

Vacuum function diagram 1, automatic climate control Function selection ,,a", defrosting

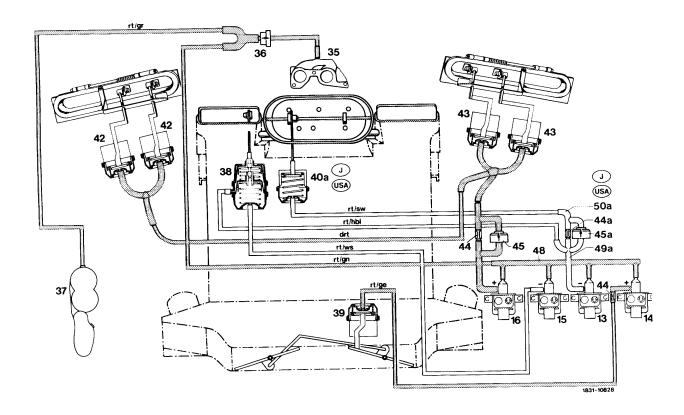
- Switchover valve for legroom flaps
 Switchover valve for defroster nozzle flaps (long stroke)
 Switchover valve for vacuum elements of main air flaps
 Vacuum connection on intake manifold
- 35
- 36
- Check valve Vacuum reservoir
- Vacuum reservoir
 Vacuum element for defroster nozzle flaps (flaps "open")
 Vacuum element for legroom flaps (flaps "closed")
 Vacuum element for center nozzle flap (flap "closed")
 Vacuum element for main air flap left (flap "open")
 Vacuum element for main air flap right (flap "open")
 Vacuum element for main air flap right (flap "open")
 Charle main

- 43
- 45 Check valve
- 48 5-point distributor

- 49 4-point distributor 50 3-point distributor 40a, 44a, 45a, 49a, 50a, J (ISA) only

Color code of vacuum lines

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



Vacuum function diagram 2, automatic climate control Function selection "b" heating

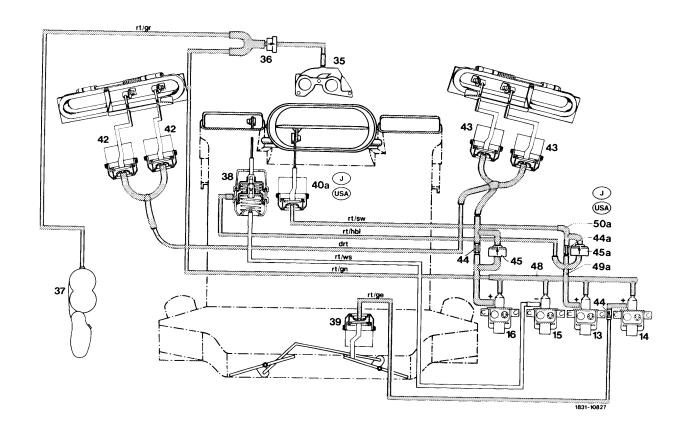
- 13 Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (Jusa only)
- Switchover valve for legroom flaps Switchover valve for defroster nozzle flaps (long stroke)
- Switchover valve for vaccum elements of main air flaps Vacuum connection on intake manifold 16
- Check valve
- Uneck valve
 Vacuum reservoir
 Vacuum element for defroster nozzle flaps (flaps "open")
 Vacuum element for legroom flaps (flaps "open")
 Vacuum element for center nozzle flap (flap "closed")
 Vacuum element for main air flap left (flap "open")
 Vacuum element for main air flap right (flap "open")
 Throttle (orifice)
 Chock valve

- Check valve
- 5-point distributor 4-point distributor 3-point distributor

- 40a, 44a, 45a, 49a, 50a J USA only

Color code of vacuum lines

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



Vacuum function diagram 2a, automatic climate control Function selection "b", cooling - fresh air

