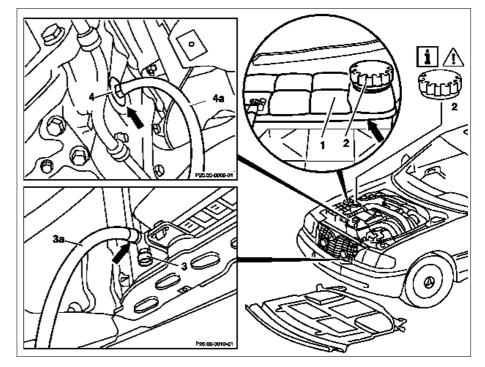
- Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467
- Engine 112 in model 163 112.945 in model 463.209/232/233/244/245/250
- Engine
- Engine 113 (except 113.991) in model 215 (except 215.374)
- Engine 113 (except 113.991) in model 220 (except 220.074/174)
- Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283
- Engine 113 in model 163
- 113.962 in model 463.206/240/241/247/248/249/254 Engine
- Engine 113.982 in model 463.241/243/246
- Engine 137 in model 215, 220

Shown on MODEL 202

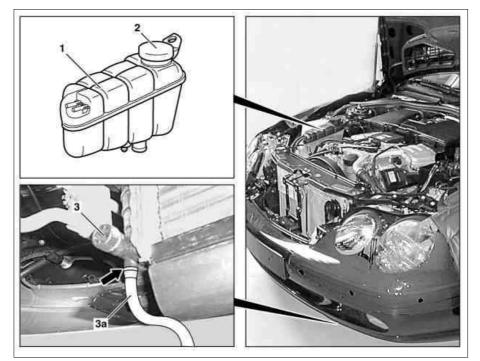
- Coolant expansion reservoir 1
- 2 Cooling system cap
- 3 Drain screw for radiator
- 3a Drain hose
- Drain screw for cylinder crankcase 4
- Drain hose 4a



P20.00-0215-06

Shown on model 215 with engine 137

- Coolant expansion reservoir 1
- 2 Cooling system cap
- 3 Drain screw for radiator
- 3a Drain hose



P20.00-2045-06

⚠ Danger !	Risk of injury to skin and eyes suffering scalding from contact with hot coolantspray. Risk of poisoning from 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
🛆 Danger !	Risk of death caused by vehicle slipping or toppling off of the lifting platform.	Align vehicle between vehicle lift columns and position the four support plates at the vehicle lift support points specified by the vehicle manufacturer.	AS00.00-Z-0010-01A
	Notes on coolant		AH20.00-N-2080-01A
-	Drain off		
1	Open engine hood		
2	Detach ground line from battery	Only when draining coolant at cylinder crankcase, right	
		Engine 112 in model 129, 163, 202, 208, 210 Engine 113 in model 129, 163, 202, 208, 210	AR54.10-P-0003A
		Engine 112 in model 211.061/065/080/082 Engine 113 in model 211.070/083 Engine 112 in model 211.261/265/280/282	AR54.10-P-0003T AR54.10-P-0003TA
		Engine 112 in model 211.201/203/200/202 Engine 113 in model 211.270/283	AR54.10-P-00051A
		Engine 112 in model 220 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220	AR54.10-P-0003I
		(except 220.074/174) Engine 137 in model 215, 220 Engine 112 in model 230.467	
		except code P99 (Special model "AMG Black Series")	AR54.10-P-0003R
		Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113.962 in model 463.206/240/247/249/254	AR54.10-P-0003G
		Engine 113.962 in model 463.248 except code 979 (Special protection MB Guard)	
		Engine 113.962/982 in model 463.241 except code 979 (Special protection MB Guard)	
		Engine 113.982 in model 463.243/246 Engine 113.962 in model 463.241 with code 979 (Special protection MB Guard) with code ZS4 (Special protection version	AR54.10-P-0003PV
		FB4) with code ZS6 (Special protection version FB6)	
		with code ZS7 (Special protection version FB7) Engine 113.982 in model 463.241 with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery)	
		with code ZS4 (Special protection version FB4) with code ZS6 (Special protection version FB6) with code ZS7 (Special protection version	
		FB7) Engine 113.962 in model 463.248 with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery) with code ZS6 (Special protection version	AR54.10-P-0003PM
		FB6) with code ZS7 (Special protection version FB7)i Do not connect no-load current retention	
3	Open cooling system cap (2) at coolant expansion reservoir (1)	unit. i Pay attention to different versions. Cooling system cap (2) with notch: Carefully turn cooling system cap (2) to first predetent, relieve overpressure, then unscrew cooling system cap (2)	
		cooling system cap (2). 1-stage and 2-stage cooling system cap (2): Turn cooling system cap (2) by 1/2 revolution anti-clockwise, release overpressure, then unscrew cooling system cap (2).	
۱.	Raise vehicle		

© Daimler AG, 4/3/18, L/01/18, ar20.00-p-1142ha, Drain/pour in coolant Page 2 of 10 Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112 in model 163 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113 ...

