

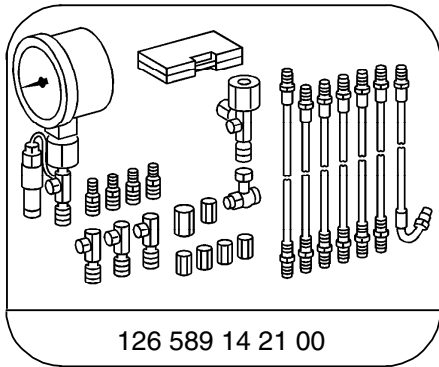
Hydraulic Test Program – Leveling Valve Pressure Test

Preparation for Test

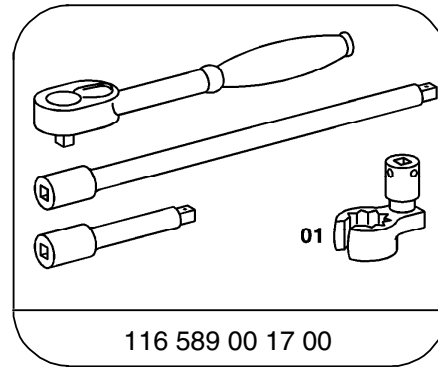
1. Check oil level in oil reservoir, correct if necessary.
2. **Model 129**
Disconnect connecting rod at front and rear leveling valve levers (set levers to neutral position) (Figure 1).
- Model 140**
Disconnect connecting rod at rear leveling valve levers (set lever to neutral position) (Figure 2).
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.

- Model 129**
Front axle: Connection “6p”
- Model 140**
Rear axle: Connection “3p” or leveling valve connection S2.

