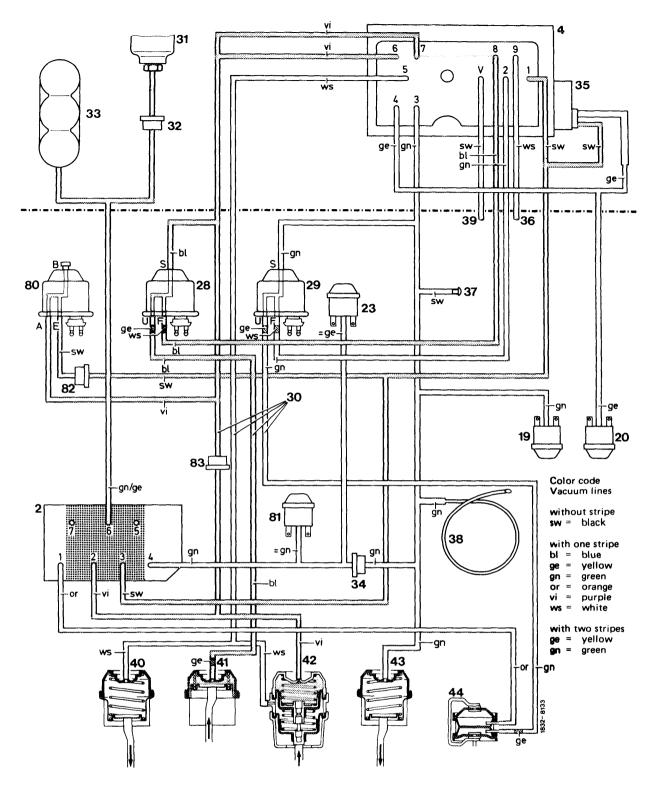


Function diagram 1 Pushbutton switch at "OFF", "ON/OFF" switch refrigerant compressor at "ON"

- 2 Pushbutton switch
- Regulating valve
- Vacuum switch (main switch, green)
- Vacuum switch (refrigerant
- vacuum switch (for refrigerant compressor, yellow)
 Vacuum switch (for refrigerant compressor, at "BI-LEVEL" only)
 Switchover valve (legroom flaps) 23
- Switchover valve (fresh airrecirculating air changeover switch)
- Vacuum lines
- Vacuum connection at intake pipe
- Check valve

- Vacuum reservoir
- Check valve
- Temperature switch
- Vent line for legroom flaps Vacuum connection for tester
- 38 Specified leak point
- Vent line for regulating valve
- Vacuum element for center nozzles (flap "open")
- Vacuum element for legroom flaps (flaps "closed")
- 2-stage vacuum element for defroster nozzles (flaps "closed")
- 43 Vacuum element for fresh air portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh airvacuum element for fresh air-recirculating air changeover switch (flap "closed" no fresh air supply) Switchover valve "BI-LEVEL" (at "DEF" only)
- Vacuum switch (at "BI-LEVEL" 81
- only) Check valve Check valve

