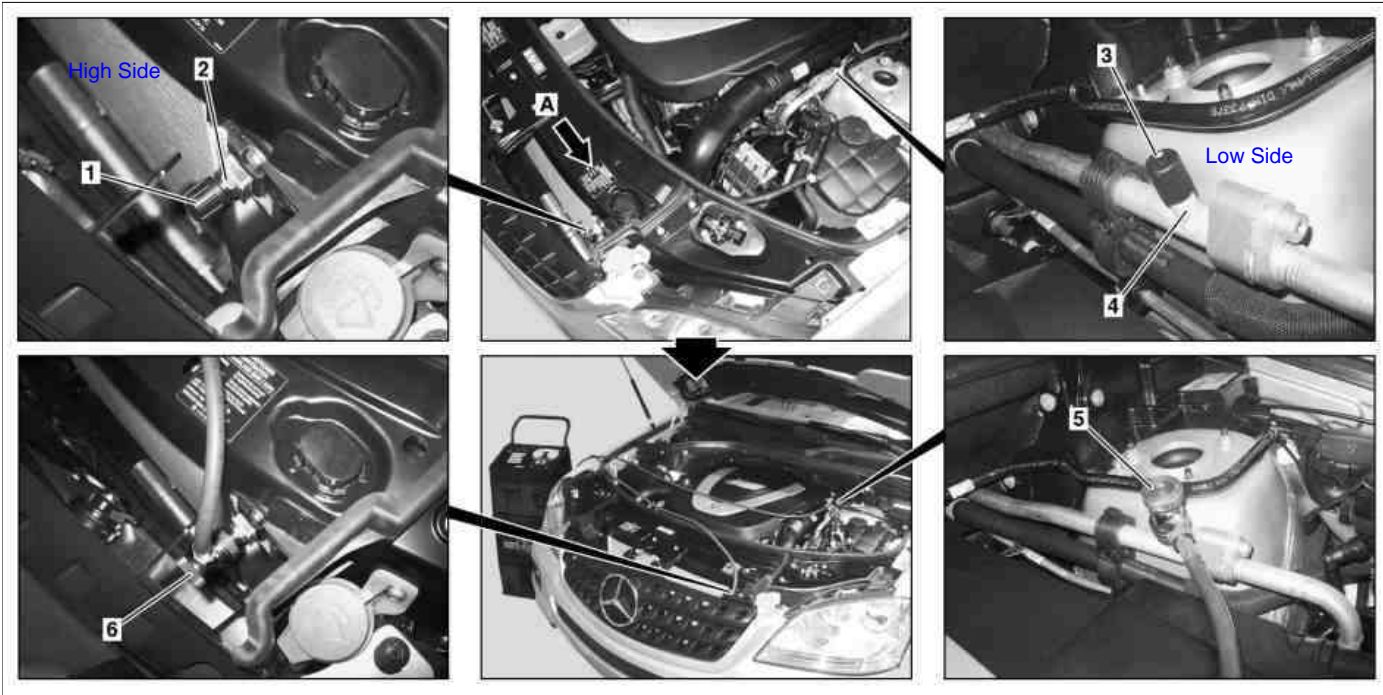


**MODEL 164**  
**with CODE (580) Automatic air conditioning**  
**with CODE (581) Comfort automatic air conditioning**  
**with CODE (582) Rear air conditioner**



P83.30-4121-09

Illustrated on model 164.186



- |  |   |
|--|---|
| 1 Plug                                     | 4 Filling connection of low-pressure line |
| 2 Filling connection of high pressure line | 5 Filling equipment connection            |
| 3 Plug                                     | 6 Filling equipment connection            |

**Modification notes**

12.7.06	Filling quantities added	Operation step 7	
5.1.07	Reference to document AR83.30-P-6520RT added	Operation step 4	

	Drain		
<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
<b>ⓘ</b>	Procedure for a damaged or leaky air conditioning system		AH83.30-N-0004-01A
<b>ⓘ</b>	Protect air conditioning circuit and components from moisture when carrying out repair work		AH83.30-P-0005-01P
<b>i</b>	Notes on handling R134a refrigerant	Air conditioning with refrigerant R134a	AH83.30-N-0003-01A
<b>i</b>	For all steps, proceed as per the operating instructions for the air conditioning vacuum, recycling and filling unit for refrigerant R134a		
1	Unscrew plug (1, 3)	<b>i</b> Depending on the engine model, various installation positions are possible for the filling connection of the high pressure line and for the filling connection of the low-pressure line.	
2	Connect the air conditioning vacuum, recycling and filling unit for refrigerant R134a to the vehicle  Air conditioning draining, evacuating and charging equipment for refrigerant R134a	<b>i</b> Connect the filling unit connection (6) to the filling connection of the high pressure line (2) and the filling unit connection (5) to the filling connection for the low-pressure line (4) Air conditioner service unit R134a <a href="#">gotis://E_83_05.0</a>	



