

32-630 Draining and filling hydraulic system

Oil grade

Hydraulic oil refer to Specifications for Service Products page 343³⁾

Filling capacities

| Total capacity of system | | Fluid reservoir made of metal ¹⁾ | Fluid reservoir made of plastics ²⁾ | Fluid reservoir made of plastics ⁴⁾ |
|---|------|---|--|--|
| | | | approx. 4.2 l | approx. 3.5 l |
| Filling capacity of fluid reservoir up to marks on oil dipstick | max. | approx. 2.6 l | approx. 1.8 l | approx. 1.2 l |
| | min. | approx. 2.0 l | approx. 1.2 l | approx. 1.0 l |

¹⁾ Models 107.02, 114, 115; models 116 up to November 1975.

²⁾ Model 116 starting December 1975, models 123, 126 starting begin of production.

³⁾ Available in 1-liter cans part no. 000 989 85 03.

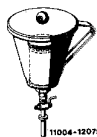
⁴⁾ Model 126 starting 9.85

Permissible oil consumption

For 10 000 km max. 0.4 l

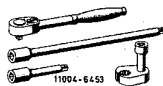
Special tools

Filling funnel with filter



126 589 12 63 00

Box wrench insert open 11 mm 1/4" square, complete with change-over ratchet and 2 extensions for pressure oil lines



116 589 00 17 00

Conventional tools

Open double box wrench 10 x 11 mm

e.g. Hazet, D-5630 Remscheid

Open double box wrench 12 x 14 mm

Order No. 612

32-630 Draining and filling hydraulic system

Note

For tightening pressure lines, use open box wrenches, but by no means standard open-end wrenches, to avoid damaging line connections. For better accessibility of individual line connections, for example on level controller, a special wrench has been developed.

For hollow screws and screw connections use only solid copper sealing rings of specified dimension. Renew sealing rings on principle.

Attention!

Pressure oil pumps MB and Teves operate on self-lubrication, that is, the delivered oil serves simultaneously as a lubricant.

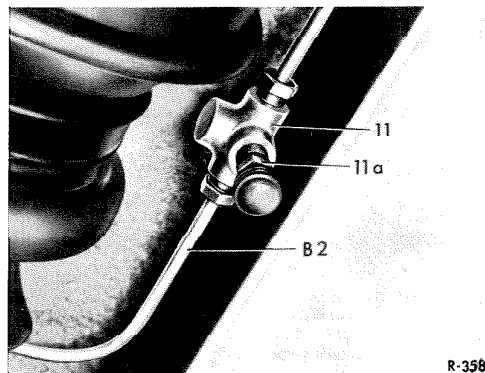
In the event of a defect on level control system which leads to complete loss of hydraulic oil, and when vehicle cannot be repaired immediately, make sure that pressure oil pump Teves is not drawing any air. If required, remove driver of pump drive.

On engines 615, 616, 617, 116 and 117 do not remove driver together with pressure oil pump MB in the event of a defect on level control system, since otherwise the running engine will damage the intermediate gear shaft and the camshaft.

Draining the system

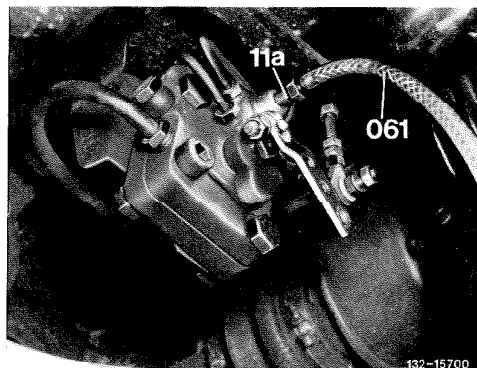
1 Open bleed screw (11a) on distributor (1st version up to February 1977) or on level controller (2nd version starting March 1977) and catch the oil (approx. 0.5 l) in a suitable, clean vessel.

1st version up to 2/77



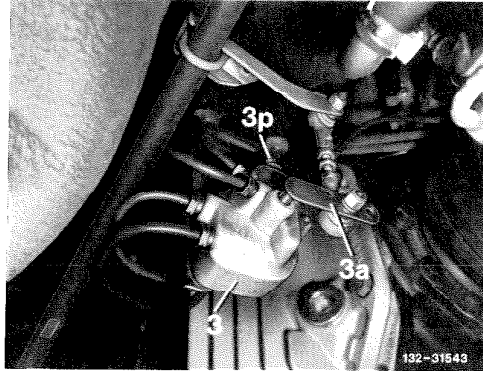
2nd version starting 3/77 up to 8/85

11a Bleed screw
061 Oil drain hose



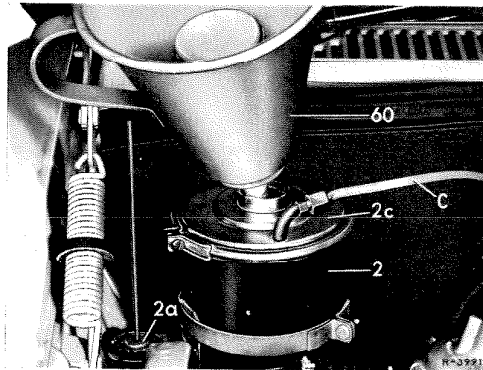
32-630 Draining and filling hydraulic system