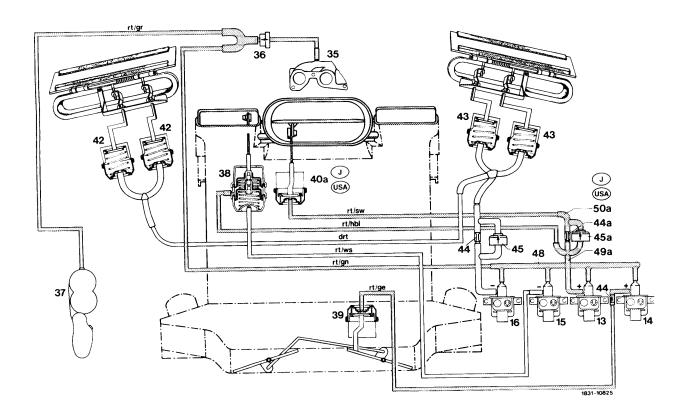
- Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (\bigcirc (usa) only)
- Switchover valve for legroom flaps
 Switchover valve for defroster nozzle flaps (long stroke)
 Switchover valve for vacuum elements of main air flaps 15
- 16 35
- Vacuum connection on intake manifold
- 36 Check valve
- Vacuum reservoir
- Vacuum reservoir
 Vacuum element for defroster nozzle flaps (flaps "open")
 Vacuum element for legroom flaps (flaps "open")
 Vacuum element for center nozzle flap (flap "open")
 Vacuum element for main air flap left (flap "open")
 Vacuum element for main air flap right (flap "open")
 Throttle (orifice)
- 39
- 40a

- 44 45 Throttle (orifice)
- Check valve
- 48 5-point distributor 4-point distributor 3-point distributor

- 40a, 44a, 45a, 49a, 50a J (USA) only

Color code of vacuum lines

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



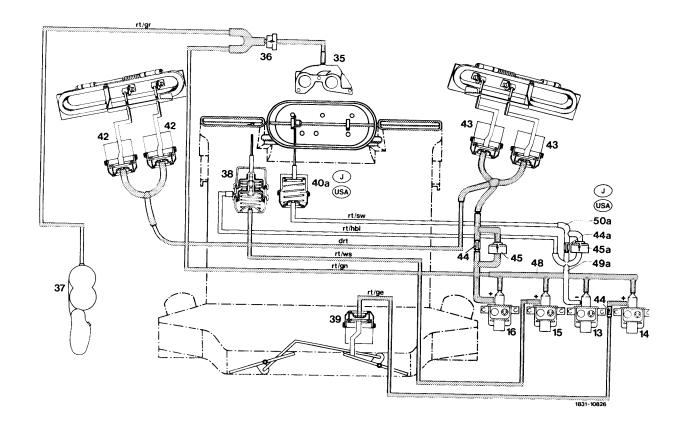
Vacuum function diagram 2b, automatic climate control Function selection ,,b", max. cooling — recirculating air (MIN engaged)

- 13 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 35
- 36 37 38 Check valve
- Vacuum reservoir

- 3/ 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 flaps (flaps "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 Theytle (orifice)
- Throttle (orifice)
- 45 48
- Check valve 5-point distributor
- 49 4-point distributor
- 3-point distributor
- 40a, 44a, 45a, 50a J (usa) only

Color code of vacuum lines

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



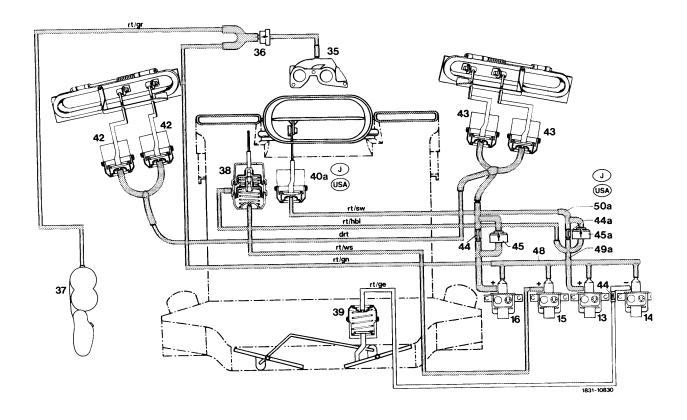
Vacuum function diagram 3, automatic climate control Function selection ,,c $^{\prime\prime}$, heating