	Air conditioning draining, evacuating and charging equipment for refrigerant R134a	Air conditioner service unit R134a <a href="#">gotis://E 83 05.0</a>	
9	Disconnect the filling unit connection (6) from the filling connection for the high pressure line (2) and the filling unit connection (5) from the filling connection for the low-pressure line (4). Air conditioning draining, evacuating and charging equipment for refrigerant R134a	Air conditioner service unit R134a <a href="#">gotis://E 83 05.0</a>	
10	Screw on plug (1, 3)	 Replace damaged plugs!	
	<b>Check</b>		
11	Check air conditioning system for leakage with air conditioning leak detector.	Air conditioning system leak detector <a href="#">gotis://E 83 04.0</a>	

### 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 = 2.138 lbs. =34.216 ozs.	1220
	Specifications for Operating Fluids	Sheet BB00.40-P-0361-00A	BB00.40-P-0361-00A

### Refrigerant compressor

Number	Designation	Refrigerant compressor in model 164
		use chart to covert cm3 to fluid ozs.
BF83.55-P-1001-011	Refrigerant compressor filling quantity	Compressor oil cm <sup>3</sup> 110 Specifications for Operating Fluids Sheet BB00.40-P-0362-00A
BF83.55-P-1002-011	Additional oil filling quantity following sudden draining of system (e.g. line ruptured)	Compressor oil cm <sup>3</sup> 40 Specifications for Operating Fluids Sheet BB00.40-P-0362-00A
BF83.55-P-1003-011	Additional oil filling quantity after replacing condenser	Compressor oil cm <sup>3</sup> 20 Specifications for Operating Fluids Sheet BB00.40-P-0362-00A
BF83.55-P-1004-011	Additional oil filling quantity after replacing evaporator	Compressor oil cm <sup>3</sup> 40 Specifications for Operating Fluids Sheet BB00.40-P-0362-00A
BF83.55-P-1005-011	Additional oil filling quantity after replacing fluid reservoir	Compressor oil cm <sup>3</sup> 10 Specifications for Operating Fluids Sheet BB00.40-P-0362-00A
BF83.55-P-1006-011	Additional oil filling quantity after replacing low-pressure line	Compressor oil cm <sup>3</sup> 10

		Specifications for Operating Fluids	Sheet	BB00.40-P-0362-00A
BF83.55-P-1007-011	Additional oil filling quantity after replacing high-pressure line	Compressor oil	cm <sup>3</sup>	10
		Specifications for Operating Fluids	Sheet	BB00.40-P-0362-00A
BF83.55-P-1008-011	Additional oil filling quantity after replacing refrigerant compressor	Compressor oil	cm <sup>3</sup>	20
		Specifications for Operating Fluids	Sheet	BB00.40-P-0362-00A
BF83.55-P-1009-011	Additional oil filling quantity in case of detectable leakage	Compressor oil	cm <sup>3</sup>	20
		Specifications for Operating Fluids	Sheet	BB00.40-P-0362-00A
BF83.55-P-1010-011	Additional oil filling quantity after replacing rear air conditioning evaporator	Compressor oil	cm <sup>3</sup>	30
		Specifications for Operating Fluids	Sheet	BB00.40-P-0362-00A
BF83.55-P-1011-011	Additional oil filling quantity after replacing rear AC lines	Compressor oil	cm <sup>3</sup>	20
		Specifications for Operating Fluids	Sheet	BB00.40-P-0362-00A
BF83.55-P-1012-011	Additional oil filling quantity after replacing evaporator (rear compartment)	Compressor oil	cm <sup>3</sup>	10
		Specifications for Operating Fluids	Sheet	BB00.40-P-0362-00A
BF83.55-P-1013-011	Additional filling capacity for refrigerant compressor with rear air conditioning	Compressor oil	cm <sup>3</sup>	30
		Specifications for Operating Fluids	Sheet	BB00.40-P-0362-00A