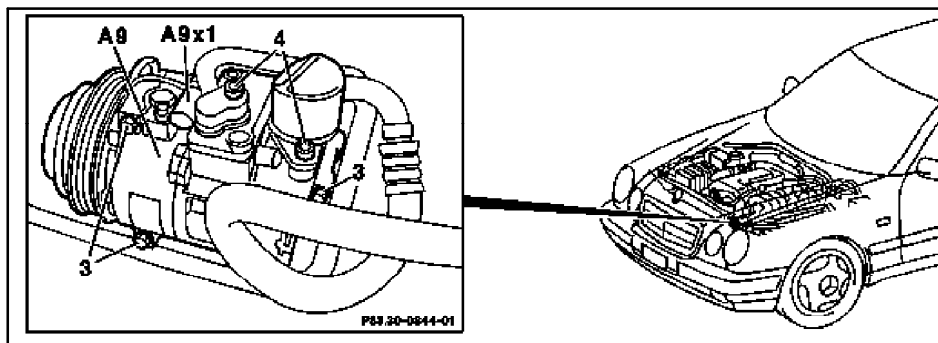


ENGINE 104, 111, 112, 113, 602, 604, 605, 606, 611.961 in MODEL 210

with CODE (580) Air conditioning or Tempmatic for USA

with CODE (581a) Air conditioning (Automatic)

A9 Refrigerant compressor  
 A9x1 Refrigerant compressor connector  
 3 Bolt  
 4 Bolt











P83.30-0345-04

## Modification notes

12.8.97	Safety note added		
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	Removing, installing		
<b>Danger!</b>	<b>Risk of explosion</b> from welding or brazing work on closed air conditioning system. <b>Risk of poisoning</b> from inhaling overheated refrigerant vapors. <b>Risk of injury</b> from skin and eye contact with liquid refrigerant.	Do not carry out any welding work on the closed air conditioning system or in the surrounding area. No smoking or naked flames. Wear eye protection and protective gloves. Work only in well ventilated areas. Do not carry out repair work on the circuit of the air conditioning system unless the system is drained.	AS83.00-Z-0001-01A
	Conduct if air conditioning system is damaged or leaking		AH83.30-N-0004-01A
	Protect air conditioning circuit and components from moisture when carrying out repair work	All models fitted with air conditioning	AH83.30-N-0005-01A
	Notes for handling R134a refrigerant	All models with R134a refrigerant	AH83.30-N-0003-01A
1	Drain air conditioning system (recycling), evacuate, fill, inspect for leaks	Add extracted quantity of compressor to the refrigerant circuit again when filling the air conditioning system (use fresh compressor oil)	
2	Remove lower engine compartment lining	Model 210.03/05/07/23/27/28/66 Model 210.00/01/02/21/61	AR61.20-P-1105AB AR94.30-P-5300AB
3	Slacken poly V-belt and take off	Engine 104 Engine 111 Engine 112, 113 Motor 602 Engine 604, 605, 606 Engine 611	ra13001041200x AR13.22-P-1202A AR13.22-P-1202B AR13.22-P-1202HW AR13.22-P-3902-01HA AR13.22-P-1202HB
4	Unplug connector A9x1		
5	Remove bolts (4), disconnect suction and pressure lines and place to one side	Plug openings (parts kit) Engine 104, 111, 112, 113, 602, 604, 605, 606 Engine 611.961	*BA83.55-P-1002-01A *BA83.55-P-1003-01C
6	Unscrew bolts (3), withdraw refrigerant compressor (A9) downwards	for lower front bolt Engine 104, 111, 112, 113, 602, 604, 605, 606 Engine 611.961	*WH58.30-Z-1006-11A *BA83.55-P-1001-01A *BA83.55-P-1002-01C

		<p> Before installing a new refrigerant compressor allow pressure in the refrigerant compressor to escape slowly by opening the cover on the pressure-line side</p> <p> In the event that the refrigerant compressor is not renewed, replace the O-rings (moisten with compressor oil)</p>	
7	Correct oil level in refrigerant compressor		AR83.55-P-5250E
8	Install in the reverse order	<p> If the refrigerant compressor was replaced because of internal damage↓</p> <p> replace suction and pressure lines together with sealing rings</p> <p> Observe quantity of oil to be added when replacing lines↓</p> <p>Replace expansion valve</p>	<p>*BF83.55-P-1006-01 A</p> <p>*BF83.55-P-1007-01 A</p> <p>AR83.30-P-5520F</p>
9	Replace receiver/drier		AR83.30-P-6520E
10	Switch on air conditioning and allow it to idle for approx. 4 minutes	<p> Set temperature dials to blue or automatic air conditioning to "Lo"</p> <p>Blower to max.</p>	
11	Check air conditioning for proper function	<p> Air outlet temperature at center nozzle should not drop below +5 °C , if necessary↓</p> <p>perform diagnosis according to Diagnosis Manual</p>	
12	Find leaky point in air conditioning circuit		*WH58.30-Z-1001-27A

#### AC compressor

Number	Designation	Engine	Engine 112.910/911/ 920/921/940/941, 113.940/943/944/980/ 984 in model 202, 208, 210
BA83.55-P-1001-01A	Bolt of AC compressor to bracket	Nm	23
BA83.55-P-1002-01A	Bolt of refrigerant lines to refrigerant compressor	Nm	23

#### AC compressor

Number	Designation	Engine
BA83.55-P-1002-01C	Bolt of AC compressor to bracket	Nm 20
BA83.55-P-1003-01C	Bolt of refrigerant lines to refrigerant compressor	Nm 20

#### A/C compressor

Number	Designation	A/C compressor
		7SB16 on models 140, 170, 202, 208, 210

BF83.55-P-1006-01A	Additional oil-filling quantities when replacing suction hose	Compressor oil	cm <sup>3</sup>	20
		Specifications for service products	Sheet	BB00.40-P-0362-00A
BF83.55-P-1007-01A	Additional oil-filling quantities when replacing pressure line	Compressor oil	cm <sup>3</sup>	20
		Specifications for service products	Sheet	BB00.40-P-0362-00A

**Commercially available tools** (see Workshop Equipment Manual)

Number	Designation	Make (e. g.)	Order no.
WH58.30-Z-1001-27A	Air conditioning leak detector	Behr GmbH u. Co. KG 70469 Stuttgart	988 047 Model 5650
WH58.30-Z-1006-11A	Torx double box-type wrench E10 x E12	Hazet D-42857 Remscheid	609-E10xE12