Version starting 9/85

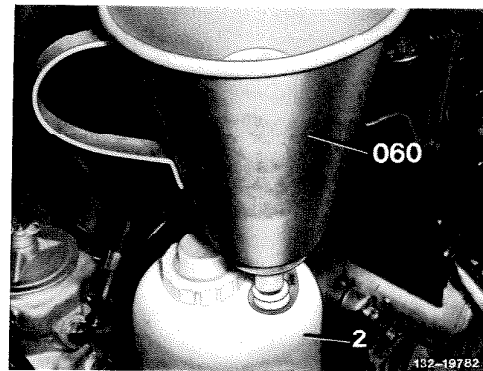


2 Fill caught oil suitably through filling funnel with filter (60) into fluid reservoir (2) in engine compartment.

Fluid reservoir, metal version

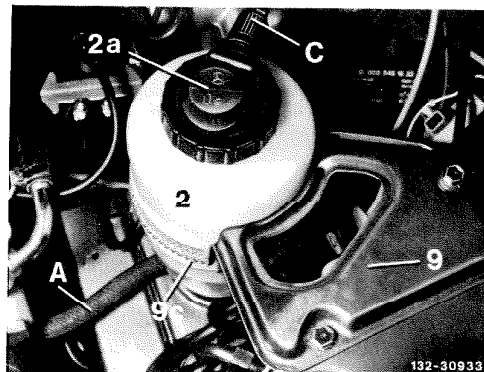


Fluid reservoir, plastic version up to 8/85



Fluid reservoir, plastic version starting 9/85

- 2 Fluid reservoir
- 2a Closing cap with oil dipstick
- 9 Holder for fluid reservoir
- 9c Holding spring
- A Suction line fluid reservoir – pressure oil pump
- C Return flow line level controller – fluid reservoir

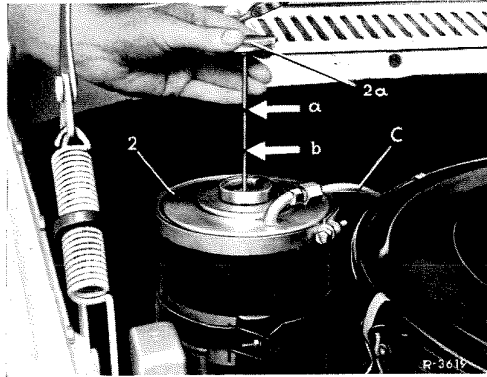


Filling the system

3 Check oil level in fluid reservoir. To fill system with spring struts empty, oil level should be approximately at max. mark (a).

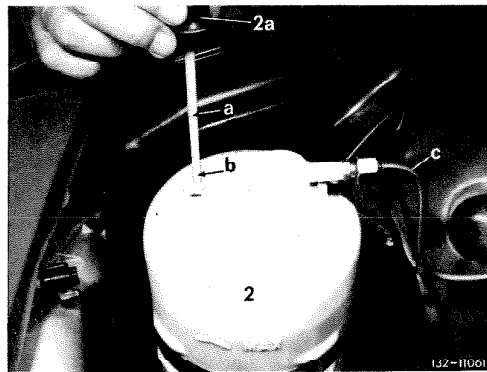
Fluid reservoir, metal version

- 2 Fluid reservoir
- 2a Closing cap with oil dipstick
- a Max. mark
- b Min. mark
- c Return flow line level controller – fluid reservoir



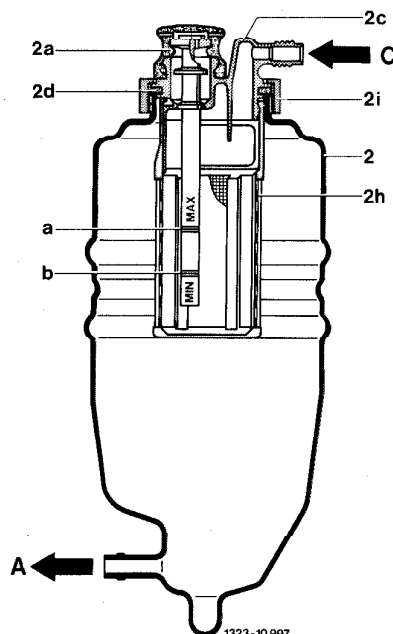
Fluid reservoir, plastic version up to 8/85

- 2 Fluid reservoir
- 2a Closing cap with oil dipstick
- a Max. mark
- b Min. mark
- c Return flow line level controller – fluid reservoir



Fluid reservoir, plastic version starting 9/85

- 2a Closing cap with oil dipstick
- 2c Cover with connection
- 2d Rubber sealing ring
- 2h Filter element
- 2i Closing nut
- a Max. mark
- b Min. mark
- A Suction line fluid reservoir – pressure oil pump
- C Return flow line level controller – fluid reservoir

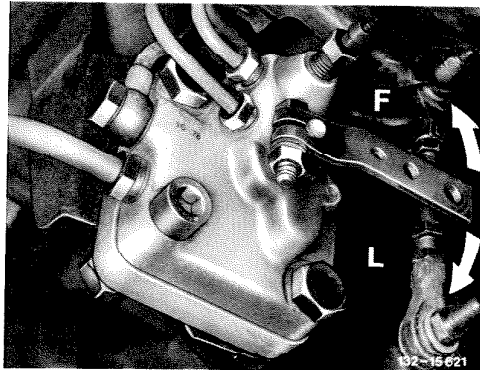


32-630 Draining and filling hydraulic system

4 Run engine for approx. 1 minute at medium speed. While filling up, load vehicle rear in trunk with approx. 150 kg or hold down so that level controller can be set to „filling“.

Note: The system can also be filled with connecting rod disconnected on lever of level controller in position „F“ (filling). For this purpose, run engine at medium speed for approx. 30 seconds. Then mount connecting rod again.

F = Filling position
L = Emptying position



5 Check oil level in fluid reservoir with engine stopped and correct, if required. In operational system in ready-for-driving condition the oil level should be between the „max.“ and „min.“ marks. On fully loaded vehicle the oil level is therefore at „min.“ mark.

Attention!

Use specified hydraulic oil grades only.