

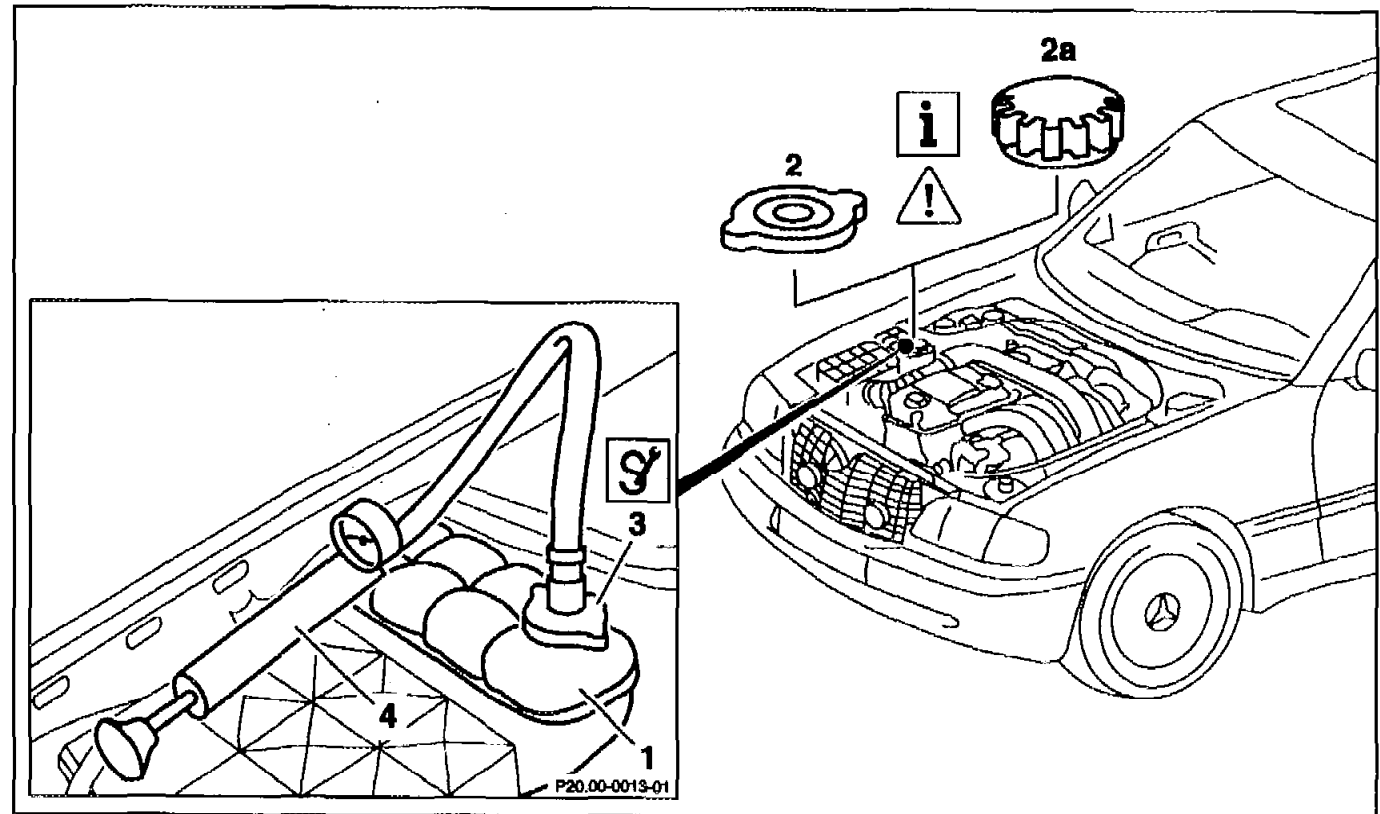




P5	AR20.00-P-1010HA	Checking cooling system for leaks	17.6.97
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ENGINE 111, 112, 113, 120, 601, 602 /, 603, 604, 605, 606 /, 611

- 1 Expansion reservoir
- 2 Cooling system cap with detent
- 2a 2-stage cooling system cap
- 3  Test cap
- 4  Tester











