Note

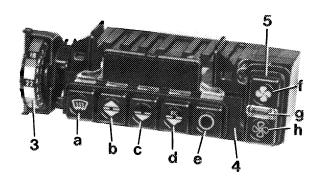
Ignition off: vacuum circuit I

Ignition on: vacuum circuit II to IV.

A. Testing vacuum circuit I

Switchover valves with red/green vacuum line.

1 Push function selection button "e". Switch off ignition.

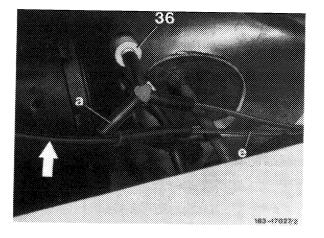


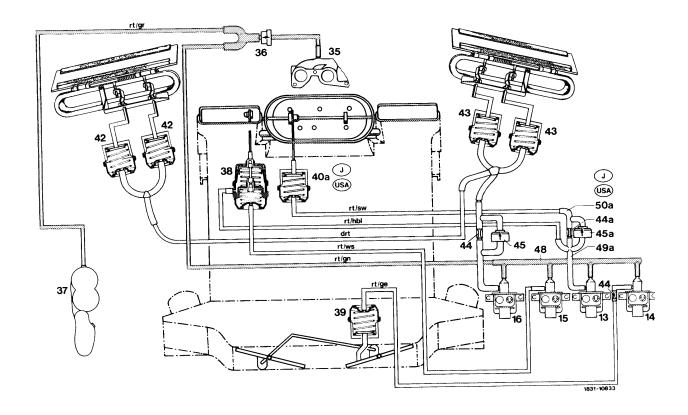
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- 2 Pull red/green vacuum line out of 3-point distributor (a), connect tester (refer to arrow), evacuate (approx. 600 mbar) and read pressure gauge.
- 3 If readout on pressure gauge changes, test switchover valves individually (83–620) and replace, if required.

Attention!

Tester remains connected to vacuum line red/green for testing vacuum circuits II to IV.





Vacuum circuit I Function selection "e", off (ignition off)

- Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (J) (USA) only)
- Switchover valve for legroom flaps
 Switchover valve for defroster nozzle flaps (long stroke)
 Switchover valve for vacuum elements of main air flaps
 Vacuum connection on intake manifold

- Check valve
- Vacuum reservoir

- 3/ Vacuum reservoir
 38 Vacuum element for defroster nozzle flaps (flaps "open")
 39 Vacuum element for legroom flaps (flaps "closed")
 40a Vacuum element for center nozzle flap (flap "closed")
 42 Vacuum element for main air flap left (flap "closed" with 20 % fresh air share)
 43 Vacuum element for main air flap right (flap "closed" with 20 % fresh air share)
 44 Throttle (prifice)
- Throttle (orifice)
- 45 Check valve 48 5-point distributor
- 49 4-point distributor
- 50 3-point distributor
- 40a, 44a, 45a, 49a, 50a J USA only

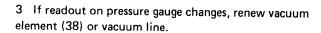
Color code of vacuum lines

hbl = light blue gn = green rt = red bl = blue drt = dark red sw = black ge = yellow ws = white gr = grey

B. Testing vacuum circuit II:

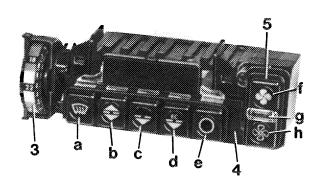
Vacuum element (38) for defroster nozzle flaps (short and long stroke) with vacuum line red/light blue and red/white, as well as for (J) (USA) vacuum element for center nozzle flap (40a) and vacuum line red/black.

- 1 Push function button "c" and engage temperature dial (3) "MIN". Switch on ignition.
- 2 Evacuate with tester (approx. 600 mbar) and read pressure gauge.