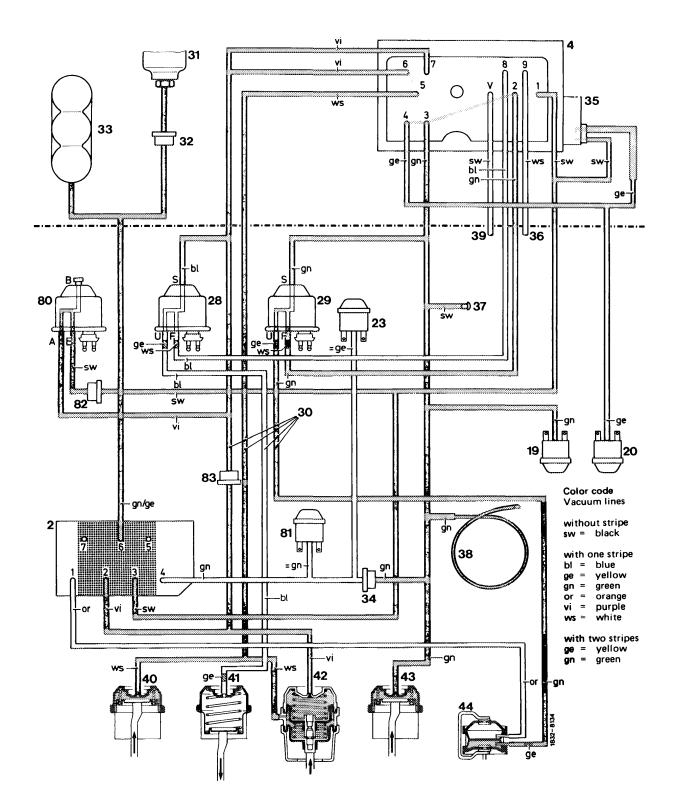


Function diagram 1a

Pushbutton switch at "AUTO-LO" or 'AUTO-HI", "ON/OFF" switch refrigerant compressor at "ON" Regulating valve in position "heating", coolant temperature < 104 $^{\circ}\text{F}$ (< 40 $^{\circ}\text{C}$)

- Pushbutton switch
- Regulating valve
 Vacuum switch (main switch, green)
- Vacuum switch (refrigerant compressor, yellow)
- 23 Vaccum switch (for refrigerant compressor, at "BI-LEVEL" only)
 28 Switchover valve (legroom flaps)
- Switchover valve (fresh air-recirculating air changeover switch)
- Vacuum lines
- Vacuum connection at intake pipe
- Check valve

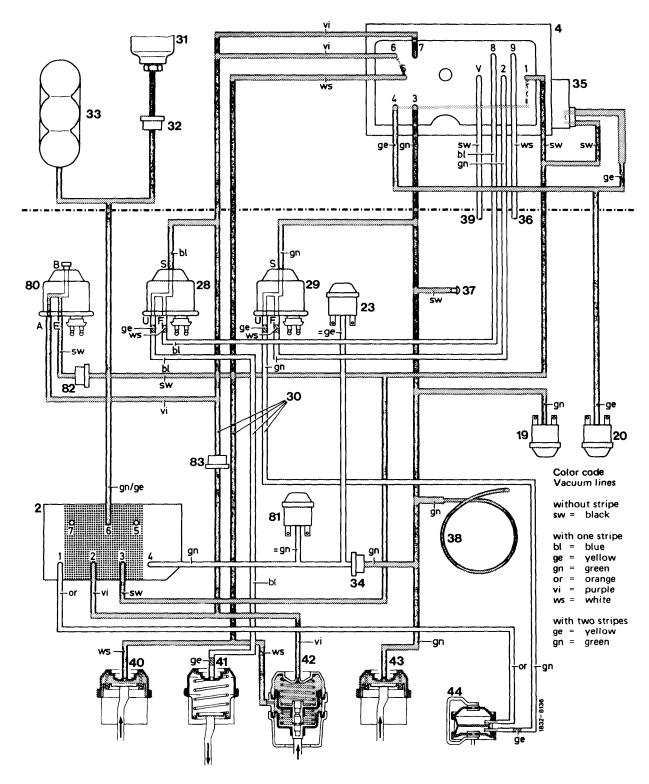
- 33 Vacuum reservoir
- Check valve
- Temperature switch 35 Vent line for legroom flaps 36
- Vacuum connection for tester
- Specified leak point
- Vent line for regulating valve
- 40 Vacuum element for center nozzles (flap "closed")
- Vacuum element for legroom flaps (flaps "open")
- 2-stage vacuum element for defroster nozzles (flaps "closed" 42 with leak air portion)
- 43 Vacuum element for fresh air portion of fresh air-recirculating air changeover switch Vacuum element for fresh air-
- vacuum element for tresh air-recirculating air changeover switch (flap "closed" no fresh air supply) Switchover valve "BI-LEVEL" (at "DEF" only)
- Vacuum switch (at "BI-LEVEL" only)
- Check valve
- Check valve



