

How to use the Diagrams

Here you can see how the components are connected, and the circuit diagram.

List of components

All the circuits protected by the fuse are listed.

Fault tracing

Use a test lamp with a pointed probe to ensure good contact.

Colour code

SB = black
GR = grey
W = white
R = red

BN = brown
Y = yellow
P = pink
B = blue

GN = green
OR = orange
VO = violet



= without potential
= ground
= circuit potential
= potential lower than circuit potential
= current flow

TSZ-2 4 cyl. Ignition system

- | | | | |
|---|---------------------|---|------------------|
| A | Control unit | G | Connector |
| B | Ballast resistor | H | Connector |
| C | Ignition switch | J | Connector |
| D | Distribution switch | K | Connector |
| E | Ignition coil | L | Ground connector |
| F | Fusebox | | |

Fuse No. 12
Reversing (back-up) lights

Current flow during start

Current flows through control unit and ignition coil is energized

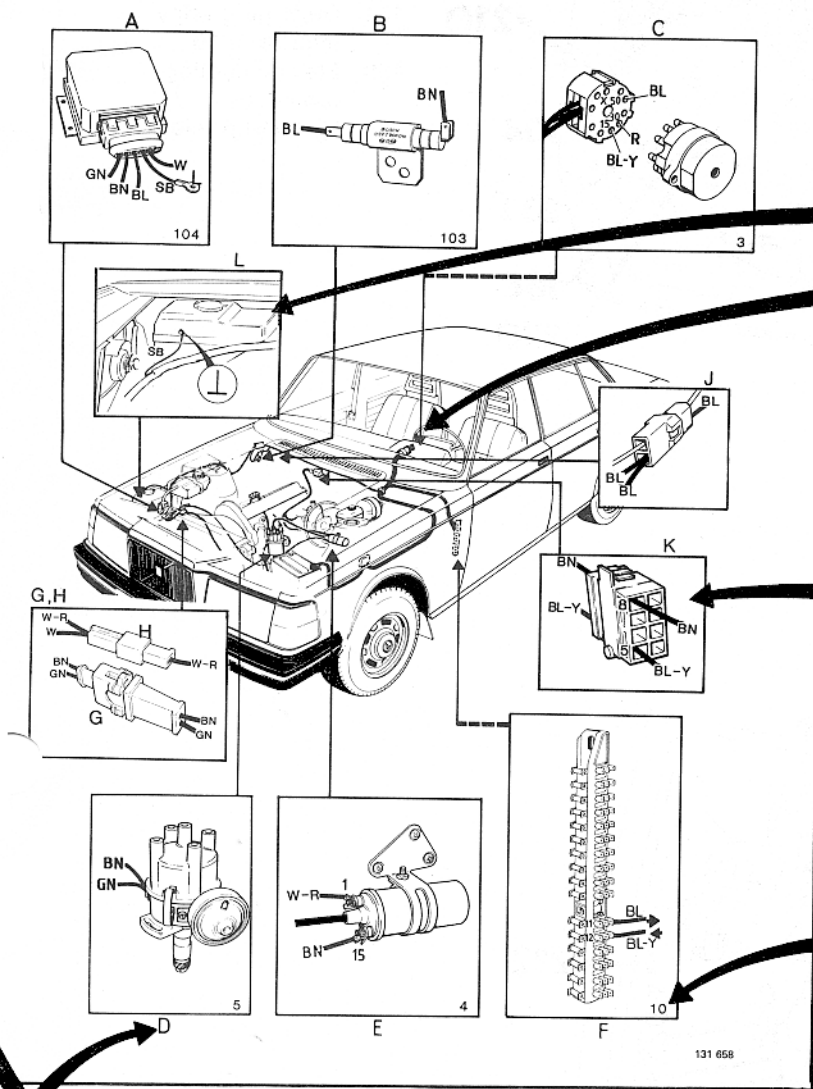
Control unit interrupts current flow and ignition coil discharges

Current flow when circuit is live

How to use the Diagrams

On the right hand side of the page you can see where the components are located and how the wires are routed.

TSZ-2 4 cyl. Ignition system



The symbol ⊥ indicates a hidden earth/ground connection.

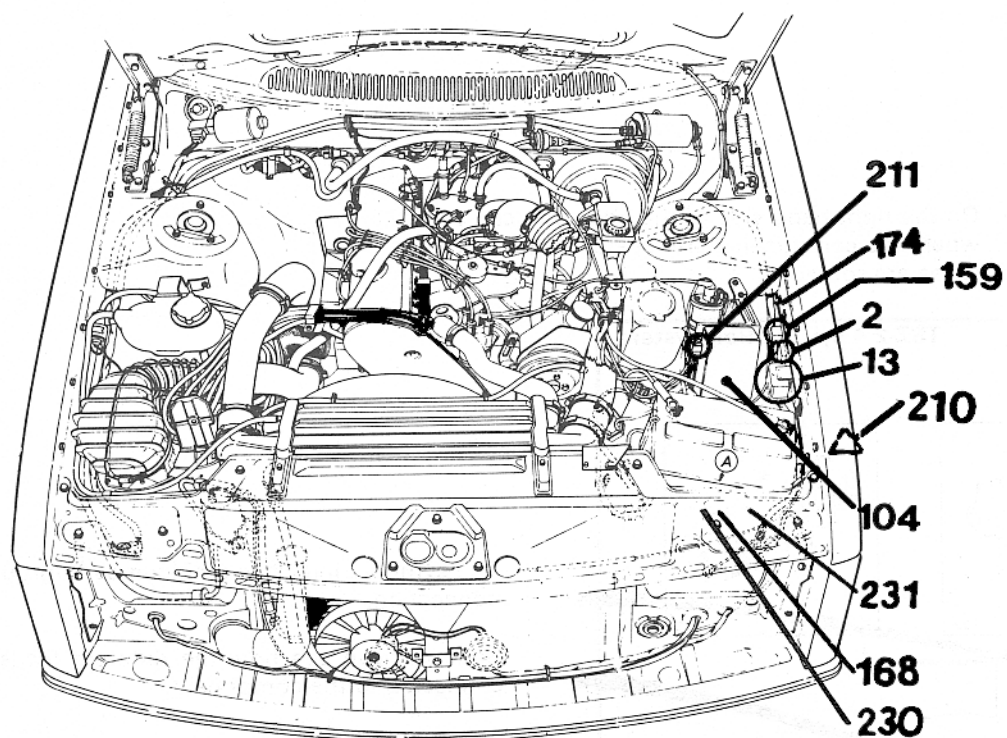
Here you can see how the different leads are connected to the component.

Connectors are also shown.

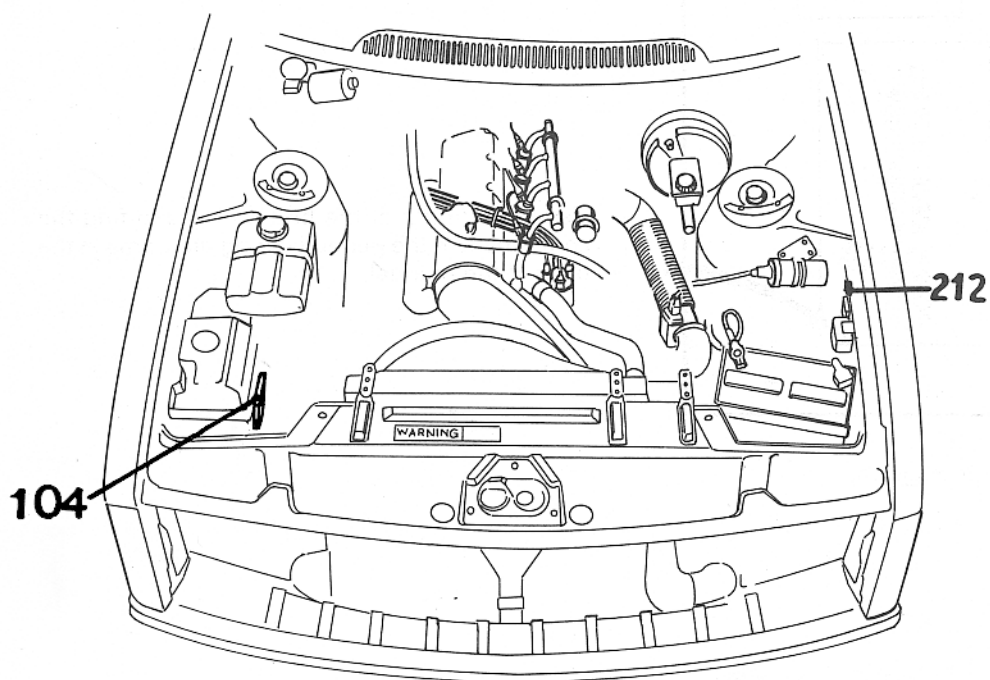
Use the number at the bottom right to find the component in the general wiring diagrams at the back of the manual.

Look for the letter when checking the circuit diagram.

Relays

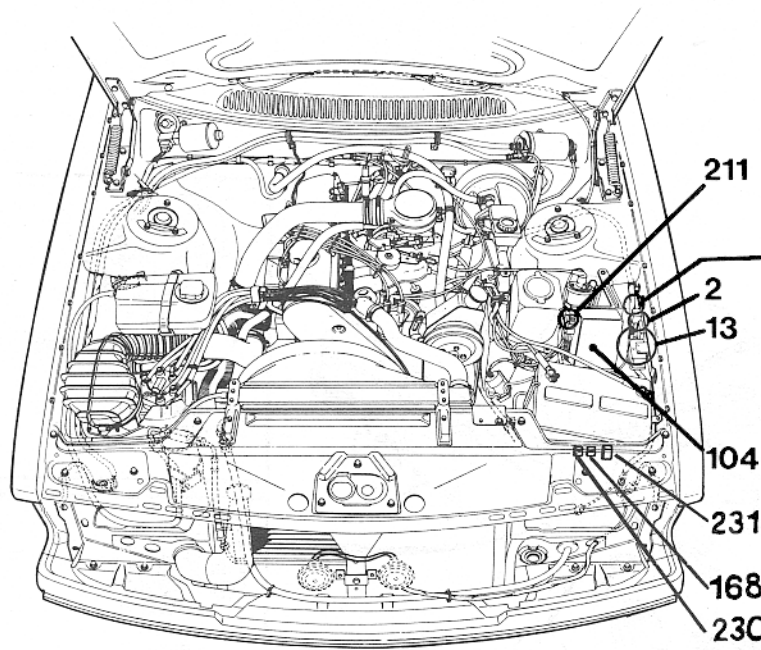


B 21FTL



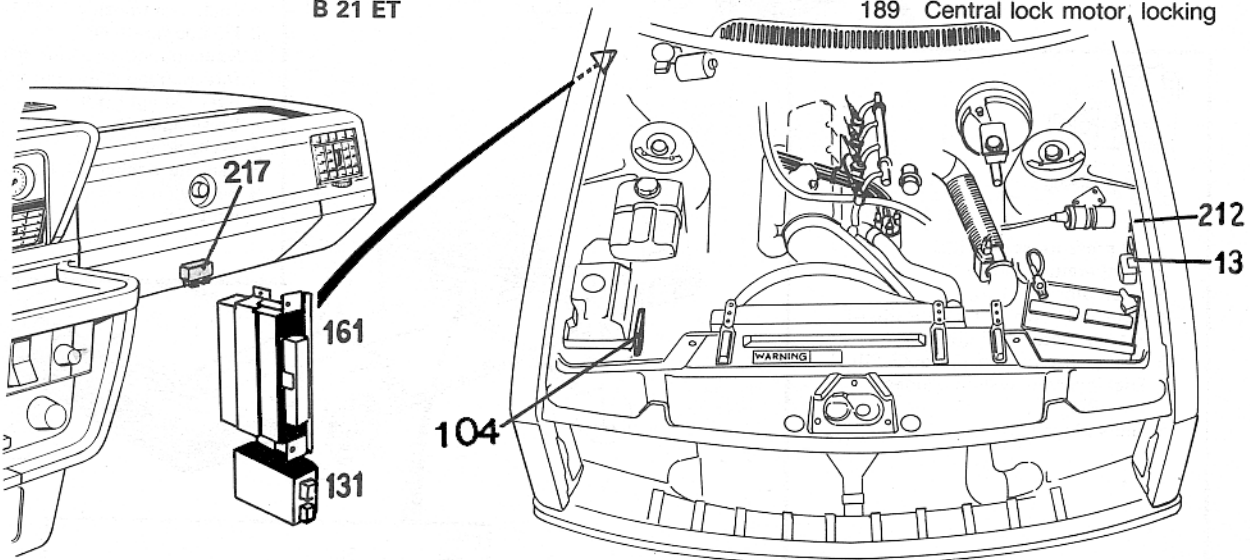
B 230F

Relays

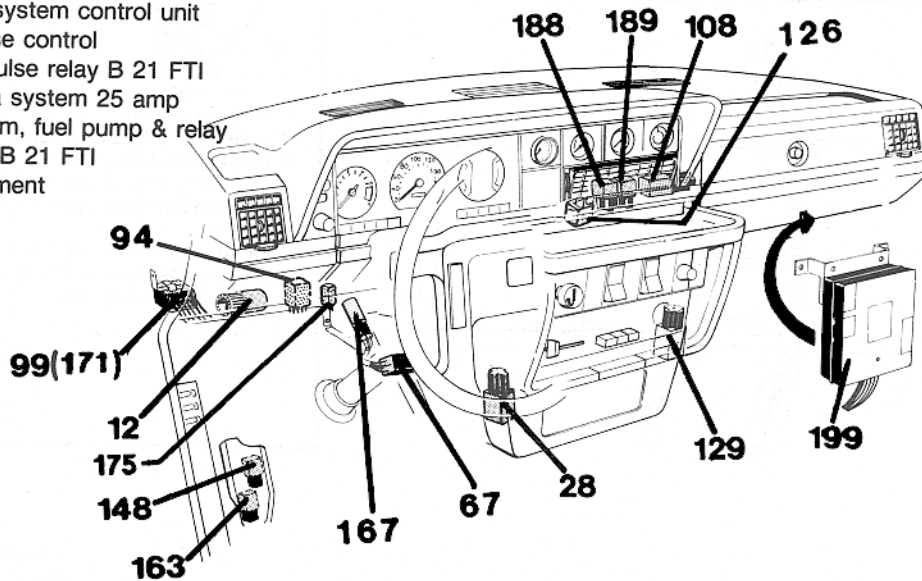


B 21 ET

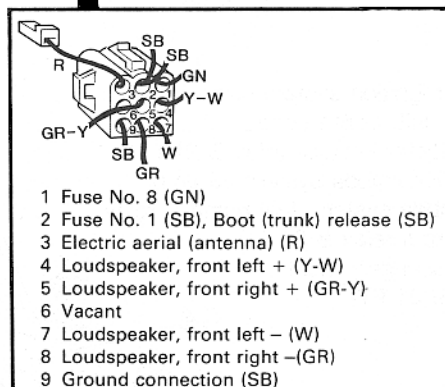
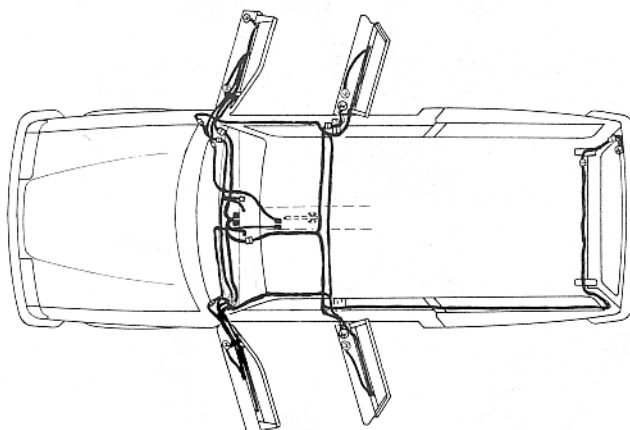
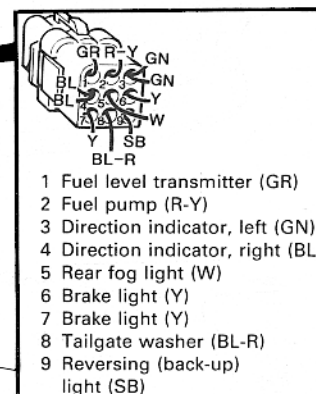
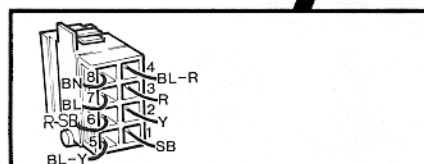
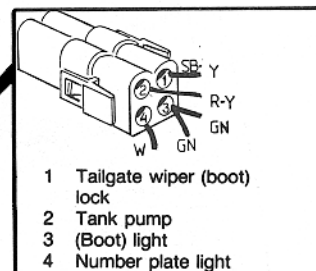
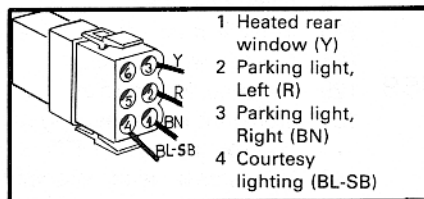
- 2 Junction box
- 12 Bulb failure warning sensor
- 13 Step relay for high/low beams
- 28 Relay for direction indicators
- 67 Warning buzzer
- 94 Fasten seat belt light
- 99 Fuel pump relay – B 21 FTI
- 104 Ignition system control unit
- 108 Overdrive relay
- 124 Temperature sensor relay, Japan
- 126 Electric window relay
- 129 Air conditioning relay
- 131 Constant idle speed (system relay) control unit – B 21 FTI
- 148 Windscreen wiper interval relay
- 159 Lambdasond relay – B 21 FTI
- 161 Control unit, Lambdasond system
- 163 Tailgate wiper interval relay
- 164 Control unit, preheating diesel
- 167 Relay, delayed courtesy light
- 168 Electric cooling fan relay
- 171 Shift indicator control unit
- 175 Time-delay relay, heated rear window (USA)
- 188 Central lock motor, unlocking
- 189 Central lock motor, locking



- 104 Chrysler ignition system control unit
- 199 Control unit, cruise control
- 211 Start injector impulse relay B 21 FTI
- 212 Fuse, LH-Lambda system 25 amp
- 217 LH-Lambda system, fuel pump & relay
- 230 Engine rpm relay B 21 FTI
- 231 Relay (disengagement of AC) B 21 FTI

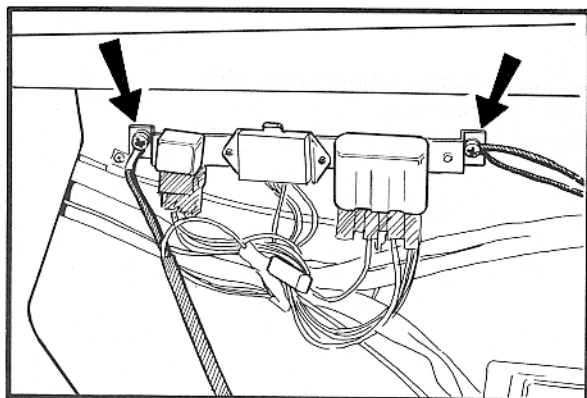


Cable harness and connectors



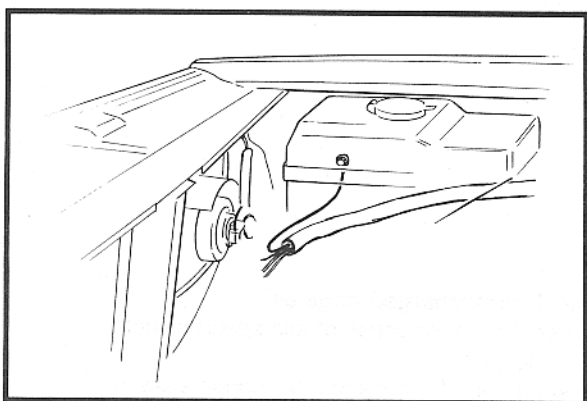
Ground connections

Shown below and on the following pages are the main ground connections and the components which they ground.



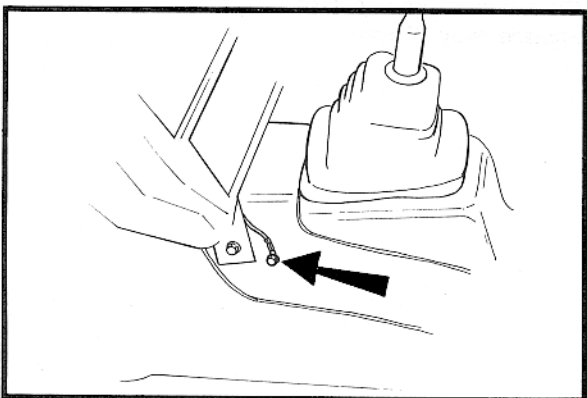
Relay panel on left side of engine compartment

- Left side main/dipped (high/low) beam
- Left direction indicator
- Left parking light
- Left day running light
- Washer motors for turbo and diesel models
- Ignition system control, turbo
- Relay for preheating circuit, diesel
- Ignition system control unit, TZ 28-H



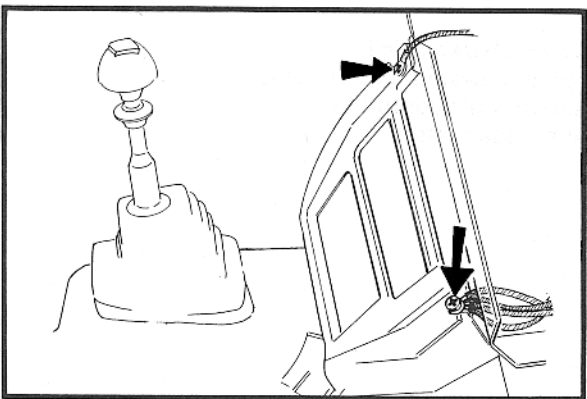
Wheelhousing, front right

- Right main/dipped (high/low) beam
- Right direction indicator
- Right parking light
- Ignition system control unit



Tunnel, next to gear lever

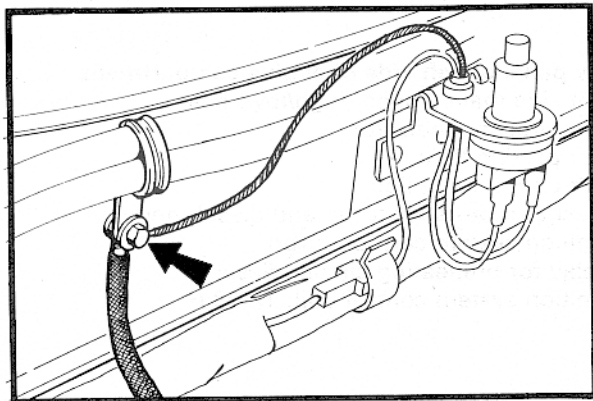
- Horn
- Seat belt light
- Combined instrument panel
- Fuel pump relay
- Control unit, diesel
- Flasher relay
- Switch, tailgate wiper
- Radio
- Steering column



Centre console

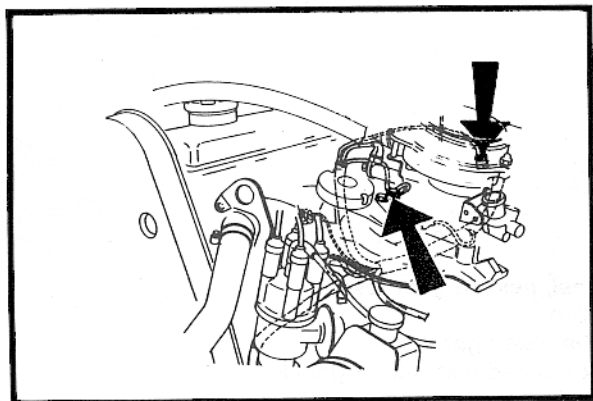
- Relay, air conditioning unit
- Relay, window (lifts)
- Relay, overdrive
- Relay, central locking system
- Relay, temperature sensor, Japan
- Heater fan, CU heater

Ground connections



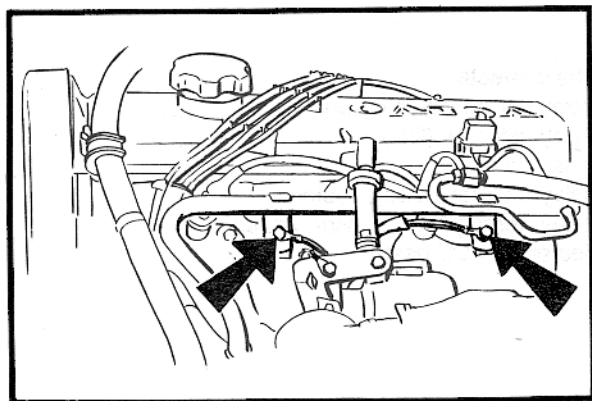
Bulkhead, engine compartment side

- Radio suppressors
- Charge air overpressure switch, F-Turbo



4-cyl. F-turbocharged engines

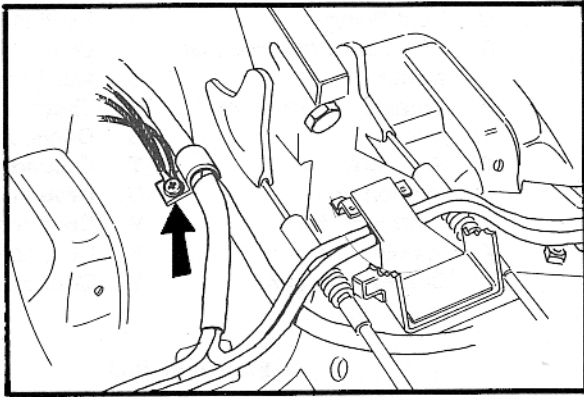
- Microswitch for constant idle speed system (F-engines)
- Control unit for constant idle speed system (F-engines)
- Control pressure regulator
- Impulse relay, Turbo



B 230 F LH-Jetronic II

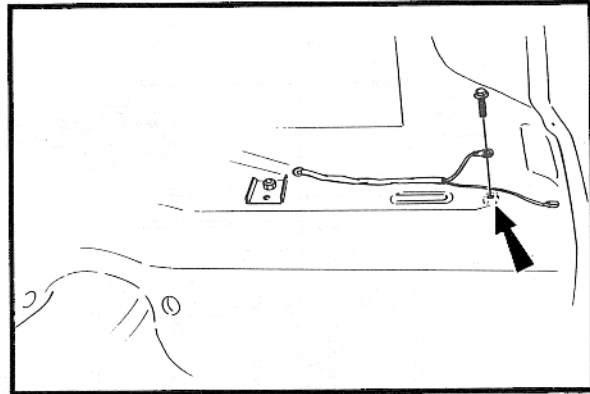
- Ignition system control unit
- LH-Jetronic control unit
- Air mass meter

Ground connections



Beneath front left seat

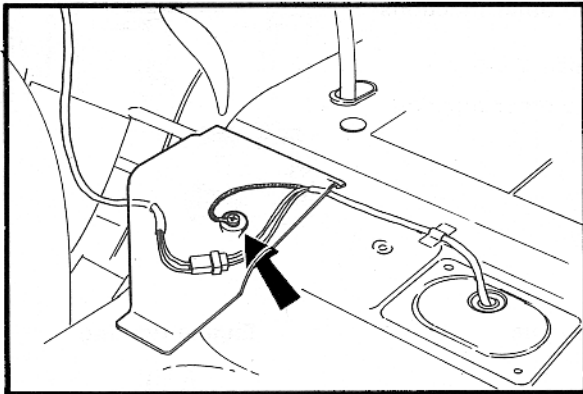
- Power door mirrors
- Heated seat



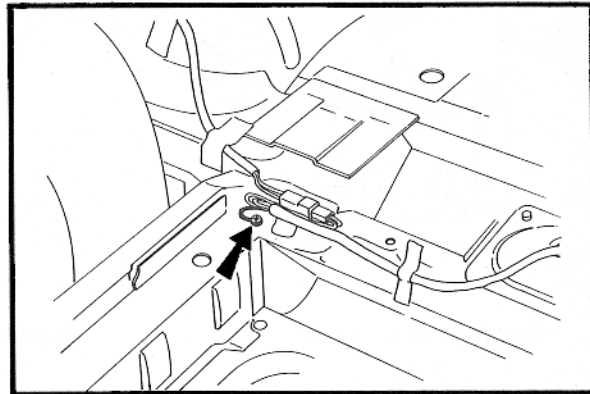
Beneath rear seat

- Fuel pump

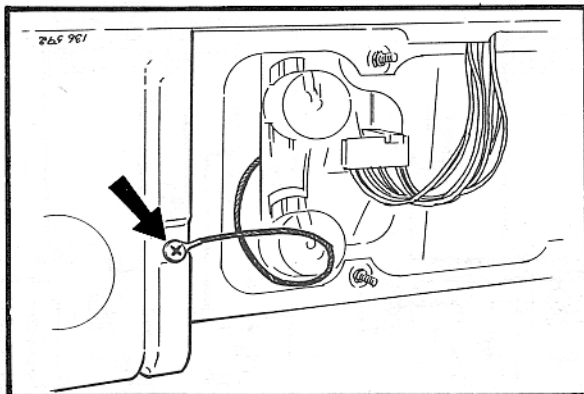
Ground connections in boot/trunk



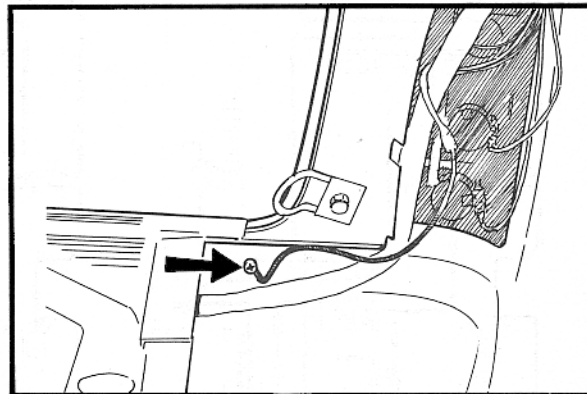
Tank pump 4-door models



Tank pump 5-door models



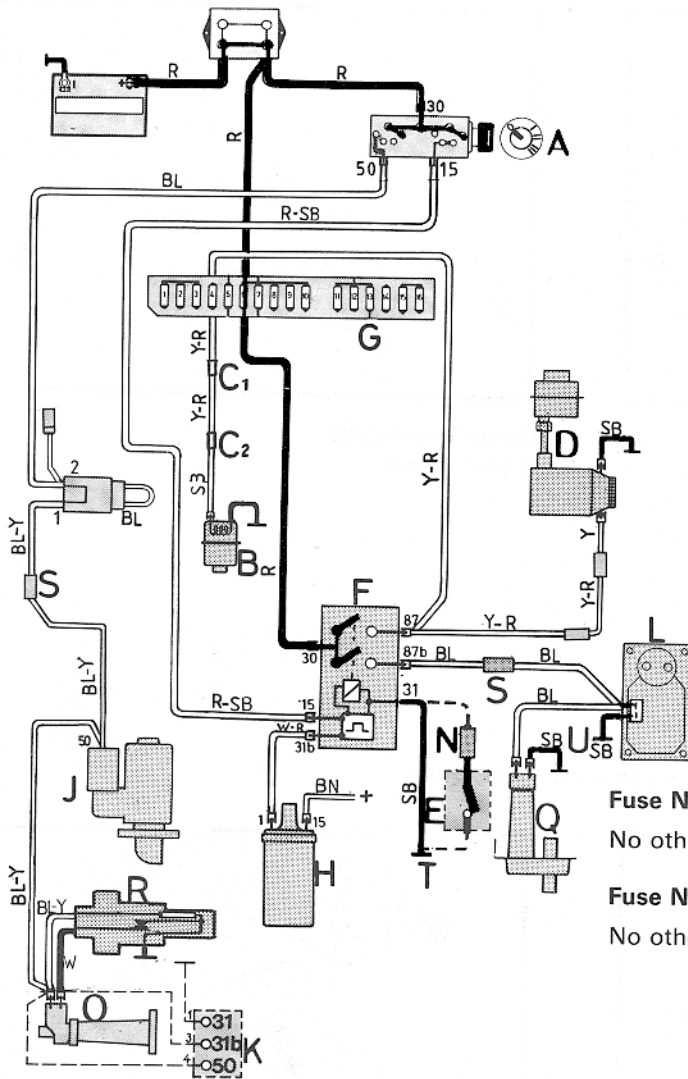
Tail lights, 4-door models



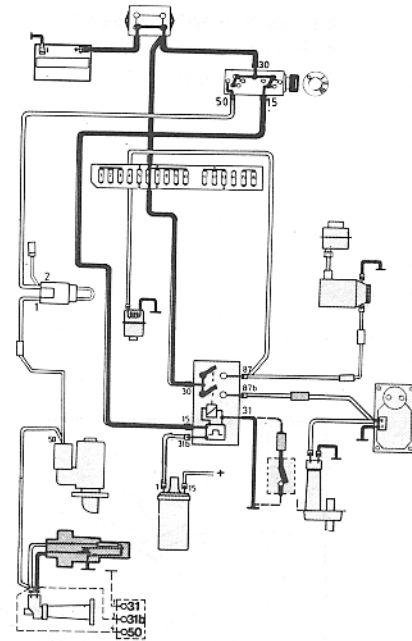
Tail lights, 5-door models

Fuel injection system, Turbo

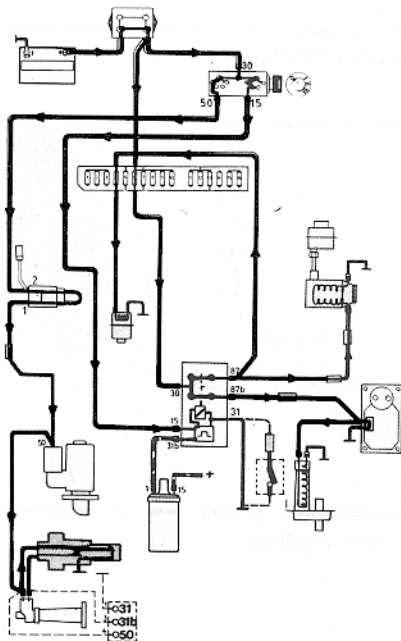
- | | | | |
|---|--------------------------------|---|------------------------------|
| A | Ignition switch | M | Distributor |
| B | Tank pump | N | Connector |
| C | Connector | O | Start injector |
| D | Fuel Pump | P | Ignition system control unit |
| D | Charge air overpressure switch | Q | Auxiliary air valve |
| F | Transistorized pump relay | R | Thermal time switch |
| G | Fuse box | S | Connector |
| H | Ignition coil | T | Ground connection |
| J | Starter motor | U | Ground connection |
| K | Impulse relay | V | Connector |
| L | Control pressure regulator | X | Connector |
| | | Y | Connector |



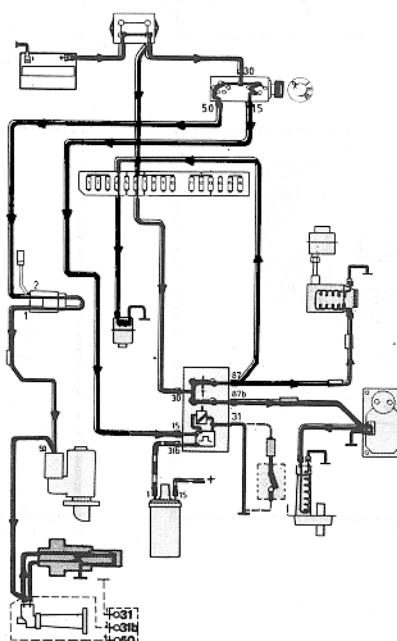
Engine stalled



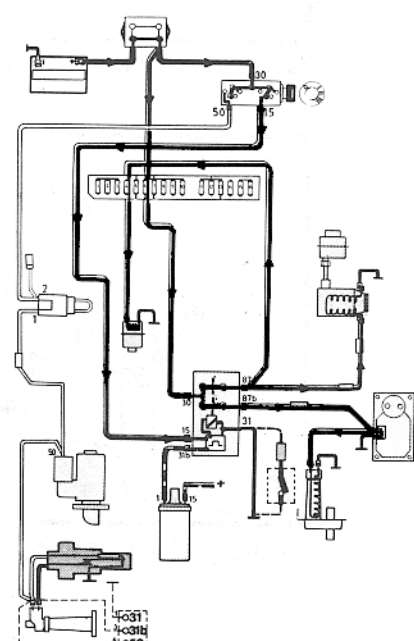
Starting, cold engine



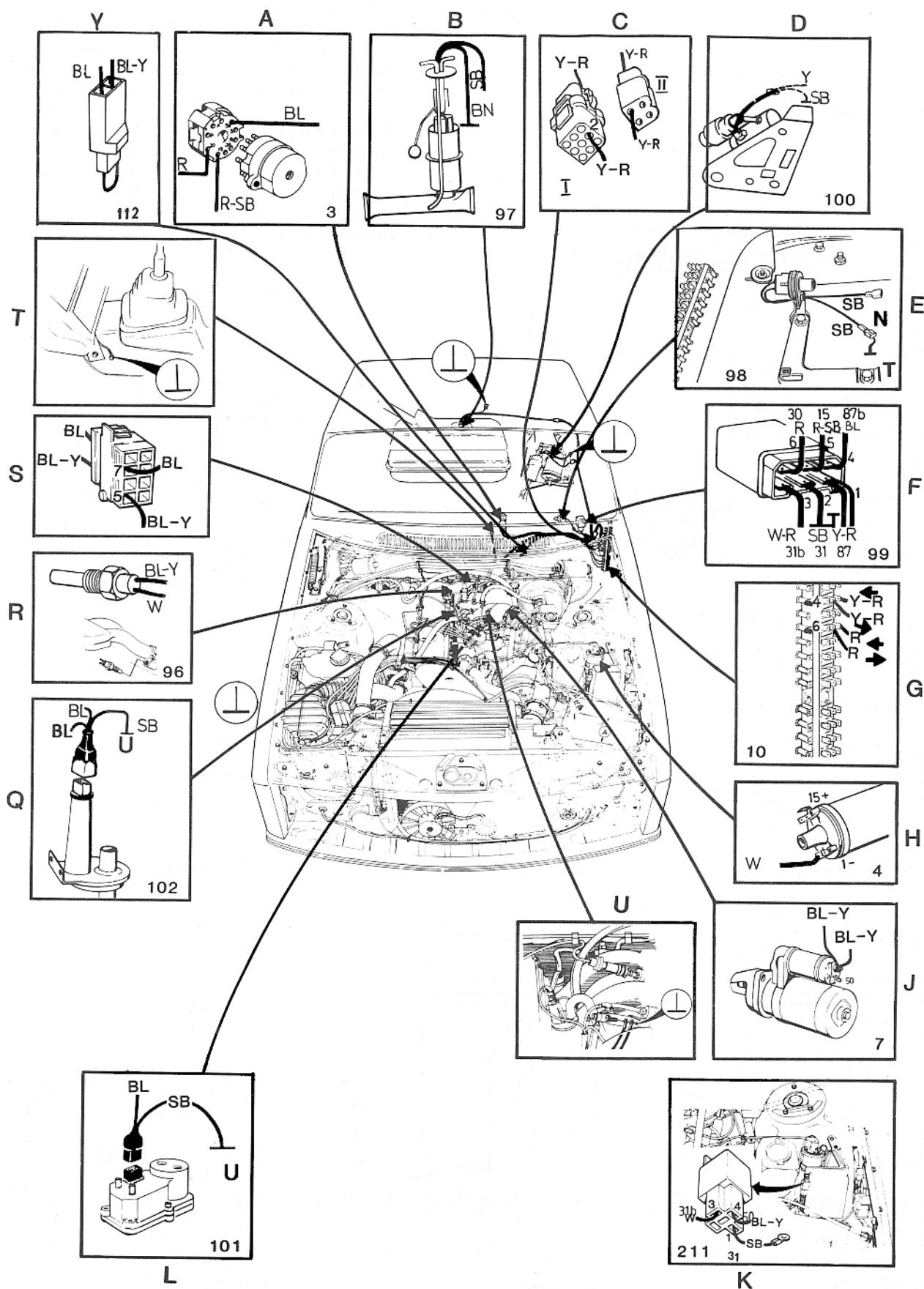
Starting, hot engine



Engine running

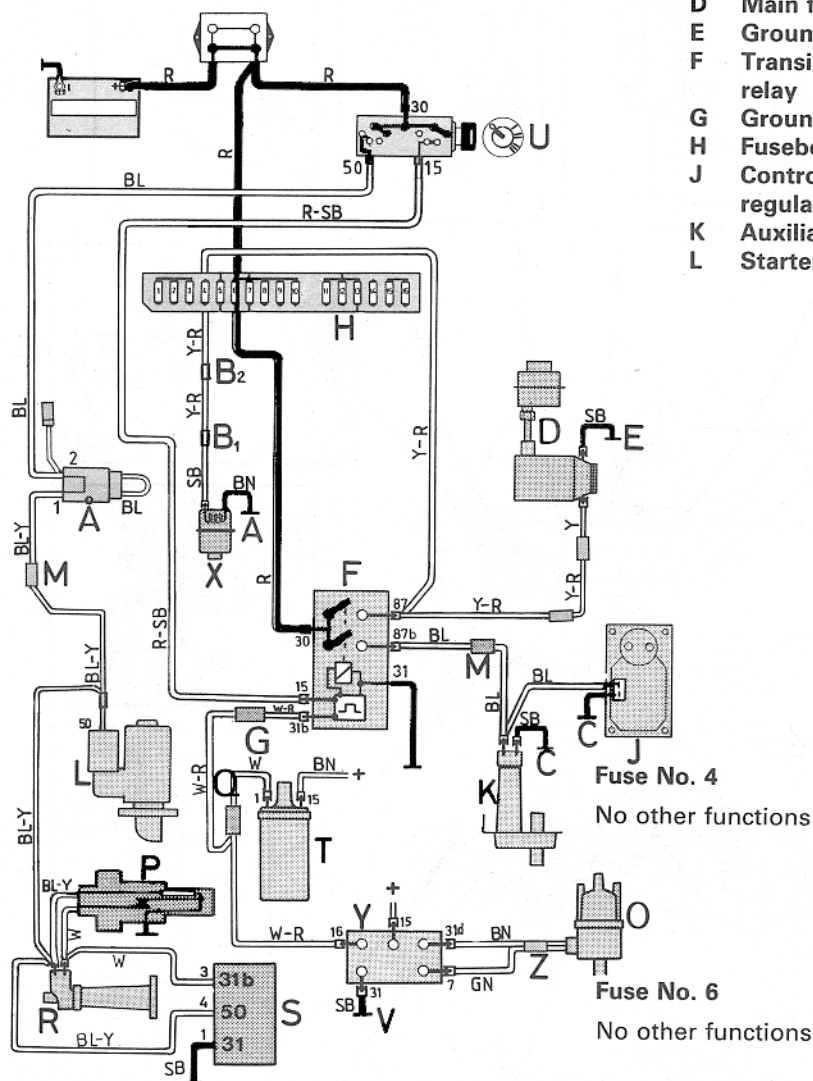


Fuel injection system, Turbo

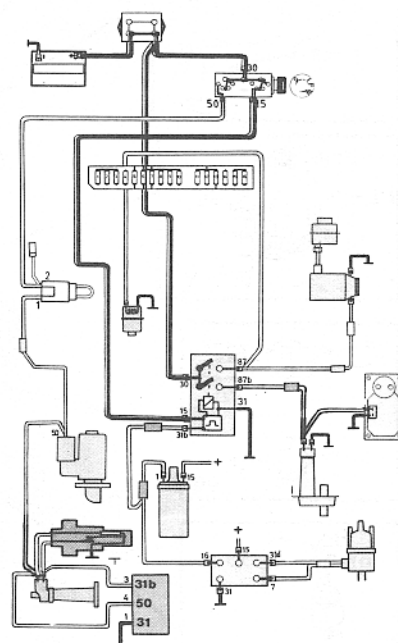


Fuel injection system, 6-cyl.

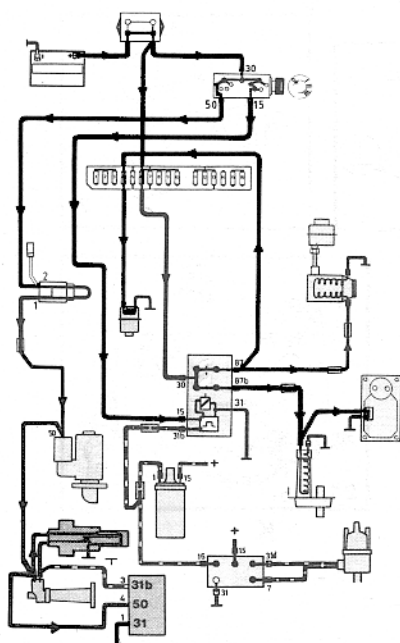
- | | | | |
|---|----------------------------|---|---------------------|
| A | Ground connection | M | Connector |
| B | Connector | O | Distributor |
| C | Ground connection | P | Thermal time switch |
| D | Main fuel pump | Q | Connector |
| E | Ground connection | R | Start injector |
| F | Transistorized pump relay | S | Impulse relay |
| G | Ground connection | T | Ignition coil |
| H | Fusebox | U | Ignition switch |
| J | Control pressure regulator | V | Ground connection |
| K | Auxiliary air valve | X | Tank pump |
| L | Starter motor | Y | Control unit |
| | | Z | Connector |
| | | Ä | Connector |



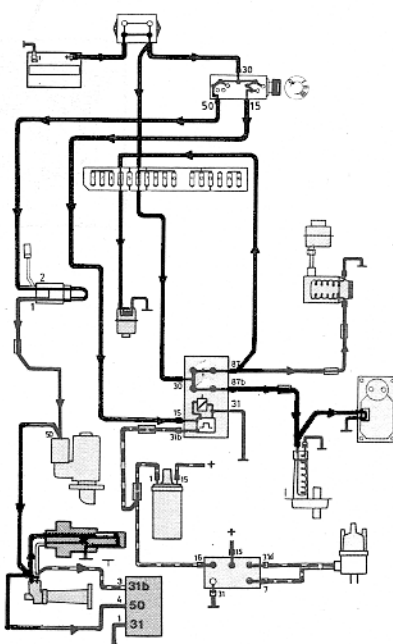
Engine stalled



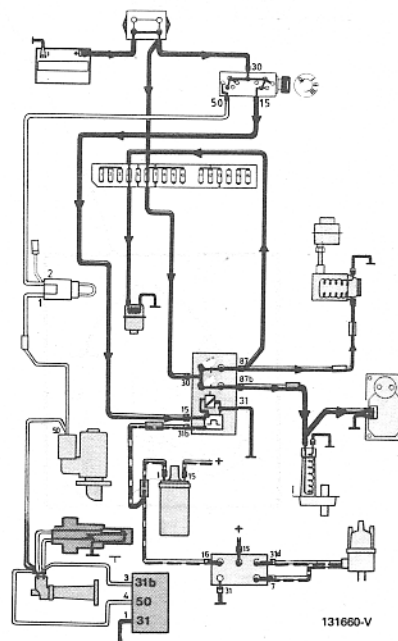
Starting, cold engine



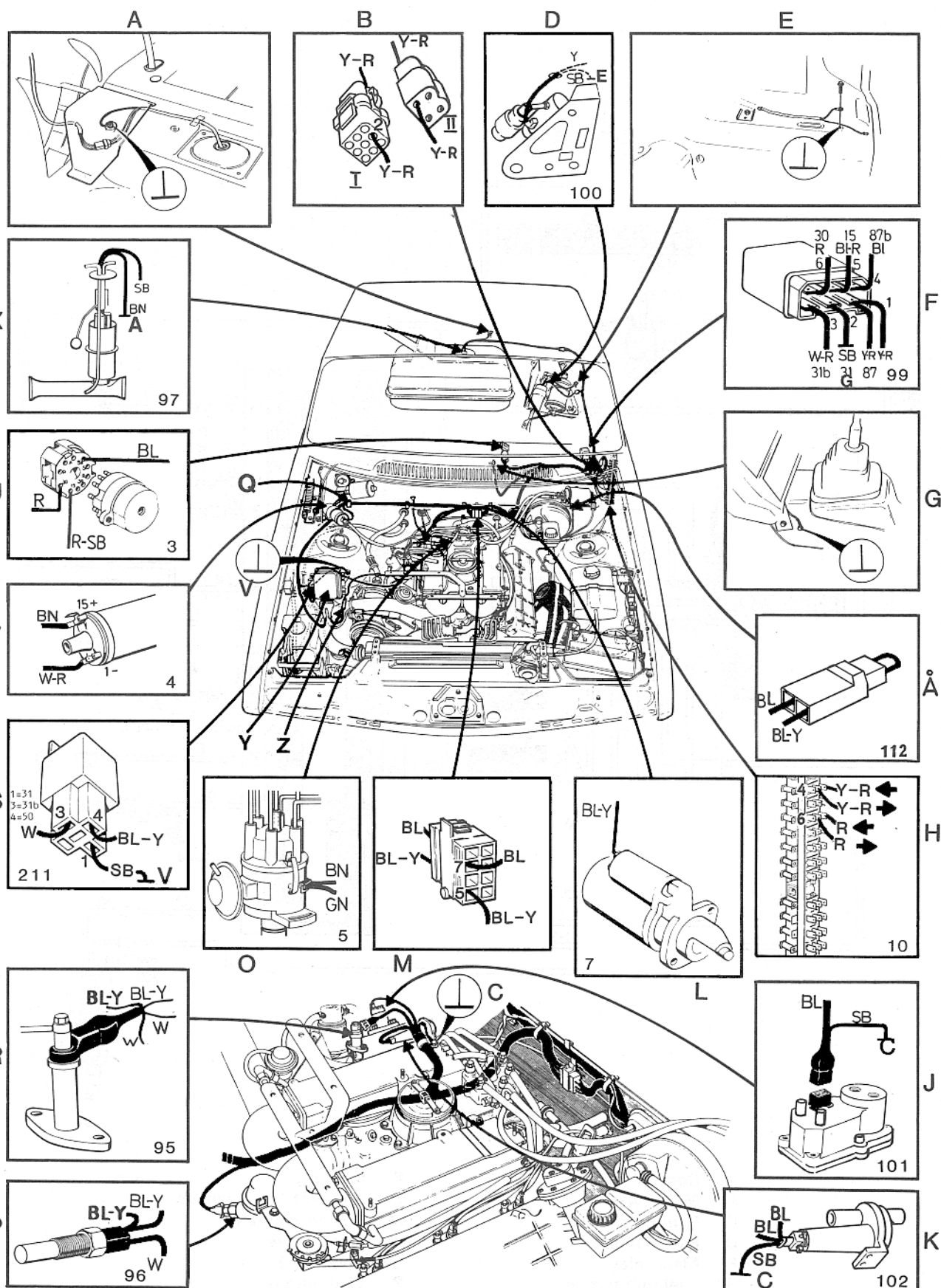
Starting, hot engine



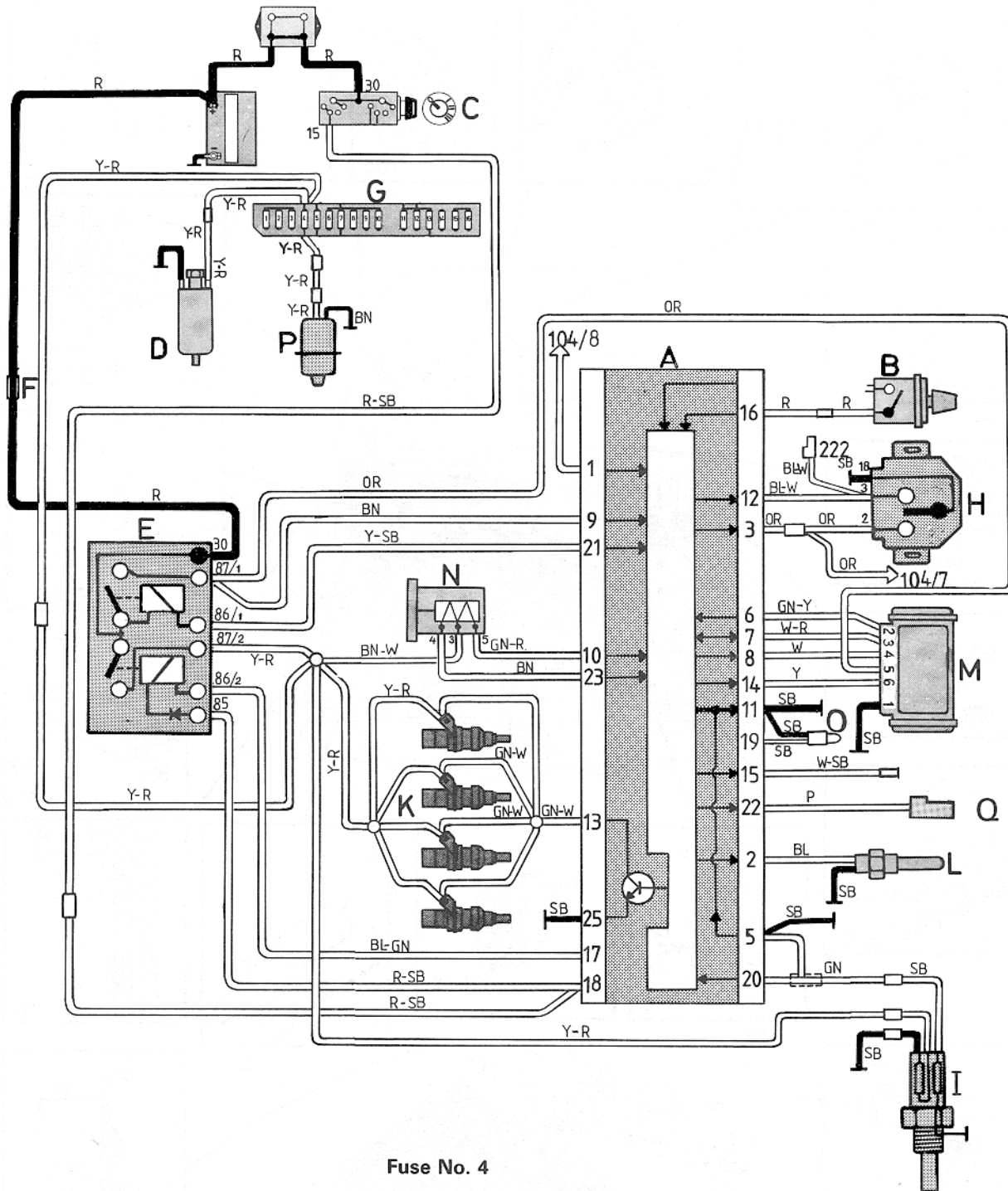
Engine running



Fuel injection system, 6-cyl.



