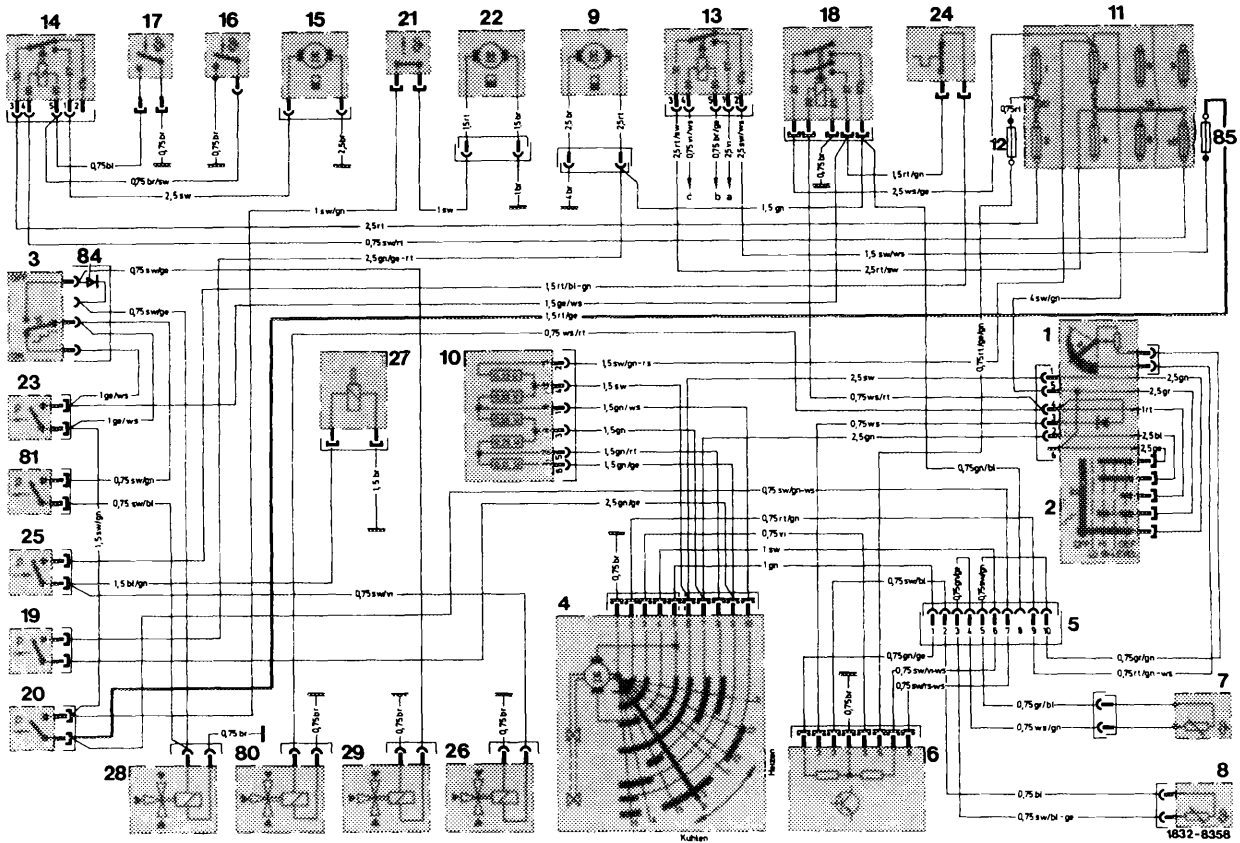


Wiring diagram 1

Blower control (regulating valve in position "P 2")

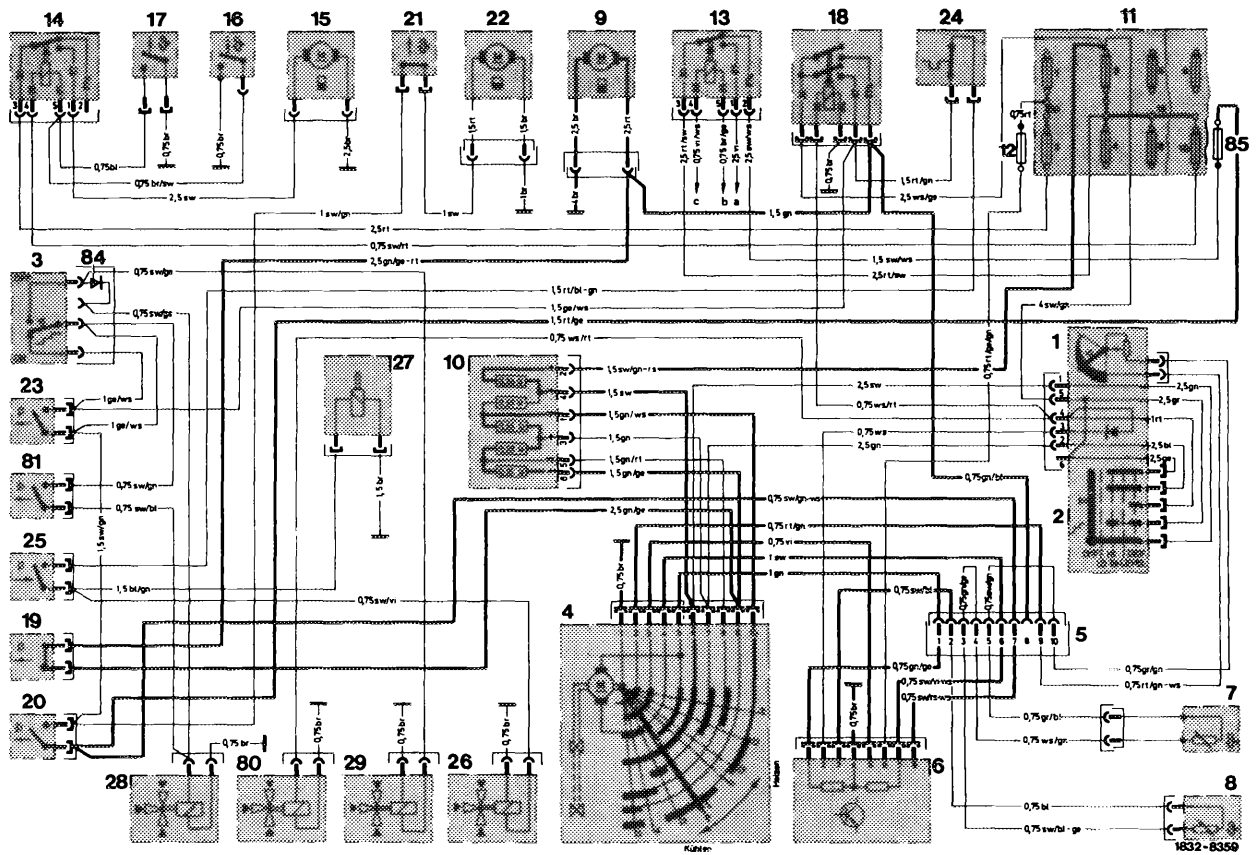
- | | |
|---|---|
| <ul style="list-style-type: none"> 1 Temperature dial 2 Pushbutton switch 3 "ON/OFF" switch refrigerant compressor 4 Regulating valve 5 10-point plug connection for tester 6 Amplifier 7 In-car temperature sensor 8 Ambient temperature sensor 9 Blower 10 Pre-resistance for blower 11 Main fuse box
Fuse 2 : 16 amps
Fuse 3 : 16 amps
Fuse 10 : 16 amps 12 Additional fuse for amplifier (2 amps) 13 Relay air conditioning system 14 Relay auxiliary fan 15 Auxiliary fan 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan 18 Double contact relay 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) | <ul style="list-style-type: none"> 21 Temperature switch for heating water pump (22)
16 °C (61 °F) ON, 26 °C (79 °F) OFF 22 Heating water pump 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) 24 ETR-switch 2 °C (36 °F) 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atü),
OFF 2.0 bar gauge pressure (2.0 atü) 26 Switchover valve for constant speed (not on model 116.020/120) 27 Electromagnetic clutch for refrigerant compressor 28 Switchover valve for vacuum element of legroom flaps 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch 80 Switchover valve "BI-LEVEL" (at "DEF") 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) 84 Diode 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) <ul style="list-style-type: none"> a Cable connector starter terminal 50 b Starter lockout and back-up lamp switch c Ignition starter switch terminal 50 |
|---|---|



Wiring diagram 1 a

Refrigerant compressor control

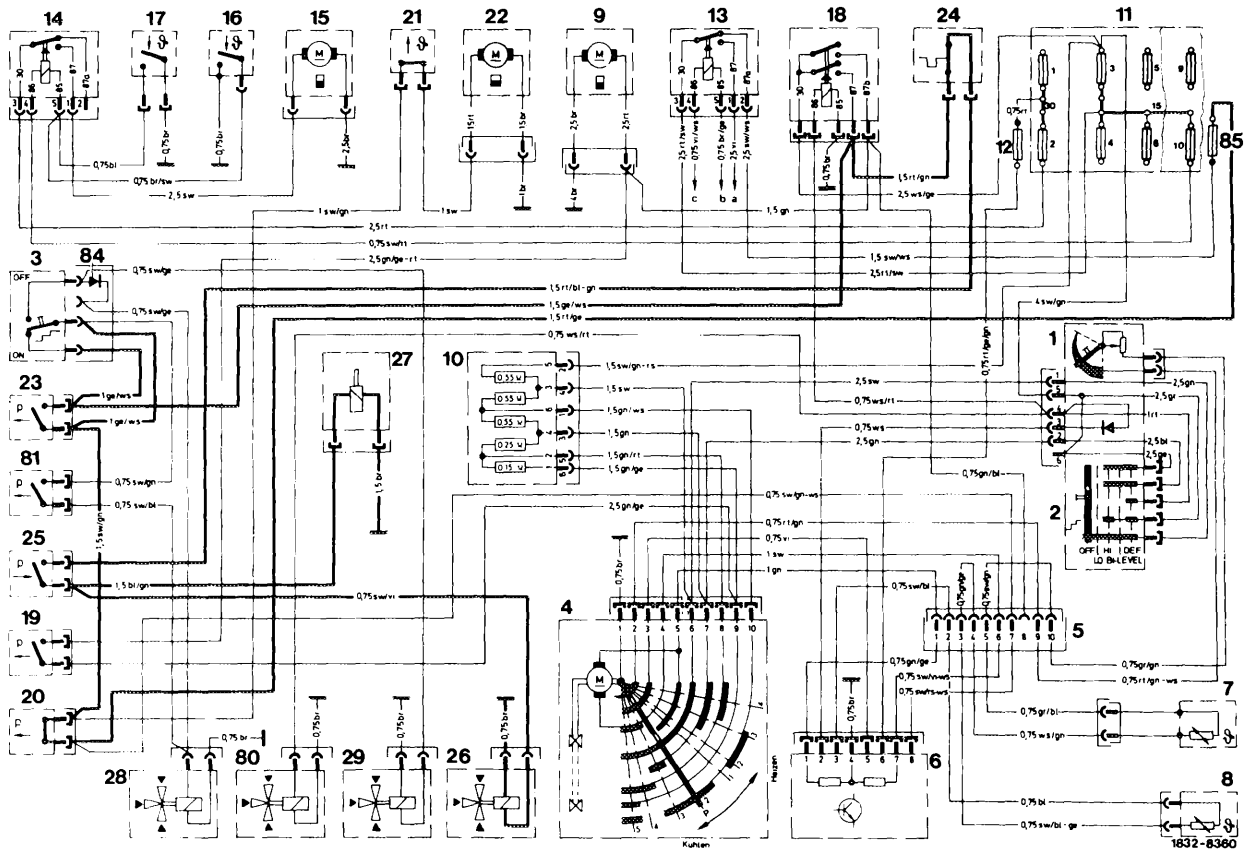
- | | |
|--|--|
| <p>1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 2 : 16 amps
 Fuse 3 : 16 amps
 Fuse 10 : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)</p> | <p>20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22)
 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 24 ETR switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor
 ON 2.6 bar gauge pressure (2.6 atu),
 OFF 2.0 bar gauge pressure (2.0 atu)
 26 Switchover valve for constant speed (not on model 116.020/120)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
 80 Switchover valve "BI-LEVEL" (at "DEF")
 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 84 Diode
 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50</p> |
|--|--|