Function diagram 2

Pushbutton switch at "AUTO-LO" or "AUTO-HI", "ON/OFF" switch refrigerant compressor at "ON" Regulating valve in position "cooling" (fresh air), coolant temperature > 104 $^{\circ}$ F (>40 $^{\circ}$ C)

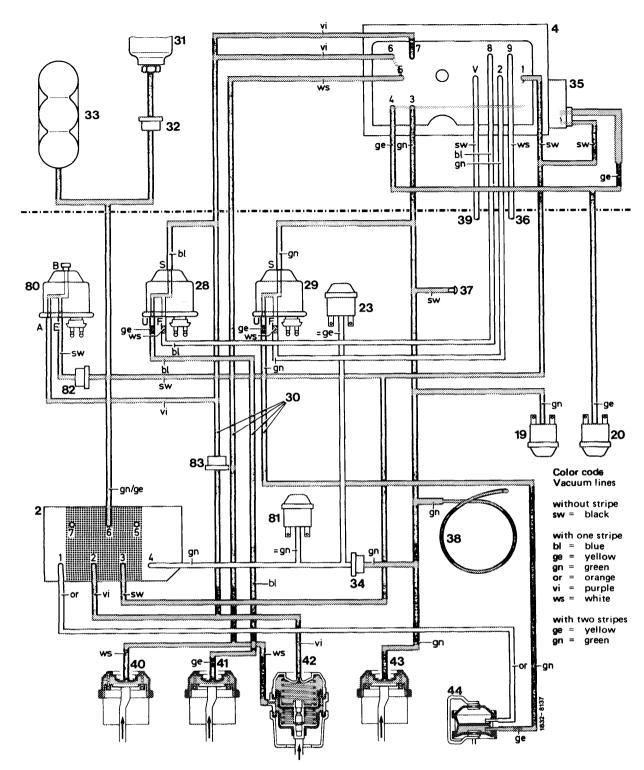
- Pushbutton switch
- Regulating valve
- 19 Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant
- compressor, yellow) Vacuum switch (for refrigerant compressor, at "BI-LEVEL" only) 23
- Switchover valve (legroom flaps) Switchover valve (fresh air-recirculat-
- ing air changeover switch) 30 Vacuum lines
- Vacuum connection at intake pipe
- Check valve
- 33 34 Vacuum reservoir
- Check valve
- 35 Temperature switch 36
- Vent line for legroom flaps Vacuum connection for tester
- Specified leak point Vent line for regulating valve 38 39
- Vacuum element for center
- nozzles (flap "open")
- Vacuum element for legroom (flaps "closed")
- 42 2-stage vacuum element for defroster nozzles (flaps "closed")43 Vacuum element for fresh air
- portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh airrecirculating air changeover switch (flap "open" 100 % fresh air supply) Switchover valve "BI-LEVEL"
- (at "DEF" only)
- Vacuum switch (at "BI-LEVEL" only)
- 82 Check valve
- Check valve 83



Pushbutton switch at "AUTO-LO" or "AUTO-HI", "ON/OFF" switch refrigerant compressor at "ON" Regulating valve in position max "cooling" (recirculating air), coolant temperature > 104 °F (>40 °C)

