

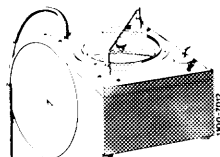
## 83–628 Testing vacuum switch for refrigerant compressor or vacuum switch (main switch) and switchover valves

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### Special tool

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Tester for vacuum systems



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### Testing

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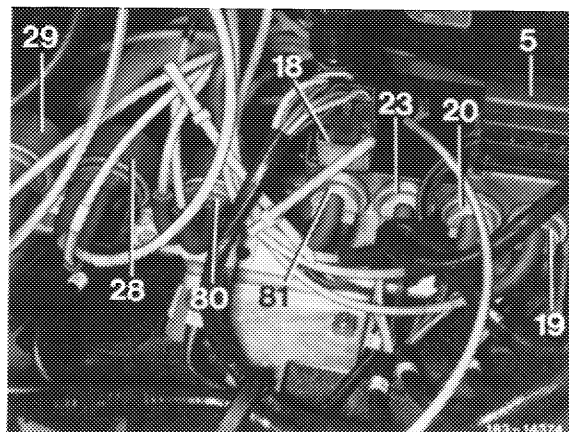
#### a) Testing vacuum switch

1 Pull vacuum line from 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), vacuum switches (20, 23 and 81) at 78.5 mbar vacuum (0.08 atu). Ohmmeter indicates passage.

- 5 10-point plug connection for tester
- 18 Double contact relay
- 19 Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant compressor, yellow)
- 23 Vacuum switch for refrigerant compressor
- 28 Switchover valve legroom flap
- 29 Switchover valve fresh air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (at "BI-LEVEL" only)



#### b) Testing switchover valves (28 and 29) for function 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.

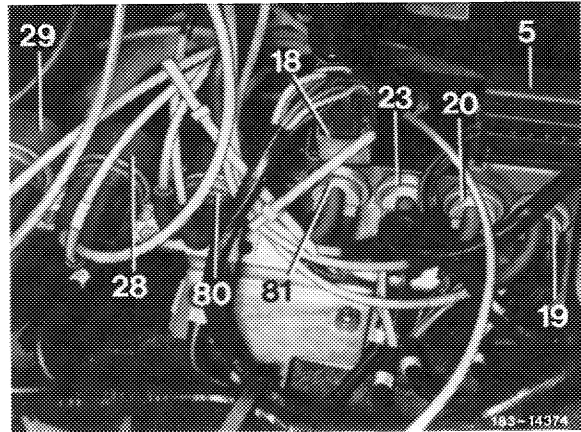
6 If pressure gauge shows a pressure increase, switchover valve is leaking.

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

**c) Testing switchover valve (80) for function and leaks.**

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

- 5 10-point plug connection for tester
- 18 Double contact relay
- 19 Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant compressor, yellow)
- 23 Vacuum switch for refrigerant compressor (only at "BI-LEVEL")
- 28 Switchover valve legroom flap
- 29 Switchover valve fresh air flap
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (at "BI-LEVEL" only)



9 Energize switchover valve.

10 Connect tester to switchover valve connection E and evacuate.

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