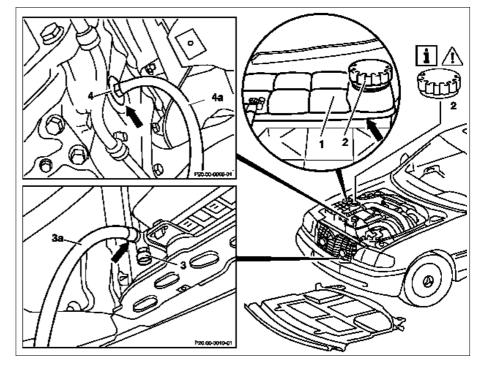
- Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467
- Engine 112 in model 163 112.945 in model 463.209/232/233/244/245/250
- Engine
- Engine 113 (except 113.991) in model 215 (except 215.374)
- 113 (except 113.991) in model 220 (except 220.074/174) Engine
- Engine 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

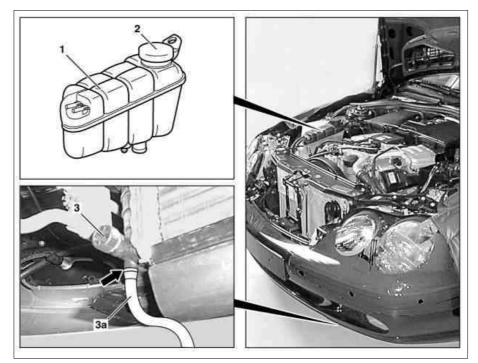
- Coolant expansion reservoir 1
- 2 Cooling system cap
- 3 Drain screw for radiator
- 3a Drain hose
- Drain screw for cylinder crankcase 4
- Drain hose 4a



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

Drain off	
Notes on coolant	AH20.00-N-2080-01A

Page 1 of 10

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1	Open 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	AR54.10-P-0003T
		Engine 112 in model 211.261/265/280/282 Engine 113 in model 211.270/283	AR54.10-P-0003TA
		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
		up to model year 2013 Engine 113.962 in model	
		463.206/240/247/249/254 up to model year 2013	
		Engine 113.962 in model 463.248 up to model year 2008	
		except code 979 (Special protection MB Guard)	
		Engine 113.962/982 in model 463.241	
		up to model year 2008 except code 979 (Special protection MB	
		Guard) Engine 113.982 in model 463.243/246	
		up to model year 2013 Engine 113.962/982 in model 463.241	AR54.10-P-0003PV
		up to model year 2019 with code 979 (Special protection MB Guard)	
		with code E26 (Auxiliary battery) with code ZS4 (Special protection version	
		FB4) Engine 113.962/982 in model 463.241	
		up to model year 2019 with code 979 (Special protection MB Guard)	
		with code E26 (Auxiliary battery) with code ZS6 (Special protection version	
		FB6)	
		Engine 113.962/982 in model 463.241 up to model year 2019	
		with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery) with code ZS7 (Special protection version	
		FB7) Engine 113.962 in model 463.248	AR54.10-P-0003PM
		up to model year 2015 with code 979 (Special protection MB Guard)	
		with code E26 (Auxiliary battery) with code ZS6 (Special protection version FB6)	
		Engine 113.962 in model 463.248 up to model year 2015	
		with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery)	
		with code ZS7 (Special protection version FB7)	
		i Do not connect no-load current retention	
3	Open cooling system cap (2) at coolant	unit.	
	expansion reservoir (1)	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). 1-stage and 2-stage cooling system cap (2):	
		Turn cooling system cap (2) by 1/2 revolution anti-clockwise, release overpressure, then	
4	Raise vehicle	unscrew cooling system cap (2).	
L		1	1

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	
		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	AR61.20-P-1105AB
		Engine 113 in model 129, 202, 208, 210 Engine 113.942 in model 163.172	AR61.20-P-1105GH
		Engine 113.965 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	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 113 (except 113.991) in model 220 (except 220.074/174)	
		Engine 137 in model 215, 220	
		Engine 112 in model 230.467 except code P99 (Special model "AMG Black	AR61.20-P-1105R
		Series")	
5.2	Remove 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	
6	Remove air deflector shield	Engine 113.942 in model 163	
	Drain coolant at radiator		
7	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	Engine 112 in model 129, 202, 208, 210,	
	coolant	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 133 in model 215, 220	
		i Collect coolant in a suitable container.	
9	Tighten radiator drain screw (3) and detach	Engine 112 in model 129, 202, 208, 210,	
	drain hose (3a) from 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	
1	1	LIGUE 107 III IIIOUEI 210, 220	

