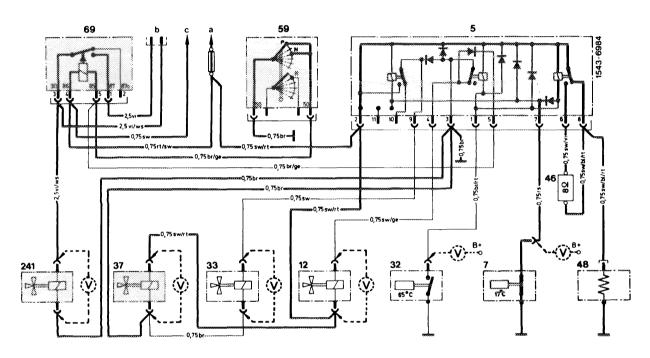
# A. ① 1976

Test conditions:

All fuses in order, engine at operating temperature, run engine at idle.

Wiring diagram (drawn with ignition switched off below 17 °C engine oil temperature)

Choke cover-stepped heater, automatic choke, positive and negative venting of float chamber



- Relay box
- Temperature switch 17 °C
- Switchover valve EGR (brown)
- Temperature switch 65 °C
- 33 Switchover valve air injection (blue)
- Switchover valve float chamber positive ventilation (green) Resistor 8 ohms
- Choke cover
- Starter lockout and back-up lamp switch
- Switchover valve automatic choke

(white)

#### Color code

bl = blue

rs = pink

vi = purple

br = brown

rt = red

ws = white

ge = yellow

sw = black

a Fuse no. 4

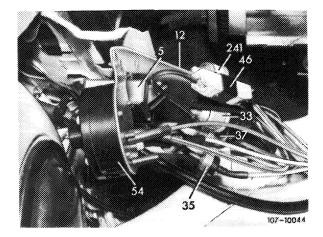
b Coupler to main conductor Cable color purple - starter terminal 50 Cable color purple/white - starter switch terminal 50

c Warning switch catalyst temperature

Connect voltmeter at output of resistor (46) and connect to ground. Disconnect plug connection of electric line to temperature switch 17 °C (7) and connect to ground.

Voltmeter indicating 7—8 volts.

Voltmeter not indicating 7–8 volts.

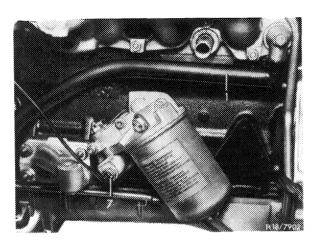


## Test relay box (5)

Connect voltmeter at input of resistor (46) and to ground.

Connect plug connection of temperature switch (7) to ground. Voltmeter should indicate 7—8 volts.

If no voltage is measured, renew relay box (5).



## Testing choke cover-stepped heater

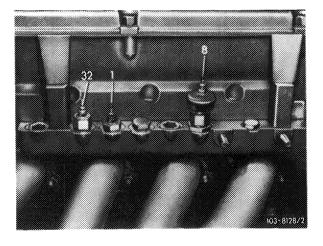
Connect voltmeter at output of resistor (46) and to ground.

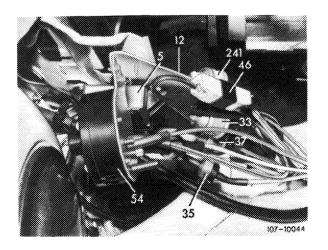
Pull plug from temperature switch 65 °C.

Voltmeter indicating approx. 12 volts.

Voltmeter not indicating approx. 12 volts.

Renew relay box (5).





# B. (§) 1976

Test conditions:

All fuses in order, engine at operating temperature, run engine at idle.

