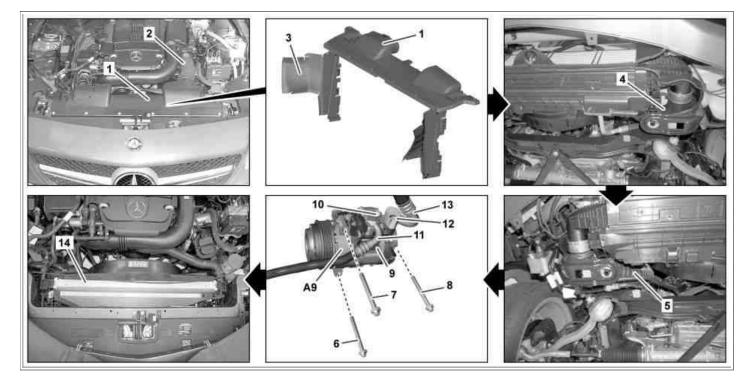
Engine	271, 274, 276 in model 172.4
	with code 580 (Air-conditioning system)
Engine	271, 274, 276 in model 172.4
	with code 581 (Automatic air conditioning)
Engine	276 in model 207
	with code 580 (Air-conditioning system)
Engine	276 in model 207
-	with code 581 (Automatic air conditioning)

Modification notes

05.10.2016	Safety note added	AS83.00-Z-0006-01A	
30.09.2016	Safety note added	AS83.00-Z-0007-01A	
30.09.2016	"Technical note" added	AH54.00-P-0001-01A	
30.09.2016	General note added	AH83.30-P-0003-02A	



P83.55-2198-09

Shown on MODEL 172 with ENGINE 271.861

- 4 Charge air hose
- 5 Charge air hose
- 6 Screw/bolt
- 7 Screw/bolt

- 8 Screw/bolt
- 9 Electrical connector
- 10 Screw/bolt
- 11 High pressure pipe

- 12 Screw/bolt
- 13 Low pressure pipe
- 14 Radiator
- A9 Refrigerant compressor

	Risk of poisoning caused by inhaling overheated refrigerant vapors from an air conditioning system containing R134a. Risk of injury to skin and eyes caused by contact with liquid R134a refrigerant and when working on pressurized parts Risk of fire due to ignition of R1234yf refrigerant on hot components. Risk of poisoning caused by inhaling overheated refrigerant vapors. Risk of injury to skin and eyes caused by contact with escaped R1234yf refrigerant and when working on pressurized parts. Risk of explosion 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.Engine 271, 274, 276 in model 172.4 with code 580 (Air-conditioning system) except code 2U8 (Alternative refrigerant) Engine 271, 274, 276 in model 172.4 with code 581 (Automatic air conditioning) except code 2U8 (Alternative refrigerant) Engine 276 in model 207 with code 580 (Air-conditioning system) Engine 276 in model 207 with code 581 (Automatic air conditioning) 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.Engine 271, 274, 276 in model 172.4 with code 2U8 (Alternative refrigerant) with code 208 (Air-conditioning system) Engine 271, 274, 276 in model 172.4 with code 2U8 (Alternative refrigerant) with code 2U8 (Alternative refrigerant) with code 2U8 (Alternative refrigerant) with code 2U8 (Alternative refrigerant) with code 2U8 (Alternative refrigerant)	AS83.00-Z-0007-01A
()	Information on preventing damage to electronic	with code 581 (Automatic air conditioning)	AH54.00-P-0001-01A
	components due to electrostatic discharge		
	Procedure for a damaged or leaky air conditioning system		AH83.30-N-0004-01A
	Protect air conditioning circuit and components from moisture when carrying out repair work	Engine 276 in model 207 with code 580 (Air-conditioning system) Engine 276 in model 207 with code 581 (Automatic air conditioning)	AH83.30-P-0005-01A
i	Notes on handling refrigerant R1234yf	Engine 271, 274, 276 in model 172.4 with code 2U8 (Alternative refrigerant) with code 580 (Air-conditioning system) Engine 271, 274, 276 in model 172.4 with code 2U8 (Alternative refrigerant) with code 581 (Automatic air conditioning)	AH83.30-P-0003-02A
ì	Notes on handling refrigerant R134a	Engine 271, 274, 276 in model 172.4 with code 580 (Air-conditioning system) except code 2U8 (Alternative refrigerant) Engine 271, 274, 276 in model 172.4 with code 581 (Automatic air conditioning) except code 2U8 (Alternative refrigerant) Engine 276 in model 207 with code 580 (Air-conditioning system) Engine 276 in model 207 with code 581 (Automatic air conditioning)	AH83.30-N-0003-01A
XX	Remove/install		
1	Perform initial startup of refrigerant compressor (A9)	When installing new refrigerant compressor (A9).	
₩AD			AD00.00-P-2000-04A
2	Drain air conditioning system	Engine 271, 274, 276 in model 172.4 with code 580 (Air-conditioning system) Engine 271, 274, 276 in model 172.4 with code 581 (Automatic air conditioning) Engine 276 in model 207 with code 580 (Air-conditioning system)	AR83.30-P-1760V AR83.30-P-1760CW
		Engine 276 in model 207 with code 581 (Automatic air conditioning)	
3	Slacken the poly-V-belt and remove from belt pulley of the refrigerant compressor (A9)	Engine 276 in model 172.4 with code 580 (Air-conditioning system) Engine 276 in model 172.4 with code 581 (Automatic air conditioning) Engine 276.9 in model 207 with code 580 (Air-conditioning system) Engine 276.9 in model 207 with code 581 (Automatic air conditioning)	AR13.22-P-1202W AR13.20-P-0001FH

