

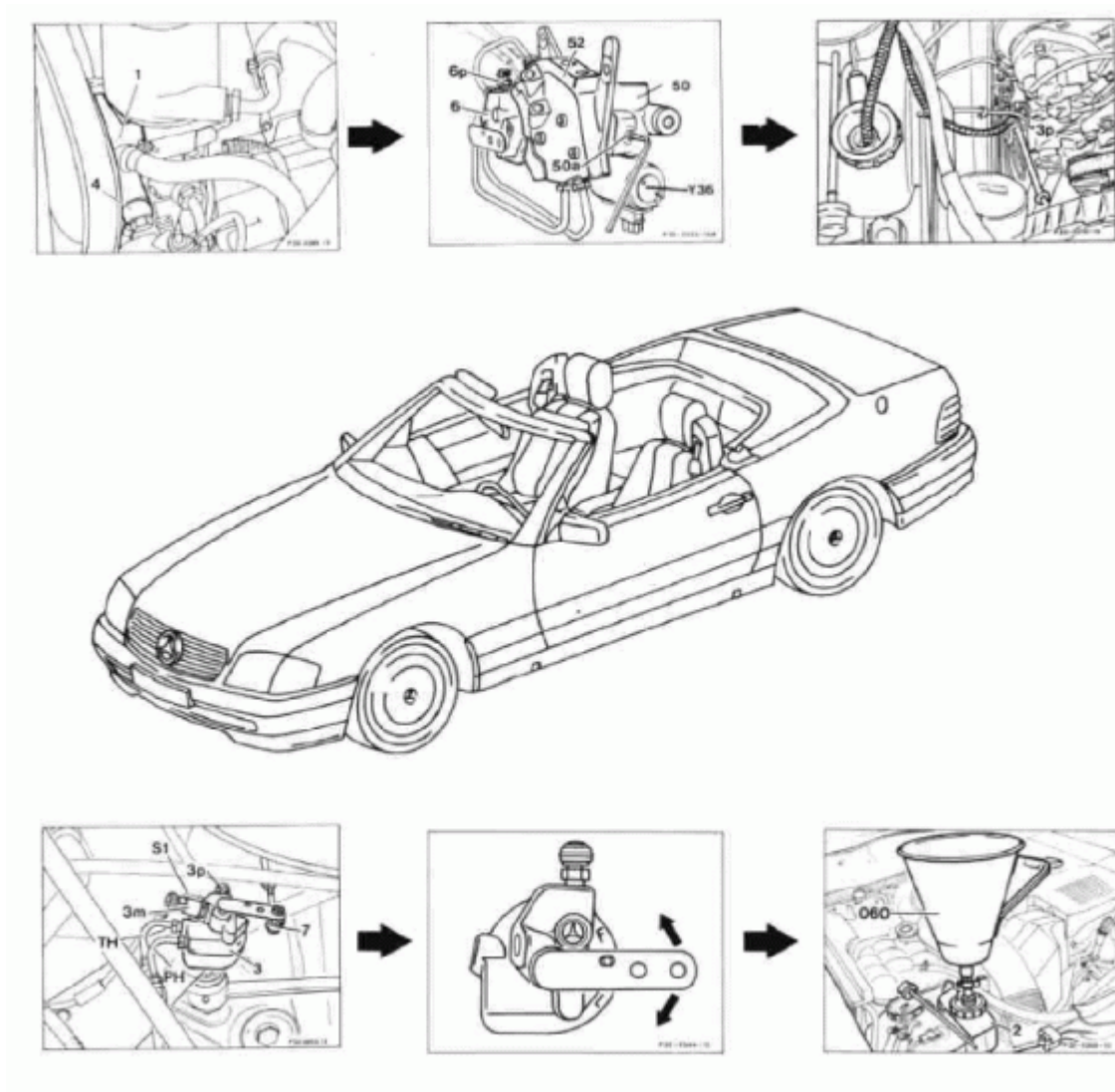
32-0630


Hydraulic system - Draining and refilling

Preceding work:
Lower engine compartment lining removed

Operation no. of operation texts and work units
or standard texts and flat rates: (32-0800)

