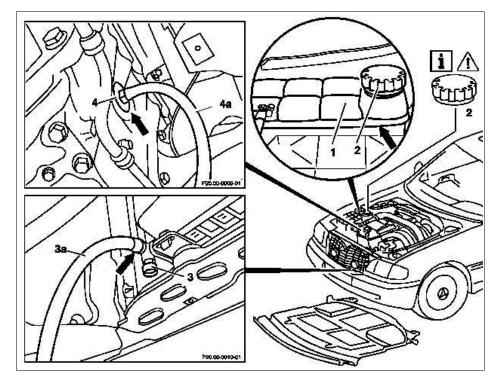
- 112 in model 129, 202, 208, 210, 211.061/065/080/082/261/265/280/282, 220, 230.467 Engine
- Engine 112 in model 163 Engine 112.945 in model 463.209/232/233/244/245/250
- Engine 113 (except 113.991) in model 215 (except 215.374)
- Engine 113 (except 113.991) in model 220 (except 220.074/174)
- Engine 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
- Engine 137 in model 215, 220

Shown on model 202

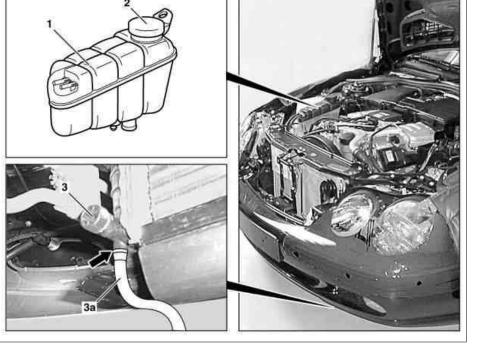
- Coolant expansion reservoir 1
- 2 Cooling system cap
- 3 Drain screw for radiator
- За Drain hose
- 4 Drain screw for cylinder crankcase
- Drain hose 4a



P20.00-0215-06

Shown on model 215 with engine 137

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



Page 1 of 10

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	Drain off		
	Notes on coolant		AH20.00-N-2080-01A
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 Engine 113 (except 113.991) in model 215 (except 215.374)	AR54.10-P-0003I
		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 463.209/232/233/244/245/250 up to model year 2013	AR54.10-P-0003G
		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 up to model year 2019 with code 979 (Special protection MB Guard)	AR54.10-P-0003PV
		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	3)
		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 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	,) ,
		i Do not connect no-load current retention unit.	
3	Open cooling system cap (2) at coolant 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 unscrew cooling system cap (2).	

© Daimler AG, 7/21/22, L/10/20, 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 (except ...

4	Raise vehicle		
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 137 in model 163 Engine 112 in model 129, 202, 208, 210 Engine 113 in model 129, 202, 208, 210 Engine 113 in model 129, 202, 208, 210 Engine 113 in model 129, 202, 208, 210 Engine 113.942 in model 163.172 Engine 113.965 in model 163.174 Engine 112 in model 215, 220	AR61.20-P-1105AB AR61.20-P-1105GH 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) 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")	AR61.20-P-1105M AR61.20-P-1105R
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)	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	
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 1 Collect 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)	
		Èngine 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	
10	Remove lower coolant hose from radiator or coolant pump and drain coolant	Engine 112 in model 163 Engine 113 in model 163	
		i Collect coolant in a suitable container.	
11	Attach lower coolant hose to radiator or coolant	Engine 112 in model 163	
	pump	Engine 113 in model 163 i Installation: Replace hose clamp.	
		Engine 112 in model 163	*BA20.20-P-1004-01A
		Engine 113 in model 163Hose clamp	
40	Drain coolant at cylinder crankcase		
12	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	
		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	
13	Open cylinder crankcase drain screw (4) and	Engine 112 in model 129, 202, 208, 210,	
	drain 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 137 in model 215, 220	
14	Tighten cylinder crankcase drain screw (4) and	L Collect coolant in a suitable container. Engine 112 in model 129, 202, 208, 210,	
17	detach drain hose (4a) from cylinder crankcase	211.061/065/080/082/261/265/280/282, 220,	
	drain screw (4)	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	
		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	