Wiring diagram (drawn with ignition switched off, below 17 °C engine oil temperature)

#### Choke cover-stepped heater, EGR

#### Color code

bl = blue

pink

vi = purple

br = brown

rt = red

ws = white

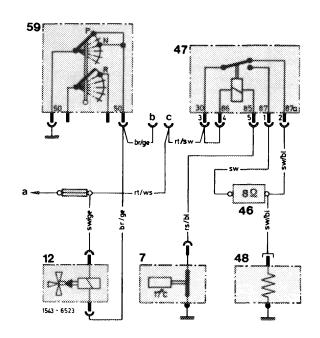
ge = yellow

sw = black

- a Fuse no. 3 (15/54)
- b Relay starter terminal 85
- c Relay starter terminal 86

  - Temperature switch 17 °C Switchover valve EGR (brown) Pre-resistor 8 ohms

  - Relay pre-resistor choke cover
  - 48 Choke cover
  - Starter lockout and back-up light switch



#### Testing choke cover-stepped heater

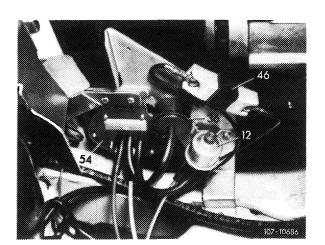
Connect voltmeter to output of resistor (46) and to ground. Disconnect plug connection of electric line to temperature switch 17 °C (7) and connect to ground.

Voltmeter indicating 7-8 volts.

Voltmeter not indicating 7-8 volts.

#### Test relay pre-resistor choke cover (47)

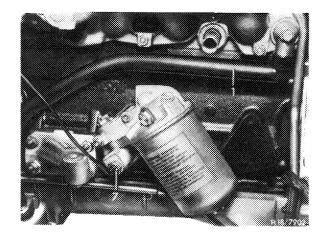
Connect voltmeter one after the other to both connections of pre-resistor choke cover (46) and to ground.



Connect plug connection of temperature switch 17 °C (7) to ground. Voltmeter should indicate approx. 7–8 volts once.

If no voltage of 12 volts is measured, test choke cover.

If less than 7—8 volts are measured, test pre-resistor or renew relay.



#### Testing choke cover-stepped heater

Connect voltmeter to output of resistor (46) and to ground.

Pull plug from temperature switch 65 °C.

Voltmeter indicating approx. 12 volts.

Voltmeter not indicating approx. 12 volts.

If less than 7–8 volts are measured, test pre-resistor or replace relay.

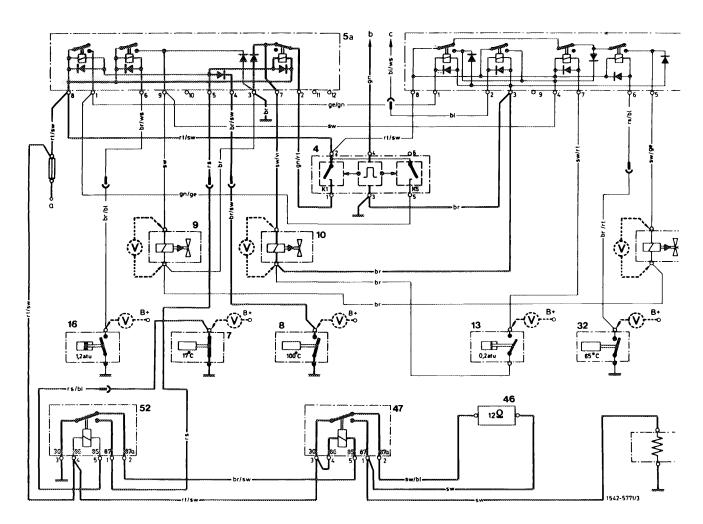
#### C. USA 1973/74

Test conditions:

All fuses in order, engine at operating temperature, run engine at idle.

