

## 32–530 Checking pressure oil pump

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### Data

Model	116.036	126.033, 126.037
Transmission ratio engine: pressure oil pump	1 : 0.6	1 : 0.815
Minimum delivery pressure at n = 2000/min of engine in bar gauge pressure	200 <sup>1)</sup>	

### Delivery capacity of pressure oil pump

Minimum delivery capacity of engine	at n = 1000/min	0.2 l in 30 s
and a backpressure of approx. 200 bar gauge pressure <sup>1)</sup>	at n = 2000/min	0.45 l in 30 s

1) Opening pressure of pressure relief valve in tester.

Note: The delivery capacities of pressure oil pump named above apply to suspension system at operating temperature. For this reason, check in this condition only.

### Tightening torque

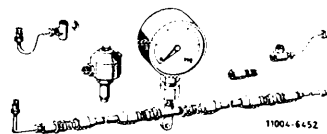
Nm

Pressure hose pressure oil pump – pressure regulator M 14 x 1.5

45

### Special tool

Pressure tester for level control and hydro pneumatic suspension



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### Note

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Checking of pressure oil pump is required whenever:

- the specified cut-out pressure is not attained when checking pressure regulator of valve unit,
- the time of the switching period is clearly exceeded (32–540),
- the red warning lamp is occasionally lighting up at low engine speed,
- when during switchover to "H" = higher level that level is attained rather late.

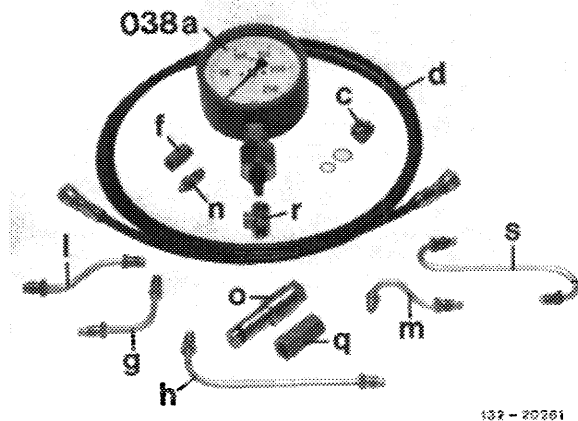
In all cases, the cause is insufficient delivery of oil pump.

For checking delivery capacity of pressure oil pump, check delivery volume at a backpressure generated by pressure tester.

Prior to starting checkup, also check suspension system for external leaks.

Pressure tester (038) is used for checking

- 038 Pressure tester
- 038 a Pressure gauge 0–250 bar gauge pressure with connection, coupling nut and sealing ring
- c Adapter
- d Pressure testing hose
- f Coupling
- g Pressure testing line
- h Pressure testing line
- l Pressure testing line
- m Pressure testing line
- n Vent screw
- o Pump test valve
- q Coupling
- r Distributor
- s Pressure test line
- Sealing rings C 14 x 18
- Sealing rings C 10 x 13.5

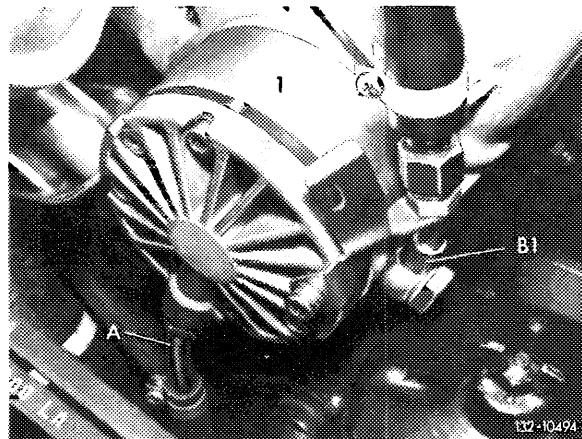


132-20261

## A. Model 116.036

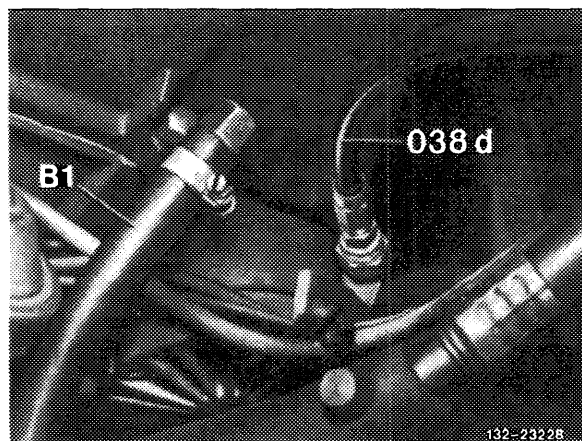
### Checkup

- 1 Check oil level in suspension system (32–600).
- 2 Unscrew pressure hose (B1) from pressure oil pump to pressure regulator of valve unit.



117-10494

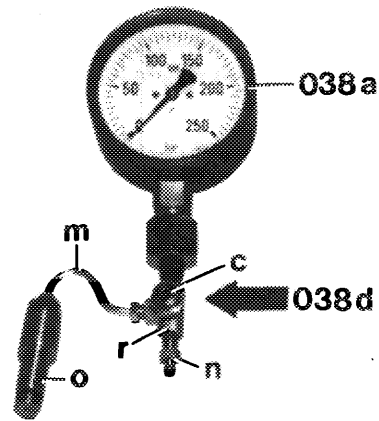
- 3 Connect pressure testing hose (038d).