A. Model 129



Draining pressure oil system	
Bolt (50a)	on distribution valve (50), unscrew by approximately 1 turn (Position 1). Note The Allen bolt (50a) was replaced by a hexagon bolt in 09/90.
Connecting rod/control rod (54, 55)	remove from level controller lever.
Oil drain hose	plug onto, remove from fluid drain plug (3p, 6p) on the level controller (3, 6).  Ensure that the front wheels are pointing straight ahead.
Oil drain plug (3p, 6p)	open slowly and drain the fluid into a clean container. Then reclose the drain plug (3p, 6p), 14 Nm (Position 5).
Filling pressure oil system	
Level control switch	put into "normal level" position. The red indicator lamp in the switch must not light up.
Oil reservoir (2)	fill hydraulic oil into the oil reservoir (2) with funnel 126 589 12 63 00, until the oil level is between the "min." and "max." marking on the oil dipstick.
Lever on level control unit	press into position "Fill" (No. 8).
Engine	allow to run at approx. 2000 rpm, until level of vehicle visibly rises at front and rear axle. Switch off engine. Pay attention to oil level in oil reservoir (note information No. 9).
Screw (50a)	screw into distributor valve (50).
Connecting rod/control rod (54, 55)	install on level controller lever (3, 6). Replace self-locking hexagon nut, 10 Nm.
Engine	start, allow to run at approx. 2000 rpm.
Pressure oil system	fill until the normal vehicle level is reached, whilst noting the oil level.

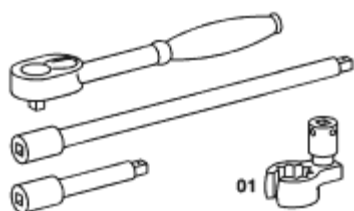


If during repair work the oil reservoir (2) has been emptied or the pressure oil pump (1) replaced or the high pressure extending hose (4) has been replaced or unscrewed, the pressure oil pump must be bled.

Special tools



126 589 12 63 00
27 32



116 589 00 17 00
32

Service products and capacities

Hydraulic fluid	see Specifications for Service Products, Page 343 (1.0 liter can, Part No. 000 989 91 03/10)
Total capacity of system	approx. 4.5 l



Use a line wrench for tightening the pressure lines, and under no circumstances a normal open-end wrench in order to avoid damage to the line connections. Use special tool to improve access to individual line connections. Only use solid copper sealing rings of the specified dimensions for the banjo bolts. Always replace sealing rings.

Note

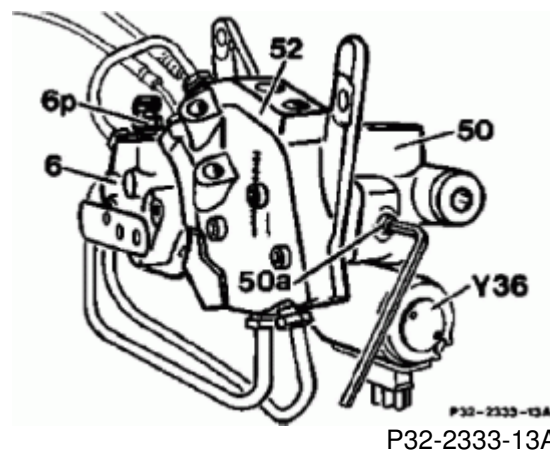
The pressure oil pump has its own lubrication, i.e. the oil delivered acts simultaneously as lubricant.

Scope of work

Draining pressure oil system

- 1 Unscrew bolt (50a) approximately one turn using 4 mm Allan key.

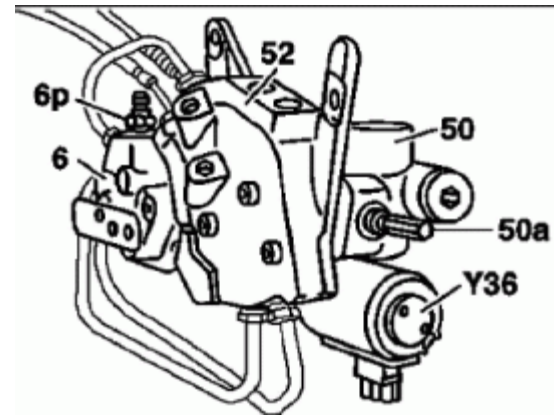
Version installed up to 8/90
50 Distribution valve



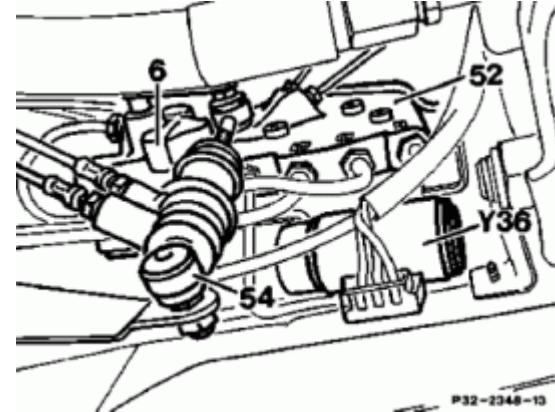
Note

In 9/90 the Allen-type pressure supply bolt (50a) was replaced by a 10 mm hexagon bolt.

