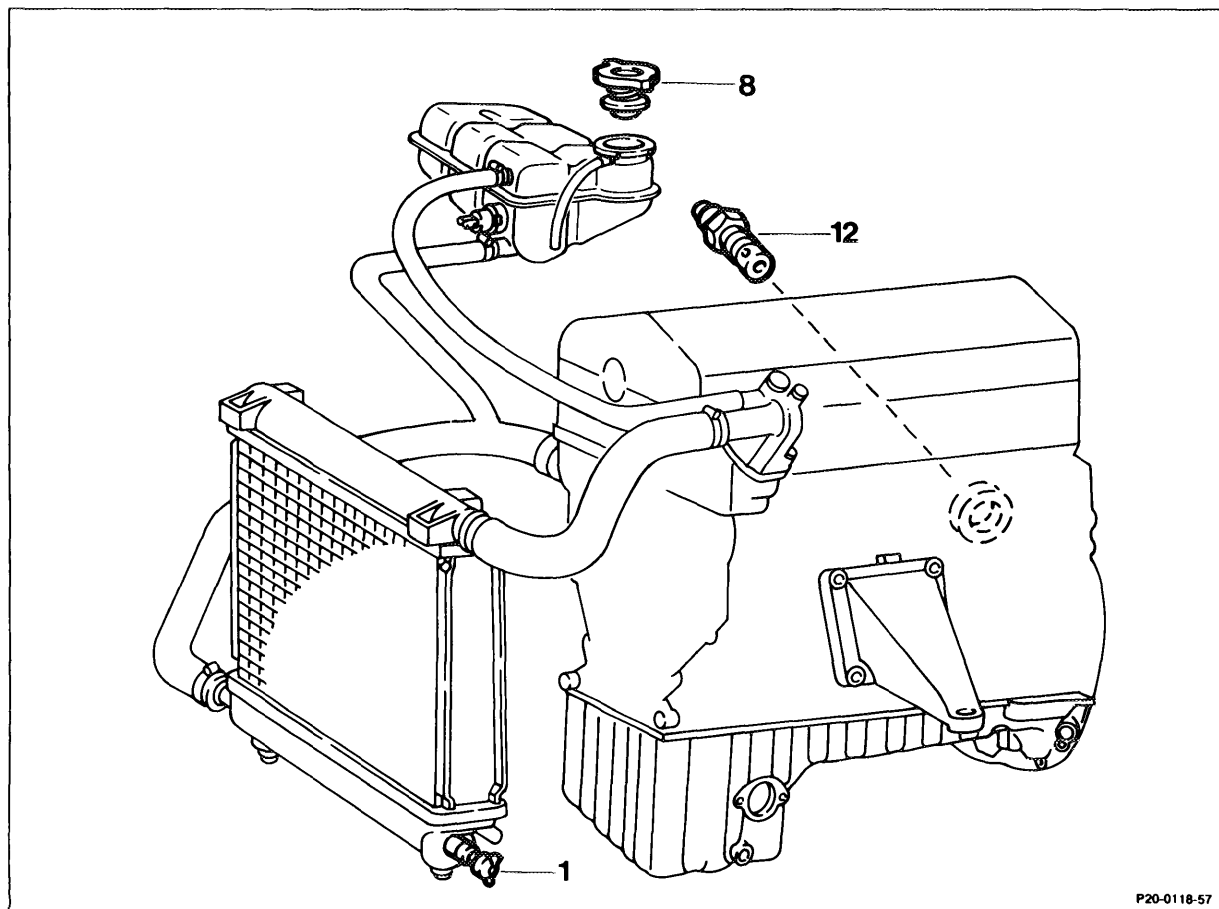


20-016 Removing oil from cooling and heating system

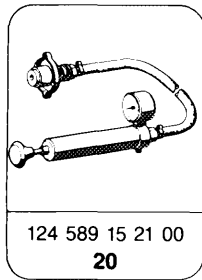
Preceding work:
 Coolant drained (20-010).
 Coolant thermostat removed (20-110).



P20-0118-57

Heater control	set to "warm" (step 1).
Cooling system	fill with a 5 % flushing solution (step 2).
Engine	warm up to normal operating temperature and run for approx. 5 minutes (step 3).
Flushing solution	drain and fill cooling system twice with fresh water, run engine each time for approx. 5 minutes, completely drain flushing solution (steps 5 and 6).
Cooling system	check for leaks (20-017).

Special tool



Note

Oil must be removed from the cooling system if engine oil, automatic transmission fluid on models fitted with automatic transmission, or hydraulic oil entered the cooling system.

Removing oil

- 1 Set heater control to full capacity.

Caution!

On vehicles with light alloy radiators, strong alkaline cleaners such as P3 Standard (supplier: Henkel) must not be used.

- 2 Fill the cooling system with a 5 % solution of water and neutral cleaner or with a mild alkaline cleaner such as 3-Croni (supplier: Henkel) or Grisiron 7220 (supplier: Farbwerke Hoechst).
- 3 Warm up engine to approx. 80 °C by running at moderate rpm and maintain for approx. 5 minutes at this temperature.
- 4 Switch off engine and allow cooling system to cool down to approx. 50 °C.
- 5 Drain solution completely.
- 6 Immediately following this step, fill cooling system twice with fresh water, warm up engine (approx. 5 minutes) and drain.
- 7 Check cooling system for leaks (20-017).