5.1	Remove lower engine compartment paneling	Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112 in model 163 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113 in model 163 Engine 113 in model 163 Engine 113 in model 129, 202, 208, 210 Engine 113.942 in model 163.172 Engine 113.981 in model 163.175 Engine 113.981 in model 163.174 Engine 112 in model 211.061/065/080/082/261/265/280/282 Engine 113 in model 211.070/083/270/283 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 137 in model 215, 220 Engine 137 in model 215, 220	AR61.20-P-1105AB AR61.20-P-1105GH AR61.20-P-1105T AR61.20-P-1105M
		except code P99 (Special model "AMG Black	AR01.20-F-1105R
5.2	Remove underride guard	Series") Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246	
6	Remove air deflector shield	Engine 113.942 in model 163	
	Drain coolant at radiator		
8	Push drain hose (3a) onto radiator drain screw (3)	211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220	
8	Open radiator drain screw (3) and drain coolant	Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220 i Catch coolant in a suitable container.	
9	Tighten radiator drain screw (3) and detach drain hose (3a) from radiator drain screw (3)	Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220	

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	Pour in		
15	Lower vehicle		
		Engine 112 in model 129, 202, 208, 210, 220, 230.467 Engine 112.945 in model 463.209/232/233/244/245/250Coolant drain plug on crankcase	DAZU.UU-T- IUU I-UZB
		Engine 113.944 in model 202 Engine 113.961 in model 129 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.967 in model 211 Engine 113.969 in model 211 Engine 113.980 in model 210 Engine 113.982 in model 463.241/243/246 Engine 113.984 in model 208Crankcase discharge fitting	*BA20.00-P-1001-02B
		Engine 113.940 in model 210 Engine 113.941/948/960/966/986 in model 220 Engine 113.943 in model 208	*BA01.40-P-1003-01C
		Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220	
14	Tighten cylinder crankcase drain screw (4) and detach drain hose (4a) from cylinder crankcase drain screw (4)	211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112.945 in model 463.209/232/233/244/245/250	
		Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220 I Catch coolant in a suitable container.	
		230.467 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174)	
13	Open cylinder crankcase drain screw (4) and drain coolant	Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220 Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220,	
		463.209/232/233/244/245/250 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113.962 in model 463.206/240/241/247/248/249/254	
12	Drain coolant at cylinder crankcase Push drain hose (4a) onto cylinder crankcase drain screw (4)	Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112.945 in model	
	coolant pump	Engine 113 in model 163 i Installation: Replace hose clamp. Mm Hose clamp	*BA20.20-P-1004-01A
11	Attach lower coolant hose to radiator or	i Catch coolant in a suitable container. Engine 112 in model 163	
10	Remove lower coolant hose from radiator or coolant pump and drain coolant	Engine 112 in model 163 Engine 113 in model 163	

16 ••• •	Pour in coolant and bleed cooling system Notes on coolant level Notes on coolant level	Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112 in model 163 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220	AR20.00-P-1142-04AK AH20.00-P-1142-01V AH20.00-P-1142-01GH
₩ [®] BB	Anticorrosion/antifreeze agents (Sheet 325.0)		BB00.40-P-0325-00A
₩°BB	Coolant specifications		BB00.40-P-0310-01A
		⊥ Re-use clean coolant. ☑ Engine 112.910/920 in model 202 Engine 112.911/921/941 in model 210 Engine 112.913/917/949/954 in model 211 Engine 112.922/944/972 in model 220 Engine 112.923/943 in model 129 Engine 112.940 in model 208 Engine 112.942 in model 163 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 112.970, 113.965 in model 163 Engine 112.975 in model 220 Engine 113.940/980 in model 210 Engine 113.941/960 in model 220 Engine 113.942/981 in model 163 Engine 113.942/981 in model 208 Engine 113.944/986 in model 208 Engine 113.944/986 in model 202 Engine 113.948/966 in model 220 Engine 113.948/966 in model 220 Engine 113.941/248/249/254 Engine 113.942 in model 129 Engine 113.942 in model 129 Engine 113.942 in model 202 Engine 113.942 in model 204 Engine 113.942 in model 205 Engine 113.942 in model 205	*BF20.00-P-1001-02K *BF20.00-P-1001-02M *285589002100 *169589009100
17	Check cooling system for leaktightness	Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112 in model 163 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113 (except 113.991) in model 215 (except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engine 113 in model 163 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246	AR20.00-P-1010HA
18	Install air deflector shield	Engine 113.942 in model 163	
19.1	Install underride guard	Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246	

