

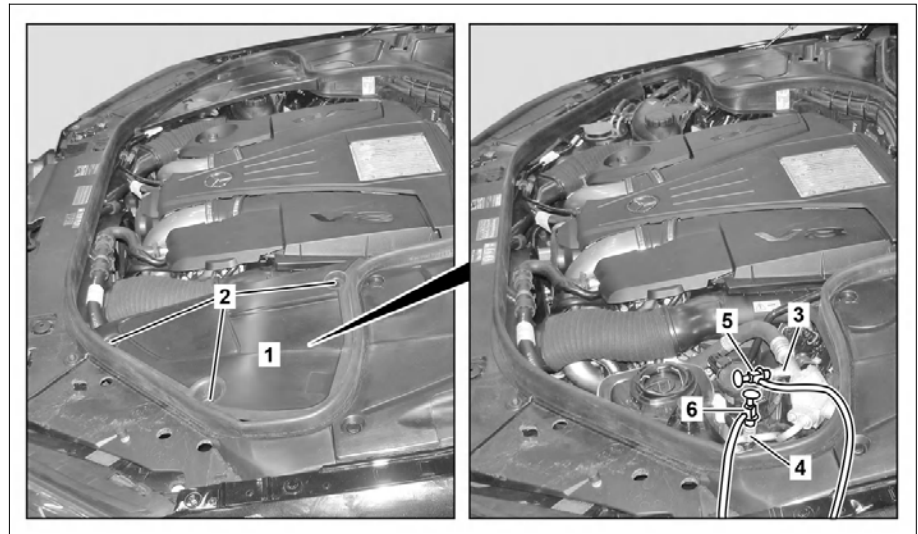
AR83.30-P-1760LF	Drain, evacuate and recharge air conditioning, check for proper operation and check for leaks	27.06.2019
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Model 217, 222

Modification notes













08.03.2017	Validity for air conditioning service unit R744 extended by model 222		
30.11.2017	Additional filling quantity after sudden emptying of system (e.g. line ruptured)	Model 217 with code 1U6 (Refrigerant R744)	BF83.55-P-1013-02A
30.11.2017	Additional filling quantity after sudden emptying of system (e.g. line ruptured)	Model 222.03/06/07/08/12/13/162/165/167/17/18/976 with code 1U6 (Refrigerant R744) mechanical refrigerant compressor	BF83.55-P-1013-02A



- 1 Cover
- 2 Rotary catches
- 3 Filling connection
- 4 Filling connection
- 5 Diagnostic socket
- 6 Diagnostic socket



P83.30-4888-05

⚠ Warning	<b>Risk of poisoning</b> caused by inhaling overheated refrigerant vapors from an air conditioning system containing R134a. <b>Risk of injury</b> to skin and eyes caused by contact with liquid R134a refrigerant and when working on pressurized parts	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 rooms. Carry out repair work on the air conditioning system circuit only after the system has been evacuated. Model 217, 222 except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant)	AS83.00-Z-0006-01A
	<b>Risk of fire</b> due to ignition of R1234yf refrigerant on hot components. <b>Risk of poisoning</b> caused by inhaling overheated refrigerant vapors. <b>Risk of injury</b> to skin and eyes caused by contact with escaped R1234yf refrigerant and when working on pressurized parts. <b>Risk of explosion</b> due to formation of ignitable refrigerant/air mixtures	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 rooms. Carry out repair work on the air conditioning system circuit only after the system has been evacuated. Model 217, 222 with code 2U8 (Alternative refrigerant)	AS83.00-Z-0007-01A
	<b>Risk of injury</b> when working on air conditioning systems due to R744 refrigerant escaping under pressure. Risk of suffocation from inhaling R744 refrigerant in high concentrations. Health hazard caused by inhalation of R744 refrigerant	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 evacuated. Model 217, 222 with code 1U6 (R744 refrigerant)	AS83.00-Z-0008-01A
	Protect air conditioning circuit and components from moisture when carrying out repair work		AH83.30-N-0005-01A
	Procedure for a damaged or leaky air conditioning system		AH83.30-N-0004-01A
	Notes on handling refrigerant R134a	Model 217, 222 except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant)	AH83.30-N-0003-01A
	Notes on handling refrigerant R1234yf	Model 217, 222 with code 2U8 (Alternative refrigerant)	AH83.30-P-0003-02A