Wiring diagram 2

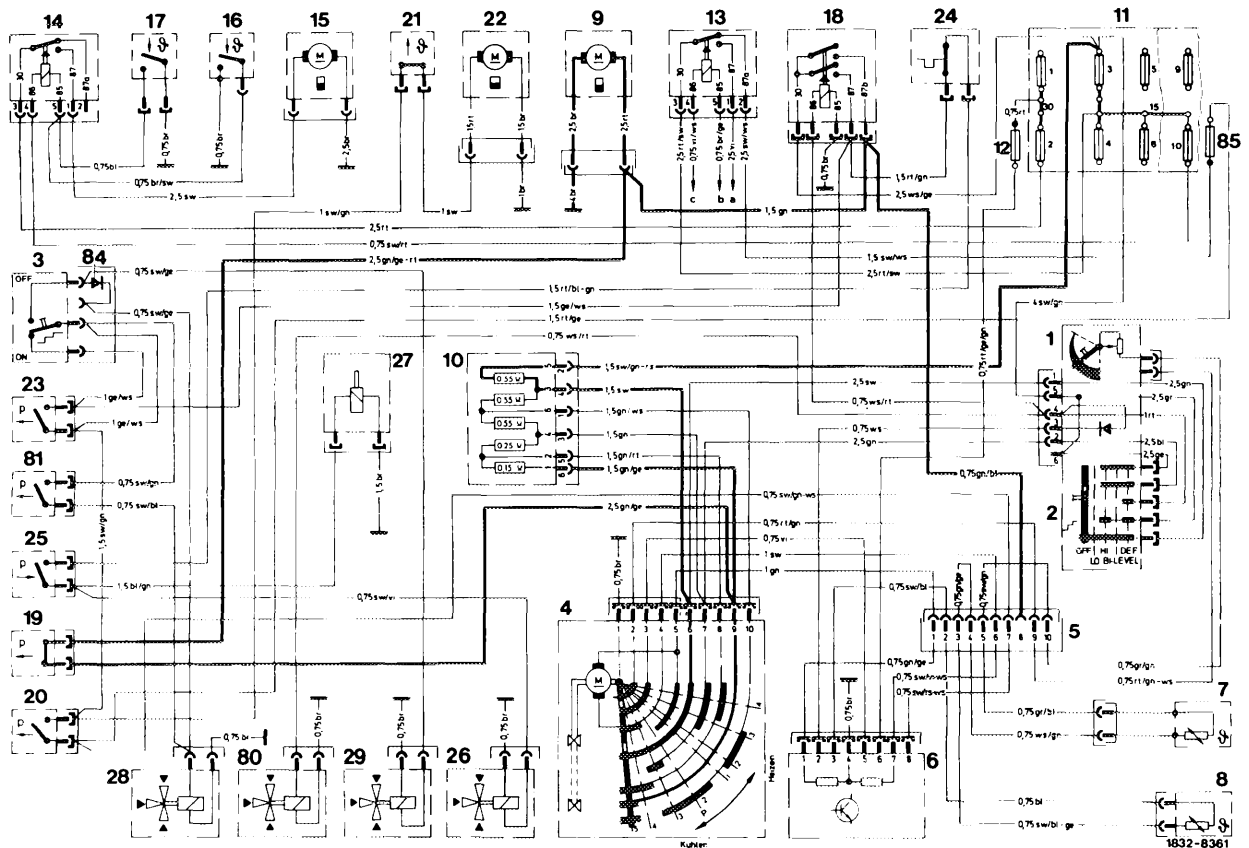
Blower control, position "park" and "AUTO-LO" (regulating valve in position "P 2")

- | | |
|---|---|
| 1 Temperature dial | 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) |
| 2 Pushbutton switch | 21 Temperature switch for heating water pump (22) |
| 3 "ON/OFF" switch refrigerant compressor | 22 Heating water pump |
| 4 Regulating valve | 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 5 10-point plug connection for tester | 24 ETR switch 2 °C (36 °F) |
| 6 Amplifier | 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atu),
OFF 2.0 bar gauge pressure (2.0 atu) |
| 7 In-car temperature sensor | 26 Switchover valve for constant speed (not on model 116.020/120) |
| 8 Ambient temperature sensor | 27 Electromagnetic clutch for refrigerant compressor |
| 9 Blower | 28 Switchover valve for vacuum element of legroom flaps |
| 10 Pre-resistance for blower | 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch |
| 11 Main fuse box
Fuse 2 : 16 amps
Fuse 3 : 16 amps
Fuse 10 : 16 amps | 80 Switchover valve "BI-LEVEL" (at "DEF") |
| 12 Additional fuse for amplifier (2 amps) | 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 13 Relay air conditioning system | 84 Diode |
| 14 Relay auxiliary fan | 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) |
| 15 Auxiliary fan | a Cable connector starter terminal 50 |
| 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan | b Starter lockout and back-up lamp switch |
| 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan | c Ignition starter switch terminal 50 |
| 18 Double contact relay | |
| 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) | |



Wiring diagram 2 a
Refrigerant compressor control

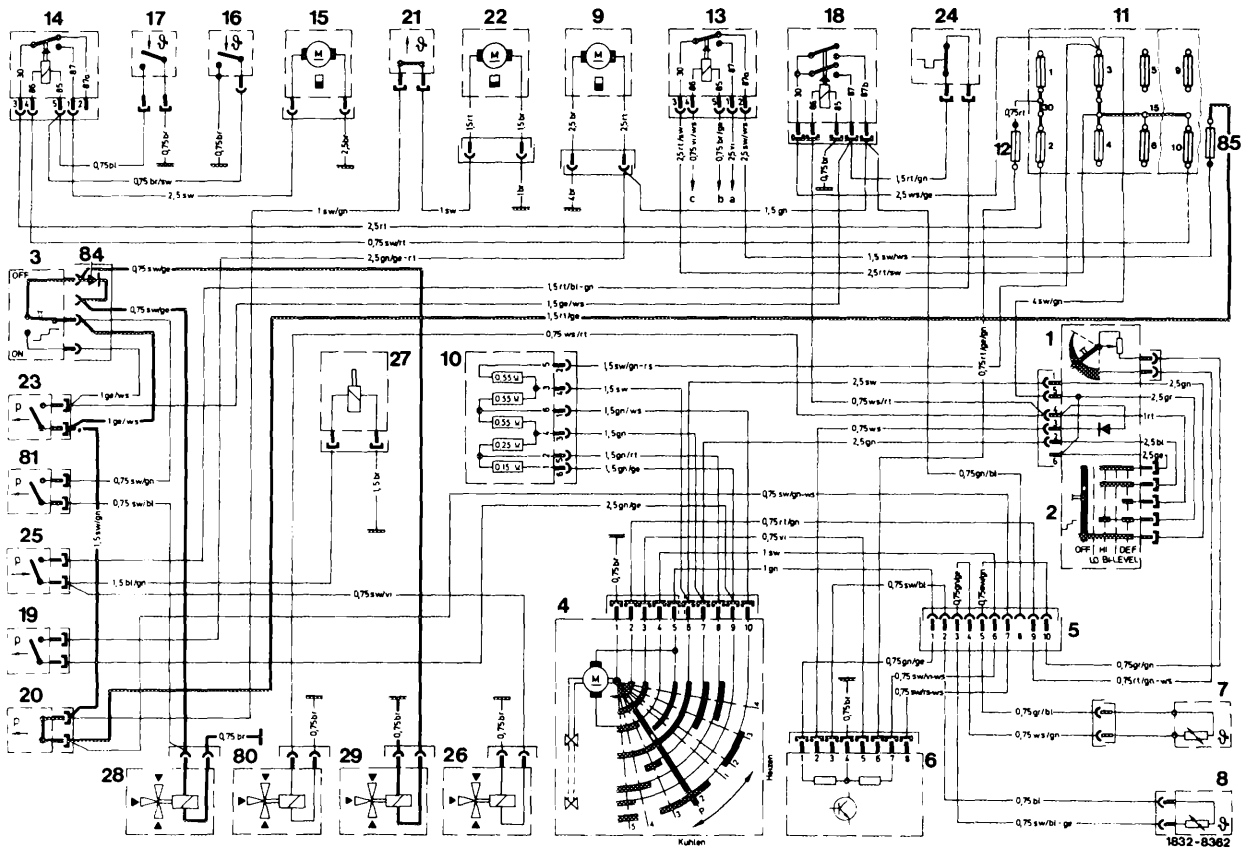
- | | |
|--|--|
| <p>1 Temperature dial
2 Pushbutton switch
3 "ON/OFF" switch refrigerant compressor
4 Regulating valve
5 10-point plug connection for tester
6 Amplifier
7 In-car temperature sensor
8 Ambient temperature sensor
9 Blower
10 Pre-resistance for blower
11 Main fuse box
Fuse 2 : 16 amps
Fuse 3 : 16 amps
Fuse 10 : 16 amps
12 Additional fuse for amplifier (2 amps)
13 Relay air conditioning system
14 Relay auxiliary fan
15 Auxiliary fan
16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
18 Double contact relay
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
22 Heating water pump
23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
24 ETR switch 2 °C (36 °F)
25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu)
26 Switchover valve for constant speed (not on model 116.020/120)
27 Electromagnetic clutch for refrigerant compressor
28 Switchover valve for vacuum element of legroom flaps
29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
80 Switchover valve "BI-LEVEL" (at "DEF")
81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
84 Diode
85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
a Cable connector starter terminal 50
b Starter lockout and back-up lamp switch
c Ignition starter switch terminal 50</p> | <p>1 Temperature dial
2 Pushbutton switch
3 "ON/OFF" switch refrigerant compressor
4 Regulating valve
5 10-point plug connection for tester
6 Amplifier
7 In-car temperature sensor
8 Ambient temperature sensor
9 Blower
10 Pre-resistance for blower
11 Main fuse box
Fuse 2 : 16 amps
Fuse 3 : 16 amps
Fuse 10 : 16 amps
12 Additional fuse for amplifier (2 amps)
13 Relay air conditioning system
14 Relay auxiliary fan
15 Auxiliary fan
16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
18 Double contact relay
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
22 Heating water pump
23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
24 ETR switch 2 °C (36 °F)
25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu)
26 Switchover valve for constant speed (not on model 116.020/120)
27 Electromagnetic clutch for refrigerant compressor
28 Switchover valve for vacuum element of legroom flaps
29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
80 Switchover valve "BI-LEVEL" (at "DEF")
81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
84 Diode
85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
a Cable connector starter terminal 50
b Starter lockout and back-up lamp switch
c Ignition starter switch terminal 50</p> |
|--|--|



