

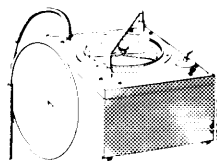
83–665 Removal and installation of vacuum elements

Data

Permissible leaking of vacuum elements	20 mbar min at 300 mbar vacuum
Plug-on length of connections	10–12 mm

Special tool

Tester for vacuum systems

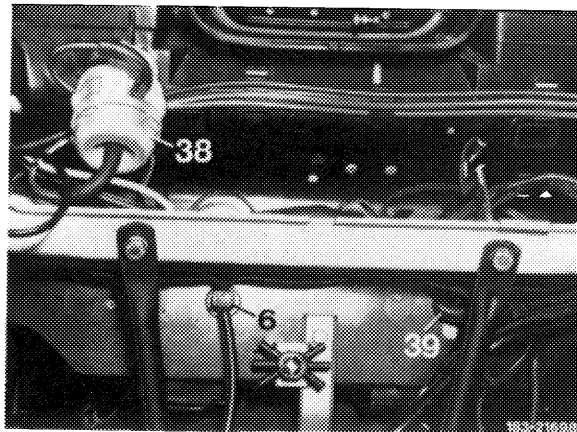


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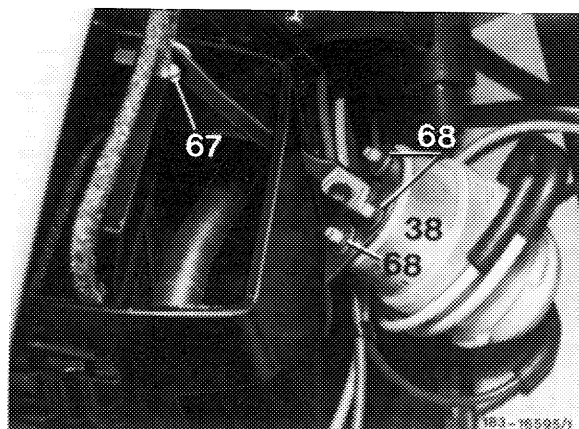
A. Vacuum element (38) for defroster nozzle flaps

Removal

- 1 Remove instrument panel (68–100).
- 2 Pull vacuum lines from vacuum element (38).

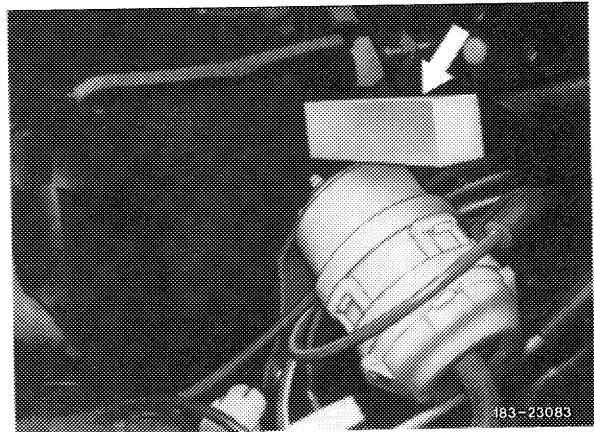


- 3 Remove clamp (67) and lift off lock (68) with a screwdriver.



Installation

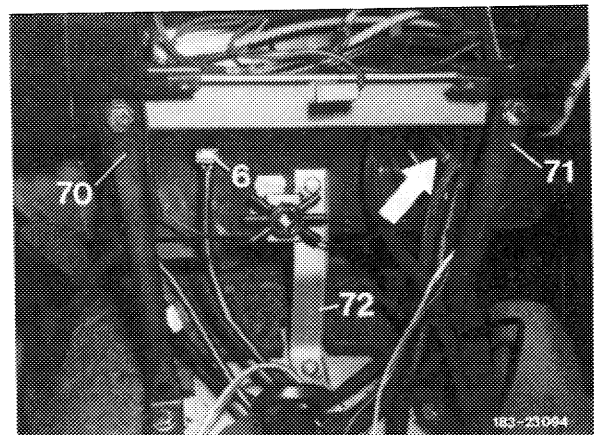
- 4 Fasten vacuum element (38) to holder or air conditioning cabinet with locks (68) and rubber washers.
- 5 Mount connecting rod with clamps (67). Check vacuum element (38) for function and leaking.
- 6 Close defroster nozzle flaps by evacuating vacuum element (38) and clamp down connecting rod of vacuum element by means of a wedge (arrow).
- 7 Mount instrument panel (68–100), then remove wedge and plug vacuum lines, red-white at bottom and red-light blue in center, to vacuum element.