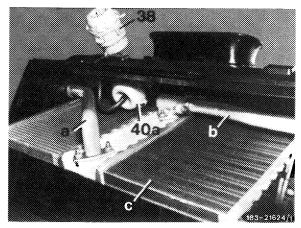


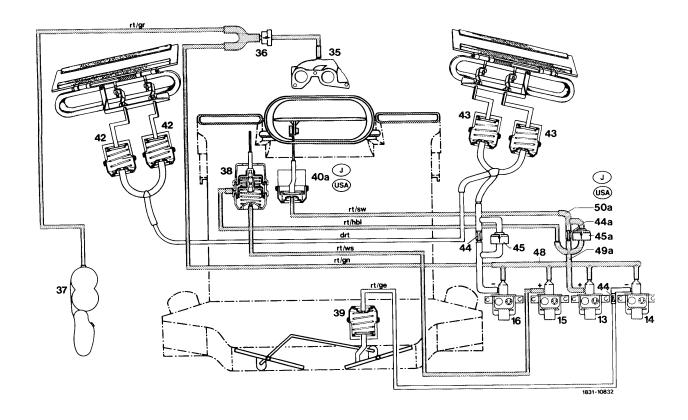
Attention!

On J was check vacuum element (38 and 40a) individually in the event of a leak in circuit II and renew vacuum element found leaking.



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Function selection "c", max. cooling — recirculating air ("MIN" engaged), ignition on

- Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (J USA only)
- Switchover valve for legroom flaps
- Switchover valve for defroster nozzle flaps (long stroke)
- Switchover valve for vacuum elements of main air flaps
- Vacuum connection on intake manifold 35
- 36 37
- Check valve Vacuum reservoir

- Vacuum element for defroster nozzle flaps (flaps "closed")
 Vacuum element for legroom flaps (flaps "closed")
 Vacuum element for center nozzle flap (flap "open")
 Vacuum element for main air flap left (flap "closed" with 20 % fresh air share)
 Vacuum element for main air flap right (flap "closed" with 20 % fresh air share) 43
- Throttle (orifice)
- 45 Check valve
- 48 5-point distributor
- 49 4-point distributor 50 3-point distributor
- 40a, 44a, 45a, 49a, 50a J USA only

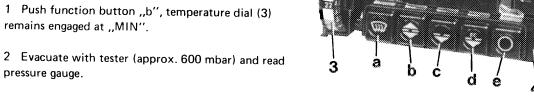
Color code of vacuum lines

bl = blue ge = yellow gn = green rt = red hbl = light blue drt = dark red sw = black gr = grey ws = white

C. Testing vacuum circuit III.

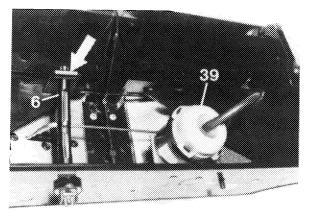
Vacuum element (39) for legroom flap with red/yellow vacuum line.

- remains engaged at "MIN".
- pressure gauge.

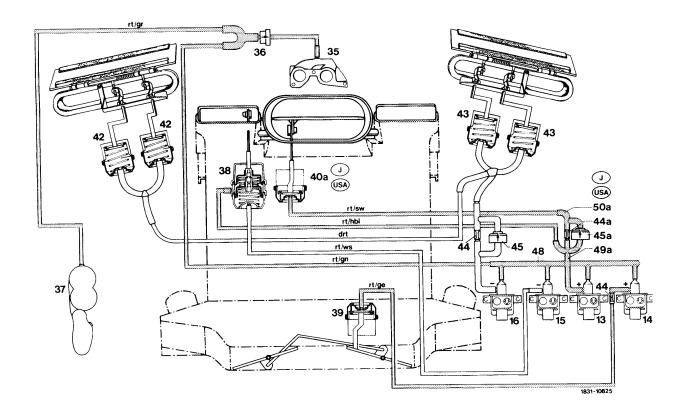


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3 If readout on pressure gauge changes, check red/ yellow vacuum line for leaks or renew vacuum element (39).



