

## 83-665 Removal and installation of vacuum elements

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### Data

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

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### Special tool

Tester for vacuum systems	116 589 25 21 00
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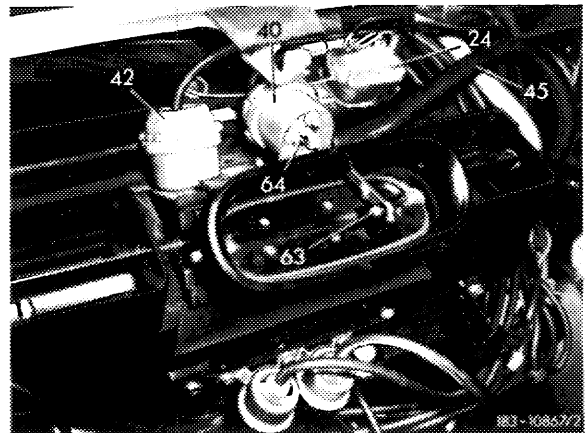
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### A. Vacuum element for center and defroster nozzle

#### Removal

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- 1 Remove instrument panel (68-100).
- 2 Pull vacuum lines from vacuum elements (40 or 42).

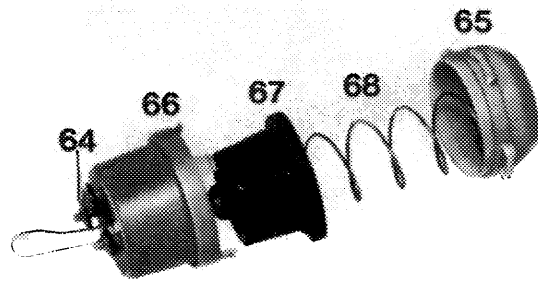


- 40 Vacuum element for center nozzle
- 42 Vacuum element for defroster nozzle
- 63 Clamp
- 65 Lock with rubber washer

- 3 Take off clamp (63) to remove vacuum element (40) for center nozzle and lift-off locks (64) with a screwdriver.

- 4 Check vacuum element (42) for damage.

5 If the housing top (65) or sleeve (67) is damaged, remove these parts from new vacuum element and install (with 1-stage vacuum element only).



**Vacuum element**

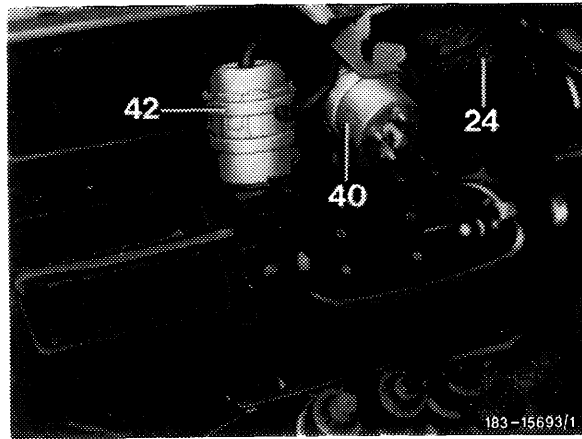
- 64 Lock and rubber washer
- 65 Housing upper half
- 66 Housing lower half
- 67 Sleeve
- 68 Spring

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6 If housing is damaged, remove lower half (66) or on 2-stage vacuum element (42) remove scoop for cooling air outlet-center, then remove vacuum element (42) according to Fig. 3.

**Attention !**

Always remove 2-stage vacuum element (42) as a complete unit in the event of operational trouble or leaks.



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**Installation**

7 Attach vacuum element (40 or 42) to holder or air conditioner cabinet by means of locks (64) and rubber washers.

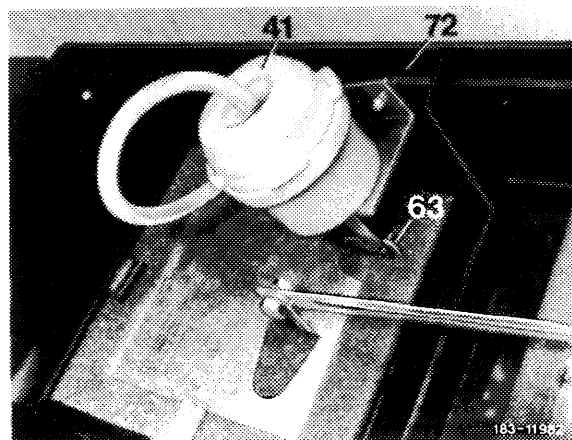
8 Plug-on vacuum line and mount actuating rod with clamp (63) or mount scoop to air conditioner cabinet, respectively. Check vacuum element (40 or 42) for operation and leaks.