Wiring diagram 3

Blower control, stage 5, "LO" (regulating valve in position 5)

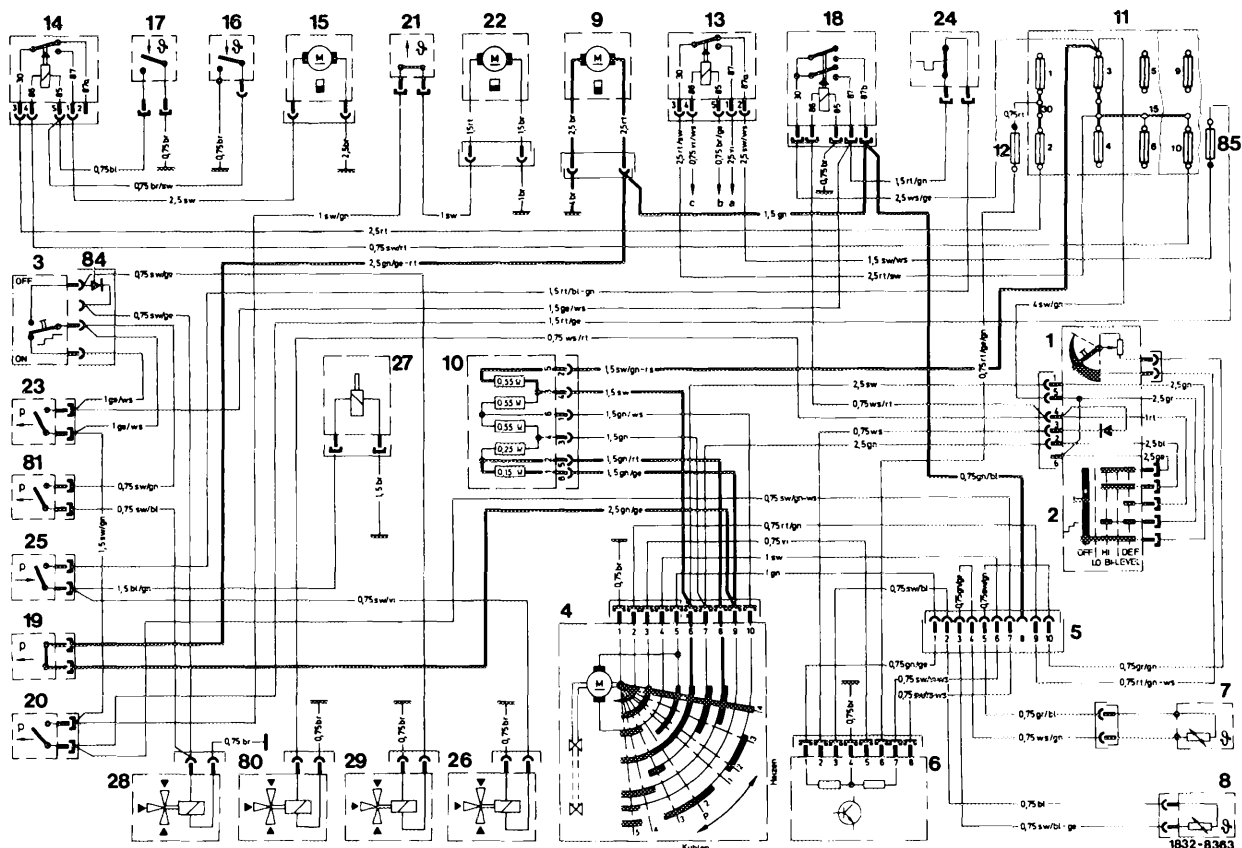
- | | |
|---|--|
| <p>1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 2 : 16 amps
 Fuse 3 : 16 amps
 Fuse 10 : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)
 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)</p> | <p>21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 24 ETR switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor
 ON 2.6 bar gauge pressure (2.6 atu)
 OFF 2.0 bar gauge pressure (2.0 atu)
 26 Switchover valve for constant speed (not on model 116.020/120)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
 80 Switchover valve "BI-LEVEL" (at "DEF")
 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 84 Diode
 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50</p> |
|---|--|



Wiring diagram 4

Control for switchover valves 28 and 29 (switch 3 for refrigerant compressor at "OFF")

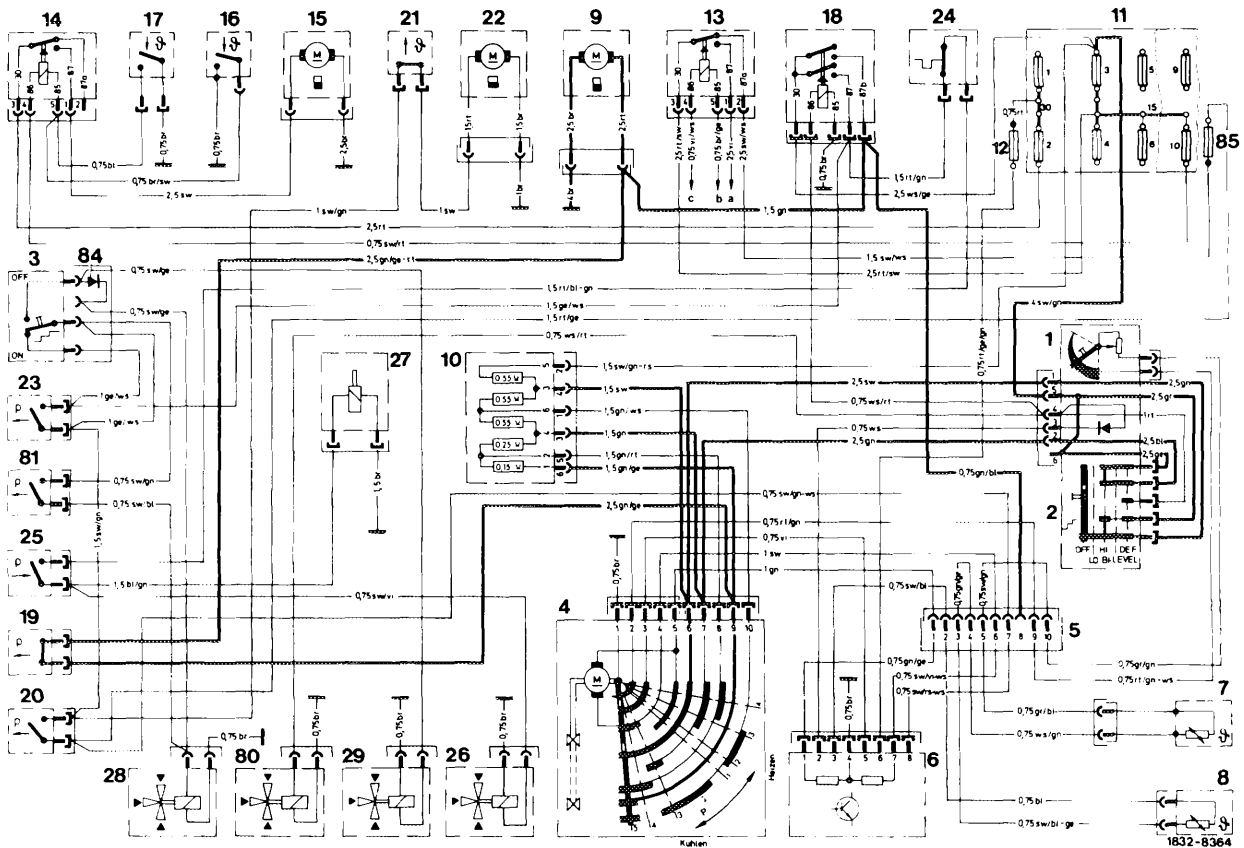
- | | | | |
|----|--|----|--|
| 1 | Temperature dial | 20 | Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) |
| 2 | Pushbutton switch | 21 | Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF |
| 3 | "ON/OFF" switch refrigerant compressor | 22 | Heating water pump |
| 4 | Regulating valve | 23 | Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 5 | 10-point plug connection for tester | 24 | ETR switch 2 °C (36 °F) |
| 6 | Amplifier | 25 | Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu) |
| 7 | In-car temperature sensor | 26 | Switchover valve for constant speed (not on model 116.020/120) |
| 8 | Ambient temperature sensor | 27 | Electromagnetic clutch for refrigerant compressor |
| 9 | Blower | 28 | Switchover valve for vacuum element of legroom flaps |
| 10 | Pre-resistance for blower | 29 | Switchover valve for vacuum element of fresh air-recirculating air changeover switch |
| 11 | Main fuse box
Fuse 2 : 16 amps
Fuse 3 : 16 amps
Fuse 10 : 16 amps | 80 | Switchover valve "BI-LEVEL" (at "DEF") |
| 12 | Additional fuse for amplifier (2 amps) | 81 | Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 13 | Relay air conditioning system | 84 | Diode |
| 14 | Relay auxiliary fan | 85 | Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) |
| 15 | Auxiliary fan | a | Cable connector starter terminal 50 |
| 16 | Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan | b | Starter lockout and back-up lamp switch |
| 17 | Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan | c | Ignition starter switch terminal 50 |
| 18 | Double contact relay | | |
| 19 | Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) | | |