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Function selection "b", max. cooling ("MIN" engaged), ignition on

- Switchover valve for legroom flaps
- Switchover valve for defroster nozzle flaps (long stroke) Switchover valve for vacuum elements of main air flaps Vacuum connection on intake manifold 15
- 16 35
- 36 37 Check valve
- Vacuum reservoir

- 37 Vacuum reservoir
 38 Vacuum element for defroster nozzle flaps (flaps "open")
 39 Vacuum element for legroom flaps (flaps "open")
 40a Vacuum element for center nozzle flap (flap "open")
 42 Vacuum element for main air flap left (flap "closed" with 20 % fresh air share)
 43 Vacuum element for main air flap right (flap "closed" with 20 % fresh air share)
 44 Thoutle (orifice)
- Throttle (orifice)
- 43 44 45
- Check valve 5-point distributor
- 4-point distributor
- 50 3-point distributor
- 40a, 44a, 45a, 49a, 50a J (USA) only

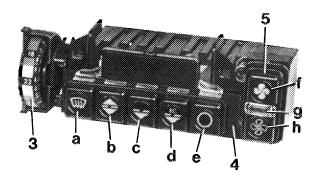
Color code of vacuum lines

hbl = light blue drt = dark red gn = green rt = red bl = blue ge = yellow gr = grey ws = white sw = black

D. Testing vacuum circuit IV.

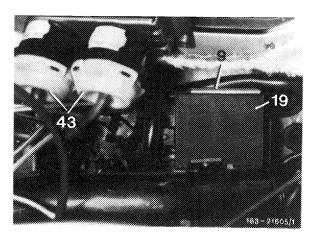
Test vacuum elements (42) and (43) for main air flaps with dark red vacuum line.

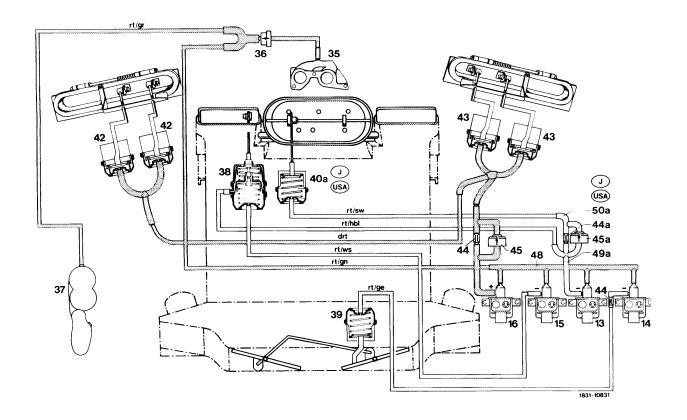
- 1 Push function button "a".
- 2 Evacuate with tester (approx. 600 mbar) and read pressure gauge.



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3 If readout on pressure gauge changes, test vacuum element (42) and (43) individually as well as dark red vacuum line and renew, if required.





Vacuum circuit IV Function selection "a", defrosting, ignition on

- Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (J) (USA) only)
- Switchover valve for legroom flaps
 Switchover valve for defroster nozzle flaps (long stroke)
 Switchover valve for vacuum elements of main air flaps
 Vacuum connection on intake manifold
- 15 16
- Check valve
- Vacuum reservoir
- Vacuum element for defroster nozzle flaps (flaps "open")
 Vacuum element for legroom flaps (flaps "closed")
 Vacuum element for center nozzle flap (flap "closed")
 Vacuum element for main air flap left (flap "open")

- 43 44 Vacuum element for main air flap right (flap "open") Throttle (orifice)

- Check valve 5-point distributor
- 49 4-point distributor
- 50 3-point distributor 40a, 44a, 45a, 49a, 50a J (USA) only

Color code of vacuum lines

hbl = light blue drt = dark red sw = black bl = blue ge = yellow gn = green rt = red gr = grey ws = white