B. Vacuum element (39) for legroom flaps

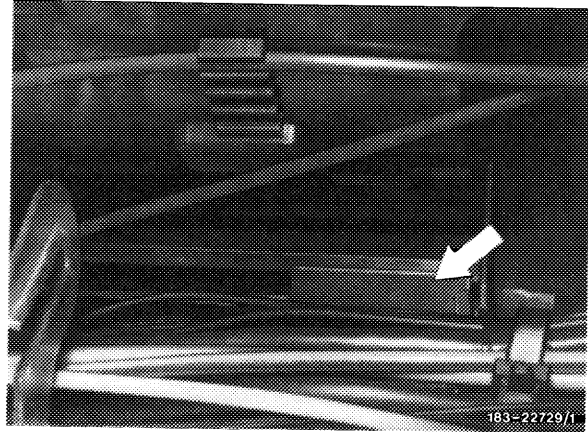
Removal

- 1 Remove center console (68–200).
- 2 Remove support (70 and 71), as well as angle bracket (72).
- 3 Pull 2-pole coupler from temperature sensor (6).
- 4 Pull off vacuum line (arrow) for vacuum element of legroom flaps.



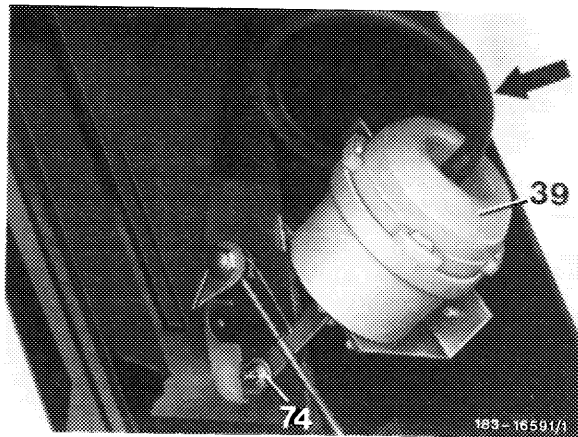
5 Pull out the four clamps (arrow) on air duct-center at front and rear sideways in outward direction.

6 Remove air duct-center downwards to the right.



7 Pull off vacuum line (arrow) on vacuum element (39).

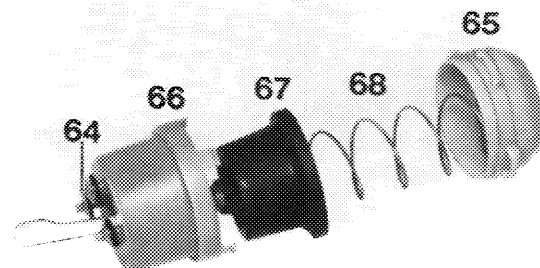
8 Remove clamp (74) from connecting rod.



9 Carefully remove housing top (65) from housing bottom (66), remove spring (68) and sleeve (67).

10 If housing top (65) or sleeve (67) is damaged, remove parts from new vacuum element and install.

11 On damaged housing bottom (66), remove locks (64).



- Vacuum element
- 64 Lock and rubber washer
 - 65 Housing top
 - 66 Housing bottom
 - 67 Sleeve
 - 68 Spring

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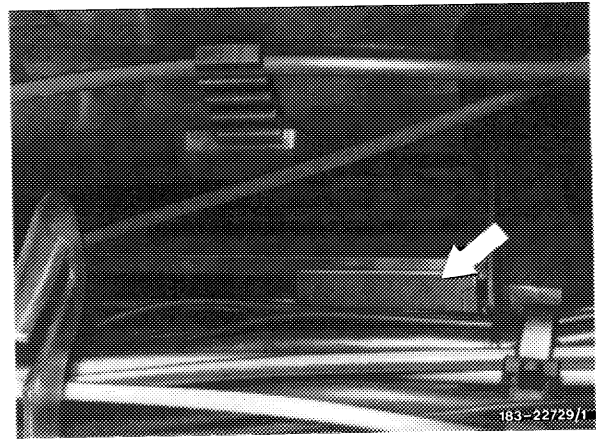
Installation

