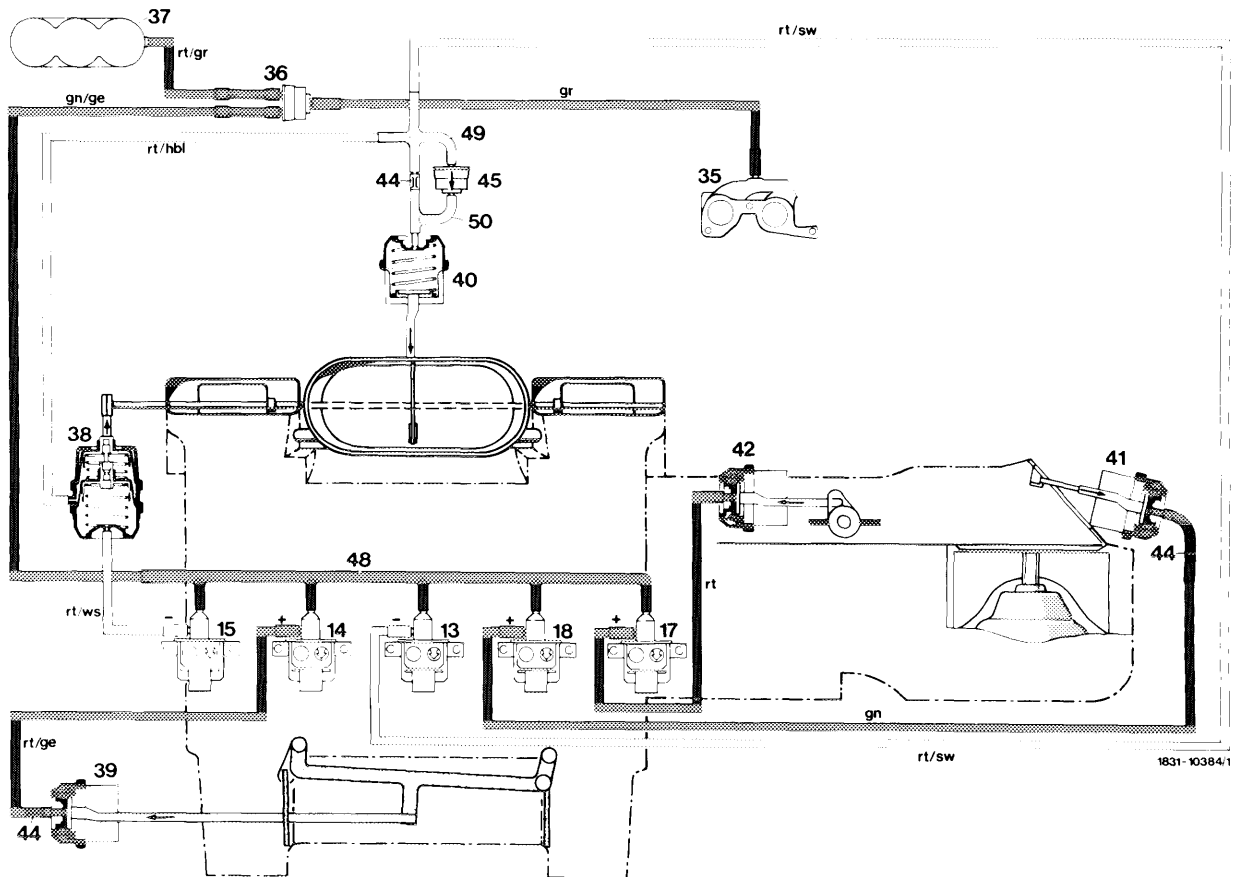


Vacuum function diagram 1 automatic climate control

Function selection "a" (defrosting)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "open")
- 39 Vacuum element for legroom flaps (flap "closed")
- 40 Vacuum element for center nozzle flap (flap "closed")
- 41 Vacuum element for fresh air-recirculating air flap (position "fresh air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of vacuum lines
 ge = yellow
 gn = green
 gr = gray
 rt = red
 ws = white
 hbl = light blue
 sw = black

