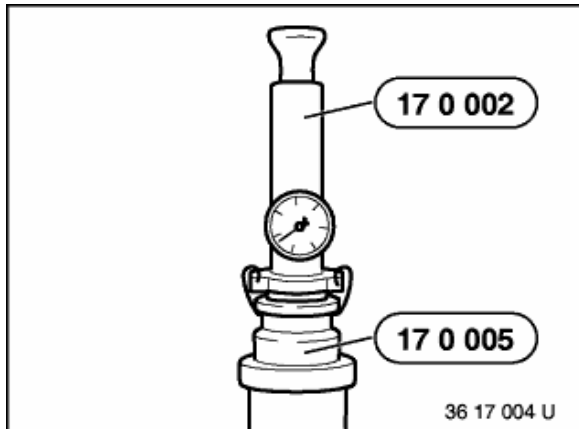
**Special tools required:**

- 17 0 002
- 17 0 005
- 17 0 007
- 17 0 008

**Warning!**

Danger of scalding!

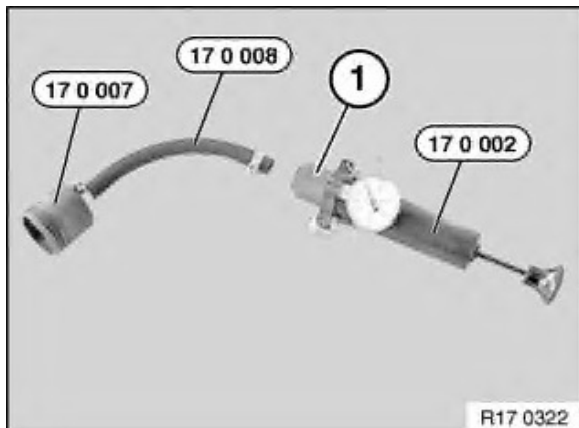
Only perform this work after engine has cooled down.

**Checking pressure drop in cooling system:**

Remove cap on expansion tank. Attach special tool 17 0 002 / 17 0 005 .

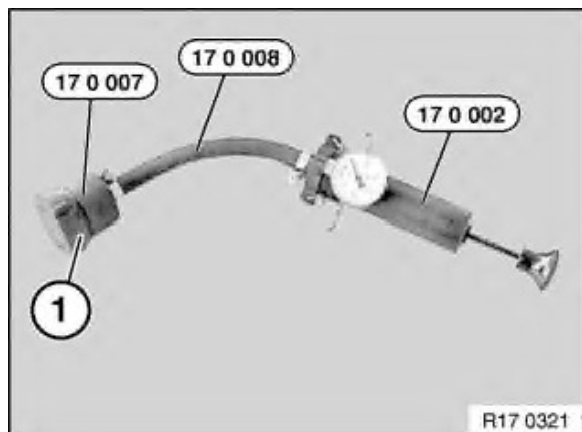
Build up gauge pressure of 1.5 bar, wait approx. 2 minutes.

Cooling system is impervious to leaks if pressure drop is max. 0.1 bar.

**Checking pressure relief valve in cap:**

Detach rubber (1) from hand pump.

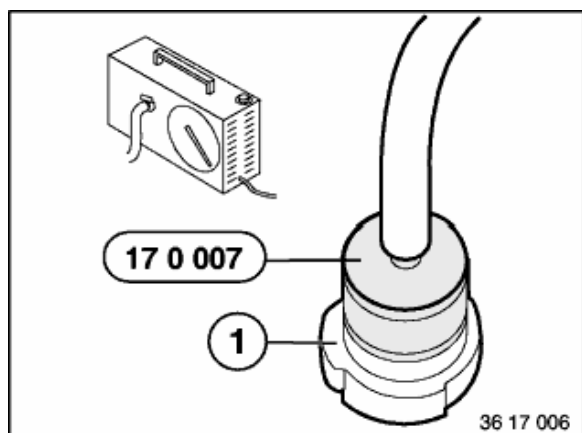
Attach special tool 17 0 007 / 17 0 008 .



Screw cap (1) onto special tool.

Build up pressure with special tool (hand pump) 17 0 002 ; observe pressure gauge to ascertain when opening pressure is achieved.

Compare opening pressure of pressure relief valve.



### Checking vacuum valve in cap

Screw cap (1) onto special tool 17 0 007 and connect to vacuum hose of vacuum pump.

Sourcing reference: BMW Parts Service.

Feed vacuum pump with battery positive voltage.

Slowly apply partial vacuum to cap.

Compare opening pressure of vacuum valve.