Wiring diagram 5

Blower control, stage 4 "LO" (regulating valve in position 4)

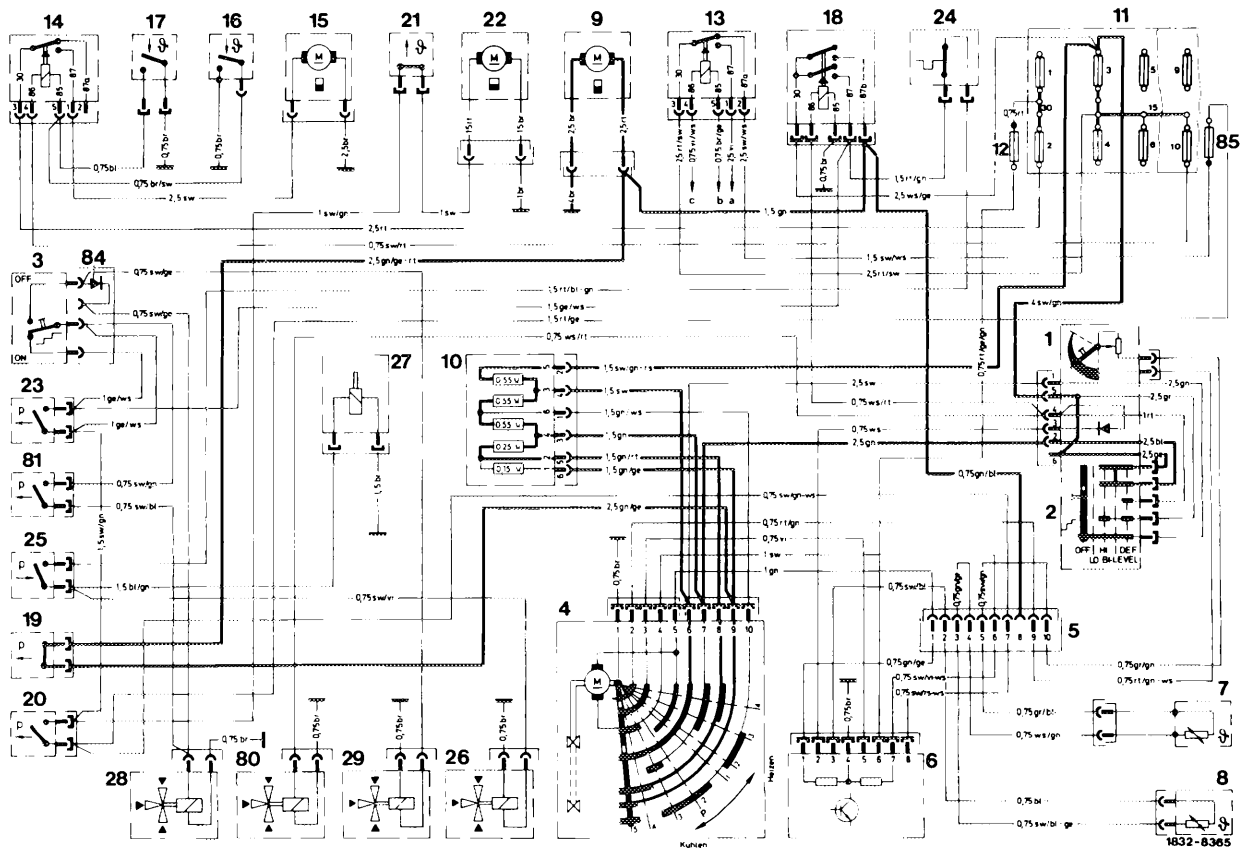
- | | |
|--|---|
| <p>1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection refrigerant compressor
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 2 : 16 amps
 Fuse 3 : 16 amps
 Fuse 10 : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)</p> | <p>20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 24 ETR switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu)
 26 Switchover valve for constant speed (not on model 116.020/120)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
 80 Switchover valve "BI-LEVEL" (at "DEF")
 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 84 Diode
 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50</p> |
|--|---|



Wiring diagram 6

Blower control, stage 3 "HI" (regulating valve in position 5)

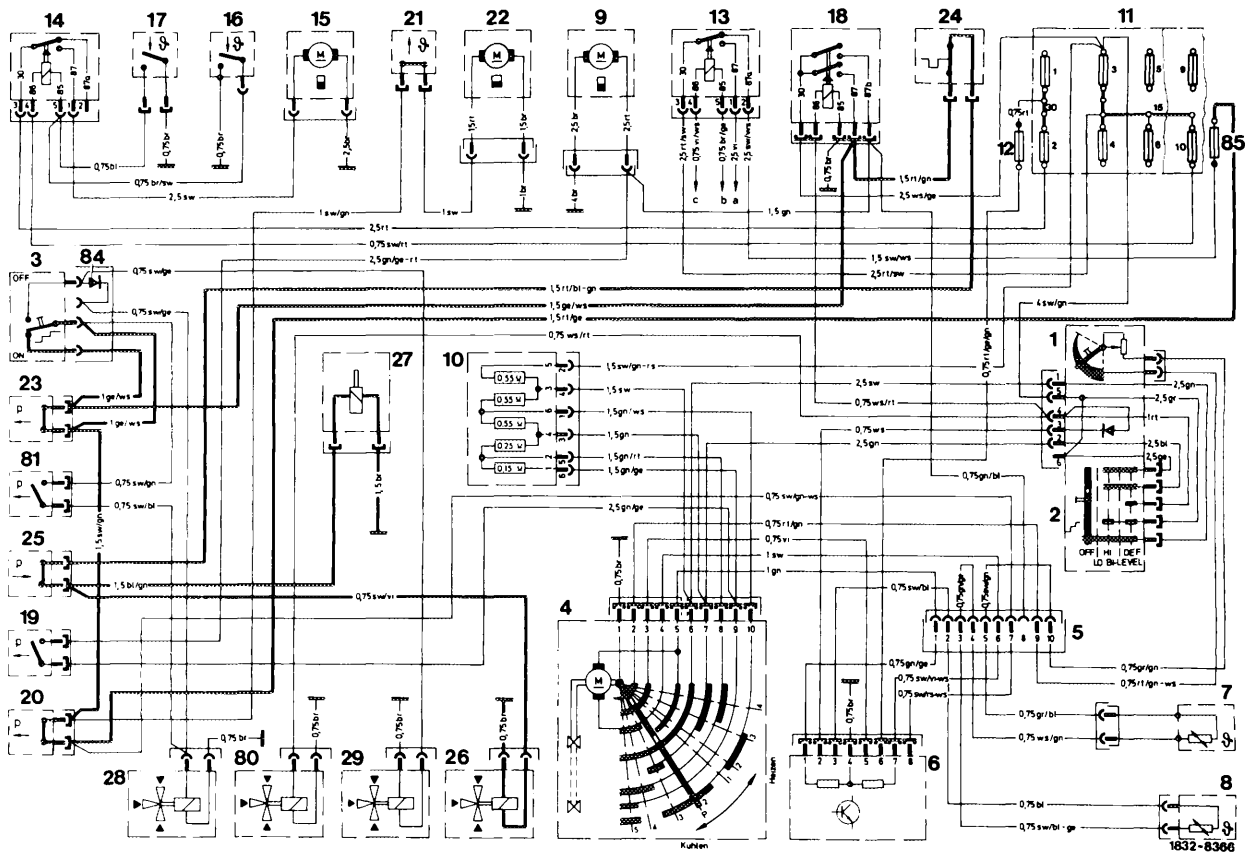
- | | |
|---|---|
| 1 Temperature dial | 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) |
| 2 Pushbutton switch | 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF |
| 3 "ON/OFF" switch refrigerant compressor | 22 Heating water pump |
| 4 Regulating valve | 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 5 10-point plug connection for tester | 24 ETR switch 2 °C (36 °F) |
| 6 Amplifier | 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu) |
| 7 In-car temperature sensor | 26 Switchover valve for constant speed (not on model 116.020/120) |
| 8 Ambient temperature sensor | 27 Electromagnetic clutch for refrigerant compressor |
| 9 Blower | 28 Switchover valve for vacuum element of legroom flaps |
| 10 Pre-resistance for blower | 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch |
| 11 Main fuse box
Fuse 2 : 16 amps
Fuse 3 : 16 amps
Fuse 10 : 16 amps | 80 Switchover valve "BI-LEVEL" (at "DEF") |
| 12 Additional fuse for amplifier (2 amps) | 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 13 Relay air conditioning system | 84 Diode |
| 14 Relay auxiliary fan | 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) |
| 15 Auxiliary fan | a Cable connector starter terminal 50 |
| 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan | b Starter lockout and back-up lamp switch |
| 17 Temperature switch 62 °C (212 °F) in receiver dehydrator for auxiliary fan | c Ignition starter switch terminal 50 |
| 18 Double contact relay | |
| 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) | |



Wiring diagram 7

Blower control, stage 2 "BI-LEVEL", (regulating valve in position 5)

