

Data

Permissible leaks in system	6 mbar/min at 400 mbar vacuum
Permissible leaks of individual components	5 mbar/min at 300 mbar vacuum
Plug-on length of connections	12 ± 2 mm

Special Tool

Tester for vacuum systems	116 589 25 21 00
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Checking Vacuum System

Pull check valve (8) out of connection (17) and connect tester (83) (Fig. 1).

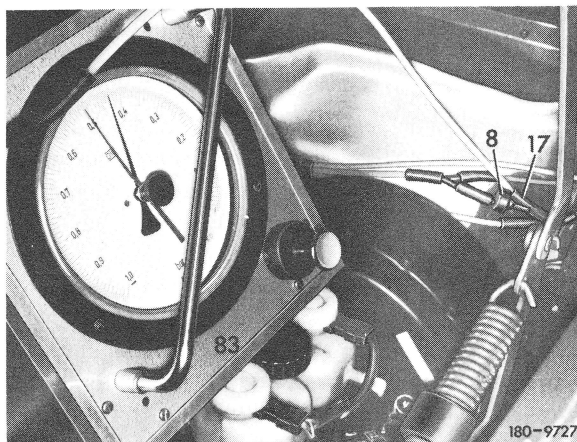


Fig. 1

8 Check valve 83 Tester
17 Connection

Evacuate system in unlocked condition and read pressure gauge of tester for leaks. Check likewise in interlocked condition. Depending on the condition in which a leak occurs (locked or unlocked), check only **white line** in **interlocked condition** and only **black line** in unlocked condition.

Caution! Prior to exchanging vacuum elements of leaking line, check hose lines and their connection points.

One Line is Leaking

If one of the two lines is leaking, systematically check the individual vacuum elements one after the other. Then check only the line in which the leak occurs.

Remove lateral and top cover at front right in legroom (Fig. 2), which will make the distribution members for checking righthand driver's door, flap of tank filler neck and trunk lid accessible.

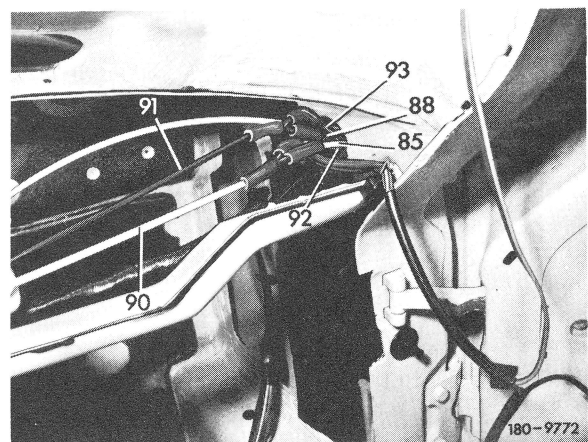


Fig. 2

85 White line tank filler neck flap and trunk lid
88 Black line vacuum element trunk lid
90 White line driver's door left
91 Black line driver's door left
92 White line driver's door right
93 Black line driver's door right

Check vacuum elements for flap of tank filler neck and trunk lid by means of line (85) (Fig. 2).

In the event of a leak, pull white line (87) toward vacuum element of tank filler neck in trunk at rear right out of connection (17) (Fig. 3).

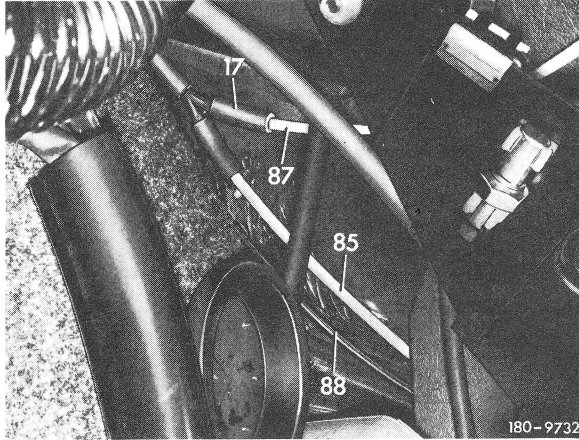


Fig. 3

- 17 Connection
- 85 White line vacuum element trunk lid
- 87 White line flap tank filler neck
- 88 Black line vacuum element trunk lid

Connect tester to white line (87) and evacuate (Fig. 3).

In the event of a leak, renew vacuum element for flap of tank filler neck (80.1–230).

