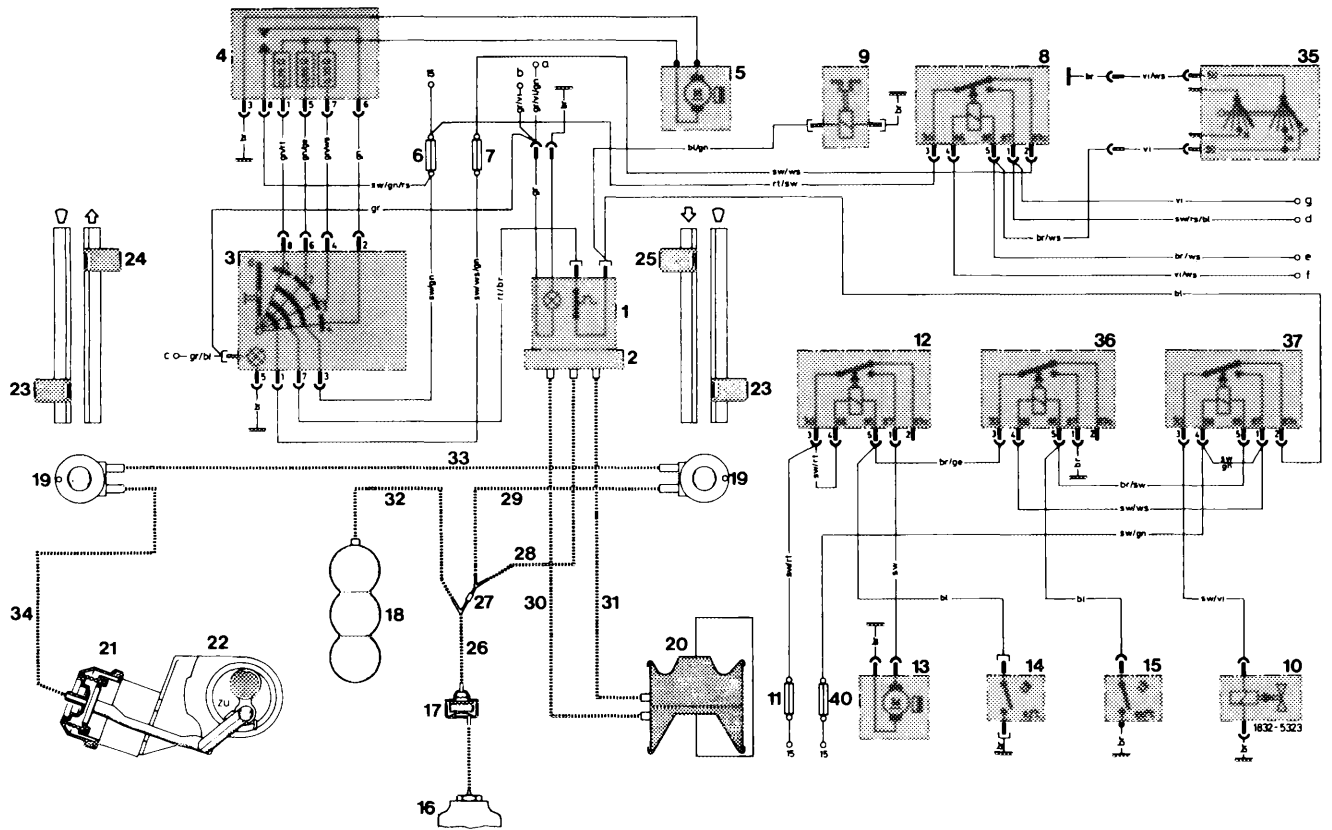
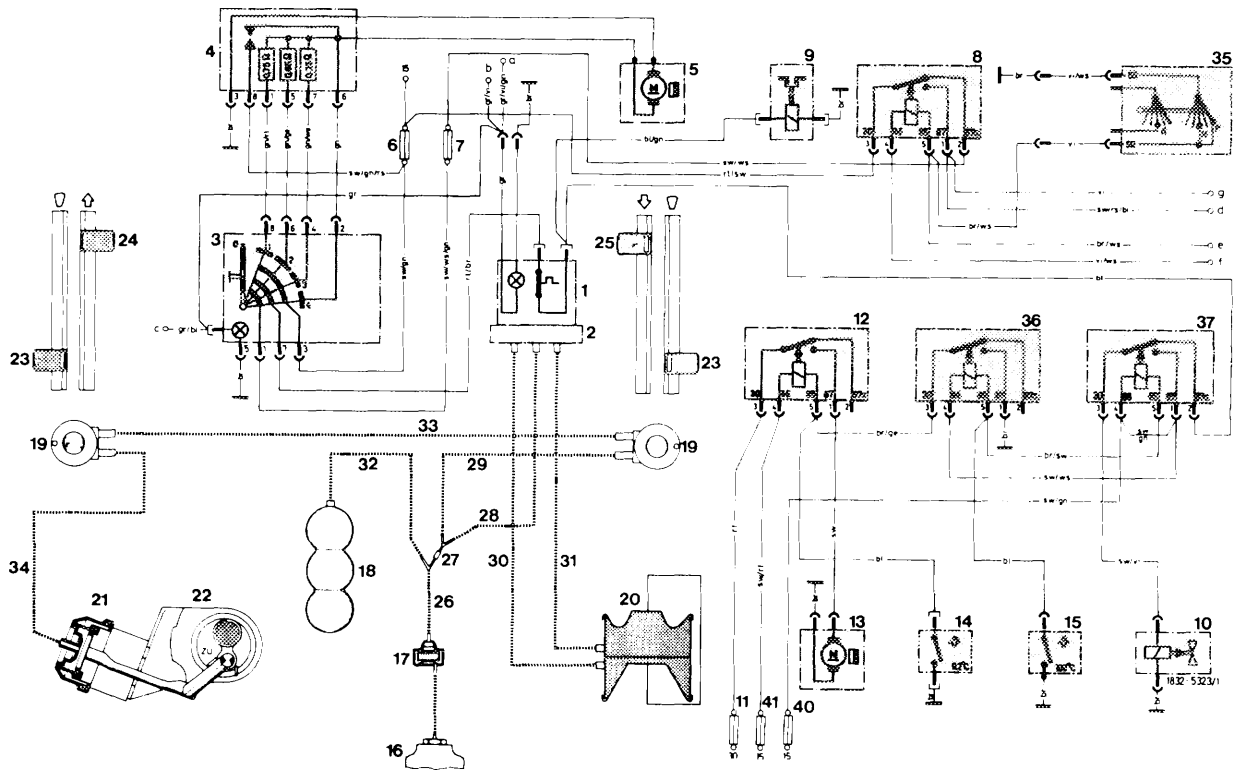