132-2322B

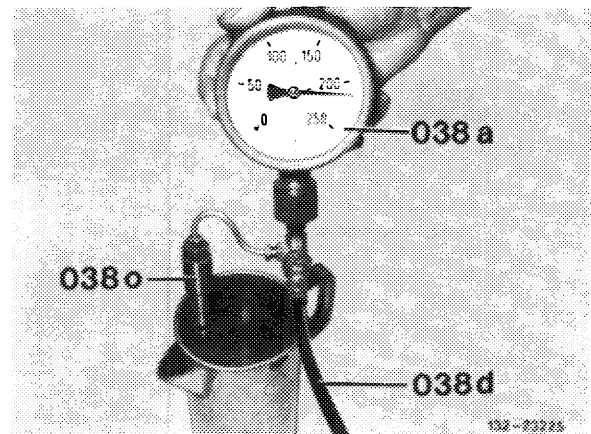
4 For checkup, assemble pressure tester as shown in illustration.

- 038 a Pressure gauge 0–250 bar with connection, coupling nut and sealing ring
- c Adapter
- m Pressure testing line
- n Vent screw
- o Pump test valve
- 038 d Pressure testing hose
- r Distributor



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5 Connect pressure testing line (038d) to pressure gauge (038a) with pump test valve (038o) and hold into a measuring flask (approx. 1 liter capacity).

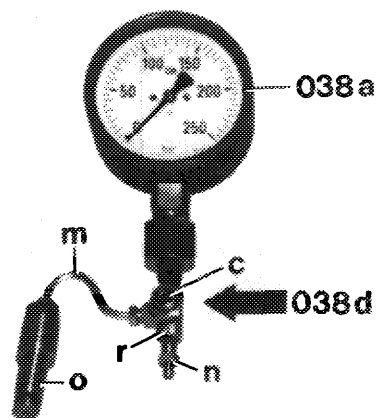


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6 Run engine at idle, while watching pressure gauge. The pressure oil pump delivers here against pump pressure valve (038o) of tester. Attainment of minimum delivery pressure or opening of pressure relief valve of approx. 200 bar gauge pressure is shown by stopping of pressure gauge indicator needle.

7 To check delivery quantity, keep engine running, while measuring delivery volume (refer to data).

8 Stop engine. Make pressure tester pressureless by opening vent screw (038n) in distributor (038r).



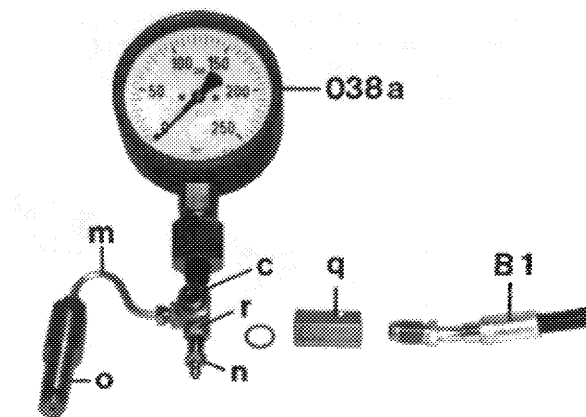
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- 9 Close pressure line (B1) again.
- 10 Correct oil level in suspension system (32–600).

## B. Models 126.033, 126.037

For checkup, assemble pressure tester as shown in illustration.

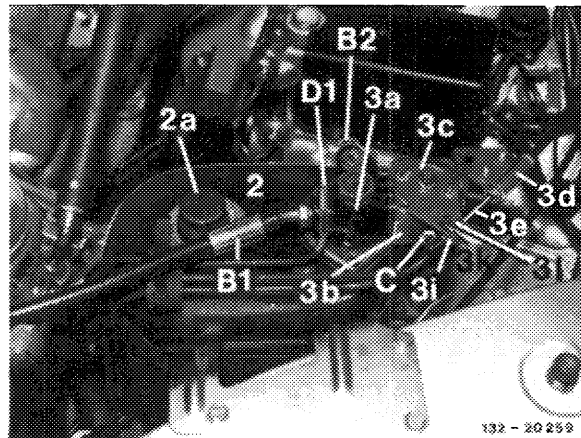
- 038 a Pressure gauge 0–250 bar with connection, coupling nut and sealing ring  
 c Adapter  
 m Pressure testing line  
 n Vent screw  
 o Pump test valve  
 q Coupling, sealing ring C 14 x 18  
 r Distributor  
 B1 Connection pressure hose of pressure oil pump-pressure regulator



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### Checkup

- 1 Check oil level in suspension system (32–600).
- 2 Unscrew pressure hose (B1) from pressure oil pump to pressure regulator (3a) of valve unit.

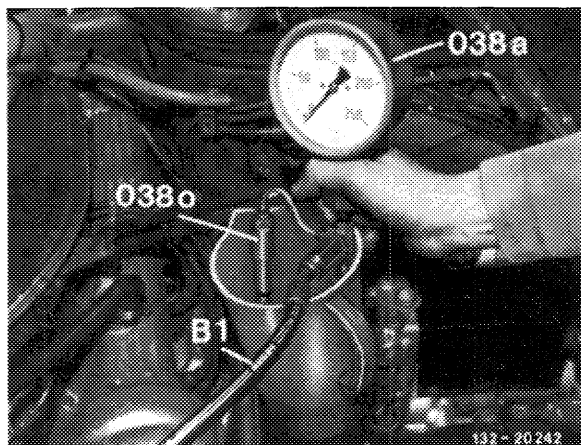


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3 Connect pressure line (B1) to pressure gauge (038a) with pump test valve (038o) and hold into a measuring flask (approx. 1 liter capacity).

4 Run engine at idle, while watching pressure gauge. The pressure oil pump delivers here against pump pressure valve (038c) of tester. Attainment of minimum delivery pressure or opening of pressure relief valve of approx. 200 bar gauge pressure is shown by stopping of pressure gauge indicator needle.

5 To check delivery quantity, keep engine running, while measuring delivery volume (refer to data).



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