LH-Jetronic II fuel injection



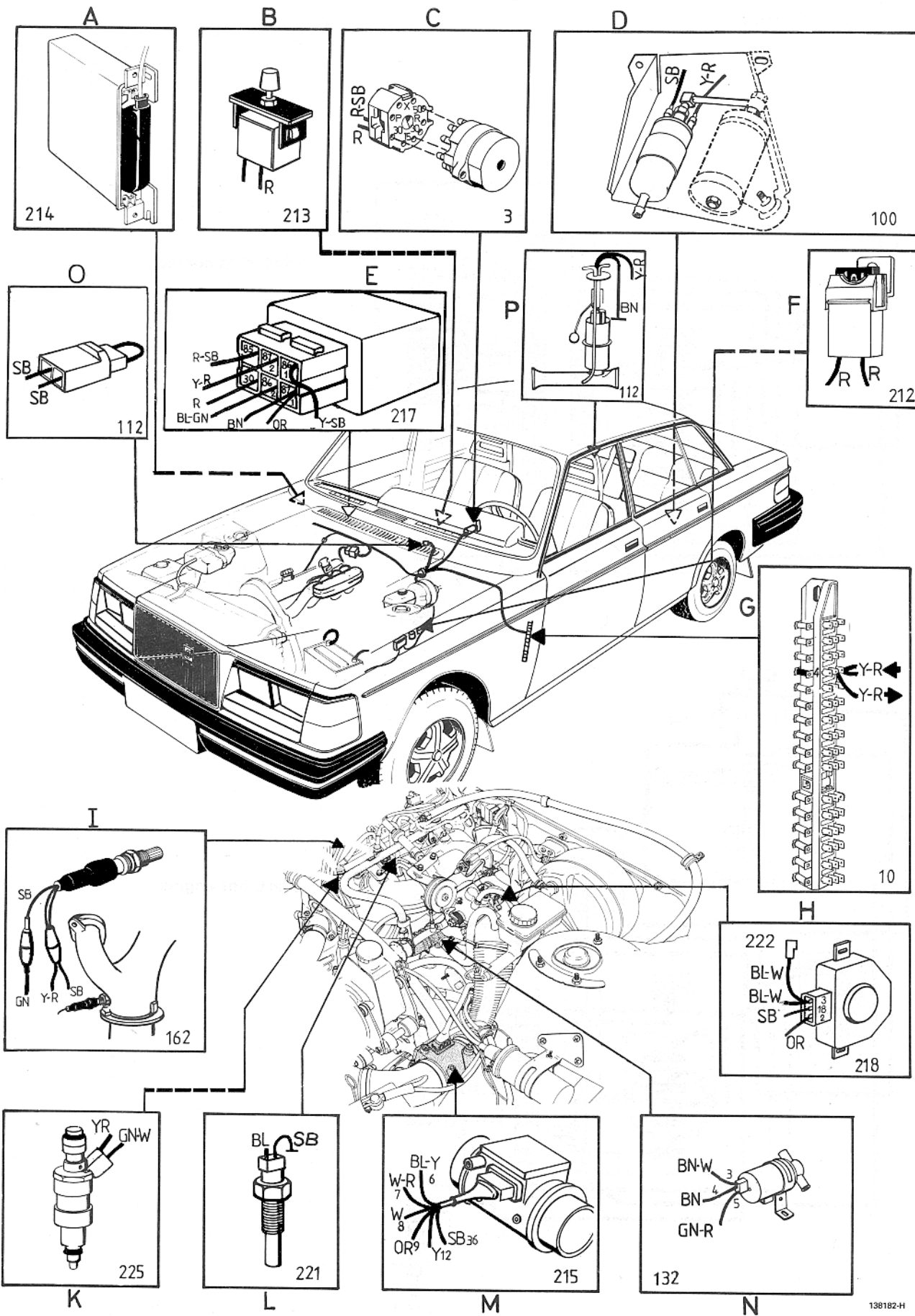
Fuse No. 4

No other functions

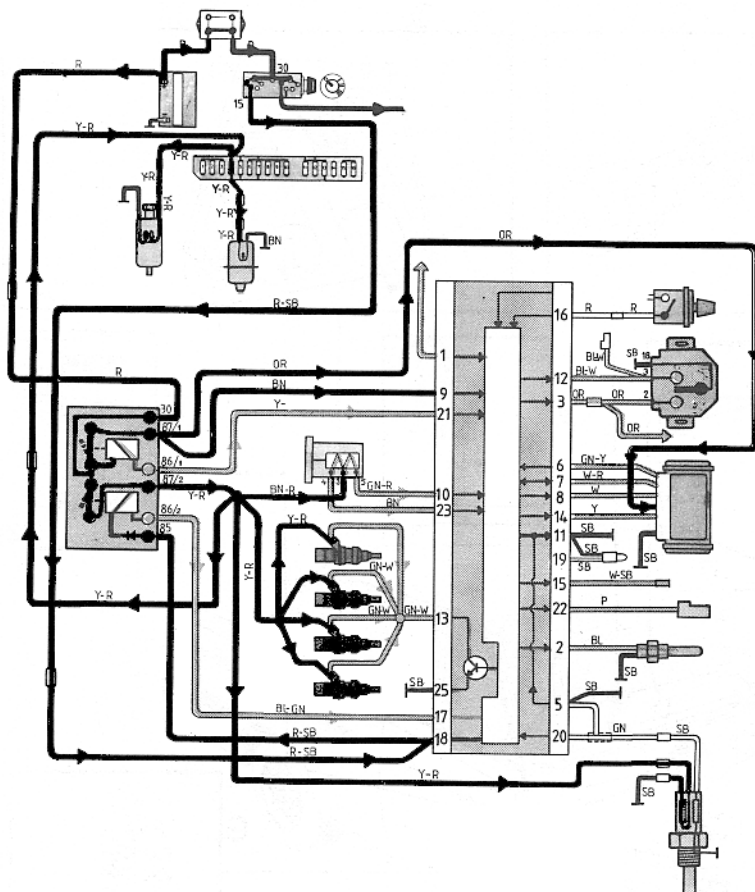
138182-V

- | | | | |
|---|-----------------|-----|-------------------------------|
| A | Control unit | K | Injectors |
| B | Microswitch, AC | L | Ambient temp sensor |
| C | Ignition switch | M | Air mass meter |
| D | Fuel pump | N | Idling valve |
| E | Main relay | O | Connector |
| F | Fuel pump relay | P | Tank pump |
| G | Fusebox | Q | Test point, Lambdasond |
| H | Breaker | 104 | Ignition system, control unit |
| I | Lambdasond | 222 | Idle speed adjustment |

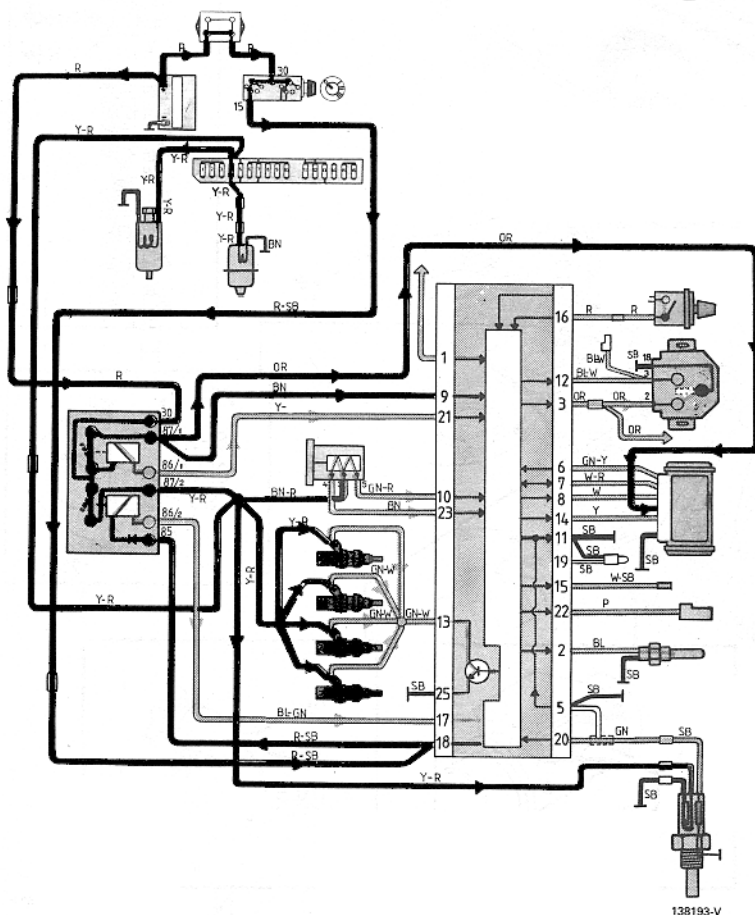
LH-Jetronic II fuel injection



LH-Jetronic II fuel injection

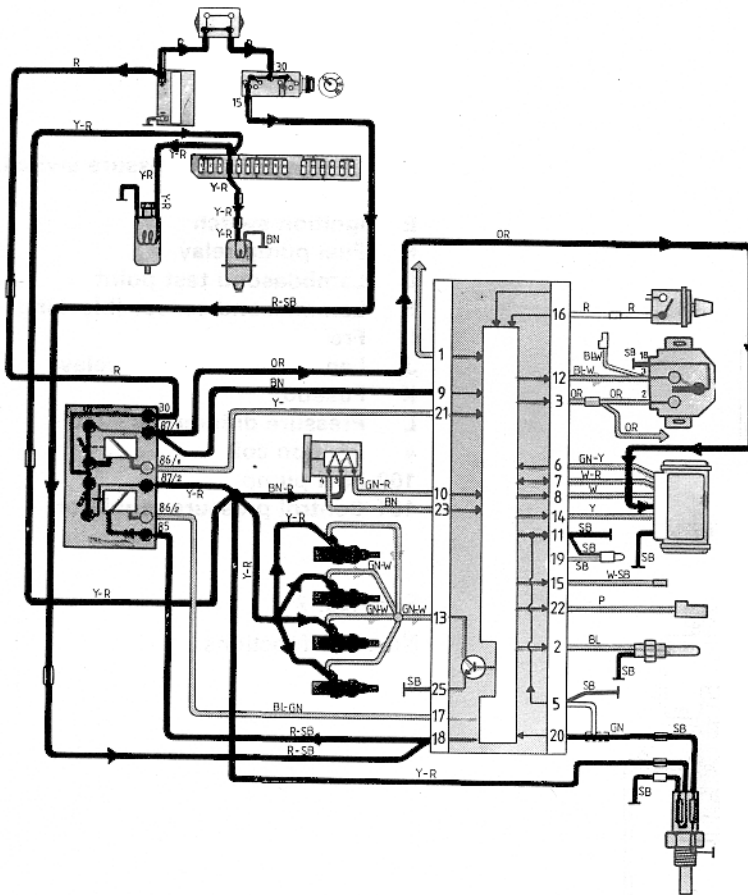


Start, cold engine

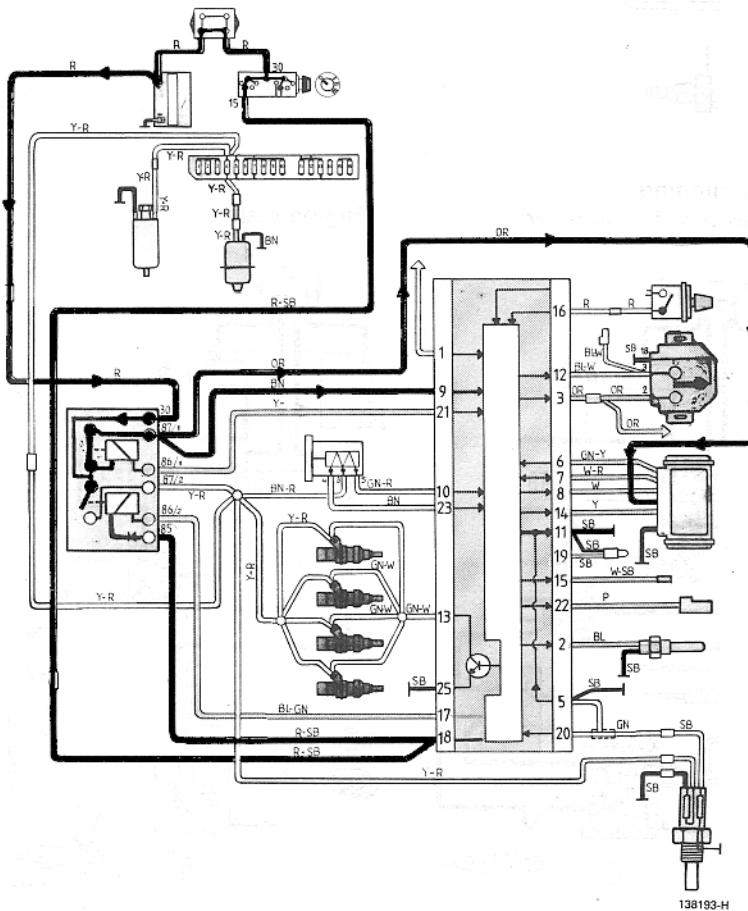


Start, hot engine

LH-Jetronic II fuel injection

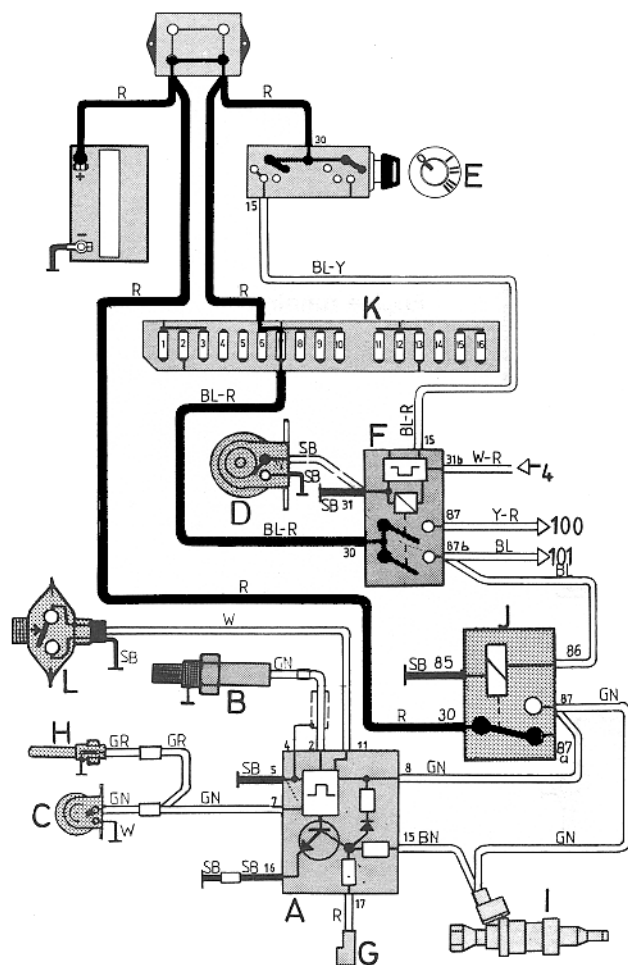


Engine running



Stalled

Lambda-system

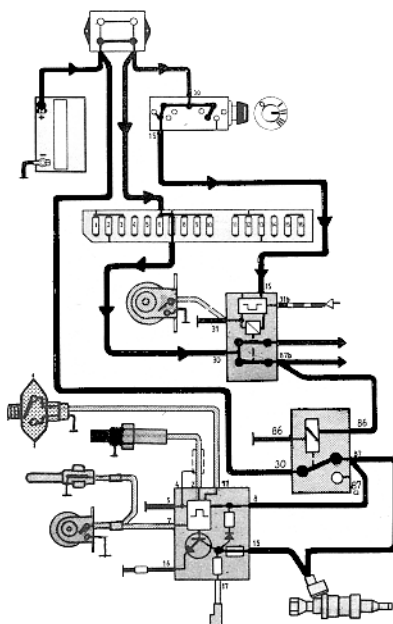


- A Control unit
- B Lambdasond
- C Microswitch
- D Charge air overpressure switch, Turbo
- E Ignition switch
- F Fuel pump relay
- G Lambdasond test point
- H Lambdasond sensor (blocking)
- I Frequency valve
- J Lambdasond system relay
- K Fusebox
- L Pressure differential switch
- 4 ignition coil
- 100 Fuel pump
- 101 Control pressure regulator

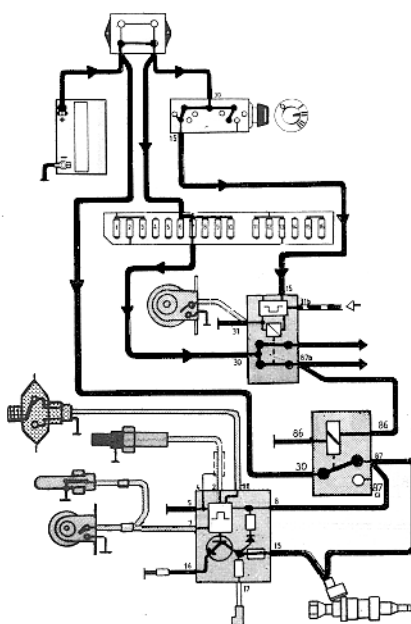
Fuse No. 7

No other functions

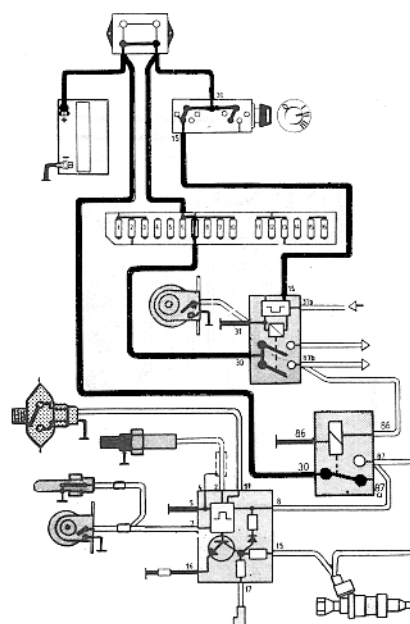
Engine running
Frequency valve disengaged



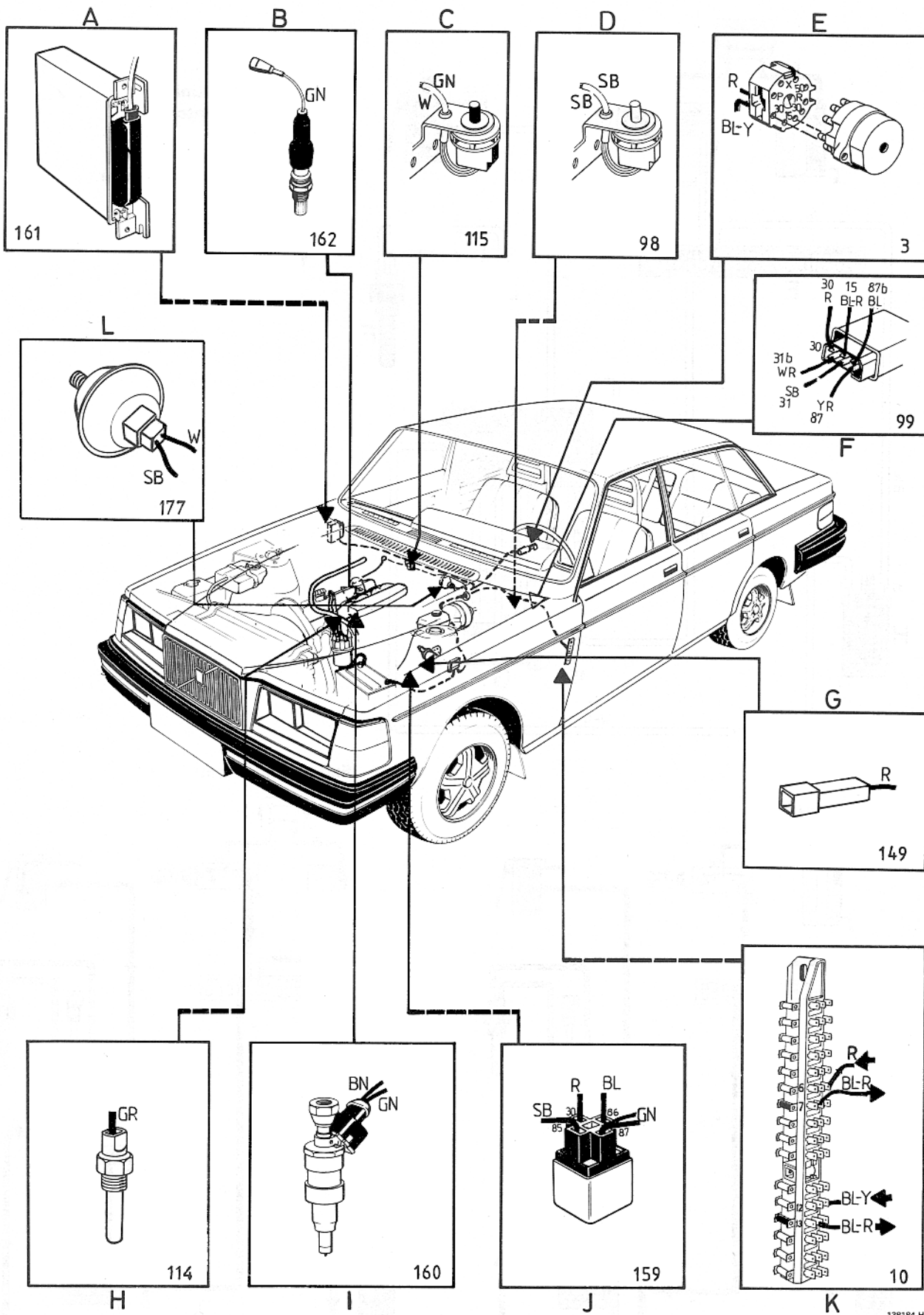
Engine running
Frequency valve engaged



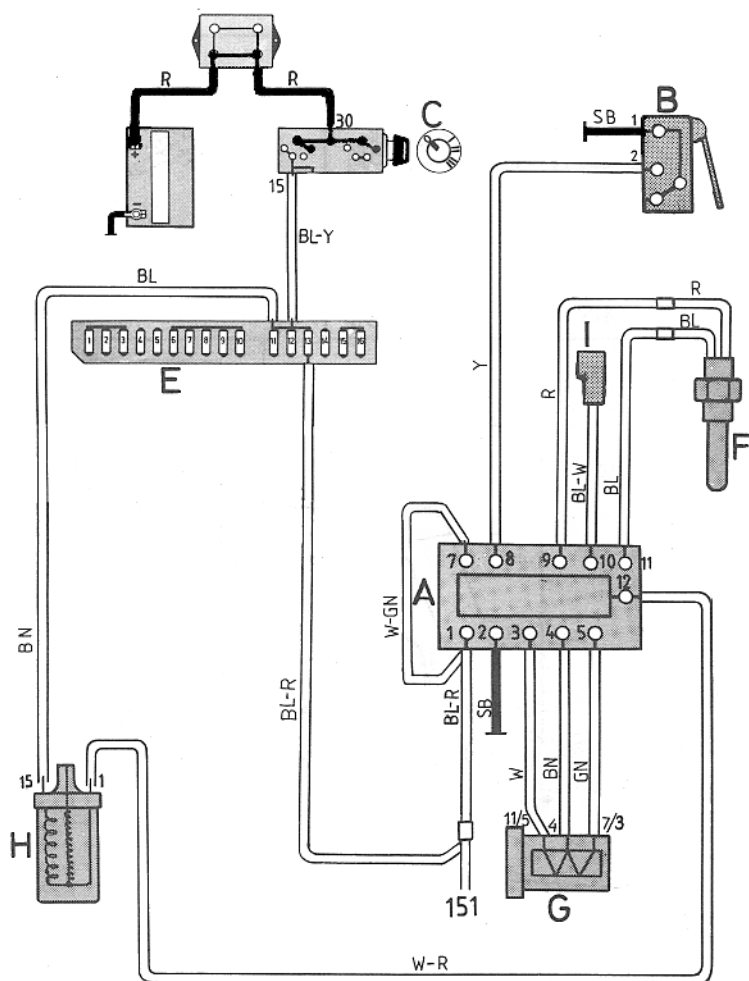
Engine stalled



Lambda-system

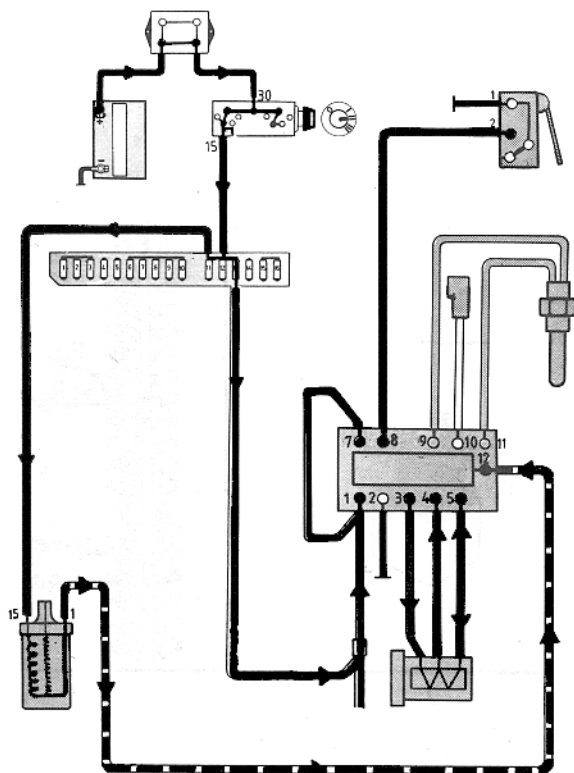


Constant idle speed system (CIS), Turbo

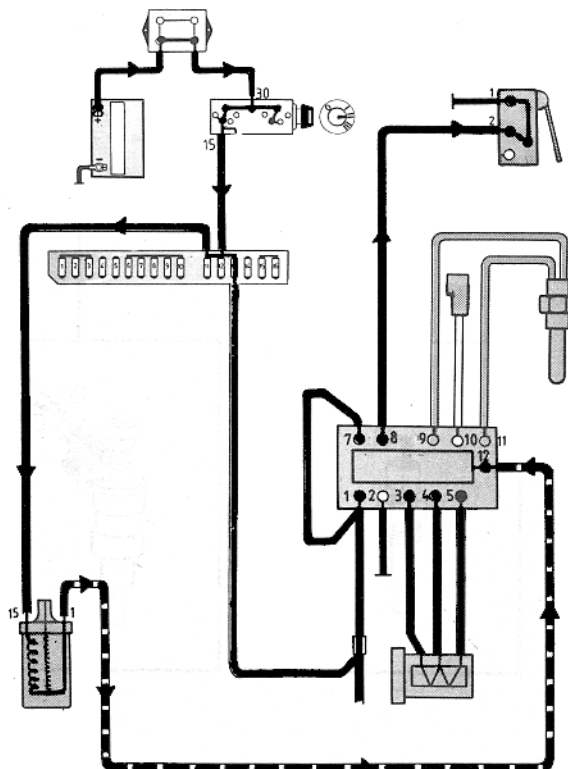


- A Control unit
- B Microswitch
- C Ignition switch
- E Fusebox
- F Temperature sensor
- G Idling valve
- H Ignition coil
- I Service output, adjusting idle
- 151 Voltmeter

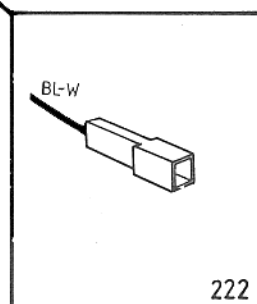
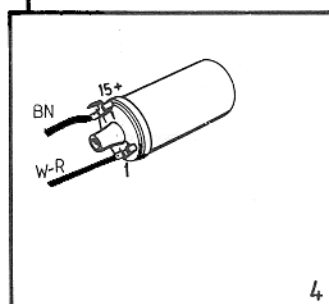
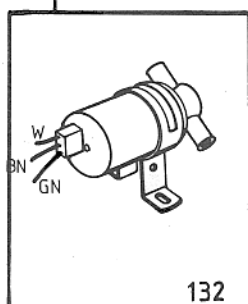
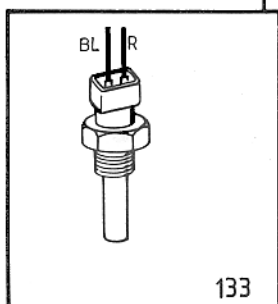
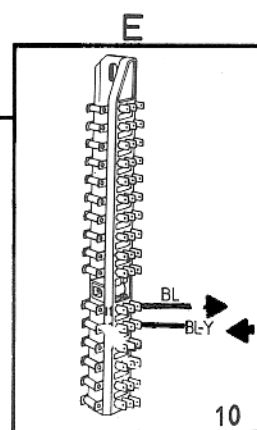
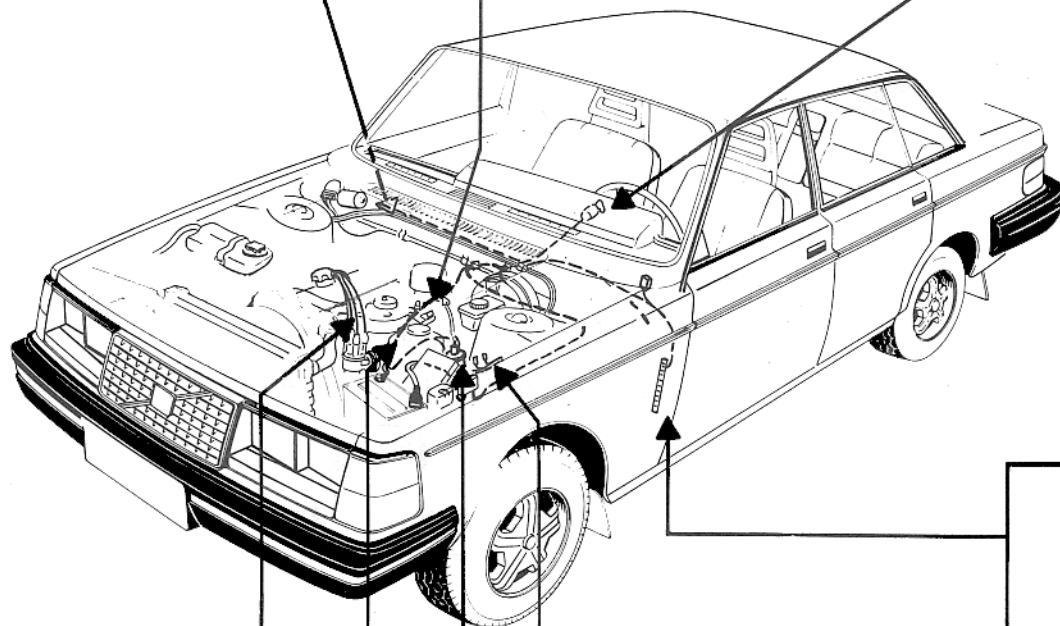
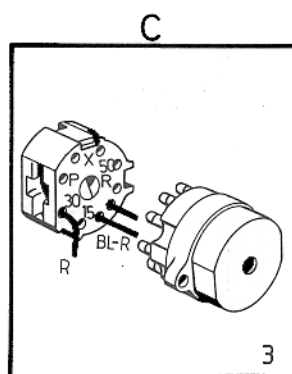
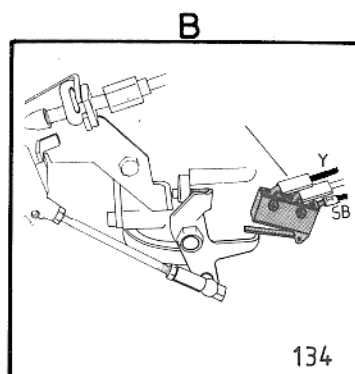
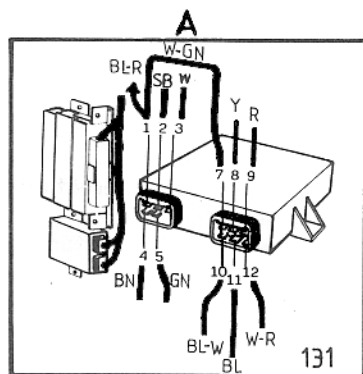
Idling



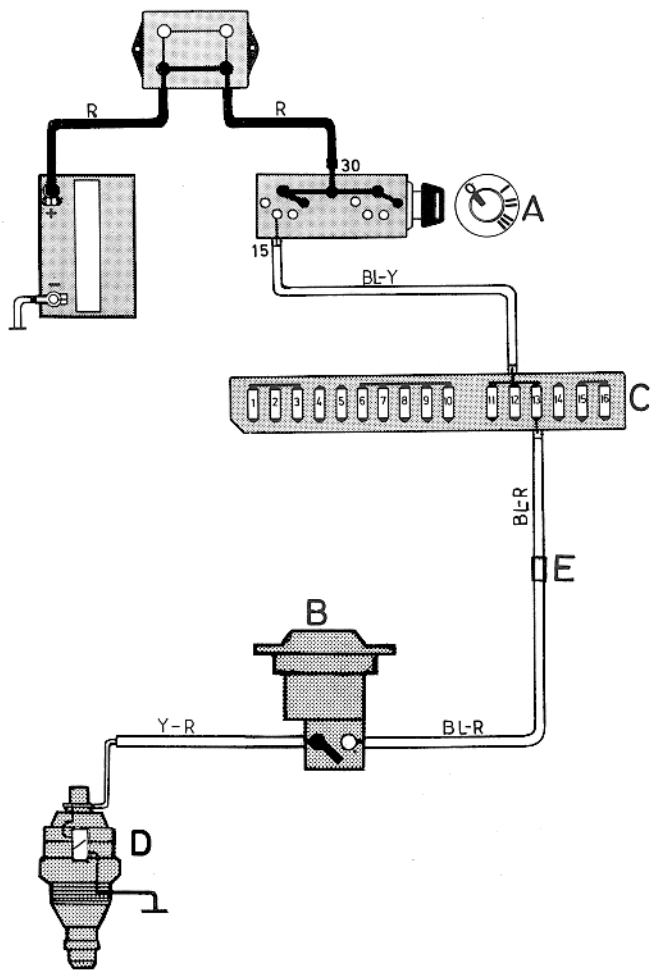
Engine under load



Constant idle speed system (CIS), Turbo



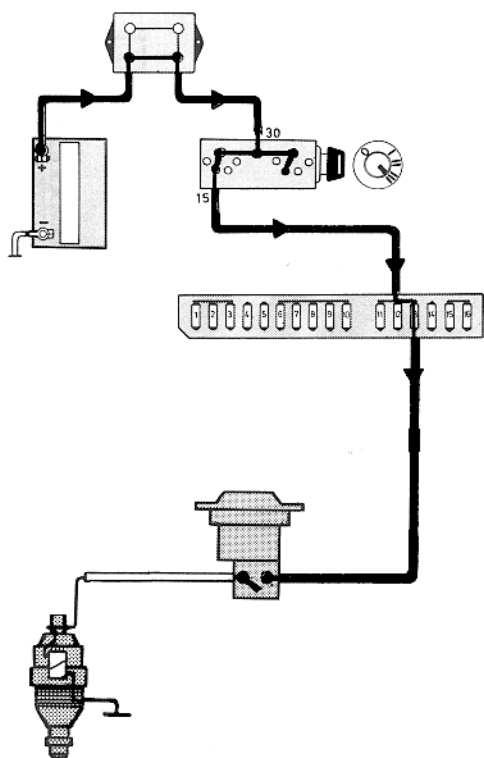
D 24 USA FED/Canada



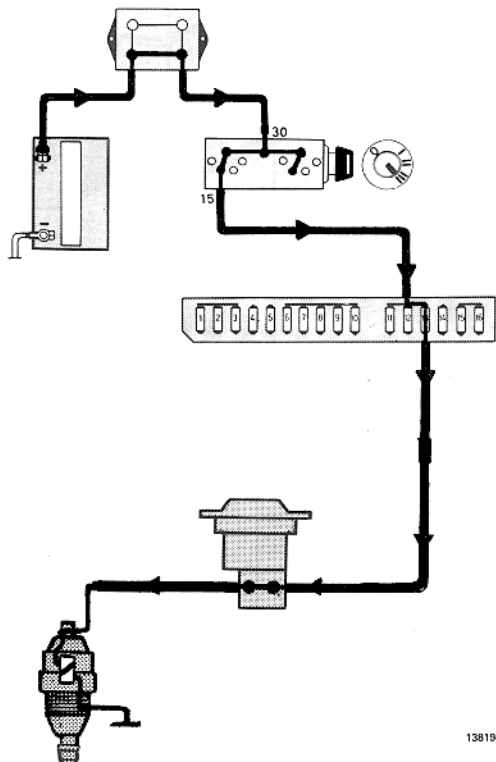
- A Ignition switch
- B Microswitch, Aneroid unit
- C Fusebox
- D Solenoid valve, altitude compensation
- E Fuel valve
- F Connector

Fuse No. 13
Combined instrument panel
Direction indicators

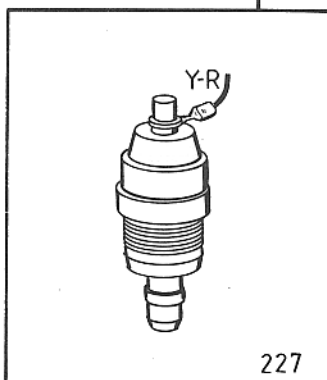
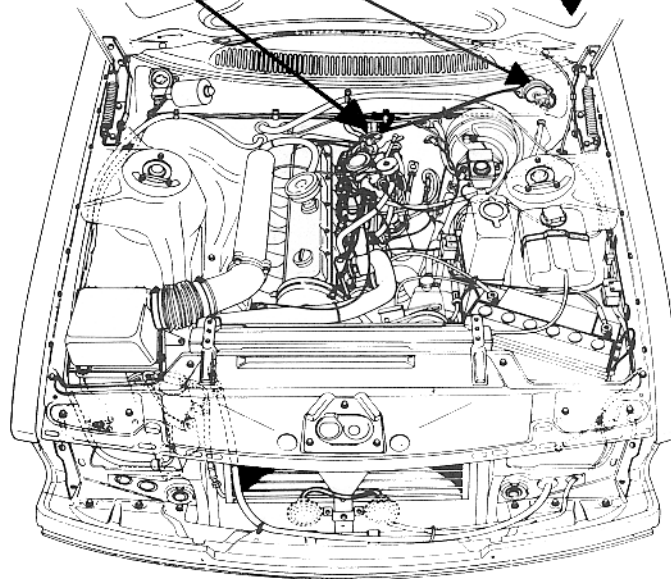
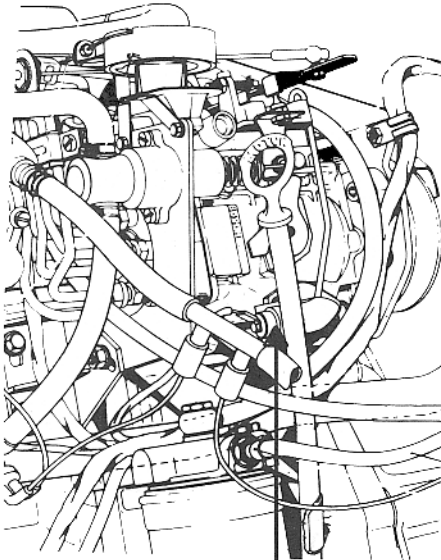
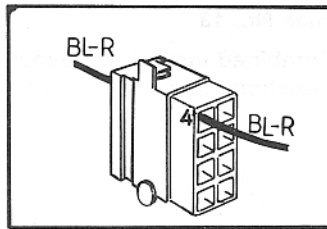
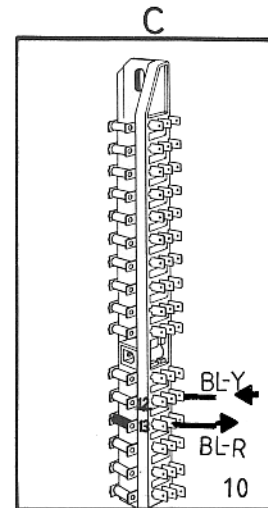
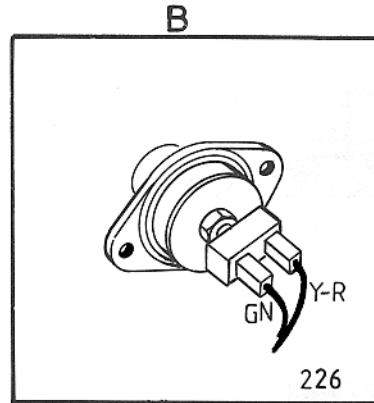
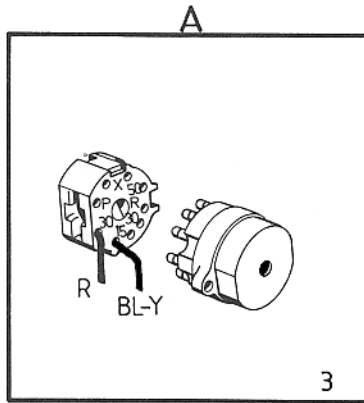
Ignition ON



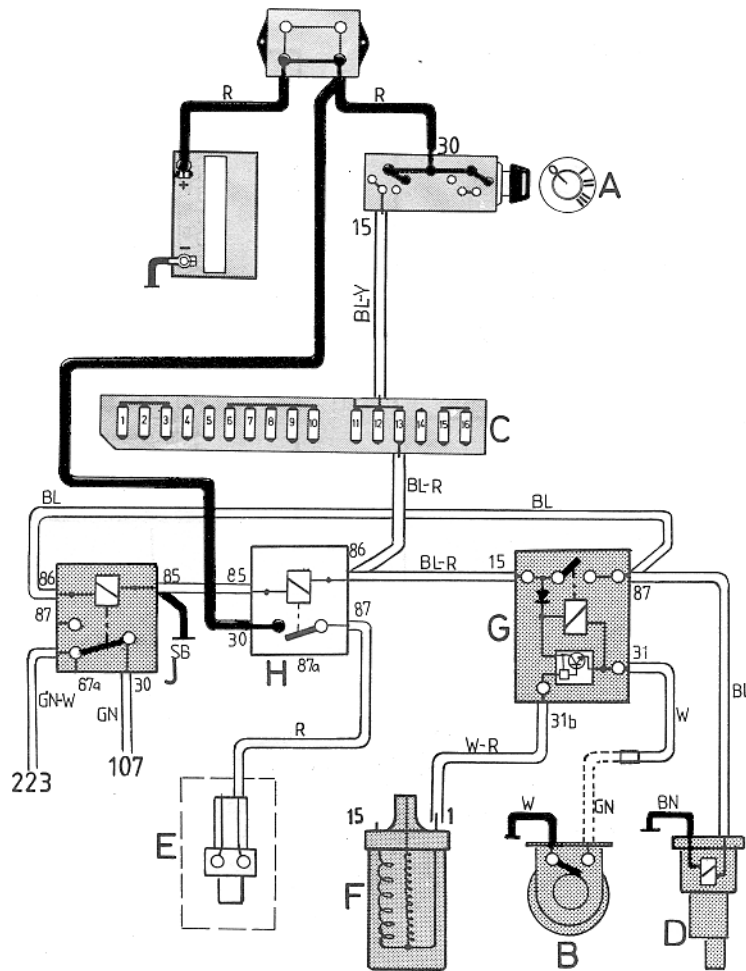
Ignition ON
Altitude compensation system activated



D 24 USA FED/Canada



Intercooler, B 21 FT

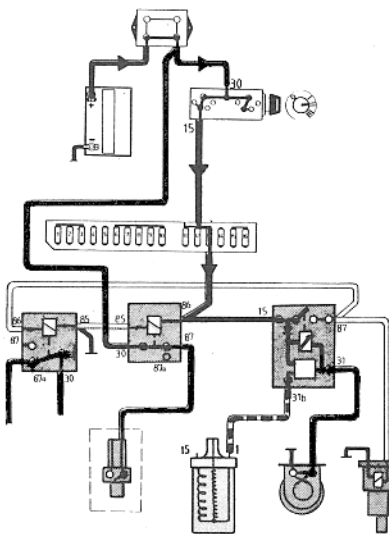


- A Ignition switch
- B Microswitch
- C Fuse box
- D Solenoid valve, charge pressure
- E Electric cooling fan thermostat
- F Ignition coil
- G Engine rpm relay
- H Electric cooling fan relay
- J Relay (disengaging of AC)

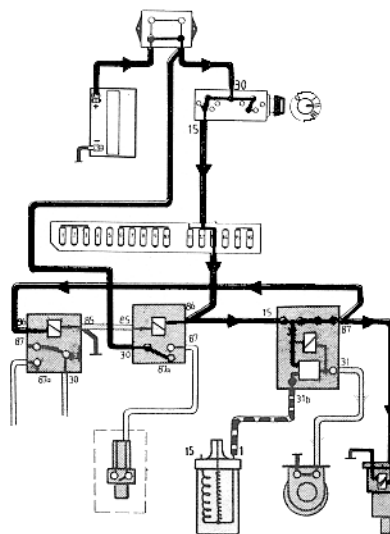
Fuse No. 13

Combined instrument panel
Direction indicators

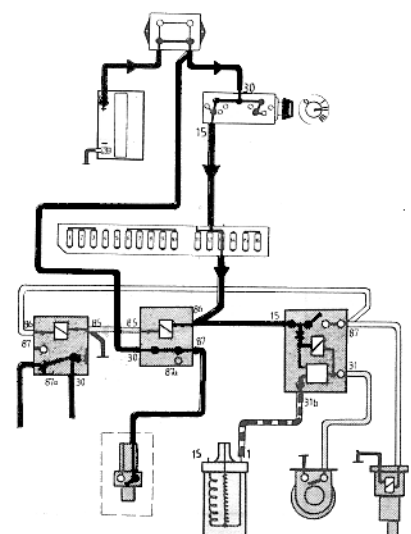
Engine speed below relay engagement speed



Engine speed above relay engagement speed during acceleration

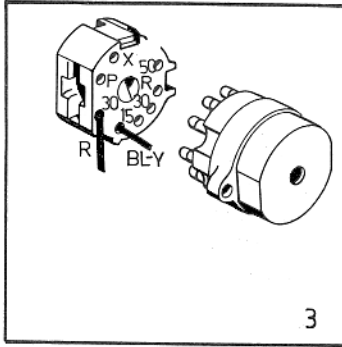


Engine speed above relay engagement speed
Vehicle cruising

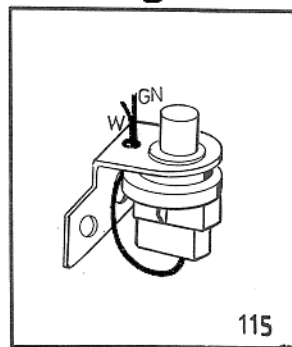


Intercooler, B 21 FT

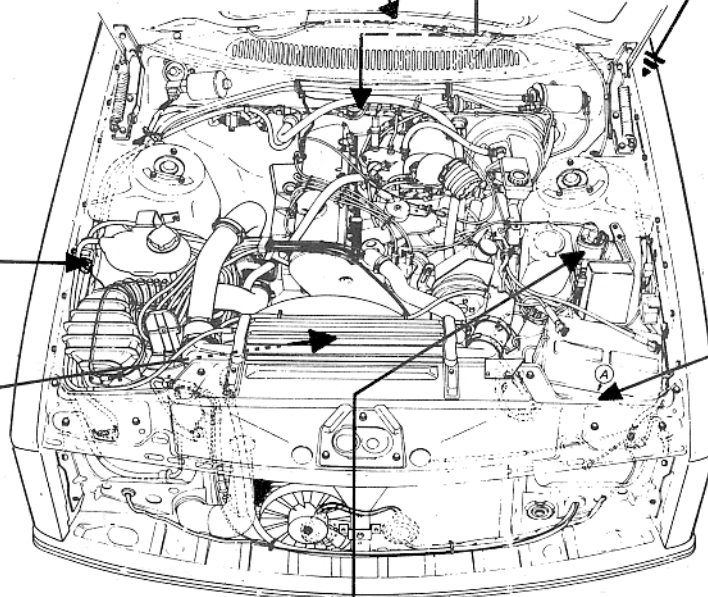
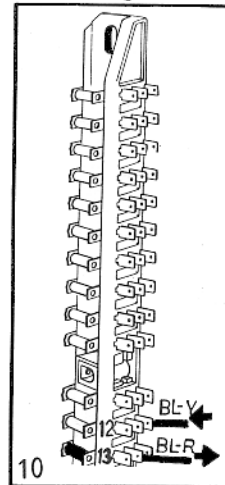
A



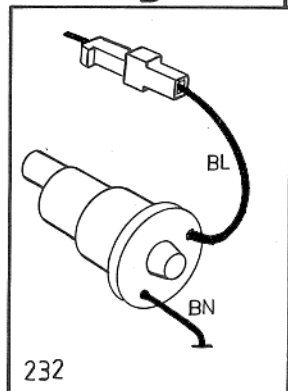
B



C

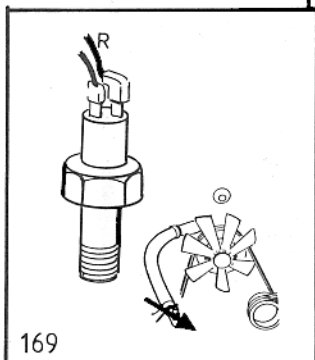


D

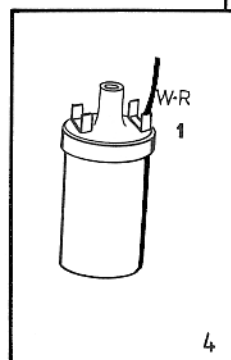


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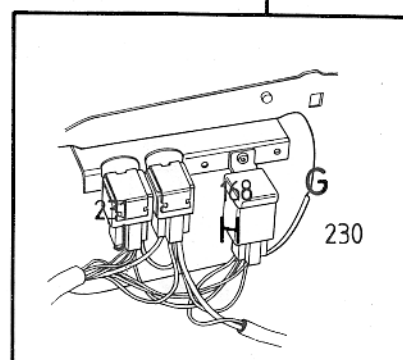
E



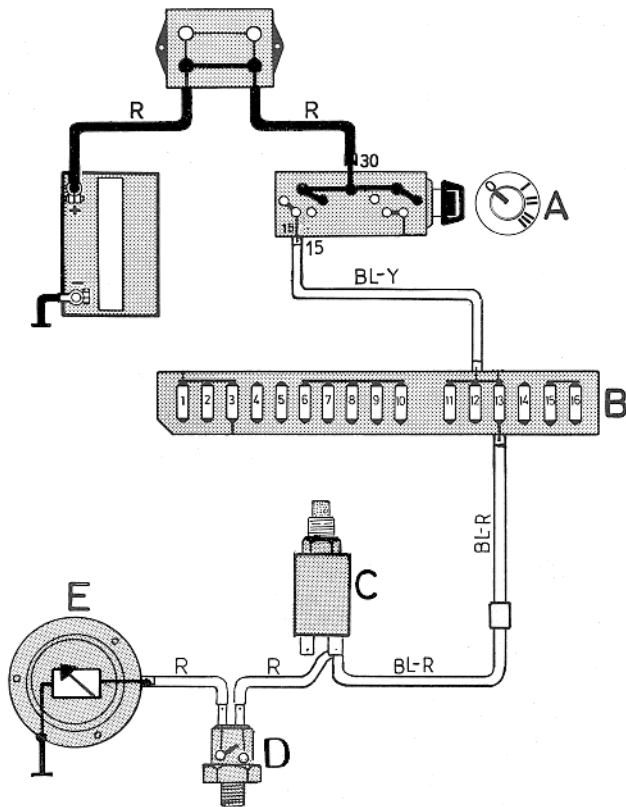
F



G, H, J



Hot Spot

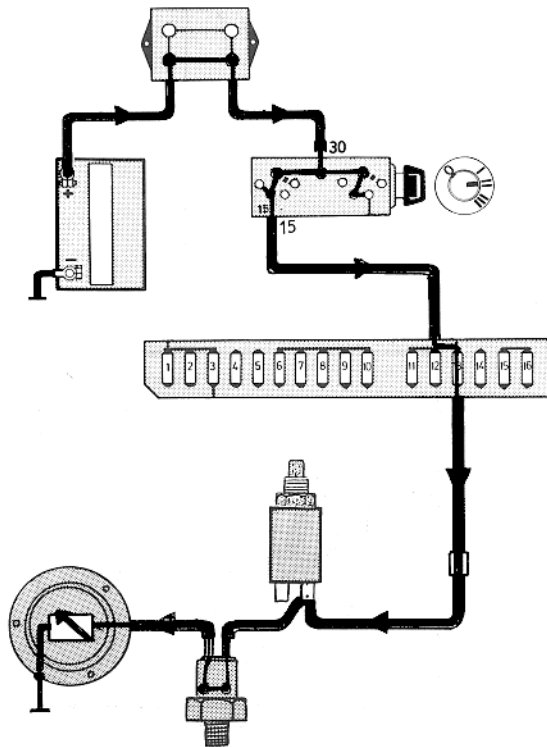


- A Ignition switch
- B Fusebox
- C Solenoid valve
- D Thermal switch
- E PTC resistor

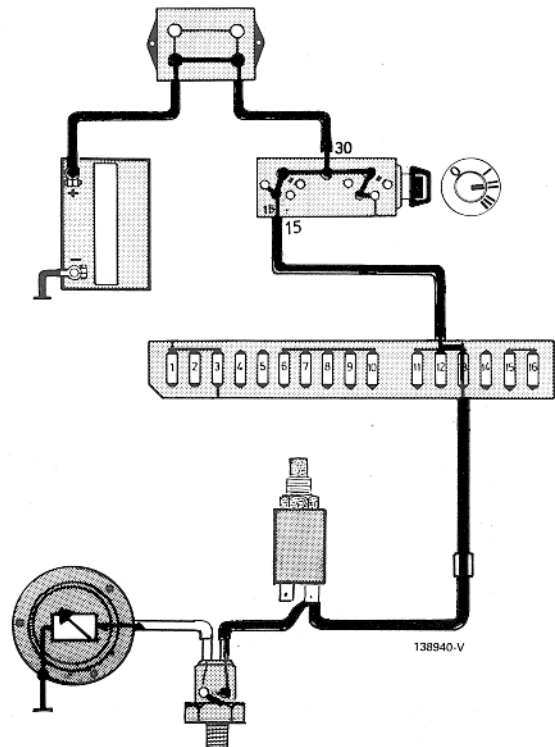
Fuse No. 13

Combined instrument panel
Direction indicators

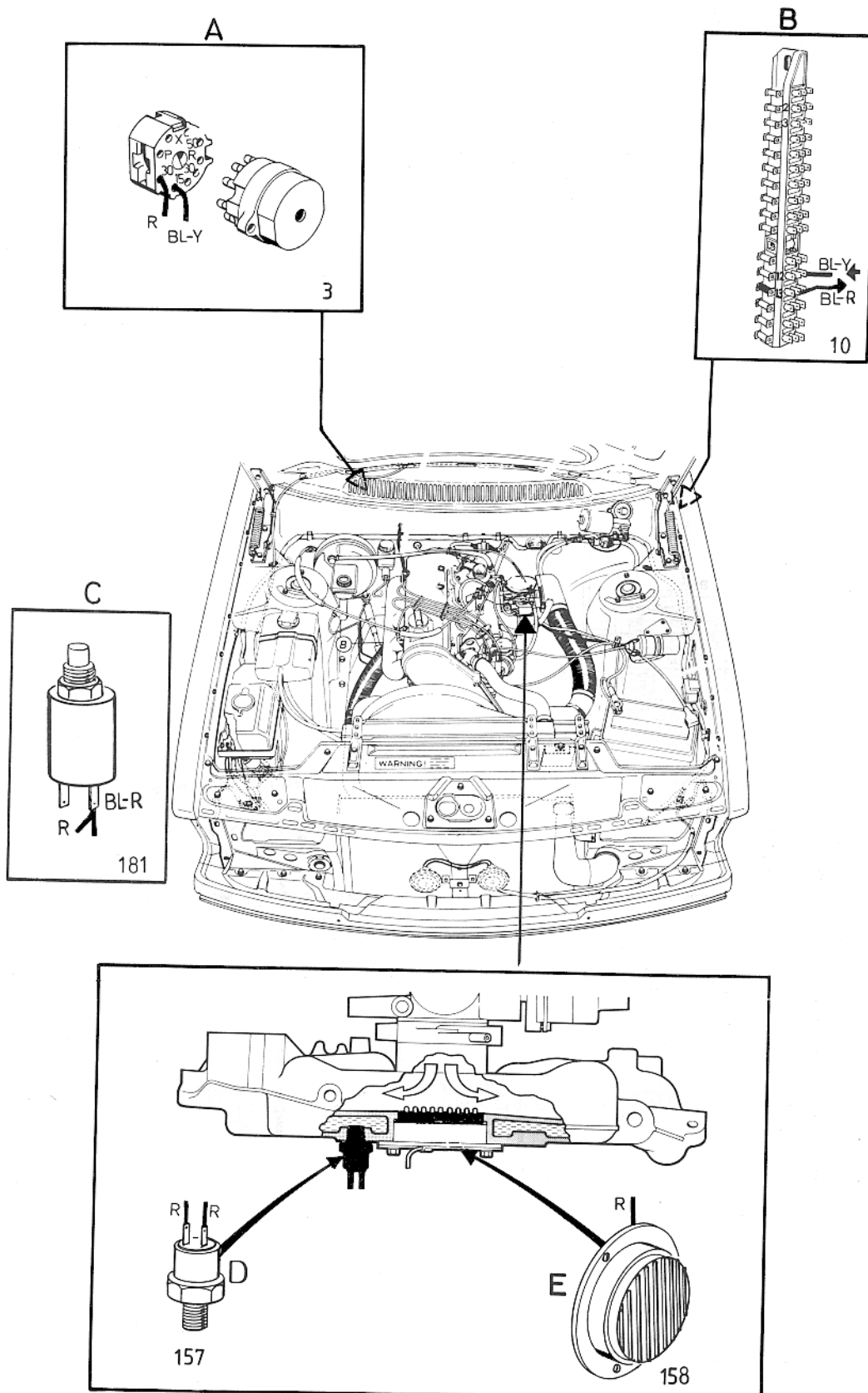
Ignition ON
Coolant below 40°C (104°F)