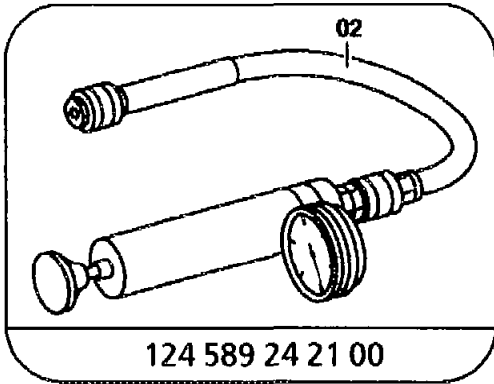
P20.00-0397-05

 	Removing, installing		
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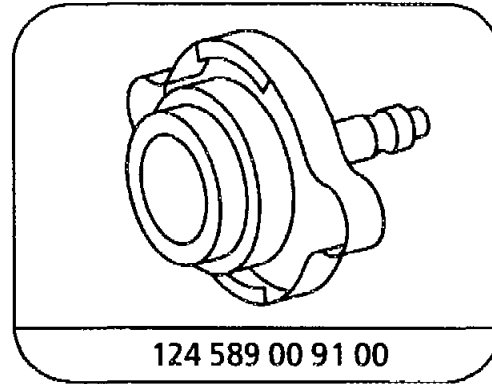
 Danger! 1	<p>Risk of injury to skin and eyes from scalding from hot coolant which splashes out. Risk of poisoning from swallowing coolant.</p> <p>Open cap of expansion reservoir or radiator (2, 2a)</p>	<p>Do not open the cooling system unless the coolant temperature is below 90 °C. Open cap slowly and allow the pressure to release. Do not pour coolant into containers for drinks.</p> <p>Wear protective gloves, protective clothes, and eye protection.</p> <ul style="list-style-type: none"> - Cooling system cap with detent (2): Carefully turn cap to the first detent, release pressure, and then unscrew cap - 2-stage cooling system cap (2a) or cap in model 163: Turn cap half a turn anti-clockwise, release pressure, and then unscrew cap 	<p>AS20.00-Z-0001-01A</p> <p>J17</p>
2.1	Set heater switches to maximum heating capacity	<p>All except model 163</p> <p> Model 163 has no clogged valves, the coolant flows through the heating system heat exchanger permanently</p>	
	Testing		
3	Check coolant level, adjust if necessary	<p>Engine 111</p> <p>Model 463, 220, 210, 208, 202, 129 with engine 112, 113</p> <p>Model 163 with engine 112, 113</p>	<p>AH20.00-P-1142-01A J16</p> <p>AH20.00-P-1142-01V P16</p> <p>AH20.00-P-1142-01GH C17</p>



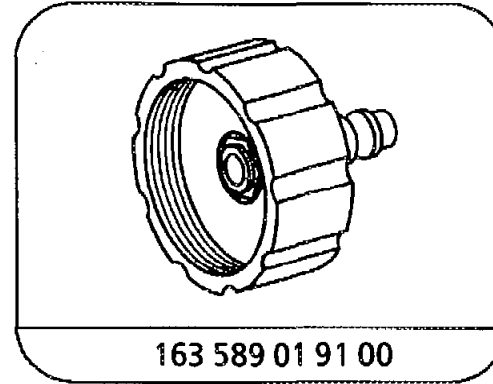
4	Install test cap (3) at the expansion reservoir or radiator	 Test cap for cooling system cap with detent (2)  Test cap for 2-position cooling system cap  Test cap for model 163 with engine 112, 113	124 589 00 91 00 210 589 00 91 00 163 589 01 91 00
5	Connect tester		124 589 24 21 00
6	Test cooling system for leaks	 Test pressure approx. 1.4 bar.  If cylinder head gaskets are new, first of all bring engine to operating temperature and then test cooling system for leaks	
7	Inspect cooling and heating hoses and also their connection points for proper condition and loss of coolant, replace coolant hoses if necessary		
8	Inspect condition and installation of hose clips, retighten or replace if necessary	 	WH58.30-Z-1001-06A WH58.30-Z-1002-06A



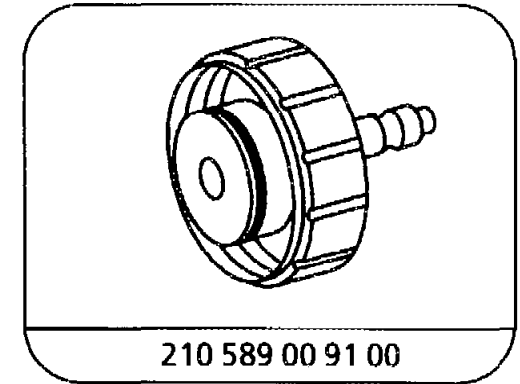
Tester



Test cap



Test cap



Test cap

Commercially available tools

Number	Designation	Make (e.g.)	Order number
WH58.30-Z-1001-06A	6 mm wrench hexagon on flexible shaft for hose clips with worm drive	Hazet Güldenwerther Bahnhofstraße 25-28 D-42857 Remscheid	426-6
WH58.30-Z-1002-06A	7 mm wrench hexagon on flexible shaft for hose clips with worm drive	Hazet Güldenwerther Bahnhofstraße 25-28 D-42857 Remscheid	426-7