Version installed since 8/90
50 Distribution valve



- 2 If connecting rod/control rod is fitted. Remove connecting rod/control rod (54) at the lever of the level control unit (6). If necessary use open-end wrench to hold hinge pin in position.

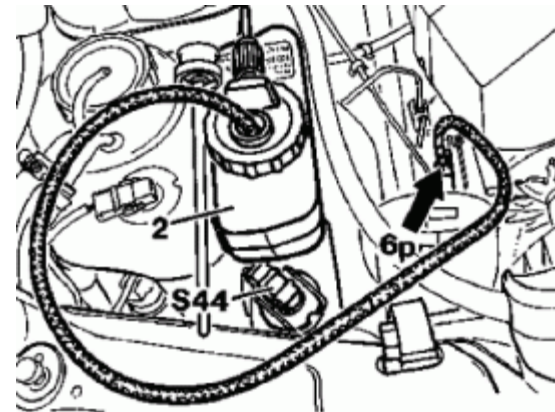


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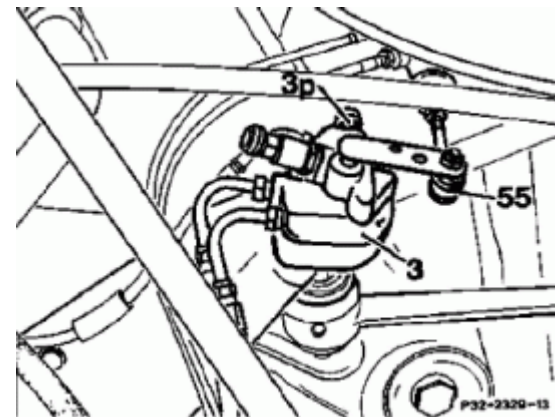
Ensure that the front wheels are pointing straight ahead.

- 3 Slowly open oil drain plug (6p) whilst collecting the oil in an oil reservoir (2). Then retighten oil drain plug, 14 Nm.



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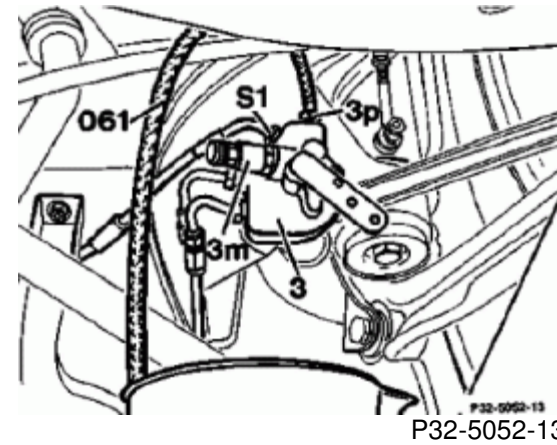
- 4 If connecting rod/control rod is fitted. Remove connecting rod/control rod (55) at the lever of the level control unit (3). If necessary use open-end wrench to hold hinge pin in position.



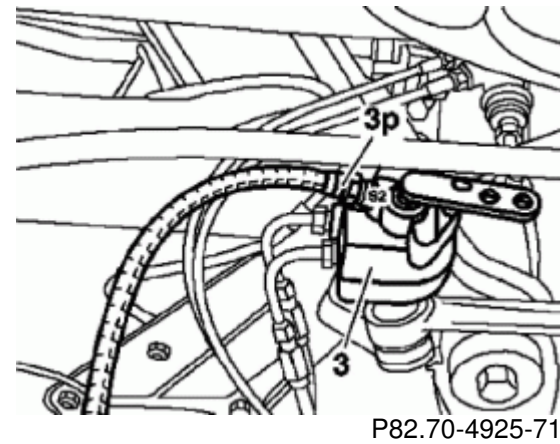
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- 5 Plug the fluid drain hose (061) onto the level controller's (3) fluid drain plug (3p).
 Slowly open the drain plug (3p) and allow the fluid to drain into a clean container.
 Then reclose the drain plug, 14 Nm.