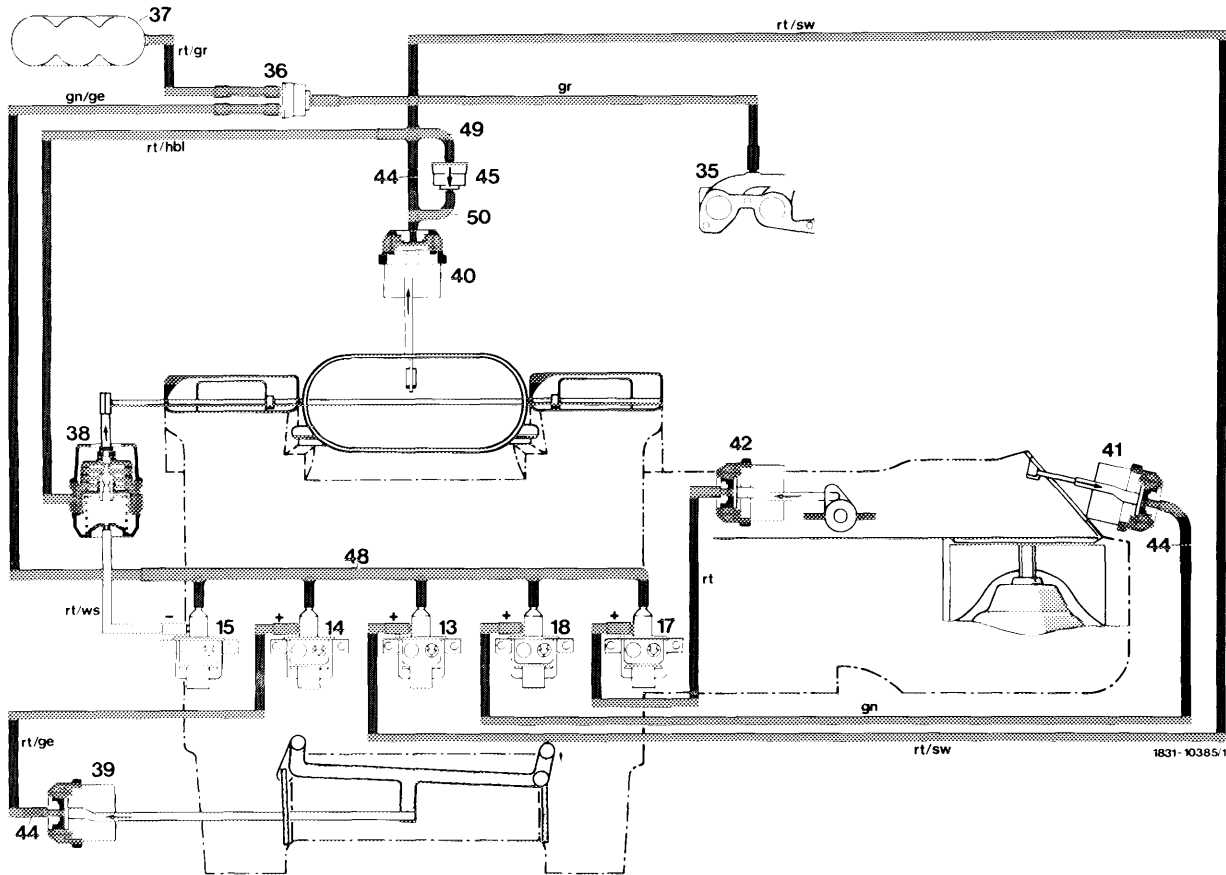


Vacuum function diagram 2 automatic climate control

Function selection "b" (heating)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "open")
- 39 Vacuum element for legroom flaps (flap "open")
- 40 Vacuum element for center nozzle flap (flap "closed")
- 41 Vacuum element for fresh air-recirculating air flap (position "fresh air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of
vacuum lines
ge = yellow
gn = green
gr = gray
rt = red
ws = white
hbl = light blue
sw = black



