17 00 009

Checking water tightness of cooling system (S63 B44 T 0)

Special tools required:

- 00 2 030
- 17 0 100

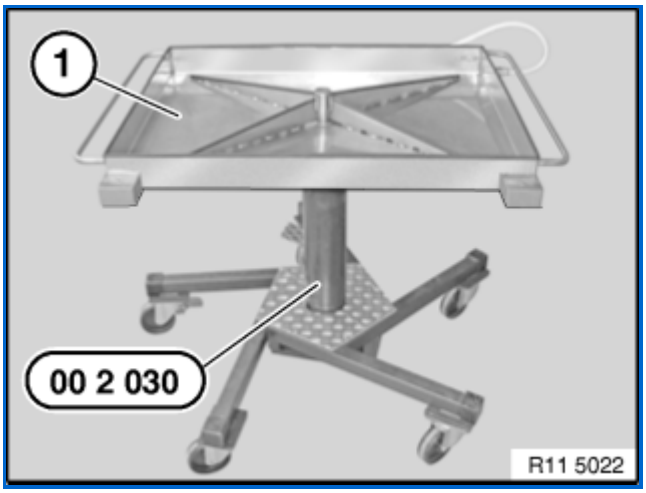
Warning!

Risk of scalding!

Only perform this repair work after engine has cooled down.

Protective measures/rules of conduct:

- Wear safety goggles
- Wear protective gloves
- Observe national/country-specific regulations



Important!

Risk of skidding due to coolant on the floor.

Danger of injury!

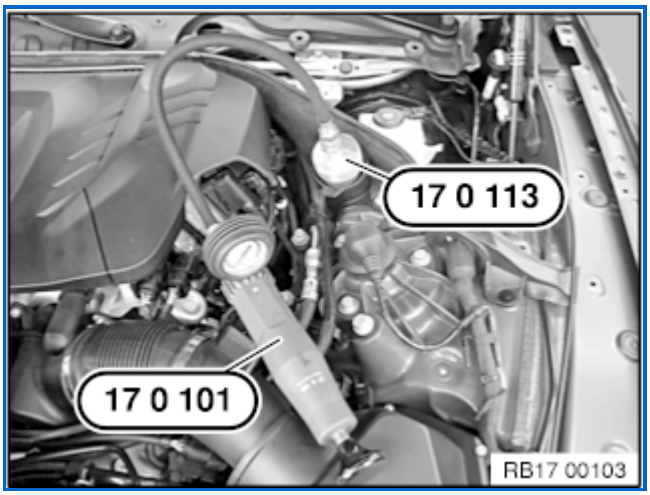
Catch and dispose of drained coolant in drip tray (1) and if necessary special tool 00 2 030 (universal hydraulic lifting equipment).

Recycling:

Observe country-specific waste disposal regulations.

Checking pressure drop in cooling system:

Open the sealing cap on the coolant expansion tank. Mount special



tool (1) 17 0 101 and (2) 17 0 113 from the set of special tools 17 0 100.

Build up gauge pressure and wait approx. 2 minutes.

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

Checking pressure relief valve in sealing cap:

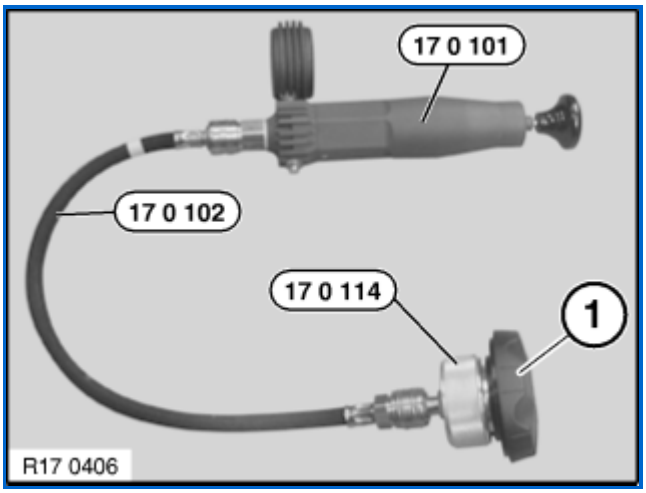
Note:
While driving the vehicle at high outside temperatures, depending on the design, the pressure relief valve in the sealing cap can open slightly and air, together with dissolved coolant, can escape. This coolant vapour condenses on the surface of the expansion tank and leaves traces of coolant when the vehicle has cooled down. These coolant traces do not indicate whether the cap is defective or not. When the vehicle has been parked up for an extended period of time, the residual escaping coolant can cause the pressure relief valve in the sealing cap to stick; therefore check the sealing cap again 2 to 3 times.

Replace the sealing cap only after you have checked three times and there is an incorrect opening pressure.

Checking pressure relief valve in sealing cap:

Screw sealing cap (1) onto special tool 17 0 114 from the special tool set 17 0 100.

Use special tool (hand pump) 17 0 101



from the special tool set 17 0 100 to build up pressure; observe pressure gauge to ascertain when opening pressure is achieved.

Compare opening pressure of pressure relief valve.