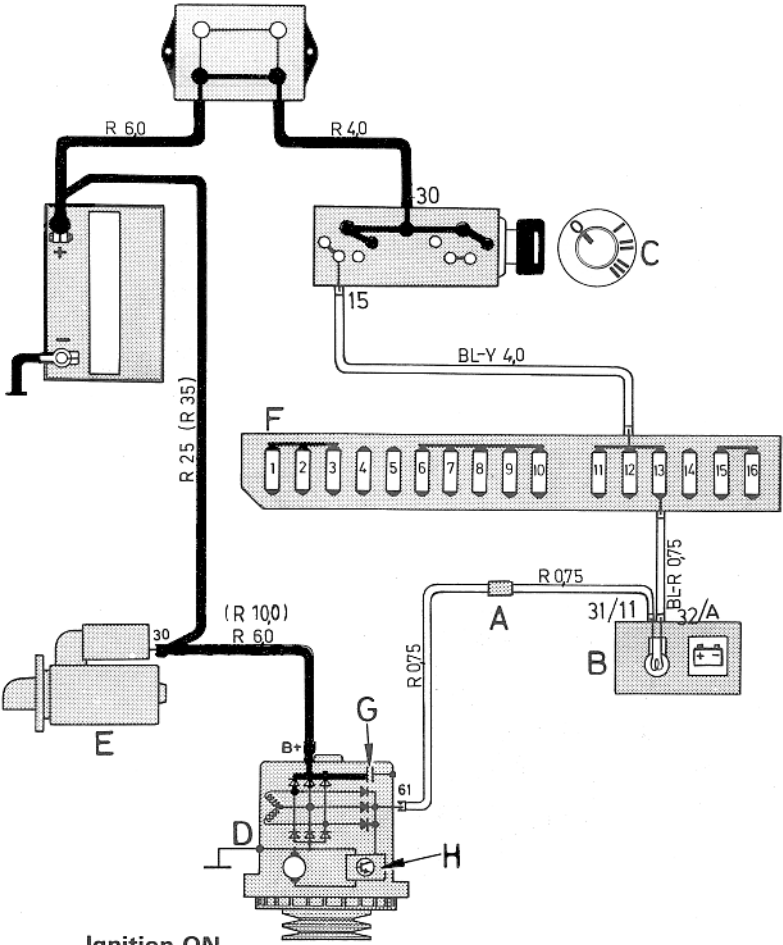
Ignition OFF
Coolant above 40°C (104°F)



Hot Spot



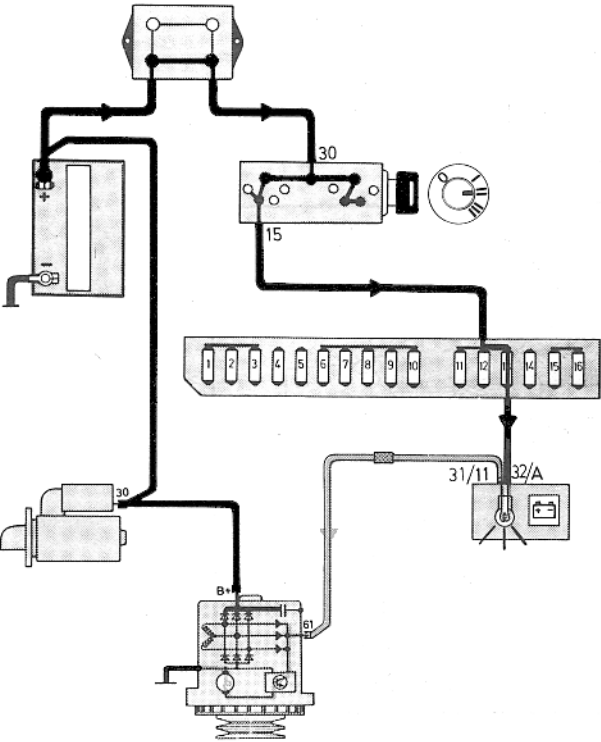
Charging system



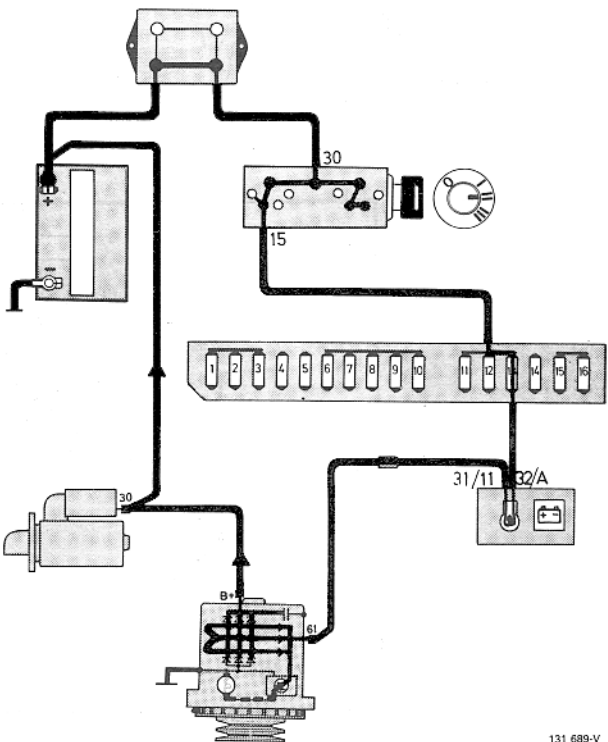
- A Connector
- B Battery charge failure warning lamp
- C Ignition switch
- D Alternator
- E Starter motor
- F Fusebox
- G Capacitor
- H Integral regulator

Fuse No. 13
Direction indicators

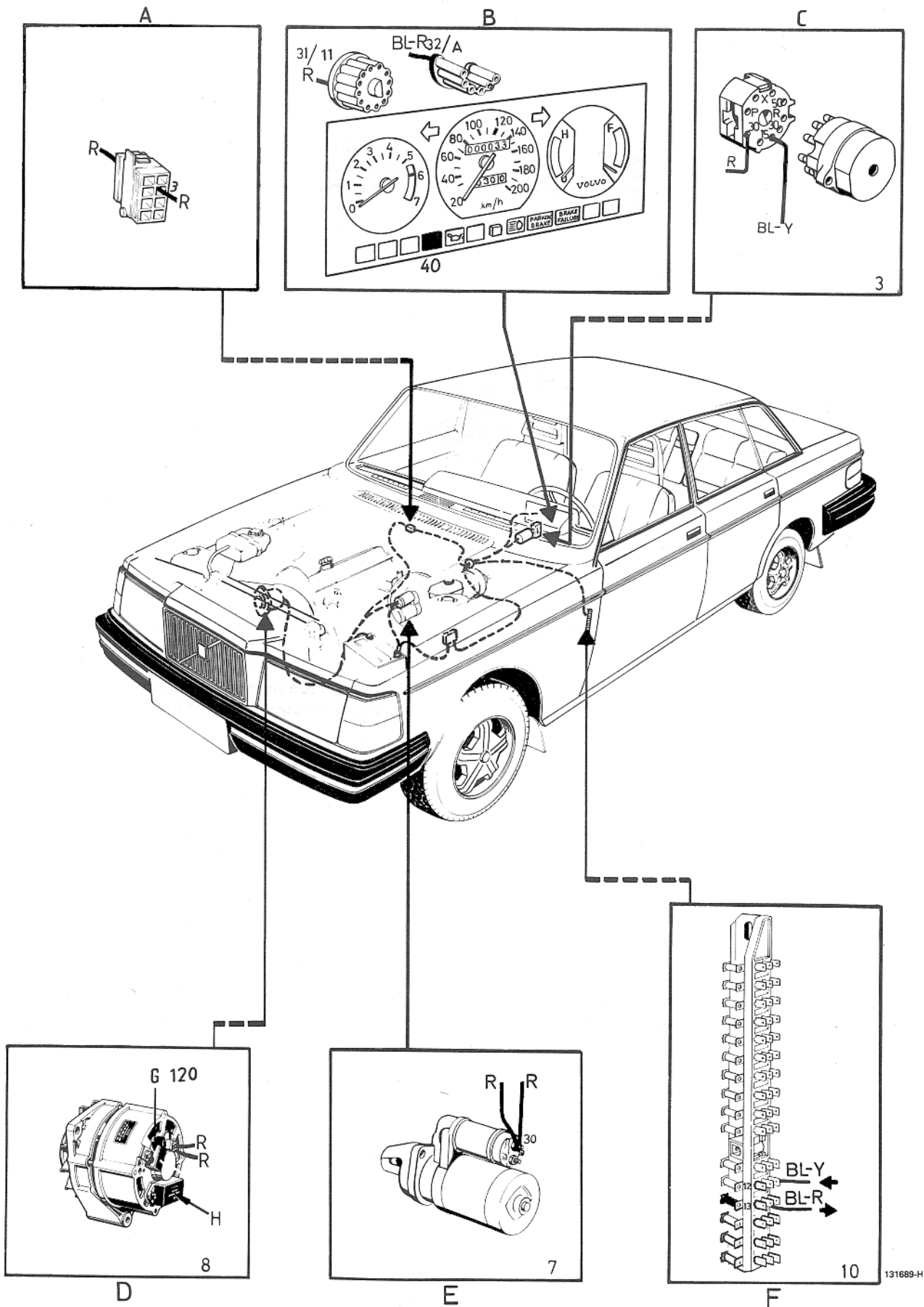
Ignition ON
(engine not running)



Alternator charging

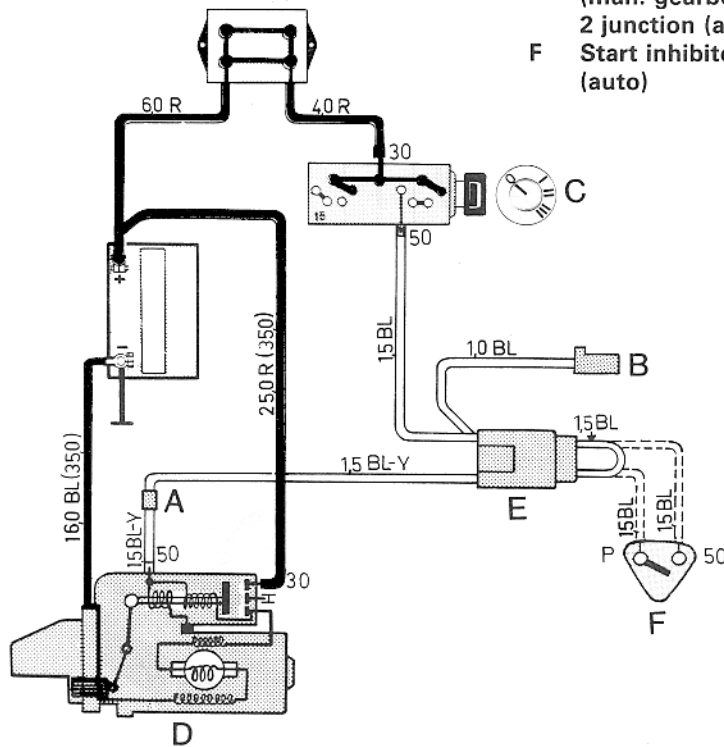


Charging system

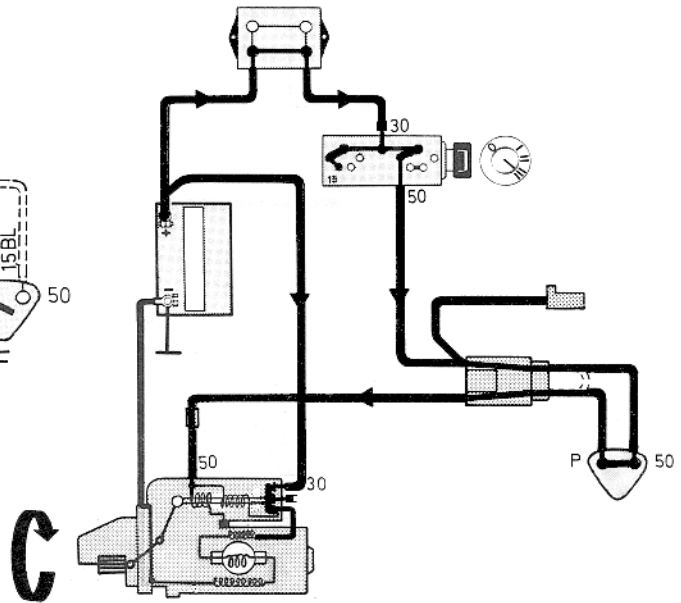


Starting circuit

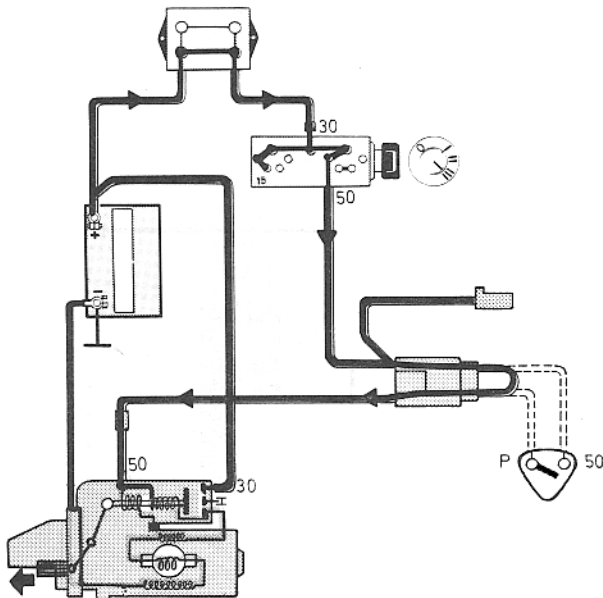
- A Connector
- B Service socket for starting engine
- C Ignition switch
- D Starter motor
- E 1 junction (man. gearbox)
2 junction (auto)
- F Start inhibitor switch (auto)



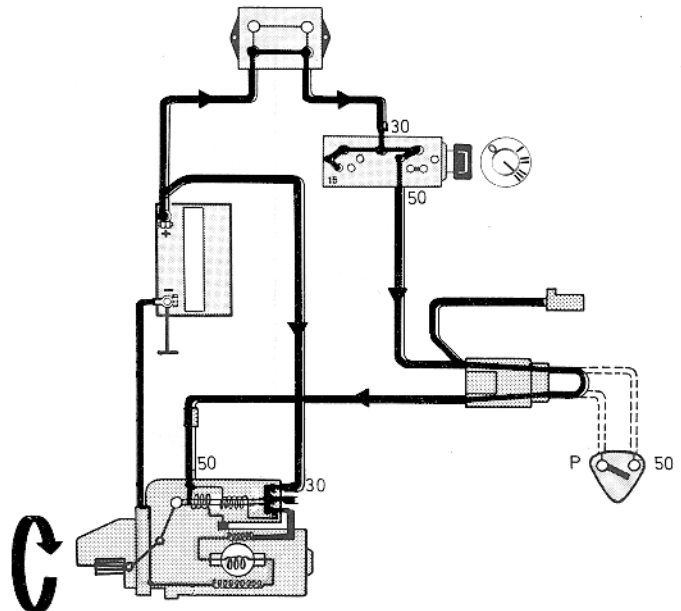
On auto-drive vehicles, the start inhibitor switch F must be closed if the starter motor is energized.



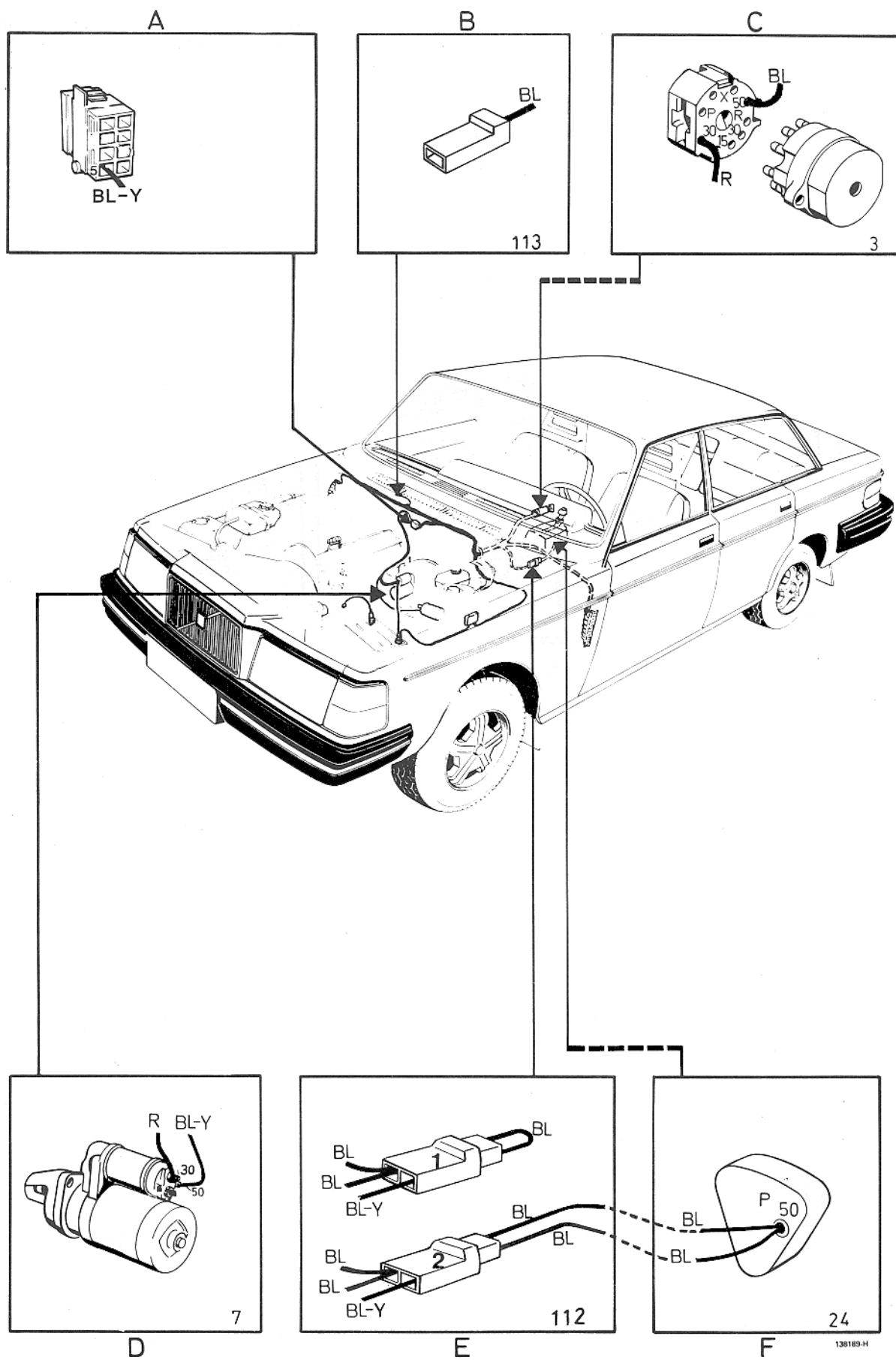
Control magnet pushes starter pinion to mesh with ring gear



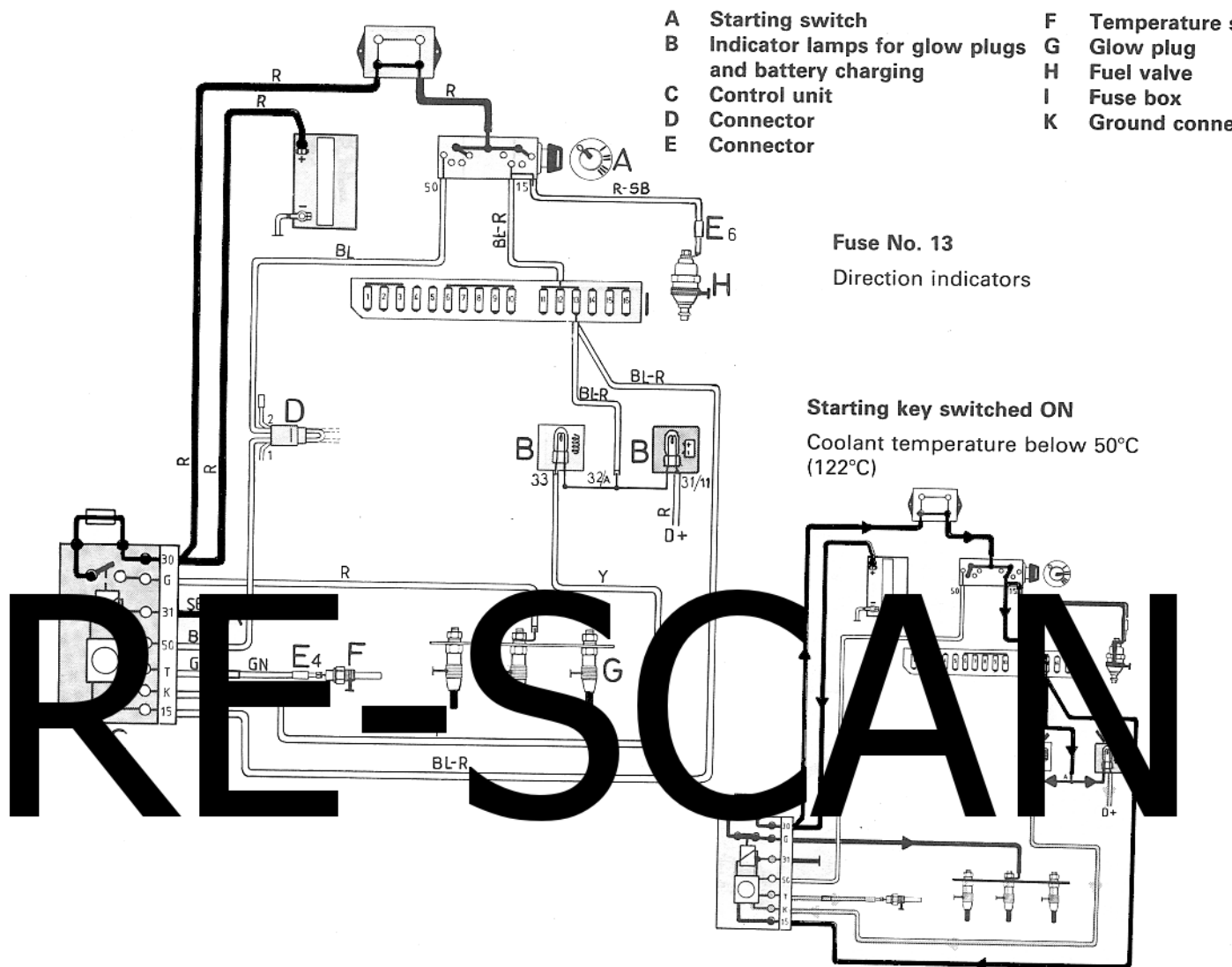
Stator pinion in mesh, contacts closed and starter motor operates



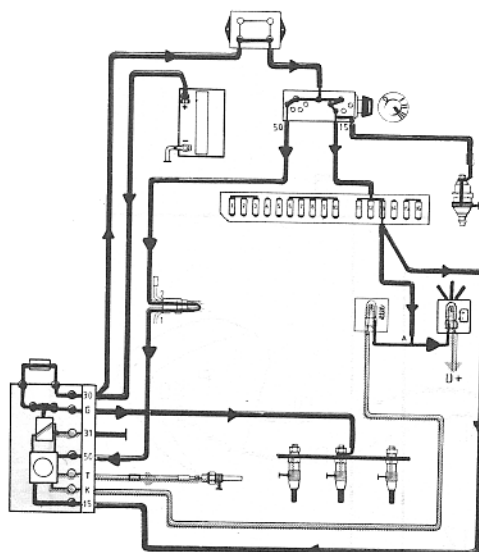
Starting circuit



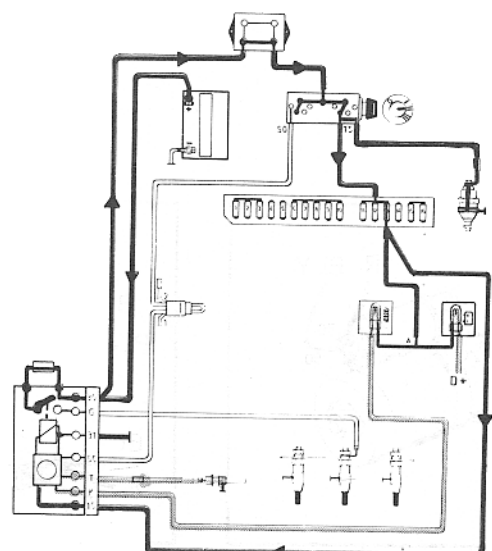
Glow plugs (pre-heating system) diesel, 240



Starter motor connected

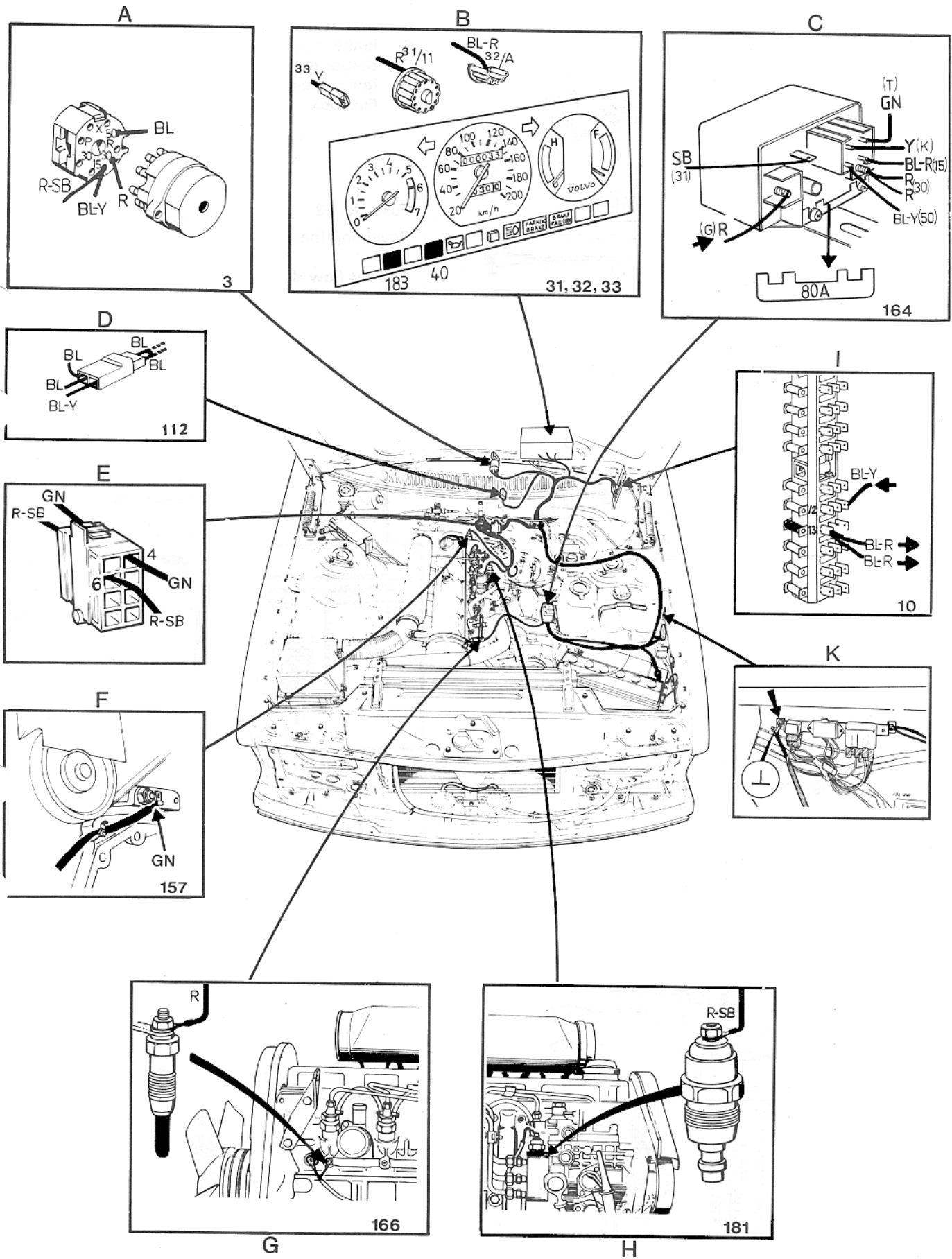


Engine running

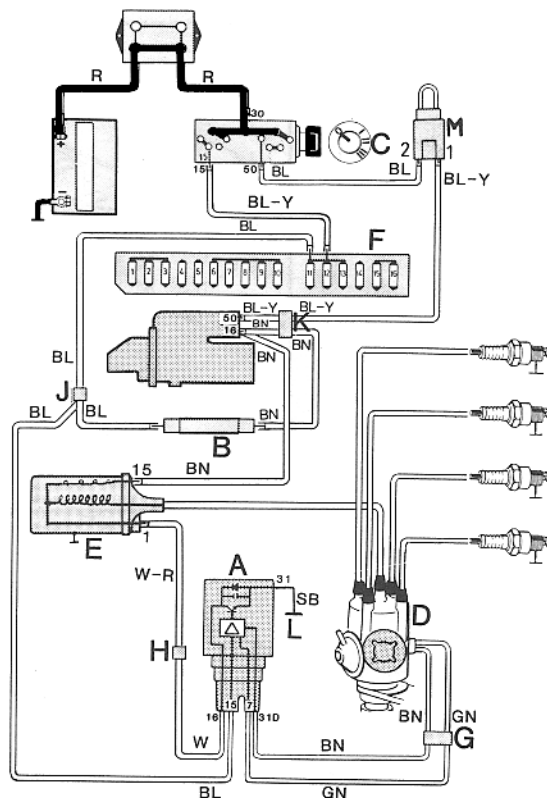


131663-V

Glow plugs (pre-heating system) diesel, 240



Ignition system, Turbo (TSZ-2)

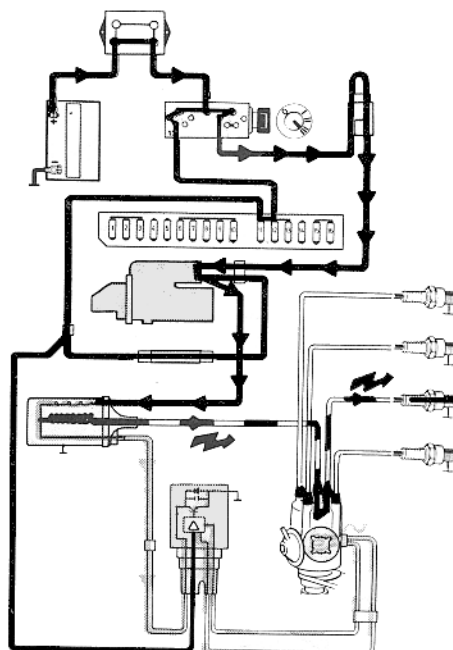


- | | | | |
|---|------------------|---|-------------------|
| A | Control unit | G | Connector |
| B | Ballast resistor | H | Connector |
| C | Ignition switch | J | Connector |
| D | Distributor | I | Connector |
| E | Ignition coil | L | Ground connection |
| F | Fusebox | M | Connector |

Fuse No. 12

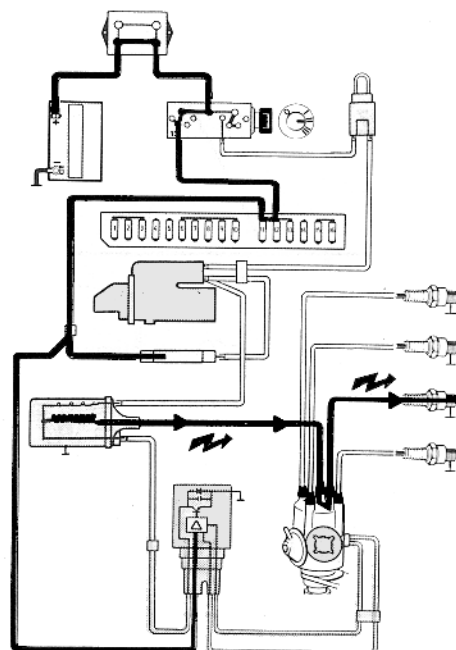
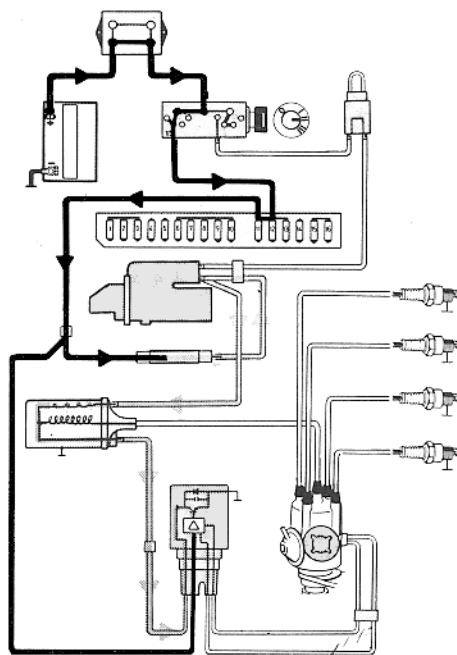
Reversing (back-up) lights

Current flow during start

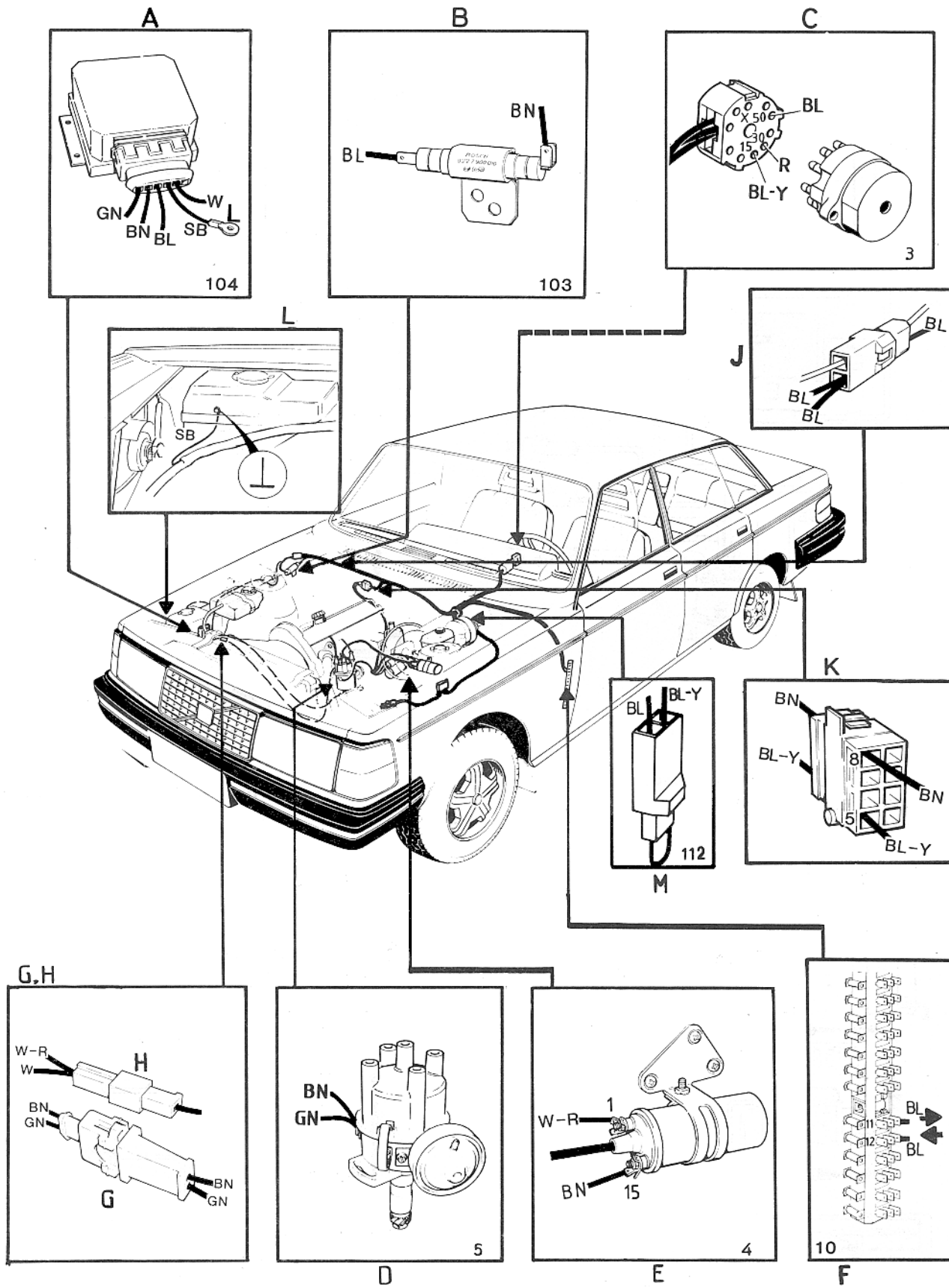


Current flows through control unit and ignition coil is energized

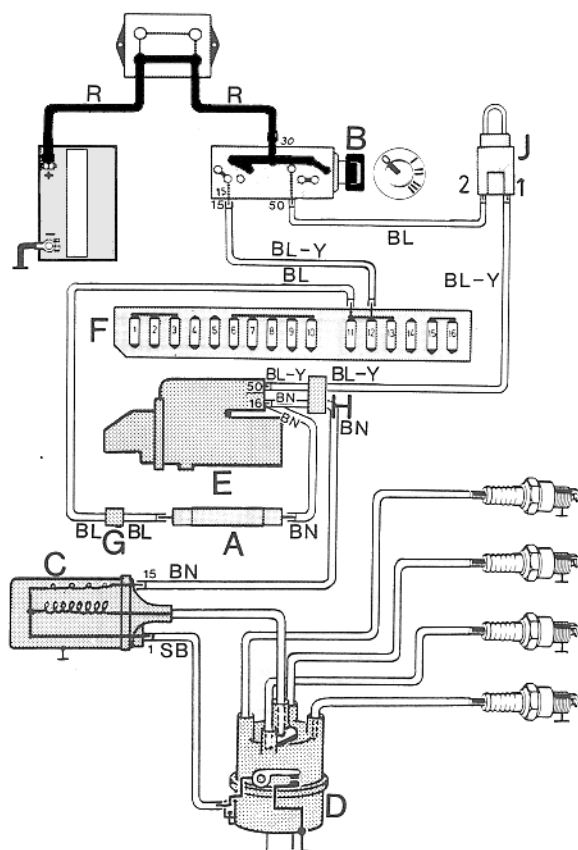
Control unit interrupts current flow and ignition coil discharges



Ignition system, Turbo (TSZ-2)



SZ ignition system with contact breaker



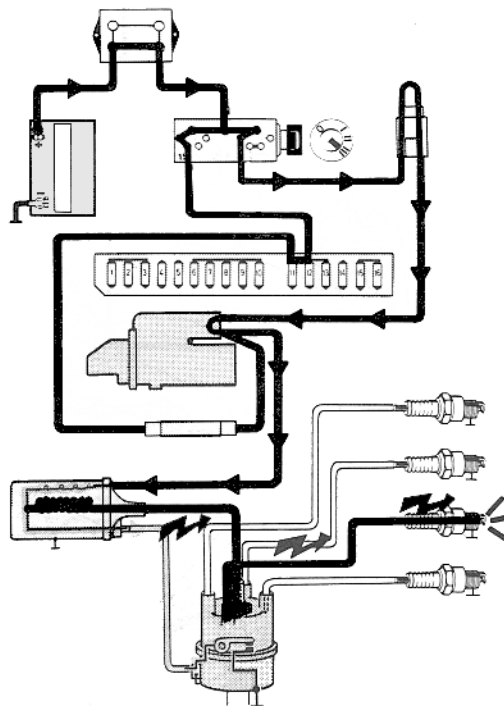
- A Ballast resistor
- B Ignition switch
- C Ignition coil
- D Distributor
- E Starter motor

- F Fusebox
- G Connector
- H Connector
- J Connector

Fuse No. 12

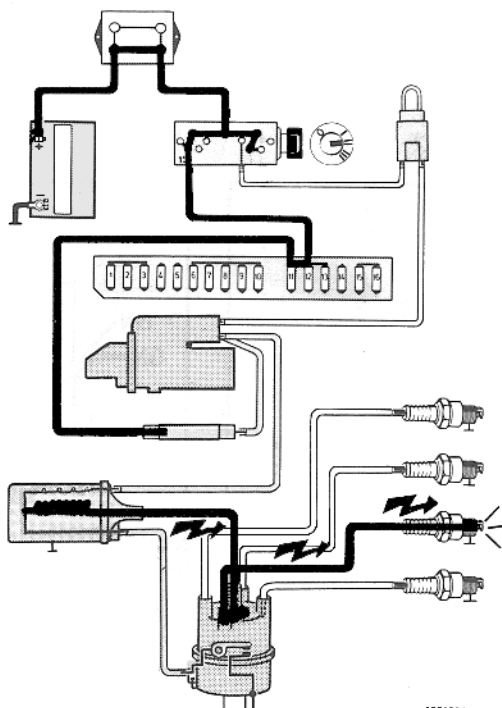
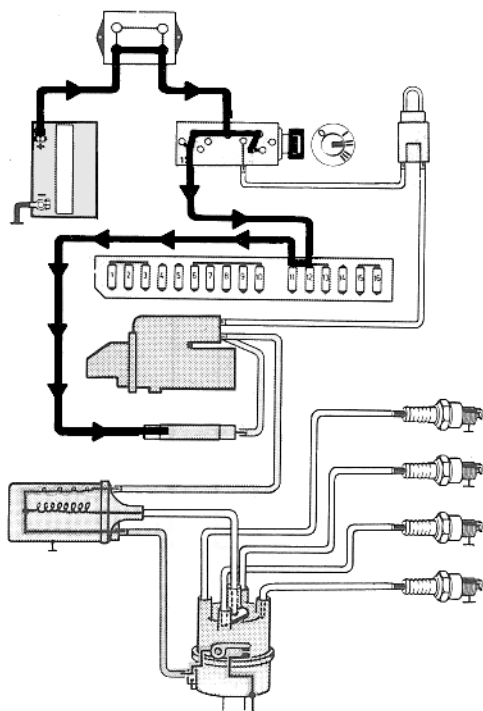
Reversing (back-up) lights

Current flow during ignition

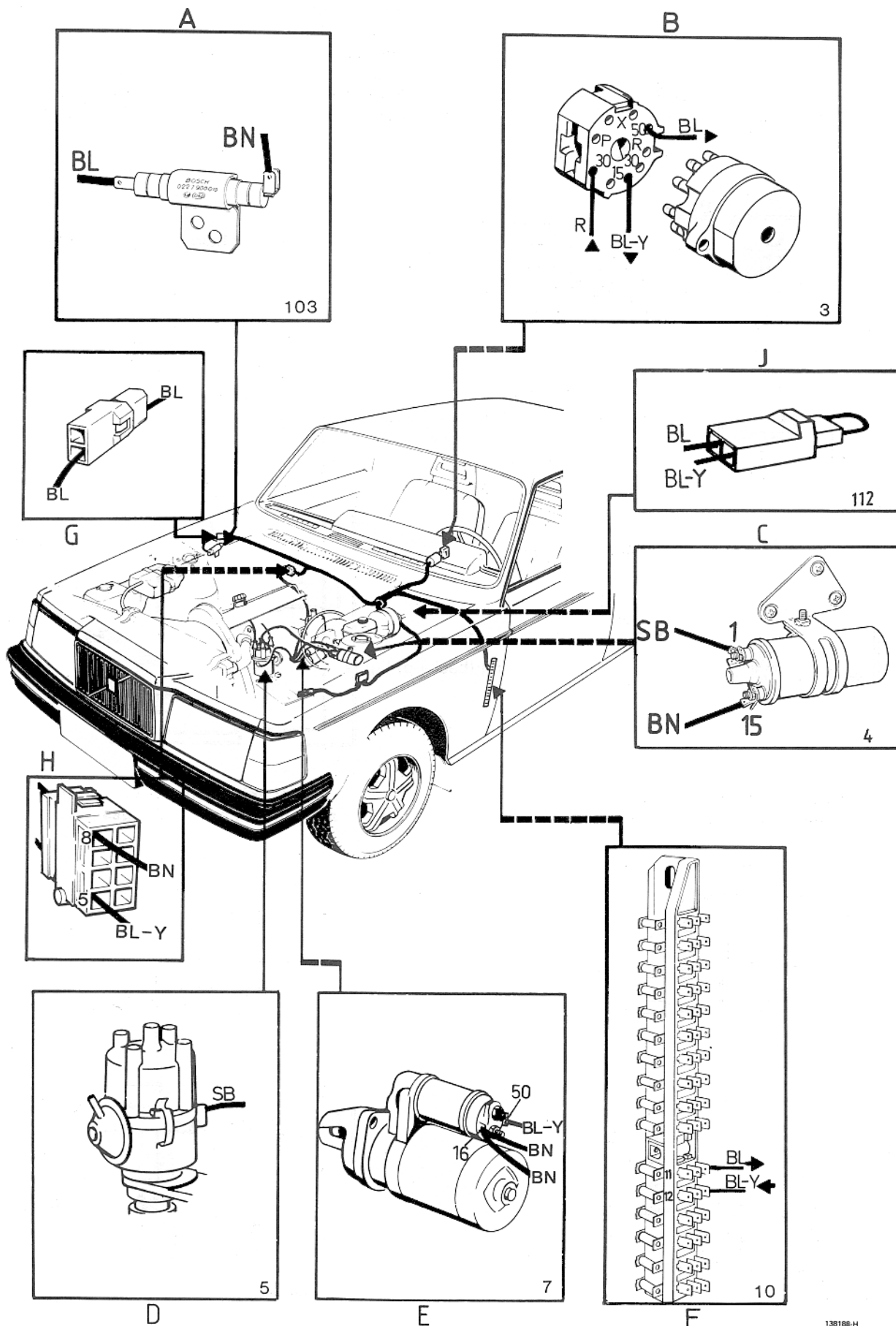


Contact breaker points open and interrupt current flow, ignition coil discharges

Current flows through contact breaker points, ignition coil is energized

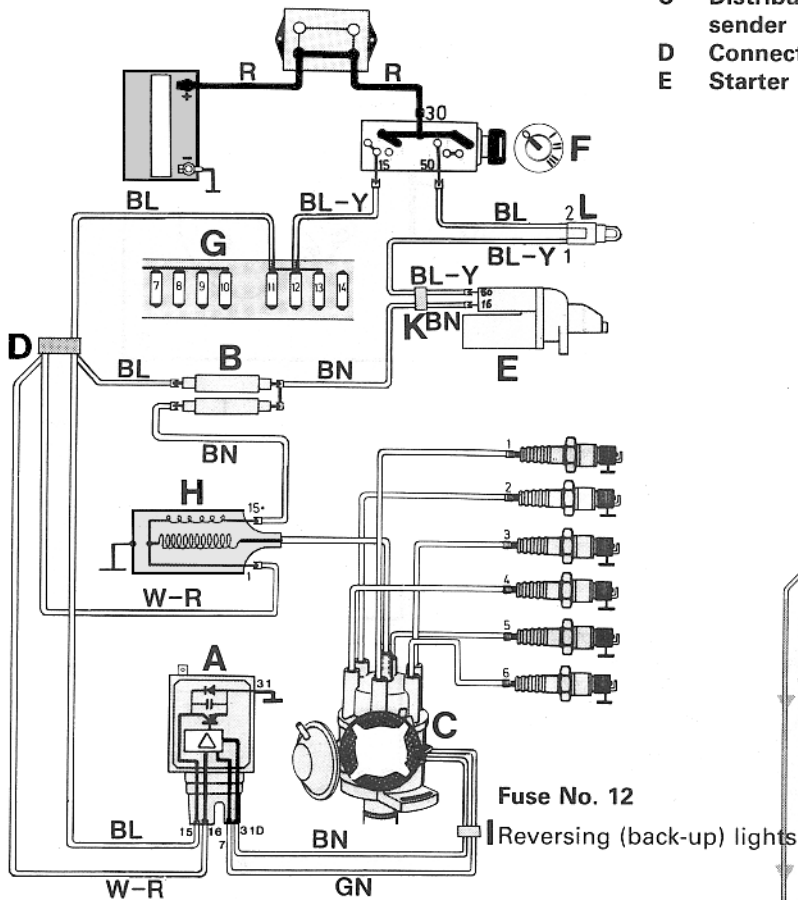


SZ ignition system with contact breaker

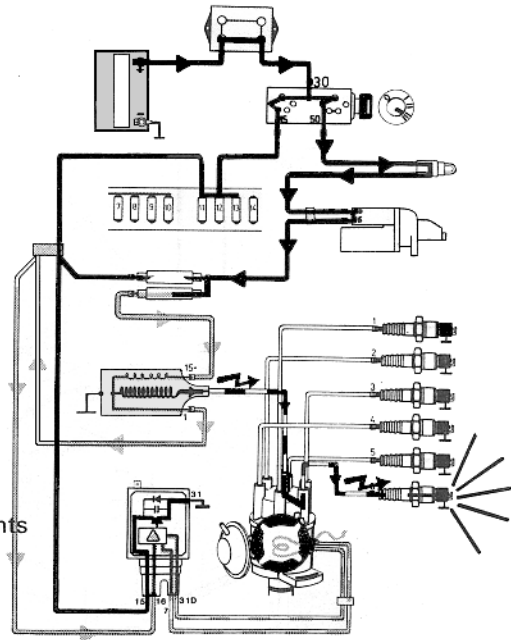


TSZ-4 ignition system, 6-cyl.

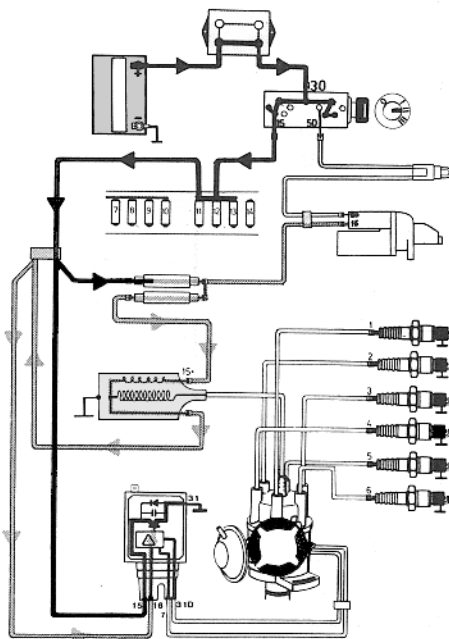
- | | | | |
|---|---------------------------------|---|-----------------|
| A | Control unit | F | Ignition switch |
| B | Ballast resistor | G | Fusebox |
| C | Distributor with impulse sender | H | Ignition coil |
| D | Connector | I | Connector |
| E | Starter motor | K | Connector |
| | | L | Connector |



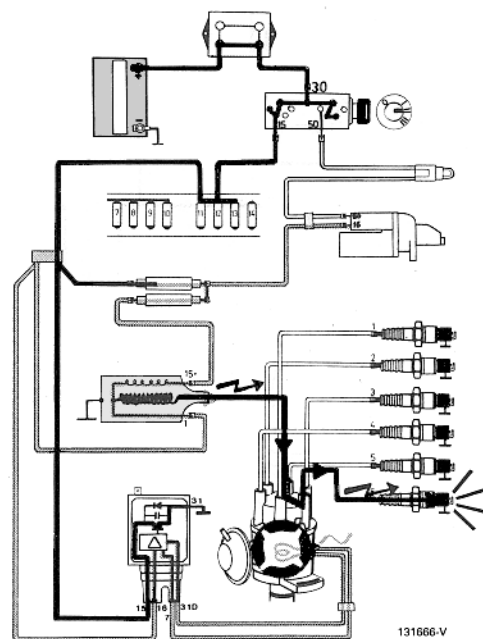
Current flow during ignition



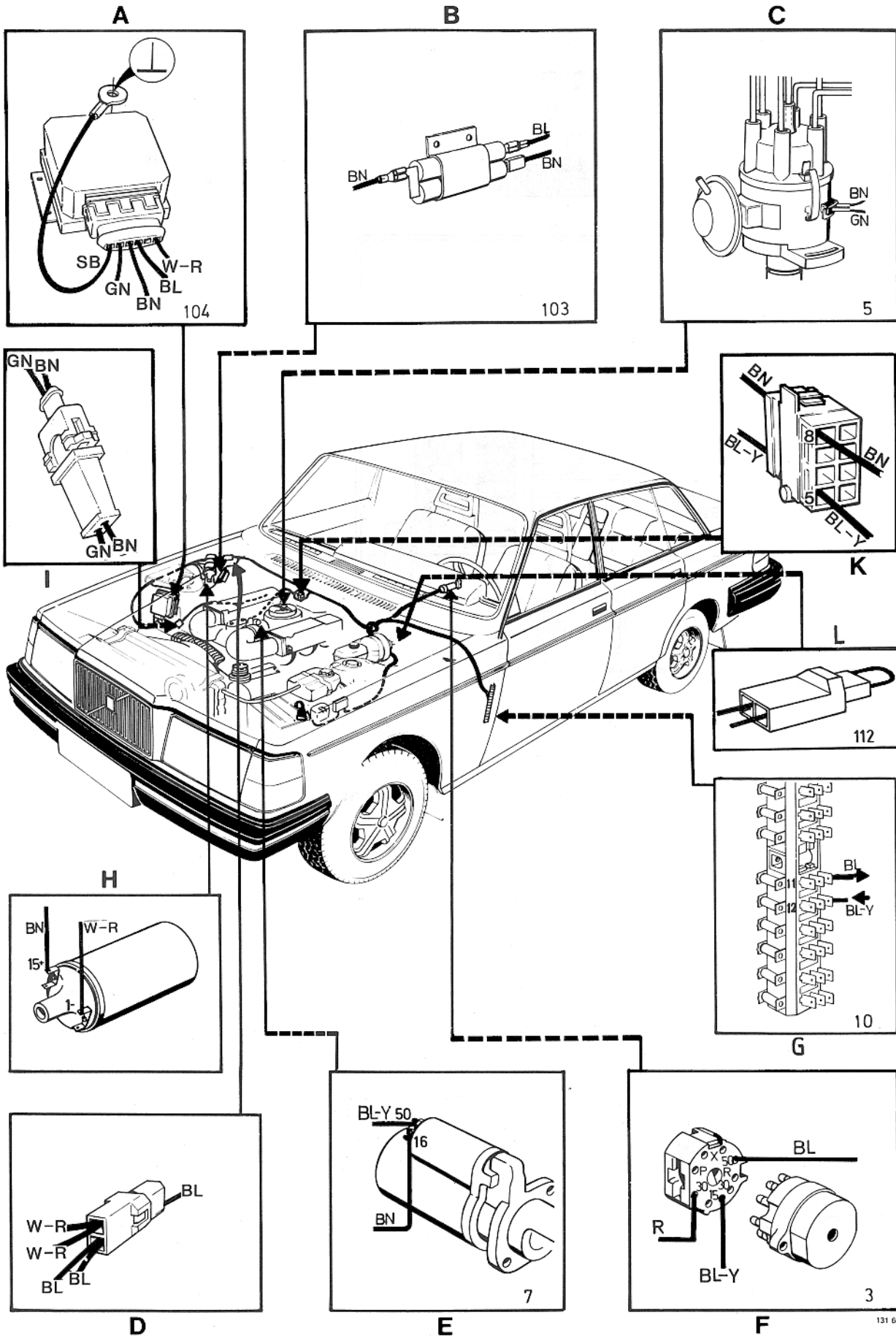
Current flows through control unit and ignition coil is energized



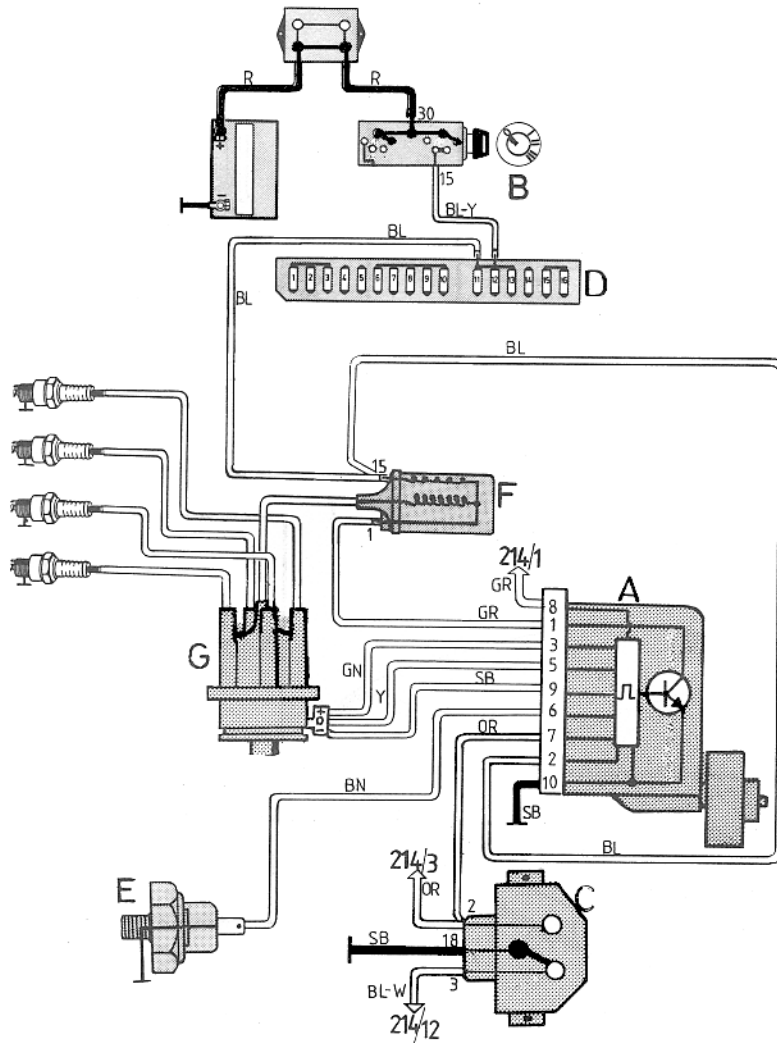
Control unit interrupts current flow and ignition coil discharges



TSZ-4 ignition system, 6-cyl.