	Notes on handling refrigerant R744	Model 217, 222 with code 1U6 (R744 refrigerant)	AH83.30-P-0003-03A
	<b>Draining</b>		
1	Open rotary catches (2) and remove cover (1)		
2	Connect diagnostic sockets (5, 6) at filler connections (3, 4)	Model 217, 222 except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant)	WS83.00-P-0031B
 WS	000 588 04 82 00 Air conditioning service unit R134a	Model 217, 222 with code 1U6 (R744 refrigerant)	WS83.00-P-0033B
 WS	000 588 09 82 00 Air conditioning service unit R744	Model 217, 222 with code 2U8 (Alternative refrigerant)	WS83.00-P-0034B
 WS	000 588 10 82 00 Air conditioning service unit R1234yf	 When operating the air conditioning service unit, proceed in accordance with the operator's manual from the manufacturer.	
3	Drain air conditioning system		
4	Note down quantity of extracted refrigerant as well as compressor oil		
	<b>Check</b>		
5.1	Check fluid reservoir with integrated desiccant cartridge for re-usability	Model 217, 222 with code 1U6 (R744 refrigerant) if necessary  ↓ Replace receiver/drier.	AR83.30-P-6520LFA
5.2	Check desiccant cartridge for re-usability	Model 217, 222 except code 1U6 (R744 refrigerant) if necessary  ↓ Replace drier cartridge.	AR83.30-P-6521LF
	<b>Evacuate and clean</b>		
6	Clean refrigerant and evacuate refrigerant circuit		
	<b>Check</b>		
7	Conduct vacuum test using air conditioning service unit	Model 217, 222 except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant)	WS83.00-P-0031B
 WS	000 588 04 82 00 Air conditioning service unit R134a	Model 217, 222 with code 1U6 (R744 refrigerant)	WS83.00-P-0033B
 WS	000 588 09 82 00 Air conditioning service unit R744	Model 217, 222 with code 2U8 (Alternative refrigerant)	WS83.00-P-0034B
 WS	000 588 10 82 00 Air conditioning service unit R1234yf		
	<b>Filling</b>		
8	Add new compressor oil to the refrigerant circuit according to the oil filling quantity noted during extraction		BB00.40-P-0362-00A
 BB	Compressor oils (specification 362.0)	 Only use the approved compressor oil in each case. If it is proven that a different compressor oil has been used, we will refuse to reimburse costs within the warranty and goodwill period. Daimler AG reserves the right to perform reexaminations.  Correct oil filling quantity in refrigerant circuit must be corrected. In the event of an incorrectly measured oil filling quantity, the refrigerant compressor may be damaged.	

