

## Hydraulic Test Program - System Pressure

### Preparation for test

1. Check, and correct, if necessary oil level in reservoir.
2. Remove plastic cover over hydraulic unit.



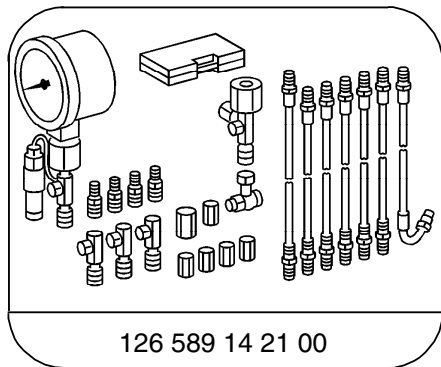
If reservoir was empty, bleed the supply pump as follows: Disconnect the high pressure hose (P) from the steel line. With the engine running, hold the hose in a container until the oil contains no more bubbles.

### Note:

Testing oil supply pump:




SMS Level control Models 124,  
201, Job No. 32-0530

### Special Tools

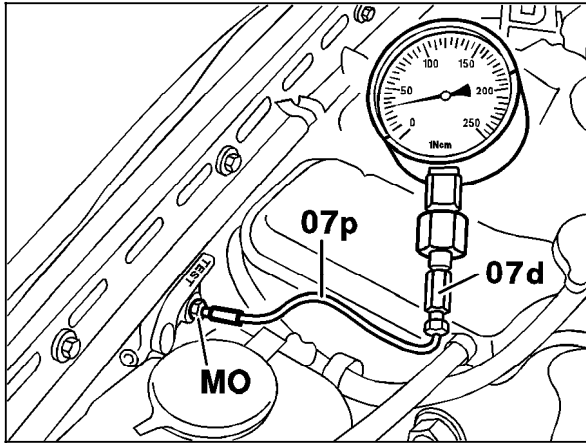


Tester

Hydraulic Test Program - System Pressure

Test step DTC	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0 <b>only vehicles up to 04/91</b>	<b>Service valve</b> System pressure	Service valve in “ <b>TEST</b> ” position ⊗ 250 bar gauge connected to service valve connection “ <b>MO</b> ”. (Figure 1, 2)	Engine: <b>at idle</b> Service valve in operating position.	25 – 36 bar	Pressure < 25 bar: Oil supply pump, Service valve.  Pressure > 36 bar: hydraulic unit.   For testing vehicles with level control, refer to SMS Level control, Models 124, 201, Job No. 32-0530.
⇒ 2.0	<b>Pressure accumulator</b> Gas charge pressure System pressure	<b>Vehicles up to 04/91</b> Service valve in “ <b>TEST</b> ” position ⊗ 250 bar gauge connected to service valve connection “ <b>MO</b> ”. (Figure 1, 2)  <b>Vehicles starting 05/91</b> Release accumulator pressure at screw plug (16, Fig. 3) ⊗ 250 bar gauge connected to service valve connection “ <b>M</b> ”. (Figure 2, 3)	 <b>Perform routinely only on vehicles with &gt; 30,000 miles.</b>  Engine: <b>at idle</b> Service valve in operating position or switch (S7/3) in “ <b>FUNKTION</b> ” position.	<b>Rapid</b> pressure increase to 10 – 22 bar, followed by <b>slow</b> pressure increase to 36 bar.	Rapid pressure increase to 36 bar: Pressure accumulator Pressure < 25 bar: Oil supply pump Pressure > 36 bar: Hydraulic unit.   For testing vehicles with level control, refer to SMS Level control, Models 124, 201, Job No. 32-0530.

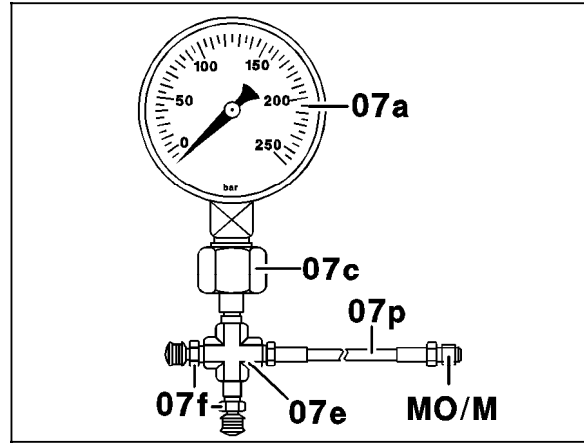
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Figure 1

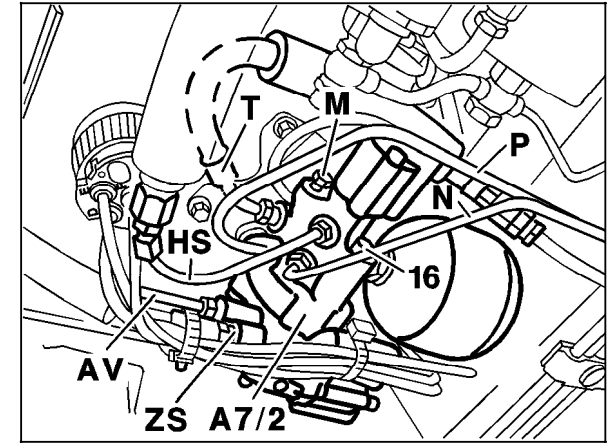
- 07d Connector fitting
- 07p Pressure testing hose
- Mo System pressure measuring connection



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Figure 2

- 07a 0-250 bar pressure gauge
- 07c Connecting fitting for pressure gauge
- 07e 4-way fitting
- 07f Bleeder screw
- 07p Pressure testing hose
- Mo/M Measuring connection



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Figure 3

- A7/2 4MATIC hydraulic unit
- AV Front axle drivetrain solenoid valve connection
- HS Rear axle differential lock solenoid valve connection
- M Measuring connection with screw plug
- N Return line to service valve with connection to level control valve
- P Pressure line
- T Hydraulic unit return line
- ZS Central differential lock solenoid valve connection
- 16 Pressure release screw plug