Chrysler computerized ignition system (DL, GL)

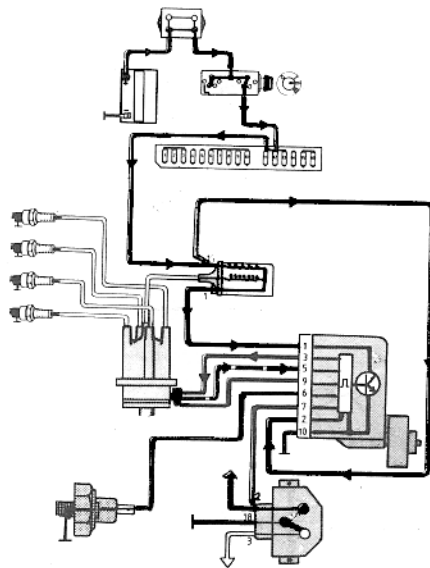


- A Control unit
- B Ignition switch
- C Breaker unit
- D Fusebox
- E Knock sensor
- F Ignition coil
- G Distributor
- 214 Control Unit LH Jetronic

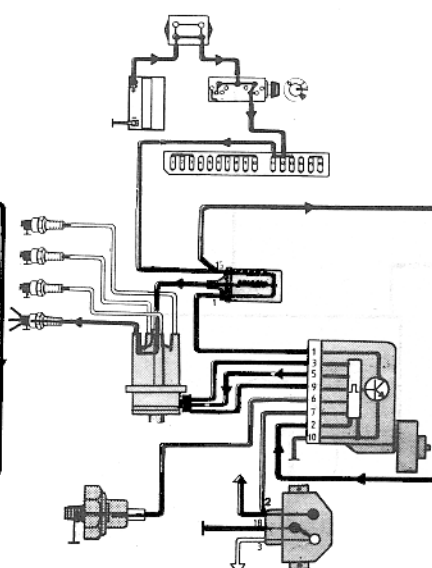
Fuse No. 11

Heated rear window
Overdrive

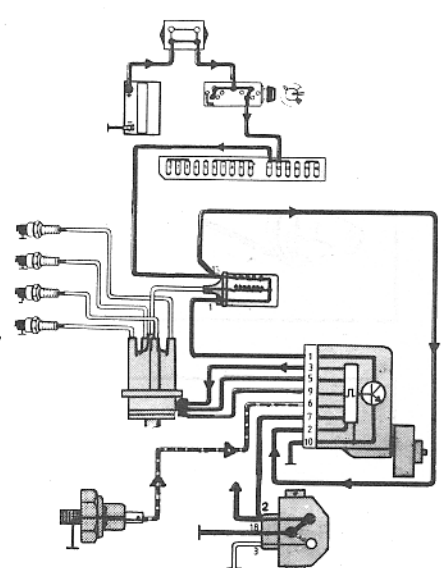
Current flows through control unit
Ignition coil energized



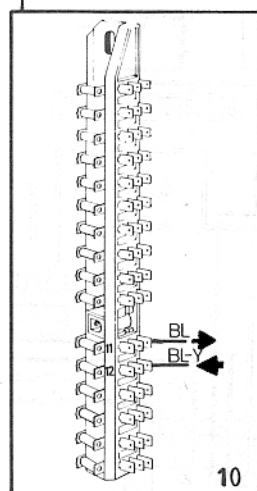
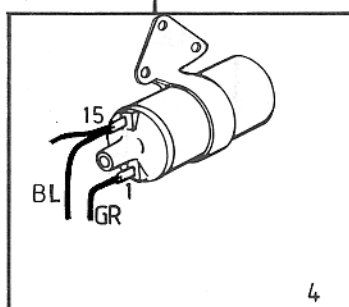
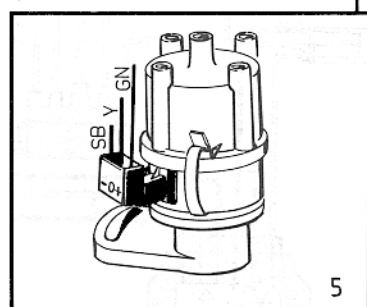
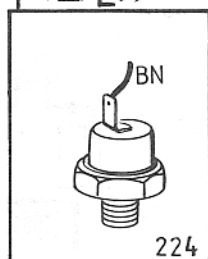
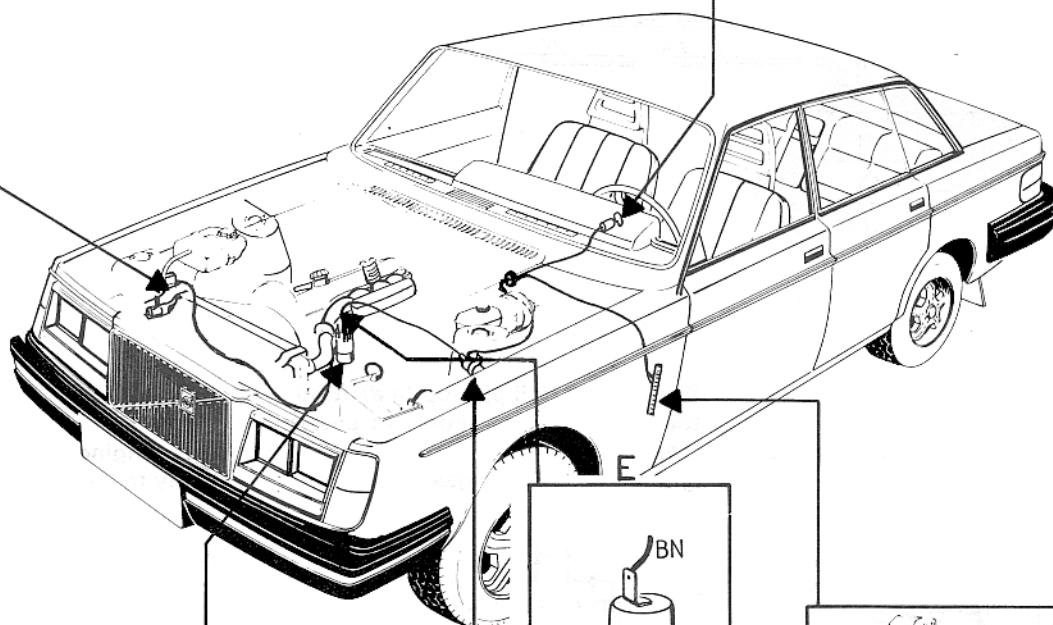
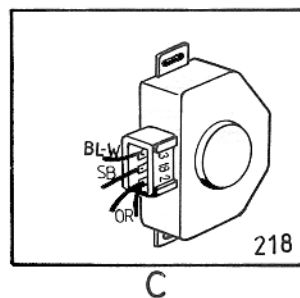
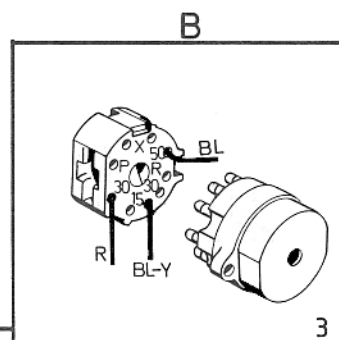
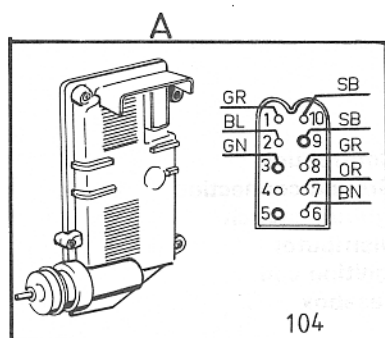
Control unit cuts off current
Ignition coil discharges



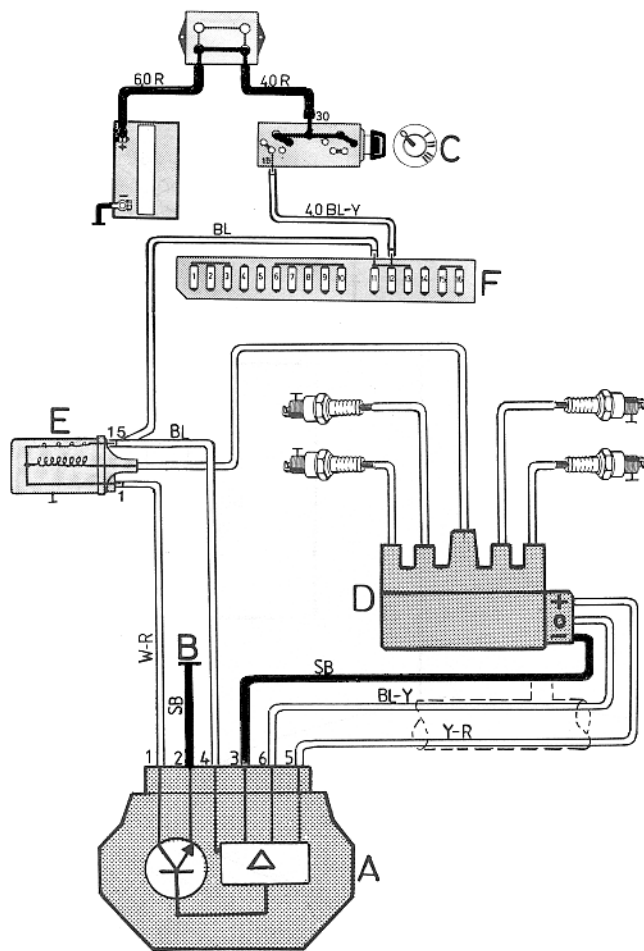
Knock sensor activated
Ignition retarded



Chrysler computerized ignition system (DL, GL)



Ignition system, TZ-28H

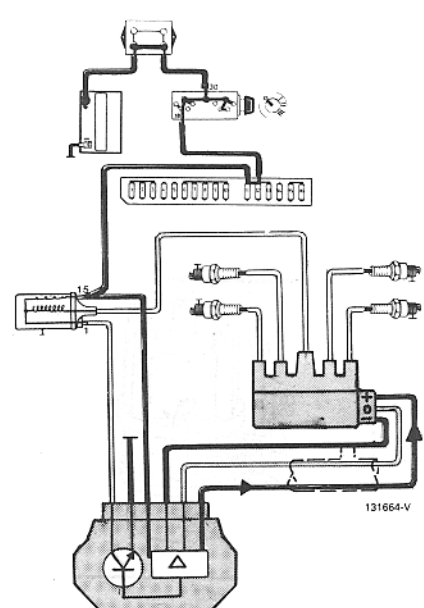
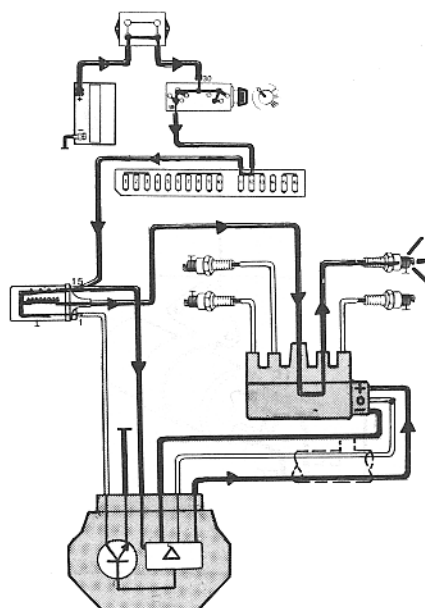
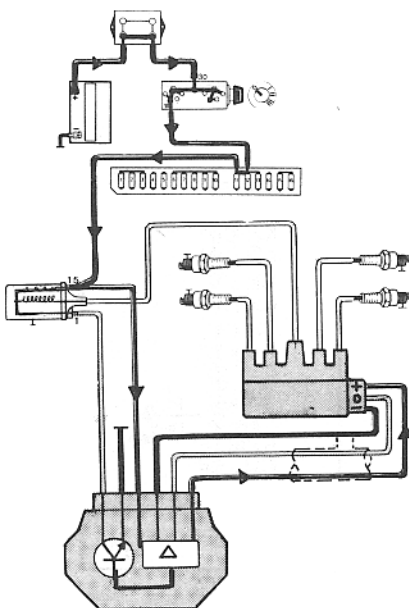


- A Control unit
- B Ground connection
- C Ignition switch
- D Distributor
- E Ignition coil
- F Fusebox

Current flows through control unit
Ignition coil energized

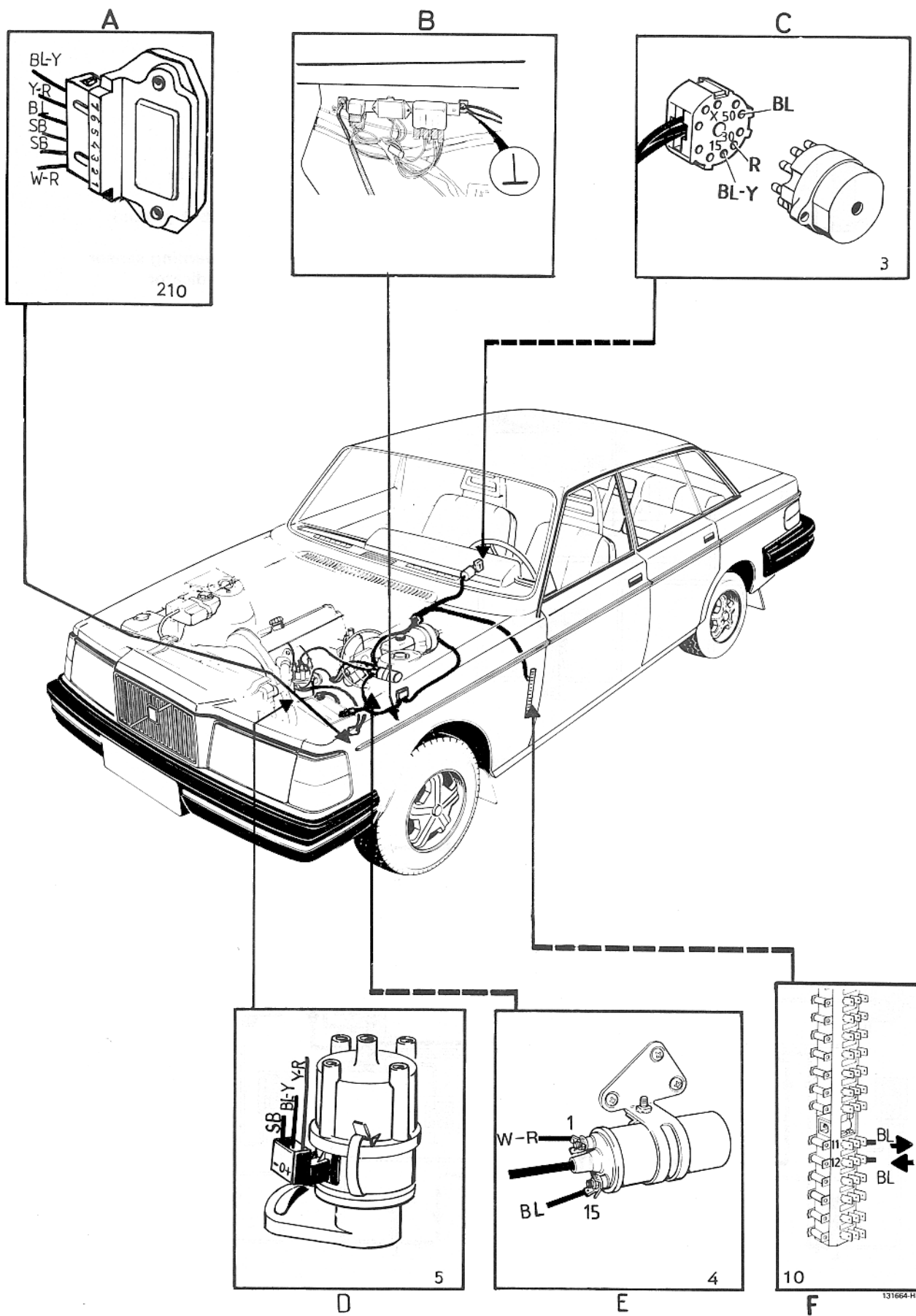
Signal from Hall pick-up in distributor
breaks current supply to power
stage
Ignition coil discharges

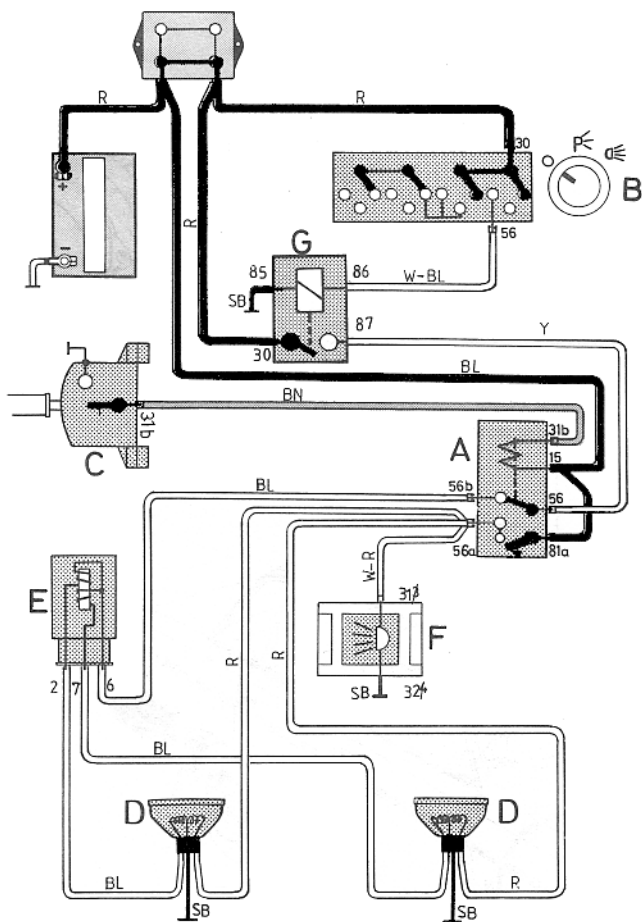
With engine turned off, current
supply to coil is cut after 1 sec.



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Ignition system, TZ-28H



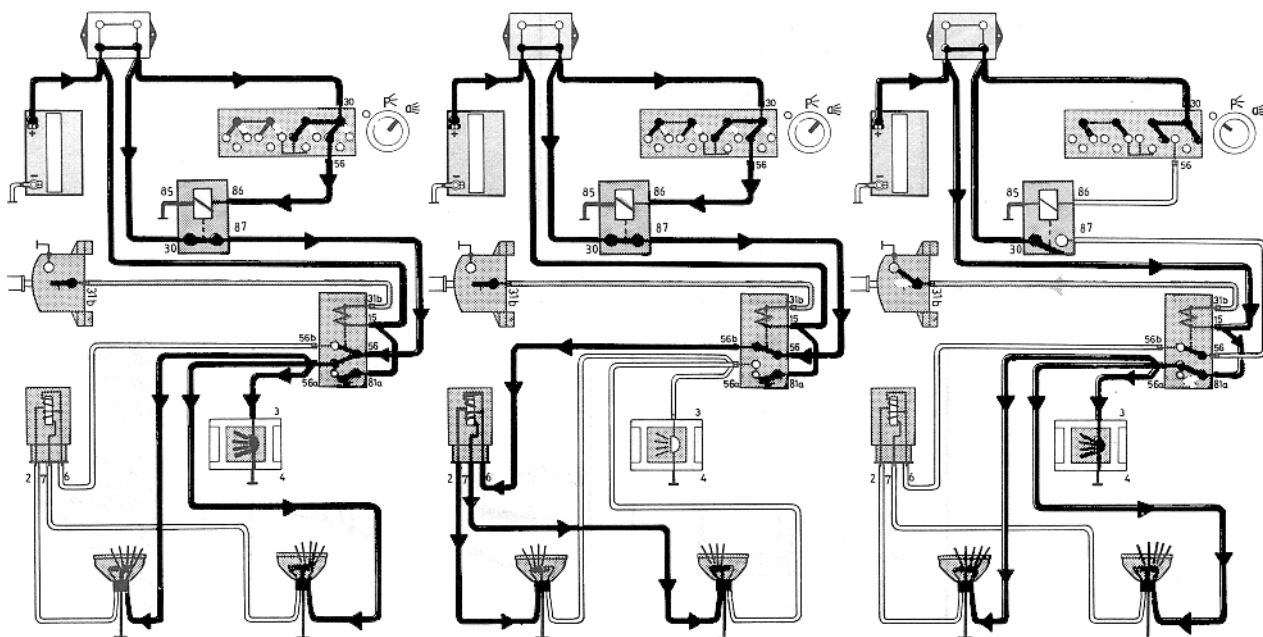


- A Step relay
- B Light switch
- C Direction indicator switch
- D Headlight bulb & ground connections
- E Bulb failure warning sensor
- F Main beam indicator light

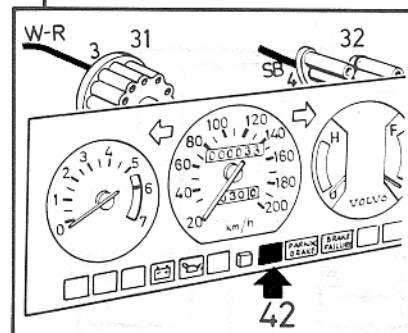
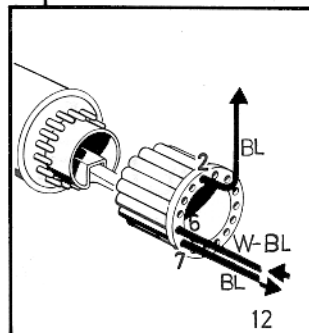
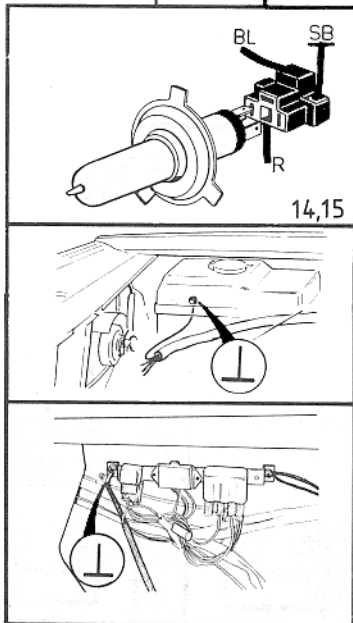
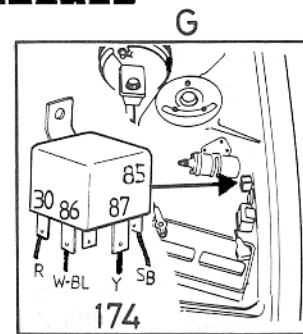
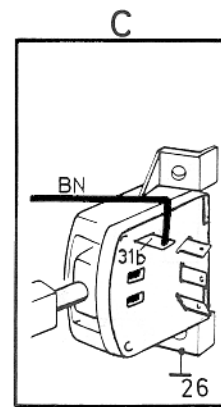
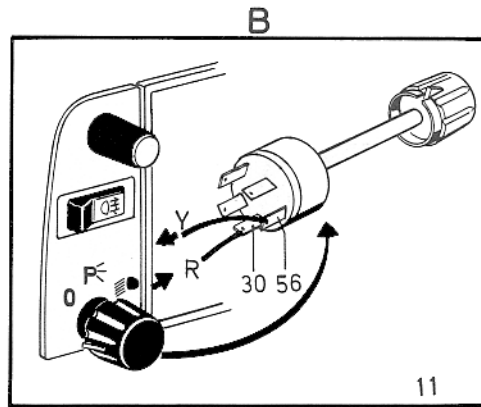
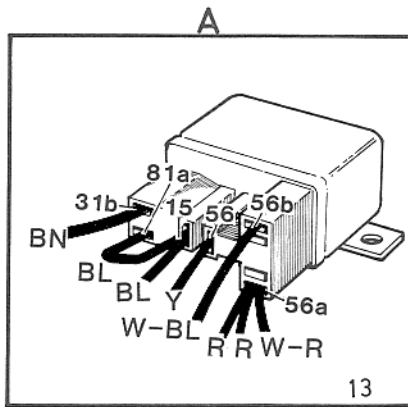
Main beams

Dipped beams

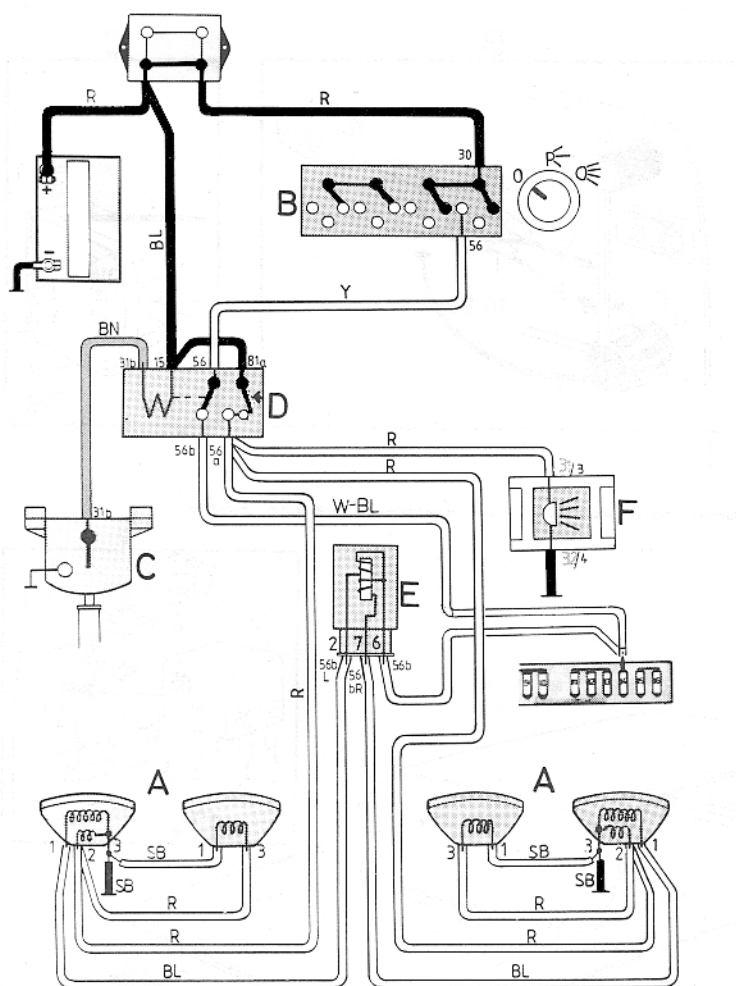
Headlight flasher



Main/Dipped beams

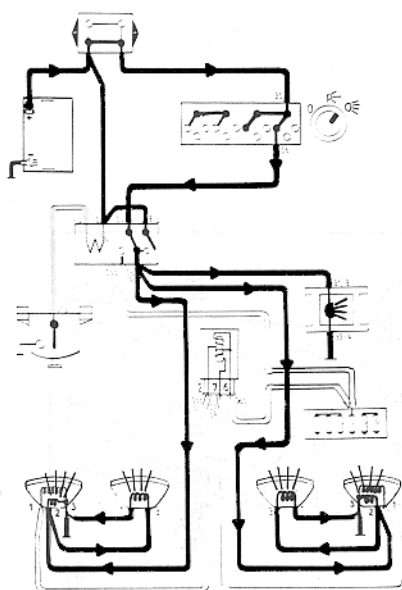


High/Low beams (USA)

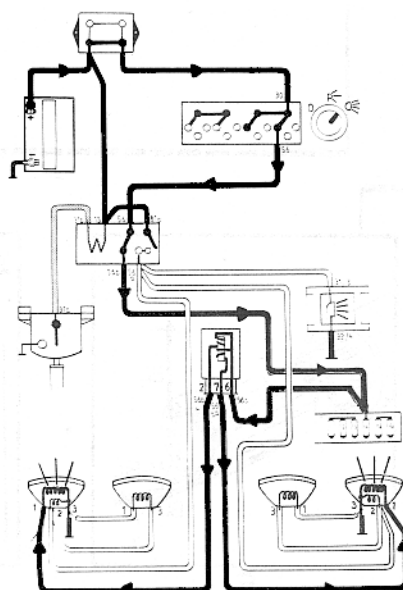


- A Headlamps + ground connections
- B Light switch
- C Direction indicator switch
- D Step relay
- E Bulb failure warning sensor
- F Main beam indicator light

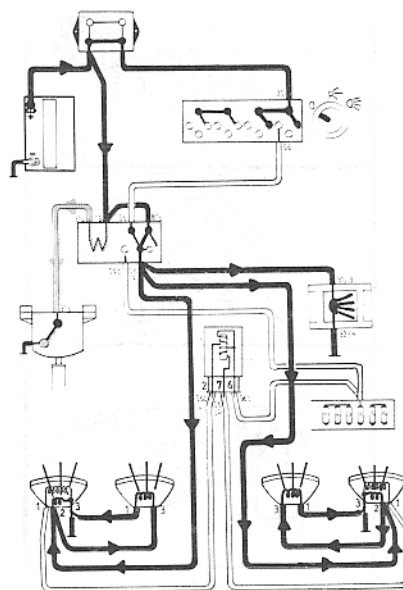
High beam



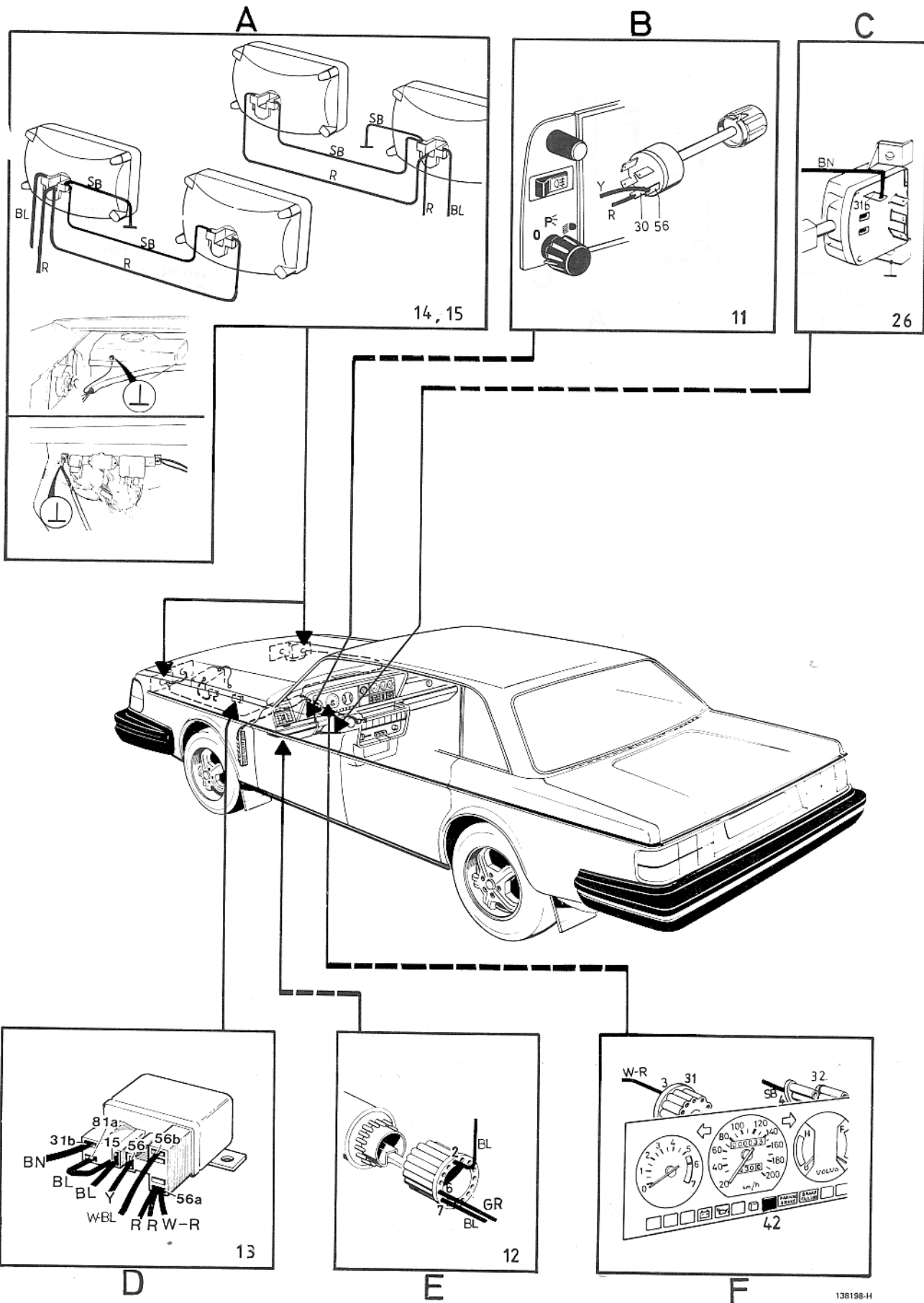
Low beam



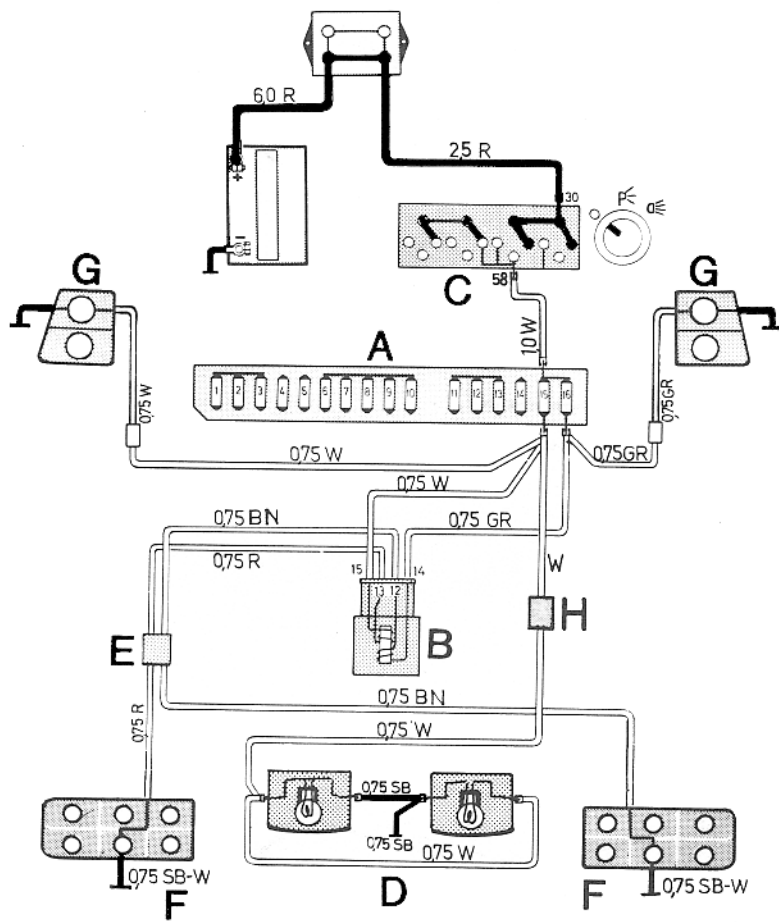
Headlight flasher



High/Low beams (USA)



Parking lights, tail lights and number plate (license plate) lights

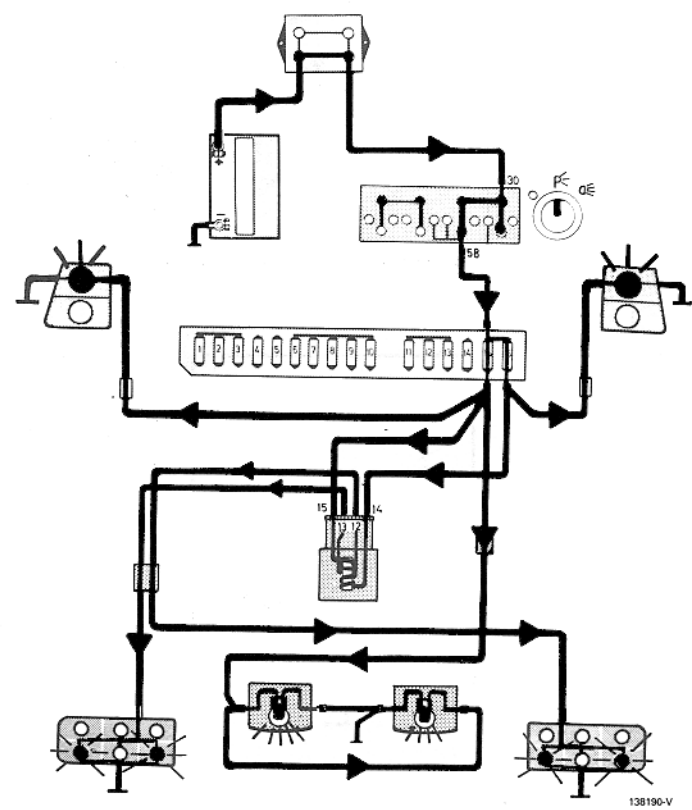


- A Fusebox
- B Bulb failure warning sensor
- C Light switch
- D Number plate light
- E Connector
- F₁ Tail light
- F₂ Tail light with rear fog light
- G Parking light
- H Connector

Fuse No. 15
No other function

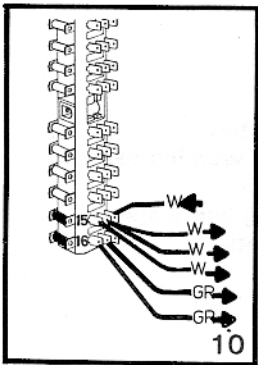
Fuse No. 16
Instrument and panel lighting

Lighting ON

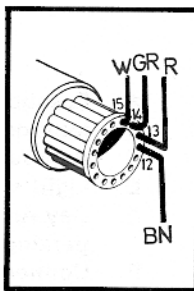


Parking lights, tail lights and number plate (license plate) lights

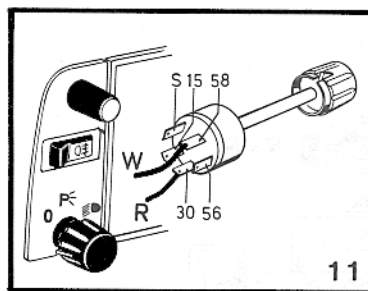
A



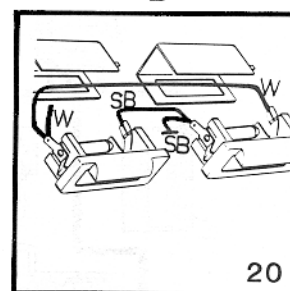
B



C

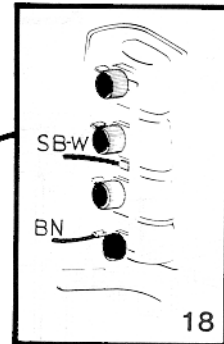


D

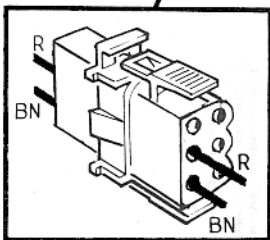


G
16

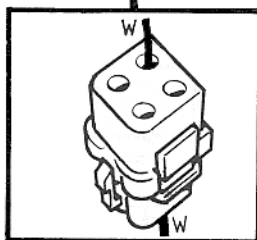
G
16



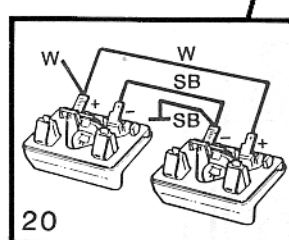
F



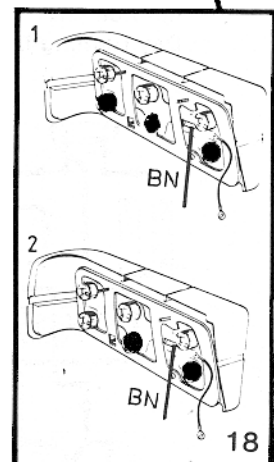
E



H



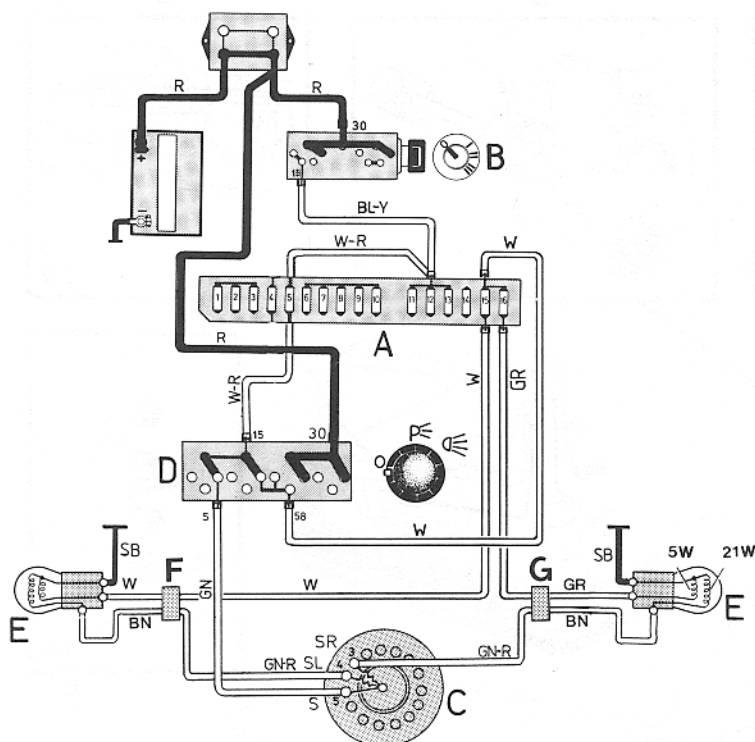
D



F

Day running lights

(some markets)



- A Fusebox
- B Ignition switch
- C Bulb failure warning sensor
- D Light switch
- E Day running lights and parking lights
- F Connector
- G Connector

Fuse No. 5

No other functions

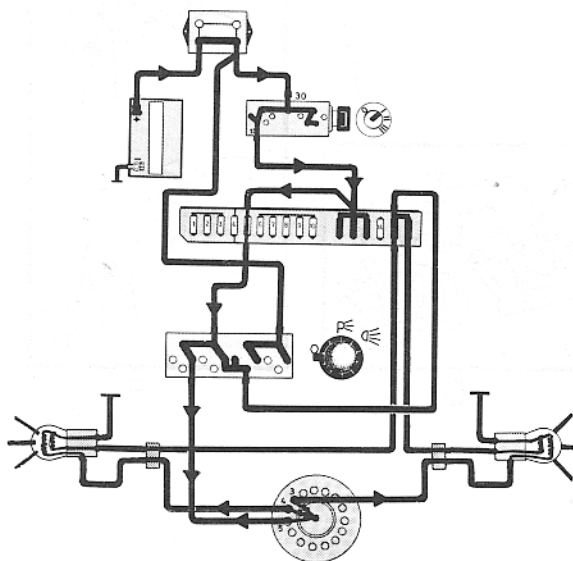
Fuse No. 15

Numberplate light

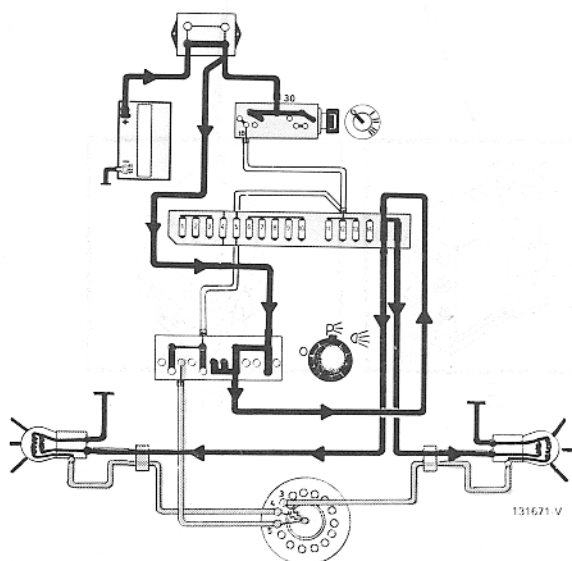
Fuse No. 16

Lighting, instruments and controls

**Ignition ON
Day running lights ON**



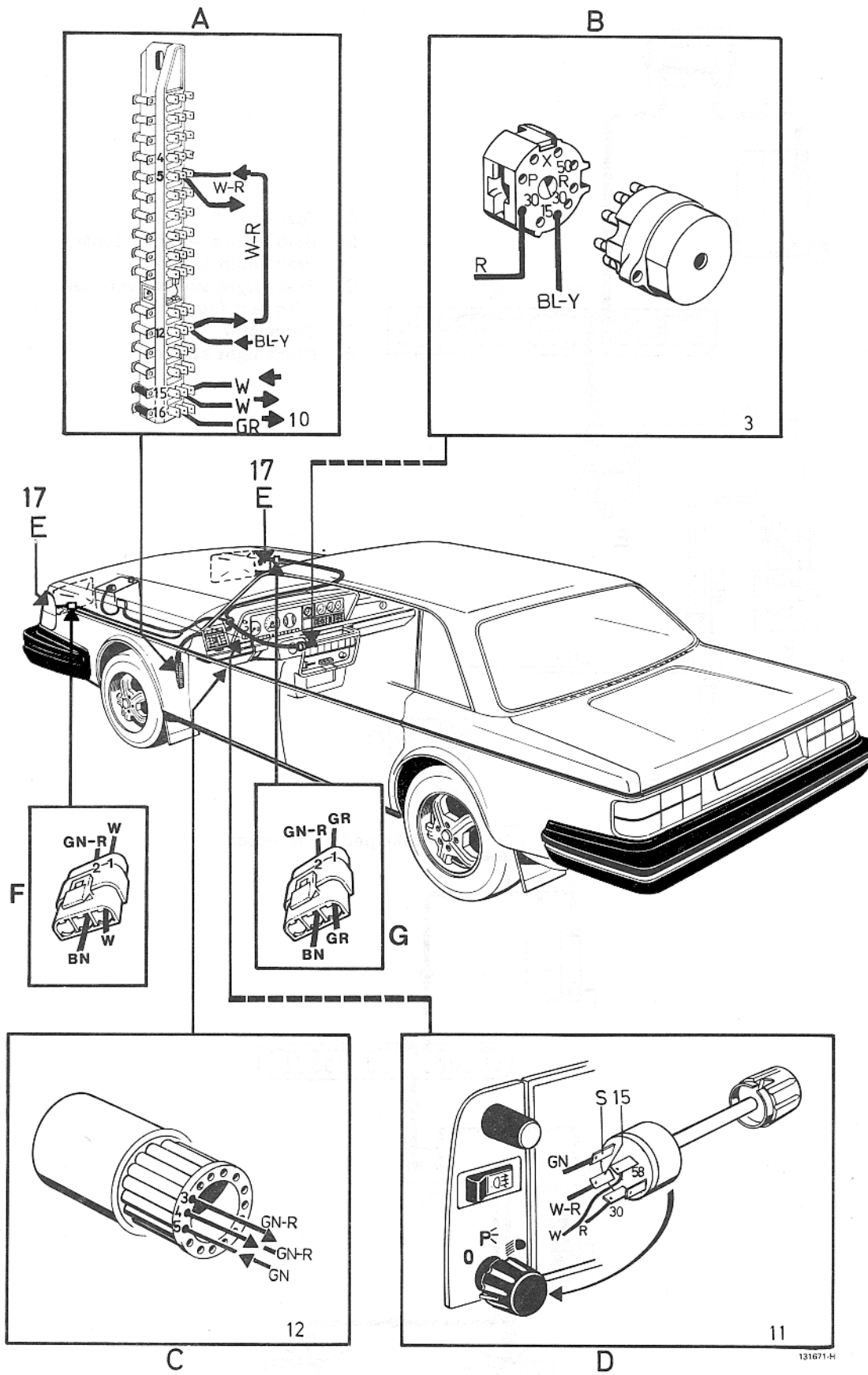
**Ignition OFF, parking lights ON.
Parking lights grounded via day
running lights**



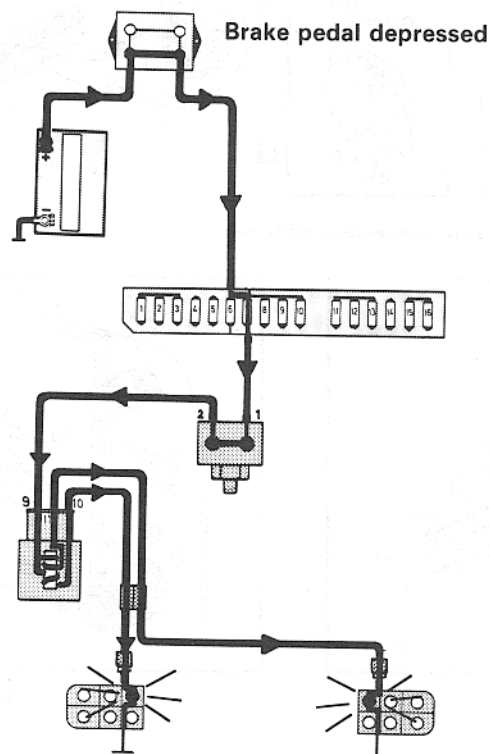
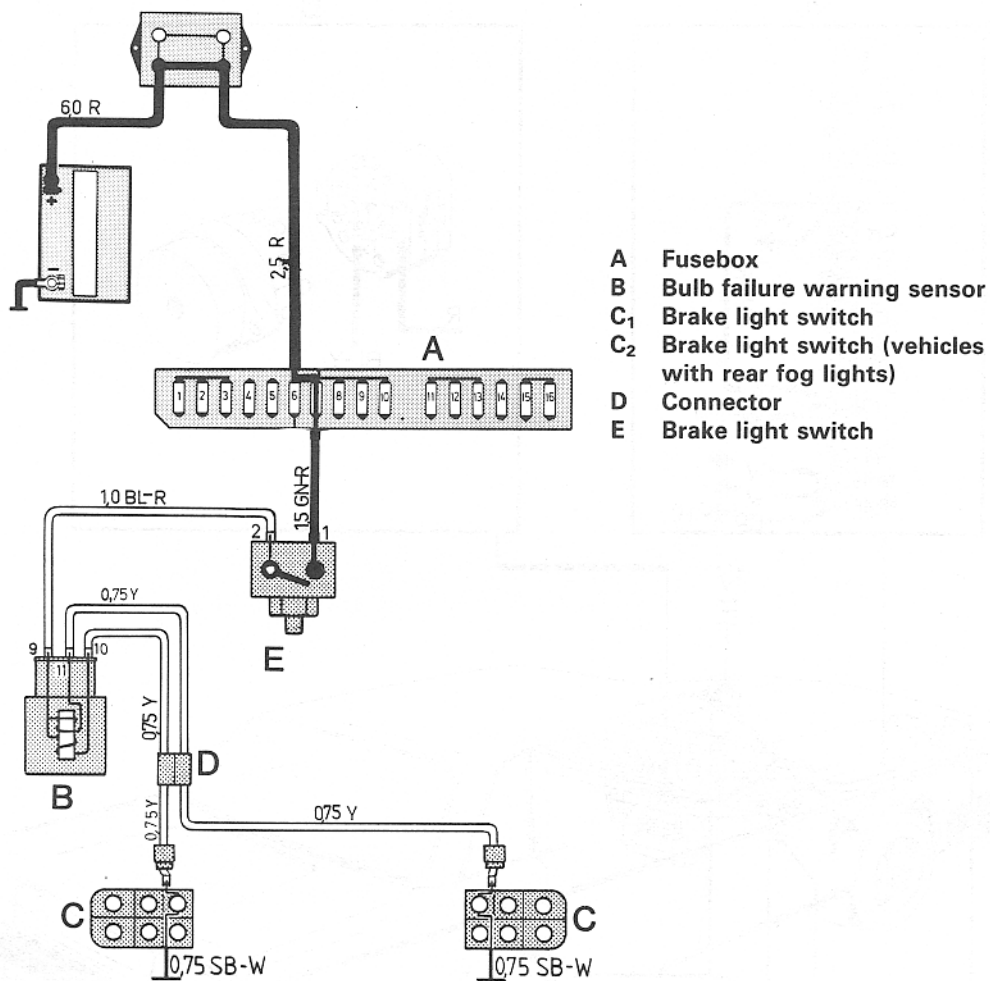
131671-V