15	Lower vehicle	 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 463.206/240/241/247/248/249/254 Engine 113.967 in model 211 Engine 113.969 in model 210 Engine 113.980 in model 210 Engine 113.981 in model 200 Engine 113.984 in model 201 Engine 113.984 in model 208 Charge fitting 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 	*BA01.40-P-1003-01C *BA20.00-P-1001-02B
	Pour in 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 112.945 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 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 113.962 in model 463.206/240/241/247/248/249/254 Engine 113.982 in model 463.241/243/246 Engine 113.982 in model 463.241/243/246 Engine 113.982 in model 463.241/243/246 Engine 113.982 in model 463.241/243/246	AR20.00-P-1142-04AK
₩ BB M BB	Anticorrosion/antifreeze agents (Sheet 325.0) Coolant specifications	All models All models All models 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 112.945 in model 463.209/232/233/244/245/250 Engine 112.975 in model 230.467 Engine 113.940/980 in model 220 Engine 113.941/960 in model 220 Engine 113.943/984 in model 208 Engine 113.948/966 in model 220 Engine 113.948/966 in model 220 Engine 113.961 in model 129 Engine 113.961 in model 129 Engine 113.962 in model 129 Engine 113.962 in model 129 Engine 113.962 in model 211 Engine 113.986 in model 211 Engine 113.986 in model 215Cooling system	BB00.40-P-0325-00A BB00.40-P-0310-01A *BF20.00-P-1001-02K

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		Engine 137.970 in model 215, 220Cooling system	*BF20.00-P-1001-02M *285589002100
		Cooler vacuum filling device	*169589002100
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 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 mode	AR20.00-P-1010HA
		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 129, 202, 208, 210, 211.070/083/270/283 Engine 113 in model 129, 202, 208, 210 Engine 113 in model 129, 202, 208, 210 Engine 113 in model 129, 202, 208, 210 Engine 113.942 in model 163.172 Engine 113.945 in model 163.175 Engine 113.981 in model 163.174 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 113 (except 113.991) in model 220 (except 220.074/174) Engine 137 in model 215, 220 Engine 112 in model 215, 220 Engine 113 in model 215, 220 Engine 112 in model 215, 220 Engine 112 in model 230.467 except code P99 (Special model "AMG Black Series")	AR61.20-P-1105AB AR61.20-P-1105GH AR61.20-P-1105T AR61.20-P-1105M AR61.20-P-1105R
20	Lower vehicle		
21	Connect ground cable to battery	Only when coolant has been drained at cylinder crankcase on the right Engine 112 in model 129, 163, 202, 208, 210 Engine 113 in model 129, 163, 202, 208, 210 Engine 113 in model 129, 163, 202, 208, 210 Engine 113 in model 211.061/065/080/082 Engine 113 in model 211.061/065/080/082 Engine 113 in model 211.261/265/280/282 Engine 112 in model 211.261/265/280/282 Engine 113 in model 211.270/283 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-0003A AR54.10-P-0003T AR54.10-P-0003TA 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

