

**MODEL 163, 169, 171, 203 (except 169.090) with CODE (580) Automatic air conditioning System filled**

**MODEL 163, 169, 171, 203 (except 169.090) with CODE (581) Automatic air conditioning System filled**

**MODEL 164, 199, 203 as of 24.4.04, 209, 211, 215, 219.3, 220, 230, 240, 245, 251, 461.302 /304 /331 /332 /334 /342 /344 /345 /346, 463.222 /243 /244 /245 /246 /247 /248 /249 /250 /254 /270 /271 /303 /306 /309 /322 /323 /332 /333 /336 /340 /341 (except 245.286) System filled**

**MODEL 463.202 /236 /237 /346 up to model year 2013 System filled, /model refinement package 2012**

	Checking		
⚠ <b>Danger!</b>	<b>Risk of accident</b> caused by vehicle starting off by itself when engine is running. <b>Risk of injury</b> caused by contusions and burns during starting procedure or when working near the engine as it is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
⚠ <b>Danger!</b>	<b>Risk of explosion</b> caused by welding or soldering work on closed air conditioning system. <b>Risk of poisoning</b> caused by inhaling overheated refrigerant vapors. <b>Risk of injury</b> to skin and eyes caused by contact with liquid refrigerants.	Never perform welding work on or near a closed air conditioning system. No smoking or open flames. Wear safety glasses and protective gloves. Work only in well ventilated areas. Carry out repair work on the air conditioning system circuit only after the system has been emptied.	AS83.00-Z-0001-01A
ⓘ	Procedure for a damaged or leaky air conditioning system		AH83.30-N-0004-01A
i	Notes on handling R134a refrigerant	Air conditioning with refrigerant R134a	AH83.30-N-0003-01A
		i Check whether all steps of the diagnosis trees from the adviser on "Vehicle air conditioning" technology have been processed.	
1	Light up the complete engine compartment with a UV lamp, if necessary remove the remains of the existing contrast agent using special cleaner and wash the engine		
2	Check the refrigerant circuit using leak detector additives	i Carry out steps as per the operating instructions of the UV leak detection kit. i Use only the approved MB leak detector additives. If it is proven that a different leak detector additive has been used, we will refuse to reimburse costs inside the warranty and goodwill term. Daimler AG reserves the right to perform reexaminations. UV leak detector kit for air conditioning systems <a href="#">gotis://E_83_04.0</a>	
3	Inspect the air conditioning circuit for leaks	i If there is a pressure loss and no leak is found in the refrigeration circuit: ↓ Remove expansion valve Model 163 Model 164 Model 169, 245 Model 171 Model 199 Model 203 Model 209 Model 211 Model 215, 220 Model 219.3 Model 230 Model 240 Model 251 Model 461.302/ 304/ 332/ 334/ 342/ 344/ 345/ 346 Model 461.331 Model 463.202 /222 /236 /237 /243 /244 /245 /246 /247 /248 /249 /250 /254 /270 /271 /303 /306/ 309 /322 /323 /332 /333 /336/ 340 /341/346	AR83.30-P-5520GH <b style="color: red;">AR83.30-P-5520GZ</b> AR83.30-P-5520AK AR83.30-P-5520V AR83.30-P-5520SLR AR83.30-P-5520P AR83.30-P-5520Q AR83.30-P-5520T AR83.30-P-5520M AR83.30-P-5520TX AR83.30-P-5520R AR83.30-P-5520H AR83.30-P-5520RT AR83.30-P-5520GA  AR83.30-P-5520GLC AR83.30-P-5520GM

4	Inspect area between expansion valve and firewall for contrast agent using UV	<p><b>i</b> When no traces of contrast agent can be detected:</p> <p style="text-align: center;">↓</p> <p>Check evaporator for leaks</p> <p>Model 163, 463.202 /222 /236 /237 /243 /244 /245 /246 /247 /248 /249 /250 /254 /270 /271 /303 /306 /309 /322 /323 /332 /333 /336 /340 /341 /346</p> <p>Model 461.302 /304 /332 /334 /342 /344 /345 /346, 215, 220</p> <p>Model 461.331</p> <p>Model 164, 169, 171, 199, 209, 211, 219, 230, 240, 245, 251</p> <p>Model 203</p>	<p>AR83.30-P-5550A</p> <p>AR83.30-P-5550GLC</p> <p><b>AR83.30-P-5550Q</b></p> <p>AR83.30-P-5550P</p>
5	Charge air conditioning system	<p><b>i</b> Fill air conditioning system with refrigerant R 134a</p> <p> Model 163</p> <p> Model 164</p> <p> Model 171, 211, 215, 220, 230</p> <p> Model 203, 209</p> <p> Model 169, 245</p> <p> Model 199</p> <p> Model 219.3</p> <p> Model 240</p> <p> Model 251</p> <p> Model 461, 463</p>	<p>*BF83.30-P-1001-01B</p> <p>*BF83.00-P-1001-01F</p> <p>*BF83.00-P-1001-01A</p> <p>*BF83.30-P-1001-01B</p> <p>*BF83.00-P-1001-01D</p> <p>*BF83.00-P-1001-01C</p> <p>*BF83.00-P-1001-01E</p> <p>*BF83.00-P-1001-01B</p> <p>*BF83.00-P-1001-01G</p> <p>*BF83.30-P-1001-01A</p>