© Daimler AG, 7/11/24, L/07/19, ar83.55-p-5300w, Remove/install refrigerant compressor Page 2 of 5 Engine 271, 274, 276 in model 172.4 with code 580 (Air-conditioning system) Engine 271, 274, 276 in model 172.4 with code 581 (Automatic air conditioning) Engine 276 in model 207 with code 580 ...

		Engine 276.8 in model 207 with code 580 (Air-conditioning system) Engine 276.8 in model 207 with code 581 (Automatic air conditioning)	AR13.20-P-0001ELS
		Engine 271 in model 172 with code 580 (Air-conditioning system) Engine 271 in model 172 with code 581 (Automatic air conditioning)	AR13.20-P-0001CW
		Engine 274 in model 172 with code 580 (Air-conditioning system) Engine 274 in model 172 with code 581 (Automatic air conditioning)	AR13.20-P-0001MR
4	Remove bottom engine compartment paneling at front	Engine 271, 274, 276 in model 172.4 with code 580 (Air-conditioning system) Engine 271, 274, 276 in model 172.4 with code 581 (Automatic air conditioning)	AR61.20-P-1105W
		Engine 276 in model 207 with code 580 (Air-conditioning system) Engine 276 in model 207 with code 581 (Automatic air conditioning)	AR61.20-P-1105EW
5	Remove charge air hoses (4, 5)	Engine 271 in model 172.4 with code 580 (Air-conditioning system) Engine 271 in model 172.4 with code 581 (Automatic air conditioning)	
6	Release and detach electrical connector (9) from refrigerant compressor (A9)	Mar code cor (Flatomado an conditioning)	
7	Remove screws/bolts (6, 7, 8) from A/C compressor (A9)	i A/C compressor (A9) must be secured against falling down.	
		Engine 271 in model 172.4 with code 580 (Air-conditioning system) Engine 271 in model 172.4 with code 581 (Automatic air conditioning)Bolt, refrigerant compressor to timing case/ crankcase/engine support	*BA83.55-P-1003-01G
		Engine 274 in model 172 with code 580 (Air-conditioning system) Engine 274 in model 172 with code 581 (Automatic air conditioning) Engine 276 in model 172.4, 207 with code 580 (Air-conditioning system) Engine 276 in model 172.4, 207 with code 581 (Automatic air conditioning)Screw/bolt, refrigerant compressor to timing case/crankcase/engine support	*BA83.55-P-1001-01M
8	Unscrew bolt (12)	Mm Engine 271 in model 172.4 with code 580 (Air-conditioning system) Engine 271 in model 172.4 with code 581 (Automatic air conditioning)Bolt, refrigerant lines to refrigerant compressor	*BA83.55-P-1002-01G
		Im Engine 274 in model 172 with code 580 (Air-conditioning system) Engine 274 in model 172 with code 581 (Automatic air conditioning) Engine 276 in model 172.4, 207 with code 580 (Air-conditioning system) Engine 276 in model 172.4, 207 with code 581 (Automatic air conditioning)Bolt, refrigerant line to refrigerant compressor	*BA83.55-P-1003-01M
9	Remove low-pressure line (13) from A/C compressor (A9)		
BB	Compressor oils (specification 362.1)	i Installation: Sealing ring of low-pressure line (13) must be replaced and moistened with compressor oil.	BB00.40-P-0362-01A
10	Seal openings of low-pressure line (13) and A/C compressor (A9) using suitable stop plugs		*129589009100

