AR20.10-P-2460B Remove/install coolant thermostat 4.12.06

112 in MODEL 129, 163, 202, 208, 209.361 /365 /461 /465, 210, 211.061 /261 /065 /265, 220 **ENGINE** 

**ENGINE** 112.945 in MODEL 463.209 /232 /233 /244 /245 /250

**ENGINE** 113 in MODEL 129, 163, 202, 203, 208, 209, 210, 211.070 /270, 220, 230.475

**ENGINE** 113.962 in MODEL 463.206 /240 /241 /247 /248 /249 /254

113.982 in MODEL 463.243 /246 **ENGINE** 113.989 in MODEL 171.473 **ENGINE** 

#### Shown on engine 112

Coolant thermostat housing

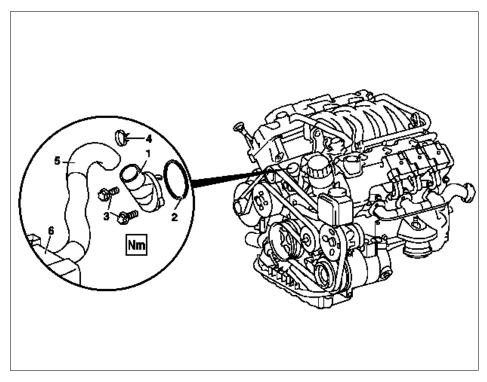
2 Sealing ring

3 **Bolts** 

4 Hose clamp

5 Coolant hose

Radiator



P20.10-0243-06

#### **Modification notes**

1.9.04	112.910/911/912/913/914/915/916/917/ 920/921/922/923/940/941/942/943/944/	*BA20.10-P-1003-01M
	945/946/947/949/953/954/955/960/961/	
	970/972/973/975	

XX	Remove/install		
⚠ Danger!	Risk of injury caused by fingers being pinched or crushed when removing, installin or aligning hoods, doors, trunk lids, tailgates or sliding roof.	Keep body parts and limbs well clear of g moving parts.	AS00.00-Z-0011-01A
1	Open engine hood		
⚠ Danger!	<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
2	Drain coolant at radiator (6)	i Model 163: For draining coolant, detach bottom coolant line at radiator or at coolant pump.  Installation: On model 163 replace radiator connection of hose clamps to coolant hose, otherwise this can cause a damage to the bolt/thread.	
		Nm Model 163	*BA20.20-P-1004-01A

		i Collect coolant	
		i Disposal of coolants: observe legal regulations or local wastewater requirements! Refer to Environmental Protection Catalog issued by MBVD/PWU for locations in Germany.	
		1	AR20.00-P-1142HA
		Engine 113 in model 211, 163, 208, 202, 210, 220, 129	
		Engine 113.962 in Model 463.240 /241 /248 /254 /206 /247 /249 Engine 112.945 in model 463.233 /244 /209	
		/232 /245 /250 Engine 113.982 in model 463.246 /243	
		1 0	A DOO OO D 1140DV//
		Engine 113.963 in model 230.475 Engine 112.912 in model 209.361 /461	AR20.00-P-1142RVK AR20.00-P-1142PV
		Engine 112.955 in model 209.365 /465 Engine 113.968 in model 209.375 /475	An20.00-F-1142FV
		Engine 113.987 in MODEL 209.376/ 476 Engine 113.988 in model 203.076/ 276 Engine 113.989 in model 171.473	
(1)	Notes on coolant		AH20.00-N-2080-01A
3	Unclip cover on front side of engine	Model 211, 220	
4	Remove engine cover with integrated air filter	Except model 211, 230	
		Model 171.473 Model 203.076/ 276 Model 209.376/ 476 as of 24.4.04	AR09.10-P-1150AC
		i For model 463, 220, 210.074 /274, 208.370 /374 /470, 209.361 /365 /375 /376	
		/461 /465 /475 /476, 202.033 /093, 129, the air filter is integrated in the engine cover. Remove engine cover or air filter by pulling it vertically up and off the cylinder head covers.	
5	Detach coolant hose (5)	i Inspect condition of coolant hose (5) and hose clamp (4), replace if necessary.	
6	Remove poly-V belt from guide pulley	Model 171.473 with engine 113.989	AR13.22-P-1202PV
7	Unscrew bolts (3), remove coolant thermostat housing (1) with coolant thermostat	The coolant thermostat must not be removed from the housing. Otherwise it will be destroyed. Re-installation is not possible. The housing is supplied together with the	
		coolant thermostat for repair purposes.	
		Installation: Install new sealing ring (2).	
		Nm Engine 112	*BA20.10-P-1003-01M
		Nm Engine 113 except 113.987 /988 /989 /991	*BA20.10-P-1003-01C
		Nm Engine 113.987 /988 /989 /991	*BA20.10-P-1003-01L
8	Install in the reverse order		
9	Inspect cooling system for leaks	Model 129, 163, 202, 208, 210, 211, 463 Model 220 except 220.074 /174	AR20.00-P-1010HA
		Model 171.473 Model 203.076/ 276 Model 209 with engine 112, 113	AR20.00-P-1010P
		Model 220.074/ 174 Model 230.475	AR20.00-P-1010RVK

### Nm Radiator, coolant hoses

Number	Designation		Engine 112.942/ 970, 113.942/ 965/981
BA20.20-P-1004-01A	Hose clamp	Νm	3

## ${}^{\hspace{-.1cm}\text{Nm}}$ Coolant pump, coolant thermostat

Number	Designation			Engine 113.940/941/ 942/943/944/ 945/946/948/ 960/961/962/ 963/965/966/ 967/968/969/ 980/981/982/ 984/986/992 993/995
BA20.10-P-1003-01C	Bolt for coolant thermostat housing	M6	Nm	10

## ${}^{\hspace{-.1cm}\text{Nm}}$ Coolant pump, coolant thermostat

Number	Designation			Engine 112.910/911/912/ 913/914/915/ 916/917/920/ 921/922/923/ 940/941/942/ 943/944/945/ 946/947/949/ 953/954/955/ 960/961/970/ 972/973/975
BA20.10-P-1003-01M	Bolt for coolant thermostat housing	M6	Nm	14

# Nm Coolant pump, coolant thermostat

Number		Designation			Engine 113.987/988/ 990/991	Engine 113.989
BA20.10-P	-1003-01L	Bolt for coolant thermostat housing	M6	Nm	14	14