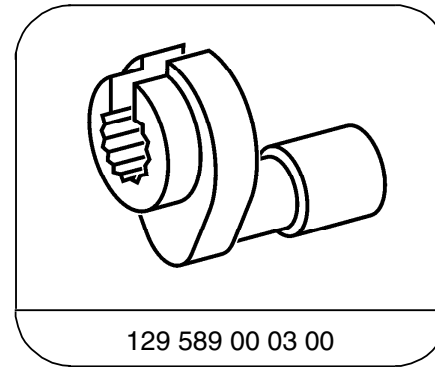
Special Tools



Tester



Box wrench



Box wrench

Hydraulic Test Program – Leveling Valve Pressure Test

Model 129

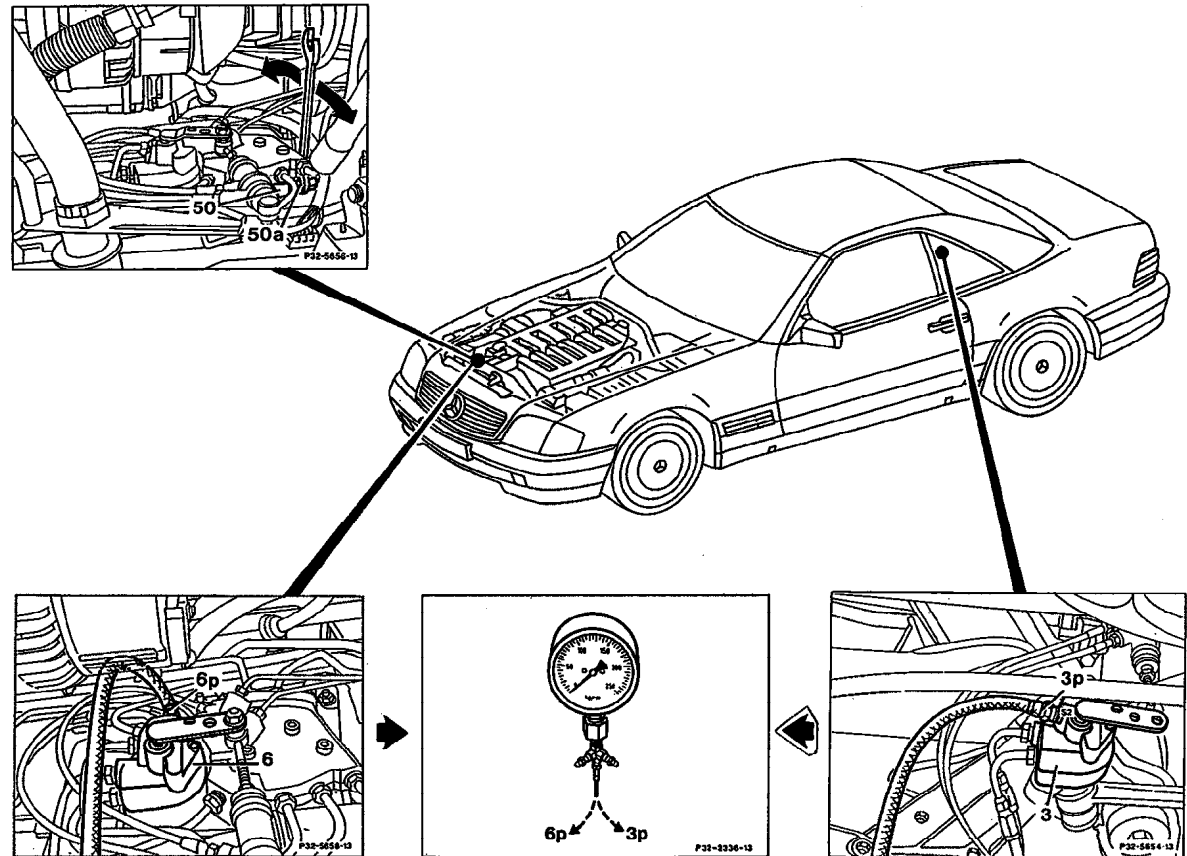




Figure 1


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

P32-5639-57

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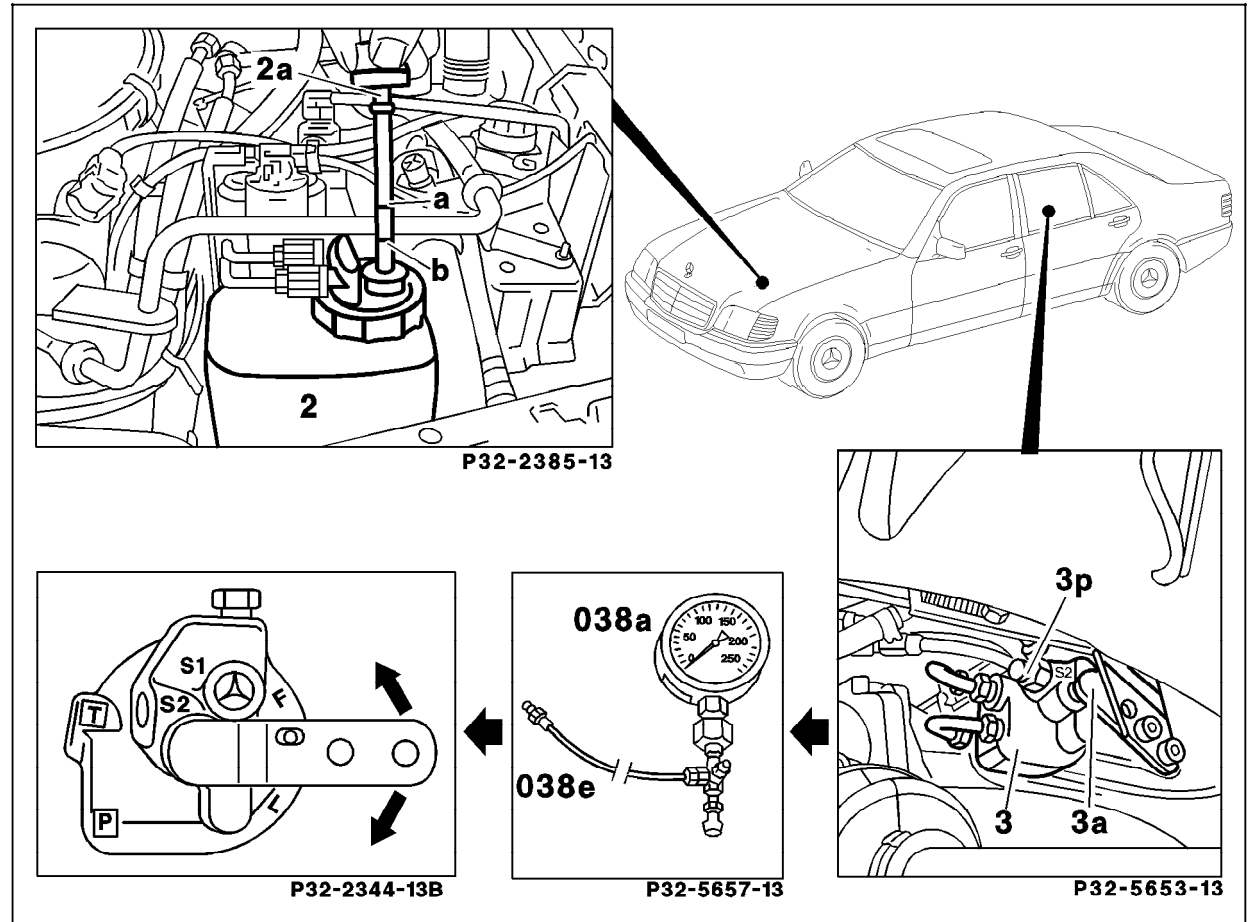
Test step	Test scope	Test connection	Test condition	Nominal value	Possible cause/Remedy
⇒ 1.0	<p>Opening pressure of relief valve</p> <p> WARNING! High Pressure</p>	<p> 250</p> <p>Connect test gauge to front or rear axle leveling valve</p>	<p>Engine: at Idle</p> <p>Set leveling valve lever to “F” (fill).</p>	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>

Hydraulic Test Program – Leveling Valve Pressure Test

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, check front axle struts for fluid leaks 36 ⇒ 1.0. Note: If front axle struts are not leaking, replace leveling valve.

Hydraulic Test Program – Leveling Valve Pressure Test

Model 140






P32-5640-57

Figure 2

- 2 Hydraulic oil reservoir
- 3 Rear axle leveling valve
- 3a Connecting lever
- 3p Bleeder screw
- 7 Connecting rod

Hydraulic Test Program – Leveling Valve Pressure Test

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 rear axle leveling valve	Engine: at Idle Set leveling valve lever to "F" (fill).	133 – 153 bar	> 153 bar Replace leveling valve. < 133 bar Check hydraulic oil pump 32
⇒ 2.0	Overflow valve function	 250 Connect test gauge to 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.