Day running lights

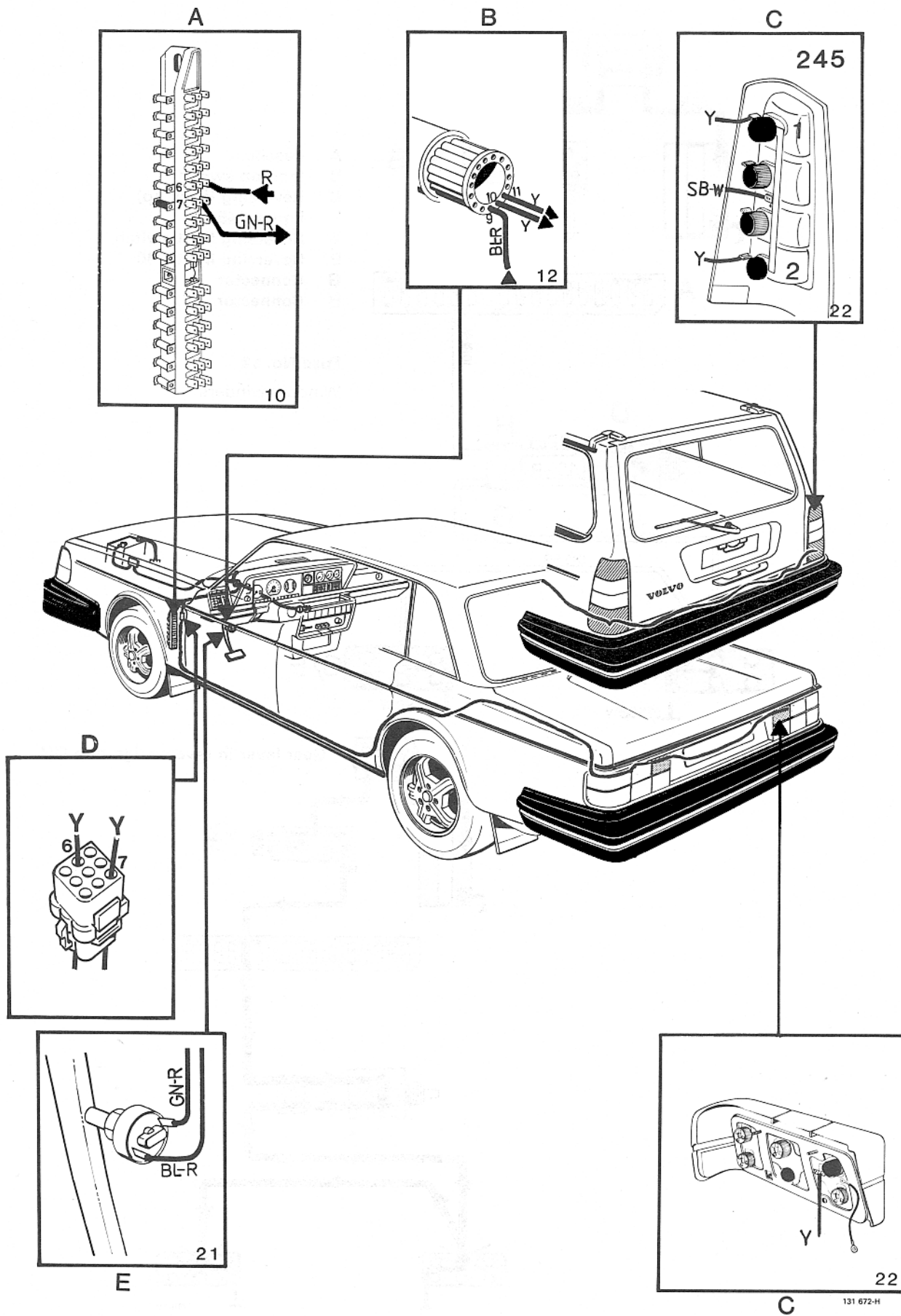
(some markets)



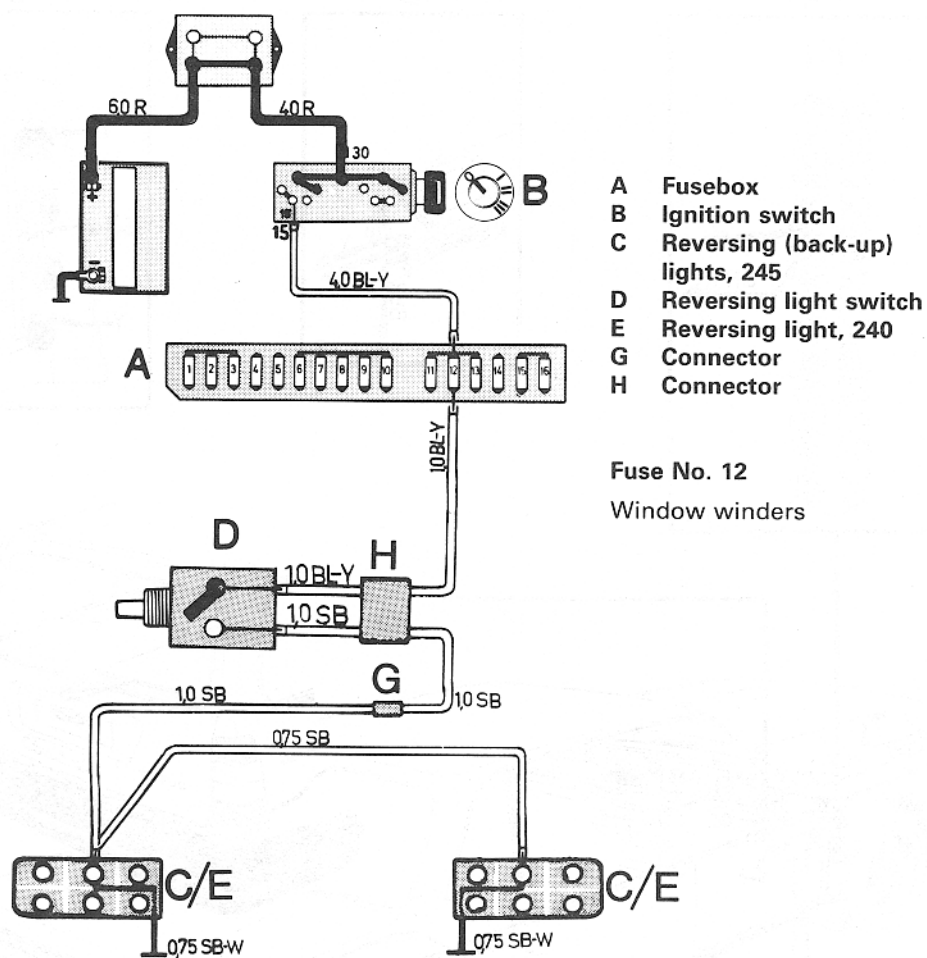
Brake lights



Brake lights

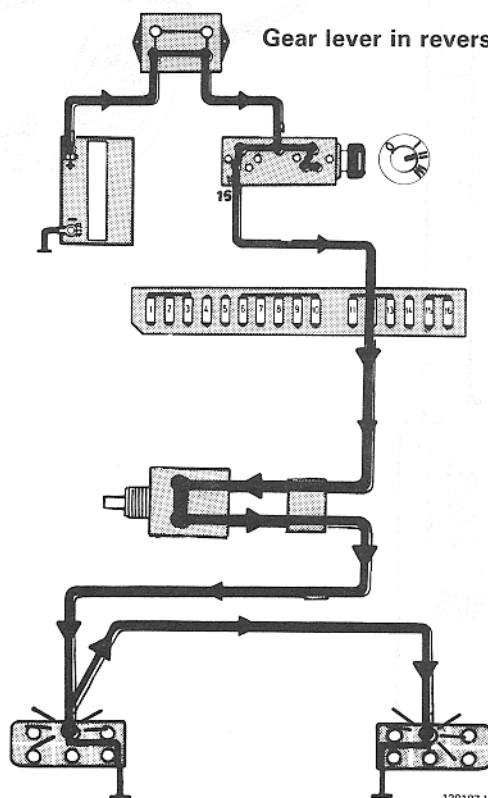


Reversing (back-up) lights, manual gearbox

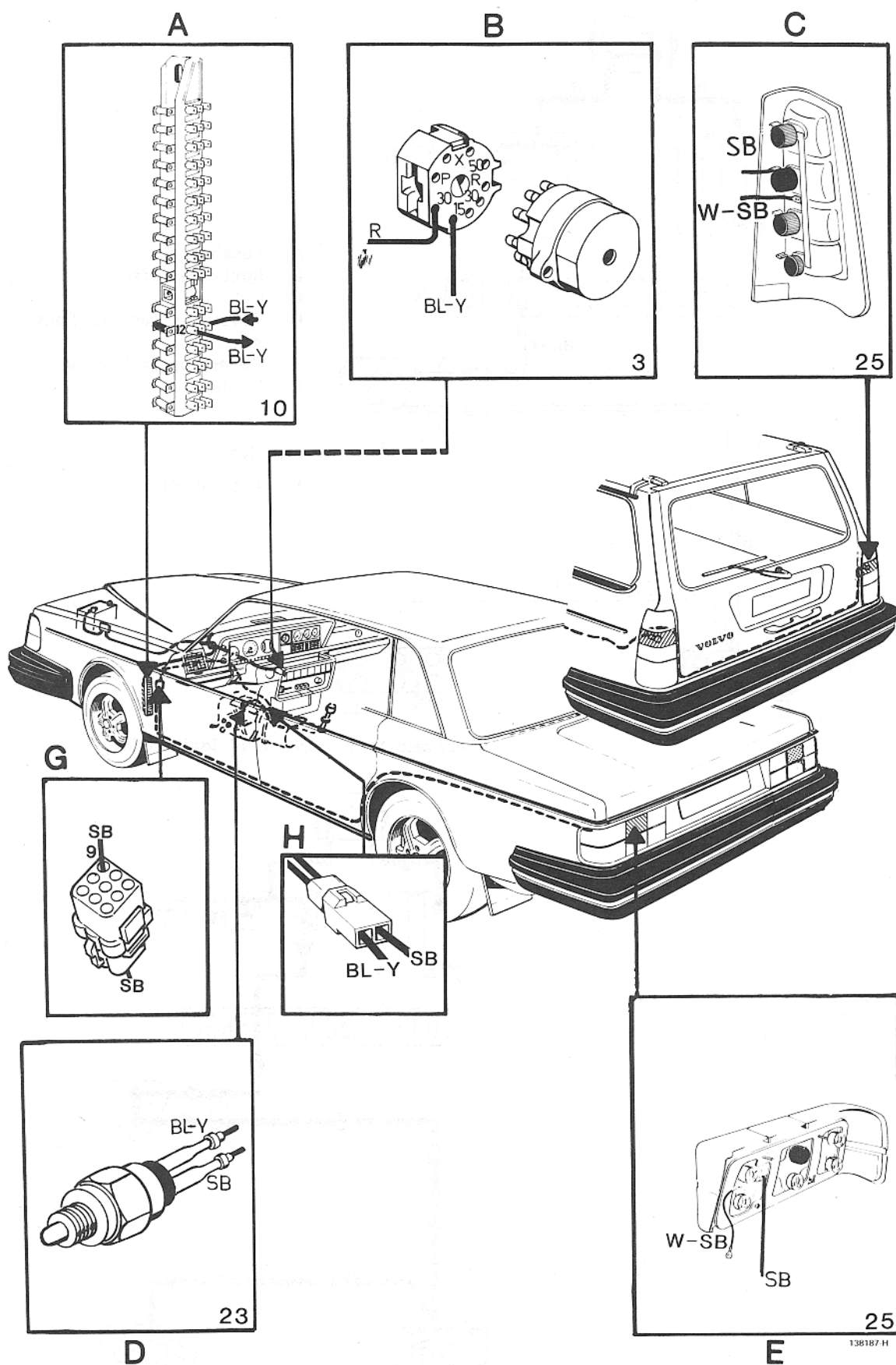


Fuse No. 12
Window winders

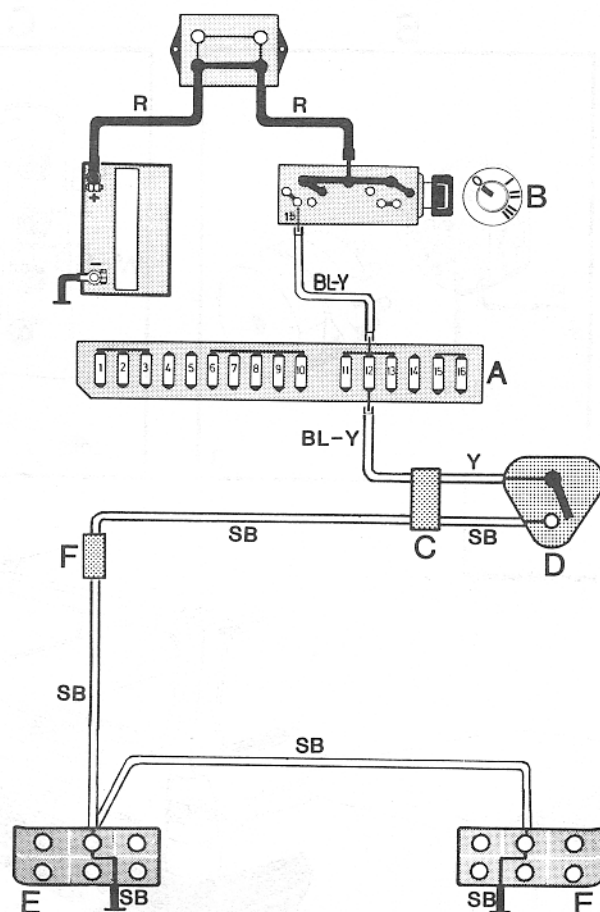
Gear lever in reverse, ignition ON



Reversing (back-up) lights, manual gearbox



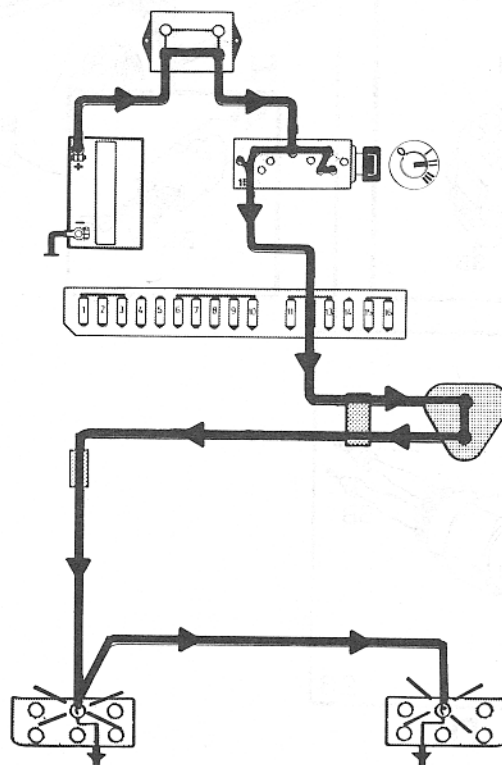
Reversing (back-up) lights, automatic transmission



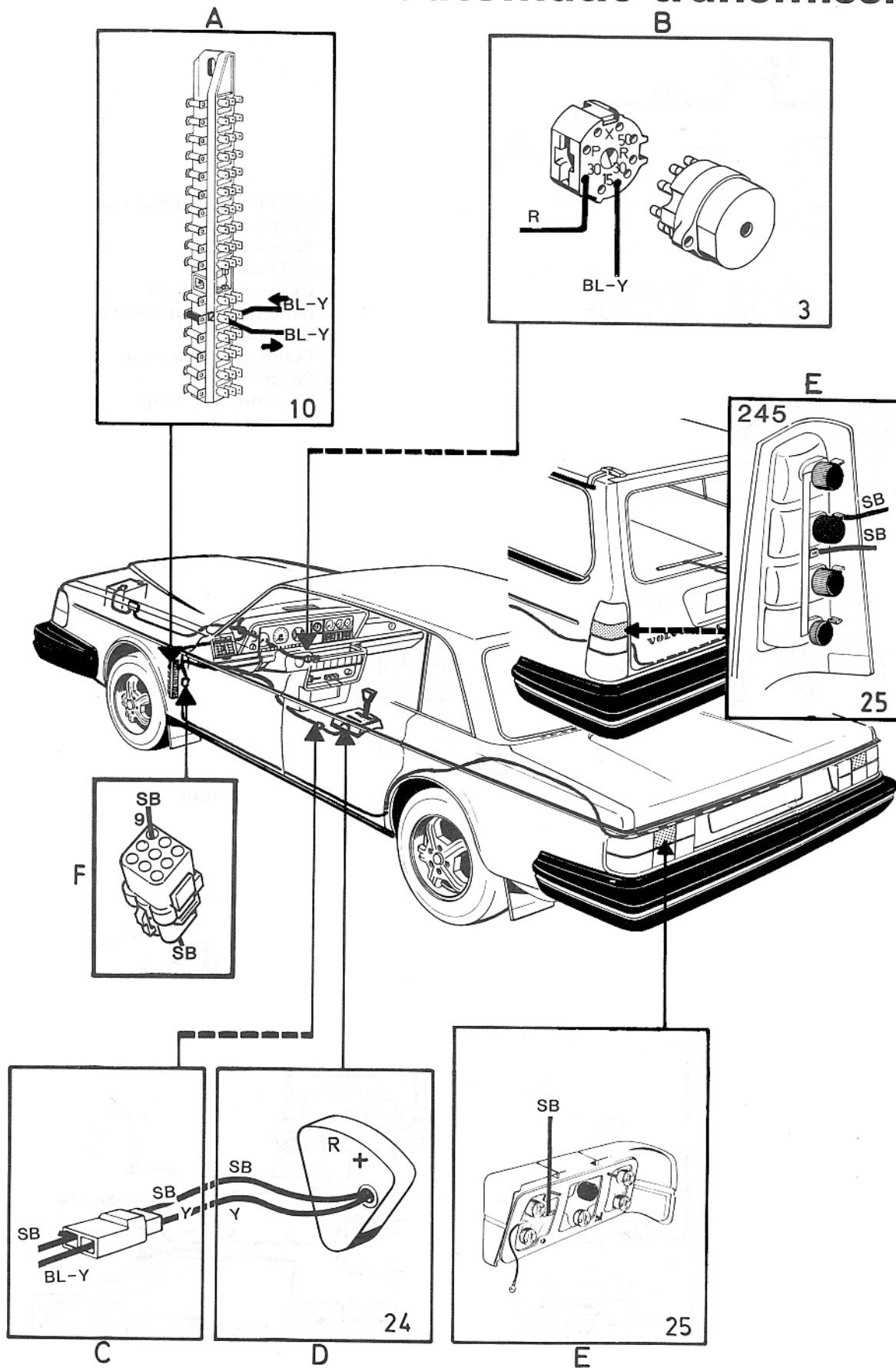
- A Fusebox
- B Ignition switch
- C Connector
- D Reversing (back-up) light switch
- E Reversing (back-up) light
- F Connector

Fuse No. 12
Window winders

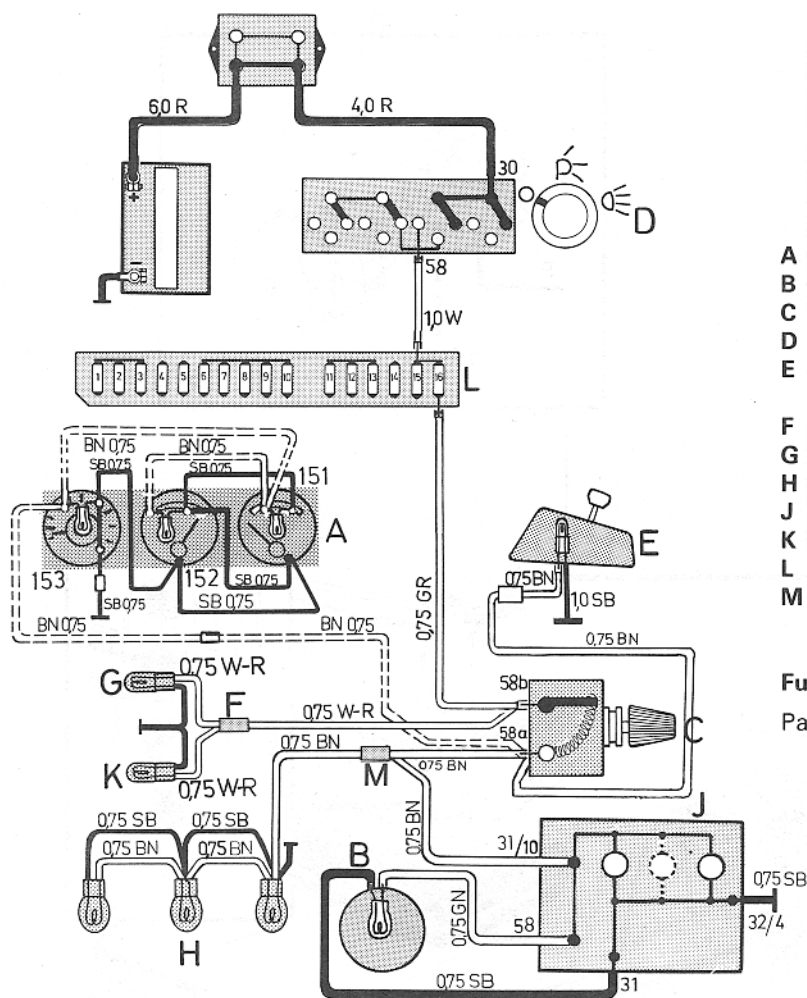
Gear selector in position 'R', ignition ON



Reversing (back-up) lights, automatic transmission



Lighting instruments, and controls



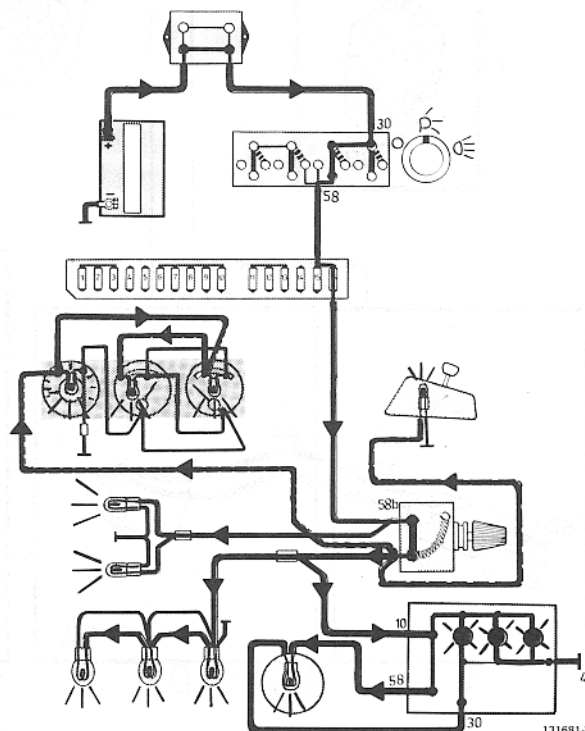
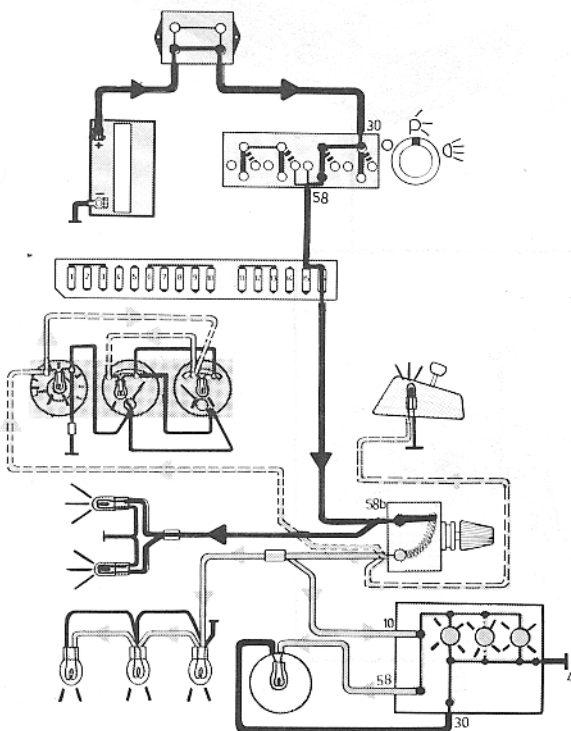
- A Lighting, aux. instruments
- B Quartz clock
- C Rheostat
- D Light switch
- E Gear position light (automatic transmission)
- F Connector
- G Fasten seat belt light
- H Panel lighting
- J Instrument lighting
- K Ashtray lighting
- L Fusebox
- M Connector

Fuse No. 16

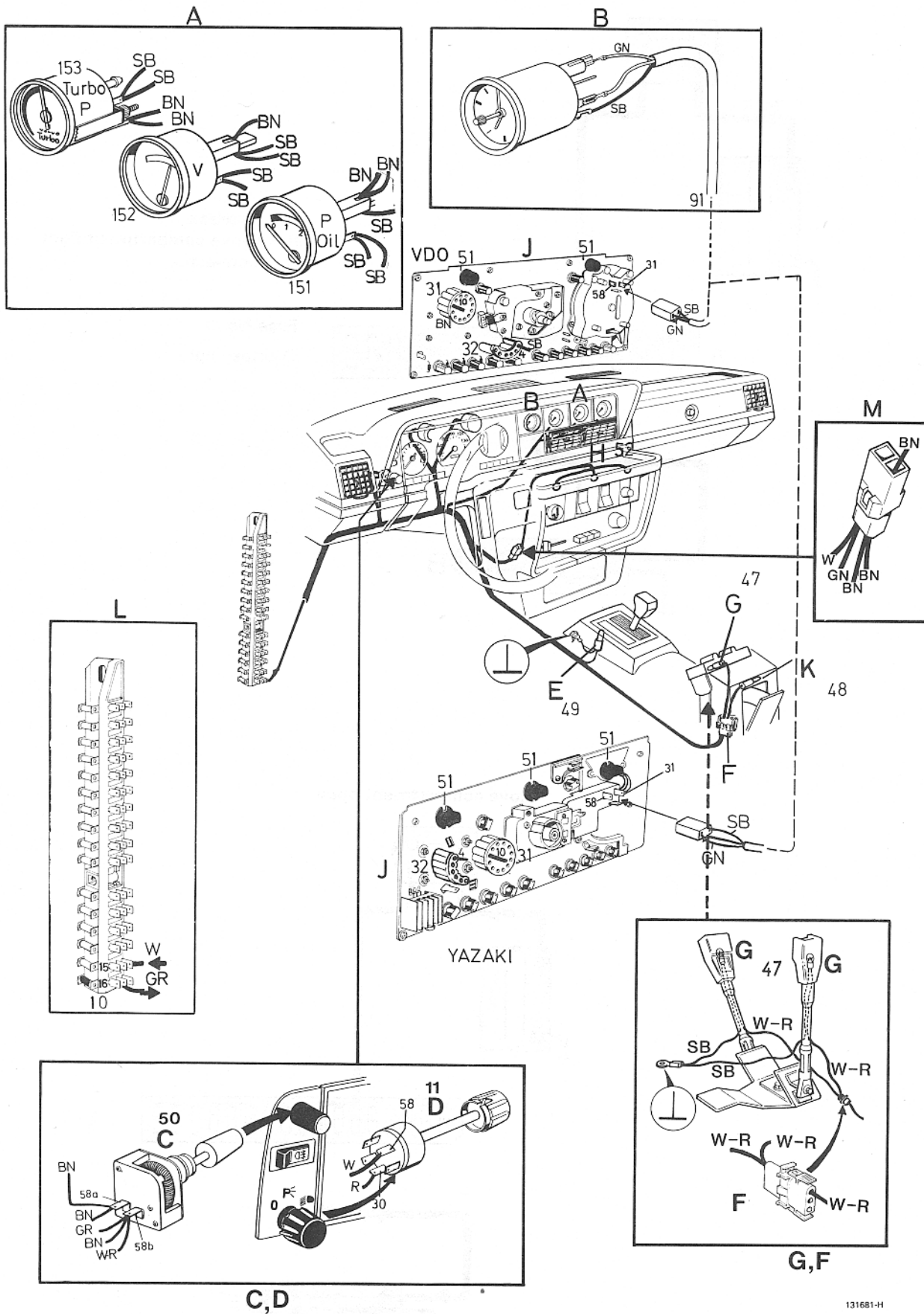
Parking and tail light, right

Light switch ON, dim instrument lighting

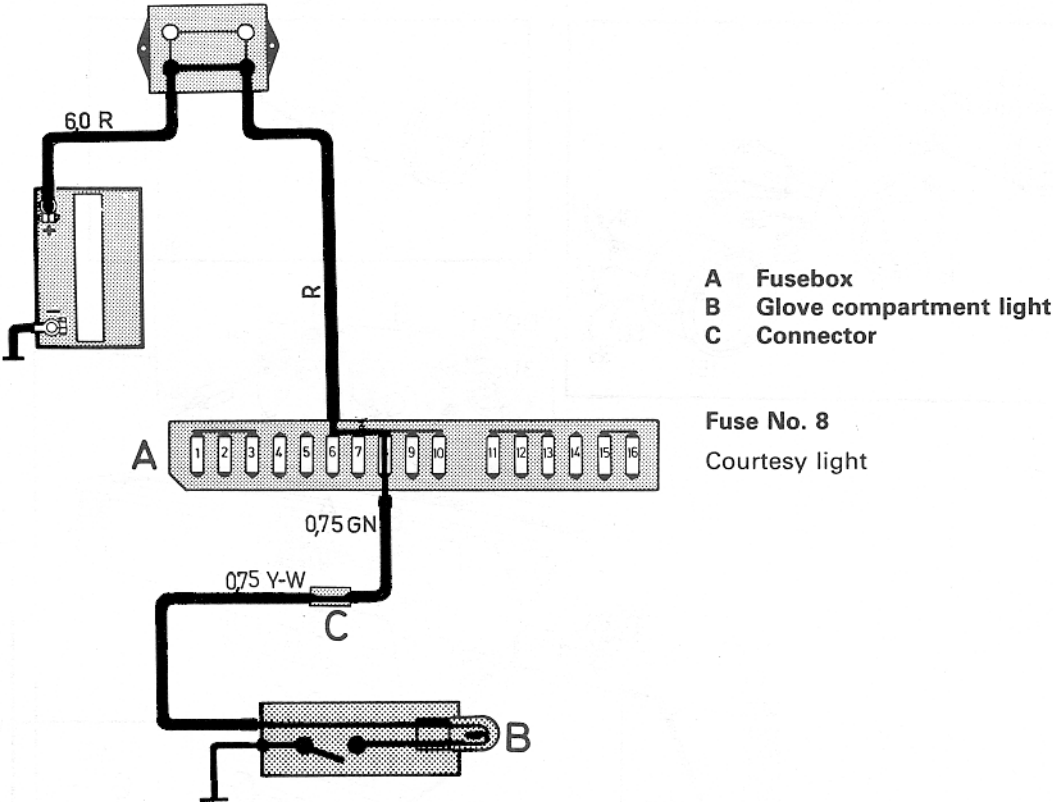
Light switch ON, bright instrument lighting



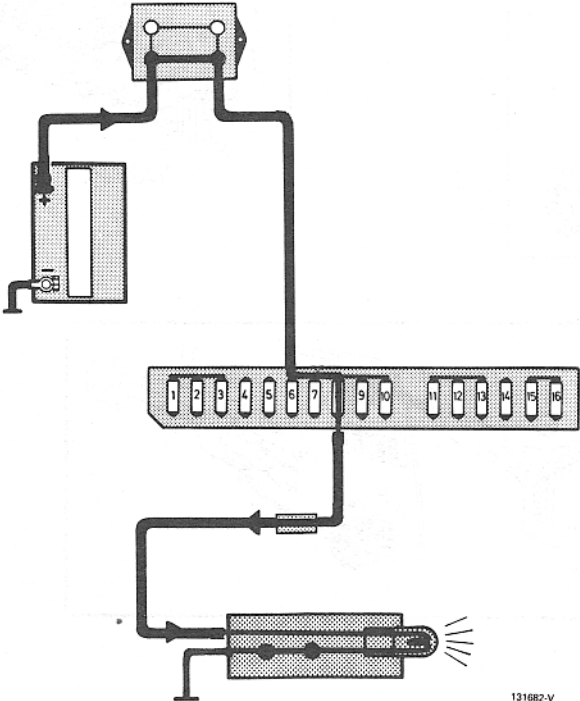
Lighting, instruments and controls



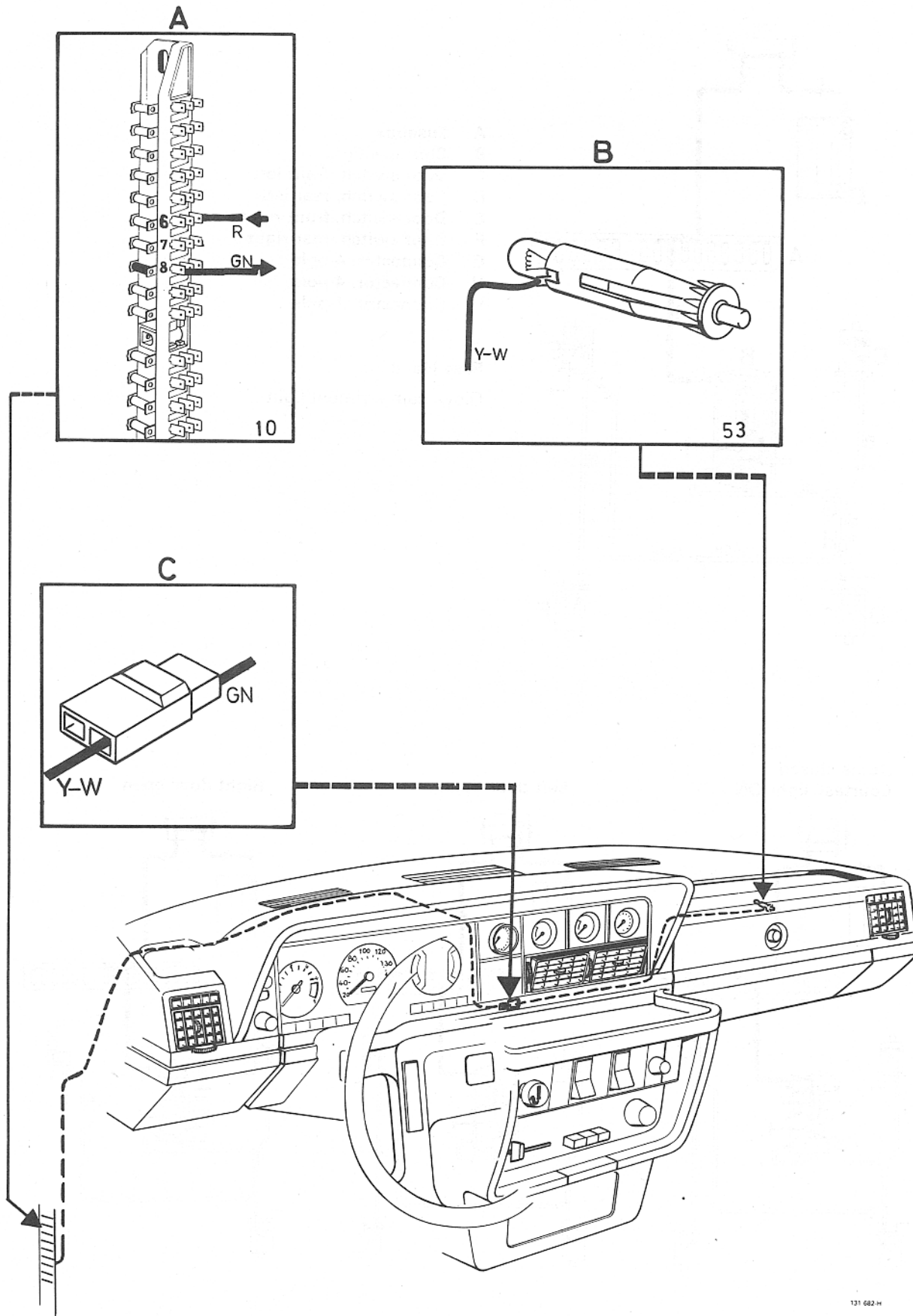
Glove compartment light



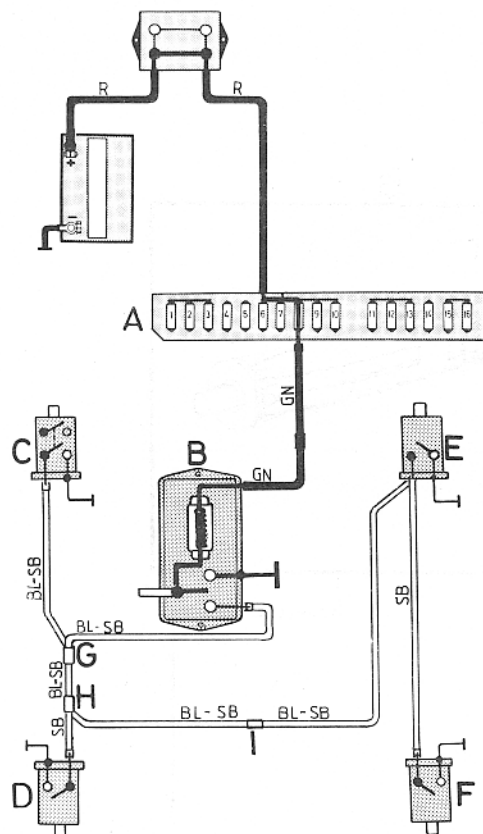
Glove compartment open



Glove compartment light



Courtesy light

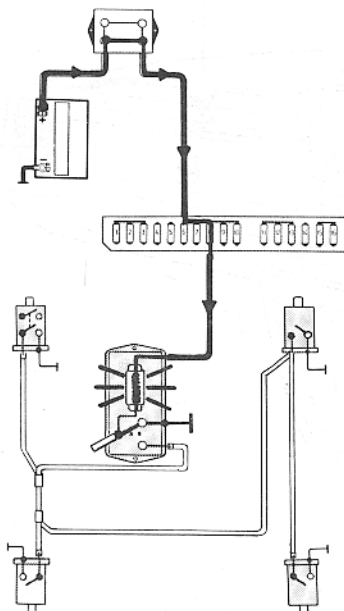


- A Fusebox
- B Courtesy light
- C Door switch, front left
- D Door switch, rear left
- E Door switch, front right
- F Door switch, rear right
- G Connector, 4-pole
- H Connector, 4-pole
- I Connector, 1-pole

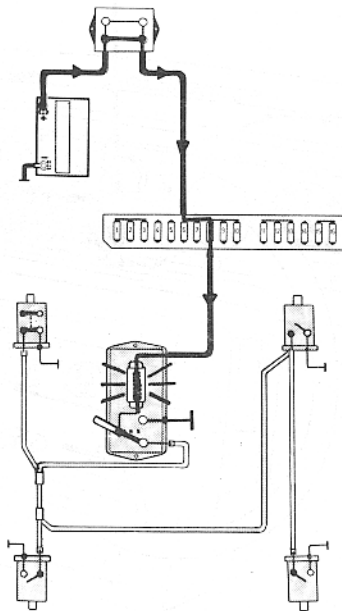
Fuse No. 8

Glove compartment light

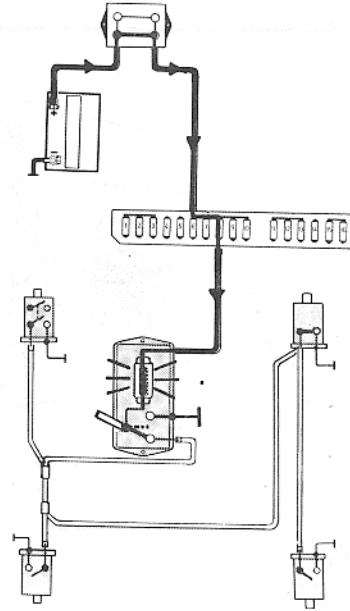
Doors closed
Courtesy light ON



Left door open

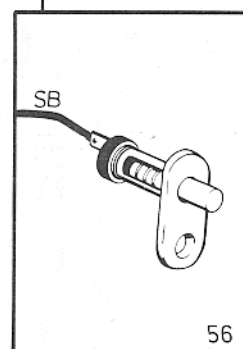
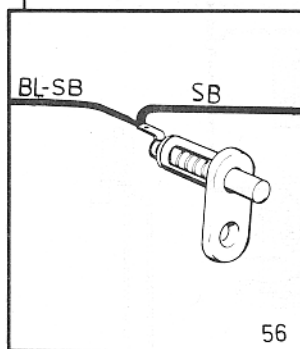
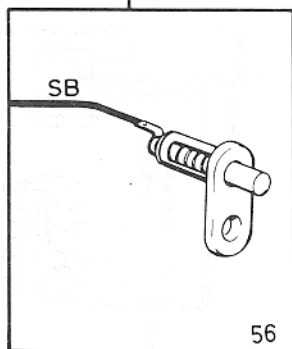
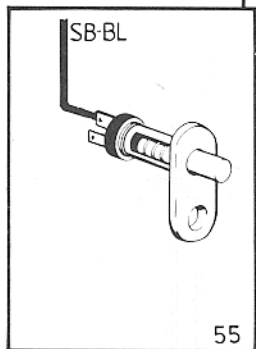
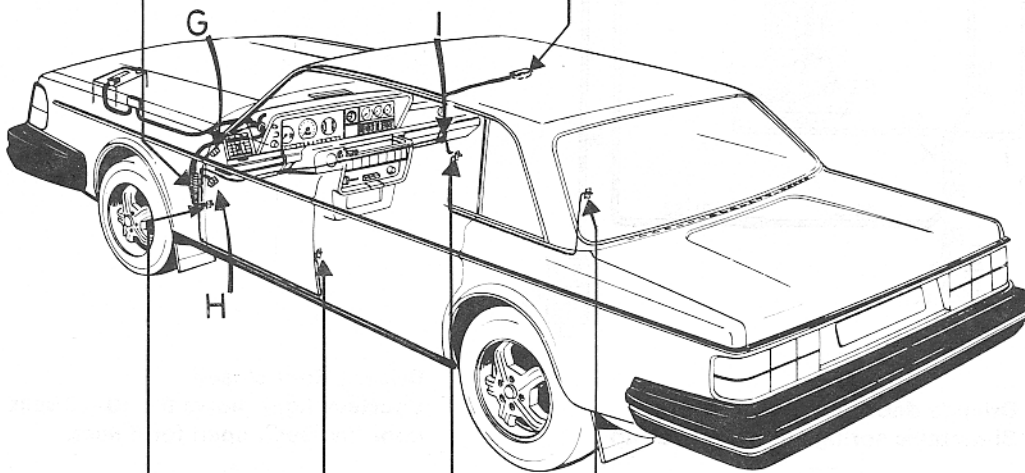
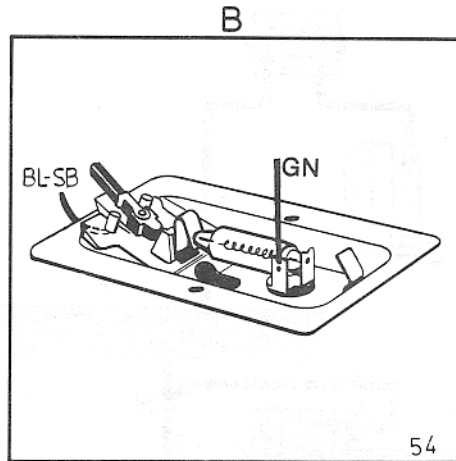
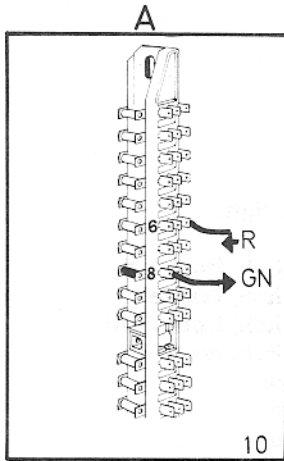


Right door open

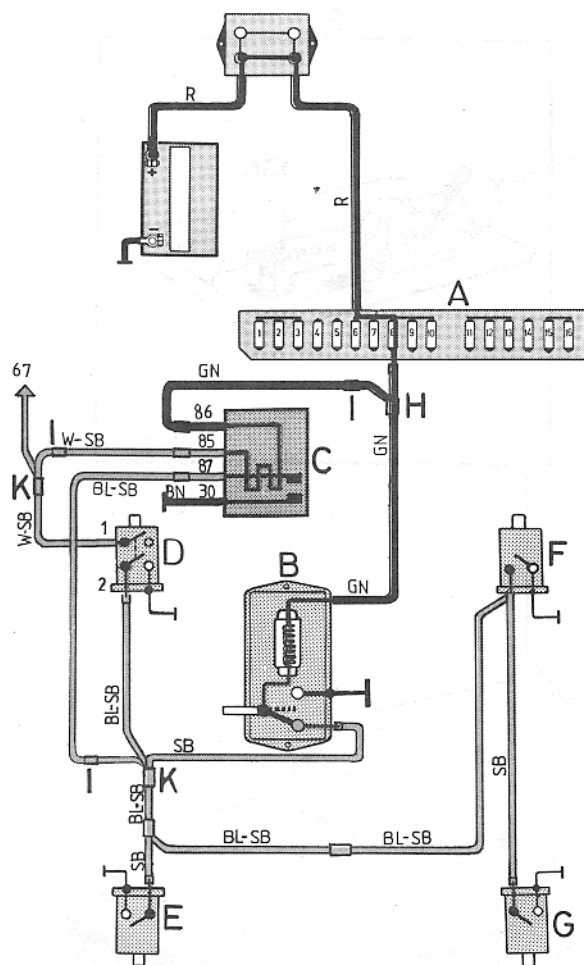


131663-V

Courtesy light



Delayed courtesy light

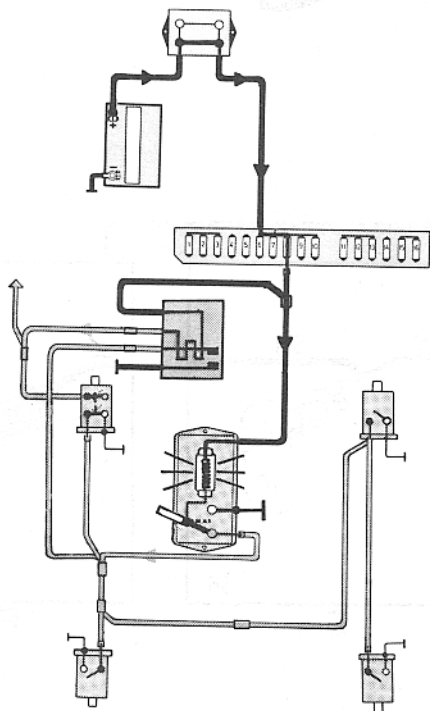


- A Fusebox
- B Courtesy light
- C Relay
- D Door switch, front left
- E Door switch, rear left
- F Door switch, front right
- G Door switch, rear right
- H Connector
- I Connector
- K Connector

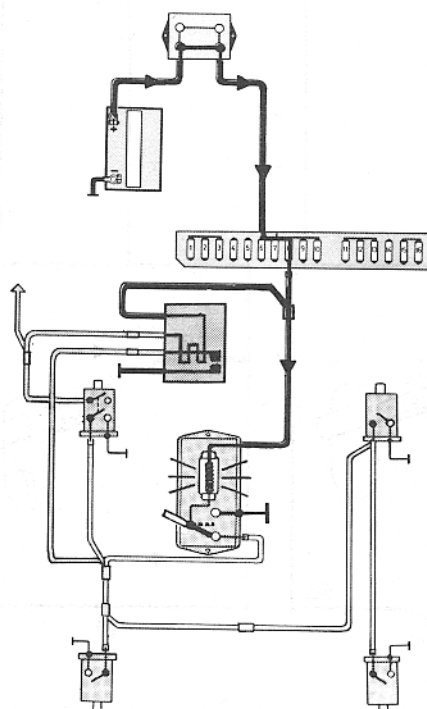
Fuse No. 8

Glove compartment light

Driver's door open
Bi-metallic springs start to heat up

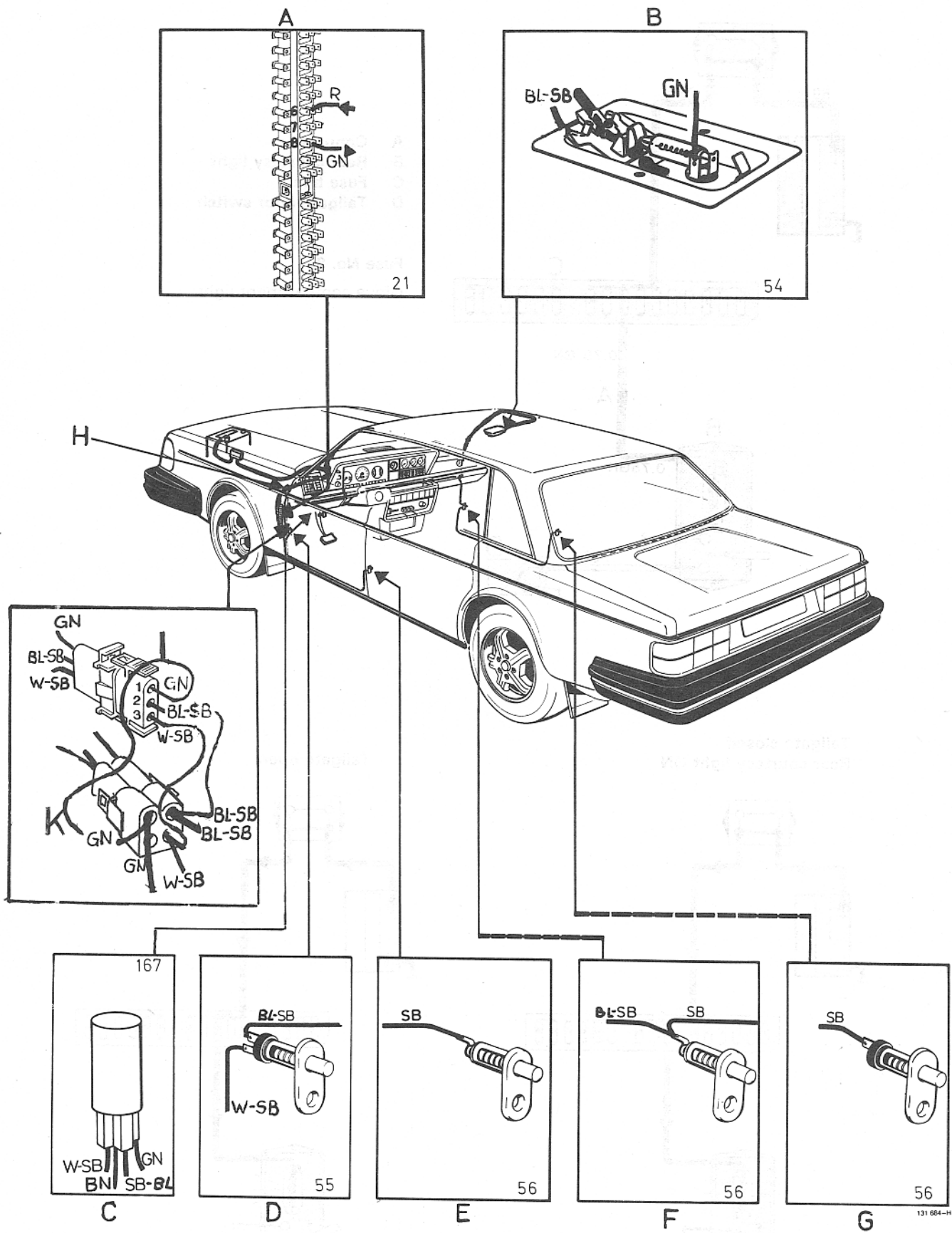


Driver's door closed
Courtesy light glows for 10-17 secs if
door has been open for 6 secs.

