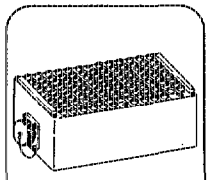
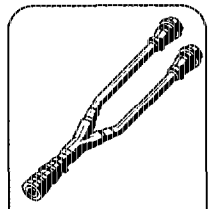
Conditions for test

- Before test work connect brake fluid changing equipment.
- The hydraulic system must be de-pressurized before any work on the hydraulics. To do this, switch off ignition. Open bleed screw "SP" on the ASR hydraulic unit (A7/3) and allow the contents of the accumulator to discharge into the brake fluid receptacle.
- After the test work, first carry out the pressure accumulator charging process (plug on ASR control unit and start engine, allow engine to run until accumulator is full), then correct fluid level in the brake fluid reservoir.
- Test step 1: The specified large tolerance of the pressure value (1.8 - 11 bar) depends on the production tolerances in the pressurizing pump, ASR hydraulic unit and in the check valve of the pressure accumulator.
- Test steps 2 and 3: In the event of a defective return pump/charge pump (A7/3m1), either there is no pressure build-up or too slow a pressure build-up (> 60 seconds).
  In the event of a defective pressure accumulator, the pressure build-up either takes place quickly to values below 50 bar and then slowly again up to maximum pressure or rapidly and continuously up to maximum pressure.

Special tools



129 589 00 21 00
54



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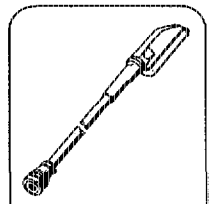

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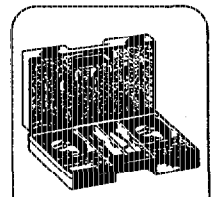
42 54



201 589 00 99 00
15 54

Commercially available tools or testers

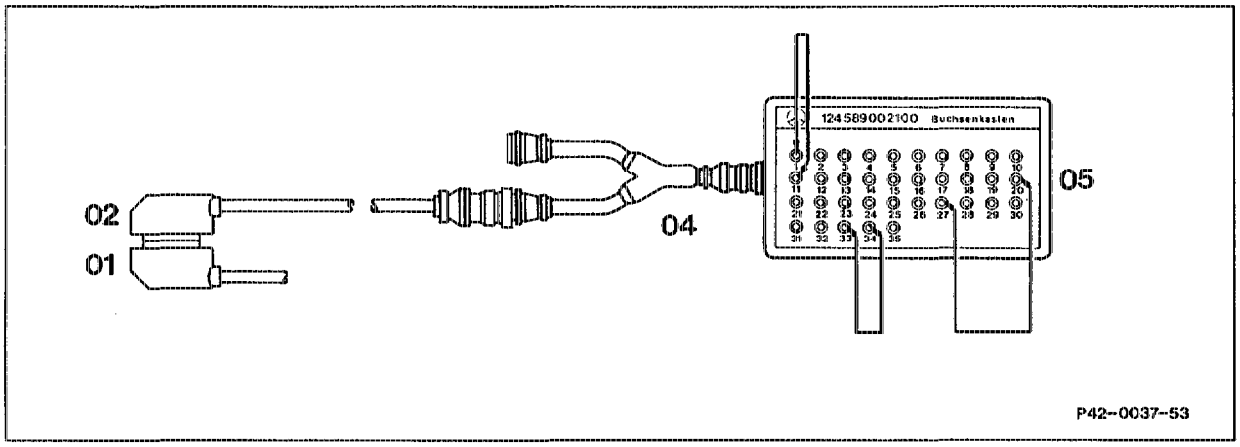
Designation	e.g. Company, part number for ordering
Pressure tester	Teves D - 6000 Frankfurt, Order no. 3.9305-0205.4/01
Brake fluid changing equipment	Romess-Rogg Selecta D B Sturmbühlstr. 182 D - 7730 Villingen-Schwenningen

Connecting testers

⚠

Test step 1

With the ignition switched off, disconnect connector to ASR control unit (N39/1).

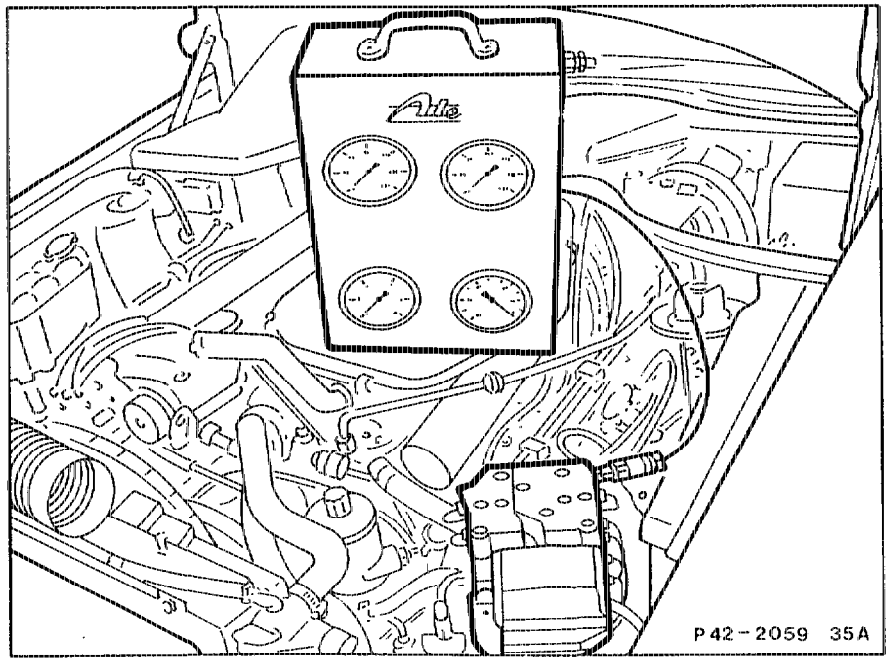


Bridges to socket box (example test step 1)

01	Vehicle cable harness (ASR control unit)		04	Test cable	645 589 00 63 00
02	Test cable	645 589 02 63 00	05	Socket box	129 589 00 21 00

Test steps 1, 2 and 3

Pressure tester to ASR hydraulic unit (A7/3) connection "SP"



Symbol clarification

Socket box

Bridge

Pressure tester

Test program

Test step	Scope of test	Measuring equipment/test connection	Operation/ requirement	Nominal value	Possible cause/remedy
1	ASR pressurizing pump (M15)	10 bar to "SP" N30/1 1 — 11 20 — 27 33 — 34	Ignition: **ON** (max. 60 s)	1.8–11 bar	Cable interrupted, hydraulic connections leaking, replace ASR pressurizing pump (M15).
2	Return pump/ charge pump (A7/3m1)	250 bar to "SP"	Engine: **start**	Pressure increases rapidly to 50-110 bar, then continues slowly to 150-200 bar. Charging time max. 60 s	Hydraulic connections leaking, replace hydraulic unit (A7/3). Also refer to ASR electrics/electronics test program (test steps 39 and 40). Also refer to test step 3!

Test step	Scope of test	Measuring equipment/test connection	Operation/ requirement	Nominal value	Possible cause/remedy
3	Pressure accumulator	(M) 250 bar to "SP"	Engine: **start**	Pressure increases rapidly to 50-110 bar, then con-tinues slowly to 150-200 bar. Charging time max. 60 s	Hydraulic connections leaking. Replace pressure accumulator.