

46–130 Checking oil pressure of powersteering pump

Data

Max. speed of powersteering pump	7000/min
Circulating pressure	max. 5 bar gauge pressure (atü)
Pressure relief valve opens at	60 ± 5 bar gauge pressure (atü)

Note: The opening pressure of the pressure relief valve is punched into type plate. The basic color of the type plate is black.

Oil grades

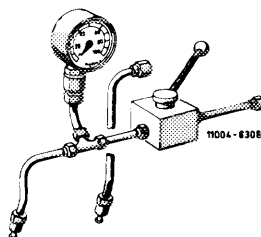
ATF or transmission oil	refer to Specifications for service products page 236.1, 236.2 refer to Specifications for service products page 237
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Filling capacity	approx. 1.5 liter
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Tightening torque	Nm	(kpm)
Pipe nut to high-pressure expanding hose	45–50	(4.5–5)

Special tool

Tester



115 589 13 21 00

Checkup

- 1 Remove closing cover and drain oil with a syringe, since otherwise the oil will run out when unscrewing high-pressure expanding hose.
- 2 Unscrew high-pressure expanding hose at powersteering pump by means of open double-box wrench.

3 Connect high-pressure expanding hose to tester, fill supply tank with specified oil.

4 Run engine at idle speed and complete the following measurements:

a) **with throttle valve open, measure circulating pressure, which should not exceed 5 bar gauge pressure (5 atü).** Do not move steering wheel when measuring, since this would activate the control valve and the pressure would increase.

b) **Connect throttle valve to tester and measure max. pressure** of powersteering pump, while accelerating engine to maintain the speed of approx. 1000/min.

The max. pressure can also be measured by turning the steering wheel to lefthand and righthand lock. **Caution, do not spend too much time for measuring,** since this would cause the oil temperature to rise to non-permissible limit, which in turn would result in damage to powersteering pump.

c) If the pump does not attain the specified pressure, check volume control valve and pressure relief valve and replace, if required.

5 Disconnect high-pressure expanding hose on tester, remove tester, connect high-pressure expanding hose to powersteering pump. Tighten pipe nut to 45–50 Nm (4.5–5 kpm).

6 Fill supply tank up to mark with oil. Add oil with the engine running.

Note: Oil level with oil at operating temperature (approx. 80 °C) up to punched-in mark (approx. 20 mm below edge of tank).

Oil level with engine cold (ambient temperature) 6–8 mm below mark.

7 Check powersteering system for leaks.

