Three-disk thermostat valve

## Modification notes

9.9.09	Switch off ignition, remove power electronics holder, place expansion reservoir to one side	Steps 1, 4.2 and 5	AR46.25-P-1000GZH
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 	Remove/install		
 <b>Danger!</b>	<b>Risk of injury</b> to skin and eyes caused by scalding from contact with hot coolant spray. <b>Risk of poisoning</b> caused by swallowing coolant.	Do not open cooling system unless coolant temperature is below 90°C. Open cap slowly and release the pressure. Do not pour coolant into beverage containers. Wear protective gloves, protective clothing and safety glasses.	AS20.00-Z-0001-01A
	Notes on coolant		AH20.00-N-2080-01A
	Information on preventing damage to electronic components due to electrostatic discharge		AH54.00-P-0001-01A
1	Switch off ignition and remove the transmitter key from the EIS [EZS] control unit	 On vehicles with code (889) Keyless Go: Press keyless go start/stop button repeatedly until ignition is switched off. Remove transmitter key from vehicle and store it in a location beyond its transmission range (at least 2 m).	
2	Drain coolant at radiator	Engine 272, 273 in model 164, 251 Engine 273 in model 463	AR20.00-P-1142GZC AR20.00-P-1142GX
3	Detach upper coolant hose (1) from coolant thermostat housing (2) and set aside	 <b>Installation:</b> Replace O-ring (1a).	AR09.41-P-1311-01AL
4.1	Remove poly-V belt and guide pulley (3)	Engine 272 (except 272.973), 273 in model 164, 251 Engine 273 in model 463	AR13.20-P-0001GZA AR13.20-P-0001GZG
4.2	Remove holder <b>right</b> power electronics	Engine 272.973 in model 164.195  	*BA08.20-P-1003-01A *BA08.20-P-1011-01A
5	Place expansion reservoir to one side	Engine 272.973 in model 164.195	AR46.25-P-1000GZH
6	Unlatch electrical connector at three-disk thermostat valve (Y110) and disconnect		
7	Remove bolts (2a) (2 pieces)		*BA20.10-P-1003-01U
8	Pull coolant thermostat housing (2) with coolant thermostat out of the timing case cover	 The coolant thermostat and coolant thermostat housing (2) form a unit. The coolant thermostat must not be removed from the coolant thermostat housing (2) as it is destroyed in the process.	

		<b>i</b> Installation: Replace gasket (2b) and O-ring (2c).	
9	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 Conduct engine test run and check engine for leaks	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
10			
11	Connect STAR DIAGNOSIS and read fault memory	<b>i</b> Stored fault entries which may be caused by disconnecting cables or by simulation during removal and installation or inspection operations, must be erased from the fault memory after work is completed.	AD00.00-P-2000-04A
			

**Nm** 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

**Nm** Control units

Number	Designation		Engine 272.973
BA08.20-P-1003-01A	Bolt/nut, power electronics bracket on engine support	Nm	10
BA08.20-P-1011-01A	Bolt, bracket for power electronics on bracket	Nm	10