If indication on pressure gauge is not changing, vacuum element for flap of tank filler neck is leaktight. The prevailing leak is therefore in vacuum element for trunk lid.

Renew vacuum element for trunk lid (80.2–240).

If black line (88) (Fig. 3) toward rear end is leaking, leak is at vacuum element for trunk lid only.

Check righthand driver's door on line (92 and 93). Connect tester to (white or black) line and evacuate (Fig. 2).

If indication on pressure gauge changes, fault is in vacuum element of righthand driver's door (80.1–210.)

Both lines are leaking

If both lines are leaking, the leak may be in check valve.

Pull check valve (8) out of connection (17) and connect tester (refer to arrow), evacuate and read pressure gauge (Fig. 4).

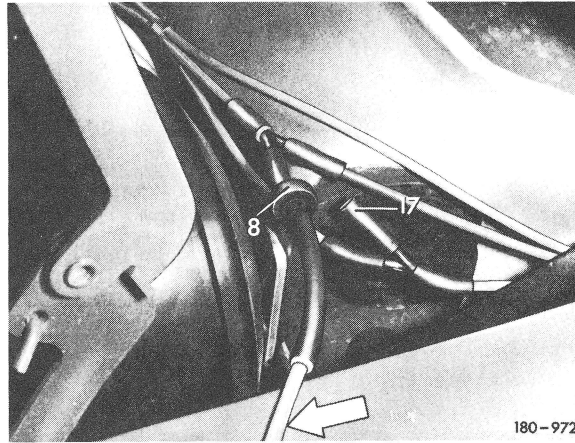


Fig. 4

- 8 Check valve
- 17 Connection

If pressure gauge reading is not changing, check valve is leaktight. If system continues to leak, fault is at vacuum switch in driver's door.

In such a case, remove door lining and check vacuum switch.

For this purpose, pull black and white line from vacuum switch (7) and close connections (17) with blind plugs (84).

Pull off yellow line. Connect vacuum tester (refer to arrow) to center connection of vacuum switch and evacuate (Fig. 5).

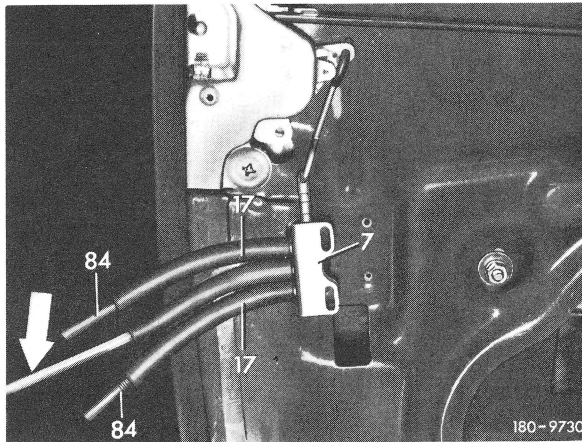


Fig. 5

7 Vacuum switch
17 Connection
84 Blind plugs

Leaking switch will change indication on pressure gauge.

Renew vacuum switch (7) (80.1-200).

Checking Vacuum Supply Tank

Pull yellow line (96) out of connection (17). Connect tester (refer to arrow) to yellow line (96) and evacuate (Fig. 6).

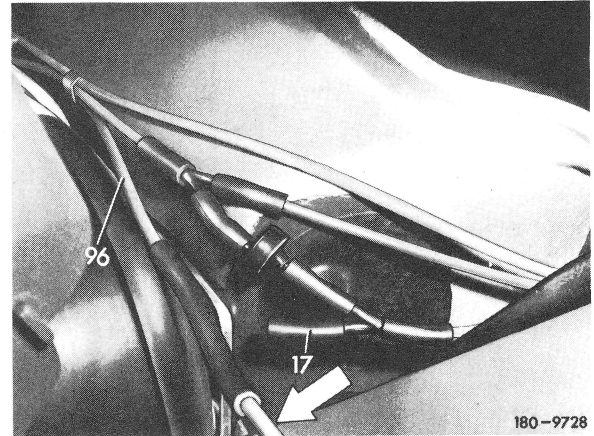


Fig. 6

17 Connection
96 Yellow line toward vacuum supply tank

If indication on pressure gauge changes, renew seal of vacuum supply tank or vacuum supply tank itself, if required (80.1-250).