

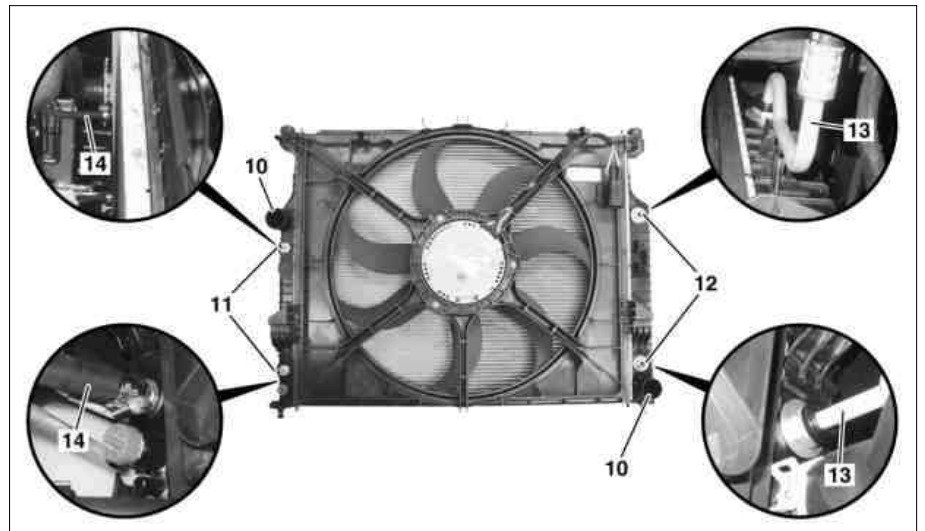
P20.20-2279-09

Shown on engine 272

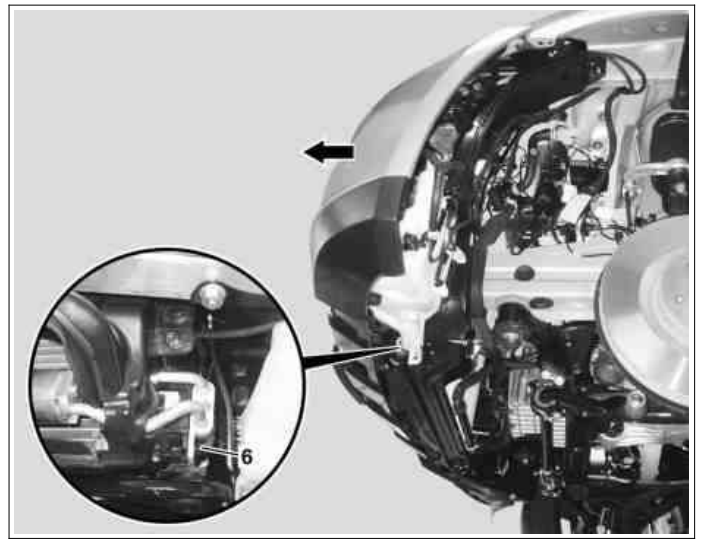
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|---|--------------|---|-------|---|----------------|
| 1 | Radiator | 4 | Bolts | 7 | Upper mounts |
| 2 | Coolant hose | 5 | Bolts | 8 | Lower supports |
| 3 | Air ducting | 6 | Bolt | 9 | Rubber bushing |

Shown on engine 272

- | | |
|----|---------------------------------|
| 10 | Connection fitting |
| 11 | Connection |
| 12 | Connection |
| 13 | Automatic transmission oil line |
| 14 | Power steering oil line |





