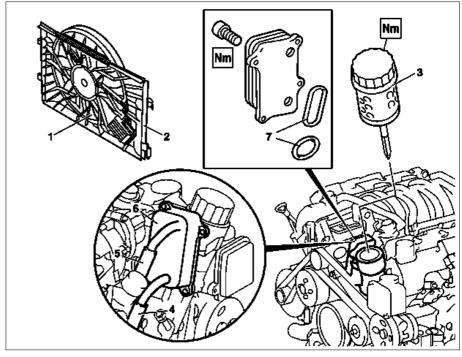
AR18.30-P-3481CA Remove/install oil-water heat exchanger at oil filter 22.1.09
ENGINE 112 in MODEL 170, 202, 203, 208.365 /465, 209, 210, 220
ENGINE 113 in MODEL 220

ENGINE 113.981 in MODEL 163.174 **ENGINE** 113.968 in MODEL 209.375 /475 **ENGINE** 112.913 in MODEL 211.061 /261 **ENGINE** 112.949 in MODEL 211.065 /265 **ENGINE** 113.967 in MODEL 211.070 /270 **ENGINE** 113.963 in MODEL 230.475 **ENGINE** 113.987 in MODEL 209.376 /476 **ENGINE** 113.965 in MODEL 163.175 **ENGINE** 112.917 in MODEL 211.080 /280 **ENGINE** 112.954 in MODEL 211.082 /282 **ENGINE** 113.969 in MODEL 211.083 /283 **ENGINE** 113.988 in MODEL 203.076 /276

Shown on engine 112 without air pump

- 2 Fan shroud
- 3 Oil filter housing cap
- 4 Coolant line
- 5 Coolant line
- 6 Oil/water heat exchanger
- 7 Sealing rings



P18.30-2024-06

XX	Remove/install		
⚠ Danger!	Risk of death caused by vehicle slipping or toppling off the lifting platform.	Align vehicle between columns of vehicle lift and position four support plates at vehicle lift support points specified by vehicle manufacturer.	AS00.00-Z-0010-01A
1	Unclip cover on front side of engine	Model 211, 220, 230	
2.1	Remove engine cover with integrated air filter	Except model 170.466, 203.065 /076 /265 /276, 209.376 /476 from 24.4.04, 220.074 /174 Remove engine cover or air filter by pulling it vertically up and off the cylinder head covers.	
2.2	Remove air filter housing	Model 170.466, 203.065 /265, 220.074 /174	AR09.10-P-1150SVK
		Model 203.076 /276, 209.376 /476 from of 24.4.04	AR09.10-P-1150AC
3.1	Remove fan shroud (2) together with electric fan	Model 202, 208, 210, 220, 230 i Before removal of fan shroud (2) disconnect connector for electric fan. Model 202, 208, 210 Model 220, 230	AR20.40-P-6800AB
3.2	Remove electric fan	Model 163, 170, 203, 209	A1120.40-1 -0000AB
5.2	Tionibye diceine iair	i On model 163 unscrew bolts at bottom of fan shroud (2).	
		Model 163	AR20.40-P-5000GH
		Model 170	AR20.40-P-5000SV
		Model 209, 203 except model 203.076 /276	AR20.40-P-5000PV
		Model 203.076 /276	AR20.40-P-5000AC

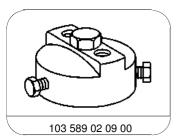
4	Unscrew oil filter housing cover (3)	Nm	*BA18.20-P-1001-01D	
		[3,	*103589020900	
⚠ Danger!	Risk of injury to skin and eyes caused by	Do not open cooling system unless coolant	AS20.00-Z-0001-01A	
	scalding from contact with hot coolant spray.	temperature is below 90 °C. Open cap slowly		
	Risk of poisoning caused by swallowing coolant.	and release the pressure. Do not pour coolant into beverage containers.		
	Coolant.	Wear protective gloves, protective clothing		
		and safety glasses.		
;	Drain coolant at radiator	i Model 163: To drain coolant disconnect		
		bottom coolant line from radiator or coolant		
		pump.		
		Model 163, 202, 208, 210, 211, 220	AR20.00-P-1142HA	
		Model 170	AR20.00-P-1142SV	
		Model 230	AR20.00-P-1142RVK	
		Model 203, 209	AR20.00-P-1142PV	
(3)	Notes on coolant		AH20.00-N-2080-01A	
	Detach coolant lines (4, 5) from oil-water heat exchanger (6)			
7	Remove air pump	Only for engines with air pump		
		Model 163, 202, 208, 210, 211 Model 209.361 /365 /375 /461 /465 /475 Model 209.376 /476 up to 23.4.04 Model 170 except 170.466 Model 203 except 203.065 /076 /265 /276	AR14.30-P-7251A	
		Model 170.466	AR14.30-P-7251SVK	
		Model 203.065 /265	AR14.30-P-7251PVK	
		Model 209.376/ 476 as of 24.4.04	AR14.30-P-7251AC	
		Model 230	AR14.30-P-7251AA	
		Model 220 except 220.074 /174		
		Model 220.074 / 174	AR14.30-P-7251RVK	
}	Detach oil-water heat exchanger (6) from oil filter housing	i Installation: Install new sealing rings (7).		
		Nm	*BA18.30-P-1001-01B	
ı	Install in the reverse order			
10	Inspect cooling system for leaks	Model 163, 202, 208, 210, 211, 220 except 220.074 /174	AR20.00-P-1010HA	
		Model 170, 203, 209	AR20.00-P-1010P	
		Model 220.074 / 174 Model 230	AR20.00-P-1010RVK	

Nm Oil filter

Number	Designation		Engine 112.910/911/ 912/913/914/ 915/916/917/ 920/921/922/ 923/940/941/ 942/943/944/ 945/946/947/ 949/951/953/ 954/955/960/ 961/970/972/ 973/975	Engine 113.940/941/ 942/943/944/ 945/946/948/ 960/961/962/ 963/965/966/ 967/968/969/ 980/981/982/ 984/986	Engine 113.987/ 988	Engine 113.990/ 991/993
BA18.20-P-1001-01D	Screw cap on oil filter	Nm	25	25	25	25

Nm Oil cooling system

Number	Designation		Engine 112	Engine 113
BA18.30-P-1001-01B	Oil-water heat exchanger on oil filter housing	Nm	11	9



Wrench socket