19.2	Install lower engine compartment paneling	Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467	
		Engine 112 in model 163 Engine 113 (except 113.991) in model 215	
		(except 215.374) Engine 113 (except 113.991) in model 220 (except 220.074/174)	
		Engine 113 in model 129, 202, 208, 210, 211.070/083/270/283	
		Engine 113 in model 163 Engine 137 in model 215, 220	
		Engine 112 in model 129, 202, 208, 210 Engine 113 in model 129, 202, 208, 210	AR61.20-P-1105AB
		Engine 113.942 in model 163.172 Engine 113.965 in model 163.175 Engine 113.981 in model 163.174	AR61.20-P-1105GH
		Engine 112 in model 211.061/065/080/082/261/265/280/282 Engine 113 in model 211.070/083/270/283	AR61.20-P-1105T
		Engine 112 in model 220 Engine 113 (except 113.991) in model 215 (except 215.374)	AR61.20-P-1105M
		Engine 137 in model 215, 220	
		Engine 112 in model 230.467	AR61.20-P-1105R
		except code P99 (Special model "AMG Black Series")	
20 21	Lower vehicle Connect ground line to battery	Only when coolant has been drained at	
		cylinder crankcase on the right Engine 112 in model 129, 163, 202, 208, 210	AR54.10-P-0003A
		Engine 113 in model 129, 163, 202, 208, 210 Engine 112 in model 211.061/065/080/082	AR54.10-P-0003T
		Engine 113 in model 211.070/083 Engine 112 in model 211.261/265/280/282	AR54.10-P-0003TA
		Engine 113 in model 211.270/283 Engine 112 in model 220	AR54.10-P-0003I
		Engine 113 (except 113.991) in model 215 (except 215.374)	
		Engine 113 (except 113.991) in model 220 (except 220.074/174) Engine 137 in model 215, 220	
		Engine 112 in model 230.467	AR54.10-P-0003R
		except code P99 (Special model "AMG Black Series")	
		Engine 112.945 in model 463.209/232/233/244/245/250	AR54.10-P-0003G
		Engine 113.962 in model 463.206/240/247/249/254	
		Engine 113.962 in model 463.241/248 except code 979 (Special protection MB	
		Guard) Engine 113.982 in model 463.241	
		except code 979 (Special protection MB Guard) Engine 113.982 in model 463.243/246	
		Engine 113.962 in model 463.248 with code 979 (Special protection MB Guard)	AR54.10-P-0003PM
		with code E26 (Auxiliary battery) with code ZS6 (Special protection version	
		FB6) with code ZS7 (Special protection version FB7)	
		Engine 113.962/982 in model 463.241 with code 979 (Special protection MB Guard)	AR54.10-P-0003PV
		with code E26 (Auxiliary battery) with code ZS4 (Special protection version FB4)	
		with code ZS6 (Special protection version FB6)	
		with code ZS7 (Special protection version FB7)	
22	Perform basic programming	Model 463.206/ 209/ 232/ 233/ 240/ 241 Only if ground line for battery has been detached	
		Engine 112, 113 in model 129	AR00.19-P-0200A
		Engine 112, 113 in model 163 Engine 112, 113 in model 202, 208	AR00.19-P-0200GH AR00.19-P-0200C
		Engine 112, 113 in model 210	AR00.19-P-0200D

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		Engine 112 in model 211.061/065/080/082/261/265/280/282 Engine 113 in model 211.070/083/270/283 Engine 137 in model 215, 220 Engine 112 in model 230.467 Engine 112.945 in model 463.244/245/250 Engine 113.962 in model 463.247/248/249/254	AR00.19-P-0200T AR00.19-P-0200M AR00.19-P-0200R AR00.19-P-0200P
		Engine 113.982 in model 463.243/246	
23	Read out and clear the fault memory using Star Diagnosis	Only if ground line for battery has been detached	
24	Close engine hood		