12 When installing a new vacuum element, always use new locks (64) with rubber washers.

13 Plug on vacuum line, mount connecting rod with clamp (74) and check vacuum element (39) for function and leaks.



14 Mount air duct-center with four clamps (arrow) on heater box.

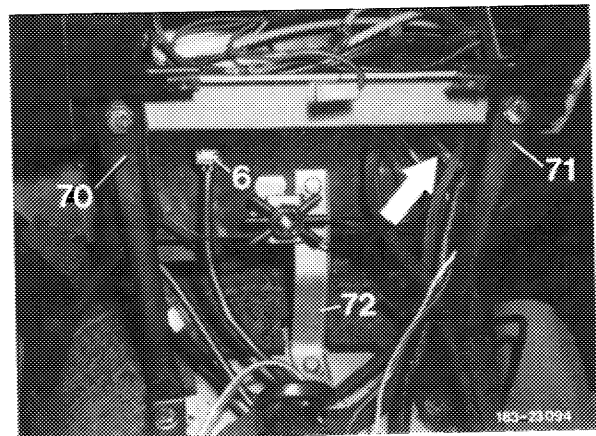


15 Install angle bracket (72) and supports (70 and 71).

16 Plug on vacuum line (arrow) red/yellow for vacuum element of legroom flaps.

17 Plug 2-pole coupler to temperature sensor (6).

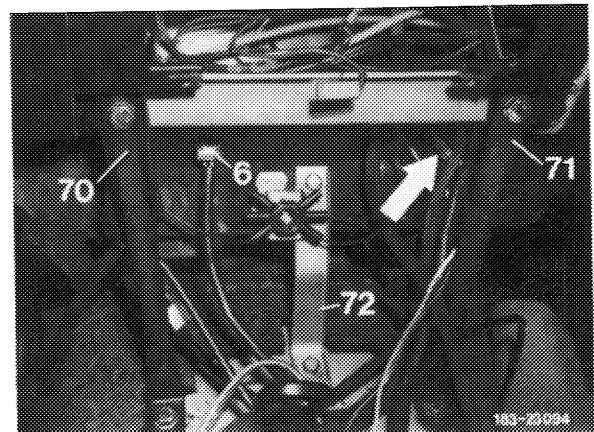
18 Install center console (68–200).



C. Vacuum element (40a) for center nozzle flap (J) (USA) only

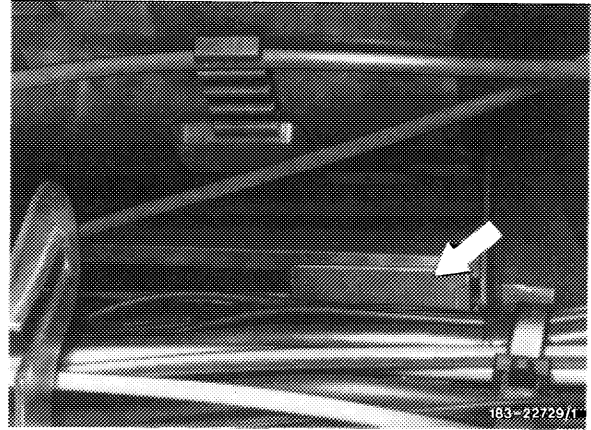
Removal

- 1 Remove center console (68–200).
- 2 Remove instrument panel (68–100).
- 3 Remove support (70 and 71) as well as angle bracket (72).
- 4 Pull 2-pole coupler from temperature sensor (6).
- 5 Pull off vacuum line (arrow) for vacuum element of legroom flaps.
- 6 Disconnect cable connector terminal 58d.