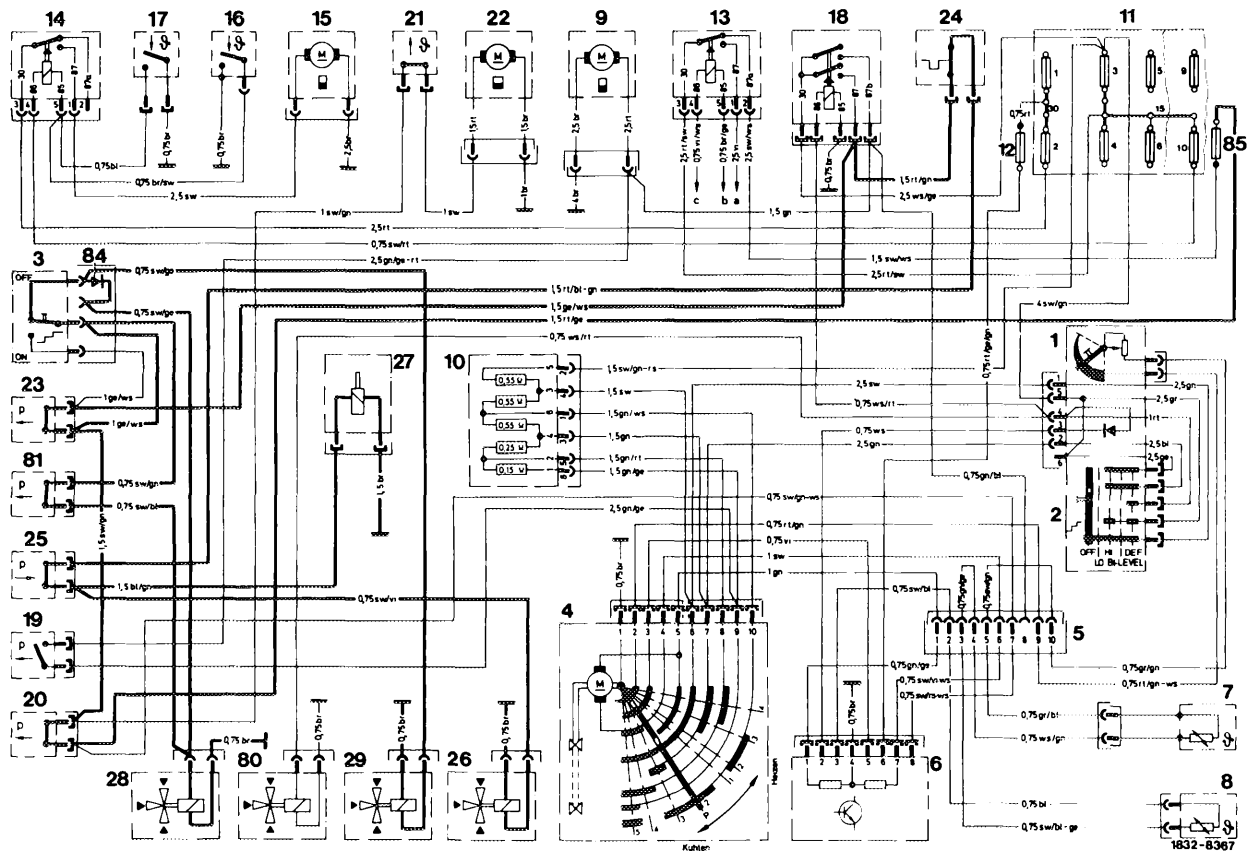
- | | |
|---|---|
| 1 Temperature dial | 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) |
| 2 Pushbutton switch | 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF |
| 3 "ON/OFF" switch refrigerant compressor | 22 Heating water pump |
| 4 Regulating valve | 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 5 10-point plug connection for tester | 24 ETR switch 2 °C (36 °F) |
| 6 Amplifier | 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu) |
| 7 In-car temperature sensor | 26 Switchover valve for constant speed (not on model 116.020/120) |
| 8 Ambient temperature sensor | 27 Electromagnetic clutch for refrigerant compressor |
| 9 Blower | 28 Switchover valve for vacuum element of legroom flaps |
| 10 Pre-resistance for blower | 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch |
| 11 Main fuse box
Fuse 2 : 16 amps
Fuse 3 : 16 amps
Fuse 10 : 16 amps | 80 Switchover valve "BI-LEVEL" (at "DEF") |
| 12 Additional fuse for amplifier (2 amps) | 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 13 Relay air conditioning system | 84 Diode |
| 14 Relay auxiliary fan | 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) |
| 15 Auxiliary fan | a Cable connector starter terminal 50 |
| 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan | b Starter lockout and back-up lamp switch |
| 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan | c Ignition starter switch terminal 50 |
| 18 Double contact relay | |
| 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) | |



Wiring diagram 8

Refrigerant compressor control at "BI-LEVEL" (switch 3 for refrigerant compressor at "ON")

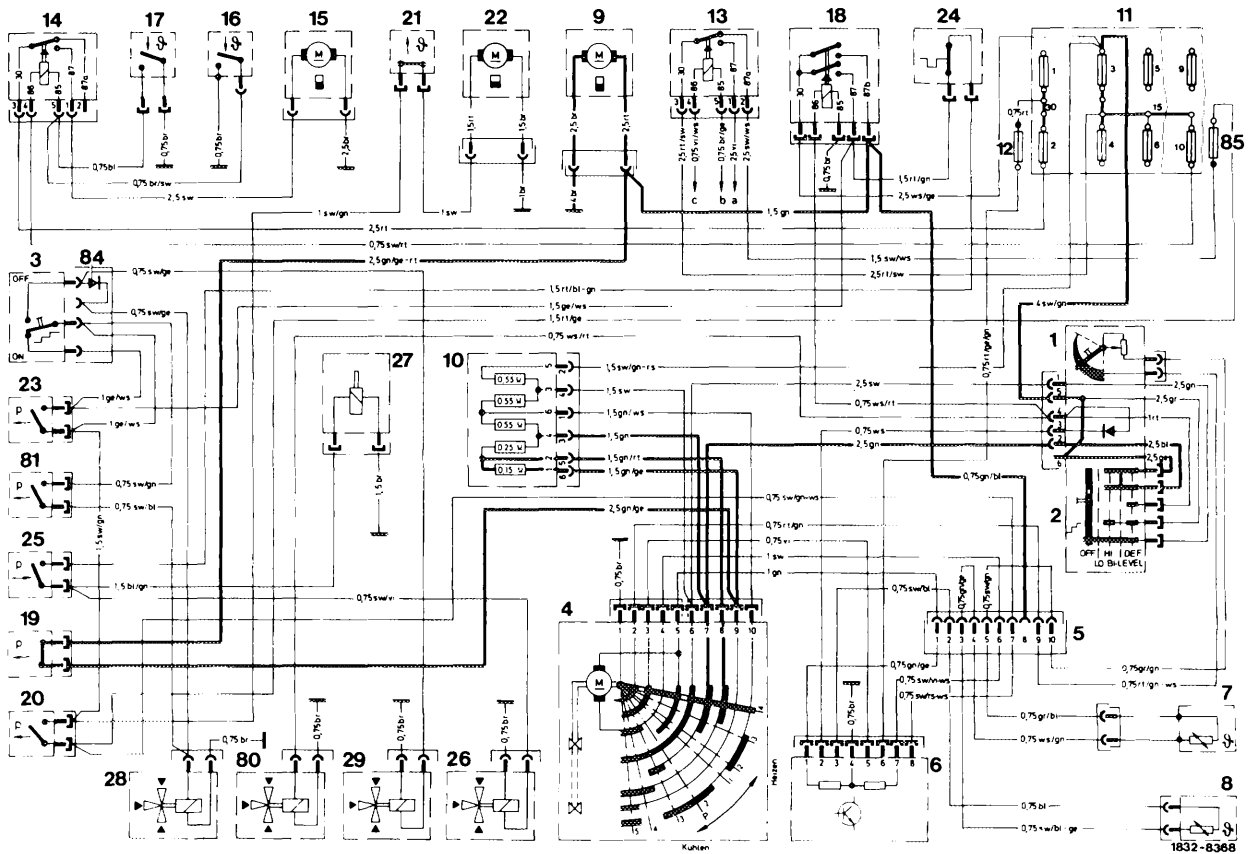
- | | |
|--|---|
| <p>1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 2 : 16 amps
 Fuse 3 : 16 amps
 Fuse 10 : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)</p> | <p>20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 24 ETR switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu)
 26 Switchover valve for constant speed (not on model 116.020/120)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
 30 Switchover valve "BI-LEVEL" (at "DEF")
 31 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 32 Diode
 33 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50</p> |
|--|---|



Wiring diagram 8 a

Refrigerant compressor control at "BI-LEVEL" (switch 3 for refrigerant compressor at "OFF")

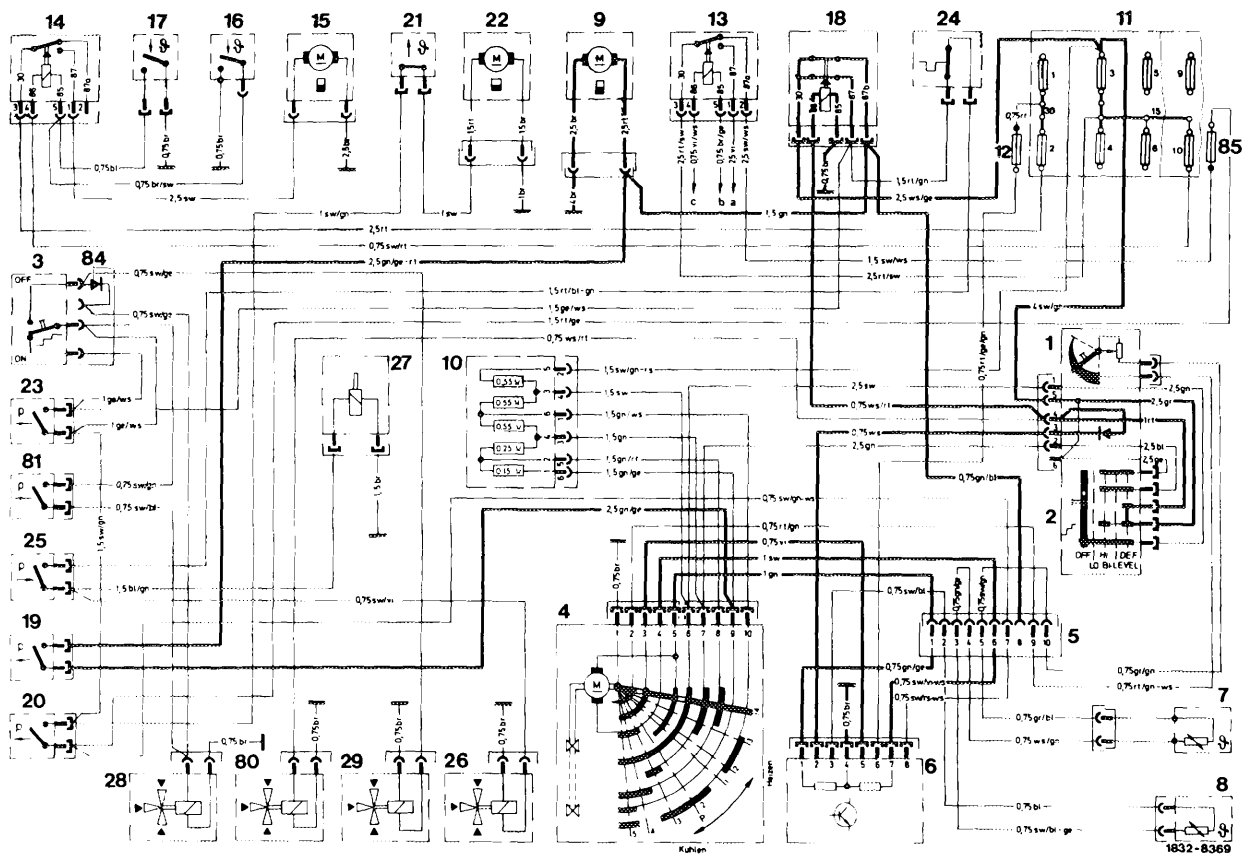
- | | |
|--|---|
| <p>1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 2 : 16 amps
 Fuse 3 : 16 amps
 Fuse 10 : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)</p> | <p>20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 24 ETR switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu)
 26 Switchover valve for constant speed (not on model 116.020/120)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
 80 Switchover valve "BI-LEVEL" (at "DEF")
 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 84 Diode
 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50</p> |
|--|---|