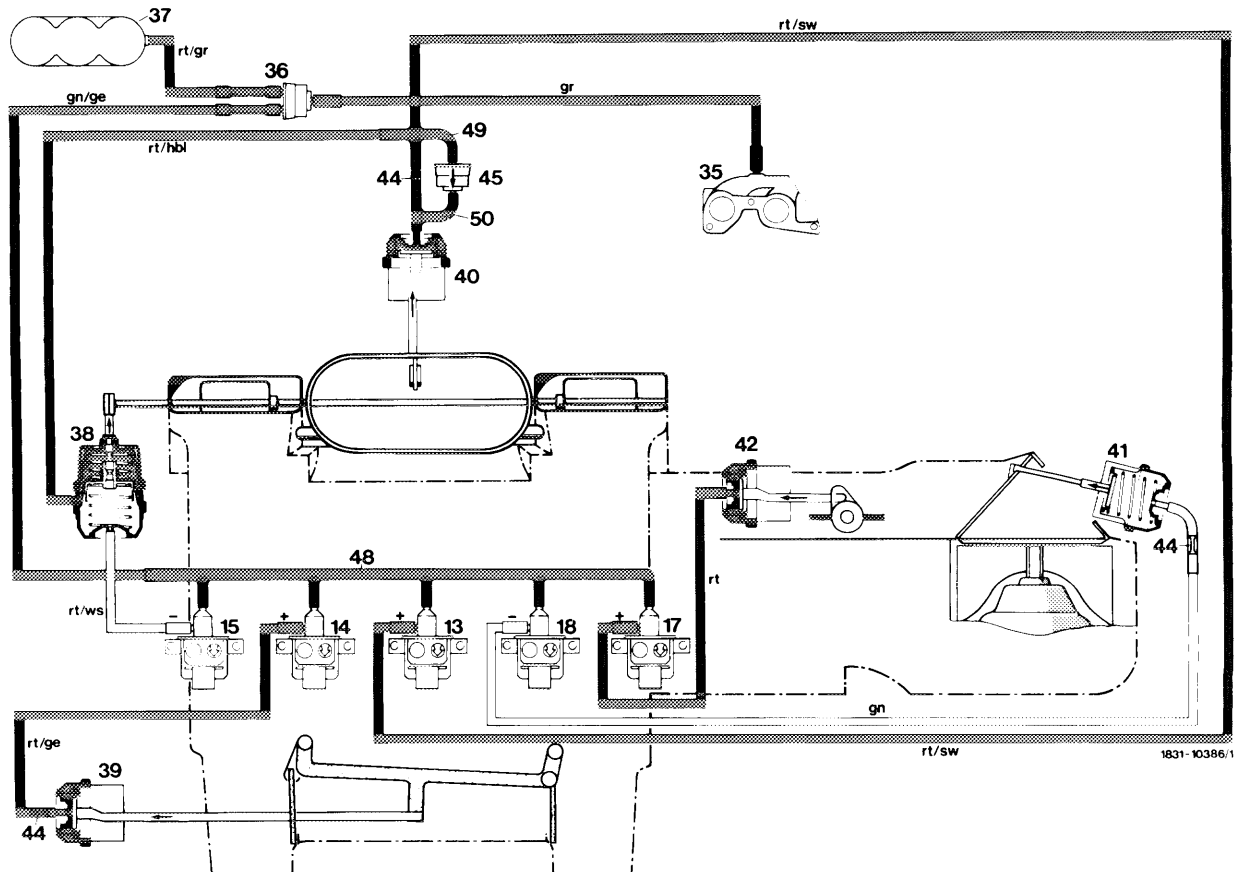
Vacuum function diagram 2a automatic climate control

Function selection "b" (cooling – fresh air)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "open")
- 39 Vacuum element for legroom flaps (flap "open")
- 40 Vacuum element for center nozzle flap (flap "open")
- 41 Vacuum element for fresh air-recirculating air flap (position "fresh air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of

- vacuum lines
- ge = yellow
- gn = green
- gr = gray
- rt = red
- ws = white
- hbl = light blue
- sw = black



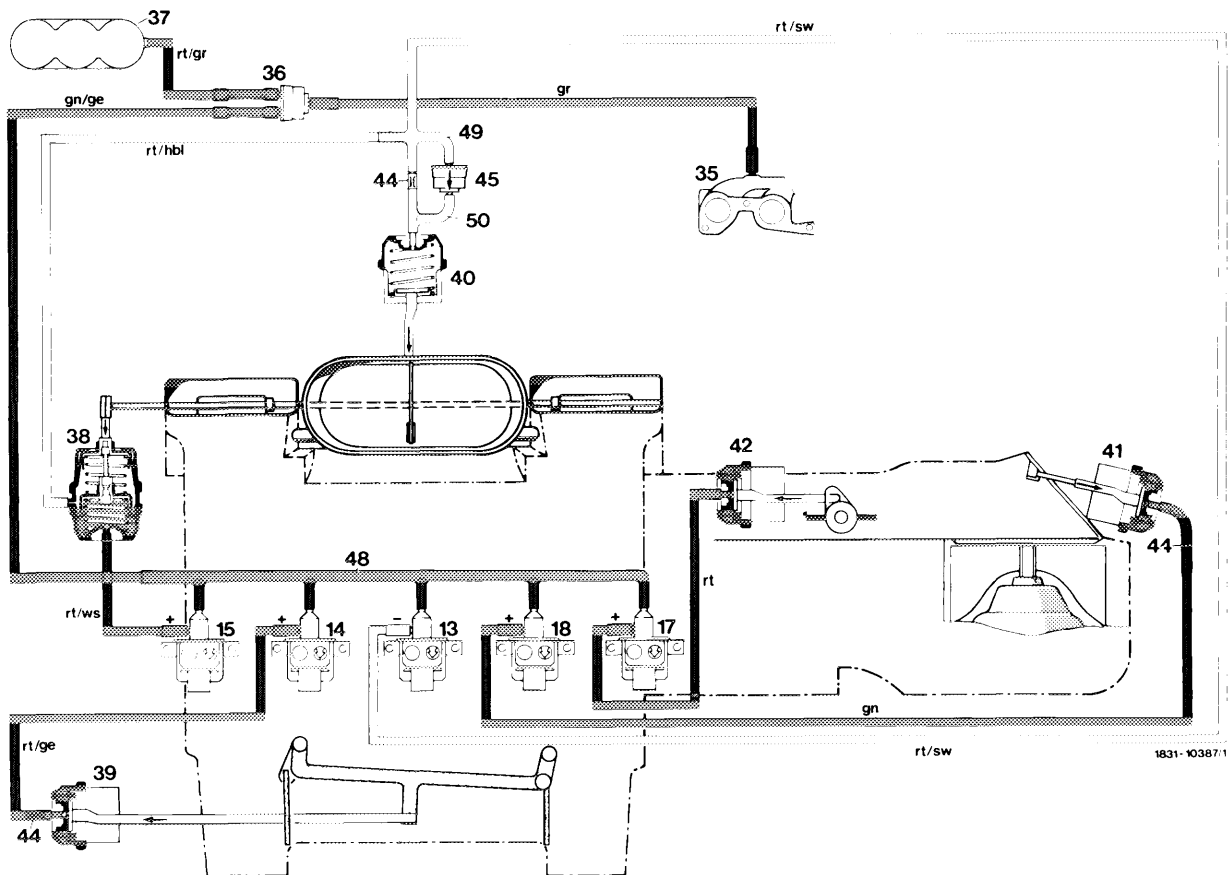
Vacuum function diagram 2b automatic climate control