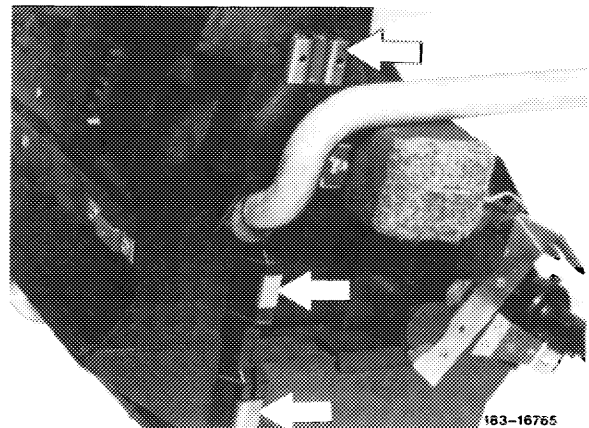
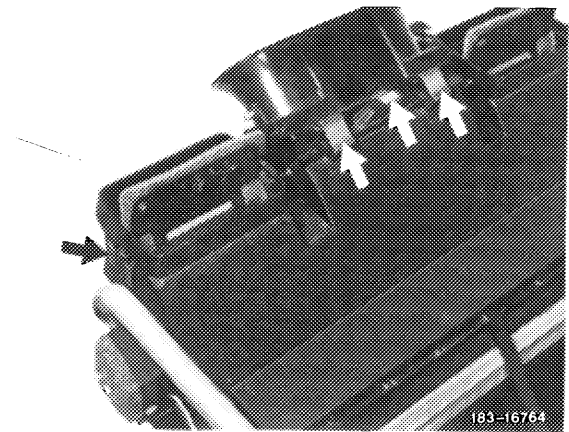


7 Pull out the four clamps (arrow) on air duct-center at front and rear sideways in outward direction.

8 Remove air duct-center in downward direction to the right.

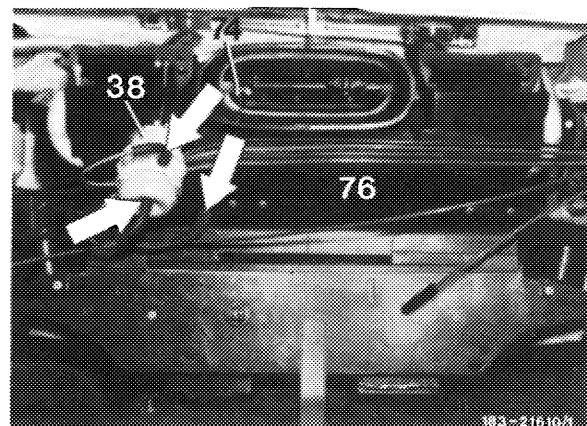


9 Remove clamping springs (arrow) by means of pliers for locking rings from air conditioning cabinet top and scoop.



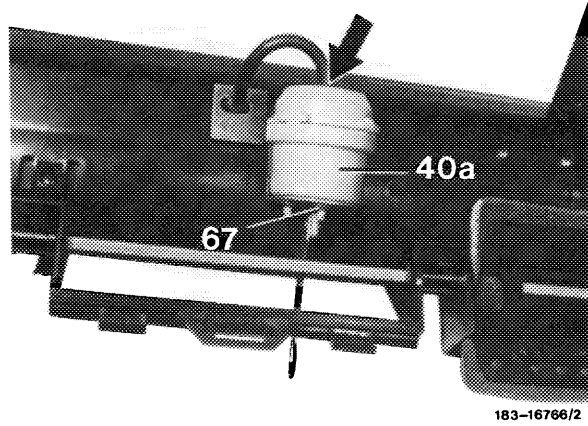
10 Remove clamp (74).

11 Pull off vacuum lines (arrow) on vacuum element (38), as well as connection to vacuum element (40a) and remove top (76).