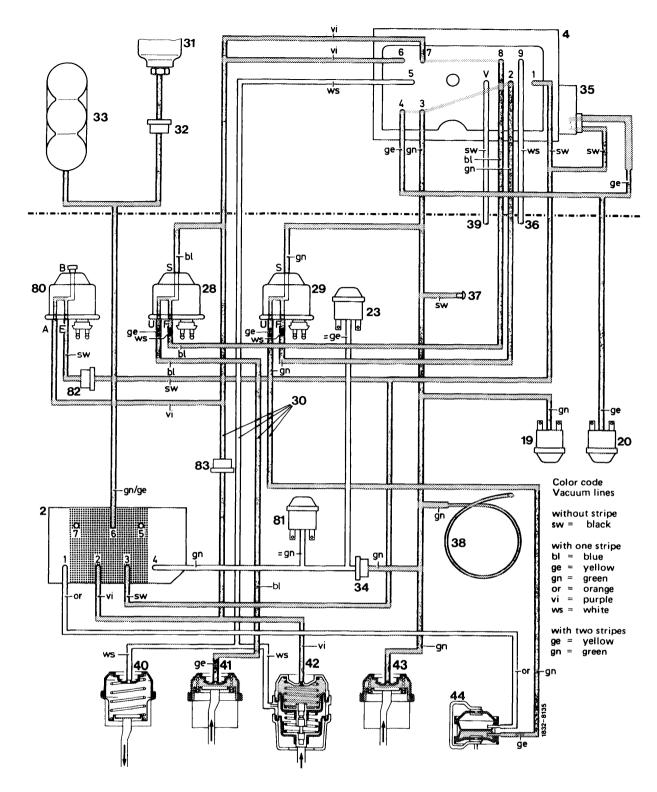
- Pushbutton switch
- Regulating valve
- Vacuum switch (main switch, green)
 Vacuum switch (refrigerant
- 20 compressor, yellow)
- 23 Vacuum switch (for refrigerant compressor, at "BI-LEVEL" only)
- Switchover valve (legroom flaps)
 Switchover valve (fresh air-recirculat-
- ing air changeover switch) Vacuum lines
- Vacuum connection at intake pipe
- Check valve

- Vacuum reservoir
- Check valve
- Temperature switch Vent line for legroom flaps
- Vacuum connection for tester
- Specified leak point
- Vent line for regulating valve
- Vacuum element for center nozzles (flap "open")
- Vacuum element for legroom (flaps "closed")
- 2-stage vacuum element for defroster nozzles (flaps "closed")
- 43 Vacuum element for fresh air portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh airrecirculating air changeover switch (flap in position "recirculating air", 20 % fresh air/80 % recirculating air, flap is maintained in this position by vacuum element (43))
- Switchover valve "BI-LEVEL"
 (at "DEF" only)
 Vacuum switch (at "BI-LEVEL" only)
- Check valve
- Check valve



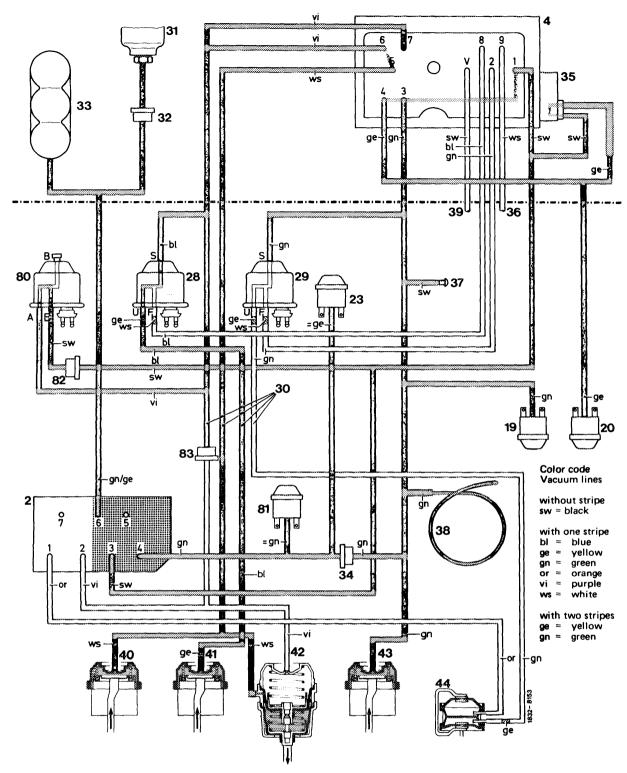
Pushbutton switch at "AUTO-LO" or "AUTO-HI", "ON/OFF" switch refrigerant compressor at "OFF" Regulating valve in position max "cooling" (fresh air), coolant temperature > 104 °F (>40 °C)

