Data

Permissible leaks per vacuum circuit (without vacuum reservoir)	30 mbar/min (0.03 atu) at 400 mbar (0.4 atu) vacuum
Permissible leaks in check valves	50 mbar in 10 min (0.05 atu) at 300 mbar (0.3 atu) vacuum
Permissible leaks in remaining components	20 mbar/min (0.02 atu) at 300 mbar (0.3 atu) vacuum
Plug on length of connections	10 – 12 mm

Special tools

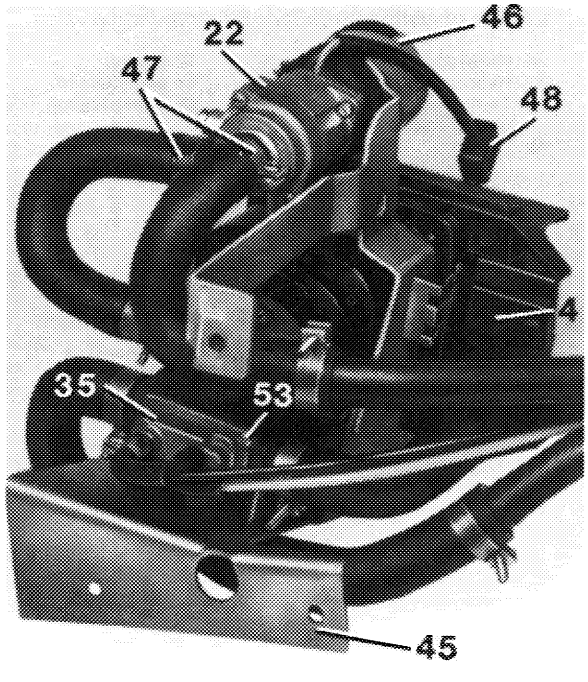
Tester for vacuum systems	116 589 25 21 00
Distributor	115 805 03 22

Self-made tool

5 blind plugs	welding wire 3 mm dia. 40 mm long

Note

The vacuum system is subdivided into 7 test circuits, as well as into testing the pushbutton switch, the main switch, the compressor switches and the change-over valves. If a given trouble prevails (e.g. center jet not opening) the respective circuit can be tested first.



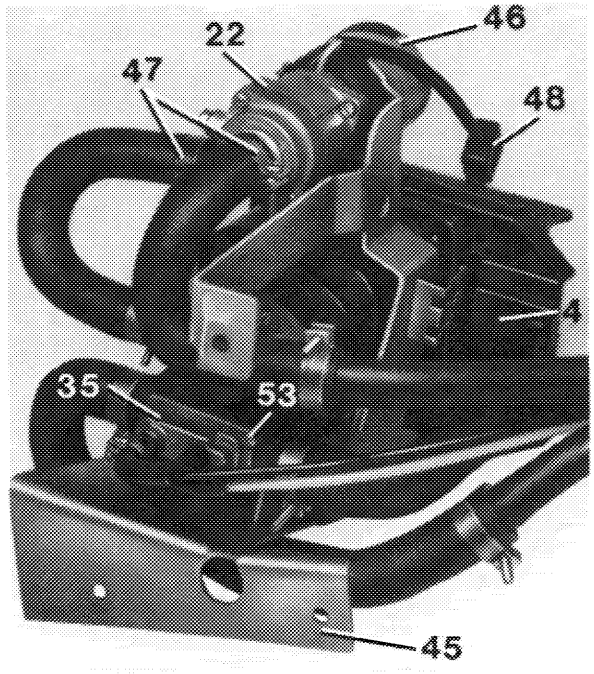
4 Regulating valve
22 Heating water pump
35 Temperature switch (water valve)
45 Holder
46 Clamp
47 Hose clamp
48 Electric plug
53 Screw

183-16593

If a leak or functional trouble is suspected in entire vacuum unit, proceed according to 83–615 and perform each time the first test step (total test) of an individual vacuum circuit until the faulty vacuum is found. Then continue testing the respective circuit until the fault is found.

Preparing for test

1 Run engine arm, approx. 60 °C (140 °F). Temperature switch (35) on regulating valve (4) opens. Then shut off engine again.

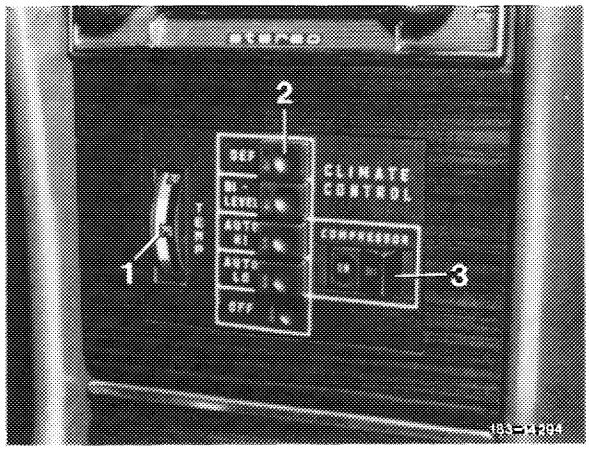


183-16583

Layout of temperature switch in regulating valve

4 Regulating valve
22 Heating water pump
35 Temperature switch (water valve)
45 Holder
46 Clamp
47 Hose clamp
48 Electric plug
53 Screw

2 Push "AUTO-LO" button on pushbutton switch (2). "ON/OFF" switch of refrigerant compressor (3) in position "ON".



1 Temperature dial
2 Pushbutton switch
3 "ON/OFF" switch of refrigerant compressor