- Switchover valve for defroster nozzle flap (short stroke) and center nozzle flap (USA) only)
- Switchover valve for legroom flaps
 Switchover valve for defroster nozzle flaps (long stroke)
 Switchover valve for vacuum elements of main air flaps
- 16
- Vacuum connection on intake manifold
- 36 Check valve
- 37 38 Vacuum reservoir
- 37 Vacuum reservoir
 38 Vacuum element for defroster nozzle flaps (flaps "closed" with leak air share)
 39 Vacuum element for legroom flaps (flaps "open")
 40a Vacuum element for center nozzle flap (flap "closed")
 42 Vacuum element for main air flap left (flap "open")
 43 Vacuum element for main air flap right (flap "open")
 44 Throttle (orifice)

- Throttle (orifice) Check valve
- 45
- 48 5-point distributor 49 4-point distributor
- 50 3-point distributor
- 40a, 44a, 45a, 49a, 50a J (USA) only

Color code for vacuum lines

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



Vacuum function diagram 3a, automatic climate control Function selection ,,c", cooling — fresh air

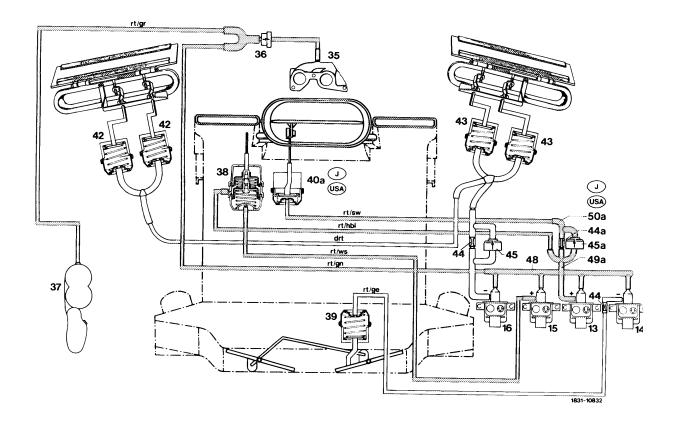
- Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (J) (J) (I) (
- Switchover valve for legroom flaps Switchover valve for defroster nozzle flaps (long stroke) Switchover valve for vacuum elements of main air flaps 15
- Vacuum connection on intake manifold
- Check valve Vacuum reservoir
- 37 Vacuum reservoir
 38 Vacuum element for defroster nozzle flaps (flaps "closed")
 39 Vacuum element for legroom flaps (flaps "closed")
 40a Vacuum element for center nozzle flap (flap "open")
 42 Vacuum element for main air flap left (flap "open")
 43 Vacuum element for main air flap right (flap "open")
 44 Thetale (crifice)

- 42 43 44
- Throttle (orifice)
- 45 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 gn = green rt = red bi = blue ge = yellow sw = black gr = grey ws = white



Vacuum function diagram 3b, automatic climate control Function selection "c", max. cooling — recirculating air (MIN engaged)

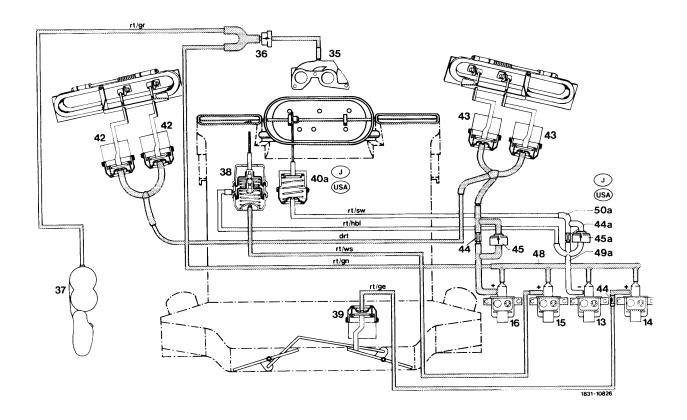
- 13 Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (J) (USA) only)
- Switchover valve for legroom flaps
- 15 16 Switchover valve for defroster nozzle flaps (long stroke)
- Switchover valve for vacuum elements of main air flaps
- Vacuum connection on intake manifold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

- 37 Vacuum reservoir
 38 Vacuum element for defroster nozzle flaps (flaps "closed")
 39 Vacuum element for legroom flaps (flaps "closed")
 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 Throttle (orifice)
- 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

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Vacuum function diagram 4, automatic climate control Function selection ,,d $^{\prime\prime}$, heating — economy