11	1 Remove screw/bolt (10) Im Engine 271 in model 172.4 with code 580 (Air-conditioning s Engine 271 in model 172.4 with code 581 (Automatic air con refrigerant lines to refrigerant con		*BA83.55-P-1002-01G
		Engine 274 in model 172 with code 580 (Air-conditioning system) Engine 274 in model 172 with code 581 (Automatic air conditioning) Engine 276 in model 172.4, 207 with code 580 (Air-conditioning system) Engine 276 in model 172.4, 207 with code 581 (Automatic air conditioning)Bolt, refrigerant line to refrigerant compressor	*BA83.55-P-1003-01M
12	Remove high-pressure line (11) from A/C compressor (A9)		
⊯ BB	Compressor oils (specification 362.1)	i Installation: Sealing ring of high-pressure line (11) must be replaced and moistened with compressor oil.	BB00.40-P-0362-01A
13	Seal openings of high-pressure line (11) and A/ C compressor (A9) using suitable stop plugs	() The openings of the high-pressure line (11) and refrigerant compressor (A9) must be sealed. Otherwise, penetrating dirt and moisture will damage the air conditioning system.	
14	Lift radiator (14), pull towards the front and fasten in place	Image: Second plug Engine 271, 276 in model 172.4 with code 580 (Air-conditioning system) Engine 271, 276 in model 172.4 with code 581 (Automatic air conditioning) Engine 276 in model 207 with code 580 (Air-conditioning system) Engine 276 in model 207 with code 580 (Air-conditioning system) Engine 276 in model 207 with code 581 (Automatic air conditioning)	*129589009100
15	Remove refrigerant compressor (A9) upwards out of the engine compartment		
16	Install in the reverse order		
4	Check		
17	Evacuate the air conditioning system, refill it, and then check the system to make sure that it functions correctly and does not leak	Engine 271, 274, 276 in model 172.4 with code 580 (Air-conditioning system) Engine 271, 274, 276 in model 172.4 with code 581 (Automatic air conditioning)	AR83.30-P-1760V
		Engine 276 in model 207 with code 580 (Air-conditioning system) Engine 276 in model 207 with code 581 (Automatic air conditioning)	AR83.30-P-1760CW

Nm Refrigerant compressor

Number	Designation		Engine 274	Engine 276
BA83.55-P-1001-01M	Screw/bolt, refrigerant compressor to timing case/crankcase/engine support	Nm	20	20

Nm Refrigerant compressor

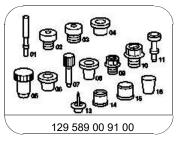
Number	Designation		Engine 271 in model 171, 172, 203, 209, 211, 212
BA83.55-P-1002-01G	Bolt, refrigerant lines to refrigerant compressor	Nm	20

Nm Refrigerant compressor

Number	Designation		Engine 271 in model 171, 172, 203, 209, 211, 212
BA83.55-P-1003-01G	Bolt, refrigerant compressor to timing case/crankcase/engine support	Nm	20

Nm Refrigerant compressor

Number	Designation			Engine 274	Engine 276
BA83.55-P-1003-01M	Bolt, refrigerant line to refrigerant compressor	M8	Nm	20	20



Record plug