

Hydraulic Test Program - Leveling Valve Pressure Test

Preparation for Test

1. Check oil level in oil reservoir, correct if necessary.
2. Unscrew connecting rod at front and rear leveling valve levers (set levers to neutral position).
3. Depressurize hydraulic system by slowly opening bleeder screw (3p or 6p). Connect drain hose and place into container.
4. Connect test gauge to leveling valve bleeder screw.

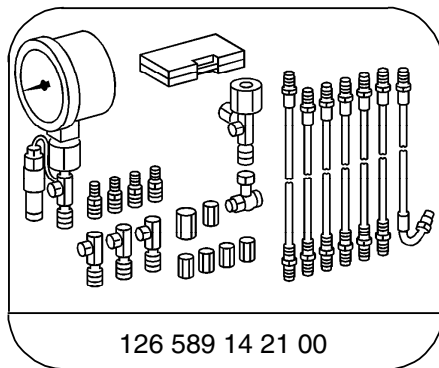
Front axle:

Connection "6p"

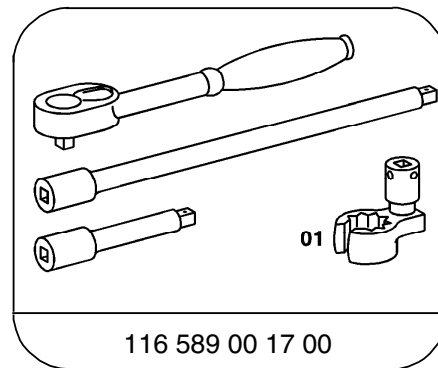
Rear axle:

Connection "3p" or leveling valve connection S2.

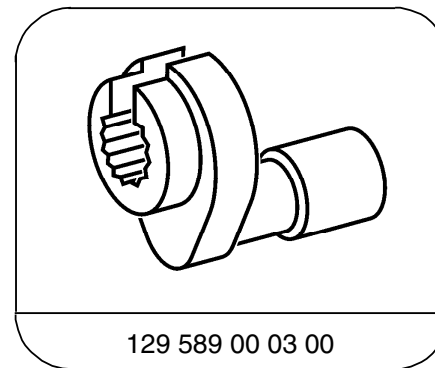
Special Tools



Tester



Box wrench



Box wrench

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Component Locations

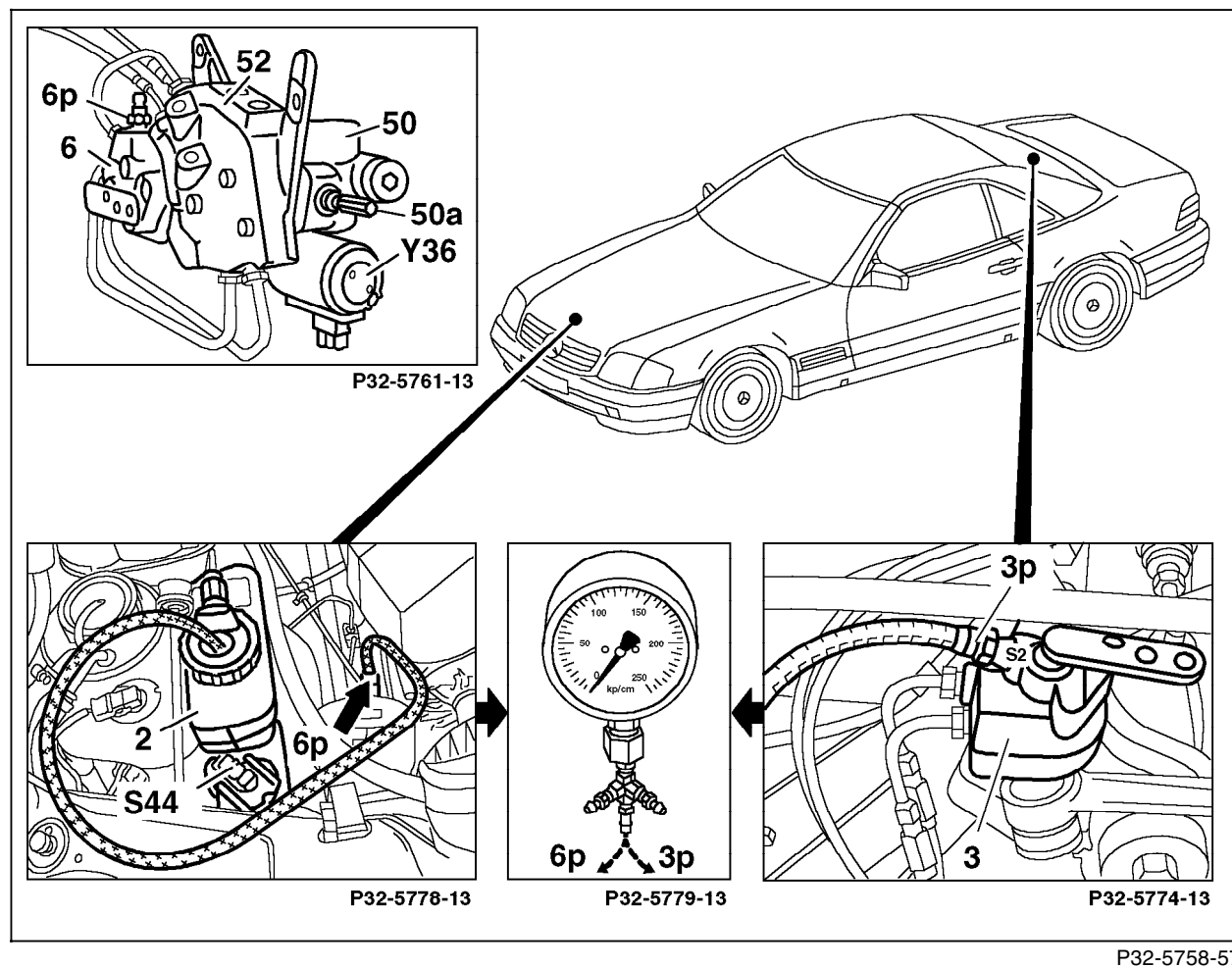





Figure 1

- 3 Rear axle leveling valve
- 3p Bleeder screw
- 6 Front axle leveling valve
- 6p Bleeder screw
- 50a Pressure supply screw

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Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0	Opening pressure of relief valve  WARNING! High Pressure	 250 Connect test gauge to front or rear axle leveling valve	Engine: at Idle Set leveling valve lever to "F" (fill).	133 – 153 bar	<p>> 153 bar Replace leveling valve.</p> <p>< 133 bar Set leveling valve on other axle to "F" (fill) and read pressure again.</p> <p>If new pressure reading is:</p> <p>> 133 bar Check pressure supply screw (50a) for proper seating, Replace valve assembly.</p> <p>< 133 bar 33 ⇒ 1.0</p> <p>Note: If delivery capacity > 0.2l/min., replace leveling valve.</p>

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Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 2.0	Overflow valve function	 250 Connect test gauge to front or rear axle leveling valve	Engine: at Idle Set leveling valve lever to "F" (fill) until gauge indicates approximately 80 bar. Set leveling valve lever to "L" (empty)	30 – 36 bar	Rear axle: Replace leveling valve. Front axle: > 36 bar, replace leveling valve. < 30 bar, 36 ⇒ 1.0. Note: If front axle struts are not leaking, replace leveling valve.