- Pushbutton switch
- Regulating valve
- 19
- Vacuum switch (main switch, green)
 Vacuum switch (refrigerant compressor, 20 yellow)
 Vacuum switch (for refrigerant
- compressor, at "BI-LEVEL" only)
- Switchover valve (legroom flaps) Switchover valve (fresh air-recirculat-
- ing air changeover switch) Vacuum lines
- Vacuum connection at intake pipe
- Check valve
- Vacuum reservoir 33 Check valve
- Temperature switch
- Vent line for legroom flaps
- 37 Vacuum connection for tester
- 38
- Specified leak point Vent line for regulating valve 39
- 40 Vacuum element for center nozzles (flap "open")
- 41 Vacuum element for legroom flaps (flaps "open")
- 42 2-stage vacuum element for defroster nozzles (flaps "closed")
- Vacuum element for fresh air portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh airrecirculating air changeover switch
 (flap "open" 100 % fresh air supply)
 Switchover valve "BI-LEVEL"
 (at "DEF" only)
 Vacuum switch (at "BI-LEVEL" only)
- Check valve
- Check valve



Pushbutton switch at "AUTO-LO" or "AUTO-HI", "ON/OFF" switch refrigerant compressor at "ON" Regulating valve in position "heating", coolant temperature > 104 °F (>40 °C)

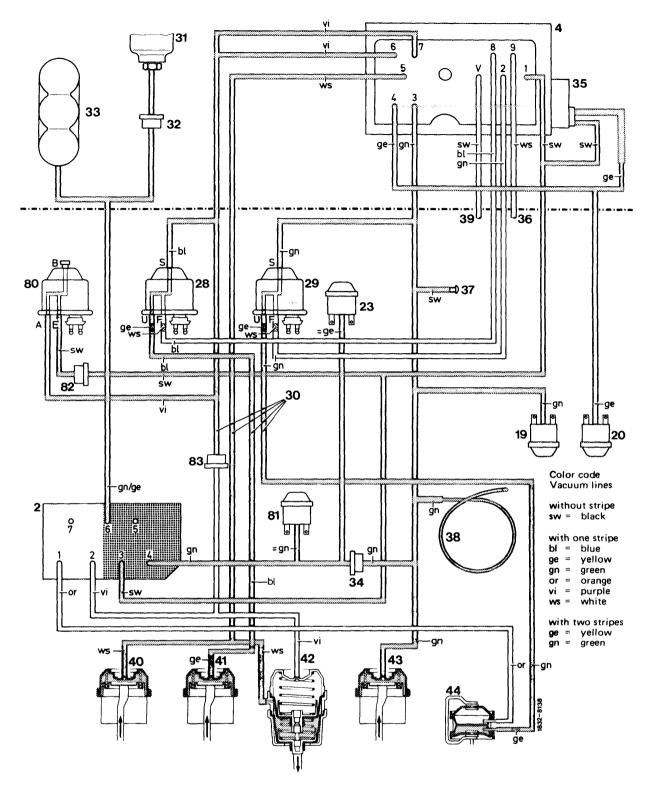
- Pushbutton switch
- Regulating valve
- 19
- Vacuum switch (main switch, green)
 Vacuum switch (refrigerant compressor, yellow)
- 23 Vacuum switch (for refrigerant compressor, at "BI-LEVEL" only)
- Switchover valve (legroom flaps)
- Switchover valve (fresh air-recirculating air changeover switch)
- 30 Vacuum lines
- Vacuum connection at intake pipe
- Check valve
- Vacuum reservoir
- 34 35 Check valve
- Temperature switch Vent line for legroom flaps 36
- Vacuum connection for tester
- Specified leak point
- 39 Vent line for regulating valve
- Vacuum element for center nozzles (flap "closed") 40
- Vacuum element for legroom flaps (flaps "open")
- 42 2-stage vacuum element for defroster nozzles (flaps "closed" with leak air portion)
 Vacuum element for fresh air
- portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh airrecirculating air changeover switch
 (flap "open" 100 % fresh air supply)
 Switchover valve "BI-LEVEL"
 (at "DEF" only)
- Vacuum switch (at "BI-LEVEL" only)
- 82 Check valve 83 Check valve



