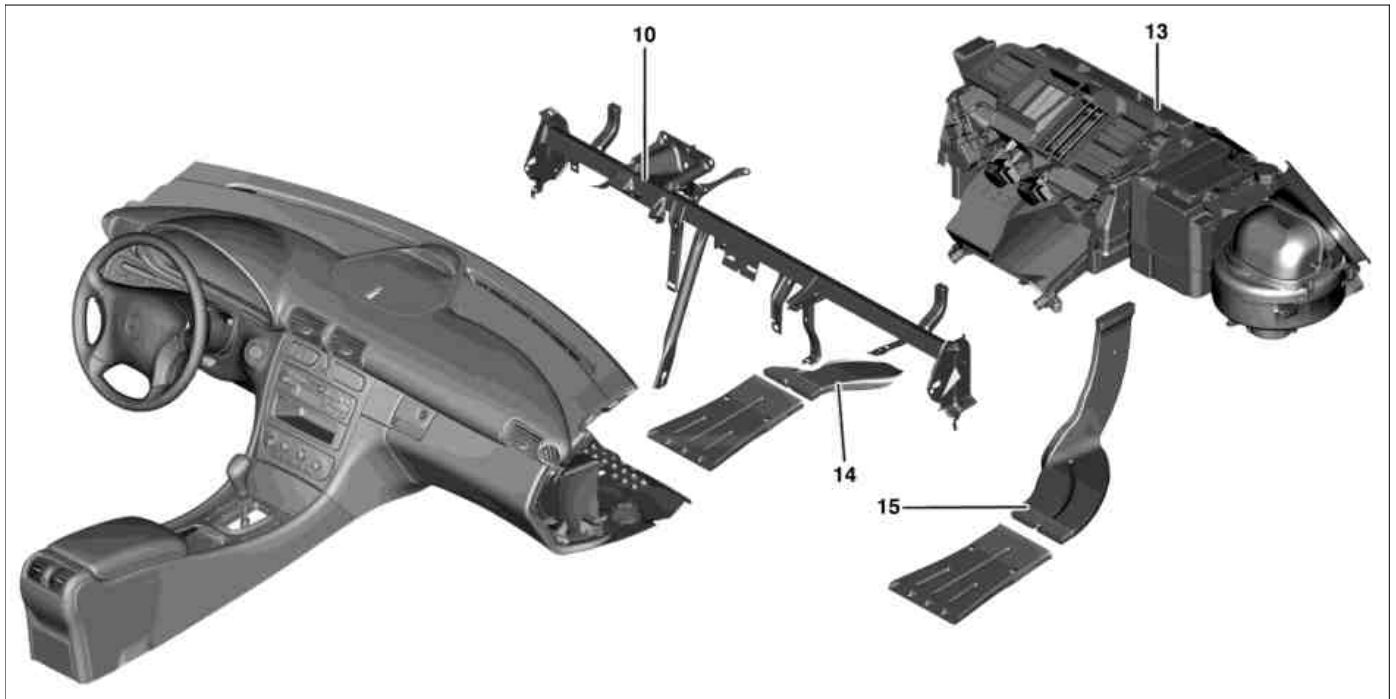


MODEL 203 with CODE (580) Automatic air conditioning

MODEL 203 with CODE (581) Comfort automatic air conditioning



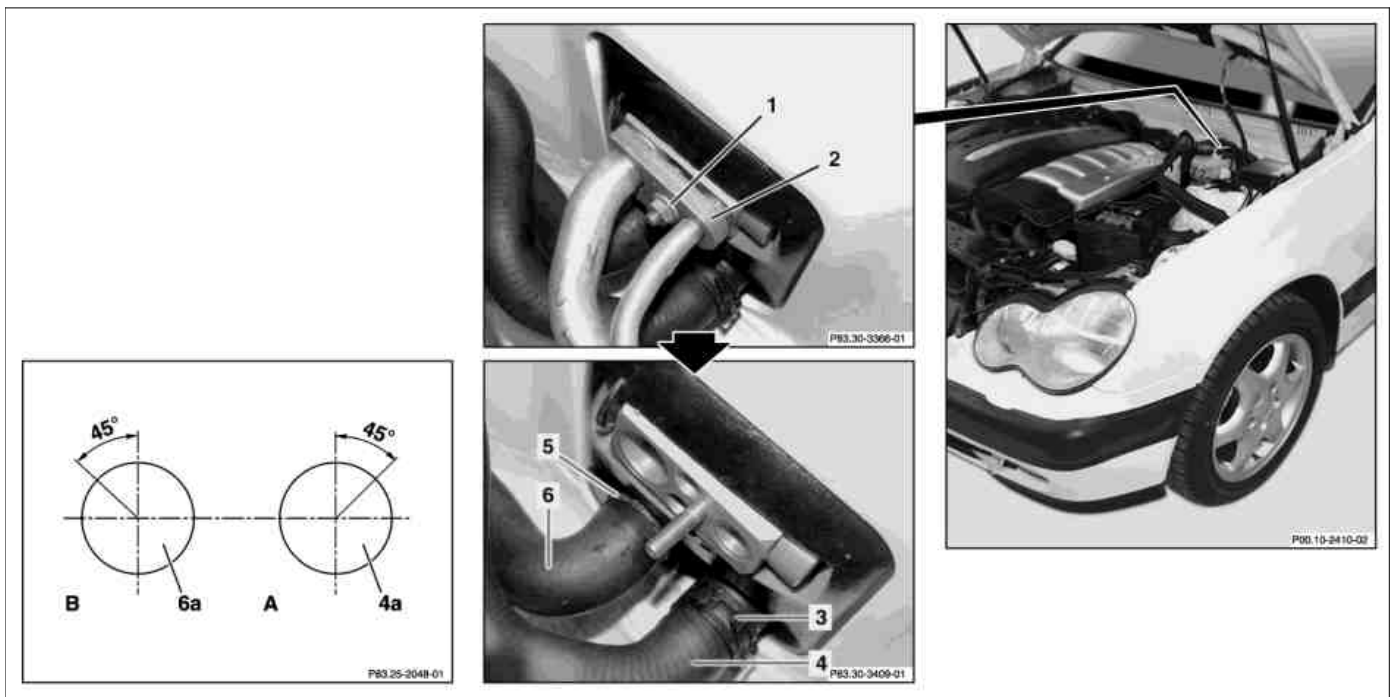
P83.40-2251-09

Shown on air conditioner housing of comfort automatic air conditioning, code 580a

