



D6

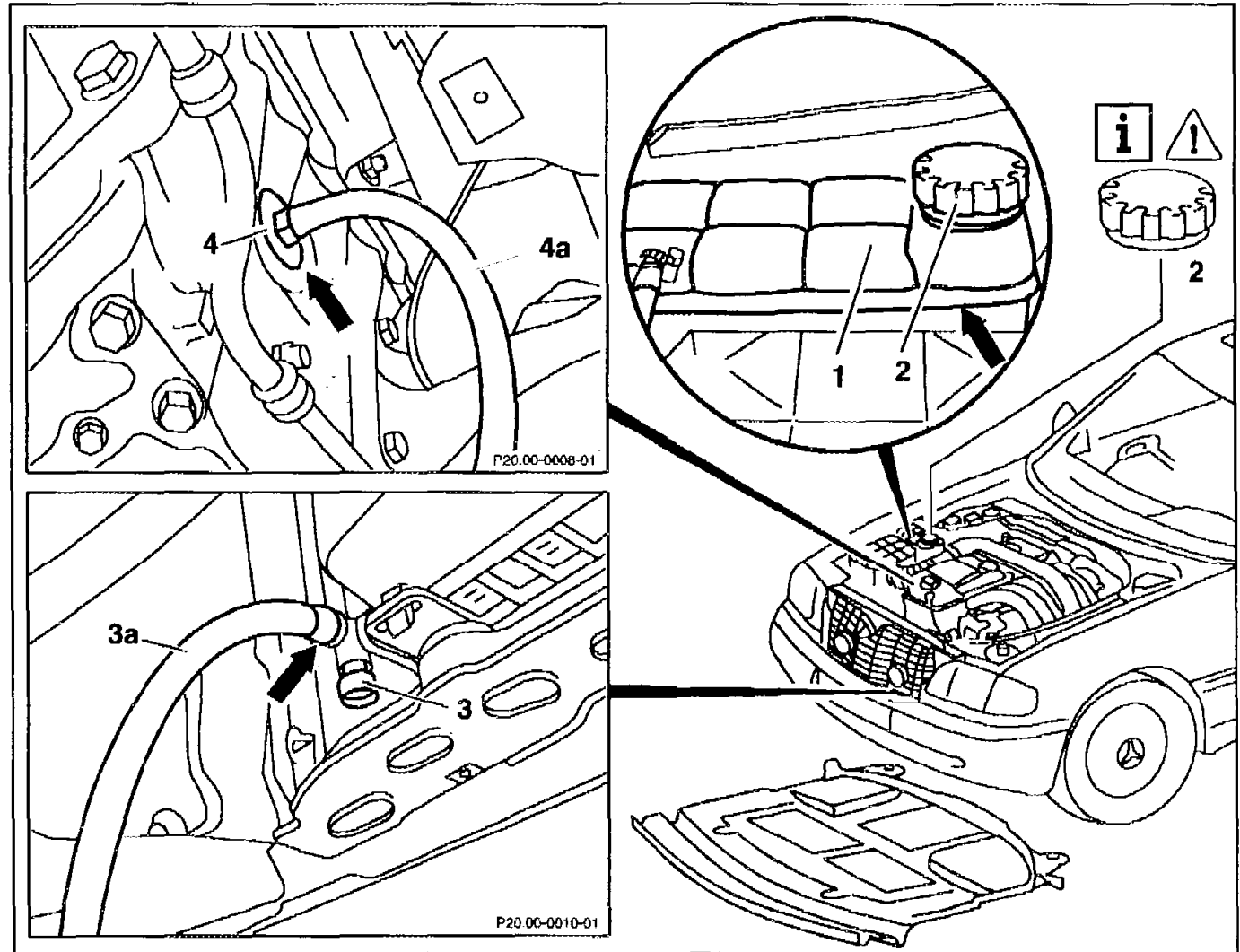
AR20.00-P-1142HW

Draining, filling system with engine coolant

9.7.97

**ENGINE 602.982, 604, 605, 606**

- 1 Coolant expansion reservoir
- 2 Cooling system cap
- 3 Radiator drain plug
- 3a Drain hose (inner diameter 12 mm)
- 4 Crankcase drain plug
- 4a Drain hose (inner diameter 14 mm)