Wiring diagram (drawn with ignition switched off, below 17 °C engine oil temperature)

#### Choke cover-stepped heater, throttle valve lift



- Rpm relay with 2 speeds 1800/2000/min and 3000/3400/min
- Relay box (8-pole)
- Relay box (12-pole)
- 7 Temperature switch 17 °C 8 Temperature switch 100 °C
- 9 Switchover valve ignition
- Switchover valve throttle valve lift
- Switchover valve EGR
- 13 Vacuum switch 0.2 bar
- Oil pressure switch 1.2 bar Temperature switch 65 °C 16 32
- 46 Resistor choke cover
- Relay resistor choke cover
- Choke cover
  Relay temperature switch 17 °C

#### Color code

bl = blue

gn = green

sw = black

a Fuse no. 3

br = brown

rs = pink

vi = purple

b Double cable connector terminal 1 ZV c Relay air conditioner terminal 87a

ge = yellow

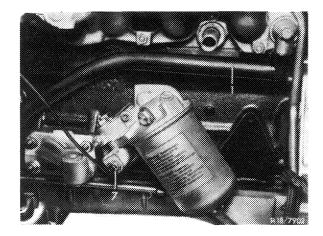
rt = red

ws = white

Disconnect plug connection of electric line to temperature switch 17 °C (7) in oil filter housing and connect to ground.

Relax (47 and 52) audibly switching.

Relay (47 and 52) not switching.

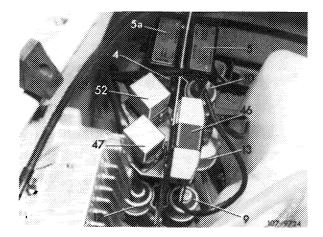


# Test relay for resistor of choke cover (47) (front relay, short cable)

Connect voltmeter to output of resistor (46) and to ground. With the ignition switched on, the voltmeter should indicate approx. 13 volts. If there is no voltage, renew relay (47).

Loosen plug connection of electric line to temperature switch 17 °C and connect to ground. Voltmeter should indicate approx. 5 volts. If there is no voltage, renew resistor.

If approx. 13 volts are measured, exchange choke cover on carburetor and repeat test.



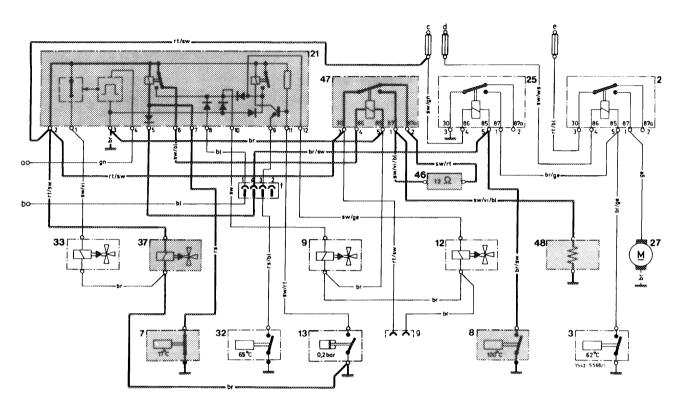
# D. USA 1974 California

Test conditions:

All fuses in order, engine at operating temperature, run engine at idle.

Wiring diagram (drawn with ignition switched off, below 17 °C engine oil temperature)

#### Choke cover-stepped heater, fuel evaporation control system



- Temperature switch 62 °C Temperature switch 17 °C
- Temperature switch 100 °C
- Switchover valve ignition Switchover valve EGR
- 13 Vacuum switch
- Switchbox
- 25 Relay disconnection temperature switch 62 °C/100 °C Relay auxiliary fan
- Auxiliary fan
- Temperature switch 65 °C
- Switchover valve air injection
- Switchover valve fuel evaporation control system Resistor choke cover
- Relay resistor choke cover

a To two-point cable connector terminal 7 (TD)

48 Choke cover

#### Color code

bl = blue

gn = green

sw = black

vi = purple

br = brownge = yellow rs = pink rt = red

ws = white

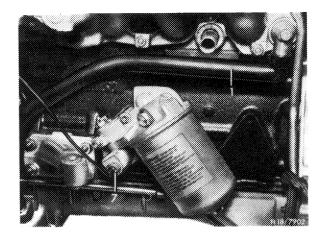
b Switch air conditioning system

- c Fuse no. 3 (15/54)
- d Fuse no. 4 (15/54)
- e Auxiliary fuse box for auxiliary fan
- f 4-point plug on relay holder
- g 2-point coupler, tied-up

Disconnect plug connection of electric line to temperature switch 17 °C (7) in oil filter housing and connect to ground.