9 Install instrument panel (68-100).

**B. Vacuum element for legroom flaps**

**Removal**

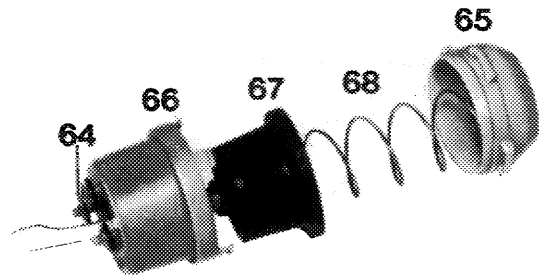
- 1 Remove air duct center (83-100).
- 2 Pull-off vacuum line and remove clamp (63).



- 41 Vacuum element for legroom flaps
- 63 Clamp
- 72 Air duct center

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3 Push off locks (64) by means of a screwdriver



- 64 Lock and rubber washer
- 65 Housing upper half
- 66 Housing lower half
- 67 Sleeve
- 68 Spring

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### Installation

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4 Attach vacuum element (41) to holder by means of rubber washer and locks (64).

5 Mount vacuum line and clamp (63).

6 Install air duct-center (83-100).

### C. Vacuum elements on blower housing

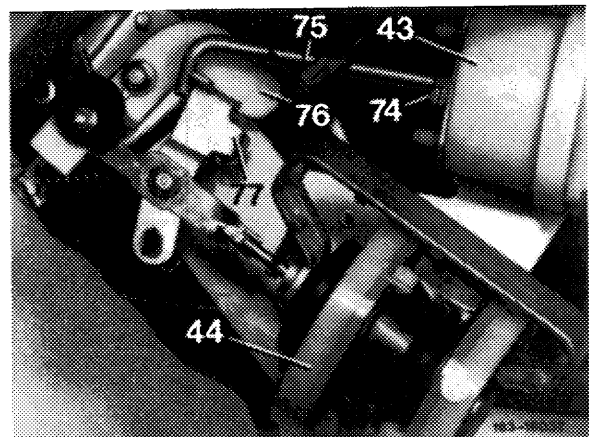
#### Removal

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1 Remove blower (83-120).

2 Remove locks (63 or 64) or screws (69).

- 43 Vacuum element for fresh air portion
- 44 Vacuum element for fresh air-recirculating air
- 75 Actuating rod
- 76 Lever with safety hook
- 77 Lever

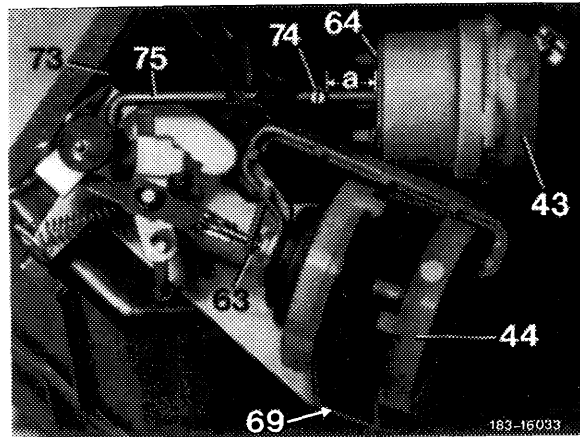


## Installation

3 Attach vacuum element (43 or 44) with locks (64) or acrows (69).

4 With actuating rod (75) of vacuum element (43) extended, set adjusting ring (74) to dimension „a“ (17.5 mm).

- 43 Vacuum element for fresh air portion
- 44 Vacuum element for fresh air-recirculating air
- 63 Lock
- 64 Lock with rubber washer
- 69 Screw
- 73 Blower housing
- 74 Adjusting ring
- 75 Actuating rod
- a = 17.5 mm



5 Connect tester to vacuum element (43) and evacuate, lever (76) should then engage with safety hook in lever (77) for vacuum element (44).

6 Install blower (83–120)

7 Check operation of automatic climate control.