B. Electric function of air conditioning system (USA)



Wiring diagram cooling and heating model year 1973

- | | |
|---|---|
| <ul style="list-style-type: none"> a Terminal 58 d instrument cluster b Warning flasher switch terminal 58 c Lights control unit heating, venting d Relay for starting valve terminal 86 e Relay for seat belt warning system terminal 85 f Ignition lock terminal 50 g Starter terminal 50 1 Temperature regulator 2 Vacuum switch 3 Blower switch 4 Pre-resistors 5 Blower 6 Fuse no. 3 (16 amps) 7 Fuse no. 9 (8 amps) 8 Relay air conditioning/starter 9 Electromagnetic clutch 10 Two-way valve for rpm stabilization (ignition switchover) 11 Fuse no. 8 (16 amps) 12 Relay supplementary fan 13 Supplementary fan 14 Temperature switch 62 °C refrigerant temperature 15 Temperature switch 100 °C coolant water temperature 16 Vacuum connection on intake pipe 17 Check valve 18 Vacuum supply tank for heating and air conditioning 19 Vacuum changeover switch left or right 20 Vacuum element for recirculating air flap | <ul style="list-style-type: none"> 21 Vacuum element for heater valve 22 Heater valve 23 Operating lever for heater left or right 24 Operating lever for ventilation, top 25 Operating lever for ventilation, bottom 26 Vacuum line from check valve to distributor (white) 27 Distributor 28 Vacuum line to temperature vacuum switch (medium green) 29 Vacuum line to right-hand vacuum changeover switch (medium green) 30 Vacuum line to vacuum element for recirculating air flap (light green) 31 Vacuum line to vacuum element for changeover flap (dark green) 32 Vacuum line to reservoir (medium green) 33 Vacuum connecting line (red) 34 Vacuum line to vacuum element for heater valve (red) 35 Starter lockout and back-up lamp switch 36 Relay disconnection, air conditioner (supplementary fan) from ignition switchover 37 Relay for speed stabilization (ignition switchover) 40 Fuse no. 4 (8 amps) |
|---|---|



Wiring diagram cooling and heating starting model year 1974

- | | | | |
|----|---|----|--|
| a | Terminal 58 d instrument cluster | 21 | Vacuum element for heater valve |
| b | Warning flasher switch terminal 58 | 22 | Heater valve |
| c | Lighting control unit heating, venting | 23 | Operating lever for heater left or right |
| d | Relay for starting valve terminal 86 | 24 | Operating lever for ventilation, top |
| e | Seat belt warning system | 25 | Operating lever for ventilation, bottom |
| f | Ignition lock terminal 50 | 26 | Vacuum line from check valve to distributor (white) |
| g | Starter terminal 50 | 27 | Distributor |
| 1 | Temperature regulator | 28 | Vacuum line to temperature vacuum switch (medium green) |
| 2 | Vacuum switch | 29 | Vacuum line to right-hand vacuum changeover switch (medium green) |
| 3 | Blower switch | 30 | Vacuum line to vacuum element for recirculating air flap (light green) |
| 4 | Pre-resistors | 31 | Vacuum line to vacuum element for recirculating air flap (dark green) |
| 5 | Blower | 32 | Vacuum line to reservoir (medium green) |
| 6 | Fuse no. 3 (16 amps) | 33 | Vacuum connecting line (red) |
| 7 | Fuse no. 9 (8 amps) | 34 | Vacuum line to vacuum element for heater valve (red) |
| 8 | Relay air conditioning/starter | 35 | Starter lockout and back-up light switch |
| 9 | Electromagnetic clutch | 36 | Relay disconnection, air conditioning (supplementary fan) from ignition switchover |
| 10 | Two-way valve for rpm stabilization (ignition switchover) | 37 | Relay for rpm stabilization (ignition switchover) |
| 11 | Fuse no. 2 (16 amps) | 40 | Fuse no. 4 (8 amps) |
| 12 | Relay supplementary fan | 41 | Model year 74 |
| 13 | Supplementary fan | | Fuse no. 4 (8 amps) |
| 14 | Temperature switch 62 °C refrigerant temperature | | Model year 75 |
| 15 | Temperature switch 100 °C cooling water temperature | | Fuse no. 10 (8 amps) |
| 16 | Vacuum connection on intake pipe | | |
| 17 | Check valve | | |
| 18 | Vacuum reservoir for heating and air conditioning | | |
| 19 | Vacuum changeover switch left or right | | |
| 20 | Vacuum element for recirculating air flap | | |