Version installed up to 9/92 - Drain plug at upper connection on level controller (A)

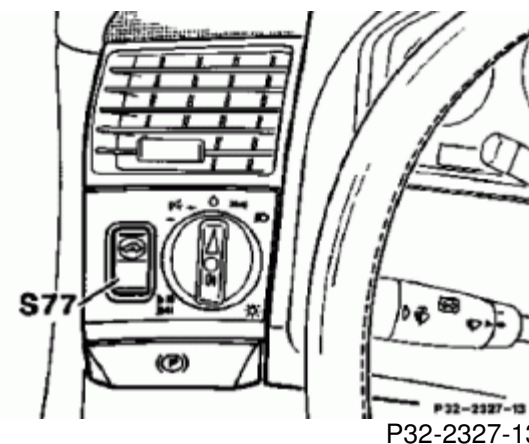


Version installed since 10/92 - Drain plug at connection on level controller (S2)

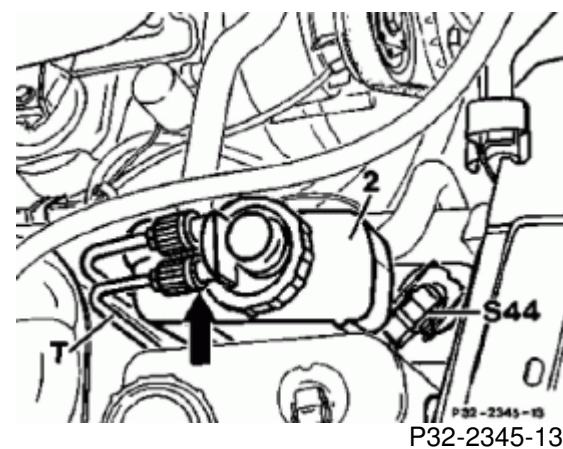


Filling pressure oil system
(except for USA model)

- 6 Move level control switch (S77) into "normal level" position. Red indicator lamp in switch must not light up.



Fluid reservoir with 2 connections for ASD-equipped vehicles



All models

7 Use funnel with strainer (060) to fill oil reservoir (2) with oil, until the oil level is between the "min." and "max." markings on the oil dipstick.

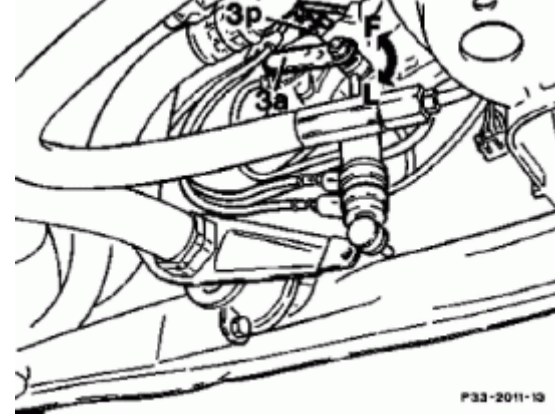
Note
Only re-use clean oil.

Oil reservoir with 1 connection for vehicles without ASD



8 Move lever (6a, 3a) of level control unit on front and rear axle into position "Fill".

Front suspension
F=Fill
L=Drain

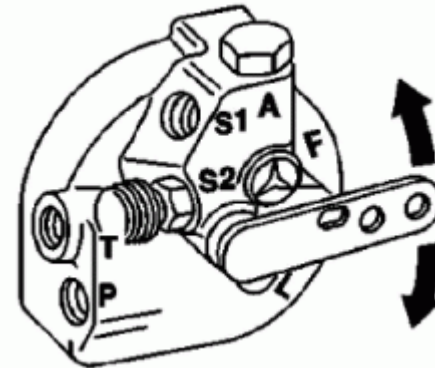


P32-2350-13

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Rear suspension
F=Fill
L=Drain



9 Allow engine to run at approx. 2000 rpm until the level of vehicle rises visibly at front and rear axle. Note oil level in oil reservoir.

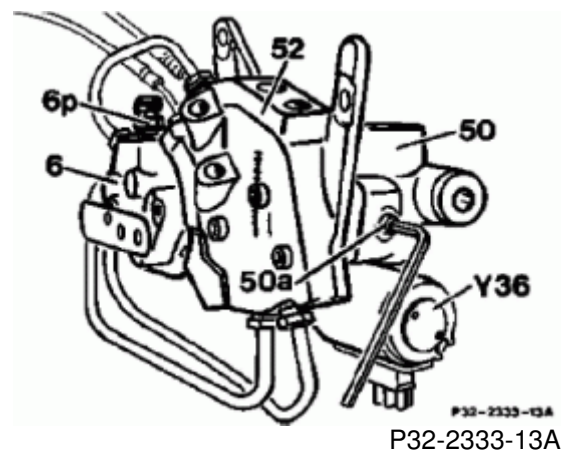
Note

The hydraulic system is not fully charged until the vehicle's suspension has extended to its maximum height. This procedure may be accompanied by whistling and bumping noises. The bolt (50a) in the distributor valve (50) must be open while the system is being charged (Position 11).

