

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

Special tool

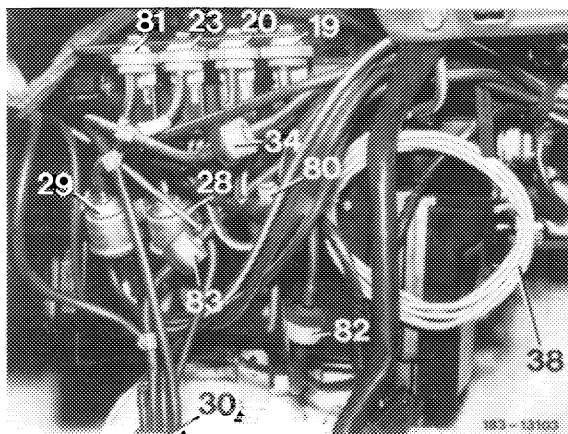
Tester for vacuum systems

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a) Testing vacuum switch.

1 Remove center console (68–200).

- 19 Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant compressor, yellow)
- 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)
- 28 Switchover valve legroom flaps
- 29 Switchover valve (fresh air-recirculated air flap)
- 34 Check valve
- 38 Specified leak point
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (at "BI-LEVEL" only)
- 82 Check valve
- 83 Check valve



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

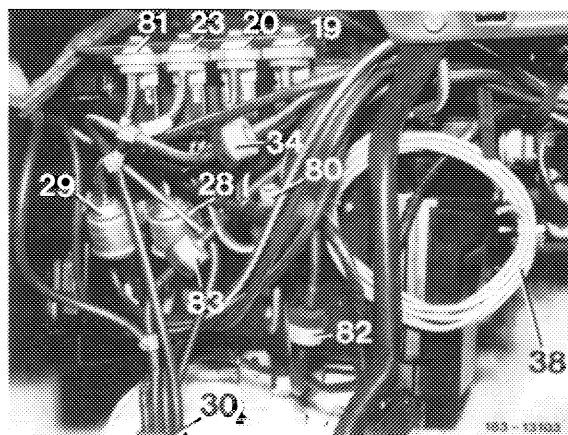
3 Connect ohmmeter to vacuum switch (19, 20, 23 and 81).

4 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.

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

5 Remove vacuum lines and electric plug from switchover valve (28, 29 or 80).

- 19 Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant compressor, yellow)
- 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)
- 28 Switchover valve legroom flaps
- 29 Switchover valve (fresh air-recirculated air flap)
- 34 Check valve
- 38 Specified leak point
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (at "BI-LEVEL" only)
- 82 Check valve
- 83 Check valve

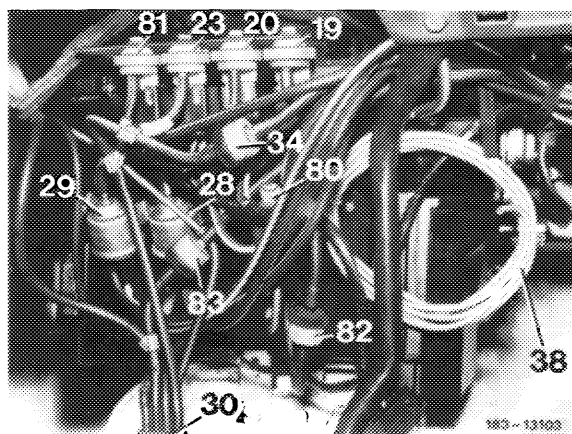


- 6 Connect tester to upper connection of switchover valve (28 and 29) and evacuate.
- 7 If gauge shows a pressure increase, switchover valve is leaking.
- 8 Energize switchover valve. Switchover valve opens, readout on gauge drops.

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

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

- 19 Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant compressor, yellow)
- 23 Vacuum switch for refrigerant compressor (at "BI-LEVEL" only)
- 28 Switchover valve legroom flaps
- 29 Switchover valve (fresh air-recirculated air flap)
- 34 Check valve
- 38 Specified leak point
- 80 Switchover valve "BI-LEVEL" (at "DEF")
- 81 Vacuum switch (at "BI-LEVEL" only)
- 82 Check valve
- 83 Check valve



- 10 Energize switchover valve.
- 11 Connect tester to switchover valve connection E and evacuate.
- 12 If gauge shows pressure increase, switchover valve is leaking and should be replaced.
- 13 Install center console (68–200).