Function selection "b" (cooling – recirculating air)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "open")
- 39 Vacuum element for legroom flaps (flap "open")
- 40 Vacuum element for center nozzle flap (flap "open")
- 41 Vacuum element for fresh air-recirculating air flap (position "recirculating air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of vacuum lines

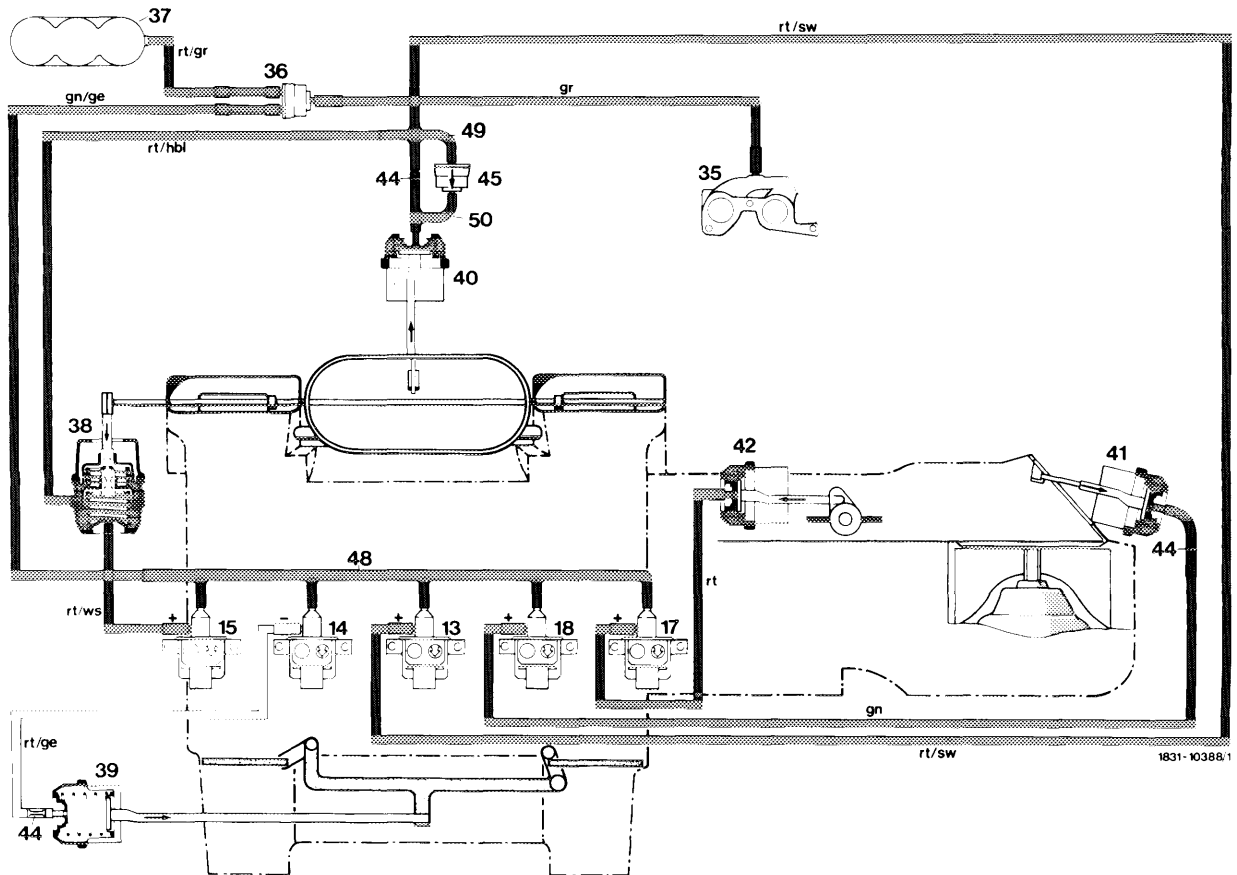
- ge = yellow
- gn = green
- gr = gray
- rt = red
- ws = white
- hbl = light blue
- sw = black