10 Instrument panel carrier
13 AC housing

14 Air duct to left rear compartment

15 Air duct to right rear compartment

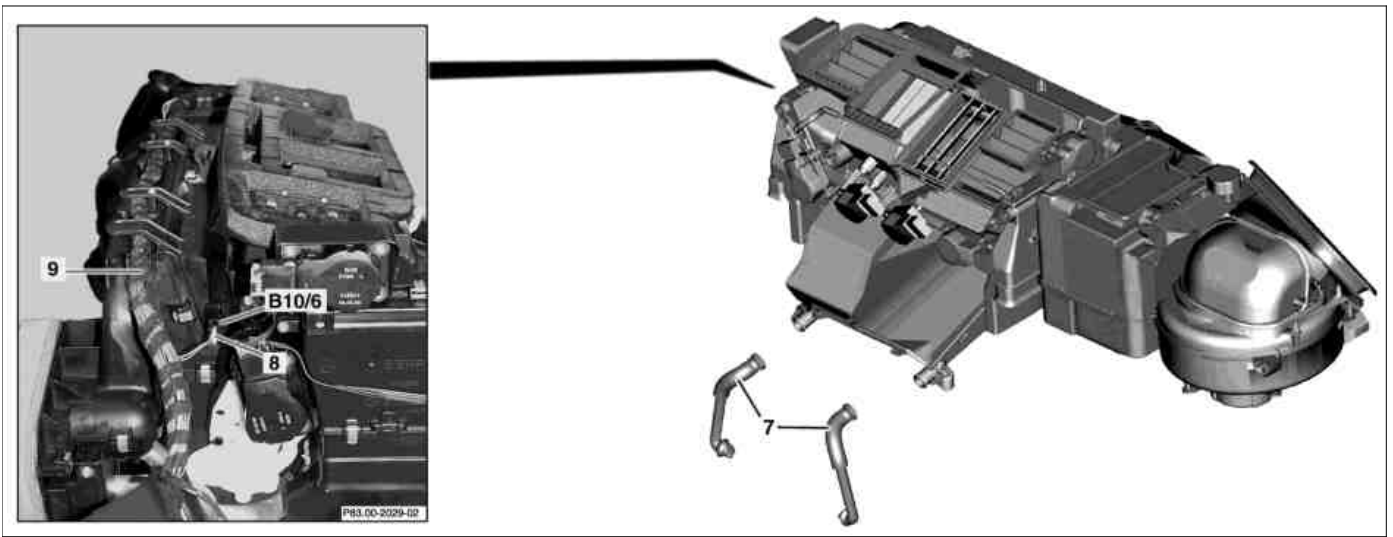


P83.40-2252-09

1 Nut
2 Retaining plate
3 Hose clamp
4 Hot water feed hose

4a Fitting for heating water feed hose
5 Hose clamp

6 Hot water return hose
6a Fitting for heating water return hose

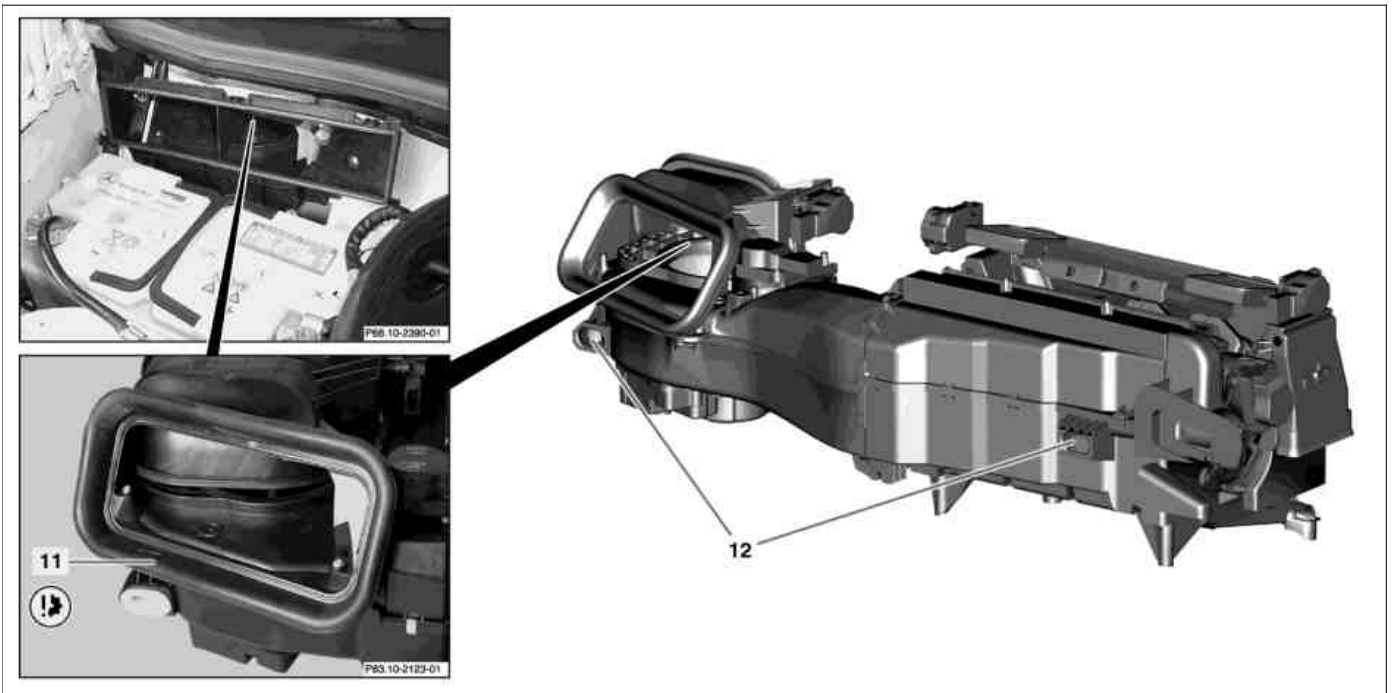


P83.40-2253-08

7 Condensate water drain hoses
8 Clutch

9 Cockpit wiring harness






B10/6 Evaporator temperature sensor



P83.40-2254-09

11 Gasket

12 Guide

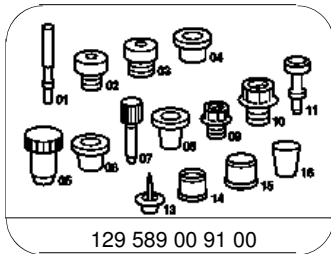
	Remove/install		
 Danger!	Risk of injury to skin and eyes caused by scalding from contact with hot coolant spray. Risk of poisoning caused by swallowing coolant.	Do not open cooling system unless coolant temperature is below 90 °C. Open cap slowly and release the pressure. Do not pour coolant into beverage containers. Wear protective gloves, protective clothing and safety glasses.	AS20.00-Z-0001-01A
 Danger!	Risk of explosion caused by welding or 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 refrigerant.	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 discharged.	AS83.00-Z-0001-01A
	Notes on coolant	All engines	AH20.00-N-2080-01A
	Procedure for a damaged or leaky air conditioning system	All models	AH83.30-N-0004-01A