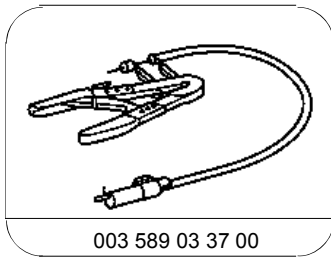
P20.20-2280-05



P20.20-2281-11

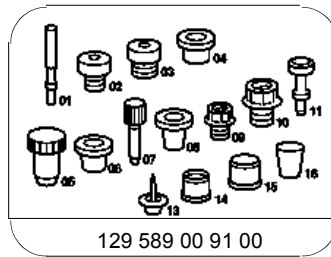
☒ ☒	Remove/install		
⚠ Danger!	Risk of injury to skin and eyes caused by scalding from contact with hot coolant spray. Risk of poisoning caused by swallowing coolant.	Do not open cooling system unless coolant temperature is below 90°C. Open cap slowly and release the pressure. Do not pour coolant into beverage containers. Wear protective gloves, protective clothing and safety glasses.	AS20.00-Z-0001-01A
⚠ Danger!	Risk of injury to skin or eyes caused by hydraulic fluid spraying out under high pressure. Risk of poisoning caused by swallowing hydraulic fluid	Depressurize the hydraulic system completely before starting any work on the system. Wear protective clothing and safety glasses.	AS00.00-Z-0013-01A
ⓘ	Notes on coolant		AH20.00-N-2080-01A
1	Remove front engine cover		
2	Remove left and right engine intake air ducts		
3	Remove upper radiator crossmember	Engine 273	AR62.30-P-2300GZ
4	Remove electric fan		AR20.40-P-5000GZA
5	Remove engine compartment paneling	ⓘ Installation: Install engine compartment paneling only after engine test run.	AR61.20-P-1105GZ
6	Drain coolant at radiator (1)		AR20.00-P-1142GZC
7	Detach coolant hose (2) at radiator (1)	ⓘ Installation: Check condition of coolant hose (2) and replace if necessary. Ensure coolant hose (2) is fitted correctly on radiator (1) ☒	*003589033700
8	Detach coolant hoses from connection fitting (10) on radiator (1) and place to one side	ⓘ Installation: Check condition of coolant hoses; replace if necessary. Ensure that coolant hoses are correctly fitted to radiator (1). ☒	*003589033700
9	Detach automatic transmission oil lines (13) from connections (12) on radiator (1)	ⓘ Seal the connections (12) using stop plugs to prevent dirt from entering. ⓘ Installation: Replace sealing rings. Make sure that automatic transmission oil lines (13) are correctly fitted to radiator (1). ☒	*129589009100
10	Detach power steering oil lines (14) from connections (11) on radiator (1)	ⓘ Seal connections (11) using stop plugs to prevent dirt from entering. ☒	*129589009100
11	Remove bolts (4) to air ducting (3) from radiator (1)		
12	Remove front section of fender liner in left front fender	Model 164 except 164.177	AR88.10-P-1310GZ
13	Partially remove left bumper		AR88.20-P-2000GZ
14	Remove bolt (6) of refrigerant line mounting on radiator (1)	ⓘ To ease access to bolt (6), pull partially removed bumper somewhat to front, see arrow.	
15	Lift radiator (1) with condenser of air conditioning system upwards out of rubber mounts (9), push towards engine and put down	ⓘ This provides access to the bolts (5) of the air ducting (3).	

16	Remove bolts (5) from air ducting (3)		
17	Remove air ducting (3)		
18	Unclip condenser of air conditioning from upper supports (7) on radiator (1) and pull condenser upwards and out of lower supports (8)	i Place air conditioning condenser down in front of radiator (1).	
19	Take out radiator (1) in an upward direction	i Installation: Pay attention to correct seating of rubber mount (9). Ensure air conditioning condenser's lower supports (8) are correctly seated in radiator (1).	
20	Install in the reverse order		
21	Check transmission oil level and correct if necessary		AR27.00-P-0270W
22	Check power steering oil level		AP46.00-P-4611GZ
 22	Check power steering oil level		AP46.00-P-4611GZ
23	Inspecting cooling system for leaks		AR20.00-P-1010GZC
24	Connect STAR DIAGNOSIS and read fault memory	i Faults which may have been caused by disconnecting wires or by a simulation must be erased in the fault memory after completing the work.	
 Danger!	Risk of accident caused by vehicle starting off by itself when engine is running. Risk of injury caused by contusions and burns during starting procedure or when working near the engine as it is running	Secure vehicle to prevent it from moving by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A
25	Conduct engine test run and check engine for leaks whilst it is running		



003 589 03 37 00

Hose clamp pliers



129 589 00 91 00

Set of stop plugs