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Engine 113 in model 163 Engine 113 in model 163 11 Attach lower coolant has to radiator of coolant pump Engine 112 in model 163 TBACD 2019-1004-014 11 Drain coolant at cylinder crankcase Engine 113 in model 163 TBACD 2019-1004-014 12 Pumh drain hose (4a) onto cylinder crankcase Engine 113 in model 163 TBACD 2019-1004-014 12 Pumh drain hose (4a) onto cylinder crankcase Engine 112 in model 163 TBACD 2019-1004-014 13 Open cylinder crankcase Engine 112 in model 163 TBACD 2019-1004-014 13 Open cylinder crankcase drain screw (4) TBI Streep 113				
11 Allech lower coolant to be to radiator or coolant pump Engine 113 in model 163 Engine 113 in model 163 E	10		Engine 113 in model 163	
Drain coolant at cylinder crankcase drain serew (4) Engine 112 in model 120, 202, 203, 210, 211, 05109500002261265280/282, 220, 230, 447 12 Pub drain hose (4a) onto cylinder crankcase drain serew (4) Engine 112 AdS in model 443, 204232232344245(55) 13 Open cylinder crankcase drain screw (4) and drain coolant Engine 112 AdS in model 120, 202, 208, 210, 211, 070082270283 13 Open cylinder crankcase drain screw (4) and drain coolant Engine 112 (ancept 113, 991) in model 220 (except 220, 774/174) 14 Tiphten cylinder crankcase drain screw (4) and drain coolant Engine 112 (ancept 113, 991) in model 220 (except 220, 774/174) 14 Tiphten cylinder crankcase drain screw (4) and drain coolant Engine 113 in model 120, 202, 208, 210, 211, 0700822702824 14 Tiphten cylinder crankcase drain screw (4) add and neose (4a) from cylinder crankcase drain screw (4) and Engine 113 model 120, 202, 208, 210, 211, 0700822702824 14 Tiphten cylinder crankcase drain screw (4) add and screw (4) Engine 113 model 120, 202, 208, 210, 211, 0700822702824 14 Tiphten cylinder crankcase drain screw (4) add and screw (4) Engine 113 model 120, 202, 208, 210, 211, 0700822702824 13 Tiphten cylinder crankcase drain screw (4) add and screw (4) Engine 113 model 120, 202, 208, 210, 211, 0700822702824 14 Tiphten cylinder crankcase drain screw (4) add and screw (4) <td>11</td> <td></td> <td>Engine 112 in model 163 Engine 113 in model 163 i Installation: Replace hose clamp. Engine 112 in model 163</td> <td>*BA20.20-P-1004-01A</td>	11		Engine 112 in model 163 Engine 113 in model 163 i Installation: Replace hose clamp. Engine 112 in model 163	*BA20.20-P-1004-01A
12 Push drain hose (4a) onto cylinder crankcase drain sorew (4) Englie 112 in model 129, 202, 208, 210, 211, 0610650000222617625(280/382, 220, 230,487 12 20,487 Englie 1122(30,417,41) 12 20,487 Englie 1122(30,417,41) 13 Open cylinder crankcase drain screw (4) ard drain coolant Englie 113(80,202,208,210, 211,000500802231265(280/282,200,208,210, 211,0005008002221765(280/282,200,208,210, 211,00050080082231265(280/282,200,208,210, 211,00050080082231265(280/282,200,208,210, 211,00050080082231265(280/282,200,208,210, 211,00050080082231265(280/282,200,208,210, 211,00050080082231233244(245256) 13 Open cylinder crankcase drain screw (4) ard drain coolant Englie 113 in model 129, 202, 208, 210, 211,00050080082231233244(245256) 14 Tighten cylinder crankcase drain screw (4) ard drain coolant Englie 113 in model 129, 202, 208, 210, 211,070053327427248242550 14 Tighten cylinder crankcase drain screw (4) datach drain hous (4a) from cylinder crankcase drain screw (4) Englie 113 in model 120, 202, 208, 210, 211,070083272123244(247248424526) Englie 113 in model 120, 202, 208, 210, 211,070083272123244(247248424526) Englie 113,981 in model 210, Englie 113,981 in model 210, Englie 113,981 in model 210, 202, 203, 467 14 Tighten cylinder crankcase drain screw (4) Englie 113,981 in model 120, 202, 202, 202, 202, 202, 202, 202, 2		Due la constant est est la deux encoder en e		
13 Open cylinder crankcase drain screw (4) and drain toce (4) model 210 (except 113.991) in model 215 (except 113.991) in model 220 (except 213.962 in model 43.2012/3492/34 13 Open cylinder crankcase drain screw (4) and drain coolant Engine 113.982 in model 32.5, 220, 28, 210, 211, 64 (065/080/082, 220, 208, 210, 211, 64 (065/080/082, 220, 208, 210, 211, 64 (065/080/082, 220, 208, 210, 211, 64 (065/080/082, 220, 208, 210, 211, 64 (065/080/082, 220, 208, 210, 211, 62 (065/080/082, 220, 208, 210, 211, 62 (065/080/082, 220, 208, 210, 211, 574) 14 Tighten cylinder crankcase drain screw (4) and drain coolant Engine 113.991 in model 220 (except 113.991 i) in model 220 (except 213.574) 14 Tighten cylinder crankcase drain screw (4) and drain hose (4a) from cylinder crankcase drain screw (4) and drain hose (4a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain screw (4) and drain hose (2a) from cylinder crankcase drain scr	12	Push drain hose (4a) onto cylinder crankcase	211.061/065/080/082/261/265/280/282, 220, 230.467	