Relay (47) audibly switching.

Relay (47) not switching.



#### Test relay in switchbox (21)

Pull coupler from relay for resistor of automatic choke and connect voltmeter to terminal 1 and 3. Loosen plug connection of electric line to temperature switch (7) and connect to ground.

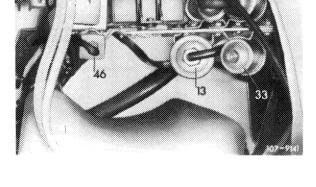
With the ignition switched on, the voltmeter should indicate approx. 13 volts. If no voltage is measured, renew switchbox (21).



Connect voltmeter to output of resistor (46, upper connection) and to ground. With the ignition switched on, the voltmeter should indicate approx. 13 volts. If no voltage is measured, renew relay (47).

Loosen plug connection of electric line to temperature switch (7) and connect to ground. Voltmeter should indicate approx. 5 volts. If no voltage is measured, renew resistor.

If approx. 13 volts are measured, exchange choke cover on carburetor.



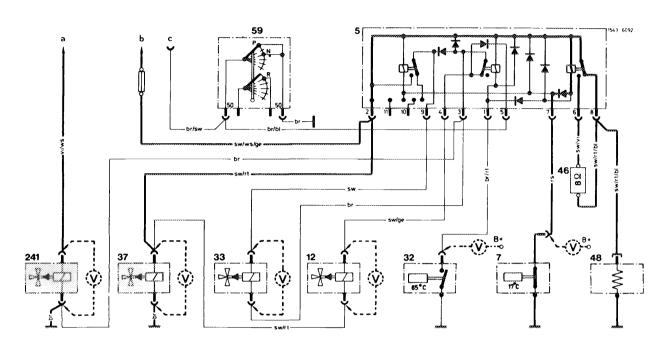
# E. USA 1975/76

Test conditions:

All fuses in order, engine at operating temperature, run engine at idle.

Wiring diagram (drawn with ignition switched off, below 17 °C engine oil temperature)

## Choke cover-stepped heater, automatic choke, tank breather



- Relay box Temperature switch 17 °C
- Switchover valve EGR (brown)
  Temperature switch 65 °C

- Switchover valve air injection (blue) Switchover valve float chamber
- 37
  - positive vent (green) 46 Resistor 8 ohms
- 48
- Choke cover Starter lockout and back-up light switch 49
- 241 Switchover valve automatic choke

Color code

bl = blue

rs = pink

vi = purple

a Terminal 50 starter

ws = white

b Fuse no. 3

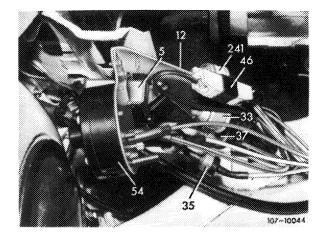
br = brownge = yellow rt = red sw = black

c Terminal 30 emergency starter switch

Connect voltmeter to output of resistor (46) and to ground. Disconnect plug connection of electric line to temperature switch 17 °C (7) and connect to ground.

Voltmeter indicating 7–8 volts.

Voltmeter not indicating 7–8 volts.

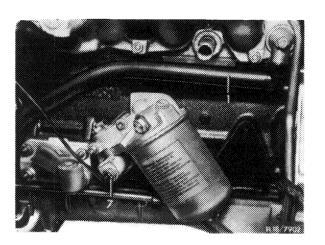


### Test relay box (5)

Connect voltmeter to input of resistor (46) and to ground.

Connect plug connection of temperature switch to ground. Voltmeter should indicate 7–8 volts.

If no voltage is measured, renew relay box (5).



#### Testing choke cover-stepped heater

Connect voltmeter to output of resistor (46) and to ground.

Pull plug from temperature switch 65 °C.

Voltmeter indicating approx. 12 volts.

Voltmeter not indicating approx. 12 volts.

Renew relay box (5).