Pushbutton switch at "BI-LEVEL", "ON/OFF" switch refrigerant compressor at "ON" Regulating valve in position max "cooling" (recirculating air), coolant temperature \geq 104 $^{\circ}$ F (\geq 40 $^{\circ}$ C), (temperature switch [35] without influence)

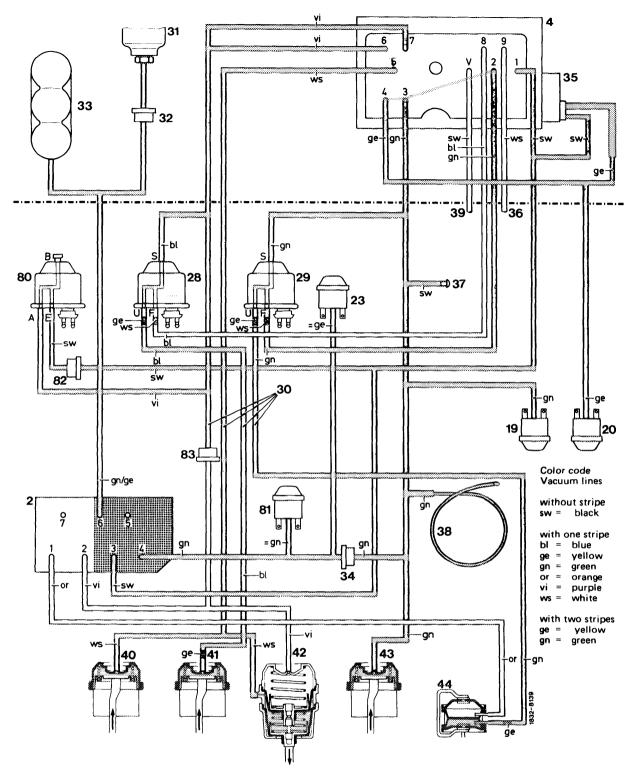
- Pushbutton switch
- Regulating valve Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant
- vacuum switch (for refrigerant compressor, at "BI-LEVEL" only) Switchover valve (legroom flaps)
- Switchover valve (fresh air-recirculating air changeover switch)
- 30 Vacuum lines
- Vacuum connection at intake pipe
- Check valve

- Vacuum reservoir
- 34 Check valve
- Temperature switch Vent line for legroom flaps
- Vacuum connection for tester
- 38 Specified leak point
- 39 Vent line for regulating valve
- Vacuum element for center nozzles 40
- (flaps "open")
- Vacuum element for legroom flaps (flaps "open")
- 2-stage vacuum element for defroster nozzles (flaps "open")
- 43 Vacuum element for fresh air portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh airrecirculating air changeover switch (flap in position "recirculating air", 20 % fresh air/80 % recirculating air), flaps is maintained in this position by vacuum element (43)
- Switchover valve "BI-LEVEL" (at "DEF" only)
- Vacuum switch (at "BI-LEVEL" only)
 Check valve 81
- 82
- 83 Check valve