13 Open cylinder crankcase drain screw (4) and fain coolant Engine 113.982 in model 129.202.208.210.211.05706090052216256280282.220.250.467 13 Open cylinder crankcase drain screw (4) and fain coolant Engine 112 In model 129.202.208.210.211.0570690005221625920282.220.250.467 14 Charlen coolant Engine 112 In model 129.202.208.210.211.0570690005221612651200282.220.250.467 14 Tighten cylinder crankcase drain screw (4) and fain coolant Engine 113.082 in model 129.202.208.210.211.05706900052261126512801282.220.250.258.210.211.05706900052261126912801282.220.258.210.211.0570690052701283 14 Tighten cylinder crankcase drain screw (4) and fain model 129.202.208.210.211.057065090052261126512801282.220.202.208.210.211.05706509005226112801282.220.202.208.210.211.05706509005226112801282.220.208.210.211.05706509005226112552801282.220.202.208.210.211.0570650900522612552801282.220.202.208.210.211.0570650900522612552801282.220.202.208.210.211.0570650900522612552801282.220.202.208.210.211.0570650900522612552801282.200.220.208.210.211.0570650900522612552801282.200.220.208.210.211.0570650900522612552801282.200.220.208.210.211.0570650900522612552801282.200.220.208.210.211.0570650900522612552801282.200.220.208.210.211.05706509005276128512801282.200.27113.991) in model 215 (except 113.991) in model 216 (except 202.074174) Hangine 113.991 in model 215 (except 113.991) in model 210 (except 202.074174) Hangine 113.991 in model 202 (except 202.074174) Hangine 113.994 in model 202 (except 202.074174) Hangine 113.994 in model 202 (except 202.074174) Hangine 113.994 in model 202 (except 202.074174) Hangine 113.			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,	
drain coolant 211061/06508008/2261/255/280/282, 220, 230, 243/45/250 Engline 112.9451 in model H32.00728/23233244/24/245/250 Engline 113.9471 in model H32.90728/233324/24/24/24/25/250 Engline 113.9471 in model H32.90728/233324/24/24/24/25/250 Engline 113.9471 in model H32.90728/174 Engline 113.9471 in model H32.9074/174 Engline 113.9471 in model H32.9074/174 Hardin Carankcase drain screw (4) and Engline 113.9871 in model H32.902.208, 210, 211.970/0083/270/284 H4 Tighten cylinder crankcase drain screw (4) and Engline 112.9 model H32.902.208, 210, 211.970/0083/270/284 H4 Tighten cylinder crankcase drain screw (4) and Engline 112.9 model H32.902.208, 210, 211.970/0083/270/284 H4 Tighten cylinder crankcase drain screw (4) and Engline 113.9871 in model H32.922.203.241/24.242.250 Engline 113.9872/23/23/244/24/25/250 Engline 113.9871 in model H32.922.208, 210, 221.970/07083/270.928 H3 Engline 113.9871 in model H33.9401 in model H32.922.228, 210, 221.9270/074/174 H4 Engline 113.9872/2802/282.100, 221.92.200.741/174 Engline 113.9871 in model H3.942.100.40-P-1003-01C Engline 113.9871 in model H3.9401 in model H3.942.100.40-P-1003-01C Engline 113.942.100.40			Engine 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246	
463.209/22/23/244/24/25/25 Engline 113 (secept 113.991) in model 215 (except 225.074/174) Engline 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engline 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engline 113 in model 129, 202, 208, 210, 211.070/083/270/283 Engline 113 in model 129, 202, 208, 210, 211.070/083/270/284 Engline 113 in model 215, 220 Image: Interpret 113 in model 215, 220 Image: Interpret 113 in model 215, 220 Image: Interpret 113 interpret 112 in model 215, 220 Image: Interpret 113 interpret 112 in model 215 (except 215.374) Engline 112 in model 215 (except 215.374) Engline 113 in model 215 (except 215.374) Engline 113 in model 215 (except 215.374) Engline 113 in model 215, 220 (except 215.374) Engline 113 in model 215, 220 (except 215.374) Engline 113.980 in model 216, 220 (except 215.374) Engline 113.980 in model 210 (except 215.374) Engline 113.980 in model 208 Engline 113.980 in model 208 Engline 113.980 in model 208 Engline 113.980	13	1 3	211.061/065/080/082/261/265/280/282, 220, 230.467	
211 070/083/270/283 Engine 113.982 in model 463.206/240/241/247/284/254 Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220 II Cellect coolant in a suitable container. 14 Tighten cylinder crankcase drain screw (4) and detach drain hose (4a) from cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (2) and detach drain hose (4a) from cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (1) and detach drain hose (4a) from cylinder 14 Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (2) and detach drain hose (4a) from cylinder Tighten cylinder crankcase drain screw (2) and detach drain hose (4a) from cylinder 14 Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (2) and cylinder crankcase drain screw (3) Tighten cylinder crankcase drain screw (4) 14 Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) 15 Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase 15 Lower vehicle Pour in Figure 113.94 in model 129. 202. 208. 210. 220. 220. 208. 210. 220. 220. 208. 210. 220. 220. 220. 220. 220. 220. 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	