12 Pull vacuum line (arrow) from vacuum element (40a).

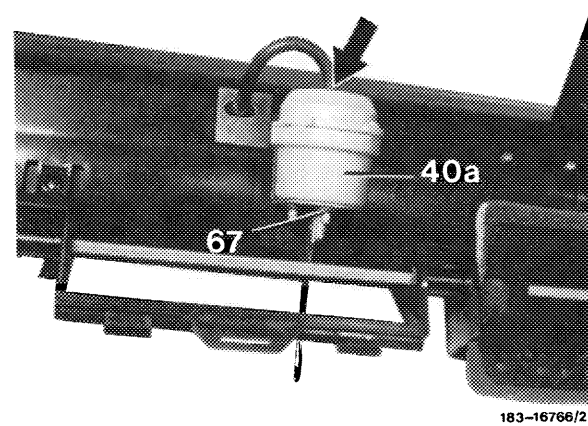
13 Lift off lock (67) by means of a screwdriver.



Installation

14 Fasten vacuum element (40a) on holder or air conditioning cabinet top together with locks (67) and rubber washers.

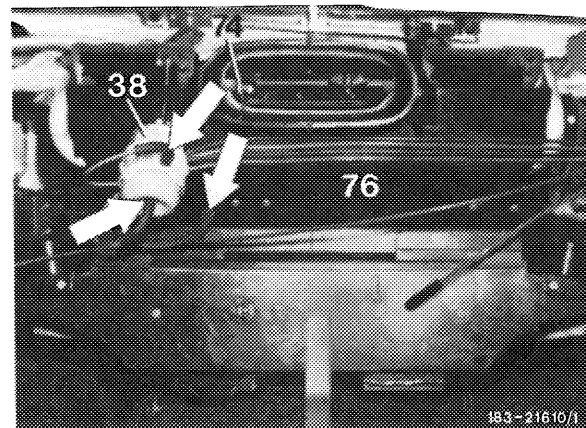
15 Plug vacuum line (refer to arrow) to vacuum element (40a).



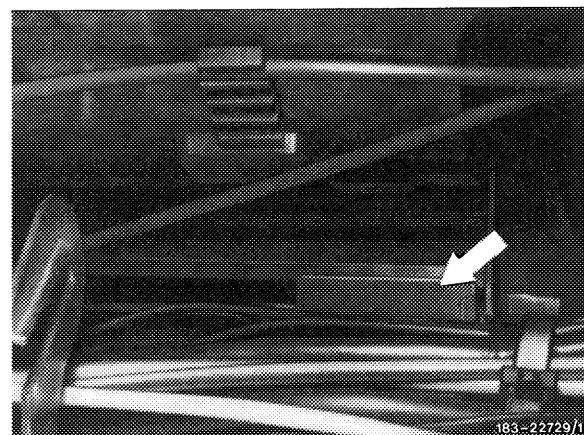
16 Mount air conditioning housing top (76) and scoop and fasten with clamps (arrow) to air conditioning cabinet.

17 Plug vacuum lines below (arrow) red-white and red-light blue in center on vacuum element (38), also plug vacuum line red-black on vacuum element (40a).

18 Mount connecting rod of vacuum element (40a) with clamp (74) and check vacuum element (40a) for function and leaks.



19 Mount air duct-center with four clamps (arrow) on heater box.

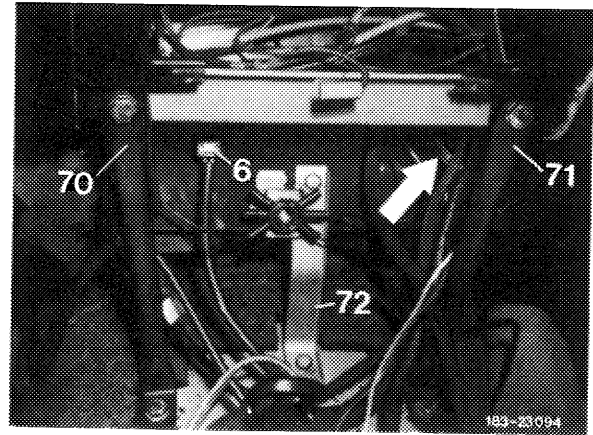


20 Install angle bracket (72) and supports (70 and 71).

21 Plug on vacuum line (arrow) red/yellow for vacuum element of legroom flaps.

22 Plug 2-pole coupler to temperature sensor (6).

23 Connect electric lines, terminal 58d, to line connector.



24 Install instrument panel (68–100), for this purpose keep defroster nozzle flaps closed by means of a wedge.

25 Install center console (68–200).