Vacuum function diagram 3 automatic climate control
Function selection "c" (heating)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "closed", with leak air share)
- 39 Vacuum element for legroom flaps (flaps "open")
- 40 Vacuum element for center nozzle flap (flap "closed")
- 41 Vacuum element for fresh air-recirculating air flap (position "fresh air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of
vacuum lines
ge = yellow
gn = green
gr = gray
rt = red
ws = white
hbl = light blue
sw = black

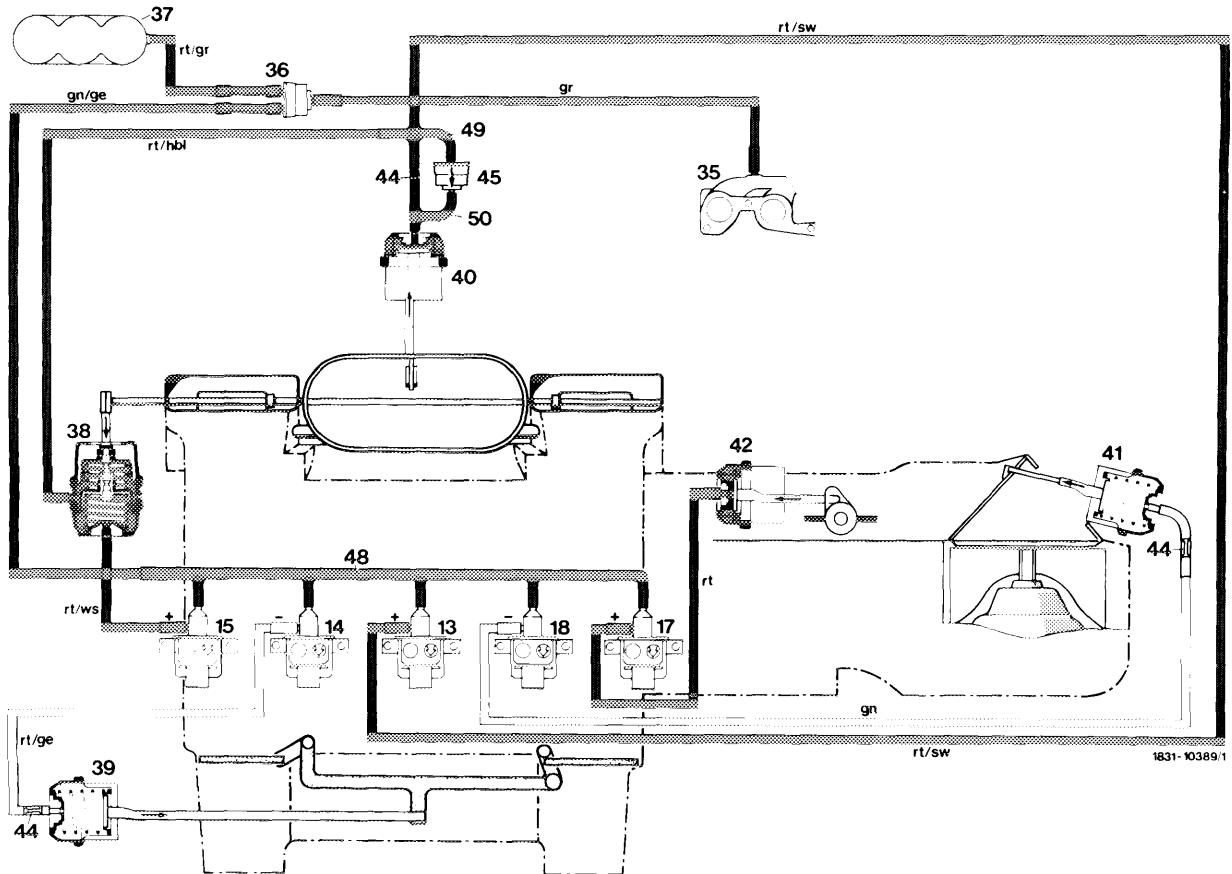


Vacuum function diagram 3a automatic climate control

Function selection "c" (cooling – fresh air)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flaps
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "closed")