		 Model 217 except code 1U6 (R744 refrigerant) Model 217 with code 1U6 (R744 refrigerant) Model 222.004/057/104/157/163 except code 1U6 (R744 refrigerant) Electric A/C compressor (hybrid) Model 222.004/057/104/157/163 with code 1U6 (R744 refrigerant) Electric A/C compressor (hybrid) Model 222.03/06/07/08/12/13/162/165/167/17/18 except code 1U6 (R744 refrigerant) Mechanical A/C compressor Model 222.03/06/07/08/12/13/162/165/167/17/18 with code 1U6 (R744 refrigerant) Mechanical A/C compressor Additional filling quantity after sudden emptying of system (e.g. line ruptured)	*BF83.55-P-1013-02A
		 Model 217 except code 1U6 (R744 refrigerant) Model 217 with code 1U6 (R744 refrigerant) Model 222.004/057/104/157/163 except code 1U6 (R744 refrigerant) Electric A/C compressor (hybrid) Model 222.004/057/104/157/163 with code 1U6 (R744 refrigerant) Electric A/C compressor (hybrid) Model 222.03/06/07/08/12/13/162/165/167/17/18 except code 1U6 (R744 refrigerant) Mechanical A/C compressor Model 222.03/06/07/08/12/13/162/165/167/17/18 with code 1U6 (R744 refrigerant) Mechanical A/C compressor Additional filling quantity with detectable leakage	*BF83.55-P-1014-02A
9	 BB Fill air conditioning system Refrigerant (specification 361.0)	Model 217, 222 except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant)	BB00.40-P-0361-00A
	 BB Refrigerant (specification 361.1)	Model 217, 222 with code 2U8 (Alternative refrigerant)	BB00.40-P-0361-01A
	 BB Refrigerant (specification 361.3)	Model 217, 222 with code 1U6 (R744 refrigerant)	BB00.40-P-0361-03A
		 Air conditioning/automatic air conditioning	*BF83.00-P-1001-01L
	 <b>Check</b>		
10	 WS Conduct pressure test using air conditioning service unit 000 588 04 82 00 Air conditioning service unit R134a	Model 217, 222 except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant)	WS83.00-P-0031B
	 WS 000 588 09 82 00 Air conditioning service unit R744	Model 217, 222 with code 1U6 (R744 refrigerant)	WS83.00-P-0033B
	 WS 000 588 10 82 00 Air conditioning service unit R1234yf	Model 217, 222 with code 2U8 (Alternative refrigerant) In the event of a pressure drop during the pressure test ↓ check air conditioning system for leakage.	WS83.00-P-0034B  AR83.30-P-1761LF
11	Remove diagnostic sockets (5, 6) from filler connections (3, 4)		
12	Install cover (1) and lock with rotary catches (2)		
	 <b>Check</b>		
	 <b>Warning</b> <b>Risk of accident</b> from vehicle starting off by itself when engine running. <b>Risk of injury</b> (bruises and burns) resulting from working on the engine while it is being started or when it is running.	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
13	Check air conditioning for proper operation		

 Air conditioning/automatic air conditioning

Number	Designation		Model 217 except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant)	Model 217 with code 1U6 (R744 refrigerant)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g	660	420
		Sheet R134a	BB00.40-P-0361-00A	-
		Sheet R1234yf	-	-
		Sheet R744	-	BB00.40-P-0361-03A

 Air conditioning/automatic air conditioning

Number	Designation		Model 217 with code 2U8 (Alternative refrigerant)	Model 222 (except 222.004/057/104/15 7/163/173) except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant) except code 582 (Rear air conditioner)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g	640	660
		Sheet R134a	-	BB00.40-P-0361-00A
		Sheet R1234yf	BB00.40-P-0361-01A	-
		Sheet R744	-	-

 Air conditioning/automatic air conditioning

Number	Designation		Model 222 (except 222.004/057/104/157 /163/173) with code 2U8 (Alternative refrigerant) except code 582 (Rear air conditioner)	Model 222 (except 222.004/057/104/15 7/163/173) with code 582 (Rear air conditioner) except code 1U6 (R744 refrigerant) except code 2U8 (Alternative refrigerant)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g	640	770
		Sheet R134a	-	BB00.40-P-0361-00A
		Sheet R1234yf	BB00.40-P-0361-01A	-
		Sheet R744	-	-

 Air conditioning/automatic air conditioning

Number	Designation		Model 222 (except 222.004/057/104/157 /163/173) with code 2U8 (Alternative refrigerant) with code 582 (Rear air conditioner)	Model 222 (except 222.004/057/104/15 7/163/173) with code 1U6 (R744 refrigerant) except code 582 (Rear air conditioner)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g	730	420
		Sheet R134a	-	-
		Sheet R1234yf	BB00.40-P-0361-01A	-
		Sheet R744	-	BB00.40-P-0361-03A

 Air conditioning/automatic air conditioning

Number	Designation		Model 222 (except 222.004/057/104/157/163/173) with code 1U6 (R744 refrigerant) with code 582 (Rear air conditioner)	Model 222.004/057/104/157 except code 2U8 (Alternative refrigerant) except code 582 (Rear air conditioner)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g	450	770
		Sheet R134a	-	BB00.40-P-0361-00A
		Sheet R1234yf	-	-
		Sheet R744	BB00.40-P-0361-03A	-