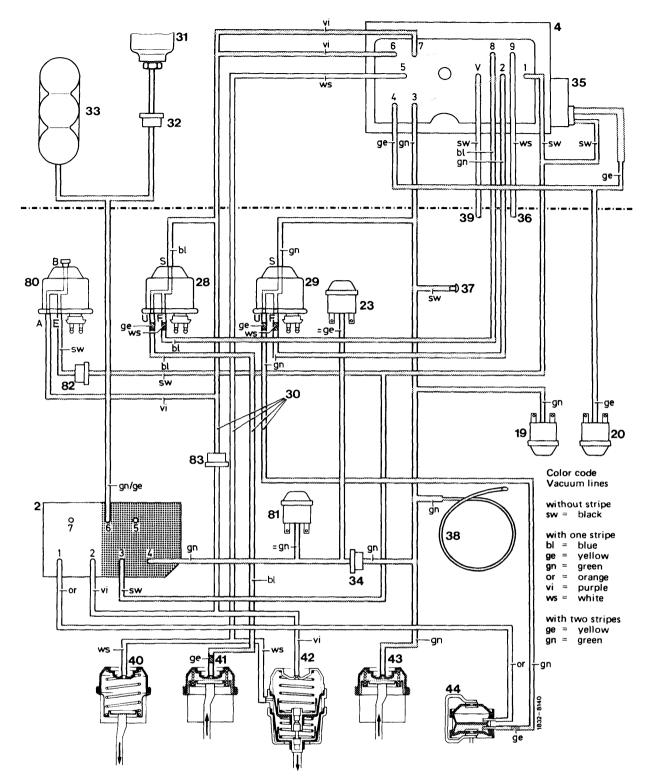
Pushbutton switch at "BI-LEVEL", "ON/OFF" switch refrigerant compressor at "OFF" Regulating valve in position max "cooling" (fresh air), coolant temperature > 104 °F (> 40 °C), (temperature switch [35] without influence)

- Pushbutton switch
- Regulating valve
- 19 Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant
- compressor, yellow)
 23 Vacuum switch (for refrigerant compressor, at "BI-LEVEL" only)
 28 Switchover valve (legroom flaps)
- Switchover valve (fresh air-recirculating air changeover switch)
- Vacuum lines
- Vacuum connection at intake pipe
- Check valve
- Vacuum reservoir
- Check valve
- 35 Temperature switch
- 36 Vent line for legroom flaps Vacuum connection for tester
- Specified leak point
- 39 Vent line for regulating valve
- 40 Vacuum element for center nozzles (flap "open")
- Vacuum element for legroom flaps (flaps "open")
- 42 2-stage vacuum element for
- defroster nozzles (flaps "open")
 Vacuum element for fresh air portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh air-recirculating air changeover switch (flap "open"
- 100 % fresh air supply)
 Switchover valve "BI-LEVEL" (at "DEF" only)
- Vacuum switch (at "BI-LEVEL" only)
- Check valve
- Check valve



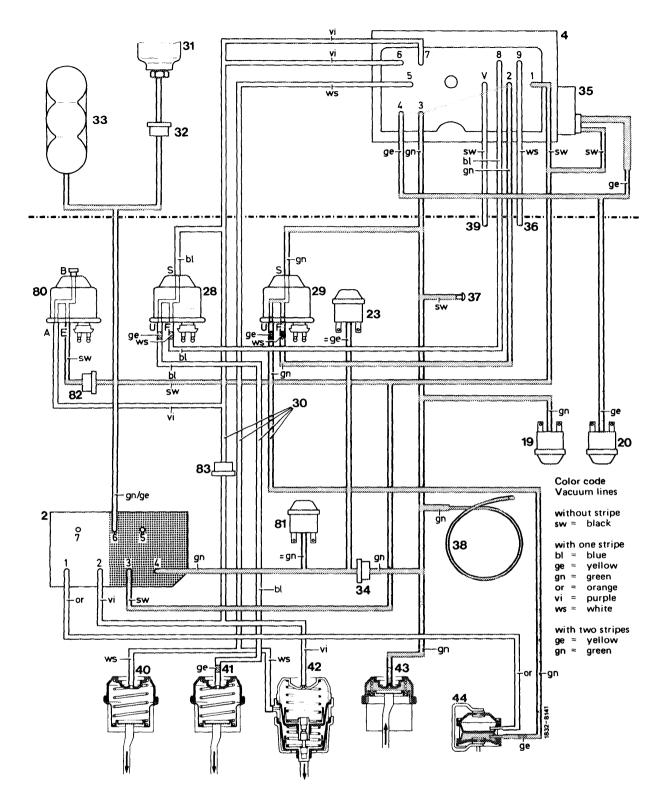
Pushbutton switch at "BI-LEVEL", "ON/OFF" switch refrigerant compressor at "ON" Regulating valve in position "cooling", coolant temperature > 104 °F (>40 °C), (temperature switch [35] without influence)