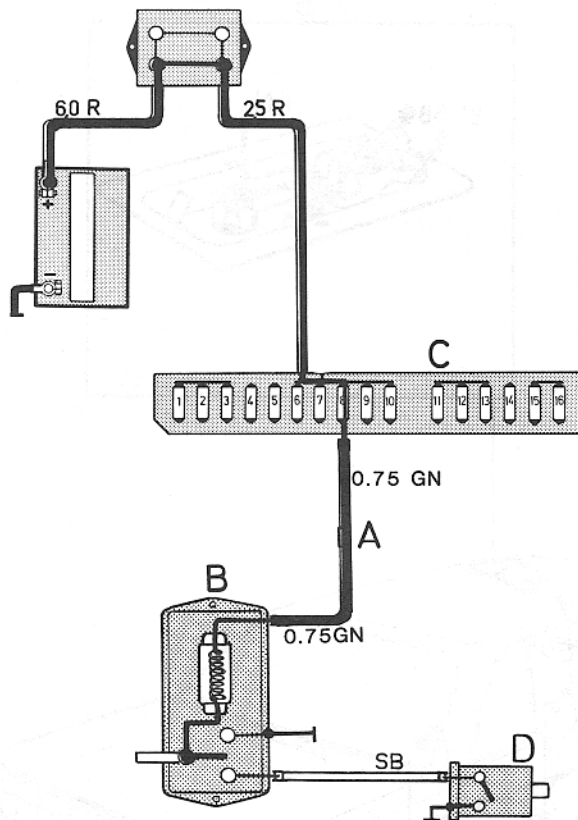


131684-V

Delayed courtesy light



Rear courtesy light, 245

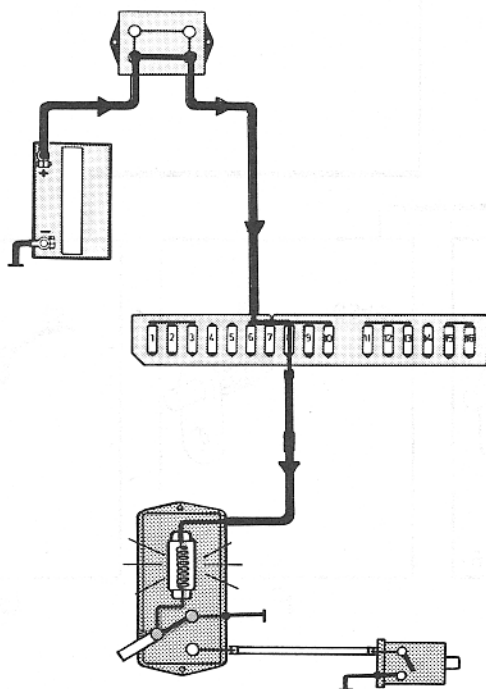


- A Connector
- B Rear courtesy light
- C Fuse box
- D Tailgate door switch

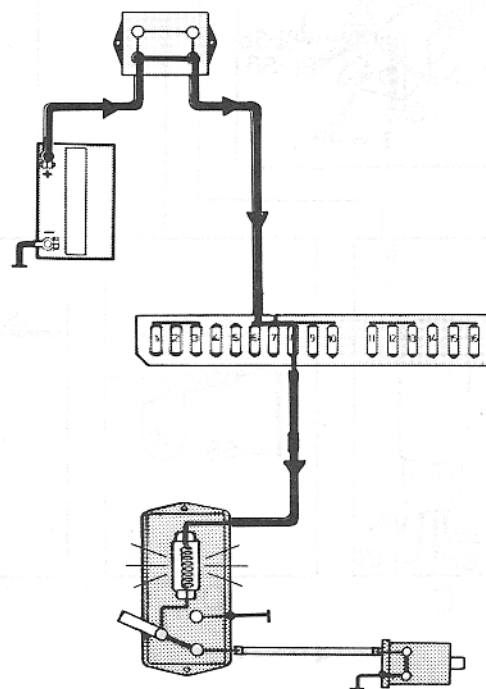
Fuse No. 8

Glove compartment light

Tailgate closed
Rear courtesy light ON

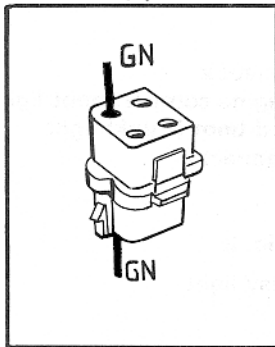


Tailgate open

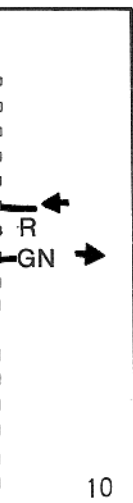
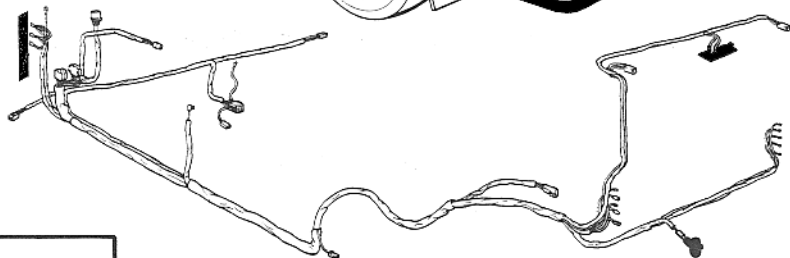
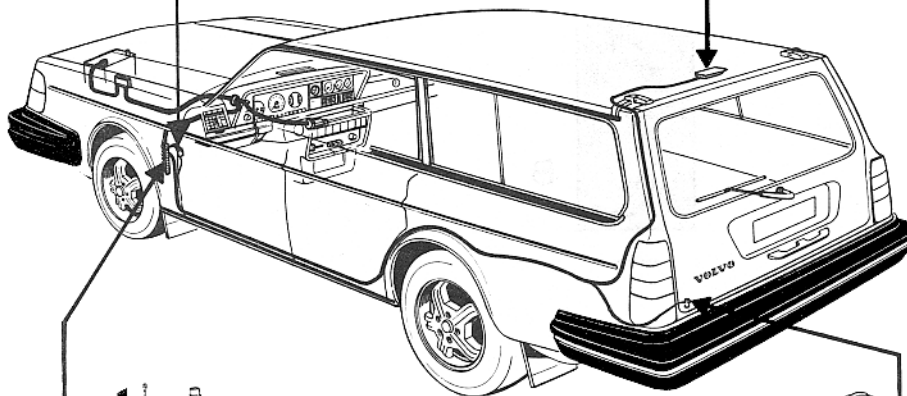
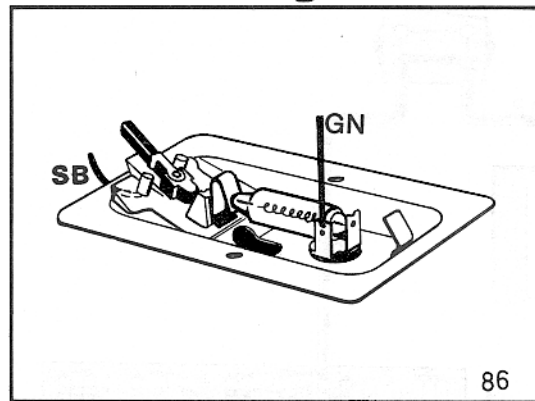


Rear courtesy light, 245

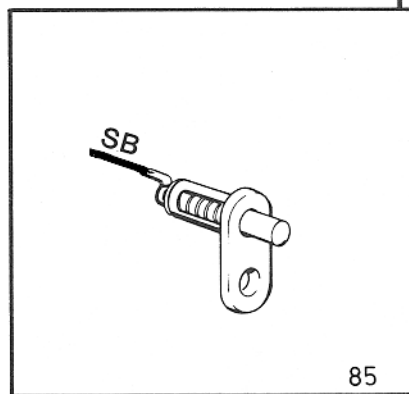
A



B

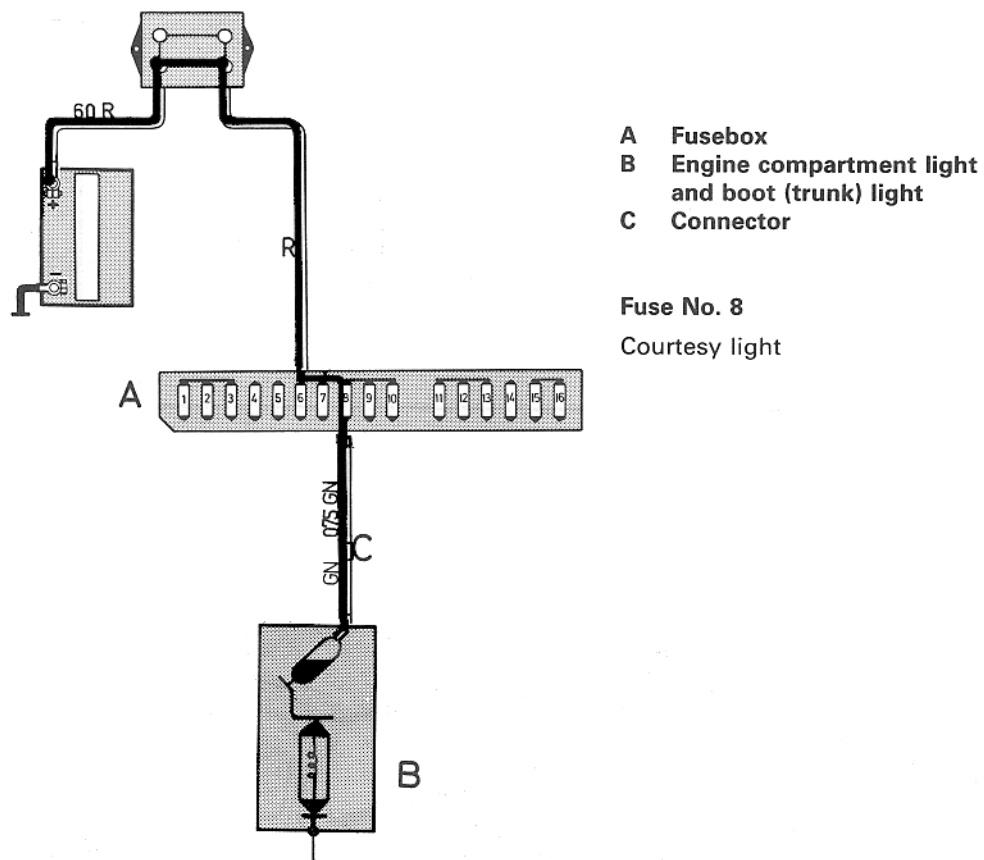


C

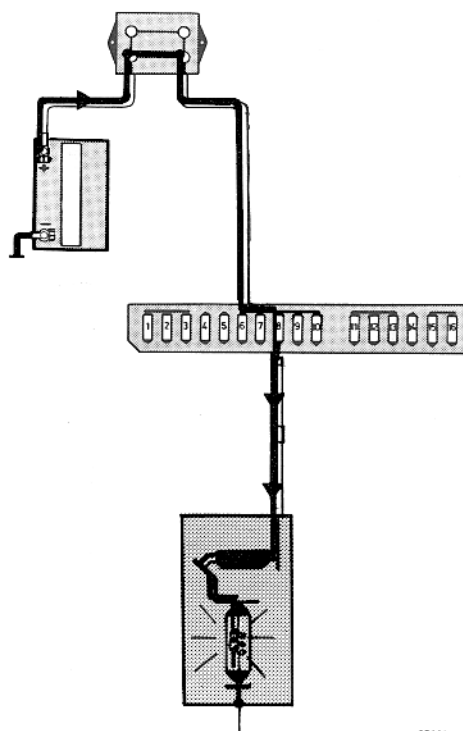


D

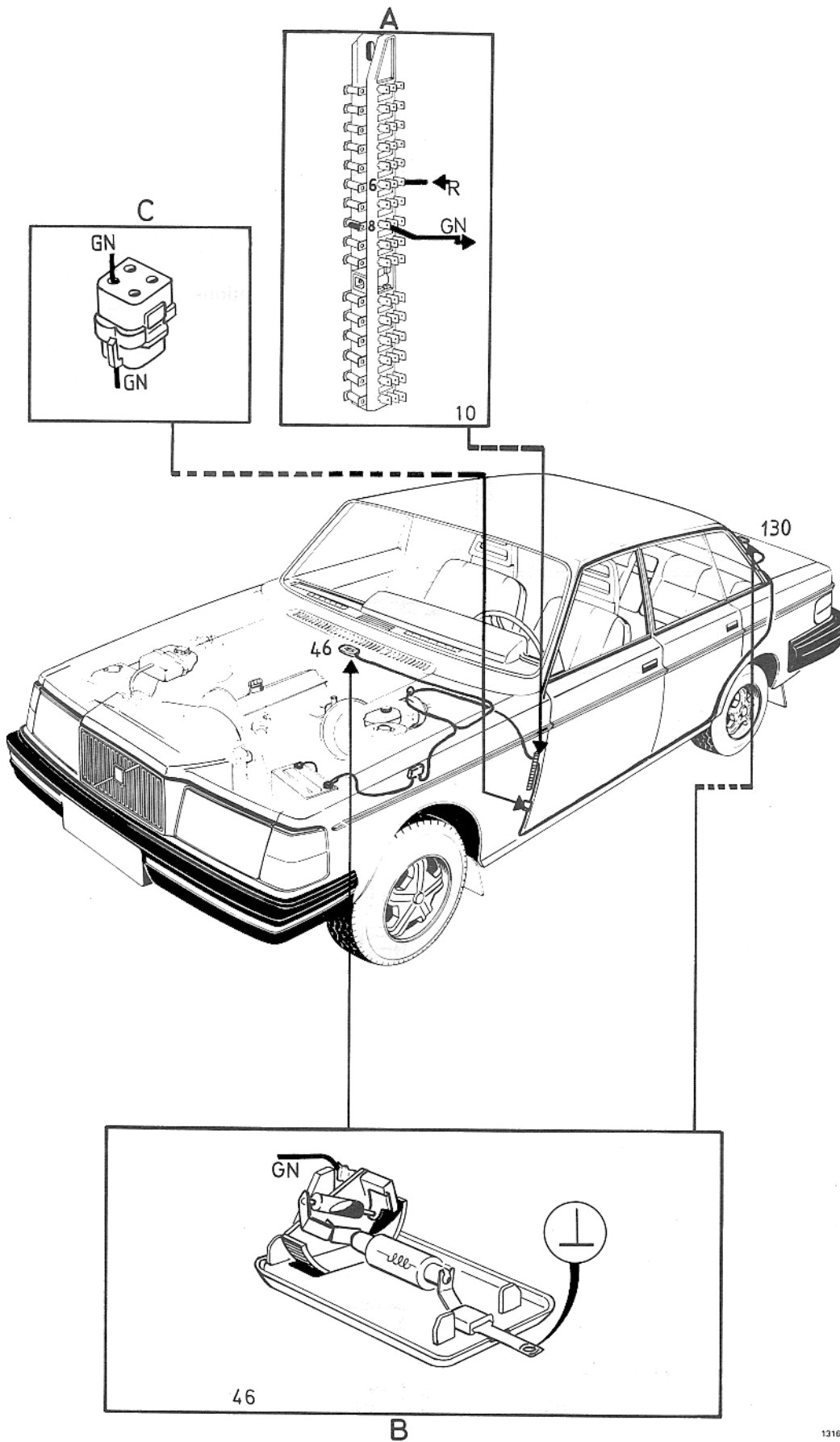
Engine compartment light and boot (trunk) light



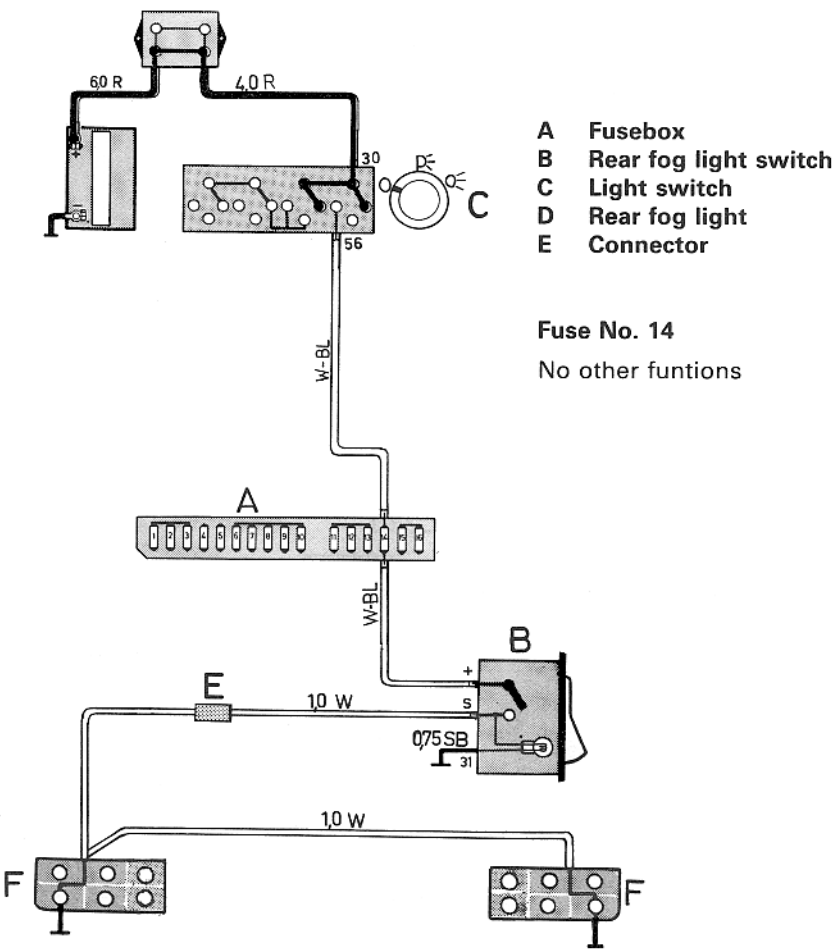
Bonnet or boot (trunk) lid open



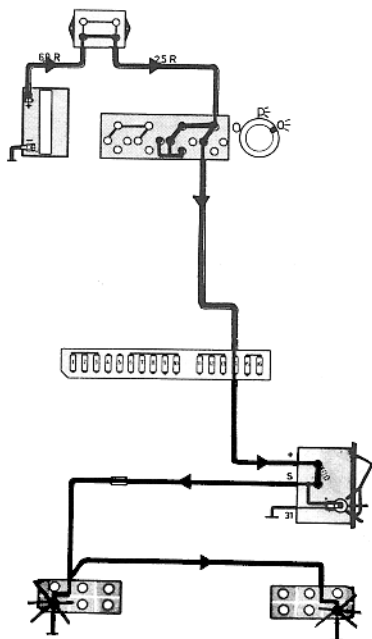
Engine compartment light and boot (trunk) light



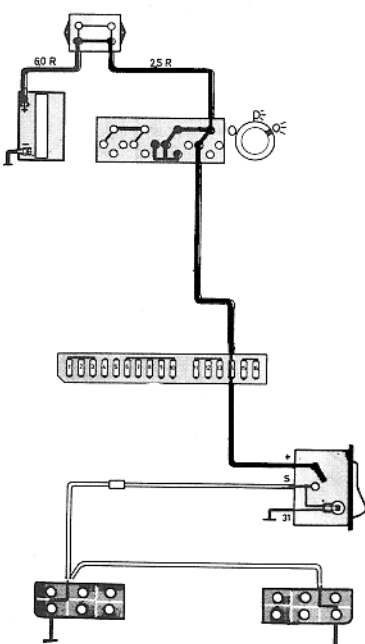
Rear fog lights



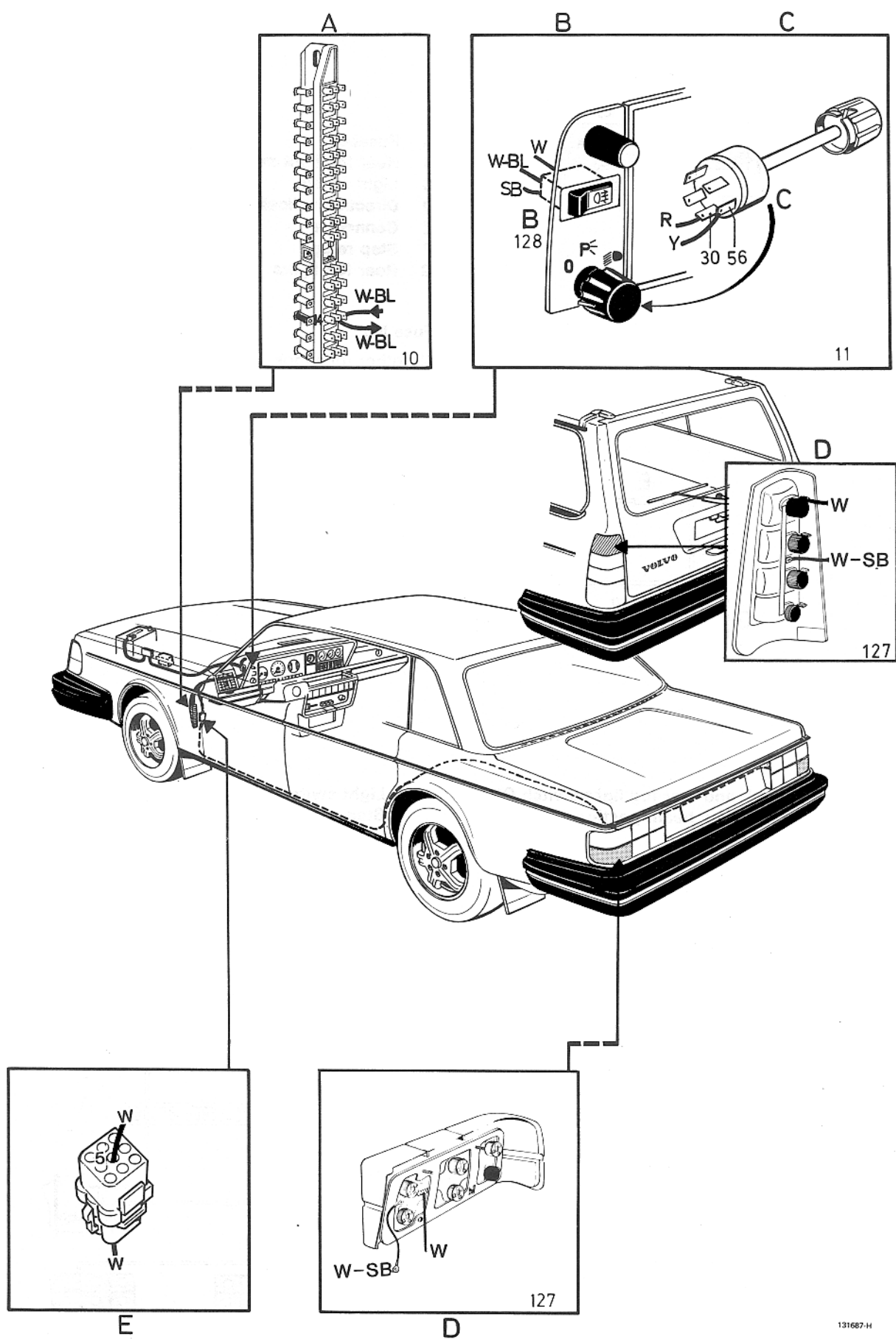
Light switch + rear fog light switch ON.
Step relay in dipped beam position



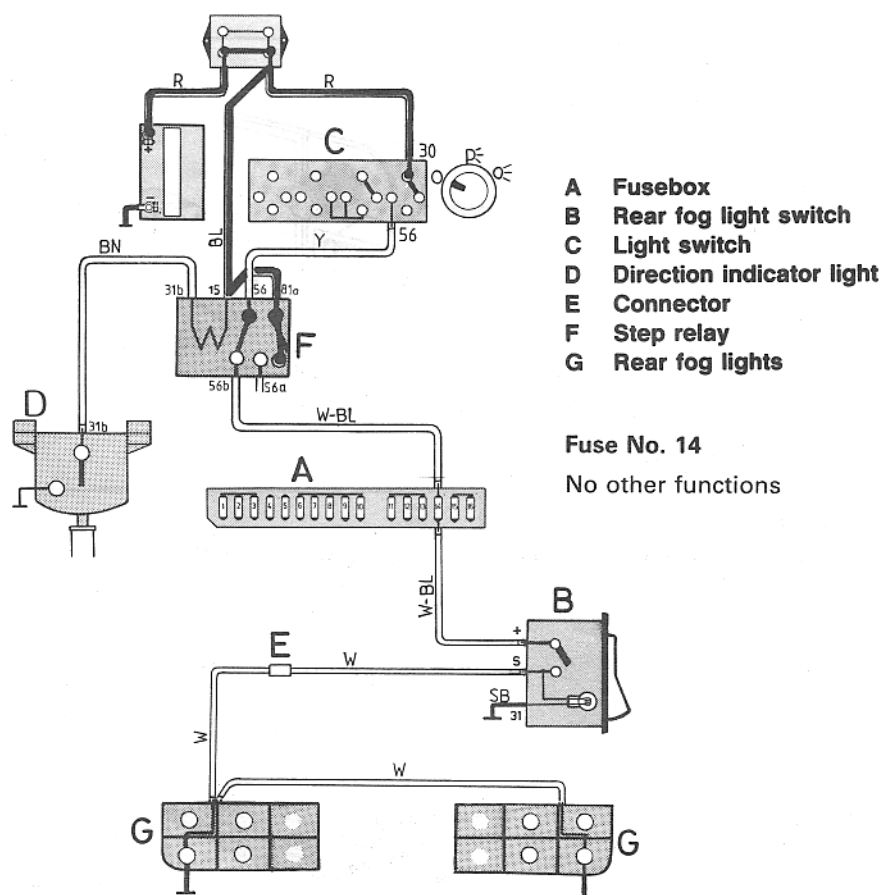
Rear fog light switch OFF



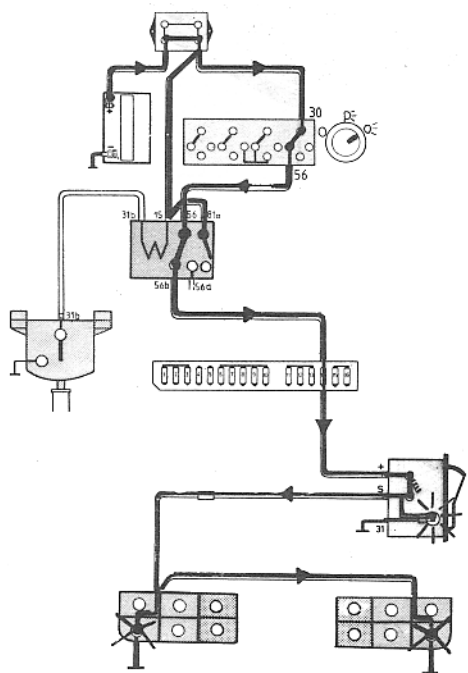
Rear fog lights



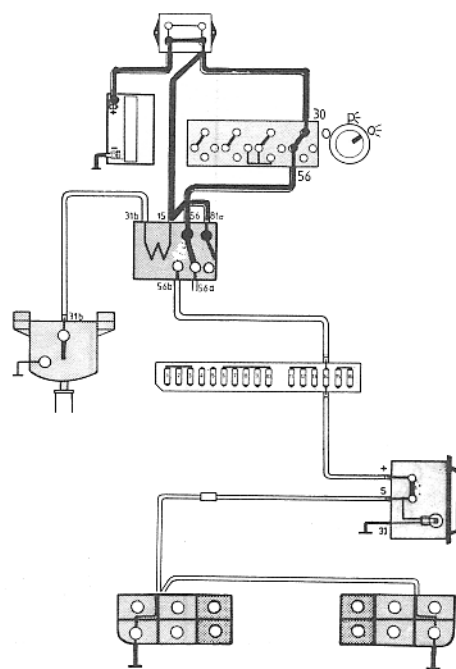
Rear fog lights, USA



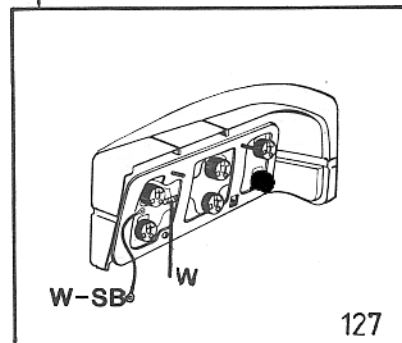
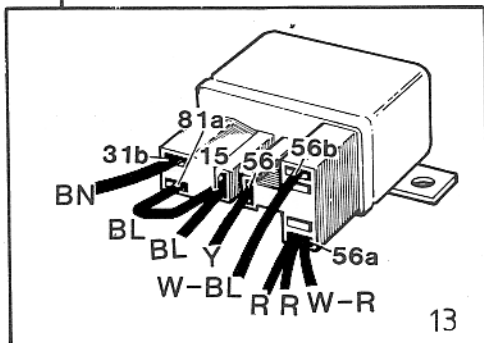
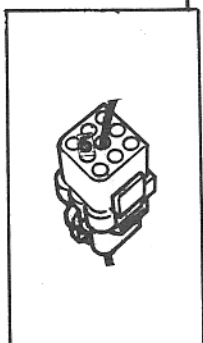
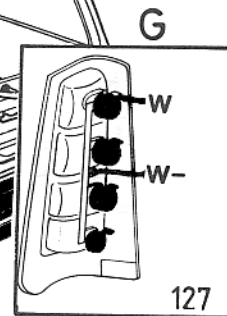
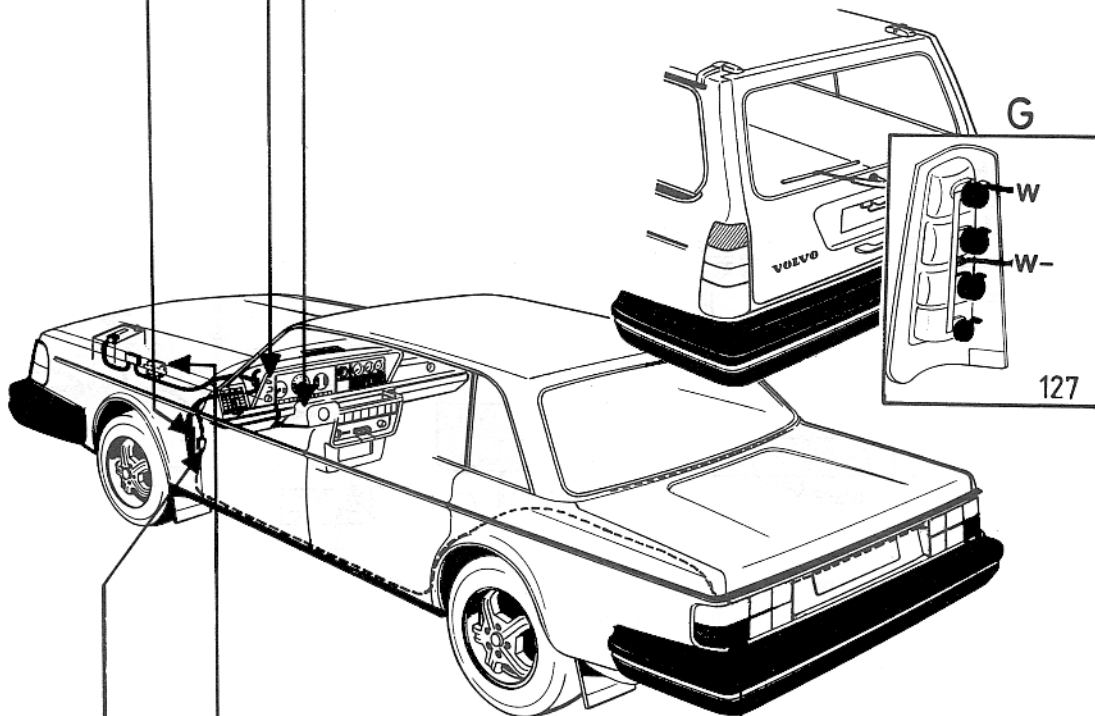
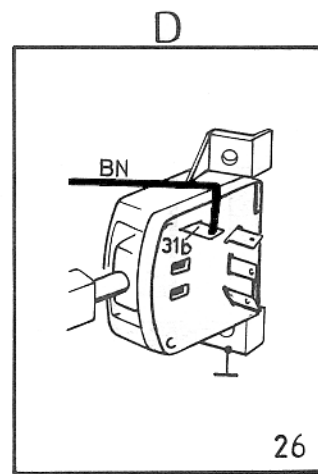
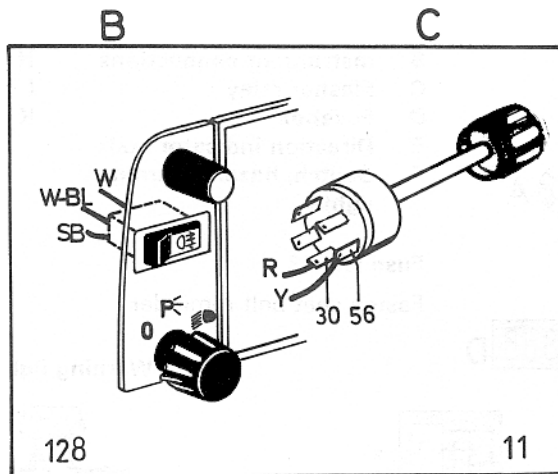
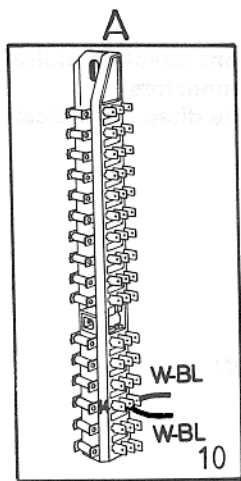
Light switch and rear fog light switch ON
Step relay in low beam position



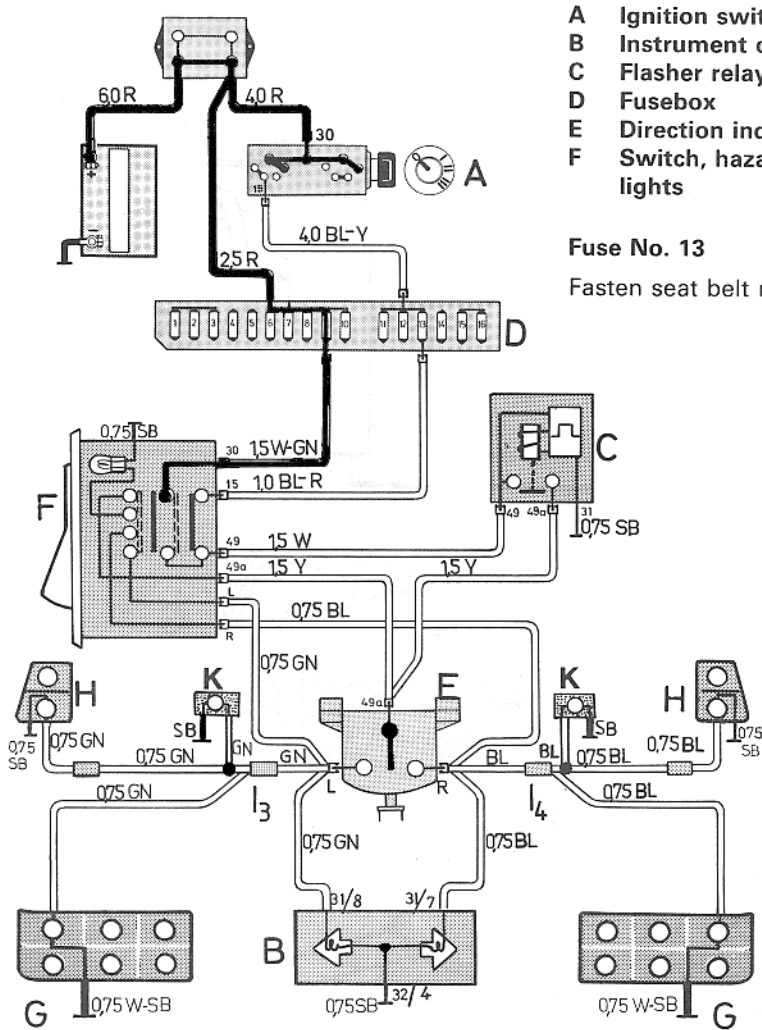
Light switch and rear fog light switch ON
Step relay in high beam position



Rear fog lights, USA



Direction indicators and hazard warning lights

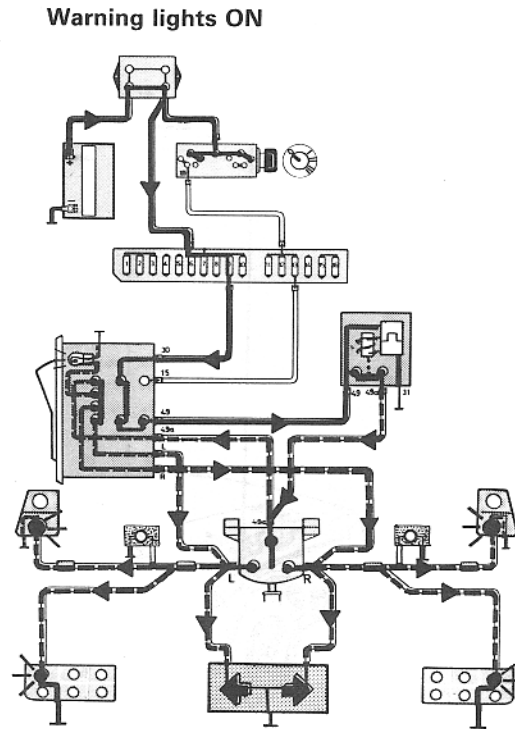


- A Ignition switch
- B Instrument connections
- C Flasher relay
- D Fusebox
- E Direction indicator stalk
- F Switch, hazard warning lights

- G Rear direction indicators
- H Front direction indicators
- I Connectors
- K Side direction indicators

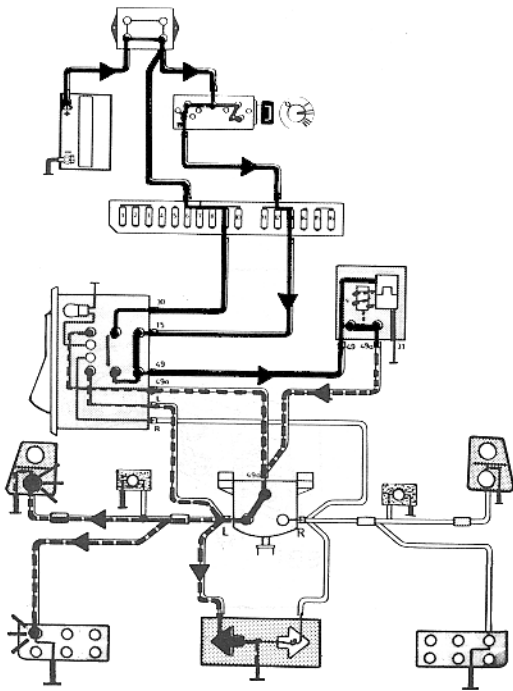
Fuse No. 13

Fasten seat belt reminder

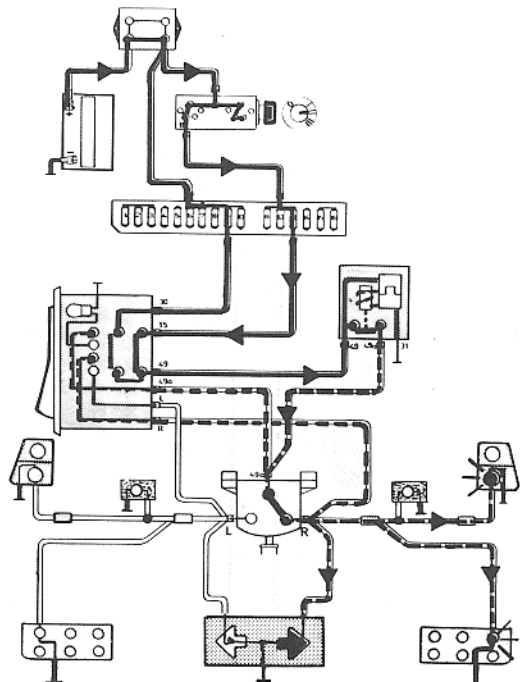


Warning lights ON

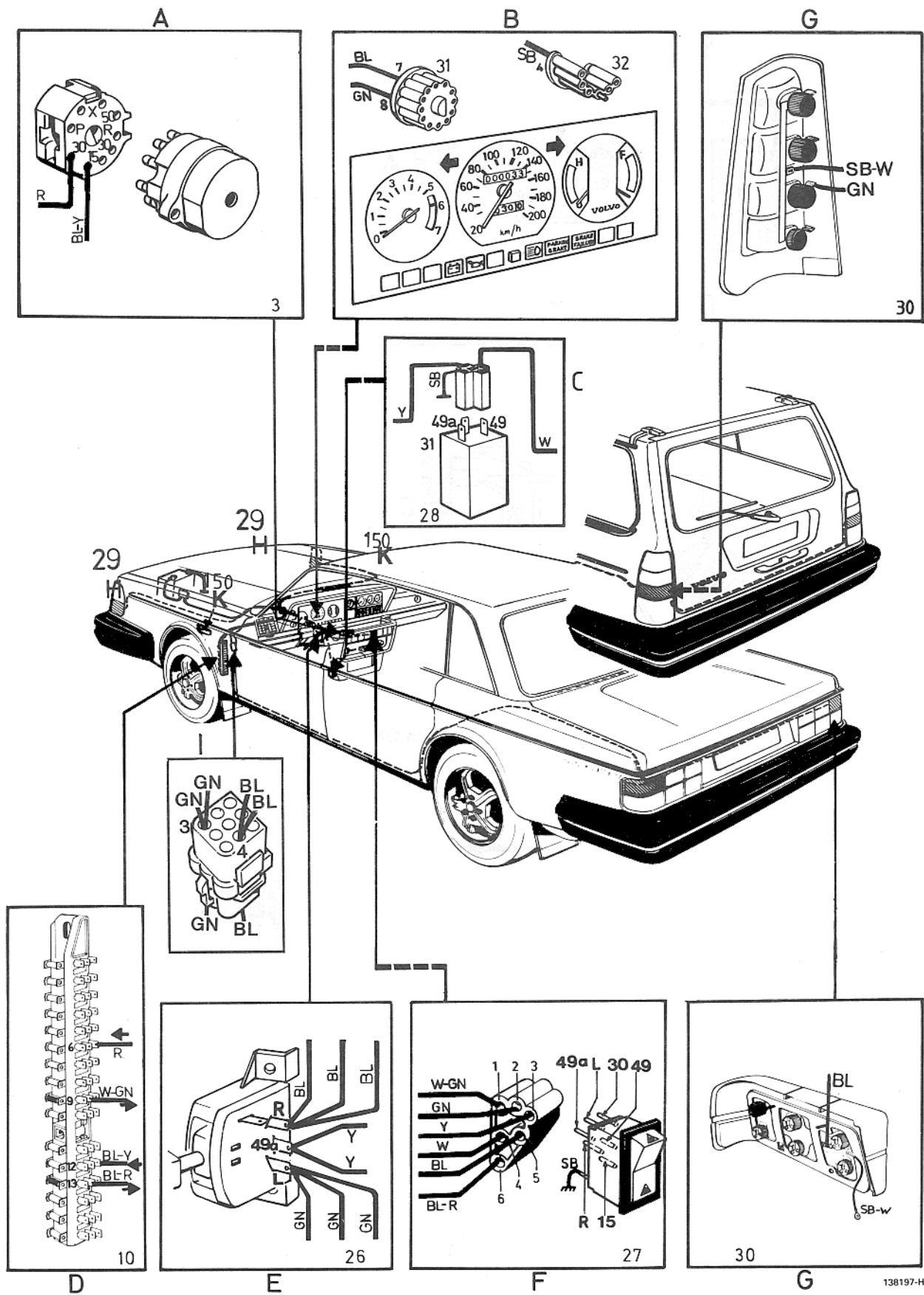
Left direction indicator ON



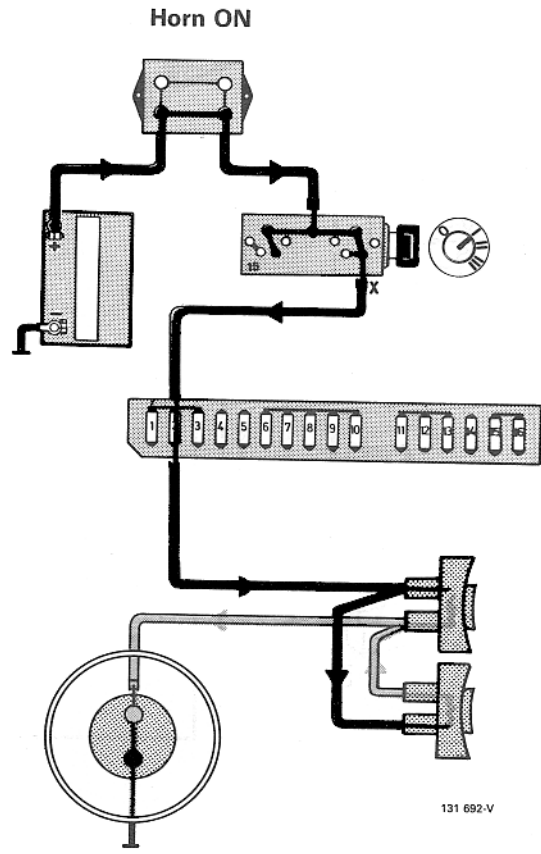
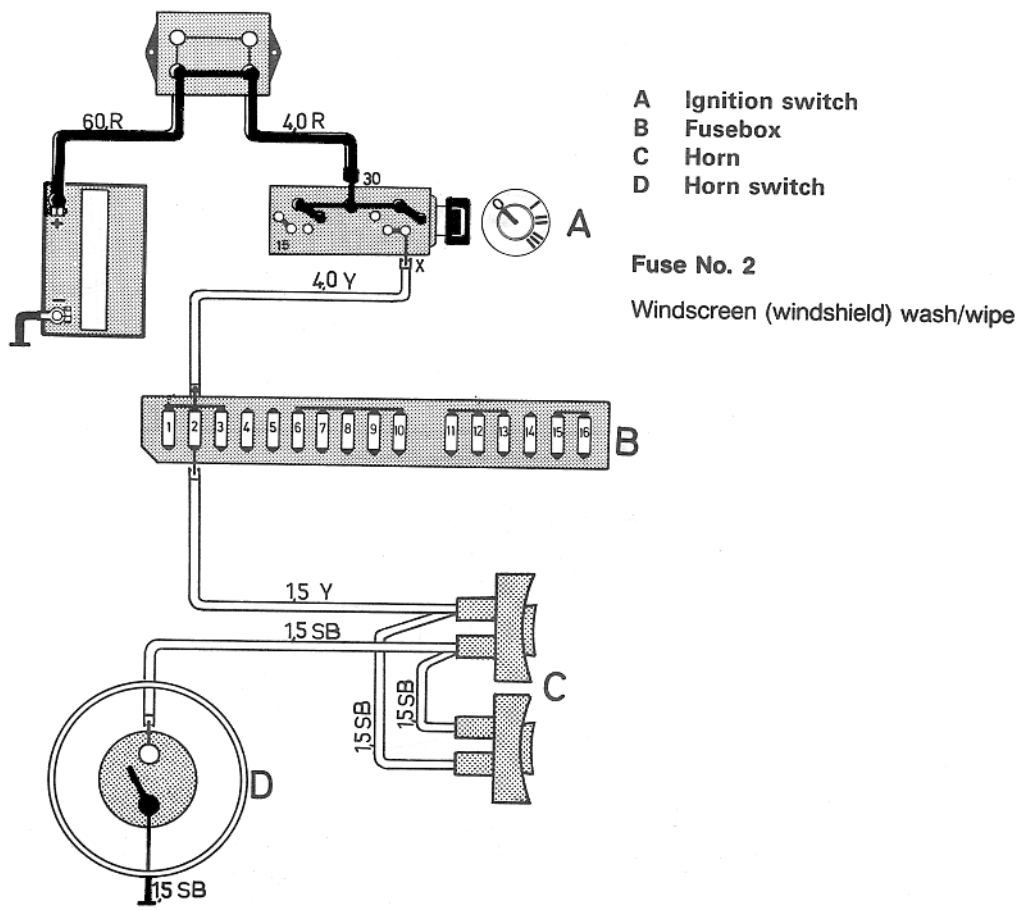
Right direction indicator ON



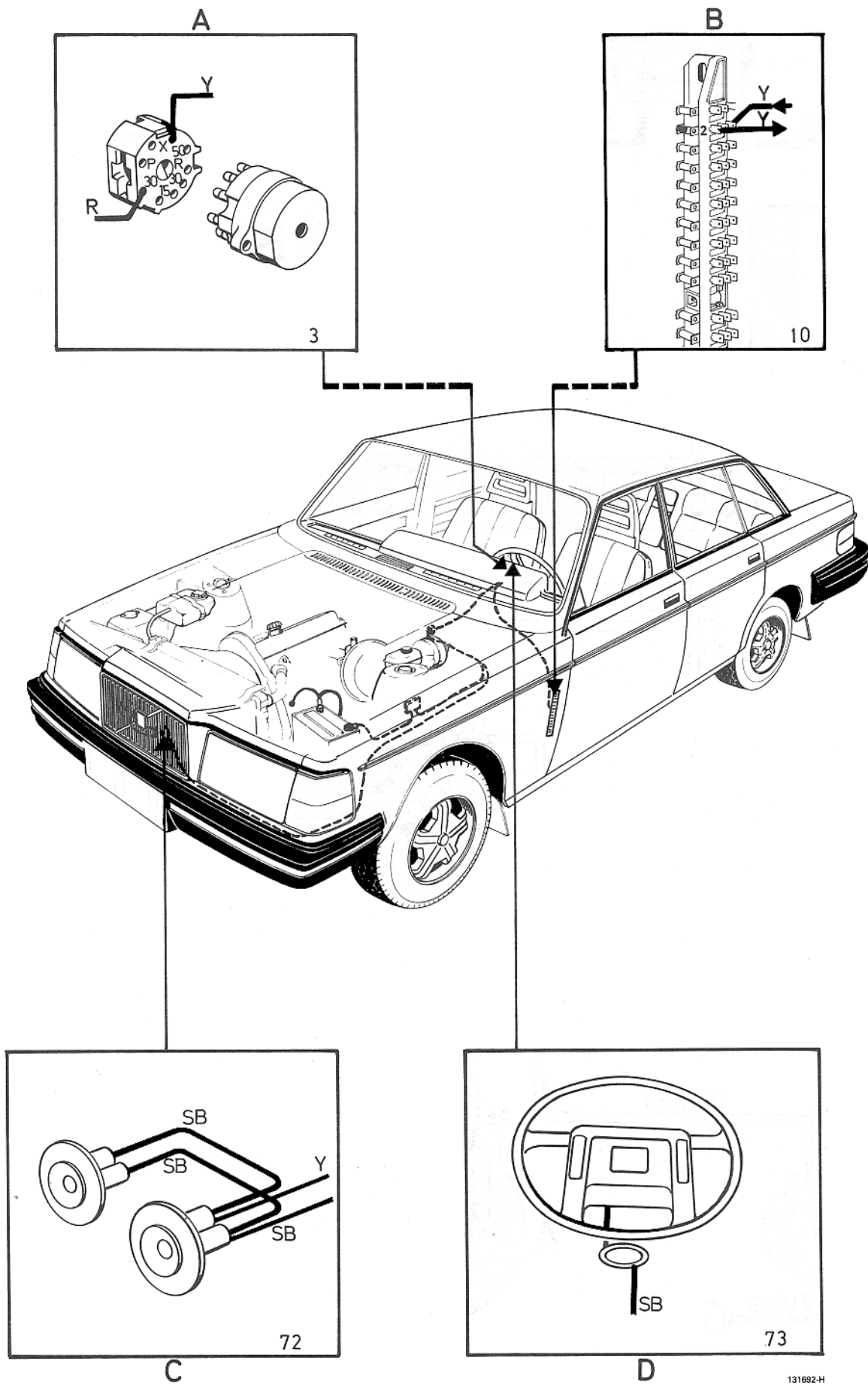
Direction indicators and hazard warning lights



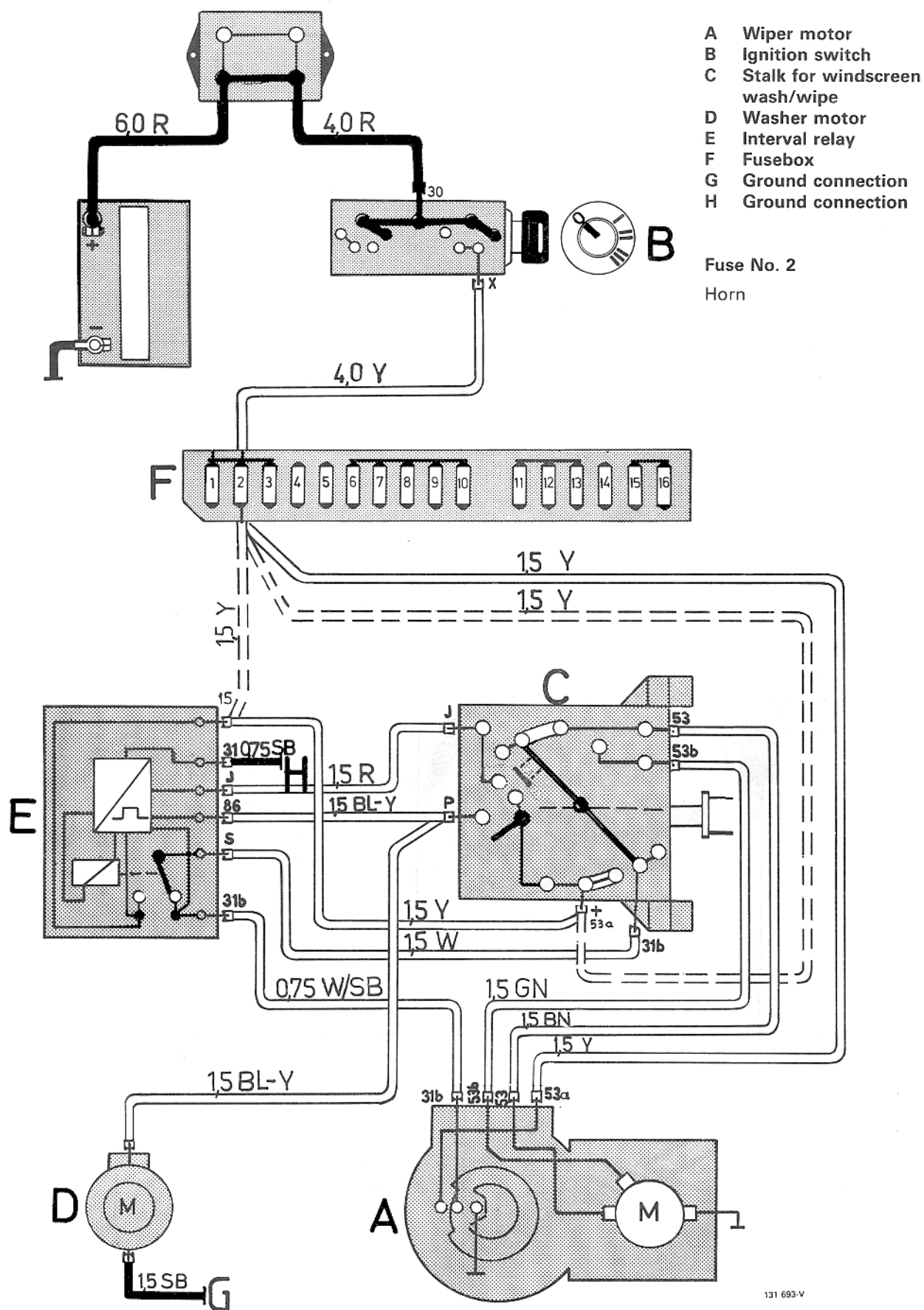
Horn



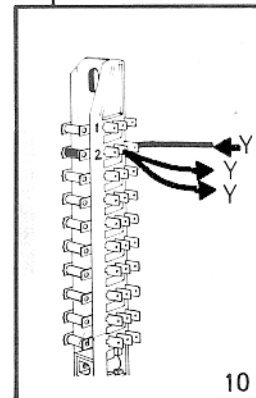
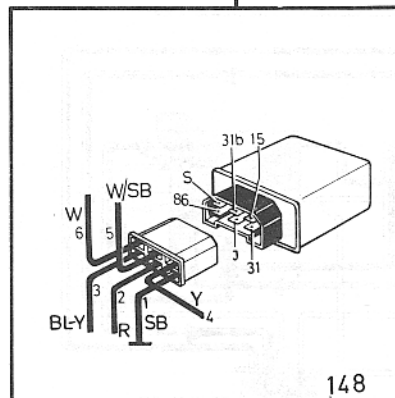
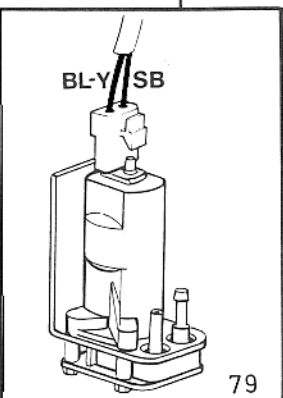
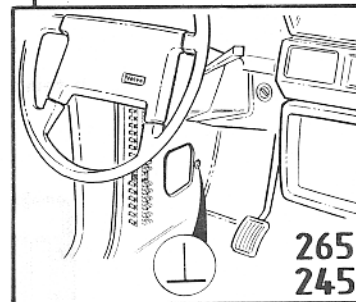
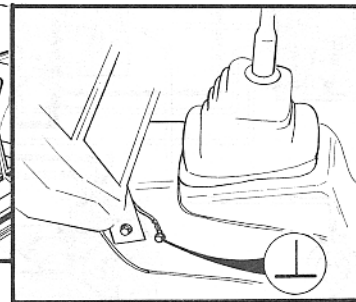
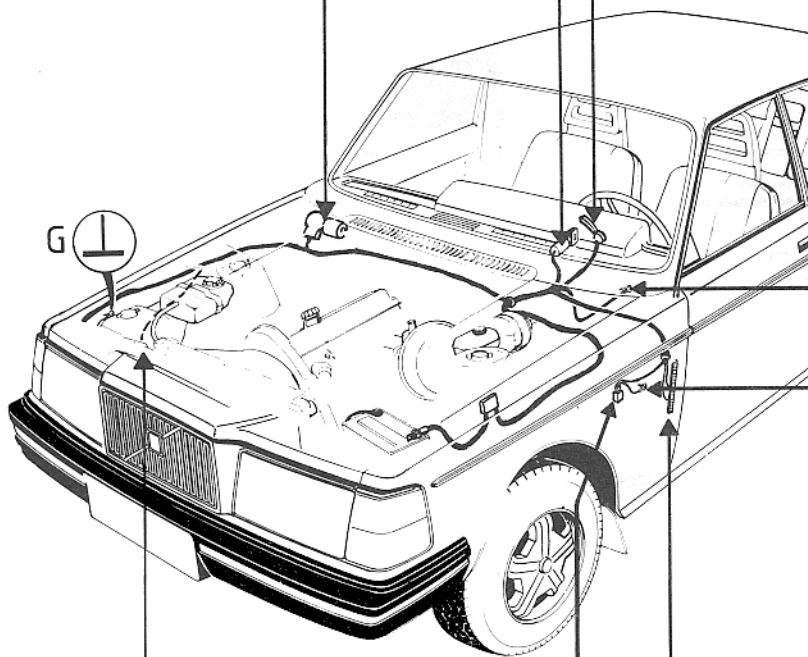
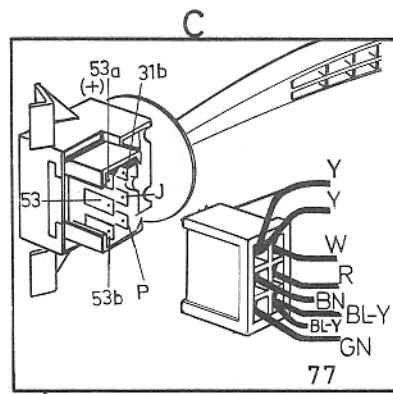
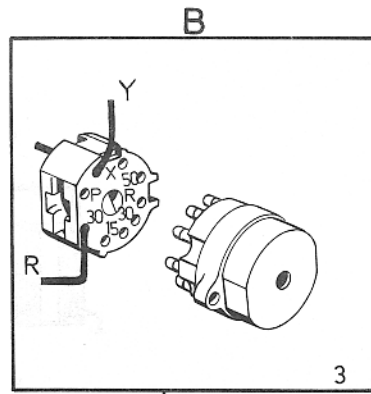
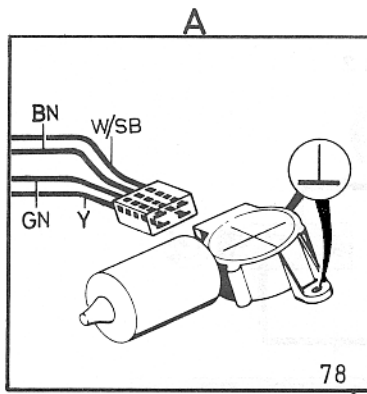
Horn