Nm Cylinder crankcase, timing case cover, end cover

Number	Designation		Engine 113.940/941/942/94 3/944/948/960/961/9 62/963/964/965/966/ 967/968/969/971/98 0/981/982/984/986/9 92/995
BA01.40-P-1003-01C	Crankcase discharge fitting	Nm	12

Nm Engine cooling, general

Number	Designation		Engine 112, 113.940/941/942/94 3/944/948/960/961/9 63/964/965/966/967/ 968/971/980/981/98 4/986/987/988/990/9 91/992/995
BA20.00-P-1001-02B	Coolant drain plug on crankcase	Nm	12

Nm Radiator, coolant hoses

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

Cooling system

Number	Designation			Engine 112.910/920 in model 202 Engine 112.940 in model 208	Engine 112.911/921/941 in model 210
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈9,5	≈10,0
	anticorr	Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈4,75	≈ 5,0
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈5,25	≈5,5
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0325-00A	BB00.40-P-0325-00 A

Cooling system

Number	Designation			Engine 112.913/917/949/954 in model 211	Engine 112.922/944/972 in model 220
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈9,5	≈10,5

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Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈4,75	≈5,0
Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈5,25	≈5,5
Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
Sheet		BB00.40-P-0325-00A	BB00.40-P-0325-00 A

Cooling system

Number	Designation			Engine 112.923/943 in model 129	Engine 112.942 in model 163 Engine 113.940/980 in model 210 Engine 113.943/984 in model 208 Engine 113.944 in model 202
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈11,75	≈11,0
		Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈6,0	≈5,5
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈6,5	≈6,0
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0325-00A	BB00.40-P-0325-00 A

Cooling system

Number	Designation			ENGINE 112.945 in MODEL 463.209/ 232/233/244/245/ 250	Engine 112.970, 113.965 in model 163
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈11,5	≈12,0
	anticor antifree	Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈5,8	≈6,0
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈6,4	≈6,75
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0325-00A	BB00.40-P-0325-00 A

Cooling system

Number	Designation			Engine 112.973 in model 230.467	Engine 112.975 in model 220
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈ 10,8	≈ 10,4
		Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈5,4	≈5,2
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈6	≈ 5,7
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A

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Cooling system

Number	Designation			Engine 113.941/960 in model 220	Engine 113.942/981 in model 163
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈11,5	≈11,5
		Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈5,75	≈5,75
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈6,25	≈6,25
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0325-00A	BB00.40-P-0325-00 A

Cooling system

Number	Designation			Engine 113.948/966 in model 220	Engine 113.960/986 in model 215
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈11,6	≈11,5
		Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈5,8	≈5,75
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈6,4	≈6,25
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0325-00A	BB00.40-P-0325-00 A

Cooling system

Number	Designation			Engine 113.961 in model 129	ENGINE 113.962 in MODEL 463.206/ 240/241/247/248/ 249/254
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈ 12,75	≈12
		Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈6,25	≈6
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈7,0	≈6,6
		Sheet		BB00.40-P-0310-01/	A BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0325-00/	A BB00.40-P-0325-00 A

Cooling system

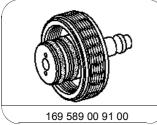
Number	Designation			Engine 113.967/969 in model 211	Engine 113.982 in model 463.241/243/246
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈10,75	≈11,9
		Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈5,25	≈5,95
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈6,0	≈6,55
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-0 A

© Daimler AG, 4/3/18, L/01/18, ar20.00-p-1142ha, Drain/pour in coolant Page 9 of 10 Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine 112 in model 163 Engine 112.945 in model 463.209/232/233/244/245/250 Engine 113 ...

Sheet	BB00.40-P-0325-00A	BB00.40-P-0325-00
		Α

Cooling system

Number	Designation			Engine 137.970
BF20.00-P-1001-02M	Cooling system	Total filling capacity	Liter	≈ 12
		Filling capacity of anticorrosion/ antifreeze down to -37°C	Liter	≈6
		Filling capacity of anticorrosion/ antifreeze down to -45°C	Liter	≈6,6
		Sheet		BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0325-00 A



Test cap



Cooler vacuum filling device