AR83.30-P-1761PP Check air conditioning system for leakage 3.5.12

MODEL 169, 171, 203 (except 169.090) with CODE (580) Automatic air conditioning

System drained

MODEL 169, 171, 203 (except 169.090) with CODE (581) Comfort automatic air conditioning System drained

MODEL 163, 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 drained

MODEL 463.202 /236 /237 /346 up to model year 2013

System drained,

/model refinement package 2012

	Checking		
	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of	Secure vehicle to prevent it from moving by itself.	AS00.00-Z-0005-01A
	injury caused by contusions and burns during starting procedure or when working near the engine as it is running	Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	
	Risk of explosion caused by welding or	Never perform welding work on or near a	AS83.00-Z-0001-01A
	soldering work on closed air conditioning system. Risk of poisoning caused by inhaling overheated refrigerant vapors. Risk of injury to skin and eyes caused by contact with liquid refrigerants.	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.	
•	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
	Evacuate air conditioning system	Air conditioner service unit gotis://E 83 05.0	
2	Fill air conditioning system with nitrogen	bar only when engine is cold. This system pressure must be maintained for at least 4 hours. Fill high and low-pressure side of air conditioning with nitrogen.	
		Temperature changes during the pressure test can cause pressure surges, e.g. due to weather changes, transition from day to night, cooling down of engine compartment. Consistent ambient conditions must be strictly ensured.	
		Air conditioner pressure and leak tester (mobile) gotis://E 83 06.0	
1	Check air conditioning circuit for leakage.	i Check for leaks using a leak detection spray in case of pressure drop.	*BR00.45-Z-1002-03A
		for USA If there is a pressure loss and no leak is found in the refrigeration circuit: ↓	*BR00.45-Z-1004-03A
		Check air conditioning for leaks with leak detector additives	AR83.30-P-1761P
	Drain nitrogen		
	Charge air conditioning system	i Fill air conditioning system with refrigerant R 134a	
		Model 163	*BF83.30-P-1001-01B
		Model 171, 211, 215, 220, 230	*BF83.00-P-1001-01A
		Type 199	*BF83.00-P-1001-01C
		Model 203, 209	*BF83.30-P-1001-01B
		Model 164	*BF83.00-P-1001-01F
		Model 169, 245	*BF83.00-P-1001-01D
		Type 219.3	*BF83.00-P-1001-01E
			*BF83.00-P-1001-01B
		Model 240	
		Model 251	*BF83.00-P-1001-01G
		Model 461, 463	*BF83.30-P-1001-01A

Repair materials

Number	Designation	Order number

BR00.45-Z-1002-03A	Leak detection spray	Christof Fischer GmbH, Augsburger Str. 289-293, 70327 Stuttgart Germany Tel. +49 711 30502-0 Fax +49 711 30502-10 www.kaeltefischer.de
BR00.45-Z-1004-03A	Leak detection spray for USA	LIQUI MOLY Gary Boyd 1820 Clark Avenue Long Beach, CA 90815 USA Tel. +1 562 5975519 Fax + 1-562-5975269 www.liqui-moly.com

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
		Specifications for Operating Fluids	BB00.40-P-0361-00A	BB00.40-P-0361-00A

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	BB00.40-P-0361-00A	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	980
		Specifications for Operating Fluids	Sheet	BB00.40-P-0361-00A

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	BB00.40-P-0361-00A	BB00.40-P-0361-00A

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	920
	-	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	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 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	770

Operating Fluids	BB00.40-P-0361-00A	BB00.40-P-0361-0
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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 9	770	840	770
		Specifications for Operating Fluids	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

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

Air conditioning

Number	Designation	Model	Model	Model
		461.302/304/ 331/332/334/ 342/344/345 / 346	463.222/303/ 306/336/340/ 341, model	463.346 up to model year 2013 with left-hand
		340	463.202/236/237 up to model year 2013	drive vehicle

BF83.30-P-1001-01A	Refrigerant capacity		g	1080	1000	1000	
		Specifications for	Sheet	BB00.40-P-0361-00A	BB00.40-P-0361-00A	BB00.40-P-0361-00A	
		Operating Fluids					

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		g	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	.30-P-1001-01A Refrigerant capacity		g	1070	1070
		Specifications for Operating Fluids	Sheet	BB00.40-P-0361-00A	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 9	970	1220
		Specifications for Sheet Operating Fluids	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