14 Tighten cylinder crankcase drain screw (4) and Engine 112 in model 129, 202, 208, 210, 211, 061/065/080/082/082/282, 220, 230, 467 14 Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) 14 Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) 15 Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) 14 Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) 15 Lower vehicle Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase drain screw (4) 15 Lower vehicle Four in Tighten cylinder crankcase drain screw (4) Tighten cylinder crankcase			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	
14 Tighten cylinder crankcase drain screw (4) and detadin frain hose (4a) from 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 crankcase drain screw (4) Engine 112 (scept 113, 991) in model 215 (except 2215, 374) Engine 113 (sccept 113, 991) in model 220 (except 220, 074/174) Engine 113 (sccept 113, 991) in model 220 (except 220, 074/174) Engine 113 (sccept 113, 991) in model 220 (except 220, 074/174) Engine 113, 982 in model 463, 241/243/246 Engine 113 in model 129, 202, 208, 210, 211, 07/083/270/283 Engine 113, 942 in model 463, 241/243/246 Engine 113, 942 in model 463, 241/243/246 Engine 113.944 in model 200 Engine 113, 944 in model 202 Engine 113, 944 in model 202 *BA01.40-P-1003-01C Engine 113.944 in model 201 Engine 113.944 in model 202 Engine 113.944 in model 202 *BA01.40-P-1003-01C Engine 113.944 in model 202 Engine 113.944 in model 202 Engine 113.944 in model 202 *BA01.40-P-1003-01C Engine 113.944 in model 201 Engine 113.944 in model 202 Engine 113.944 in model 202 *BA01.40-P-1003-01C Engine 113.944 in model 202 Engine 113.944 in model 203 *BA01.40-P-1003-01C *BA01.40-P-1003-01C Engine 113.944 in model 208 Engine 113.944 in model 208 *Engine 113.944 in model 208 *BA01.40-P-1003-01C				
Engine 113.982 in model 463.241/243/246 Engine 137 in model 215, 220*BA01.40-P-1003-01CImmediationEngine 113.940 in model 210 Engine 113.944 in model 202 Engine 113.944 in model 202 Engine 113.961 in model 129 Engine 113.967 in model 211 Engine 113.967 in model 211 Engine 113.986 in model 211 Engine 113.986 in model 210 Engine 113.986 in model 211 Engine 113.986 in model 211 Engine 113.986 in model 210 Engine 113.986 in model 211 Engine 113.986 in model 210 Engine 113.986 in model 208 Crankcase discharge fitting Immed Engine 112.945 in model 208 Crankcase discharge fitting*BA20.00-P-1001-02B15Lower vehicleImmediateImmediate15Lower vehicleImmediateImmediatePour inImmediateImmediateImmediatePour inImmediateImmediateImmediate	14	detach drain hose (4a) from cylinder	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	
ImmEngine 113.940 in model 210 Engine 113.941/948/960/966/986 in model 220 Engine 113.941/948/960/966/986 in model 220 Engine 113.941 in model 208 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 113.980 in model 211 Engine 113.980 in model 210 Engine 113.984 in model 208Crankcase discharge fitting Imm*BA20.00-P-1001-02B15Lower vehiclePour in			Engine 113.982 in model 463.241/243/246	
Engine 113.967 in model 211 Engine 113.969 in model 211 Engine 113.980 in model 210 Engine 113.980 in model 210 Engine 113.982 in model 463.241/243/246 Engine 113.984 in model 208Crankcase discharge fitting Mm 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*BA20.00-P-1001-02B15Lower vehicleImage: Comparison of the compari			Engine 113.940 in model 210 Engine 113.941/948/960/966/986 in model 220 Engine 113.943 in model 208 Engine 113.944 in model 202 Engine 113.961 in model 129 Engine 113.962 in model	*BA01.40-P-1003-01C
Image: Engine 112 in model 129, 202, 208, 210, 220, 230.467 *BA20.00-P-1001-02B 220, 230.467 Engine 112.945 in model 463.209/232/233/244/245/250Coolant drain plug on crankcase 15 Lower vehicle Engine 112 Engine 112 Pour in Image: Engine 112 Image: Engine 112 Image: Engine 112			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	
15 Lower vehicle Pour in			Engine 112 in model 129, 202, 208, 210, 220, 230.467 Engine 112.945 in model 463.209/232/233/244/245/250Coolant drain	*BA20.00-P-1001-02B
Pour in	15	Lower vehicle		
UNDES OF COORD LEVEL		Notes on coolant level		AH20.00-P-1142-01CW