Windshield wash/wipe

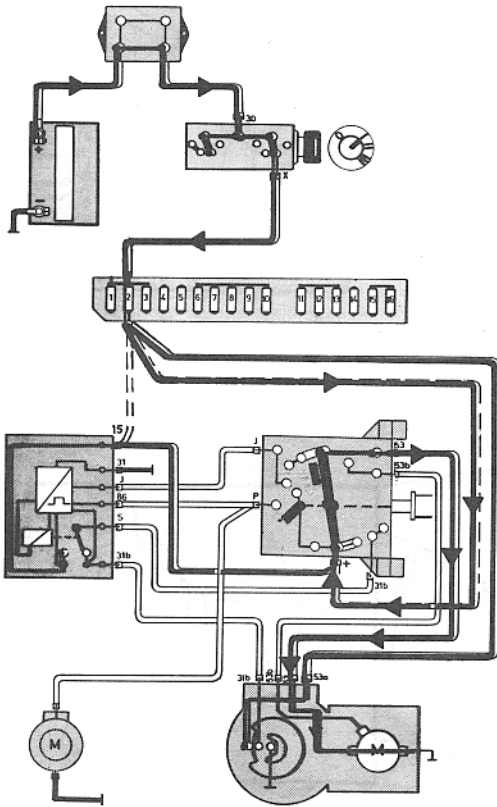


Windshield wash/wipe

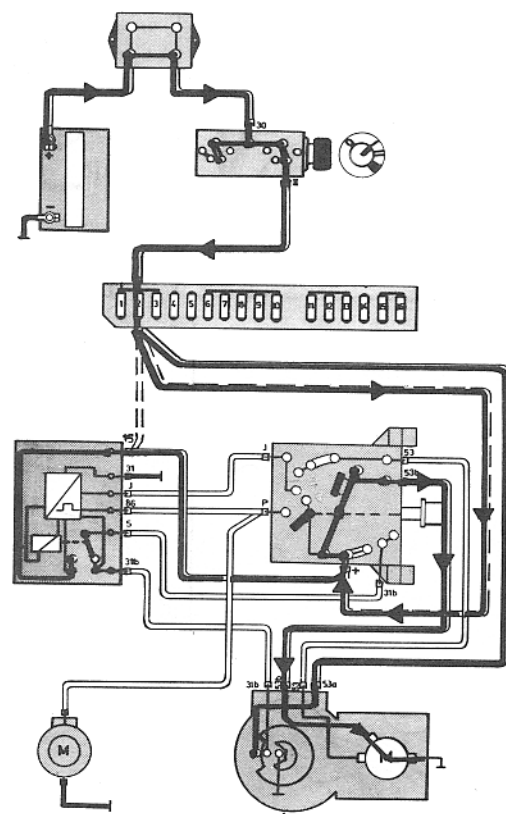


Windscreen wash/wipe

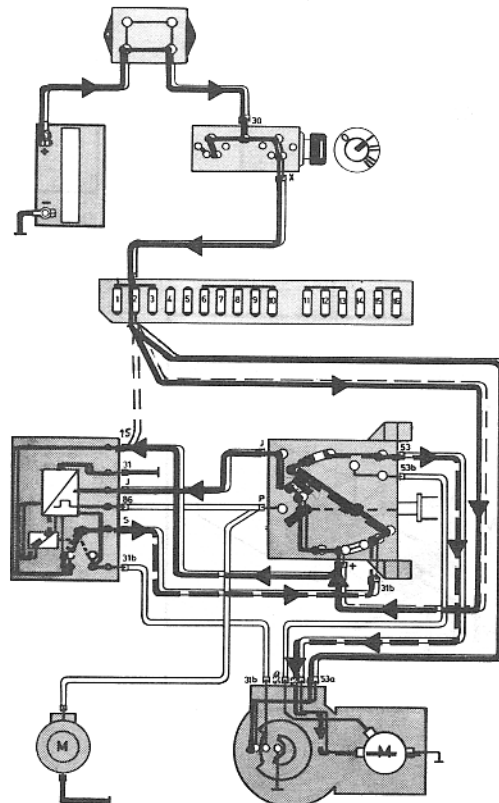
1
Speed 1



2
Speed 2

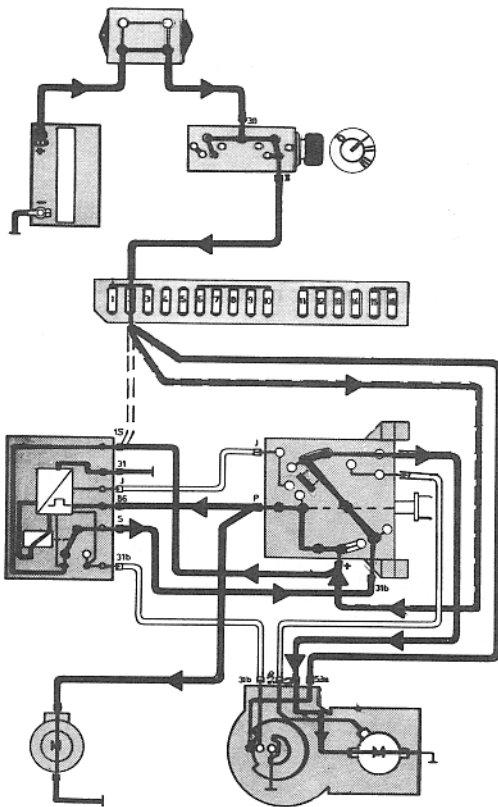


3
Interval relay connected

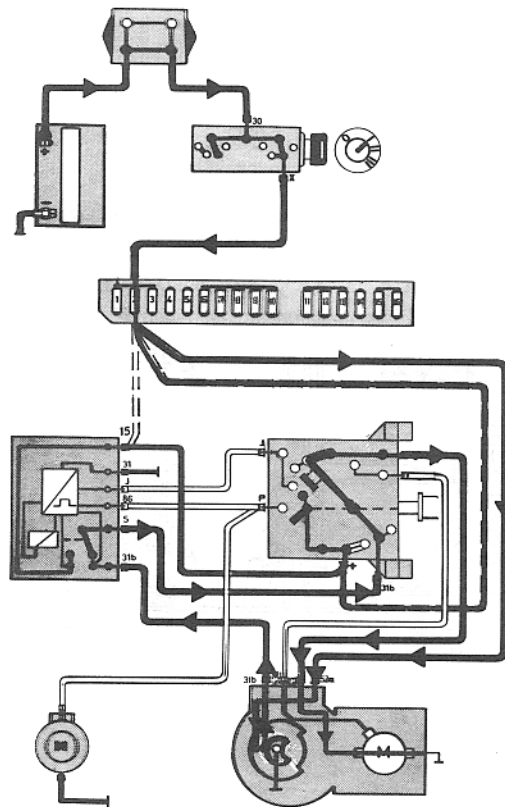


Windscreen wash/wipe

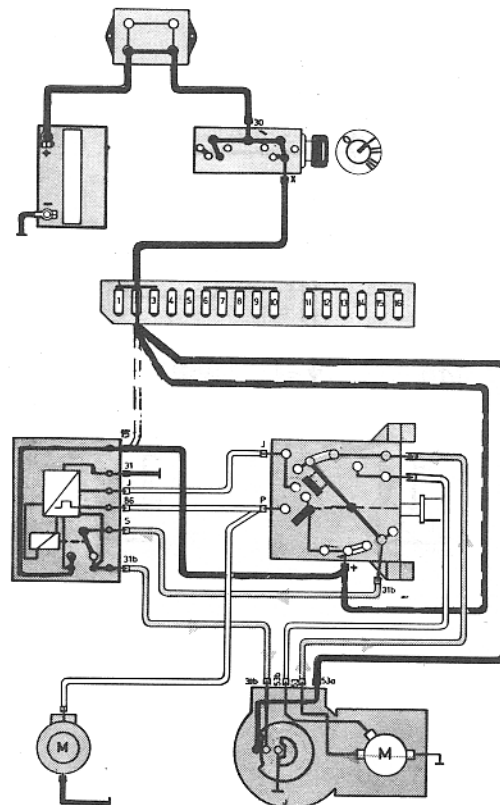
4 Wash and a few wipes



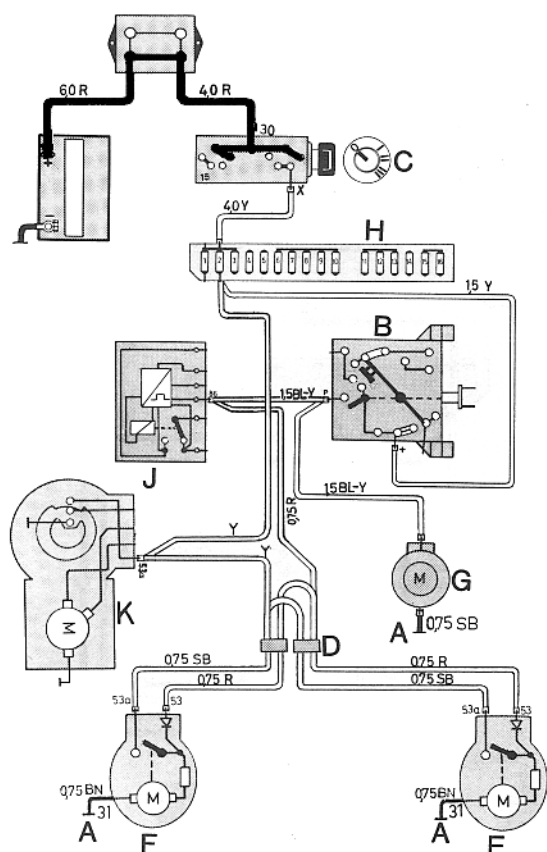
5
Parking sweep



6
Parking stop



Headlamp wash/wipe

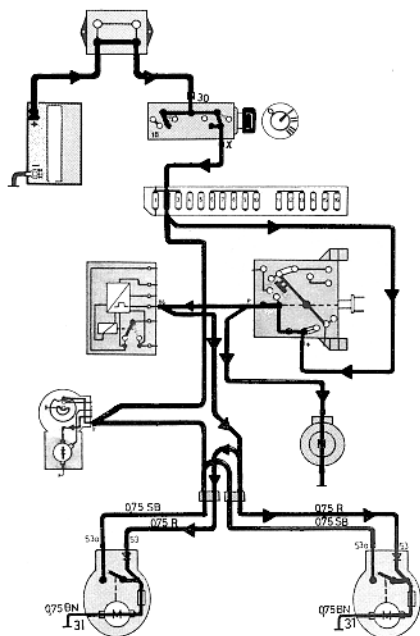


- A Ground connection
- B Stalk for windscreen wash/wipe
- C Ignition switch
- D Connectors
- E Wiper motor (left)
- F Wiper motor (right)
- G Washer motor
- H Fusebox
- J Interval relay
- K Windscreen wiper motor

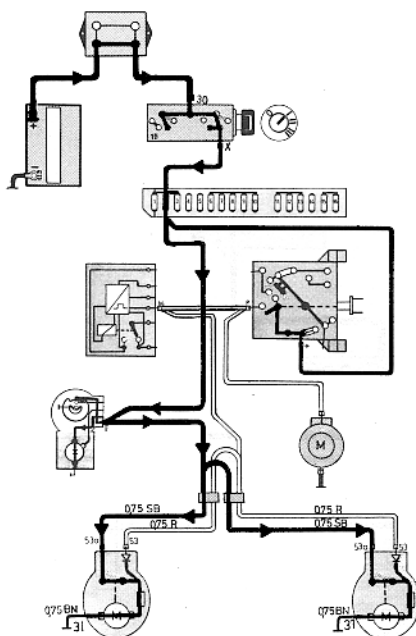
Fuse No. 2

Horn

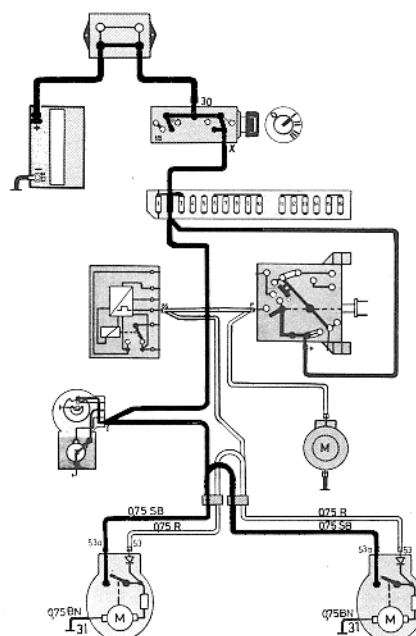
Wash/wipe ON



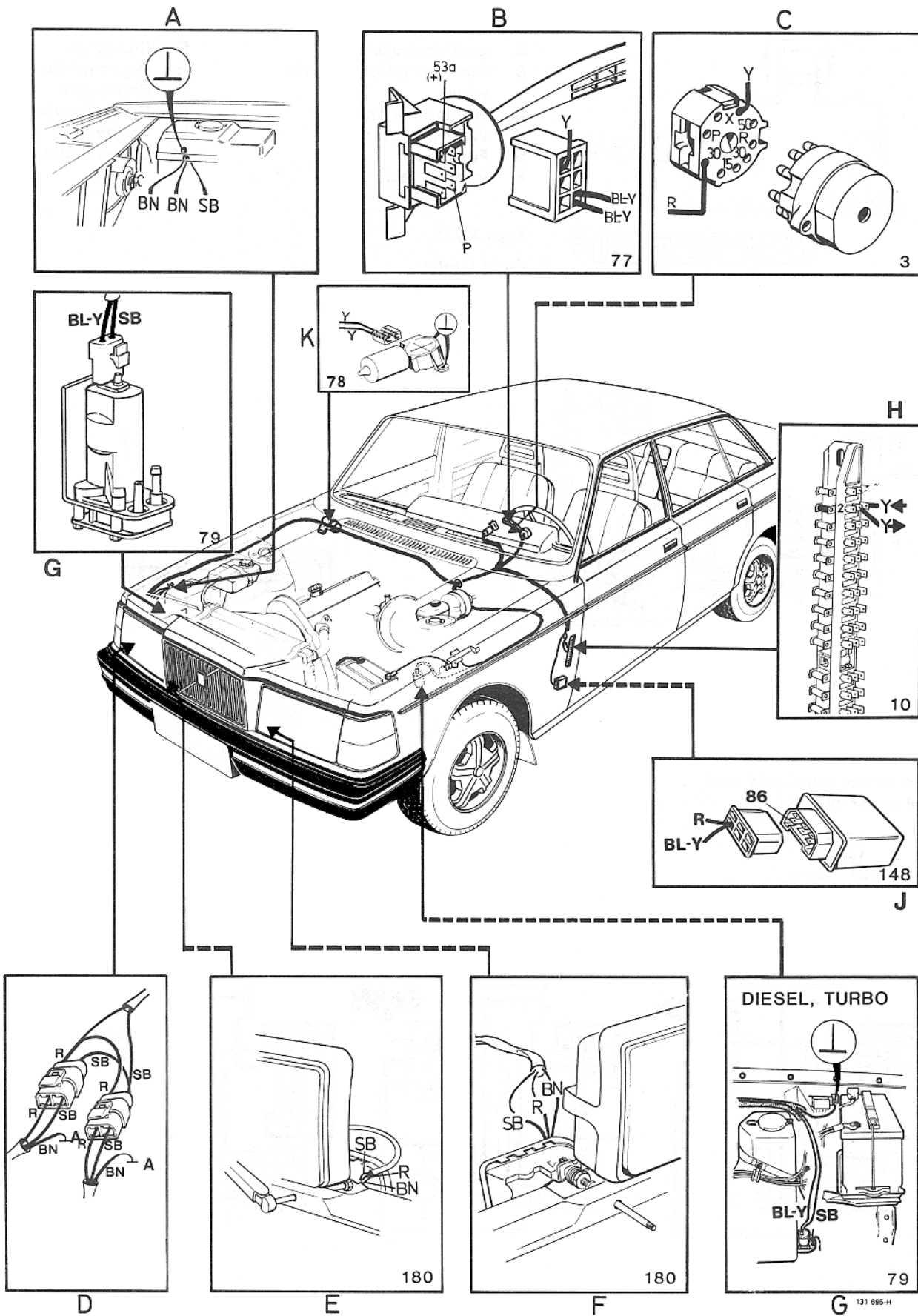
Park sweep



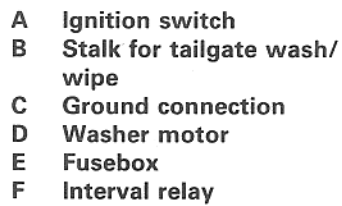
Park stop



Headlamp wash/wipe

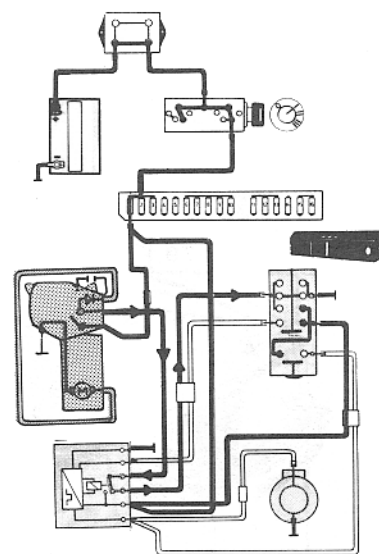


(with interval relay)

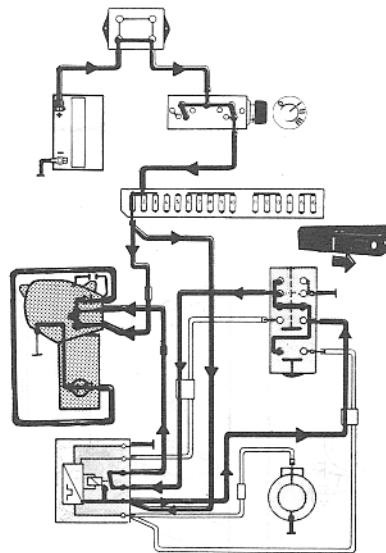
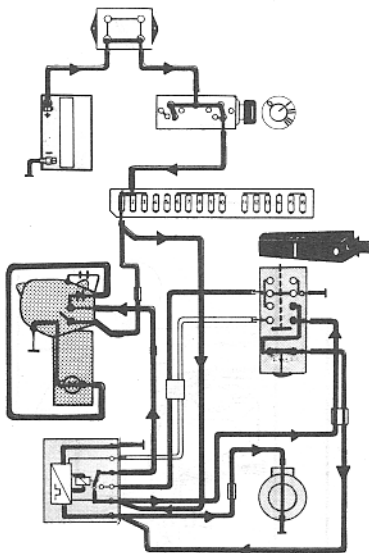


- G Connector
H Wiper motor
J Connector
K Ground connection
L Connector
M Ground connection

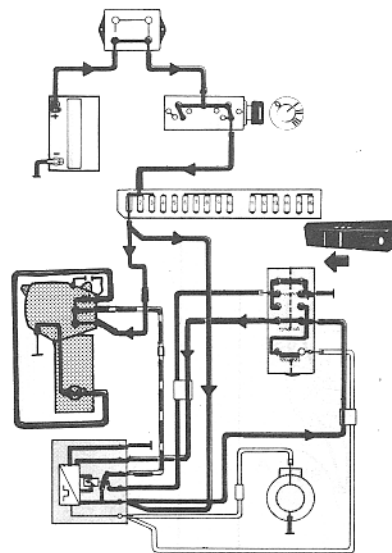
Park stop



Wiper motor connected

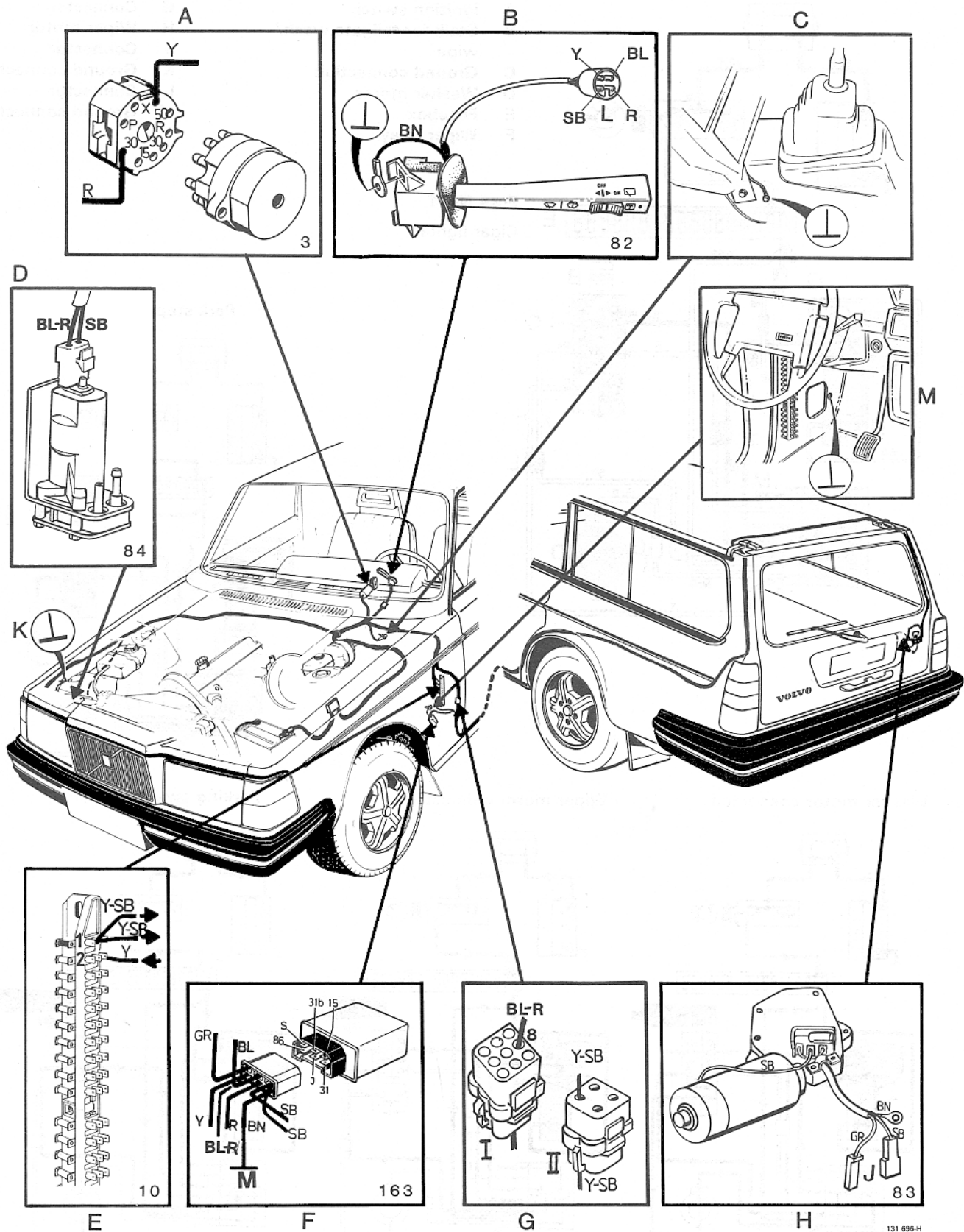


Intermittent wiping



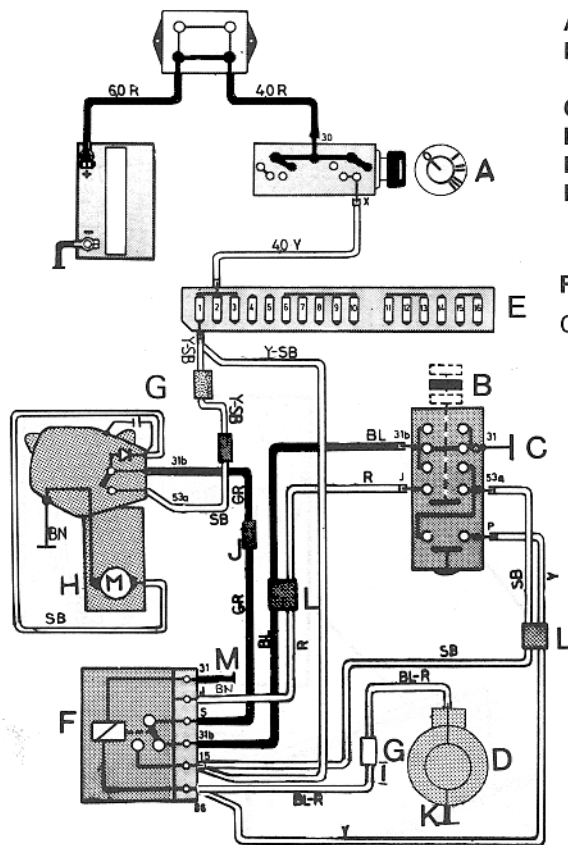
Tailgate window wash/wipe, 245, 265

(with interval relay)



Tailgate window wash/wipe, 245, 265

(without interval relay)

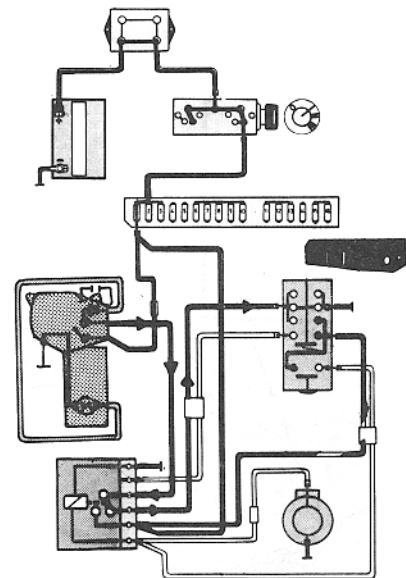


- A Ignition switch
- B Stalk for tailgate wash/wipe
- C Ground connection
- D Washer motor
- E Fusebox
- F Wiper relay

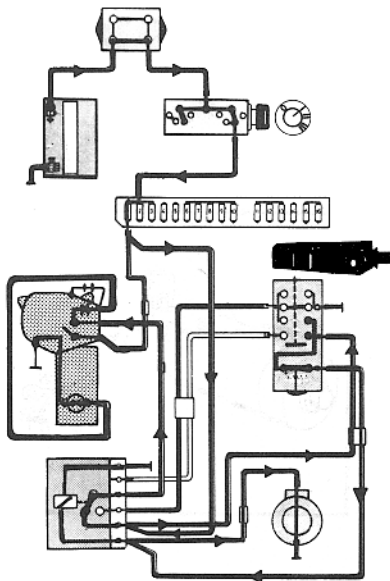
- G Connector
- H Wiper motor
- J Connector
- K Ground connection
- L Connector
- M Ground connection

Fuse No. 1
Cigar lighter

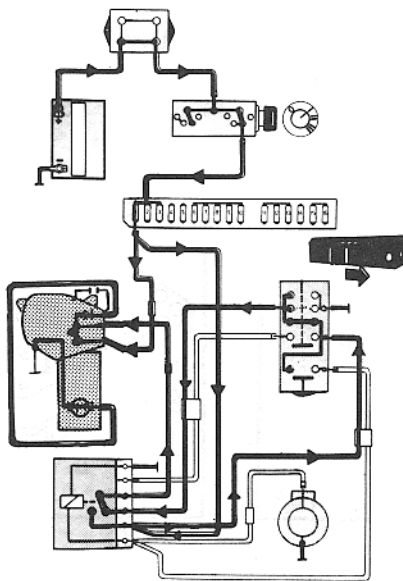
Park stop



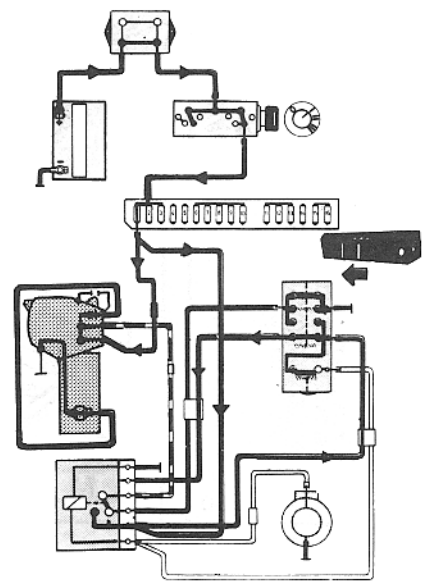
Washer motor connected



Wiper motor connected

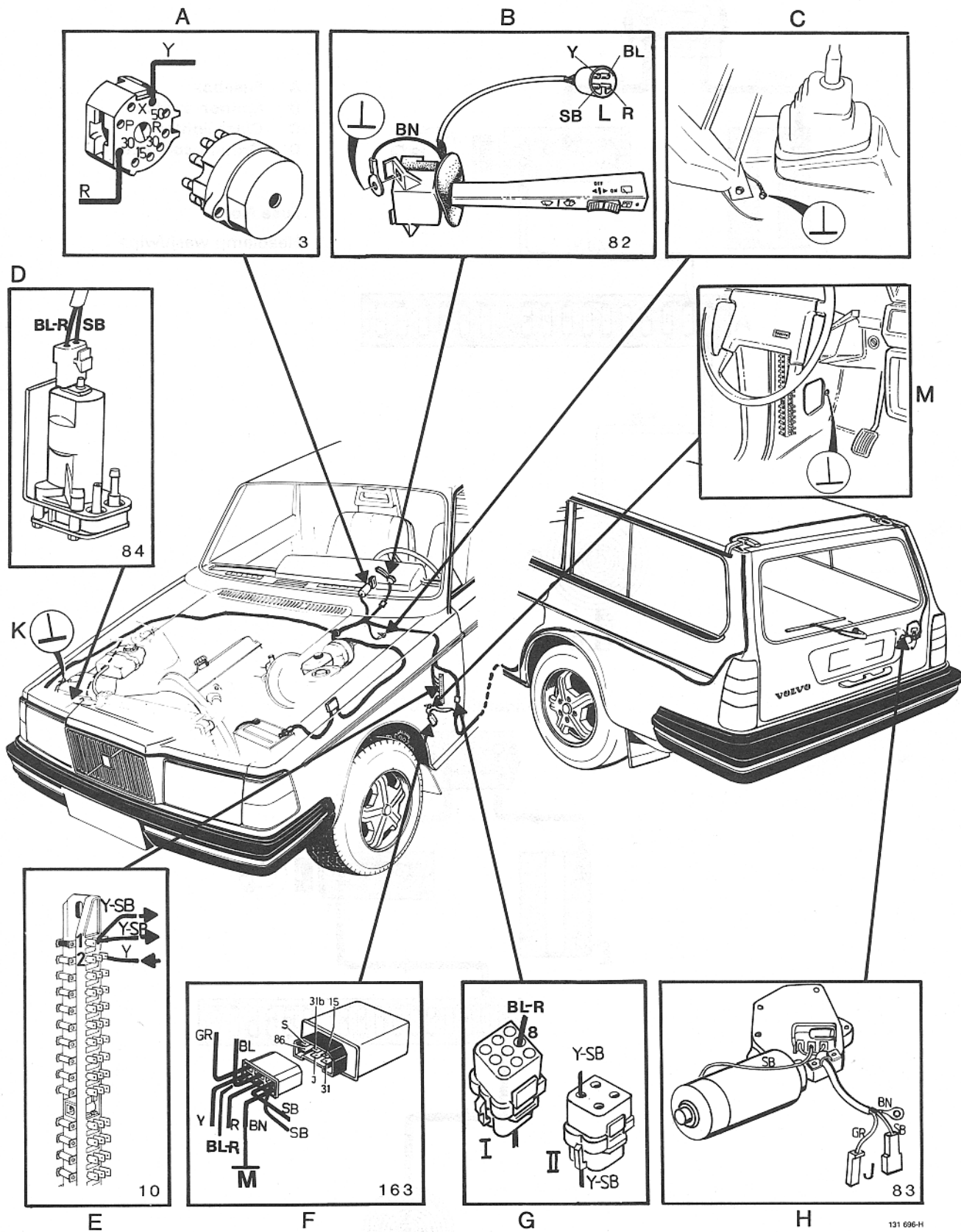


Parking sweep

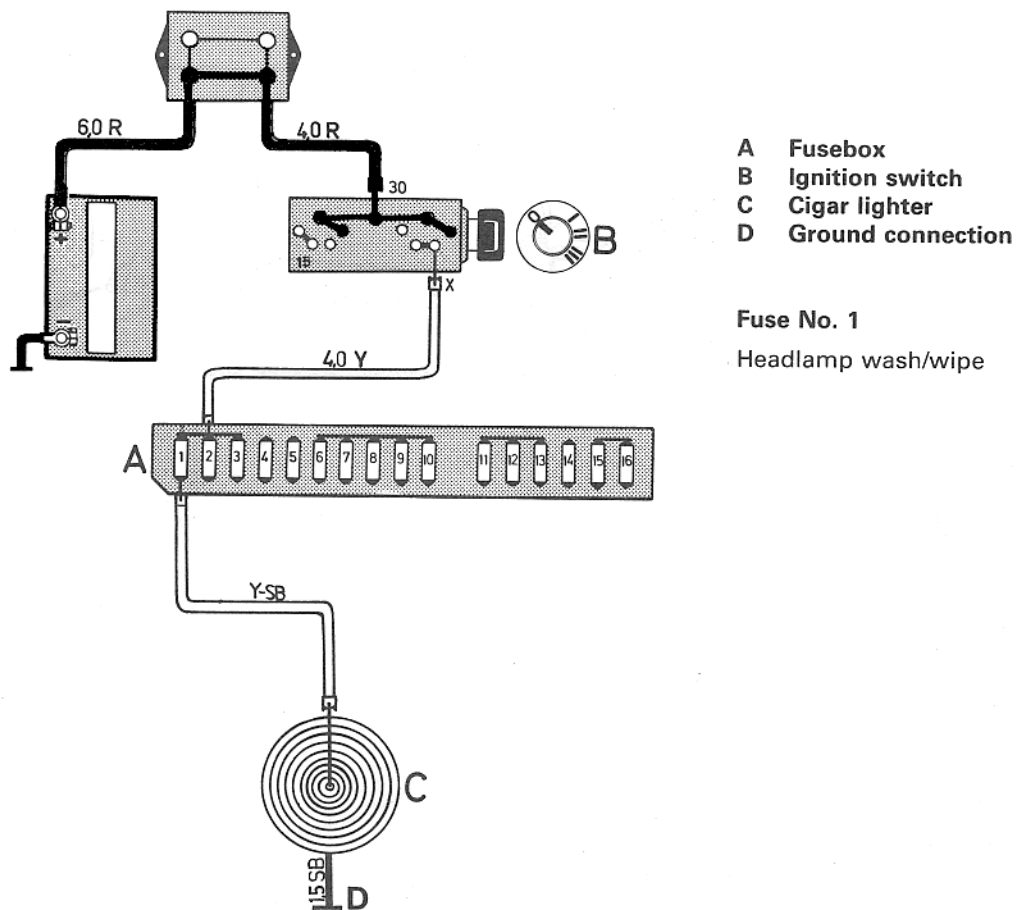


Tailgate window wash/wipe, 245, 265

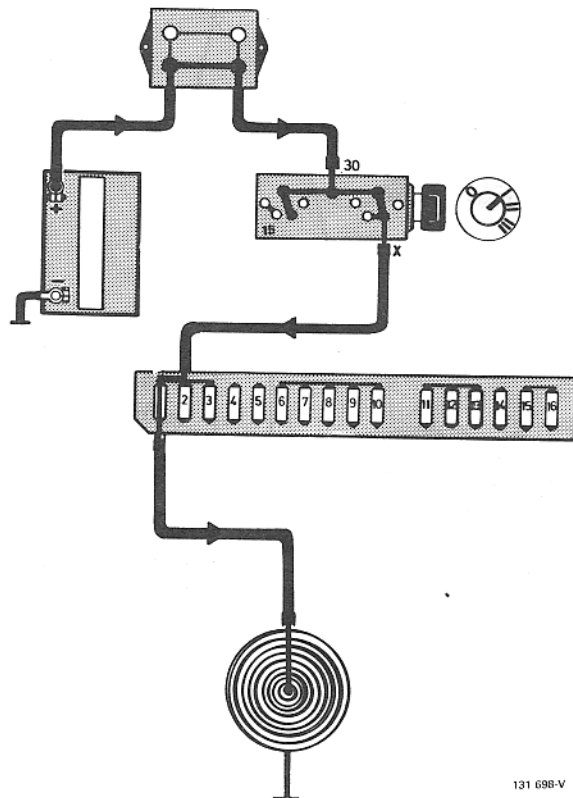
(without interval relay)



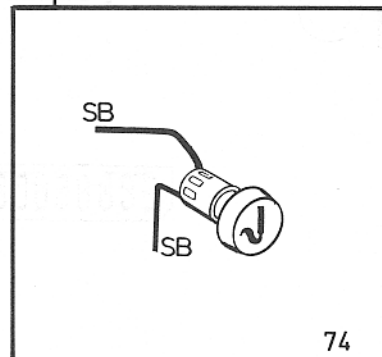
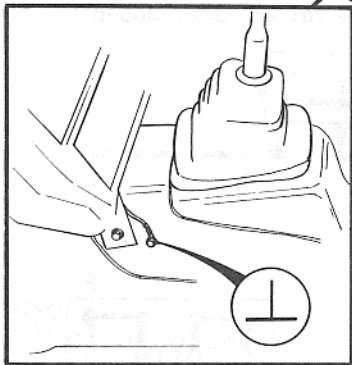
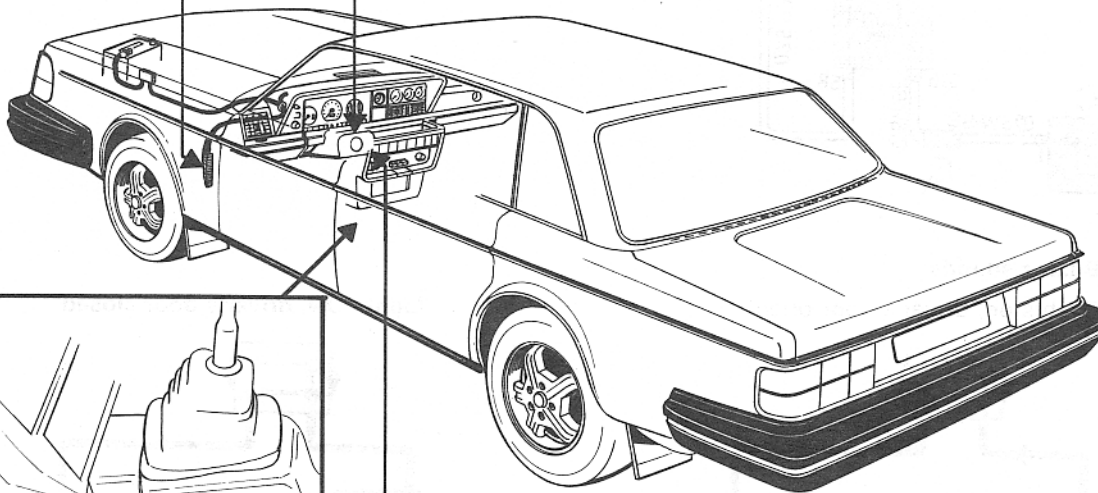
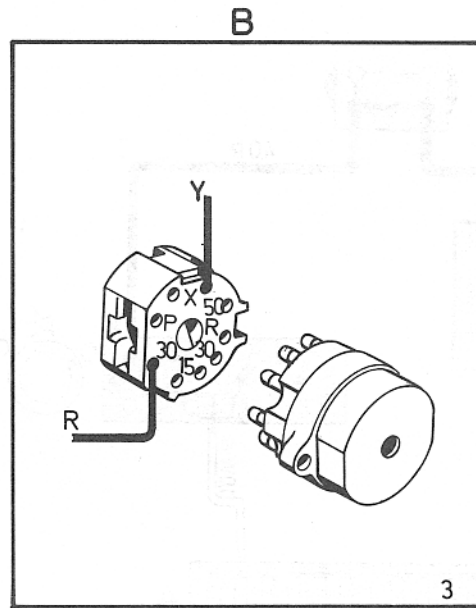
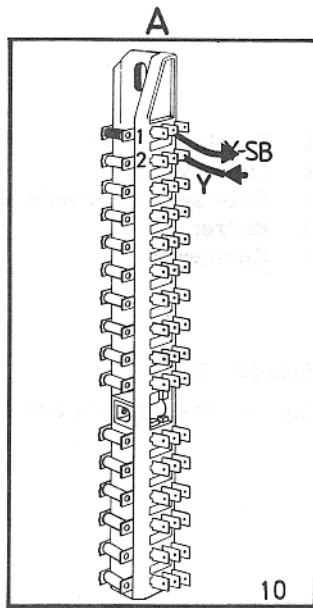
Cigar lighter



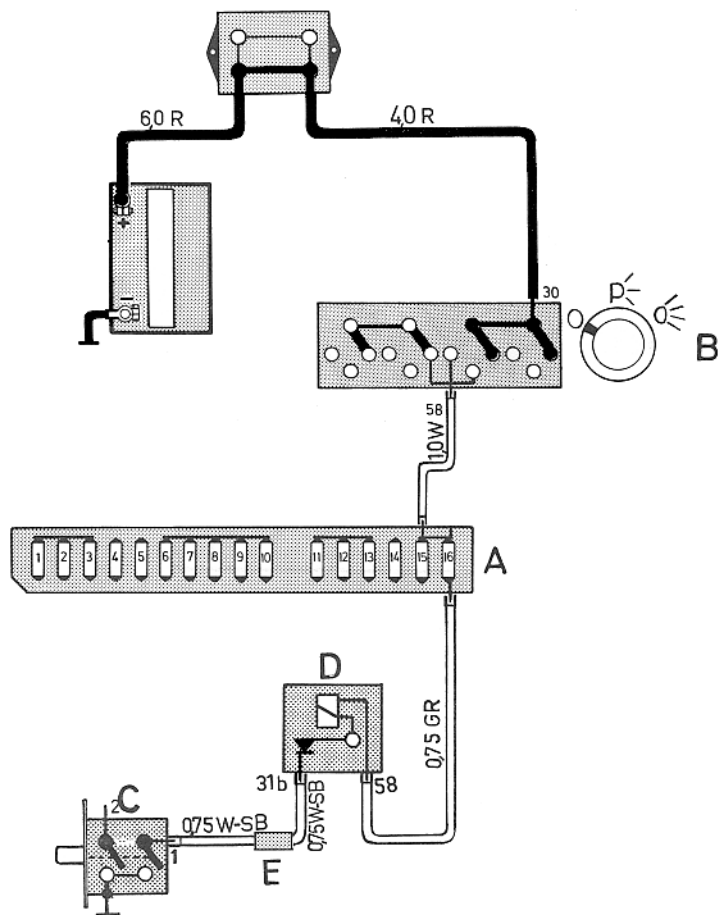
Cigar lighter ON



Cigar lighter



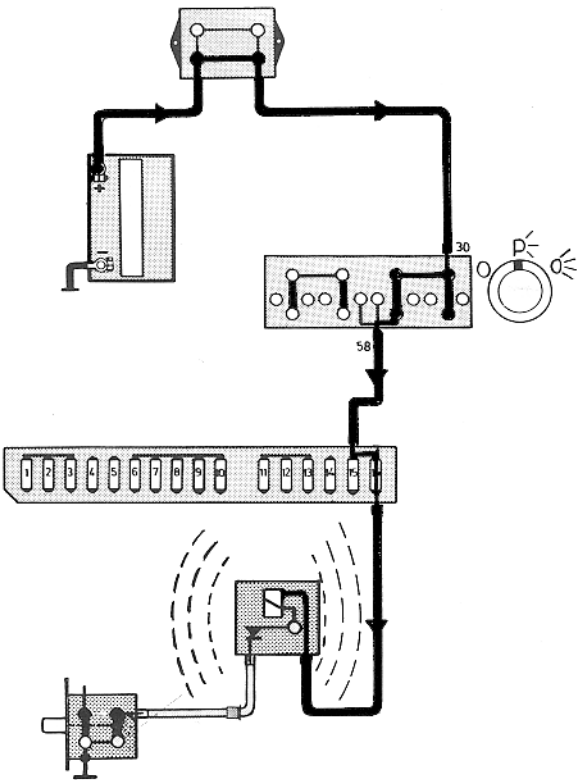
Lights-on reminder buzzer



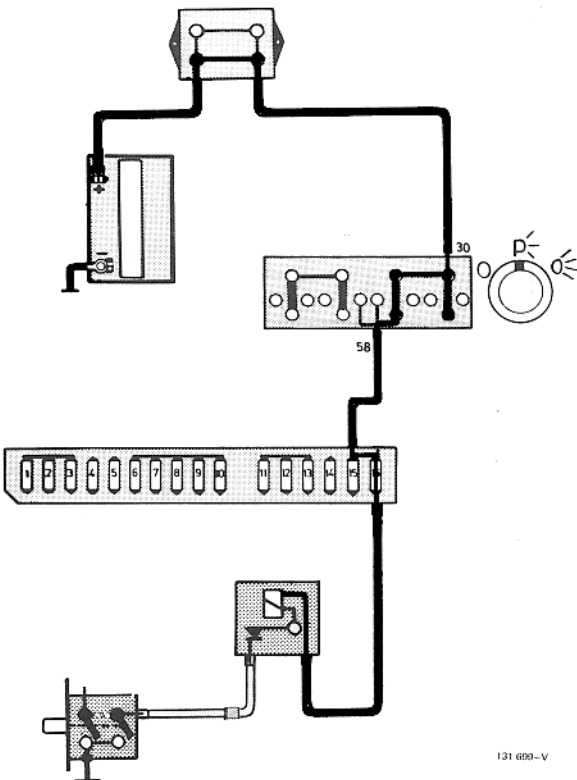
- A Fusebox
- B Light switch
- C Door switch, driver's side
- D Buzzer
- E Connector

Fuse No. 6
Lighting, instruments and controls

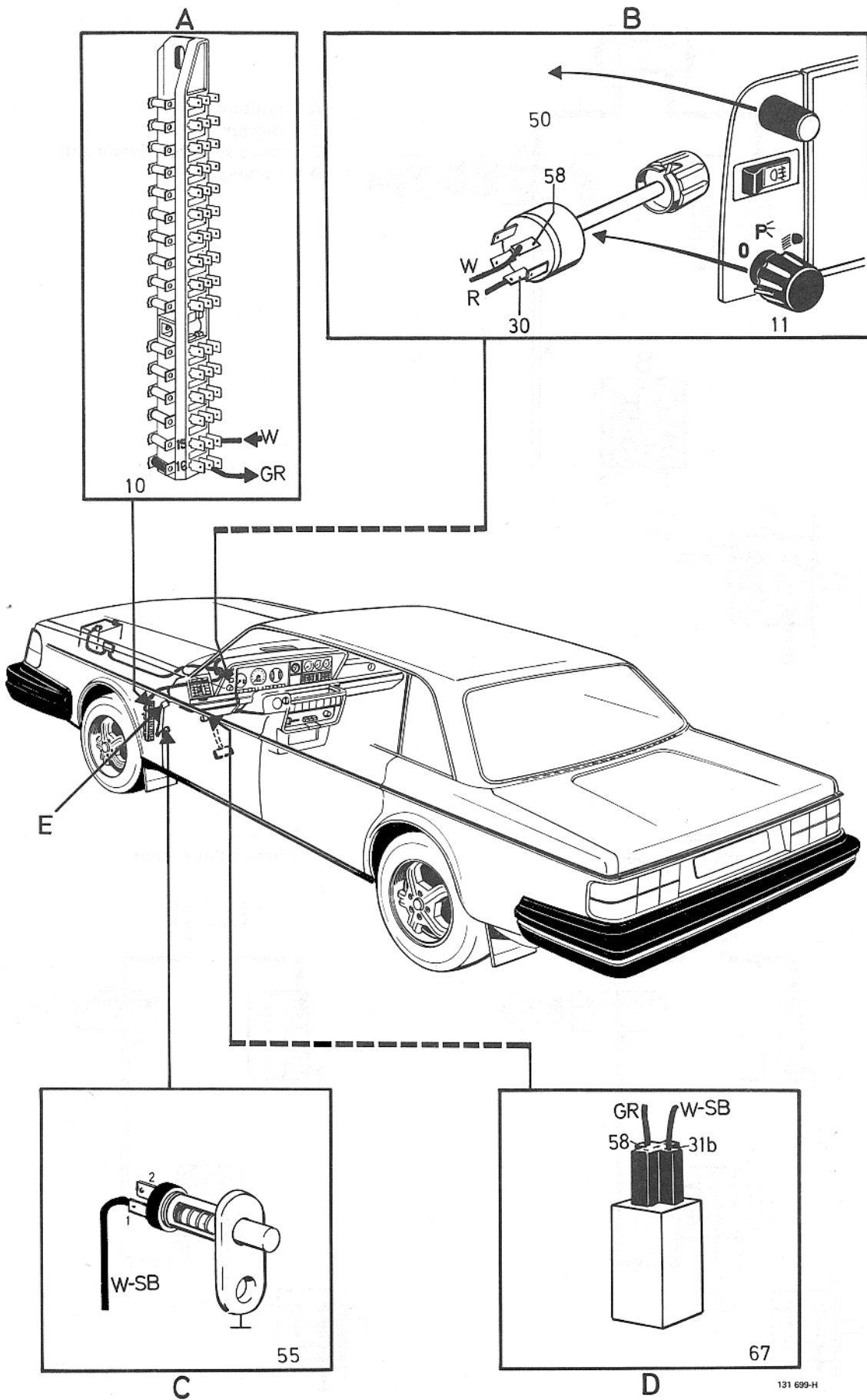
Buzzer sounds
(Lights on, driver's door open)