Wiring diagram 9

Blower control, stage 2 "BI-LEVEL" (Heat), (regulating valve in position 4)

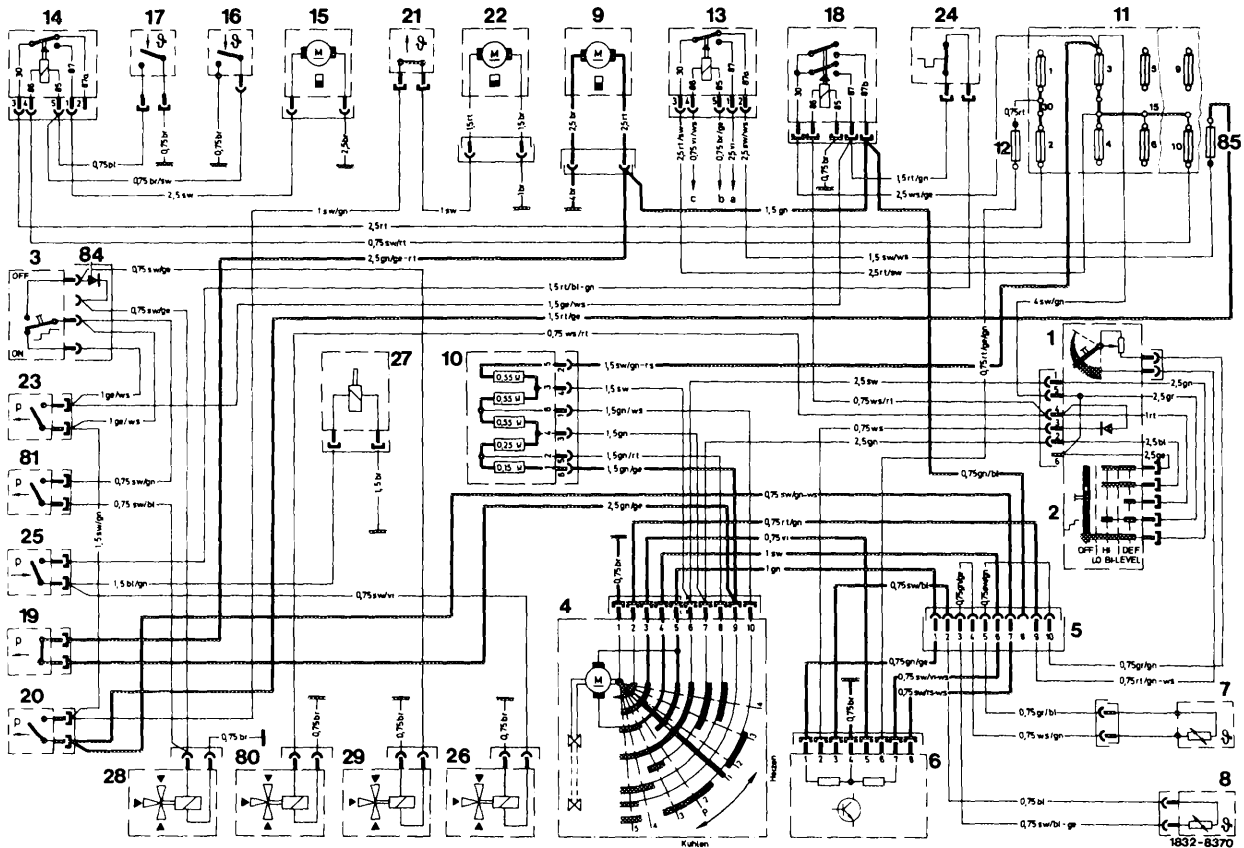
- | | |
|--|---|
| <p>1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 2 : 16 amps
 Fuse 3 : 16 amps
 Fuse 10 : 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)</p> | <p>20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22) 16 °C (62 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 24 ETR switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu)
 26 Switchover valve for constant speed (not on model 116.020/120)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
 30 Switchover valve "BI-LEVEL" (at "DEF")
 31 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 32 Diode
 33 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50</p> |
|--|---|



Wiring diagram 10

Blower control, stage 4 "DEF" (regulating valve in position 4)

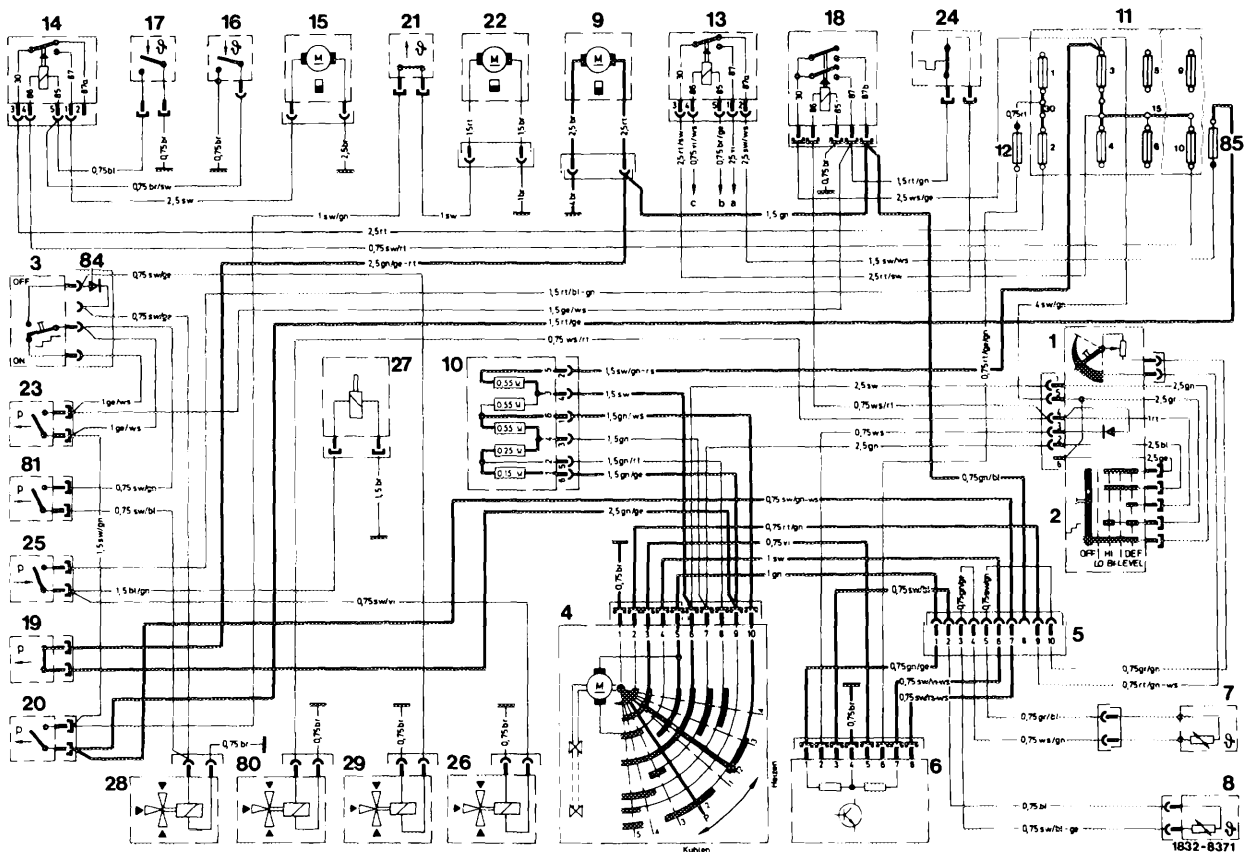
- | | |
|--|--|
| <ol style="list-style-type: none"> 1 Temperature dial 2 Pushbutton switch 3 "ON/OFF" switch refrigerant compressor 4 Regulating valve 5 10-point plug connection for tester 6 Amplifier 7 In-car temperature sensor 8 Ambient temperature sensor 9 Blower 10 Pre-resistance for blower 11 Main fuse box
Fuse 2 : 16 amps
Fuse 3 : 16 amps
Fuse 10 : 16 amps 12 Additional fuse for amplifier (2 amps) 13 Relay air conditioning system 14 Relay auxiliary fan 15 Auxiliary fan 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan 18 Double contact relay 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) | <ol style="list-style-type: none"> 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF 22 Heating water pump 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) 24 ETR switch 2 °C (36 °F) 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu) 26 Switchover valve for constant speed (not on model 116.020/120) 27 Electromagnetic clutch for refrigerant compressor 28 Switchover valve for vacuum element of legroom flaps 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch 80 Switchover valve "BI-LEVEL" (at "DEF") 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) 84 Diode 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) <p>a Cable connector starter terminal 50
b Starter lockout and back-up lamp switch
c Ignition starter switch terminal 50</p> |
|--|--|



Wiring diagramm 11

Blower control, stage 1 "LO" (regulating valve in position 1)