16	Pour in coolant and bleed cooling system	Engine 112 in model 129, 202, 208, 210,	
		211.061/065/080/082/261/265/280/282, 220,	
		230.467 Engine 112.045 in model	
		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	
		Engine 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220,	AR20.00-P-1142-04AK
		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	
⊯≊BB	Anticorrosion/antifreeze agents (Sheet 325.0)		BB00.40-P-0325-00A
i≉ BB	Coolant specifications	All models	BB00.40-P-0310-01A
		i Re-use clean coolant.	
		Engine 112.910/920 in model 202	*BF20.00-P-1001-02K
		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 112.945 in model 463.209/232/233/244/245/250	
		Engine 112.973 in model 230.467	
		Engine 112.975 in model 220	
		Engine 113.940/980 in model 210	
		Engine 113.941/960 in model 220 Engine 113.943/984 in model 208	
		Engine 113.944 in model 202	
		Engine 113.948/966 in model 220	
		Engine 113.961 in model 129	
		Engine 113.962 in model 463.206/240/241/247/248/249/254	
		Engine 113.967/969 in model 211	
		Engine 113.982 in model 463.241/243/246	
		Engine 113.986 in model 215Cooling system	*BF20.00-P-1001-02M
		Engine 137.970 in model 215, 220Cooling system	DI 20.001 1001 02W
		S Cooler vacuum filling device	*285589002100
		S Test cap	*169589009100
17	Check cooling system for leaktightness	Engine 112 in model 129, 202, 208, 210,	AR20.00-P-1010HA
		211.061/065/080/082/261/265/280/282, 220, 230.467, engine 112 in model 163Motor	
		(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	
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	AR61.20-P-1105T
		Engine 113 in model 211.070/083/270/283	
		Engine 112 in model 220 Engine 113 (except 113.991) in model 215 (except 215.374)	AR61.20-P-1105M
		Engine 113 (except 113.991) in model 220 (except 220.074/174)	
		Engine 137 in model 215, 220	
		Engine 112 in model 230.467	AR61.20-P-1105R
		except code P99 (Special model "AMG Black	
20	Lower vehicle	Series")	
20 21	Connect ground cable to battery	Only when coolant has been drained at	
Z 1	Connect ground cable to battery	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 Engine 113 in model 211.070/083	AR54.10-P-0003T
		Engine 112 in model 211.261/265/280/282 Engine 113 in model 211.270/283	AR54.10-P-0003TA
		Engine 112 in model 220 Engine 113 (except 113.991) in model 215 (except 215 274)	AR54.10-P-0003I
		(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 except code P99 (Special model "AMG Black Series")	AR54.10-P-0003R
		Engine 112.945 in model	AR54.10-P-0003G
		463.209/232/233/244/245/250 up to model year 2013	
		Engine 113.962 in model 463.206/240/247/249/254	
		up to model year 2013 Engine 113.962 in model 463.241/248	
		up to model year 2008 except code 979 (Special protection MB	
		Guard) Engine 113.982 in model 463.241	
		up to model year 2008 except code 979 (Special protection MB	
		Guard)	
		Engine 113.982 in model 463.243/246	
		up to model year 2013	
		Engine 113.962 in model 463.248 up to model year 2015	AR54.10-P-0003PM
		with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery)	
		with code ZS6 (Special protection version FB6)	
		Engine 113.962 in model 463.248 up to model year 2015	
		with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery)	
		with code ZS7 (Special protection version FB7)	