detachedEngine 112, 113 in model 129AR00.19-P-0200AEngine 112, 113 in model 163AR00.19-P-0200GHEngine 112, 113 in model 202, 208AR00.19-P-0200CEngine 112, 113 in model 202, 208AR00.19-P-0200DEngine 112, 113 in model 210AR00.19-P-0200DEngine 112 in modelAR00.19-P-0200D211.061/065/080/082/261/265/280/282AR00.19-P-0200TEngine 113 in model 211.070/083/270/283AR00.19-P-0200MEngine 113 in model 215, 220AR00.19-P-0200MEngine 112 in model 230.467AR00.19-P-0200REngine 112.945 in model 463.244/245/250AR00.19-P-0200PEngine 113.962 in model 463.247/248/249/254AR00.19-P-0200P23Read out and clear the fault memory using Star DiagnosisOnly if ground line for battery has been detachedImage: Comparison of the comparison of th	1			
Engine 113.982 in model H43.2602/49/21/249/2544 up to model year 2013 Engine 113.982 in model 433.241/248 up to model year 2003 except code 979 (Special protection MB Bergine 113.982 in model 433.241 up to model year 2003 except code 979 (Special protection MB Cluster 113.982 in model 433.241 up to model year 2003 except code 979 (Special protection MB Cluster 113.982 in model 433.241 up to model year 2013 Engine 113.982 in model 433.2443 Up to model year 2015 with code 256 (Special protection MB Guard) with code 256 (Special protection MB Guard) with code 256 (Special protection MB Guard) with code 256 (Aubilary betters) AR54.10-P-0003PM with code 256 (Special protection MB Guard) with code 256 (Aubilary betters) AR54.10-P-0003PV with code 256 (Special protection MB Guard) with code 256 (Aubilary betters) AR54.10-P-0003PV with code 256 (Special protection version FB3 Engine 113.982.2382 Mass 243.244 Perform basic programming AR54.10-P-0003PV 22 Perform basic programming Only if ground line for battery has been distance with response FB3 AR00.19-P.0200A AR00.19-P.0200A Engine 112, 113 in model 202, 208 AR00.19-P.0200A AR00.19-P.0200A AR00.19-P.0200A 22 </td <td></td> <td></td> <td>463.209/232/233/244/245/250</td> <td>AR54.10-P-0003G</td>			463.209/232/233/244/245/250	AR54.10-P-0003G
463 2002/20/27/249/254 up to model year 2013 Engine 113.962 in model 463.241/248 up to model year 2013 Engine 113.962 in model 463.241 up to model year 2013 Engine 113.962 in model 463.241 up to model year 2013 Engine 113.962 in model 463.241 up to model year 2013 Engine 113.982 in model 463.241 AR54.10-P-0003PM Engine 113.982 in model 463.243 AR54.10-P-0003PM With code 273 (Special protection MB Guard) with code 273 (Special protection MB Guard) with code 256 (Special protection version FBD Engine 113.982 in model 463.243 up to model year 2015 with code 276 (Special protection wersion FBD Engine 113.982 in model 463.241 up to model year 2015 with code 276 (Special protection version FBD Engine 113.982 in model 463.241 up to model year 2019 with code 276 (Special protection wB Guard) AR54.10-P-0003PV with code 276 (Special protection NB Guard) with code 276 (Special protection NB Guard) AR54.10-P-0003PV with code 276 (Special protection version FBD Engine 113.982 in model 463.241 AR54.10-P-0003PV with code 276 (Special protection NB Guard) with code 276 (Special protection version FBD Engine 113.982 in model 483.241 AR54.10-P-0003PV with code 276 (Special protection version FBD Engine 113.9820 in m				
22Perform basic programmingup to model year 2013 Engine 113.982 in model 463.241/248 up to model year 2008 except code 970 (Special protection MB Guard) Engine 113.982 in model 463.243/246 tup to model year 2013 Engine 113.982 in model 463.243/246 tup to model year 2013 Engine 113.982 in model 463.243/246 tup to model year 2013 Engine 113.982 in model 463.2443/246 tup to model year 2013 except code 970 (Special protection MB Guard) with code 256 (Special protection YB Guard) with code 257 (Special protection YB Guard) with code 256 (Special protection YB Guard) with code 257 (Special protection YB Guard) with code 256 (Special protection YB Guard) with code 256 (Special protection YB Guard) with code 257 (Special protection YB Guard) with code 258 (Special protectio				