- 13
- Switchover valve for legroom flaps
- Switchover valve for legroom Haps
 Switchover valve for defroster nozzle flaps (long stroke)
 Switchover valve for vacuum elements of main air flaps
 Vacuum connection on intake manifold
 Check valve 16
- 35 36
- Vacuum reservoir
- vacuum element for defroster nozzle flaps (flaps "closed" with leak air share)

 Vacuum element for legroom flaps (flaps "open")

 Vacuum element for center nozzle flap (flap "closed")

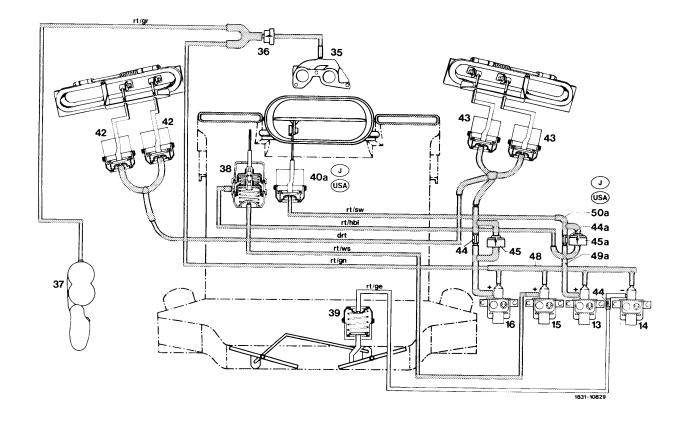
 Vacuum element for main air flap left (flap "open")

- Vacuum element for main air flap right (flap "open") 43
- Throttle (orifice)
- Check valve
- 5-point distributor 48

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

Color code of vacuum lines

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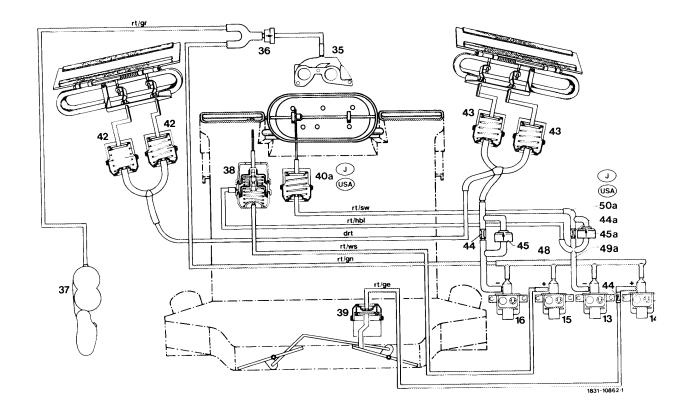
Vacuum function diagram 4a, automatic climate control Function selection ,,d $^{\prime\prime}$, venting — economy

- 13 Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (J) (USA) only)
- Switchover valve for legroom flaps 15
- 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 38 Check valve
- Vacuum reservoir
- 37 Vacuum reservoir
 38 Vacuum element for defroster nozzle flaps (flaps "closed")
 39 Vacuum element for legroom flaps (flaps "closed")
 40a Vacuum element for center nozzle flap (flap "open")
 42 Vacuum element for main air flap left (flap "open")
 43 Vacuum element for main air flap right (flap "open")
 44 Throttel (orifice)

- Throttel (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

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Vacuum function diagram 5, automatic climate control Function selection "e", off

- Switchover valve for defroster nozzle flaps (short stroke) and center nozzle flap (Jusa only)

- Switchover valve for legroom flaps Switchover valve for defroster nozzle flaps (long stroke) Switchover valve for vaccum elements of main air flaps 15 16
- Vacuum connection on intake manifold
- 36 37 38 39 Check valve

- Uneck valve
 Vacuum reservoir
 Vacuum element for defroster nozzle flaps (flaps "closed" with leak air share)
 Vacuum element for legroom flaps (flaps "open")
 Vacuum element for center nozzle flap (flap "closed")
 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)
 Throttle (orifice)
 Vacuum element for main air flap right (flap "closed" with 20 % fresh air share)
- 43 44 45
- 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 gn = green rt = red bl = blue ge = yellow gr = grey sw = black ws = white