**Air conditioning system/automatic air conditioning**

Number	Designation	Model 171 with engine 113	Model 171 with engine 271, 272 up to vehicle ID 1F187119 without code 809	Model 171 with engine 271, 272 as of vehicle ID 1F187120 or with code 809
BF83.00-P-1001-01A	Capacity air conditioning system/ automatic air conditioning	Refrigerant R12 g -	-	-
		Refrigerant R134 a g 670	670	530
	Specifications for Operating Fluids Sheet	<b>BB00.40-P-0361-00A</b>	<b>BB00.40-P-0361-00A</b>	<b>BB00.40-P-0361-00A</b>

**Air conditioning system/automatic air conditioning**

Number	Designation	Model 211	Model 215
BF83.00-P-1001-01A	Capacity air conditioning system/ automatic air conditioning	Refrigerant R12 g -	-
		Refrigerant R134 a g 950	950
	Specifications for Operating Fluids Sheet	<b>BB00.40-P-0361-00A</b>	<b>BB00.40-P-0361-00A</b>

**Air conditioning system/automatic air conditioning**

Number	Designation	Model 220 without rear air conditioning	Model 220 with rear air conditioning	Model 230
BF83.00-P-1001-01A	Capacity air conditioning system/ automatic air conditioning	Refrigerant R12 g	-	-
		Refrigerant R134 a g	950	1050
		Specifications for Operating Fluids Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A
				BB00.40-P-0361-00A

 Air conditioning system/automatic air conditioning

Number	Designation	Model 240 Front air conditioning system	Model 240 Rear air conditioning system
BF83.00-P-1001-01B	Capacity air conditioning system/ automatic air conditioning	Refrigerant R134 a g	950
		Specifications for Operating Fluids Sheet	BB00.40-P-0361-00A
			BB00.40-P-0361-00A

 Air conditioning system/automatic air conditioning

Number	Designation	Model 199
BF83.00-P-1001-01C	Capacity air conditioning system/ automatic air conditioning	Refrigerant R134 a g
		Specifications for Operating Fluids Sheet
		BB00.40-P-0361-00A

 Air conditioning system/automatic air conditioning

Number	Designation	Model 169.006/007/031/032/033/306/307/331/332/333	Model 169.008/034/308/334 up to vehicle ID 1J393301	Model 169.008/034/308/334 as of vehicle ID 1J393302
BF83.00-P-1001-01D	Capacity air conditioning system/ automatic air conditioning	Refrigerant R134 a g	770	840
		Specifications for Operating Fluids Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A
				BB00.40-P-0361-00A

 **Air conditioning system/automatic air conditioning**

Number	Designation	Model 245.207/231/232/ 233	Model 245.208/234 up to vehicle ID 1J176283	Model 245.208/234 as of vehicle ID 1J176284		
BF83.00-P-1001-01D	Capacity air conditioning system/ automatic air conditioning	Refrigerant R134 a	g	770	840	770
		Specifications for Operating Fluids	Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A	BB00.40-P-0361-00A

 **Air conditioning system/automatic air conditioning**


Number	Designation	Model 219		
BF83.00-P-1001-01E	Filling capacity for air conditioning/ automatic air conditioning system	Refrigerant R134 a	g	950
		Specifications for Operating Fluids	Sheet	BB00.40-P-0361-00A

 **Air conditioning system/automatic air conditioning**

Number	Designation	Model 164.1/8 without air conditioning in rear (code 582)	Model 164.8 with air conditioning in rear (code 582)		
BF83.00-P-1001-01F	Filling capacity for air conditioning/ automatic air conditioning system	Refrigerant R134 a	g	970	1220
		Specifications for Operating Fluids	Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A

 **Air conditioning system/automatic air conditioning**

Number	Designation	Model 251 without air conditioning in rear (code 582)	Model 251 with air conditioning in rear (code 582)		
BF83.00-P-1001-01G	Air conditioning/ automatic air conditioning filling capacity	Refrigerant R134 a	g	970	1220

 Air conditioning

Number	Designation	Model 461.302/304/ 331/332/334/ 342/344/345 / 346	Model 463.222/303/ 306/336/340/ 341, model 463.202/236/237 up to model year 2013	Model 463.346 up to model year 2013 with left-hand drive vehicle	
BF83.30-P-1001-01A	Refrigerant capacity	9	1080	1000	1000
	Specifications for Operating Fluids	Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A	BB00.40-P-0361-00A

 Air conditioning

Number	Designation	Model 463.346 up to model year 2013 with right-hand drive vehicle	Model 463.206/209/ 232/233/240/ 243/244/245/ 246/247/249/ 250/254/270/ 271, Model 463.241/248 without code HH7	Model 463.236/241/248 with code HH7	
BF83.30-P-1001-01A	Refrigerant capacity	9	1050	1050	1180
	Specifications for Operating Fluids	Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A	BB00.40-P-0361-00A

 Air conditioning

Number	Designation	Model 463.309/332/333	Model 463.322/323	
BF83.30-P-1001-01A	Refrigerant capacity	9	1070	1070
	Specifications for Operating Fluids	Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A

 Air conditioning system

Number	Designation	Model 163	Model 203 Drier at side	Model 203 Drier underneath	
BF83.30-P-1001-01B	Refrigerant	Filling capacity g	750	750	850
		Specifications for Operating Fluids Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A	BB00.40-P-0361-00A

 Air conditioning system

Number	Designation	Model 209 Drier at side	Model 209 Drier underneath, except code P98	Model 209 Drier underneath, with code P98	
BF83.30-P-1001-01B	Refrigerant	Filling capacity g	750	850	900
		Specifications for Operating Fluids Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A	BB00.40-P-0361-00A