Supplementary fan

1 Switching-on of ignition will start the following sequence:

On model year 73 terminal 30 and 86 of relay (12) are energized via fuse no. 8 (11) of 15/54.

On model year 74 terminal 30 is energized via fuse no. 2 of 30, and terminal 86 of relay (12) is energized via fuse no. 4 of 15/54.

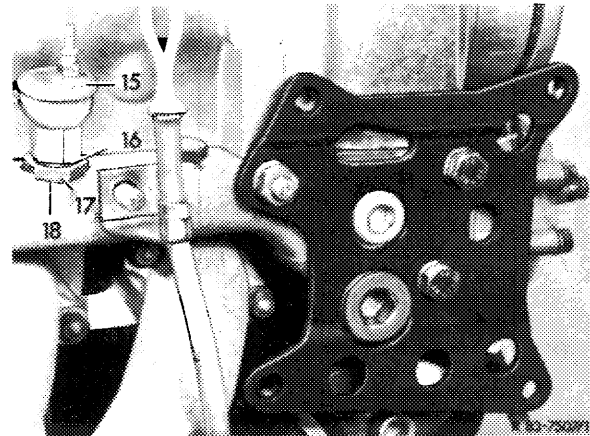
On model year 75 terminal 30 is energized via fuse no. 2 of 30, and terminal 86 of relay (12) is energized via fuse no. 10 of 15/54.

2 The supplementary fan is switched on by 2 temperature switches (14 and 15).

a) At a coolant temperature of more than 62 °C by temperature switch (14) via relay (12).

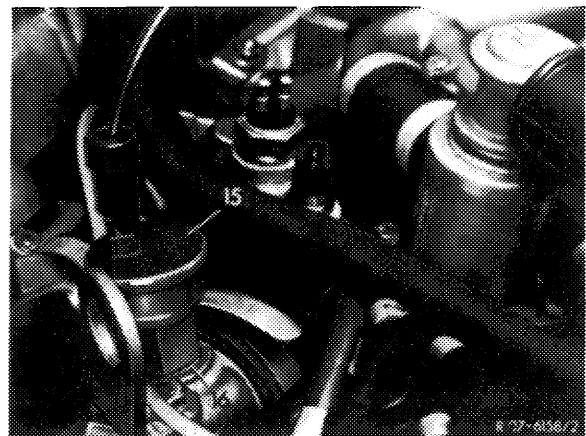
Temperature switch 100 °C model 116.020/024

- 15 Temperature switch (100 °C)
- 16 Sealing ring
- 17 Connection
- 18 Sealing ring



Temperature switch 100 °C model 116.032/033

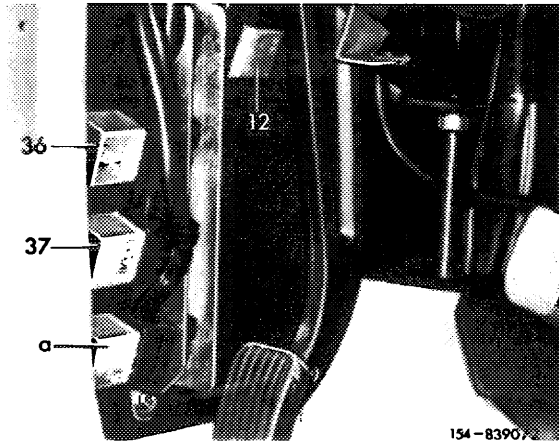
- 15 Temperature switch (100 °C)



b) At a coolant temperature of approx. 100 °C by temperature switch (15) via relay (12 and 36).

Layout of relay

- a Window lifter code number 10
- 12 Supplementary fan code number 6
- 36 Disconnection air conditioner (supplementary fan) from ignition switchover code number 8
- 37 Switchover valve ignition rpm stabilization code number 5



3 All electric lines for air conditioning system and supplementary fan are already included in main harness of all USA vehicles.