 Air conditioning/automatic air conditioning

Number	Designation		Model 222.004/057/104/157 with code 2U8 (Alternative refrigerant) except code 582 (Rear air conditioner)	Model 222.004/057/104/157 with code 582 (Rear air conditioner) except code 2U8 (Alternative refrigerant)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g	730	870
		Sheet R134a	-	BB00.40-P-0361-00A
		Sheet R1234yf	BB00.40-P-0361-01A	-
		Sheet R744	-	-

 Air conditioning/automatic air conditioning


Number	Designation		Model 222.004/057/104/157 with code 2U8 (Alternative refrigerant) with code 582 (Rear air conditioner)	Model 222.163/173 except code 2U8 (Alternative refrigerant) except code 582 (Rear air conditioner)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g	850	710
		Sheet R134a	-	BB00.40-P-0361-00A
		Sheet R1234yf	BB00.40-P-0361-01A	-
		Sheet R744	-	-

 Air conditioning/automatic air conditioning

Number	Designation		Model 222.163/173 with code 2U8 (Alternative refrigerant) except code 582 (Rear air conditioner)	Model 222.163/173 with code 582 (Rear air conditioner) except code 2U8 (Alternative refrigerant)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g	670	820
		Sheet R134a	-	BB00.40-P-0361-00A
		Sheet R1234yf	BB00.40-P-0361-01A	-
		Sheet R744	-	-

 Air conditioning/automatic air conditioning


Number	Designation	Model 222.163/173 with code 2U8 (Alternative refrigerant) with code 582 (Rear air conditioner)
BF83.00-P-1001-01L	Air conditioning/automatic air conditioning	Filling capacity for refrigerant g 800
		Sheet R134a -
		Sheet R1234yf BB00.40-P-0361-01 A
		Sheet R744 -

 Refrigerant compressor

Number	Designation	Model 217 except code 1U6 (R744 refrigerant) Model 222.03/06/07/08/12/13/162/165/167/17/18/9 except code 1U6 (R744 refrigerant) Mechanical A/C compressor	Model 217 with code 1U6 (R744 refrigerant)
BF83.55-P-1013-02A	Additional filling quantity after sudden emptying of system (e.g. line ruptured)	Compressor oil cm <sup>3</sup> 40	10
		Sheet BB00.40-P-0362-01A	BB00.40-P-0362-03 A

 Refrigerant compressor

Number	Designation	Model 222.03/06/07/08/12/13/162/165/167/17/18/9 with code 1U6 (R744 refrigerant) Mechanical A/C compressor	Model 222.004/057/104/157/163 Electric A/C compressor (hybrid)
BF83.55-P-1013-02A	Additional filling quantity after sudden emptying of system (e.g. line ruptured)	Compressor oil cm <sup>3</sup> 10	40
		Sheet BB00.40-P-0362-03A	BB00.40-P-0362-01 A

 Refrigerant compressor

Number	Designation	Model 217 except code 1U6 (R744 refrigerant) Model 222.03/06/07/08/12/13/162/165/167/17/18/9 except code 1U6 (R744 refrigerant) Mechanical A/C compressor	Model 217 with code 1U6 (R744 refrigerant)
BF83.55-P-1014-02A	Additional filling quantity with detectable leakage	Compressor oil cm <sup>3</sup> 20	-
		Sheet BB00.40-P-0362-01A	-

 Refrigerant compressor

Number	Designation	Model	Model
BF83.55-P-1014-02A	Additional filling quantity with detectable leakage	222.03/06/07/08/12/13/162/165/167/17/18/9 with code 1U6 (R744 refrigerant) Mechanical A/C compressor	222.004/057/104/157/163 Electric A/C compressor (hybrid)
	Compressor oil	cm <sup>3</sup>	-
	Sheet	-	20
			BB00.40-P-0362-01 A