Data					
Max. speed of power steering pump			7000/min.		
Circulation pressure Pressure relief valve opens at			max. 5 bar gauge pressure (atü)		
			65 ± 5 bar gauge pressure (atü)		
Oil grades/filling ca	apacity and oil level check	up			
ATF or gear oil		·	pecifications for service products, page 236.2 pecifications for service products, page 237		
Filling capacity			approx. 1	approx. 1.5 liter	
Oil level checkup:	With the oil at operating temperature (approx. 80 °C) the oil level in supply tank should reac up to punched-in or cast-in mark (approx. 20 mm below edge of tank). With cold oil and at ambient temperature the oil level should be 6–8 mm below mark. For filling up, use only perfectly clean oil, since even minimum particles of dirt may cause trouble in hydraulic system.				
Tightening torque			Nm	(kpm)	
Coupling screw on	high-pressure expanding h	ose	45–50	(4.5–5)	
Special tool					
Tester		11004-9249	115 589 13 21 00		

11004-6359

000 589 68 03 00

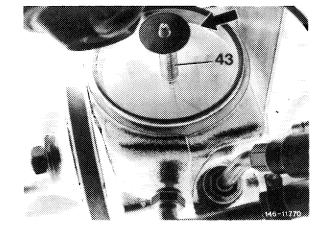
Box wrench element, open

17 mm 1/2" square

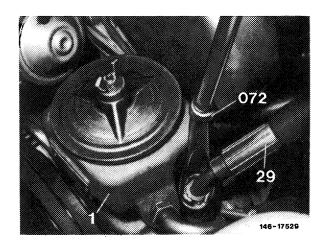
Checkup

1 Remove closing cover and draw off oil with a syringe, since otherwise the oil will run out when unscrewing high-pressure expanding hose.

Note: On Vickers power-steering pump VT 49 1st version, pay attention to disc (arrow).



2 Unscrew high-pressure expanding hose (29) on power steering pump with open box wrench element (072).

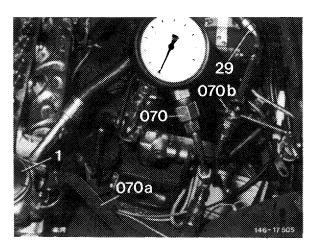


- 3 Connect high-pressure expanding hose (070a) of tester, as well as high pressure expanding hose (29) to tester (070). Fill reservoir with specified oil.
- 4 Run engine at idle speed and perform the following measurements:
- a) with throttle valve opened, measure circulating pressure which should not 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) Close throttle valve on tester and measure max. pressure of power steering pump, while accelerating engine to maintain a speed of approx. 1000/min.

The max. pressure can also be measured by turning the steering to left-hand and right-hand lock.

Caution, do not spend too much time for measuring, since this would cause the oil temperature to rise to non-permissible limits, which would in turn result in damage to power steering 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 power steering pump. Tighten coupling screw to 45–50 Nm (4.5–5 kpm).
- 6 Fill supply tank with oil. Fill up with engine running.

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

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

7 Check servo system for leaks.