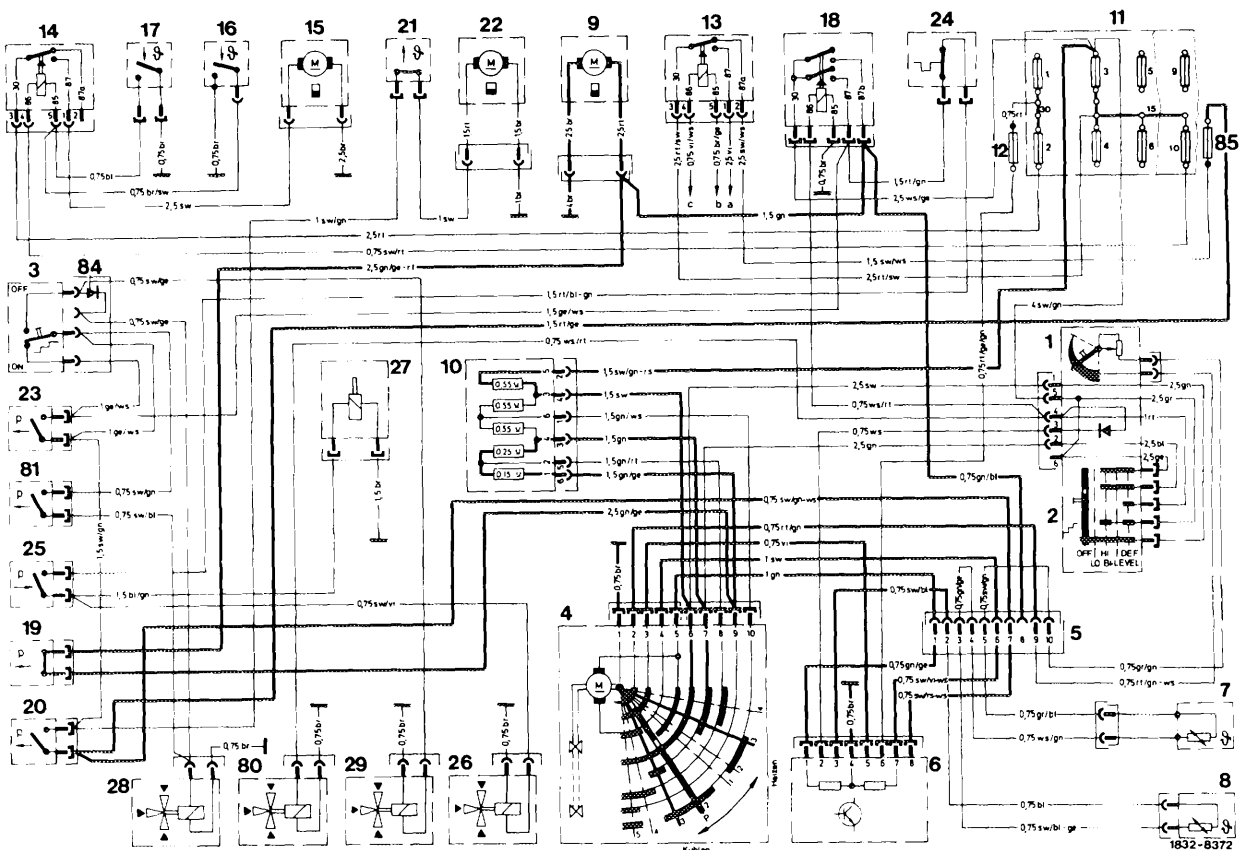
- | | |
|---|---|
| <p>1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 2: 16 amps
 Fuse 3: 16 amps
 Fuse 10: 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)</p> | <p>20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 24 ETR switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu)
 26 Switchover valve for constant speed (not on model 116.020/120)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
 30 Switchover valve "BI-LEVEL" (at "DEF")
 31 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 32 Diode
 33 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50</p> |
|---|---|



Wiring diagram 12

Blower control, stage 2 "LO" (regulating valve in position 2)

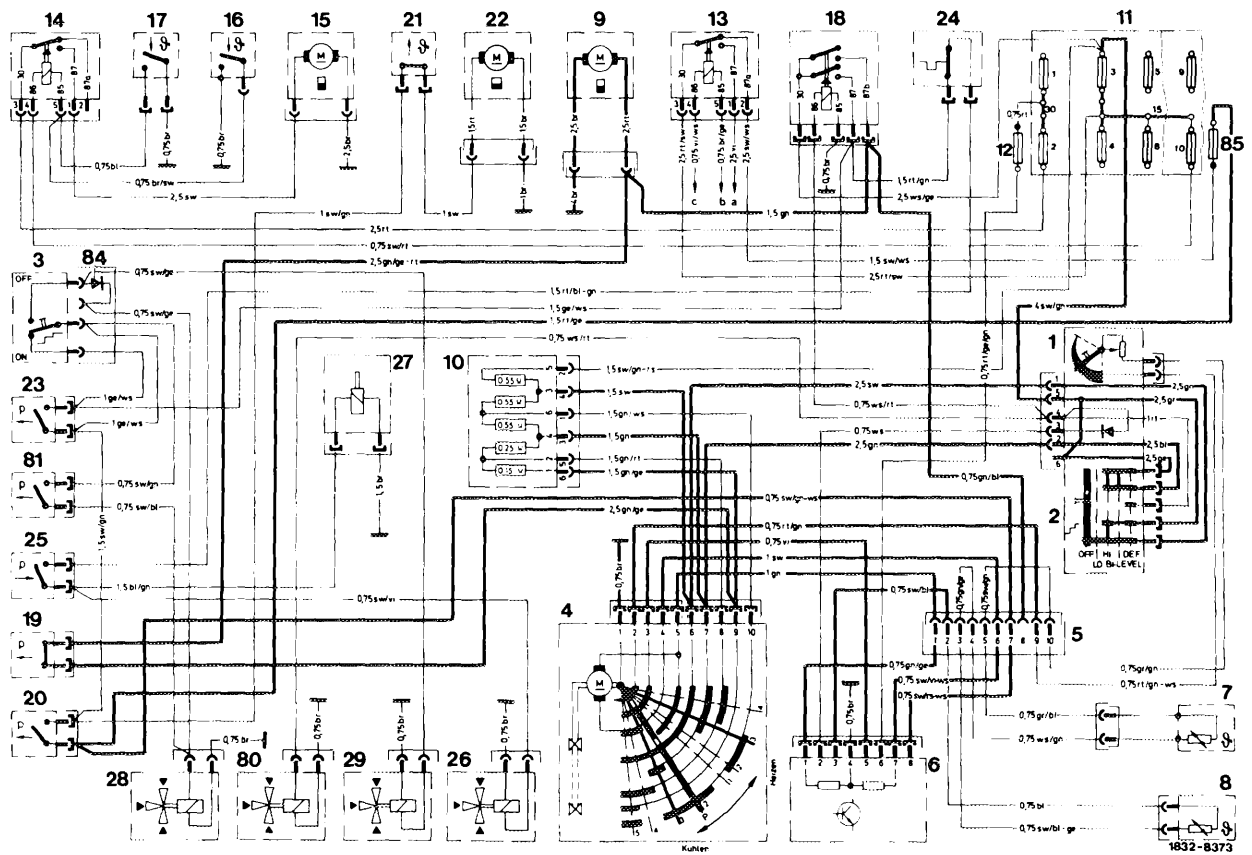
- | | | | |
|----|--|----|--|
| 1 | Temperature dial | 20 | Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) |
| 2 | Pushbutton switch | 21 | Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF |
| 3 | "ON/OFF" switch refrigerant compressor | 22 | Heating water pump |
| 4 | Regulating valve | 23 | Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 5 | 10-point plug connection for tester | 24 | ETR switch 2 °C (36 °F) |
| 6 | Amplifier | 25 | Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu) |
| 7 | In-car temperature sensor | 26 | Switchover valve for constant speed (not on model 116.020/120) |
| 8 | Ambient temperature sensor | 27 | Electromagnetic clutch for refrigerant compressor |
| 9 | Blower | 28 | Switchover valve for vacuum element of legroom flaps |
| 10 | Pre-resistance for blower | 29 | Switchover valve for vacuum element of fresh air - recirculating air changeover switch |
| 11 | Main fuse box
Fuse 2: 16 amps
Fuse 3: 16 amps
Fuse 10: 16 amps | 80 | Switchover valve "BI-LEVEL" (at "DEF") |
| 12 | Additional fuse for amplifier (2 amps) | 81 | Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 13 | Relay air conditioning system | 84 | Diode |
| 14 | Relay auxiliary fan | 85 | Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) |
| 15 | Auxiliary fan | a | Cable connector starter terminal 50 |
| 16 | Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan | b | Starter lockout and back-up lamp switch |
| 17 | Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan | c | Ignition starter switch terminal 50 |
| 18 | Double contact relay | | |
| 19 | Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) | | |



Wiring diagram 13

Blower control, stage 3 "LO" (regulating valve in position 3)

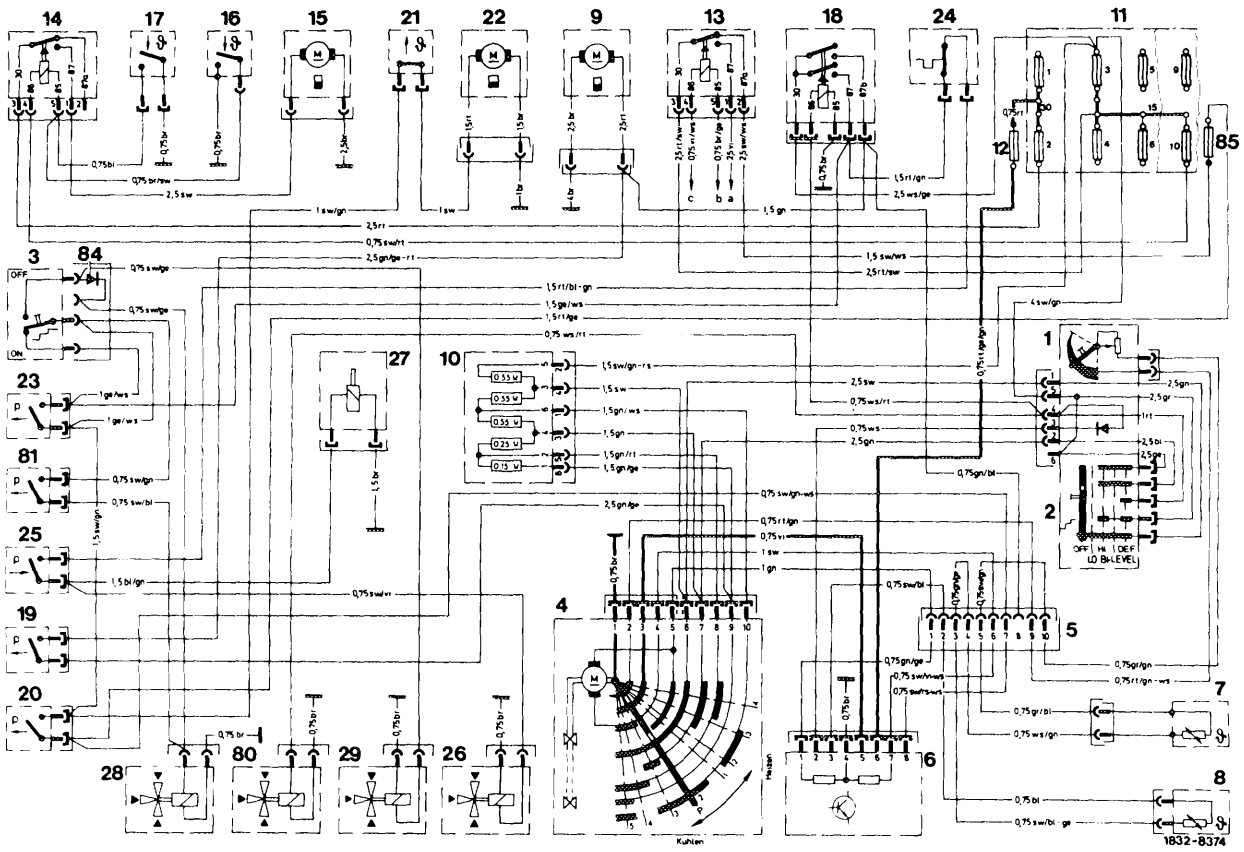
- | | |
|---|---|
| <p>1 Temperature dial
 2 Pushbutton switch
 3 "ON/OFF" switch refrigerant compressor
 4 Regulating valve
 5 10-point plug connection for tester
 6 Amplifier
 7 In-car temperature sensor
 8 Ambient temperature sensor
 9 Blower
 10 Pre-resistance for blower
 11 Main fuse box
 Fuse 2: 16 amps
 Fuse 3: 16 amps
 Fuse 10: 16 amps
 12 Additional fuse for amplifier (2 amps)
 13 Relay air conditioning system
 14 Relay auxiliary fan
 15 Auxiliary fan
 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
 18 Double contact relay
 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)</p> | <p>20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
 21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
 22 Heating water pump
 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 24 ETR switch 2 °C (36 °F)
 25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu)
 26 Switchover valve for constant speed (not on model 116.020/120)
 27 Electromagnetic clutch for refrigerant compressor
 28 Switchover valve for vacuum element of legroom flaps
 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
 80 Switchover valve "BI-LEVEL" (at "DEF")
 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
 84 Diode
 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
 a Cable connector starter terminal 50
 b Starter lockout and back-up lamp switch
 c Ignition starter switch terminal 50</p> |
|---|---|