- Pushbutton switch
- Regulating valve
- Vacuum switch (main switch, green) Vacuum switch (refrigerant 20
- compressor, yellow)
 Vacuum switch (for refrigerant compressor, at "BI-LEVEL" only)
- Switchover valve (legroom flaps)
- Switchover valve (fresh airrecirculating air changeover switch)
- Vacuum lines
- Vacuum connection at intake pipe
- Check valve
- Vacuum reservoir Check valve
- Temperature switch 35
- Vent line for legroom flaps
- Vacuum connection for tester
- Specified leak point
- Vent line for regulating valve
- Vacuum element for center nozzles (flap "open")
- 41 Vacuum element for legroom flaps (flaps "open")
- 42 2-stage vacuum element for defroster nozzles (flaps "open")
- Vacuum element for fresh air portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh airrecirculating air changeover switch (flap "open" 100 % fresh air supply) Switchover valve "BI-LEVEL" (at "DEF" only)
- Vacuum switch (at "BI-LEVEL" only)
- 82 83
- Check valve Check valve



Pushbutton switch at "BI-LEVEL", "ON/OFF" switch refrigerant compressor at "ON" Regulating valve in position "heating", coolant temperature >104 °F (>40 °C), (temperature switch [35] without influence)

- Pushbutton switch
- Regulating valve
- Vacuum switch (main switch, green) Vacuum switch (refrigerant 19
- 20
- 23 Vacuum switch (refrigerant compressor, yellow)
 23 Vacuum switch (for refrigerant compressor at "BI-LEVEL" only)
 28 Switchover valve (legroom flaps)
 29 Switchover valve (fresh air-
- recirculating air changeover switch)
- Vacuum lines
- Vacuum connection at intake pipe
- Check valve
- Vacuum reservoir
- 34 35 36 Check valve Temperature switch
- Vent line for legroom flaps Vacuum connection for tester
- Specified leak point
- 39 Vent line for regulating valve
- 40 Vacuum element for center nozzles (flap "closed")
- 41 Vacuum element for legroom flaps (flaps "open")
- 42 2-stage vacuum element for
- defroster nozzles (flaps "open") Vacuum element for fresh air portion of fresh air-recirculating air changeover switch
- Vacuum element for fresh airrecirculating air changeover switch
 (flap "open" 100 % fresh air supply)
 Switchover valve "BI-LEVEL"
 (at "DEF" only)
- Vacuum switch (at "BI-LEVEL" only) 81
- Check valve
- Check valve



Function diagram 10

Pushbutton switch at "DEF", "ON/OFF" switch refrigerant compressor at "ON" Regulating valve in position "heating", coolant temperature > 104 °F (>40 °C), (temperature switch [35] without influence)

- Pushbutton switch
- Regulating valve
- Vacuum switch (main switch, green)
- 20 Vacuum switch (refrigerant compressor, yellow)
- Vacuum switch (for refrigerant compressor, at "BI-LEVEL" only) Switchover valve (legroom flaps)
- Switchover valve (fresh air-
- recirculating air changeover switch) Vacuum lines
- Vacuum connection at intake pipe
- Check valve Vacuum reservoir
- Check valve
- Temperature switch
- Vent line for legroom flaps Vacuum connection for tester 37
- Vent line for regulating valve
- Specified leak point
- Vent line for regulating valve 39
- Vacuum element for center nozzles (flap "closed")
- Vacuum element for legroom flaps (flaps "closed")
- 42 2-stage vacuum element for defroster nozzles (flaps "open")
- Vacuum element for fresh air 43 portion of fresh air-recirculating air changeover switch Vacuum element for fresh air-
- recirculating air changeover switch
 (flap "open" 100 % fresh air supply)
 Switchover valve "BI-LEVEL"
 (at "DEF" only)
- 80
- Vacuum switch (at "BI-LEVEL" only)
- 83 Check valve