		Engine 113.962/982 in model 463.241 up to model year 2019 with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery) with code ZS4 (Special protection version FB4) Engine 113.962/982 in model 463.241 up to model year 2019 with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery) with code ZS6 (Special protection version FB6) Engine 113.962/982 in model 463.241 up to model year 2019 with code 979 (Special protection MB Guard) with code E26 (Auxiliary battery) with code 2S7 (Special protection version FB7)	AR54.10-P-0003PV
22	Perform basic programming	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	AR00.19-P-0200GH
		Engine 112, 113 in model 202, 208	AR00.19-P-0200C
		Engine 112, 113 in model 210	AR00.19-P-0200D
		Engine 112 in model 211.061/065/080/082/261/265/280/282 Engine 113 in model 211.070/083/270/283	AR00.19-P-0200T
		Engine 137 in model 215, 220	AR00.19-P-0200M
		Engine 112 in model 230.467	AR00.19-P-0200R
		Engine 112.945 in model 463.244/245/250 Engine 113.962 in model 463.247/248/249/254 Engine 113.982 in model 463.243/246	AR00.19-P-0200P
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 =8.9 ft. lbs .

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 =8.9 ft. lbs

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
		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	

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
		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 112.973 in model 230.467
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈11,5	≈10,8
		Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈5,8	≈5,4

anticorro	apacity of Liter osion agent/ ze down to	≈6,4	≈6
Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
Sheet		BB00.40-P-0325-00A	BB00.40-P-0310-01 A

Cooling system

Number	Designation			Engine 112.975 in model 220	Engine 113.941/960 in model 220
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈ 10,4	≈11,5
		Filling capacity of anticorrosion agent/ antifreeze down to -37 °C	Liter	≈5,2	≈5,75
		Filling capacity of anticorrosion agent/ antifreeze down to -45 °C	Liter	≈ 5,7	≈6,25
		Sheet		BB00.40-P-0310-01A	BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0310-01A	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 fillin	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-0310-01A	BB00.40-P-0310-01 A
		Sheet		BB00.40-P-0325-00A	BB00.40-P-0325-00 A

Cooling system

Number	Designation				Engine 113.982 in model 463.241/243/246
BF20.00-P-1001-02K	Cooling system	Total filling capacity	Liter	≈10,75	≈11,9

© Daimler AG, 6/21/21, L/10/20, 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 ...

Filling capacity of L anticorrosion agent/ antifreeze down to -37 °C	Liter	≈5,25	≈5,95
Filling capacity of L anticorrosion agent/ antifreeze down to -45 °C	Liter	≈6,0	≈6,55
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 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





Cooler vacuum filling device