- 39 Vacuum element for legroom flaps (flaps "closed")
- 40 Vacuum element for center nozzle flap (flap "open")
- 41 Vacuum element for fresh air-recirculating air flap (position "fresh air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of vacuum lines
 ge = yellow
 gn = green
 gr = gray
 rt = red
 ws = white
 hbl = light blue
 sw = black



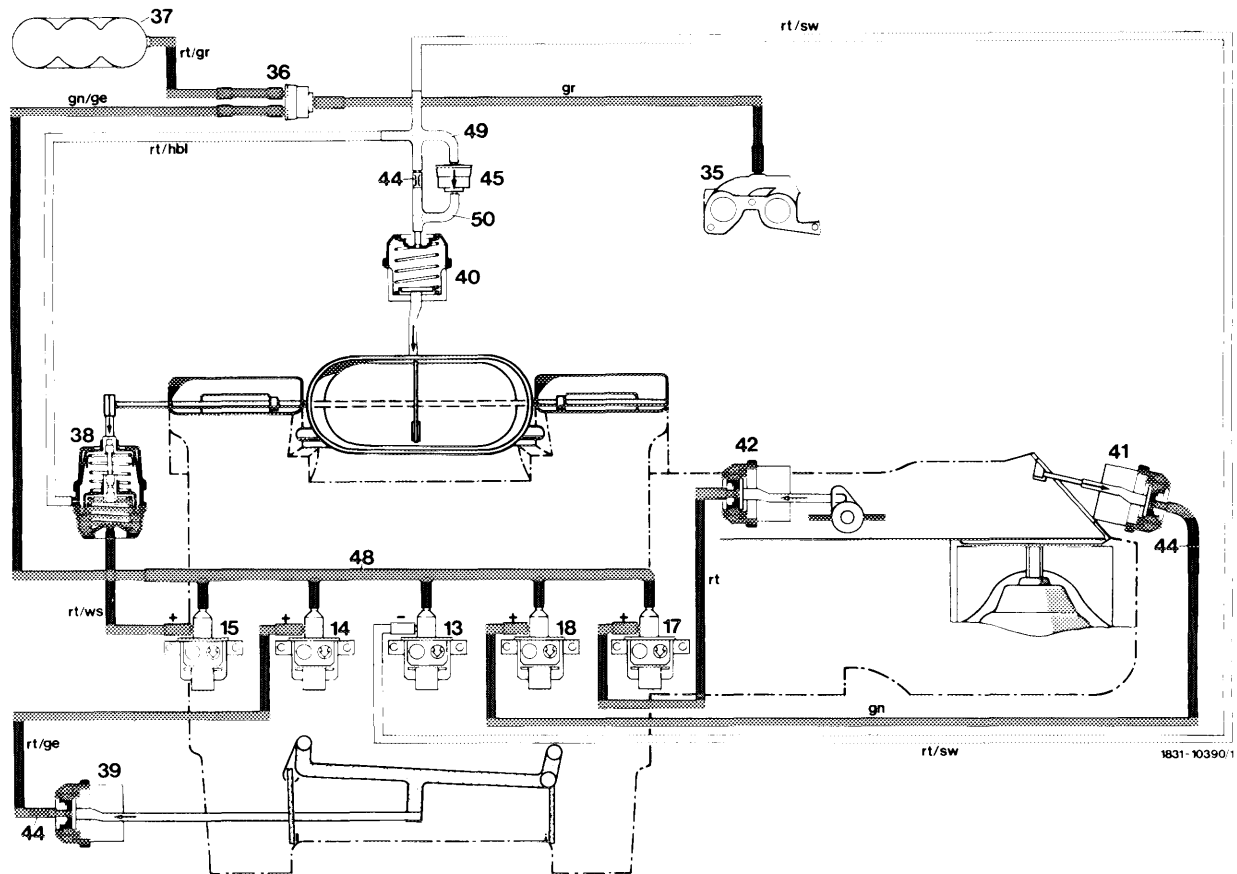
Vacuum function diagram 3b automatic climate control

Function selection "c" (max. cooling – recirculating air)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "closed")
- 39 Vacuum element for legroom flaps (flaps "closed")
- 40 Vacuum element for center nozzle flap (flap "open")
- 41 Vacuum element for fresh air-recirculating air flap (position "recirculating air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of