Engine 113.962 in model 463.241/248 up to model year 2008 except code 979 (Special protection MB Guard) Engine 113.962 in model 463.241 up to model year 2003 except code 979 (Special protection MB Guard) Engine 113.962 in model 463.241 up to model year 2003 except code 979 (Special protection MB Guard) Engine 113.962 in model 463.24246 up to model year 2013 except code 979 (Special protection version FBD) Engine 113.962 in model 463.241 up to model year 2015 with code 256 (Special protection version FBD) Engine 113.962 in model 463.241 up to model year 2015 with code 276 (Special protection version FBD) Engine 113.962 in model 463.241 up to model year 2019 with code 276 (Special protection version FBD) Engine 113.962 with model 463.241 up to model year 2019 with code 254 (Special protection VB Guard) with code 254 (Special protection VB Guard) with code 254 (Special protection VB Guard) AR54.10-P-0003PV with code 254 (Special protection VB Guard) with code 254 (Special protection VB Guard) AR54.10-P-0003PV with code 254 (Special protection VB Guard) with code 254 (Special protection VB Guard) AR54.10-P-0003PV with code 254 (Special protection VB Guard) with code 254 (Special protection VB Guard) AR50.19-P-0200A Engine 113.96298				
22 Perform basic programming up to model year 2008 AR54.10-P-0003PM 22 Perform basic programming Only if ground line of 231 (Special protection MB Guard) with code 273 (Special protection MB Guard) with code 274 (Special protection MB Guard) with code 273 (Special protection MB Guard) with code 274 (Special protection MB Guard) with code 273 (Special protection MB				
Guard) Engine 113.982 in model 463.241 up to model year 2008 except code 979 (Special protection MB Guard) AR54.10-P-0003PM Engine 113.982 in model 463.243246 up to model year 2015 AR54.10-P-0003PM With code 979 (Special protection MB Guard) with code 256 (Special protection MB Guard) with code 256 (Special protection MB Guard) with code 256 (Special protection MB Guard) with code 257 (Special protection MB Guard) with code 258 (Special protect				
Engine 113.982 in model 432.241 up to model year 2008 except code 979 (Special protection MB Guard) AR54.10-P-0003PM Engine 113.982 in model 432.243246 up to model year 2013 AR54.10-P-0003PM With code 279 (Special protection MB Guard) with code 276 (Special protection WB Guard) with code 276 (Special protection wersion FB6) Engine 113.982 in model 432.248 up to model year 2015 AR54.10-P-0003PM With code 276 (Special protection MB Guard) with code 276 (Special protection wersion FB7) Engine 113.982 in model 432.248 up to model year 2015 AR54.10-P-0003PM With code 276 (Special protection WB Guard) with code 276 (Special protection wersion FB7) Engine 113.982/982 In model 433.241 up to model year 2019 AR54.10-P-0003PV With code 276 (Special protection wersion FB7) Engine 113.982/982 In model 433.241 up to model year 2019 AR54.10-P-0003PV With code 276 (Special protection wersion FB4) Engine 113.982/982 In model 433.241 up to model year 2019 AR54.10-P-0003PV 22 Perform basic programming Only if ground line for battery has been detached AR60.19-P-0200A AR80.19-P-0200CH AR80				
22 Perform basic programming up to model year 2019 Engine 113.962 in model 463.243 up to model year 2015 with code 579 (Special protection MB Guard) with code 526 (Auxiliary battery) AR54.10.P-0003PM 22 Perform basic programming AR54.10.P-0003PV with code 579 (Special protection wersion FB7) Engine 113.962 in model 463.241 up to model year 2015 AR54.10.P-0003PV 22 Perform basic programming Only if ground line for battery has been detached AR54.10.P-0003PV 22 Perform basic programming Only if ground line for battery has been detached AR54.10.P-0003PV 23 Read out and clear the fault memory using Star Only if ground line for battary has been detached AR54.10.P-0003PV 23 Read out and clear the fault memory using Star Only if ground line for battary has been detached AR54.10.P-0003PV 23 Read out and clear the fault memory using Star Only if ground line for battary has been detached AR60.19-P-02000A AR00.19-P-0200CH 23 Read out and clear the fault memory using Star Only if ground line for battary has been detached AR00.19-P-0200P 23 Read out and clear the fault memory using Star Only if ground line for battary has been detached AR00.19-P-0200P 23 Read out and clear the fault memory using Star Only if ground line for battary has been AR00.19-P-02				