	Draining system		
<p><b>⚠ Danger!</b></p> <p>1</p>	<p><b>Risk of injury</b> to skin and eyes from scalding from hot coolant which splashes out. <b>Risk of poisoning</b> from swallowing coolant.</p> <p>Open cap of expansion reservoir or radiator (2)</p>	<p>Do not open the cap of the expansion reservoir or radiator unless the coolant temperature is below 90 °C. Carefully turn cap to the first detent or slowly about 1/2 turn. Wear protective clothing.</p> <p><b>i</b> Cap (2)</p> <p>Cap with detent: carefully turn cap to the first detent, release pressure and then unscrew cap.</p> <p>2-stage cap: turn cap half a turn anti-clockwise, release pressure and then unscrew cap.</p>	<p>AS20.00-Z-0001-01A</p> <p><b>J17</b></p>
<p>2</p> <p><b>i</b></p>	<p>Drain coolant at radiator or crankcase</p> <p>Dispose of coolants</p>	<p>Collect coolant</p> <p>Pay attention to legal requirements or local wastewater regulations.</p> <p>See Environmental Protection Catalog issued by MBVD/PWU for workshops located in Germany.</p>	
	Filling system		
<b>i</b>	Notes on coolant		<p>AH20.00-N-2080-01A</p> <p><b>D17</b></p>
3	Tighten drain plugs at radiator or crankcase	<b>Nm</b> Engine 602.982	BA01.40-N-1002-01B



		Engines 604, 605, 606	BA01.40-P-1004-01A
4	Pour in coolant	Engine 602.982 Engines 604, 605, 606	BF20.00-P-1001-02D BF20.00-P-1001-02E
	Note on coolant level		AH20.00-P-1142-01A <b>J16</b>
5	Bleed cooling system	Without auxiliary heater (code 228)	AR20.00-P-1142-06GA <b>B16</b>
6	Inspect cooling system for leaks		AR20.00-P-1010HA <b>P5</b>

## Crankcase, timing case, end cover

Number	Designation	Engines 602.982/ 983
BA01.40-N-1002-01B	Coolant drain connection of crankcase	Nm 30

## Crankcase, timing case, end cover

Number	Designation	Engines 604, 605, 606
BA01.40-P-1004-01A	Drain connection of crankcase	Nm 30

 Cooling system

Number	Designation	Engine 602.982
BF20.00-P-1001-02D	Cooling system Total capacity	without AC Ltrs 8.75
		with AC Ltrs -
	Antifreeze/corrosion	without AC Ltrs 4.5
	inhibitor down to -37 °C	with AC Ltrs -
	Antifreeze/corrosion	without AC Ltrs 5.0
	inhibitor down to -45 °C	with AC Ltrs -
	Specifications for service	Sheet 310.1
	products	Sheet -
		Sheet 325.2


 Cooling system

Number	Designation	Engines 604.910/915 without AC	Engines 604.910/915 with AC	Engines 605.910/960 /962		
BF20.00-P-1001-02E	Cooling system	Total capacity	Ltrs	6.0	7.0	7.5
		Antifreeze/corrosion inhibitor down to -37 °C	Ltrs	3.0	3.5	3.75
		Antifreeze/corrosion inhibitor down to -45 °C	Ltrs	3.5	4.0	4.25
		Specifications for service products	Sheet	310.1	310.1	310.1
			Sheet	325.2	325.2	325.2


 Cooling system

Number	Designation	Engine 605.911	Engine 606.910	Engine 604.912/917 without AC
BF20.00-P-1001-02E	Cooling system	Total capacity	Ltrs	7.5
		Antifreeze/corrosion inhibitor down to -37 °C	Ltrs	3.75
		Antifreeze/corrosion inhibitor down to -45 °C	Ltrs	4.25
		Specifications for service products	Sheet	310.1
			Sheet	325.2


 Cooling system

Number	Designation	Engines 604.912/917 with AC	Engine 605.912	Engines 605.910/960 /962
BF20.00-P-1001-02E	Cooling system	Total capacity	Ltrs	7.0
	Antifreeze/corrosion inhibitor down to -37 °C	Ltrs	3.5	3.75
	Antifreeze/corrosion inhibitor down to -45 °C	Ltrs	4.0	4.25
	Specifications for service products	Sheet	310.1	310.1
		Sheet	325.2	325.2


 Cooling system

Number	Designation	Engine 606.961 with AC	Engine 606.962
BF20.00-P-1001-02E	Cooling system	Total capacity Ltrs	10.0
		Antifreeze/corrosion inhibitor down to -37 °C Ltrs	9.0
		Antifreeze/corrosion inhibitor down to -45 °C Ltrs	5.0
		Specifications for service products Sheet	4.5
		Sheet	5.0