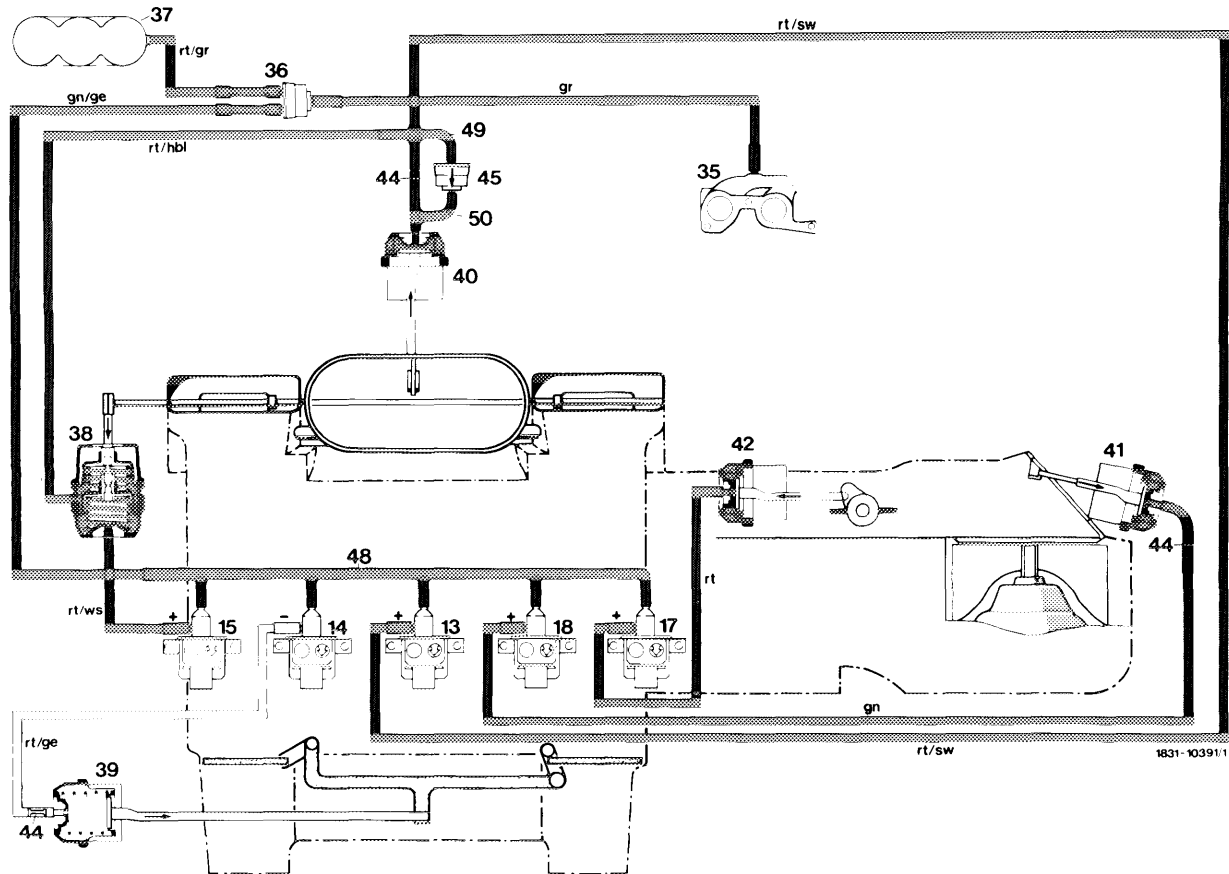
- vacuum lines
- ge = yellow
- gn = green
- gr = gray
- rt = red
- ws = white
- hbl = light blue
- sw = black



Vacuum function diagram 4 automatic climate control
Function selection "d" (heating – economy)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "closed", with leak air share)
- 39 Vacuum element for legroom flaps (flaps "open")
- 40 Vacuum element for center nozzle flap (flap "closed")
- 41 Vacuum element for fresh air-recirculating air flap (position "fresh air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