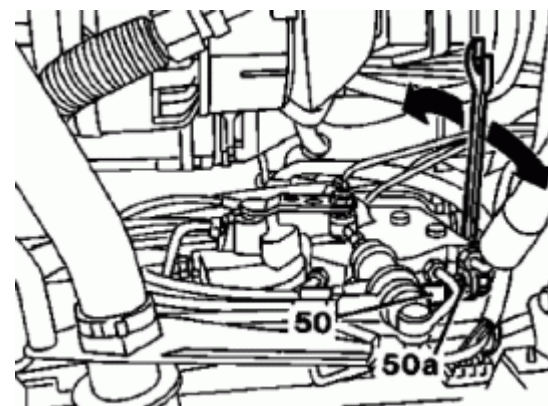
10 Switch off engine.

11 Screw bolt (50a) into distributor valve (50).

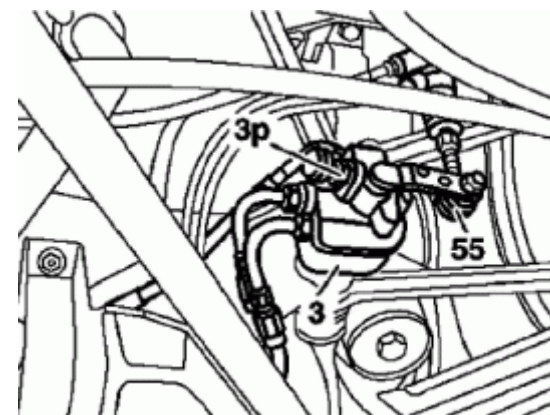
Version installed up to 8/90



Version as of 9/90

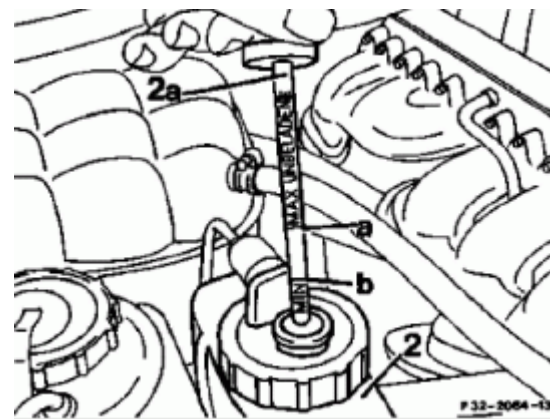


12 Mount the linkage rod/control rod (54, 55) on the lever on the level controller (rear suspension), or on the lever on the torsion bar (front suspension), 10 Nm.
 Shown on rear axle 55 Control rod, level control unit, rear axle



- 13 Start the engine and let it run at about 2000 rpm.
- 14 Charge the hydraulic system until the vehicle reaches its normal ride height. Monitor the fluid level continuously during this procedure. When engine is not running, the level in oil reservoir must be between the markings "max." and "min.".

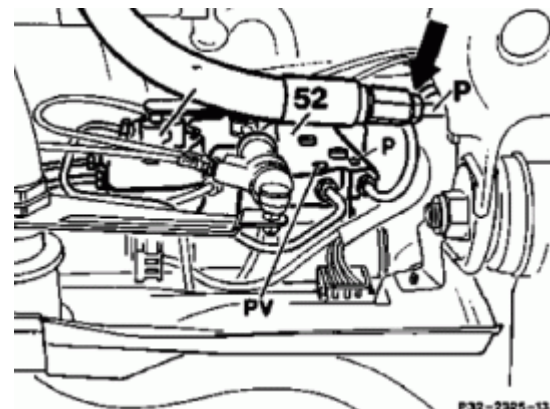
- 2 Oil reservoir
 2a Sealing cap on oil dipstick
 a Maximum mark
 b Minimum mark



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If during repair work, the oil reservoir has been emptied or the pressure oil pump replaced or the high pressure extending hose is replaced or unscrewed, the pressure oil pump must be bled. For this step, when the engine is running the high pressure extending hose disconnected at the steel line (P) must be held in a container, until no bubbles appear in the escaping oil. Then repeat the work steps Nos. 6-14.



P32-2325-13A

Note

After charging the hydraulic system, discharge the remaining air from the system by taking the vehicle for a test drive on an undulating, uneven road surface. Then recheck the fluid level (Position 14).