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Engine 112, 113 in model 129AR00.19-P-0200AEngine 112, 113 in model 163AR00.19-P-0200GHEngine 112, 113 in model 202, 208AR00.19-P-0200CEngine 112, 113 in model 210AR00.19-P-0200DEngine 112 in modelAR00.19-P-0200T211.061/065/080/082/261/265/280/282AR00.19-P-0200TEngine 137 in model 215, 220AR00.19-P-0200MEngine 112 in model 230.467AR00.19-P-0200REngine 112.945 in model 463.244/245/250AR00.19-P-0200PEngine 113.962 in model 463.244/245/250AR00.19-P-0200P23Read out and clear the fault memory using Star DiagnosisOnly if ground line for battery has been detachedImage: Arror	22	Perform basic programming		
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Engine 112, 113 in model 202, 208AR00.19-P-0200CEngine 112, 113 in model 210AR00.19-P-0200DEngine 112, 113 in model 210AR00.19-P-0200DEngine 112 in modelAR00.19-P-0200T211.061/065/080/082/261/265/280/282AR00.19-P-0200TEngine 113 in model 211.070/083/270/283Engine 113 in model 211.070/083/270/283Engine 137 in model 215, 220AR00.19-P-0200MEngine 112 in model 230.467AR00.19-P-0200REngine 112.945 in model 463.244/245/250AR00.19-P-0200PEngine 113.962 in model 463.247/248/249/254AR00.19-P-0200P23Read out and clear the fault memory using Star DiagnosisOnly if ground line for battery has been detachedImage: Comparison of the start was been detached			Engine 112, 113 in model 129	AR00.19-P-0200A
Engine 112, 113 in model 210AR00.19-P-0200DEngine 112 in modelAR00.19-P-0200T211.061/065/080/082/261/265/280/282Engine 113 in model 211.070/083/270/283Engine 137 in model 215, 220AR00.19-P-0200MEngine 112 in model 230.467AR00.19-P-0200REngine 112.945 in model 463.244/245/250AR00.19-P-0200REngine 113.962 in model 463.247/248/249/254AR00.19-P-0200P23Read out and clear the fault memory using Star DiagnosisOnly if ground line for battery has been detached			Engine 112, 113 in model 163	AR00.19-P-0200GH
Engine 112 in model 211.061/065/080/082/261/265/280/282 Engine 113 in model 211.070/083/270/283AR00.19-P-0200TEngine 137 in model 215, 220AR00.19-P-0200MEngine 137 in model 230.467AR00.19-P-0200REngine 112 in model 463.244/245/250 Engine 113.962 in model 463.247/248/249/254 Engine 113.982 in model 463.243/246AR00.19-P-0200R23Read out and clear the fault memory using Star DiagnosisOnly if ground line for battery has been detachedAR00.19-P-0200P			-	
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Provide a constraint of the second				
Engine 112 in model 230.467AR00.19-P-0200REngine 112.945 in model 463.244/245/250AR00.19-P-0200PEngine 113.962 in model 463.247/248/249/254AR00.19-P-0200P23Read out and clear the fault memory using Star DiagnosisOnly if ground line for battery has been detachedAR00.19-P-0200P			5	
Engine 112.945 in model 463.244/245/250 Engine 113.962 in model 463.247/248/249/254AR00.19-P-0200P23Read out and clear the fault memory using Star DiagnosisOnly if ground line for battery has been detached			-	
23 Read out and clear the fault memory using Star Diagnosis Only if ground line for battery has been detached			5	
Engine 113.982 in model 463.243/246 23 Read out and clear the fault memory using Star Diagnosis				AKUU.19-P-0200P
23 Read out and clear the fault memory using Star Only if ground line for battery has been detached			5	
Diagnosis detached	23	Read out and clear the fault memory using Star		
24 Close engine hood	24	Close engine hood		