Wiring diagram 14

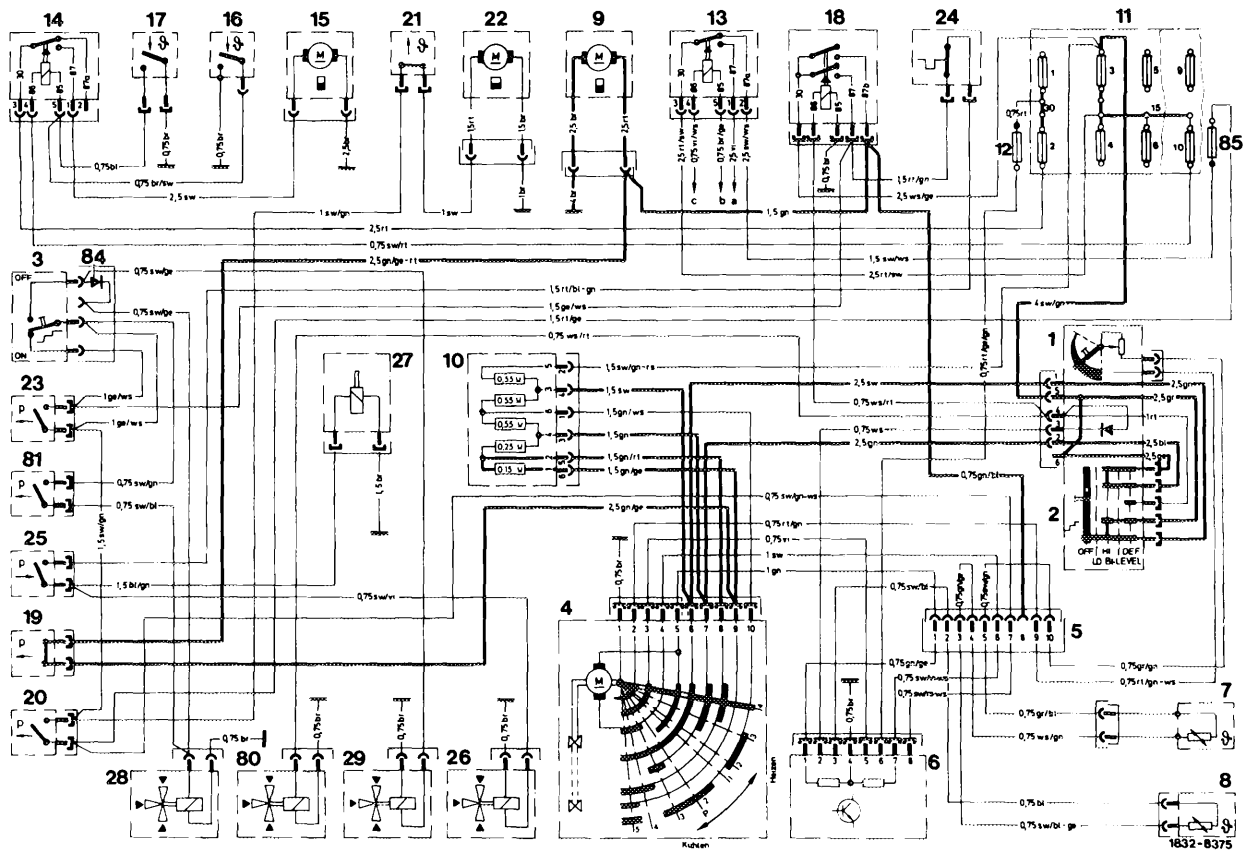
Blower control, stage 1 "HI" and "BI-LEVEL" (regulating valve in position 3 "heating" up to position 3 "cooling")

- | | | | |
|----|--|----|--|
| 1 | Temperature dial | 20 | Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) |
| 2 | Pushbutton switch | 21 | Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF |
| 3 | "ON/OFF" switch refrigerant compressor | 22 | Heating water pump |
| 4 | Regulating valve | 23 | Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 5 | 10-point plug connection for tester | 24 | ETR switch 2 °C (36 °F) |
| 6 | Amplifier | 25 | Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu), OFF 2.0 bar gauge pressure (2.0 atu) |
| 7 | In-car temperature sensor | 26 | Switchover valve for constant speed (not on model 116.020/120) |
| 8 | Ambient temperature sensor | 27 | Electromagnetic clutch for refrigerant compressor |
| 9 | Blower | 28 | Switchover valve for vacuum element of legroom flaps |
| 10 | Pre-resistance for blower | 29 | Switchover valve for vacuum element of fresh air-recirculating air changeover switch |
| 11 | Main fuse box
Fuse 2: 16 amps
Fuse 3: 16 amps
Fuse 10: 16 amps | 80 | Switchover valve "BI-LEVEL" (at "DEF") |
| 12 | Additional fuse for amplifier (2 amps) | 81 | Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) |
| 13 | Relay air conditioning system | 84 | Diode |
| 14 | Relay auxiliary fan | 85 | Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) |
| 15 | Auxiliary fan | a | Cable connector starter terminal 50 |
| 16 | Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan | b | Staeter lockout and back-up lamp switch |
| 17 | Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan | c | Ignition starter switch terminal 50 |
| 18 | Double contact relay | | |
| 19 | Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) | | |



Wiring diagram 15
Regulating valve control (ignition off, regulating valve in position "P 2")

- | | |
|---|--|
| <ul style="list-style-type: none"> 1 Temperature dial 2 Pushbutton switch 3 "ON/OFF" switch refrigerant compressor 4 Regulating valve 5 10-point plug connection for tester 6 Amplifier 7 In-car temperature sensor 8 Ambient temperature sensor 9 Blower 10 Pre-resistance for blower 11 Main fuse box
Fuse 2: 16 amps
Fuse 3: 16 amps
Fuse 10: 16 amps 12 Additional fuse for amplifier (2 amps) 13 Relay air conditioning system 14 Relay auxiliary fan 15 Auxiliary fan 16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan 17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan 18 Double contact relay 19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu) | <ul style="list-style-type: none"> 20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu) 21 Temperature switch for heating water pump (22)
16 °C (61 °F) ON, 26 °C (79 °F) OFF 22 Heating water pump 23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) 24 ETR switch 2 °C (36 °F) 25 Pressure switch refrigerant compressor
ON 2.6 bar gauge pressure (2.6 atu),
OFF 2.0 bar gauge pressure (2.0 atu) 26 Switchover valve for constant speed (not on model 116.020/120) 27 Electromagnetic clutch for refrigerant compressor 28 Switchover valve for vacuum element of legroom flaps 29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch 80 Switchover valve "BI-LEVEL" (at "DEF") 81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only) 84 Diode 85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9) <ul style="list-style-type: none"> a Cable connector starter terminal 50 b Starter lockout and back-up lamp switch c Ignition starter switch terminal 50 |
|---|--|



Wiring diagram 16
Blower control, stage 2 "HI" (regulating valve in position 4)

- | | |
|--|--|
| <p>1 Temperature dial
2 Pushbutton switch
3 "ON/OFF" switch refrigerant compressor
4 Regulating valve
5 10-point plug connection for tester
6 Amplifier
7 In-car temperature sensor
8 Ambient temperature sensor
9 Blower
10 Pre-resistance for blower
11 Main fuse box
Fuse 2: 16 amps
Fuse 3: 16 amps
Fuse 10: 16 amps
12 Additional fuse for amplifier (2 amps)
13 Relay air conditioning system
14 Relay auxiliary fan
15 Auxiliary fan
16 Temperature switch 100 °C (212 °F) thermostat housing for auxiliary fan
17 Temperature switch 62 °C (142 °F) in receiver dehydrator for auxiliary fan
18 Double contact relay
19 Vacuum switch (main switch, closes with vacuum higher than 175 mbar or 0.18 atu)</p> | <p>20 Vacuum switch (refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu)
21 Temperature switch for heating water pump (22) 16 °C (61 °F) ON, 26 °C (79 °F) OFF
22 Heating water pump
23 Vacuum switch (for refrigerant compressor, closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
24 ETR switch 2 °C (36 °F)
25 Pressure switch refrigerant compressor ON 2.6 bar gauge pressure (2.6 atu) OFF 2.0 bar gauge pressure (2.0 atu)
26 Switchover valve for constant speed (not on model 116.020/120)
27 Electromagnetic clutch for refrigerant compressor
28 Switchover valve for vacuum element of legroom flaps
29 Switchover valve for vacuum element of fresh air-recirculating air changeover switch
80 Switchover valve "BI-LEVEL" (at "DEF")
81 Vacuum switch (closes with vacuum higher than 78.5 mbar or 0.08 atu, at "BI-LEVEL" only)
84 Diode
85 Additional fuse (5 amps) for heating water pump, refrigerant compressor and amplifier (USA version fuse 9)
a Cable connector starter terminal 50
b Starter lockout and back-up lamp switch
c Ignition starter switch terminal 50</p> |
|--|--|