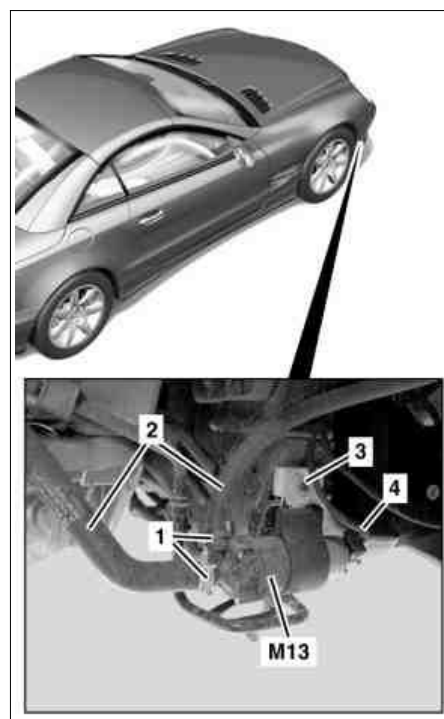


MODEL 230.4

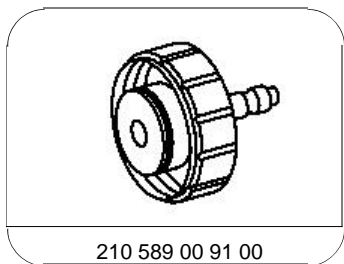
- 1 Hose clamps
 2 Coolant hoses
 3 Nut
 4 Electrical connector

M13 Heating water circulation pump

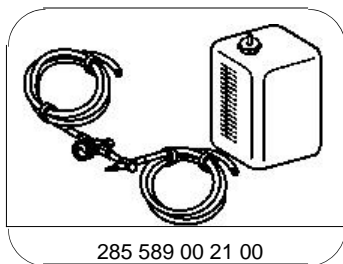


P83.25-2084-03

☒ ☒	Remove/install		
⚠ Danger!	Risk of injury to skin and eyes caused by scalding from contact with hot coolant spray. Risk of poisoning from 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
ⓘ	Notes on coolant		AH20.00-N-2080-01A
1	Open engine hood and raise to vertical position		AR88.40-P-1000R
2	Turn plug of expansion reservoir to notch "1", release pressure in cooling system and turn plug back again		
3	Detach right front engine compartment paneling		AR61.20-P-1105R
4	Clamp off coolant hoses (2)	🛠	*WH58.30-Z-1013-02A
5	Release hose clamps (1) and detach coolant hoses (2) from coolant circulation pump (M13)	ⓘ Collect flowing out coolant in a suitable vessel. ⓘ Installation: Check coolant hoses (2) and their hose clamps (1) for damage, replace if necessary. 🛠	*WH58.30-Z-1020-02A
6	Disconnect electrical connector (4) from coolant circulation pump (M13)		
7	Unscrew nut (3)		
8	Remove hot water circulation pump (M13)		
9	Install in the reverse order		
10	Pour in coolant and bleed cooling system	ⓘ Reuse the clean coolant. 🔄 🔄	AR20.00-P-1142-04A *210589009100 *285589002100 BB00.40-P-0310-01A BB00.40-P-0325-00A AH20.00-P-1142-01V
☞ BB	Coolant specifications	Sheet 310.1	
☞ BB	Anticorrosion/antifreeze agents (Sheet 325.0)	Sheet 325.0	
ⓘ	Notes on coolant level		AR20.00-P-1010HA
11	Inspect cooling system for leaks	Engine 112, 275	



Test cap



Vacuum-type cooling system filler

Commercially available tools

Number	Designation
WH58.30-Z-1013-02A	Pinch cock
WH58.30-Z-1020-02A	Hose clamp pliers (length 235 mm, clamping range 40 mm)