	Protect air conditioning circuit and components from moisture when carrying out repair work	Model 199 Model 203 with code (580a) Automatic air conditioning Model 203 with code (581b) Convenience automatic air-conditioning Model 209	AH83.30-P-0005-01P
	Notes on handling R134a refrigerant	All models with R134a refrigerant	AH83.30-N-0003-01A
1	Open engine hood		
2	Reduce pressure in cooling system		
3.1	Detach lower engine compartment paneling	Engine 111, 112, 612.990, 271 Only remove front paneling.	AR61.20-P-1105P
3.2	Remove bottom section of soundproofing	Engine 611, 612 except 612.990, 646 Only remove front lower section.	AR94.30-P-5300P
4	Drain coolant at radiator	Engine 611, 612, 646 Engine 111, 271 Engine 112	AR20.00-P-1142HB AR20.00-P-1142PR AR20.00-P-1142PV
5	Completely move back driver and passenger seats		
Danger!	Risk of explosion caused by oxyhydrogen gas. Risk of poisoning and caustic burns caused by swallowing battery acid. Risk of injury with caustic burns to eyes and skin from battery electrolyte or from handling damaged lead-acid batteries Remove dashboard carrier	No fire, sparks, open flames or smoking. Wear acid-resistant gloves, clothing and goggles. Only pour battery acid into suitable and appropriately marked containers.	AS54.10-Z-0001-01A
6	Notes on battery	All models	AR68.10-P-1111P AH54.10-P-0001-01A
	Remove accelerator pedal		AR30.12-P-1321P
8	Fold back floor covering at front left	Air duct to left rear compartment (14) must be accessible	
9	Remove air duct to left rear compartment (14)		
10	Fold back floor covering at right front	Air duct to right rear compartment (15) must be accessible	
11	Remove air duct to right rear compartment (15)		
12	Remove desiccant cartridge	Installation: Following each opening of the refrigerant circuit the desiccant cartridge has to be replaced, in order to ensure correct functionality of the air conditioning. Up to 23.04.04 As of 24.04.04	AR83.30-P-6521P AR83.30-P-6521PA
13	Unscrew nut (1)	Nut for expansion valve	*BA83.30-P-1001-01D
14	Remove pressure lines together with retaining plate (2)	Seal off openings to prevent foreign bodies from entering. Installation: Replace sealing rings and coat with compressor oil. Set of stop plugs	*129589009100
15	Detach hose clamp (3)	Installation: Mount hose clamp (3) at an angle of 45° using hose clamp pliers (picture A). Hose clamp pliers (length 210 mm; adjustment range 80 mm)	
16	Detach heating water feed hose (4) from fitting for heating water feed hose (4a)	Close off opening to prevent foreign bodies from entering. Set of stop plugs	*129589009100
17	Detach hose clamp (5)	Installation: Mount hose clamp (5) at an angle of 45° using hose clamp pliers (picture B). Hose clamp pliers (length 210 mm; adjustment range 80 mm)	
18	Detach heater water return hose (6) from fitting for heater water return hose (6a)	Close off opening to prevent foreign bodies from entering. Set of stop plugs	*129589009100
19	Remove condensate water drain hoses (7)		
20	Disconnect connector (8) from evaporator temperature sensor (B10/6)		
21	Slightly remove air conditioner housing (13) from fire wall	Installation: Moisten seal (11) at air conditioner housing air inlet (13) with soapy water. Do not oil seal (11). Ensure that seal (11) is seated correctly at air conditioner housing air inlet. Grease guides (12). Long-life grease	*BR00.45-Z-1001-06A

22	Remove cockpit wiring harness (9) from air conditioner housing (13)		
23	Remove air conditioner housing (13)	i Remove air conditioner housing with the help of an assistant. Avoid damaging interior and air conditioner housing.	
24	Install in the reverse order		
25	Read out fault memory and erase Connect STAR DIAGNOSIS and read out fault memory	STAR DIAGNOSIS diagnosis system	AD00.00-P-2000-04A
26	Synchronize actuator motors	i STAR Diagnosis tool.	

Nm Air conditioning

Number	Designation	Model
		203, 209
BA83.30-P-1001-01D	Nut on expansion valve	Nm 8



Set of stop plugs

Repair materials

Number	Designation	Order number
BR00.45-Z-1001-06A	Long-life grease	A 000 989 63 51 11