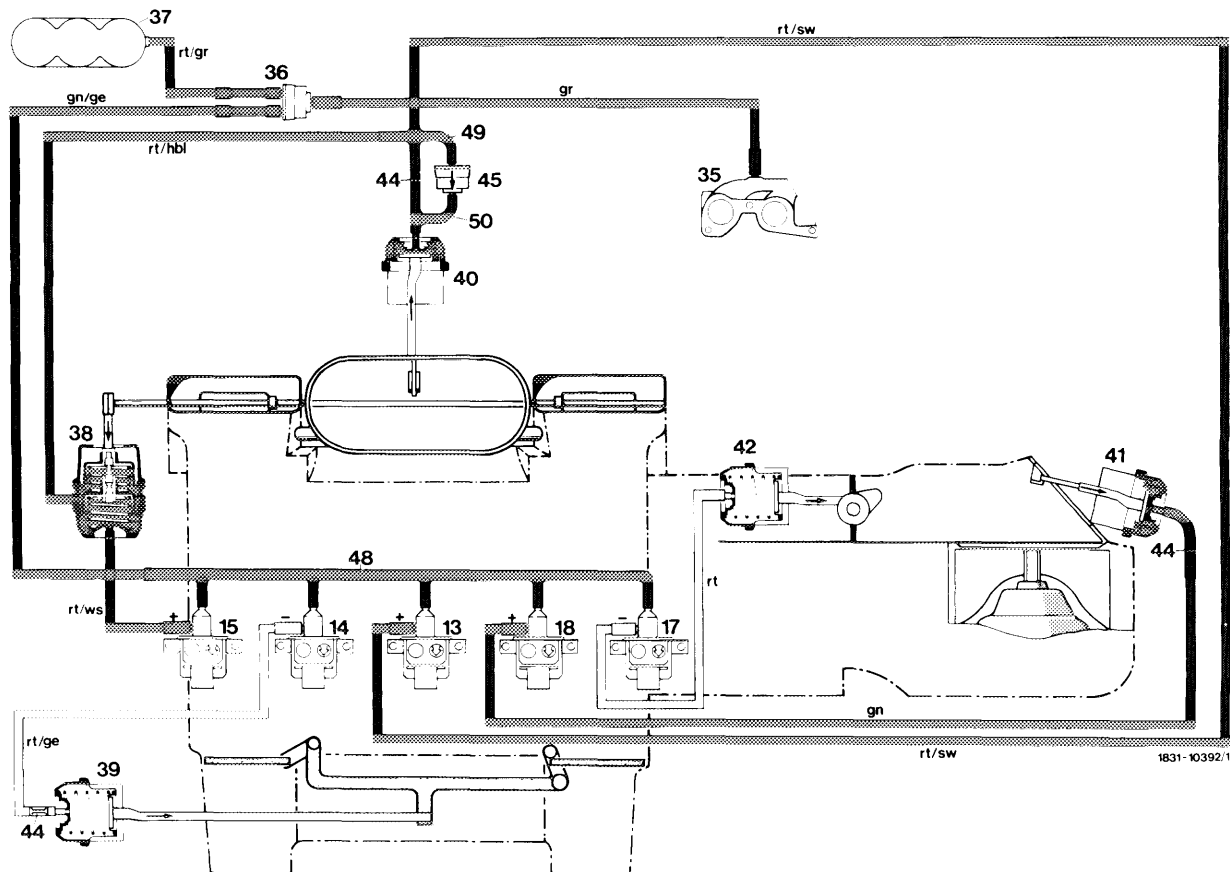
Color code of vacuum lines
ge = yellow
gn = green
gr = gray
rt = red
ws = white
hbl = light blue
sw = black



Vacuum function diagram 4a automatic climate control
Function selection "d" (cooling - economy)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "closed")
- 39 Vacuum element for legroom flaps (flaps "closed")
- 40 Vacuum element for center nozzle flap (flap "open")
- 41 Vacuum element for fresh air-recirculating air flap (position "fresh air")
- 42 Vacuum element for main air flap (flap "open")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of
vacuum lines
ge = yellow
gn = green
gr = gray
rt = red
ws = white
hbl = light blue
sw = black



Vacuum function diagram 5 automatic climate control

Function selection "e" (off – ignition on)

- 13 Switchover valve for center nozzle flap
- 14 Switchover valve for legroom flaps
- 15 Switchover valve for defroster nozzle flaps
- 17 Switchover valve for main air flap
- 18 Switchover valve for fresh air-recirculating air flap
- 35 Vacuum connection on intake manifold
- 36 Check valve
- 37 Vacuum reservoir
- 38 2-stage vacuum element for defroster nozzle flaps (flaps "closed")
- 39 Vacuum element for legroom flaps (flaps "closed")
- 40 Vacuum element for center nozzle flap (flap "open")
- 41 Vacuum element for fresh air-recirculating air flap (position "fresh air")
- 42 Vacuum element for main air flap (flap "closed")
- 44 Throttle (orifice)
- 45 Check valve (arrow = flow direction)
- 48 6-point distributor
- 49 4-point distributor
- 50 3-point distributor

Color code of vacuum lines
 ge = yellow
 gn = green
 gr = gray
 rt = red
 ws = white
 hbl = light blue
 sw = black