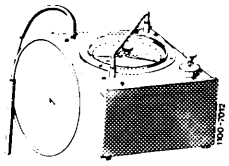
83–628 Testing vacuum switch for refrigerant compressor or vacuum switch (main switch) and switchover valves

Special tool

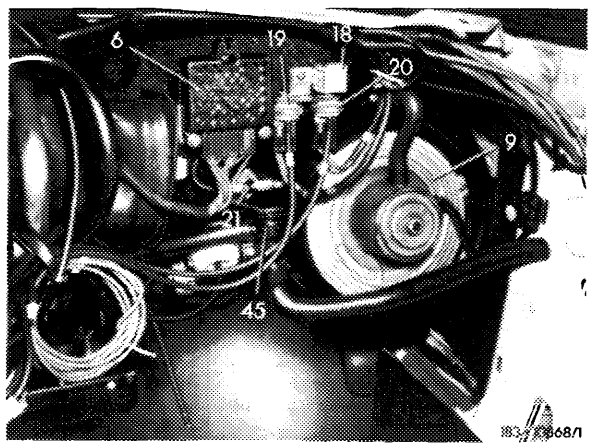
Tester for vacuum systems		116 589 25 21 00

a) Testing vacuum switch

1 Pull vacuum line from vacuum switch (19, 20, 23 and 81) and connect tester.

2 Connect ohmmeter to vacuum switch (19, 20, 23 and 81).

3 Evacuate vacuum switch. Vacuum switch (19) closes at 175 mbar vacuum (0.18 atu), the vacuum switches (20, 23 and 81) at 78.5 mbar vacuum (0.08 atu). Ohmmeter indicates passage.

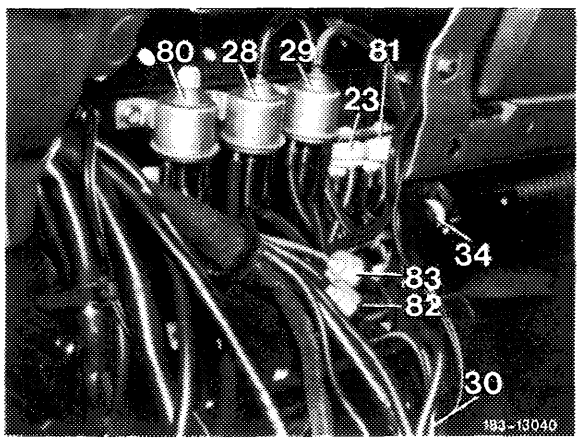


6	Amplifier	20	Vacuum switch(refrigerant compressor, yellow)
9	Blower	21	Temperature switch for heating water pump
18	Double contact relay	45	Air jet nozzle
19	Vacuum switch (main switch, green)		

b) Testing switchover valves (28 and 29) for operation and leaks

4 Remove vacuum lines and electric plug from switchover valve (28 and 29).

5 Connect tester to upper connection of switchover valve (28 and 29) and evacuate.



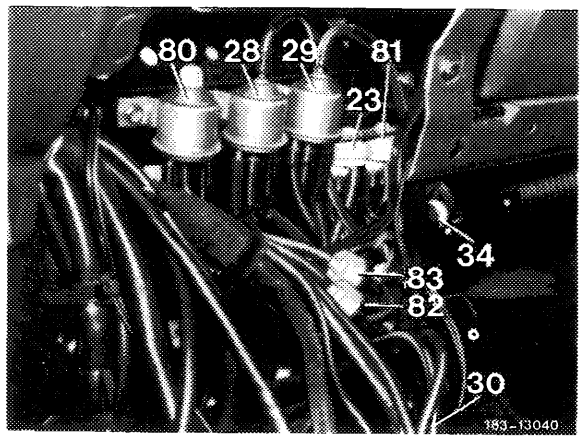
23	Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)	38	Specified leak point
28	Switchover valve	80	Switchover valve ("BI-LEVEL")
29	Switchover valve	81	Vacuum switch (at "BI-LEVEL" only)
30	Vacuum lines	82	Check valve
34	Check valve	83	Check valve

6 If gauge shows a pressure increase, switchover valve is leaking.

7 Energize switchover valve. Switchover valve opens, readout on gauge drops.

c) Testing switchover valve (80) for operation and leaks

8 Remove vacuum line (black) and electric plug from switchover valve (80).



23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)
28 Switchover valve
29 Switchover valve
30 Vacuum lines
34 Check valve
38 Specified leak points
80 Switchover valve ("BI-LEVEL")
81 Vacuum switch (at "BI-LEVEL" only)
82 Check valve
83 Check valve

9 Energize switchover valve.

10 Connect tester to switchover valve connection E and evacuate.

11 If gauge shows pressure increase, switchover valve is leaking and should be replaced.