$\fbox{\rm Nm}$ Cylinder crankcase, timing case cover, end cover

Number	Designation		Engine 113.940/941/942/943 /944/948/960/961/96 2/963/964/965/966/9 67/968/969/971/980/ 981/982/984/986/992 /995
BA01.40-P-1003-01C	Crankcase discharge fitting	Nm	12

Nm Engine cooling, general

Number	Designation		Engine 112, 113.940/941/942/943 /944/948/960/961/96 3/964/965/966/967/9 68/971/980/981/984/ 986/987/988/990/991 /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
		Filling capacity of Liter anticorrosion agent/ antifreeze down to -37 °C	≈4,75	≈5,0
		Filling capacity of Liter anticorrosion agent/ antifreeze down to -45 °C	≈5,25	≈5,5
		Sheet	BB00.40-P-0310-01A	BB00.40-P-0310-01A
		Sheet	BB00.40-P-0325-00A	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 Liter anticorrosion agent/ antifreeze down to -37 °C	≈4,75	≈5,0
		Filling capacity of Liter anticorrosion agent/ antifreeze down to -45 °C	≈5,25	≈5,5
		Sheet	BB00.40-P-0310-01A	BB00.40-P-0310-01/
		Sheet	BB00.40-P-0325-00A	BB00.40-P-0325-00/

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 I anticorrosion agent/ antifreeze down to -37 °C	Liter	≈6,0	≈5,5

© Daimler AG, 7/21/22, L/10/20, ar20.00-p-1142ha, Drain/pour in coolant Page 8 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 (except ...

Filling capacity of Liter anticorrosion agent/ antifreeze down to -45 °C	≈6,5	≈6,0
Sheet	BB00.40-P-0310-01A	BB00.40-P-0310-01A
Sheet	BB00.40-P-0325-00A	BB00.40-P-0325-00A

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 Liter anticorrosion agent/ antifreeze down to -37 °C	≈5,8	≈5,4
		Filling capacity of Liter anticorrosion agent/ antifreeze down to -45 °C	≈6,4	≈6
		Sheet	BB00.40-P-0310-01A	BB00.40-P-0310-01A
		Sheet	BB00.40-P-0325-00A	BB00.40-P-0310-01A

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 Liter anticorrosion agent/ antifreeze down to -37 °C	≈5,2	≈5,75
		Filling capacity of Liter anticorrosion agent/ antifreeze down to -45 °C	≈5,7	≈6,25
		Sheet	BB00.40-P-0310-01A	BB00.40-P-0310-01A
		Sheet	BB00.40-P-0310-01A	BB00.40-P-0325-00A

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 Liter anticorrosion agent/ antifreeze down to -37 °C	≈5,8	≈5,75
		Filling capacity of Liter anticorrosion agent/ antifreeze down to -45 °C	≈6,4	≈6,25
		Sheet	BB00.40-P-0310-01A	BB00.40-P-0310-01A
		Sheet	BB00.40-P-0325-00A	BB00.40-P-0325-004

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 Liter anticorrosion agent/ antifreeze down to -37 °C	≈6,25	≈6

© Daimler AG, 7/21/22, L/10/20, ar20.00-p-1142ha, Drain/pour in coolant 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 ...

Filling capacity of Liter anticorrosion agent/ antifreeze down to -45 °C	≈7,0	≈6,6
Sheet	BB00.40-P-0310-01A	BB00.40-P-0310-01A
Sheet	BB00.40-P-0325-00A	BB00.40-P-0325-00A

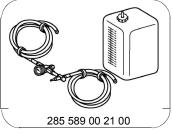
Cooling system

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 Liter anticorrosion agent/ antifreeze down to -37 °C	≈5,25	≈5,95
		Filling capacity of Liter anticorrosion agent/ antifreeze down to -45 °C	≈6,0	≈6,55
		Sheet	BB00.40-P-0310-01A	BB00.40-P-0310-01A
		Sheet	BB00.40-P-0325-00A	BB00.40-P-0325-00A

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-0310-01A
		Sheet		BB00.40-P-0325-00A





Cooler vacuum filling device