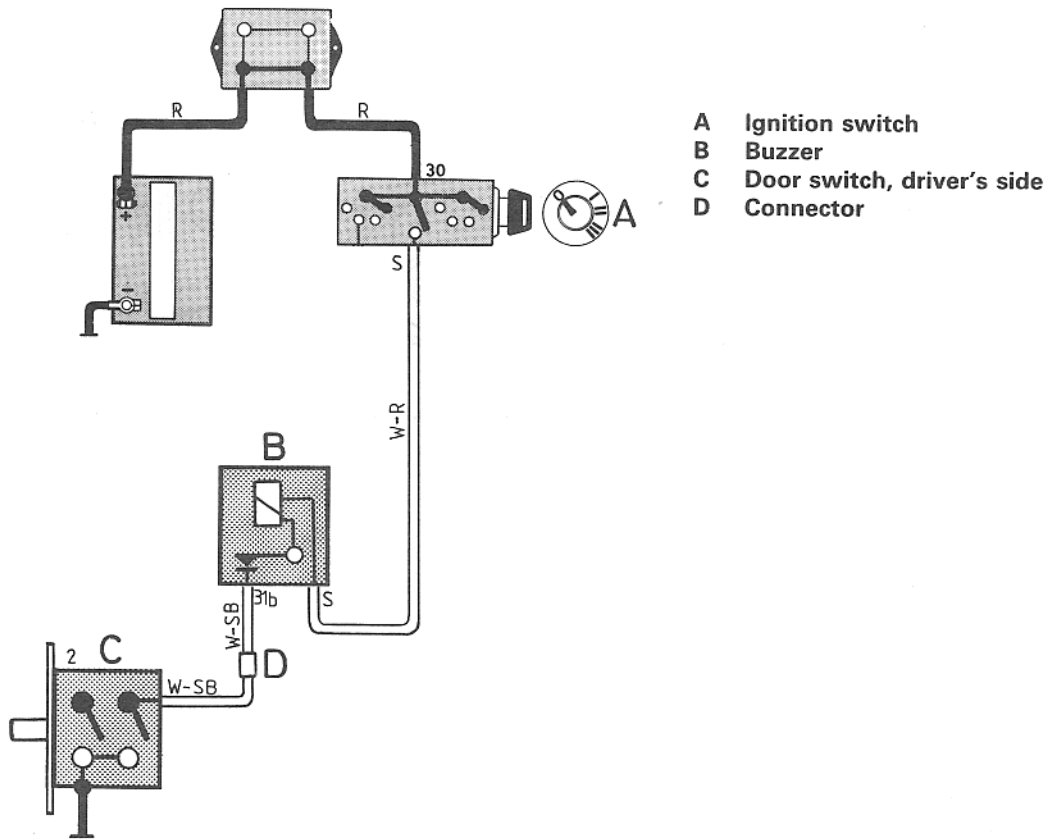
Lights ON, driver's door closed



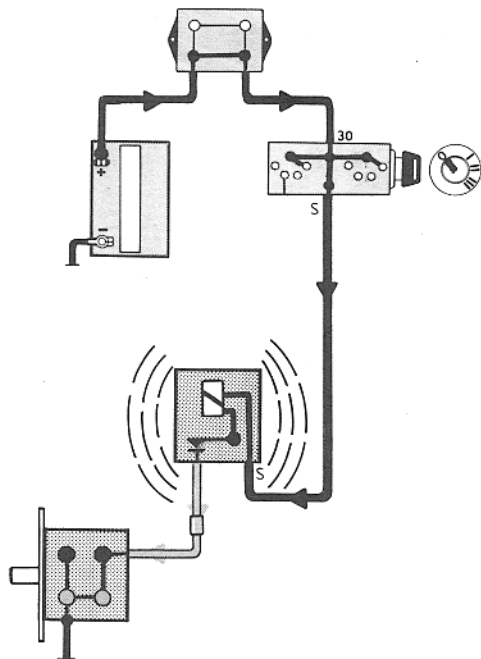
Lights-on reminder buzzer



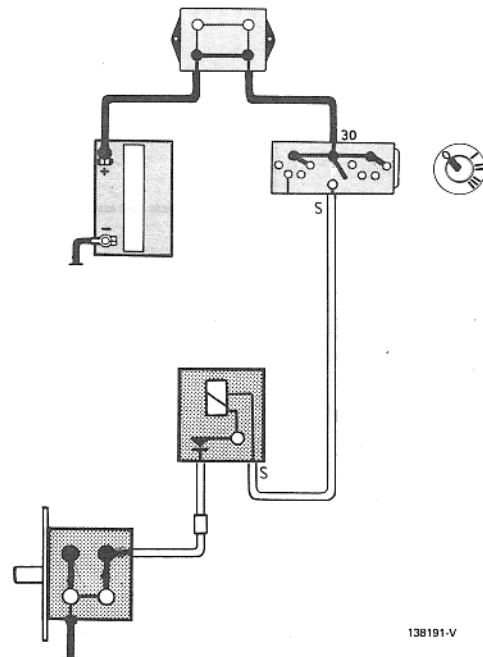
Key reminder buzzer



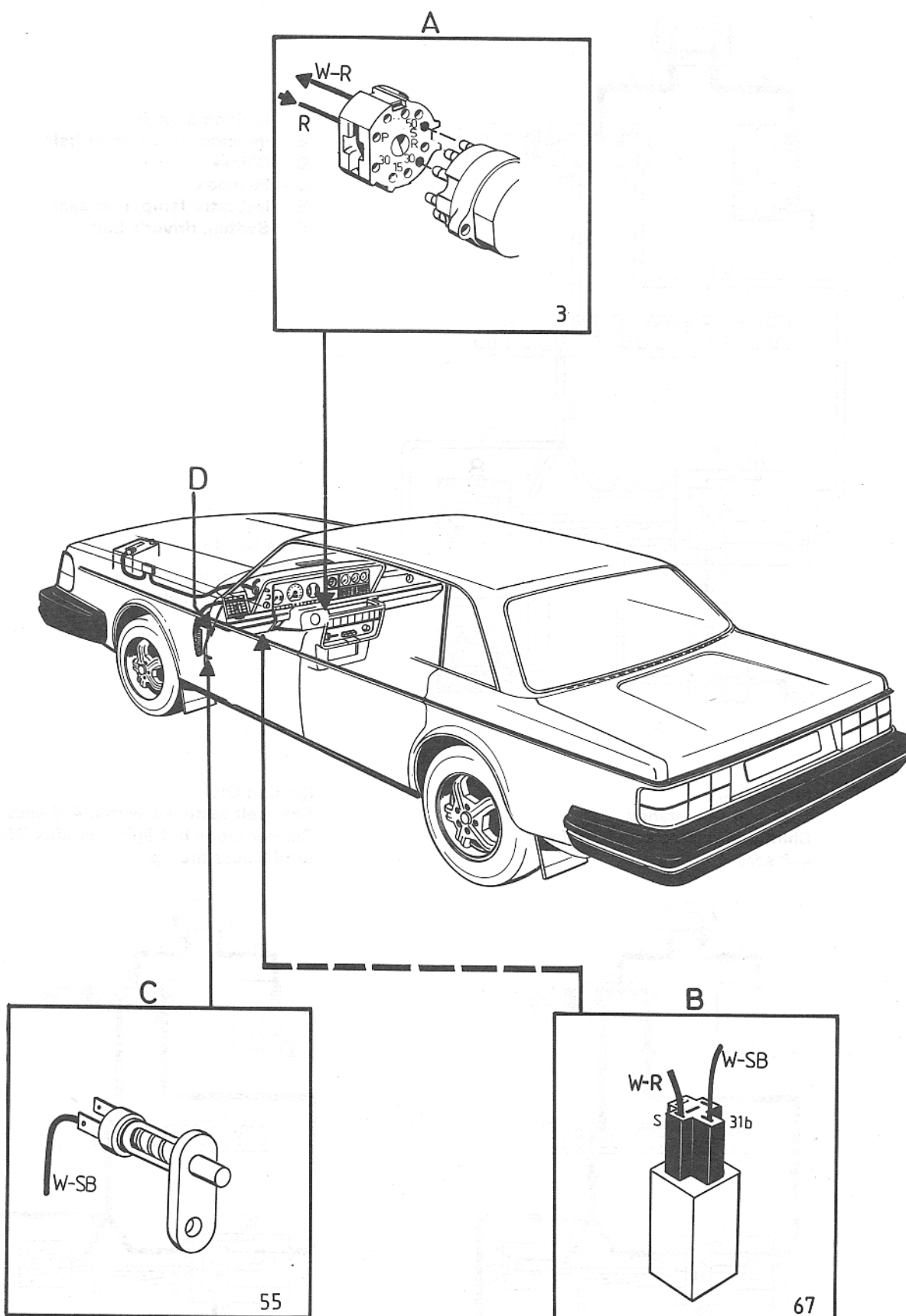
**Key in lock
Driver's door open**



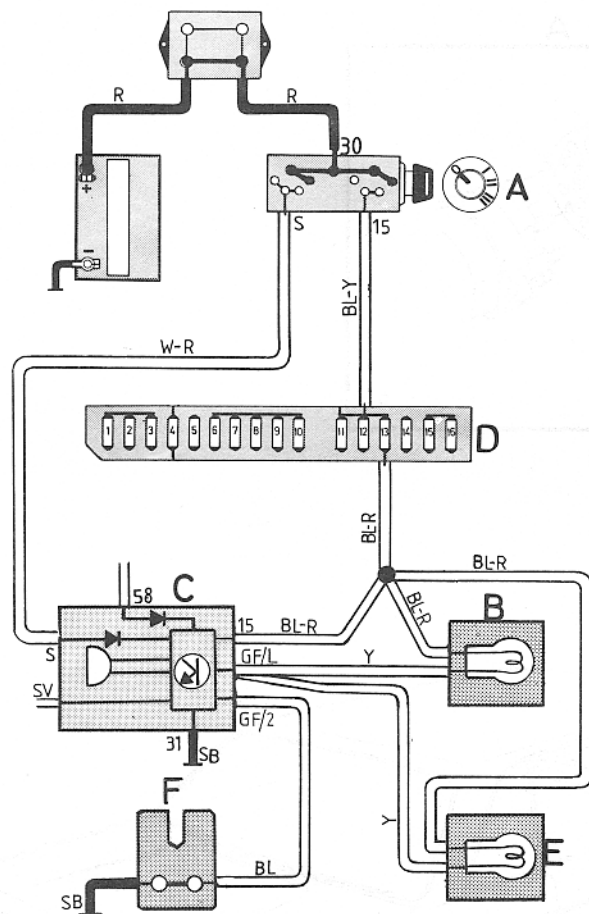
**No key
Driver's door open**



Key reminder buzzer



Seat belt reminder, USA



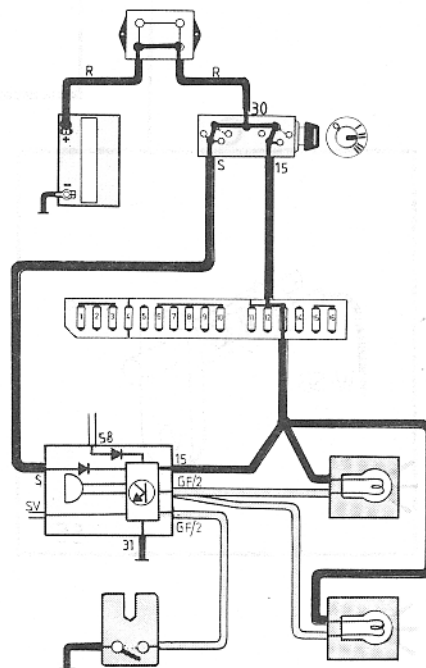
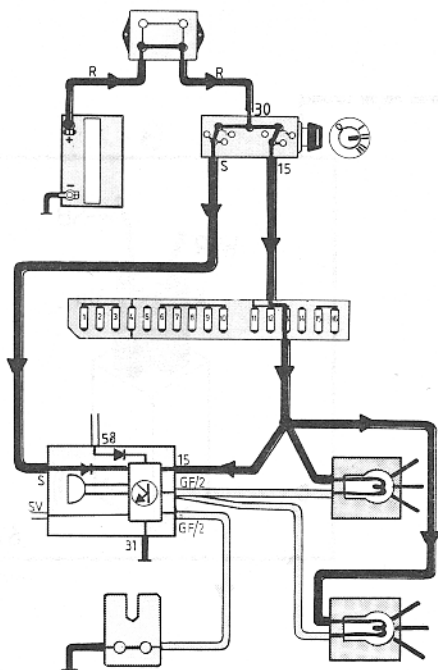
- A Ignition switch
- B Indicator lamp, front belt
- C Chime
- D Fusebox
- E Indicator lamp, rear seat
- F Switch, driver's belt

Fuse No. 13

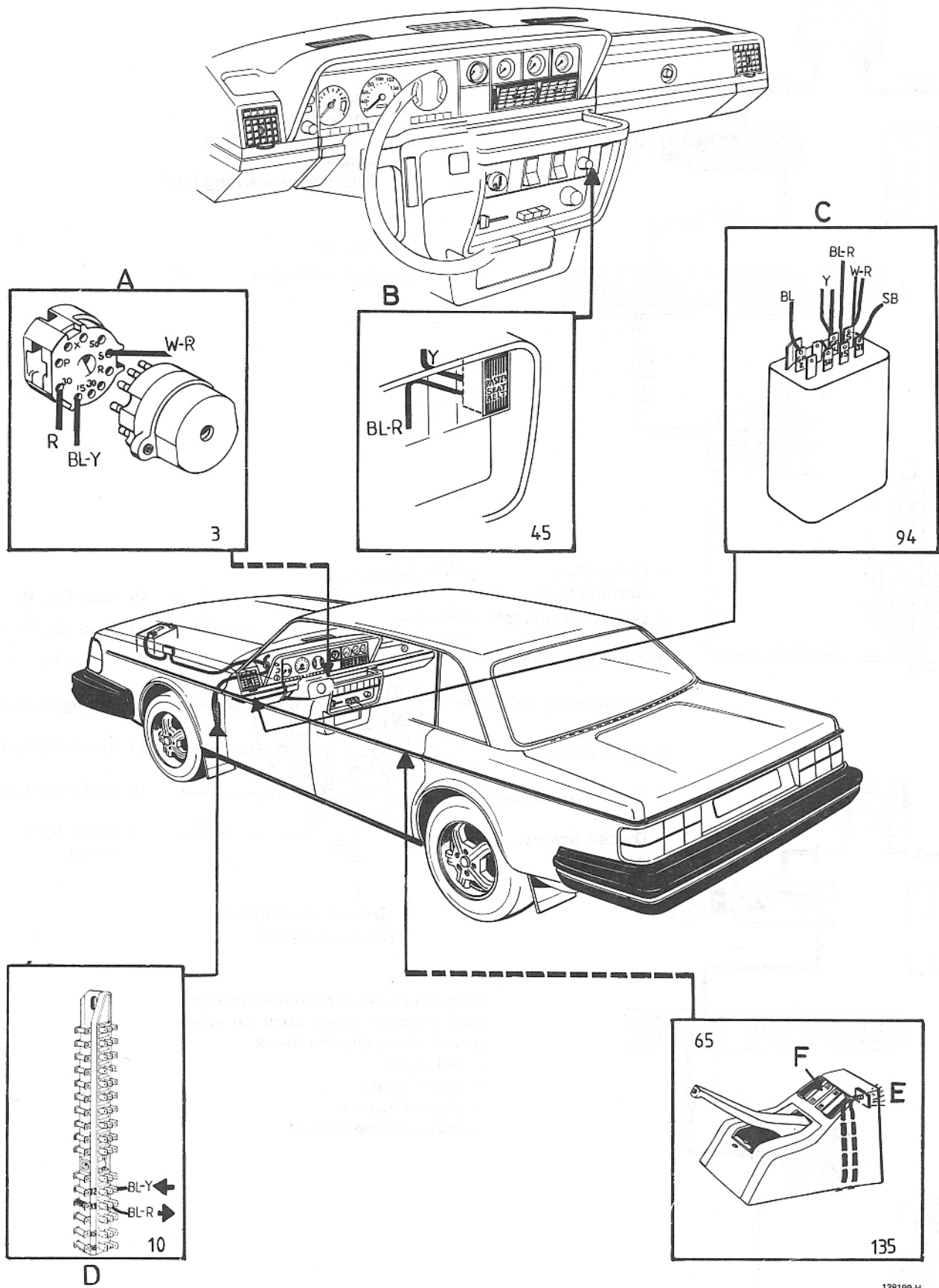
Combined instrument
Direction indicators

Ignition ON
Seat belt unfastened
Chimer and light activated for
4-8 secs

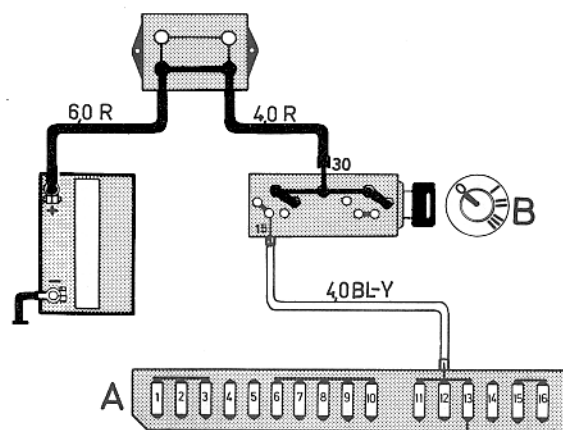
Ignition ON
Seat belt fastened within 4-8 secs
Chimer stops but light remains ON
until 8 secs are up



Seat belt reminder, USA

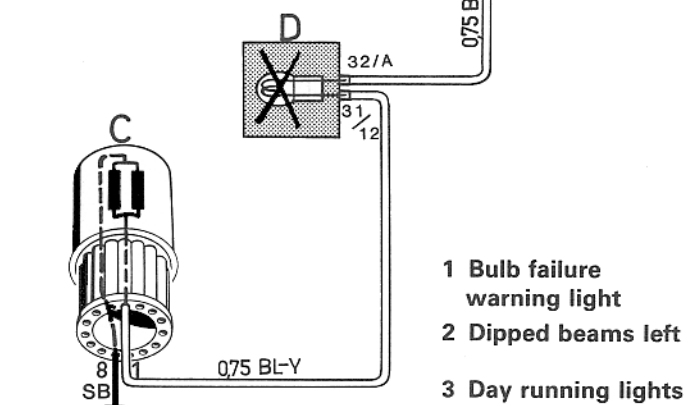


Bulb failure warning sensor

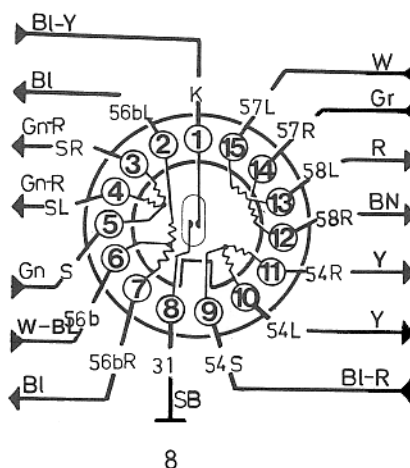


- A Fusebox
- B Ignition switch
- C Bulb failure warning sensor
- D Bulb failure warning light

Fuse No. 13
Direction indicators

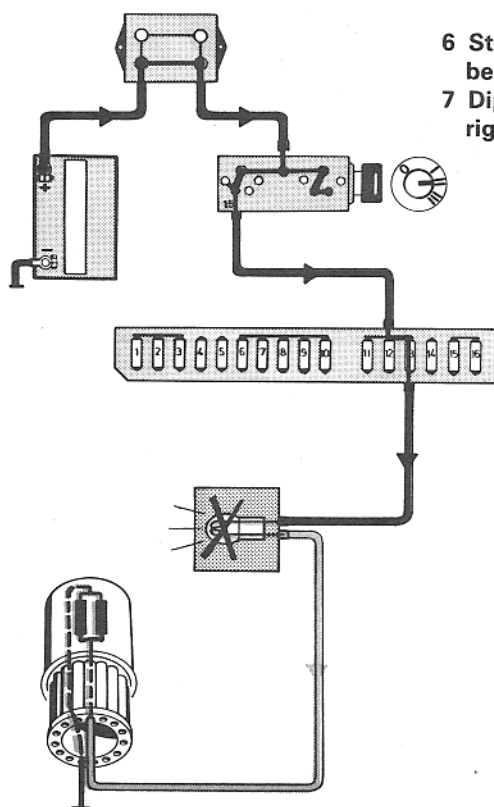


- 1 Bulb failure warning light
- 2 Dipped beams left
- 3 Day running lights
- 4 Day running lights
- 5 Light switch
- 6 Step relay, dipped beams
- 7 Dipped beams, right



- 15 Fuse No. 15
- 14 Fuse No. 16
- 13 Tail light, left
- 12 Tail light, right
- 11 Brake light, right
- 10 Brake light, left
- 9 Brake light switch

8
Ground connections
(warning lights)

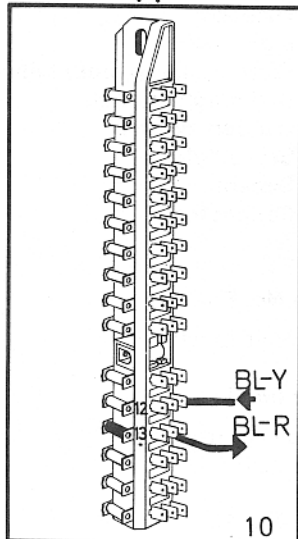


Bulb failure warning sensor grounds and warning lights goes on when any of these circuits break

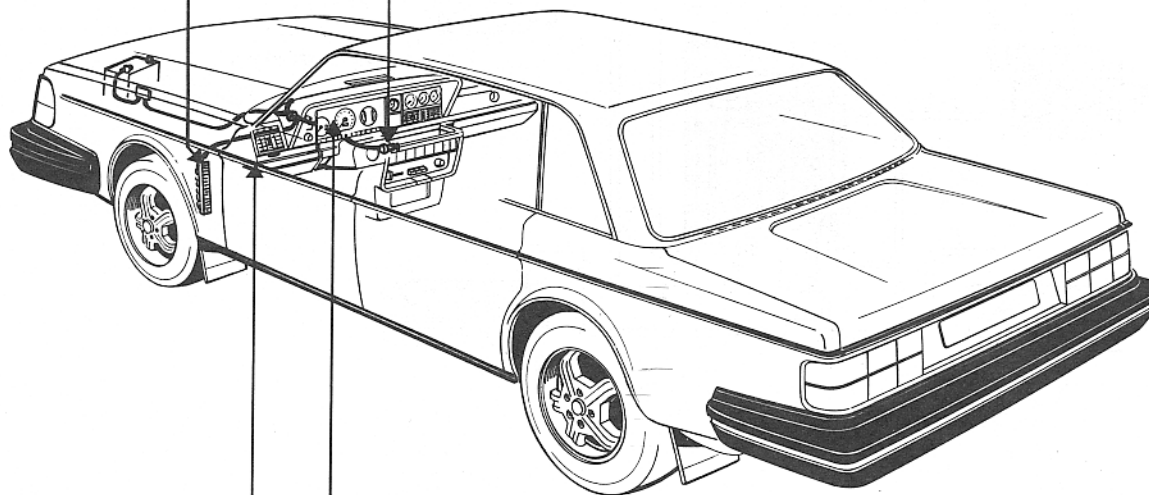
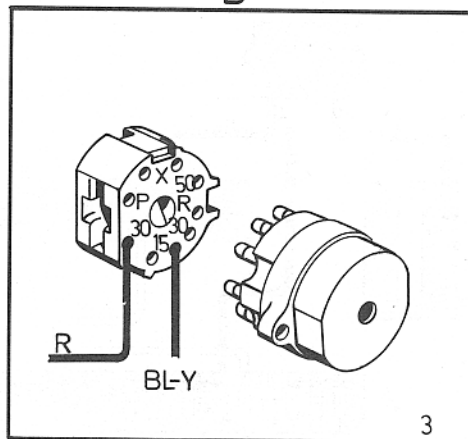
- tail lights
- brake lights
- dipped beams
- (day running lights)

Bulb failure warning sensor

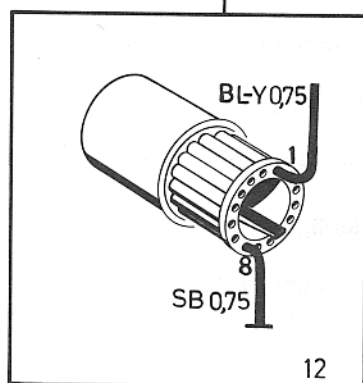
A



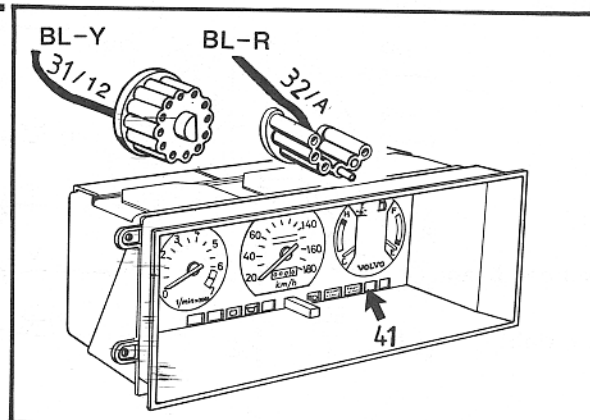
B



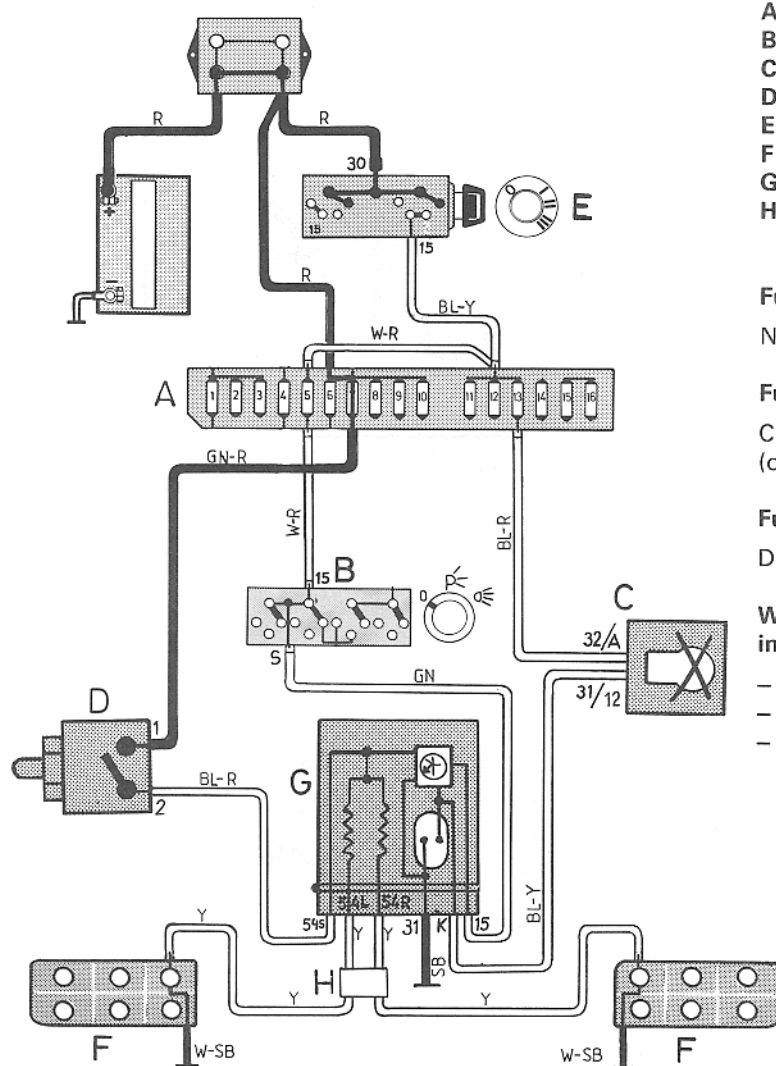
C



D



Bulb failure warning sensor + brake light control, Europe



- A Fusebox
- B Light switch
- C Warning lamp, bulb failure
- D Brake light switch
- E Ignition switch
- F Brake light
- G Sensor
- H Connector

Fuse No. 5

No other functions

Fuse no. 7

Cruise control
(optional)

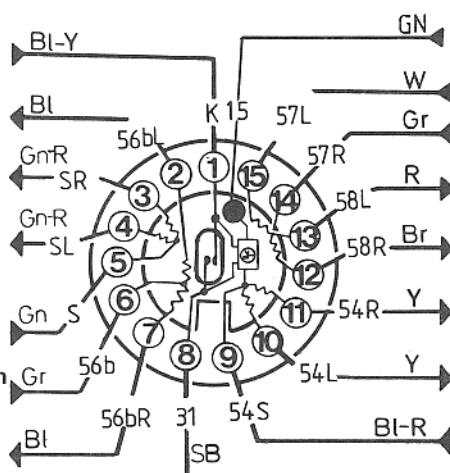
Fuse No. 13

Direction indicators

Warning lamp lights up if a bulb in the following circuits blows:

- tail light
- brake light
- dipped beam

- 1 Warning lamp, bulb failure
- 2 Dipped beam, left
- 3 Vacant
- 4 Vacant
- 5 Light switch
- 6 Step relay, dipped beam
- 7 Dipped beam, right



Light switch

15 Fuse No. 15

14 Fuse No. 16

13 Tail light, left

12 Tail light, right

11 Brake light, right

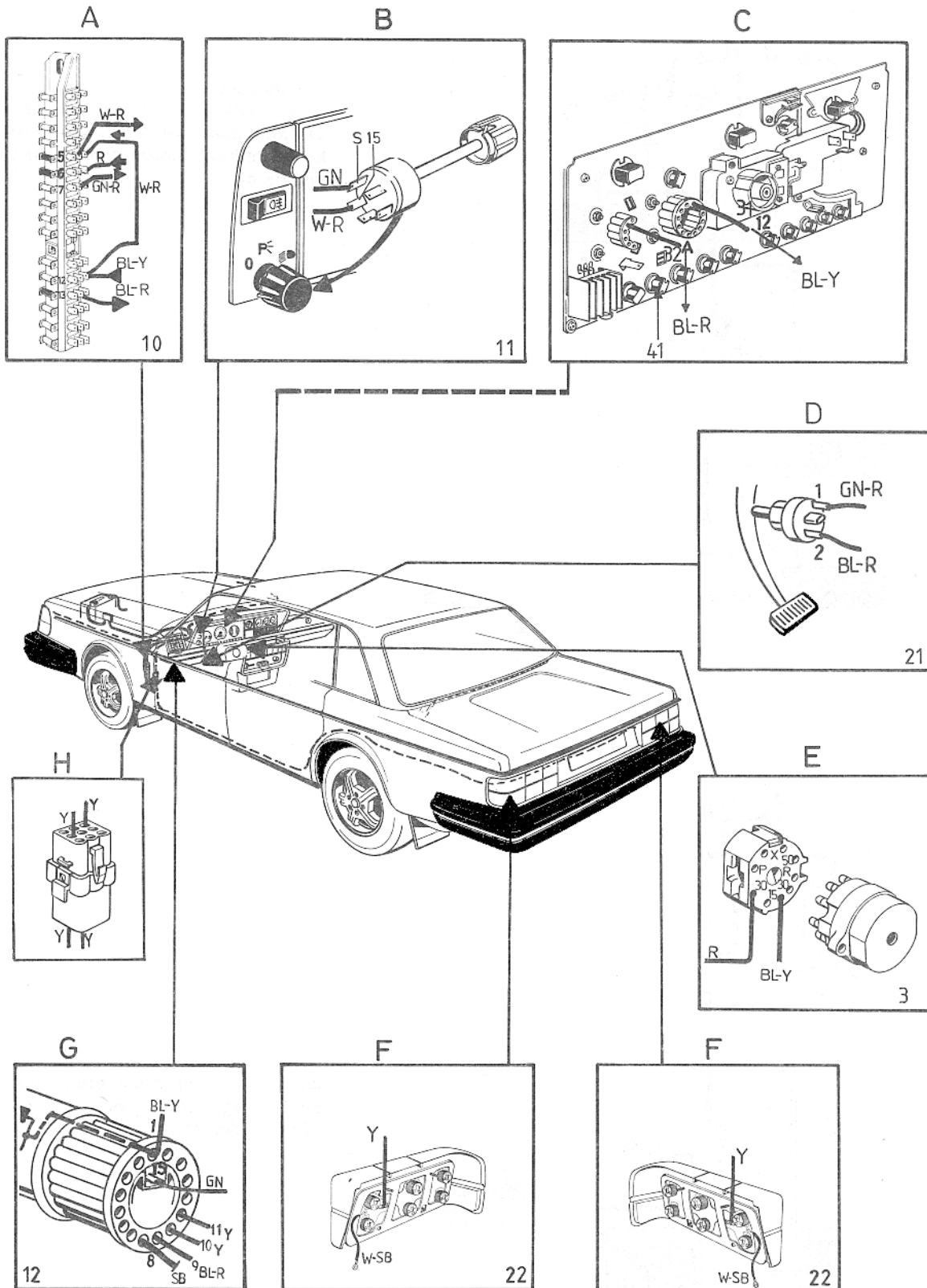
10 Brake light, left

9 Brake light switch

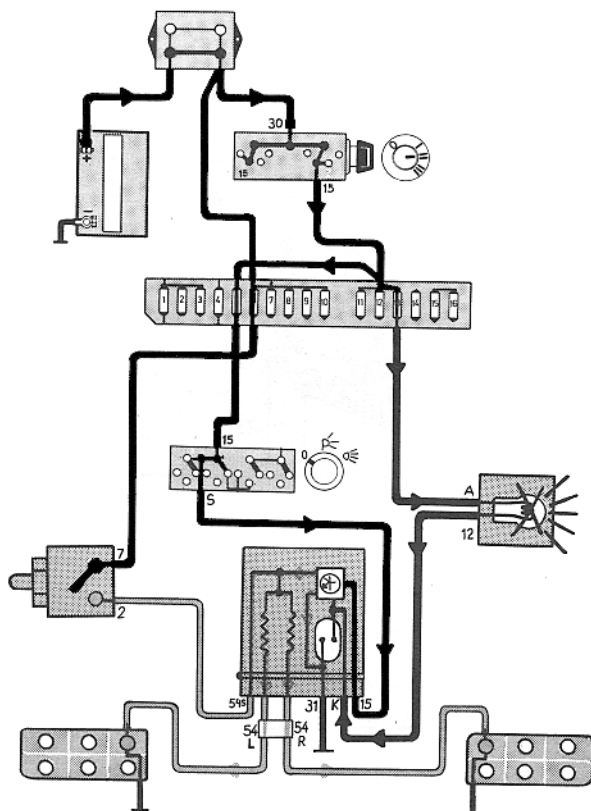
8 Warning lamp ground

138196-V

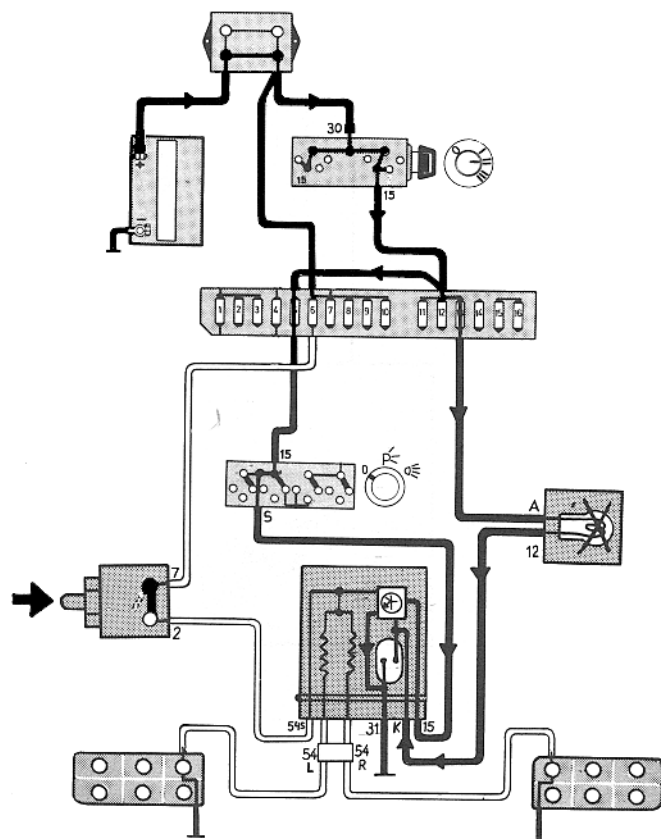
Bulb failure warning sensor + brake light control, Europe



Bulb failure warning sensor + brake light control, Europe

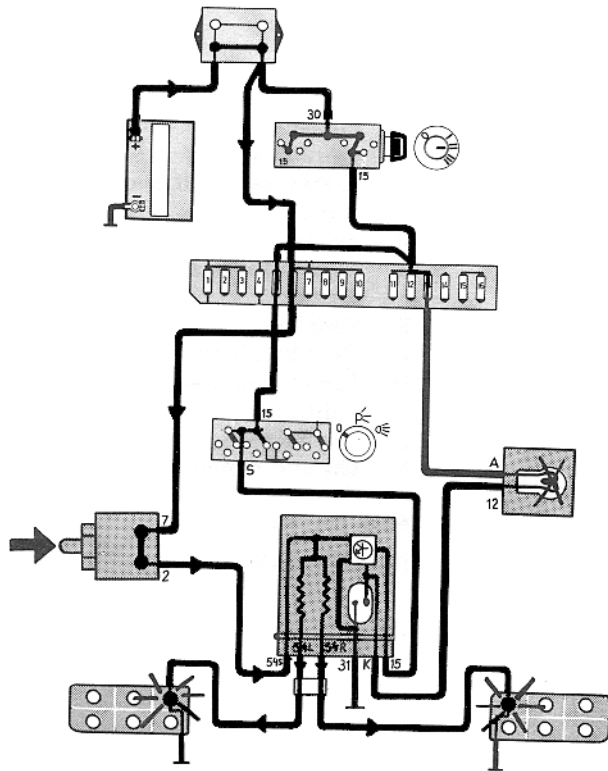


Engine running
Brake pedal not touched after start.
Warning lamp ON. Note: If both brake lights have blown warning lamp will be off.

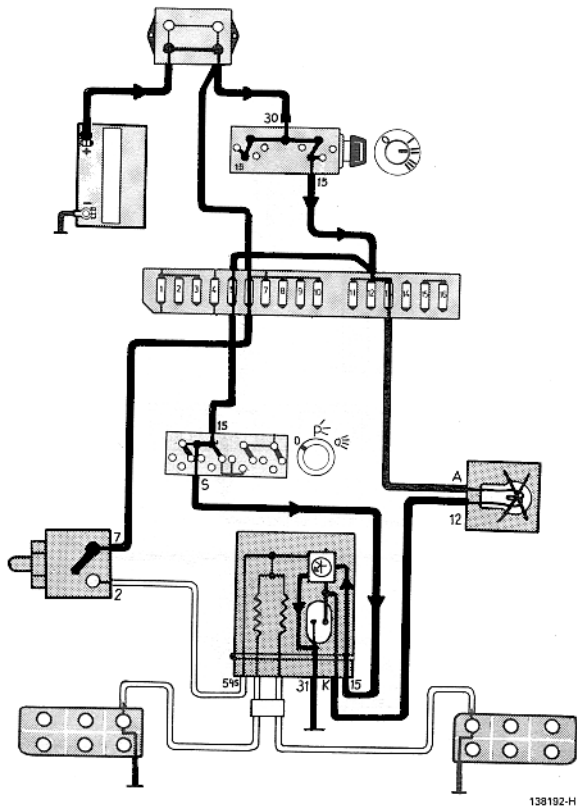


Engine running and brakes applied.
Warning lamp goes out as both lights come on. If lamp remains ON circuit is dead after brake lights switch (eg. blown fuse) or one of lights is defective.

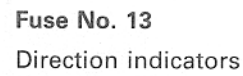
Bulb failure warning sensor + brake light control, Europe



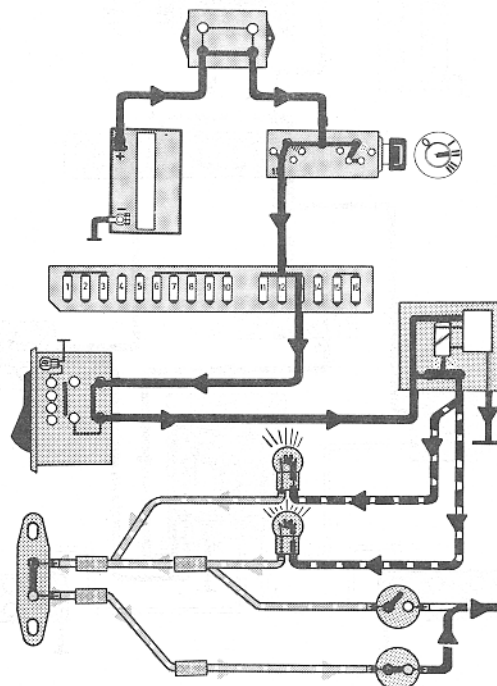
Engine running, brakes applied
Warning lamp goes off if circuit is OK



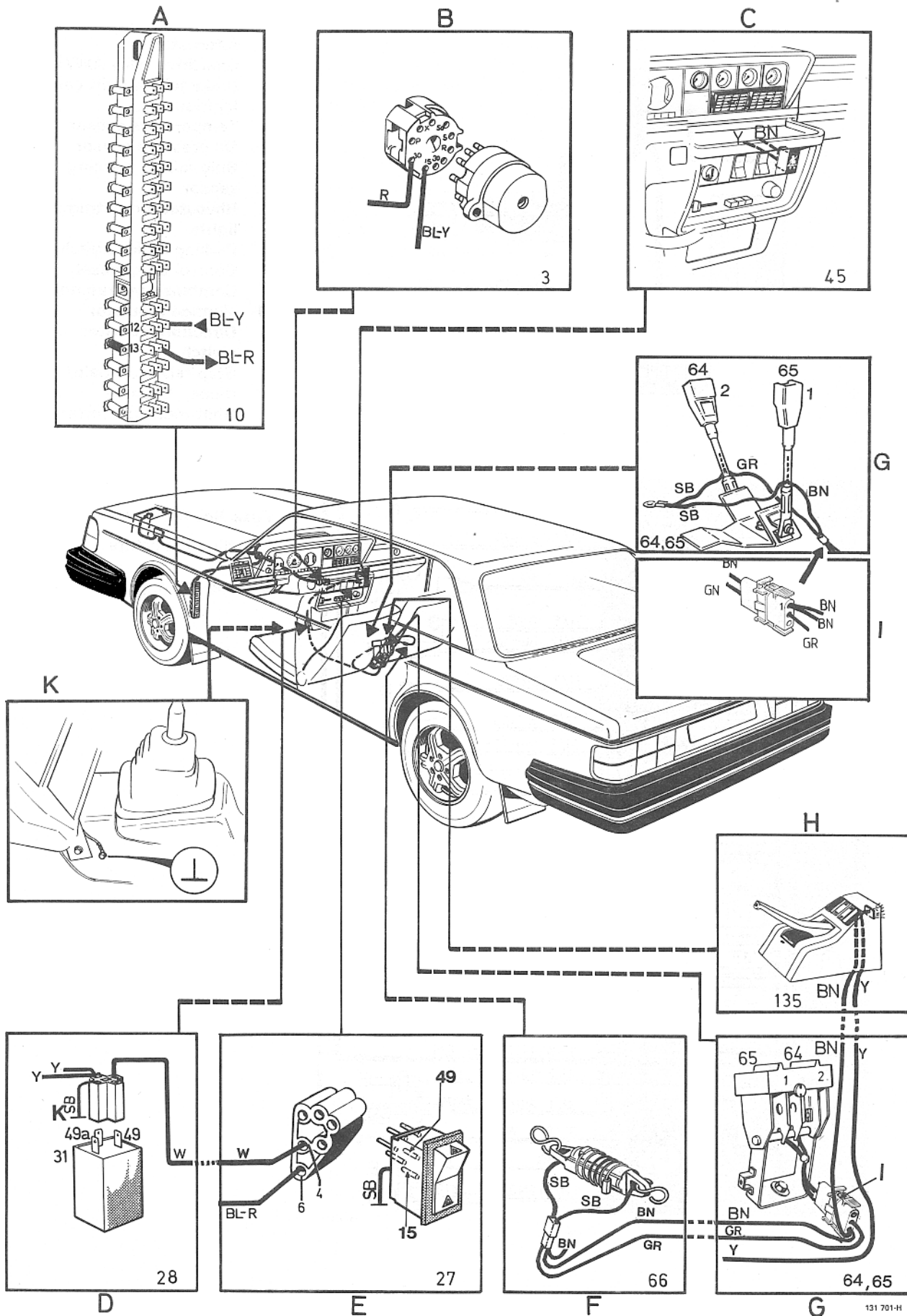
Engine running
Brake pedal released
Warning lamp OFF



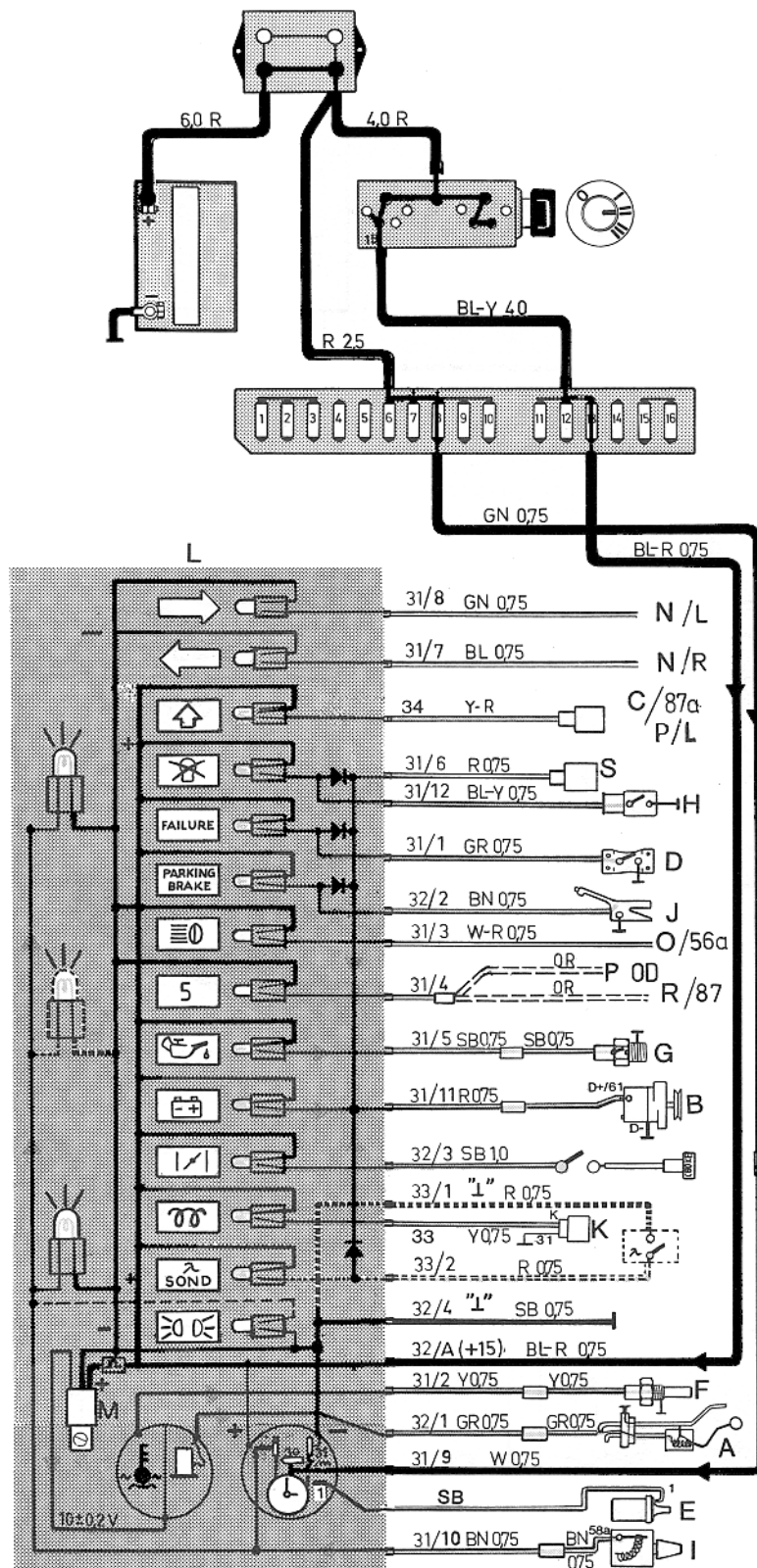
Passenger's seat
Ignition and seat belt switch ON
Belt not fastened



Fasten seat belt warning light



Combined instrument



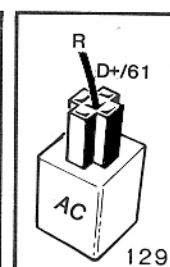
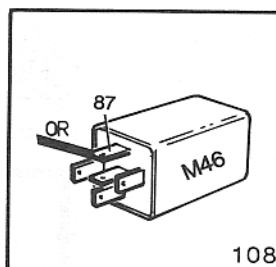
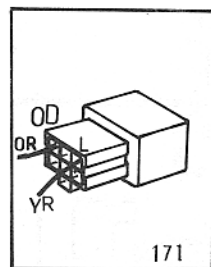
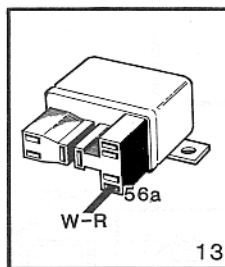
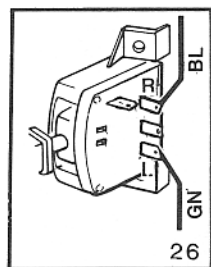
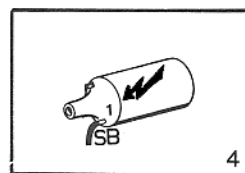
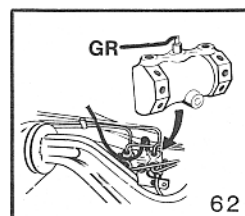
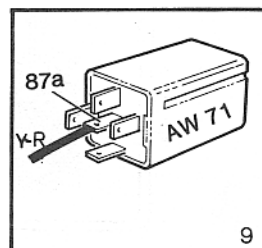
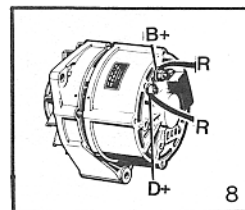
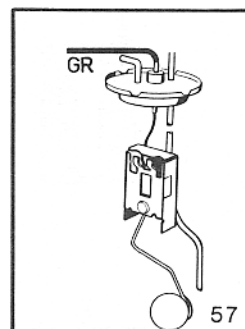
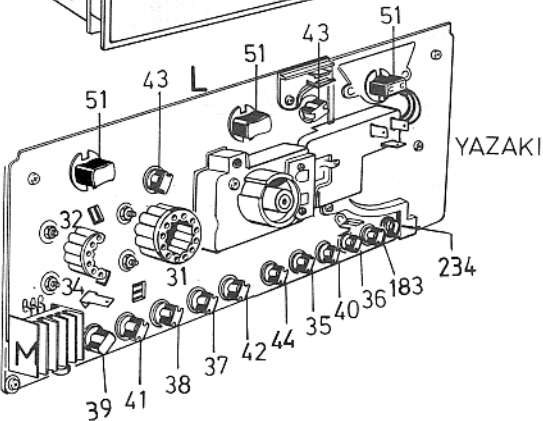
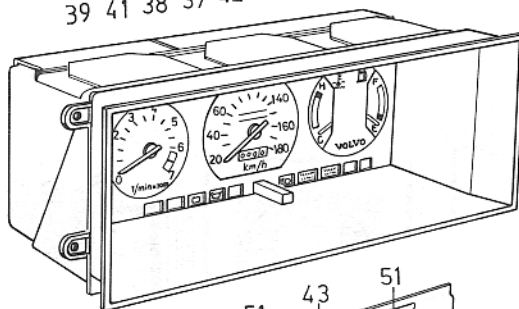
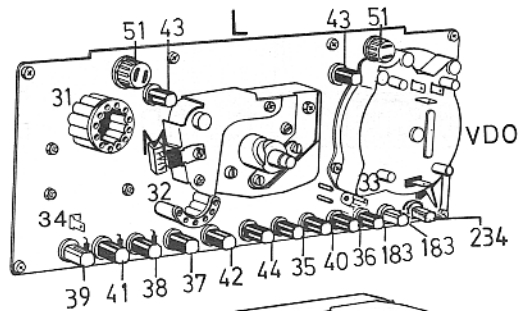
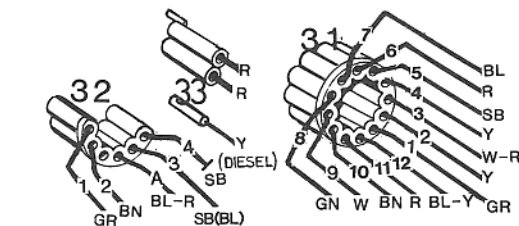
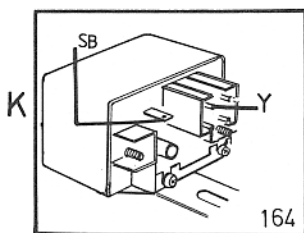
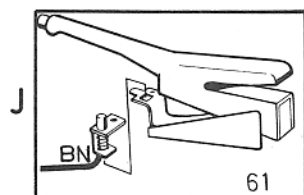
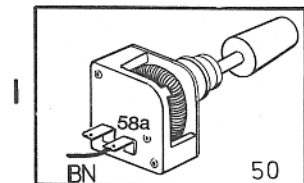
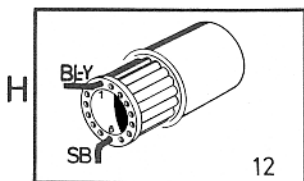
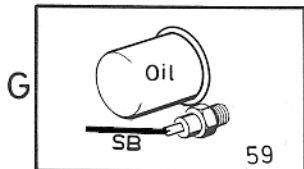
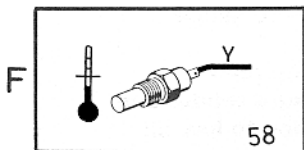
- A Fuel level sender
- B Alternator
- C Overdrive relay AW71
- D Brake failure light contact
- E Ignition coil
- F Temperature sensor
- G Oil pressure sensor
- H Bulb failure warning sensor
- I Rheostat for instrument lights
- J Parking brake switch
- K Control unit, diesel
- L Combined instrument
- M Voltage regulator
- N Direction indicator switch
- O Step relay for main/dipped beams
- P Shift indicator control unit
- R Overdrive relay, M46
- S Air conditioning relay

Fuse No. 13

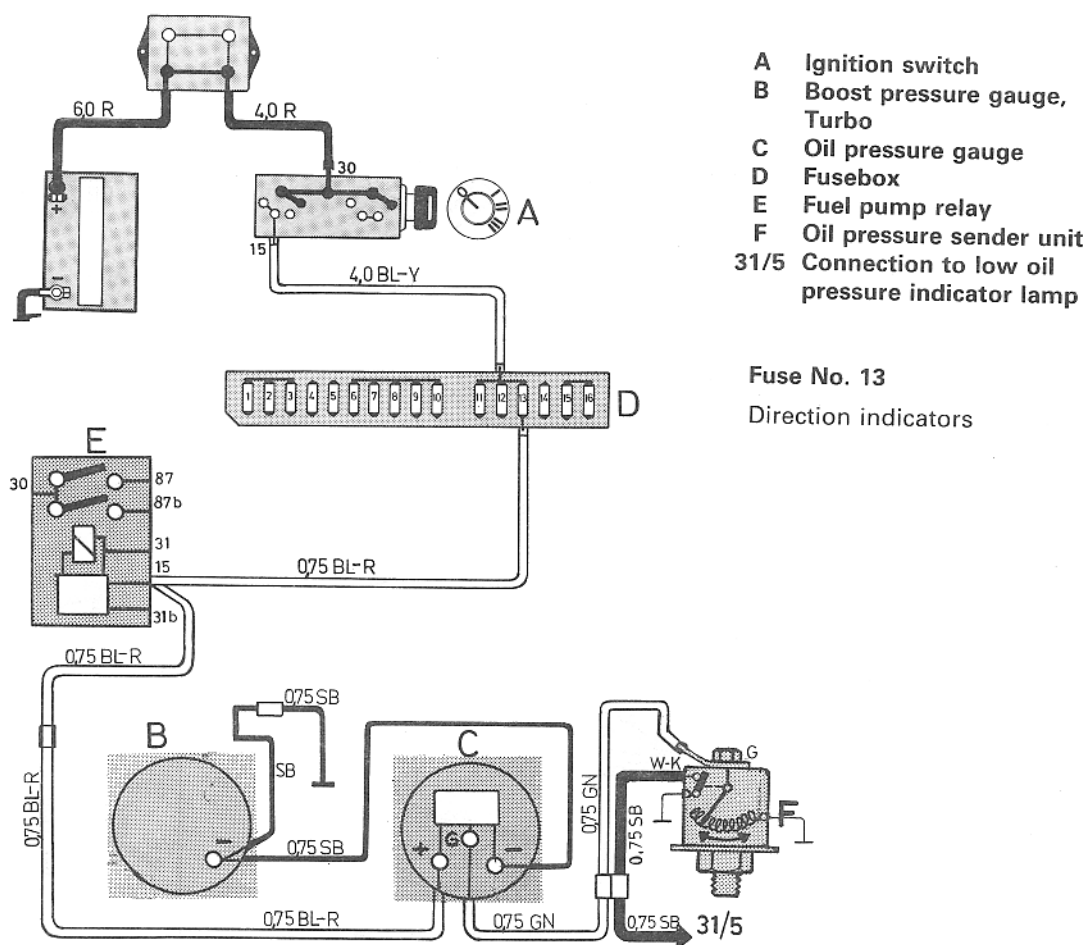
Direction indicators

Ignition ON engine not running

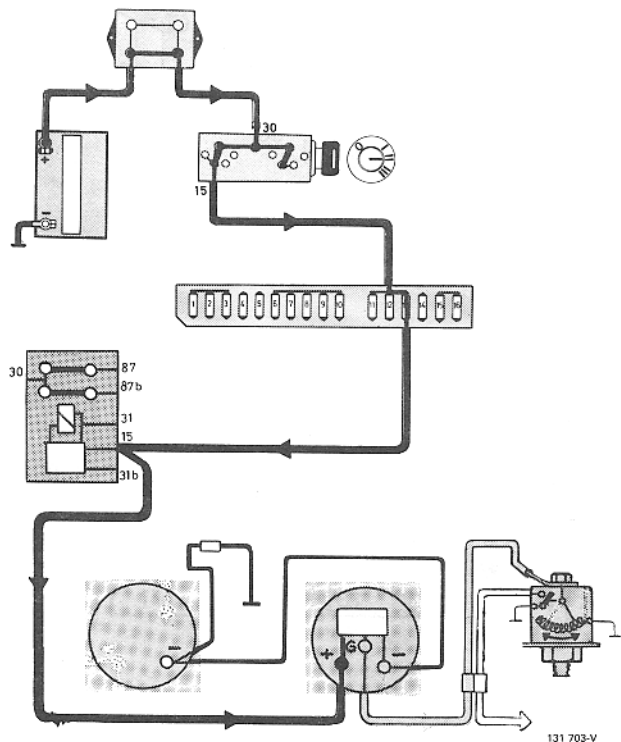
Combined instrument



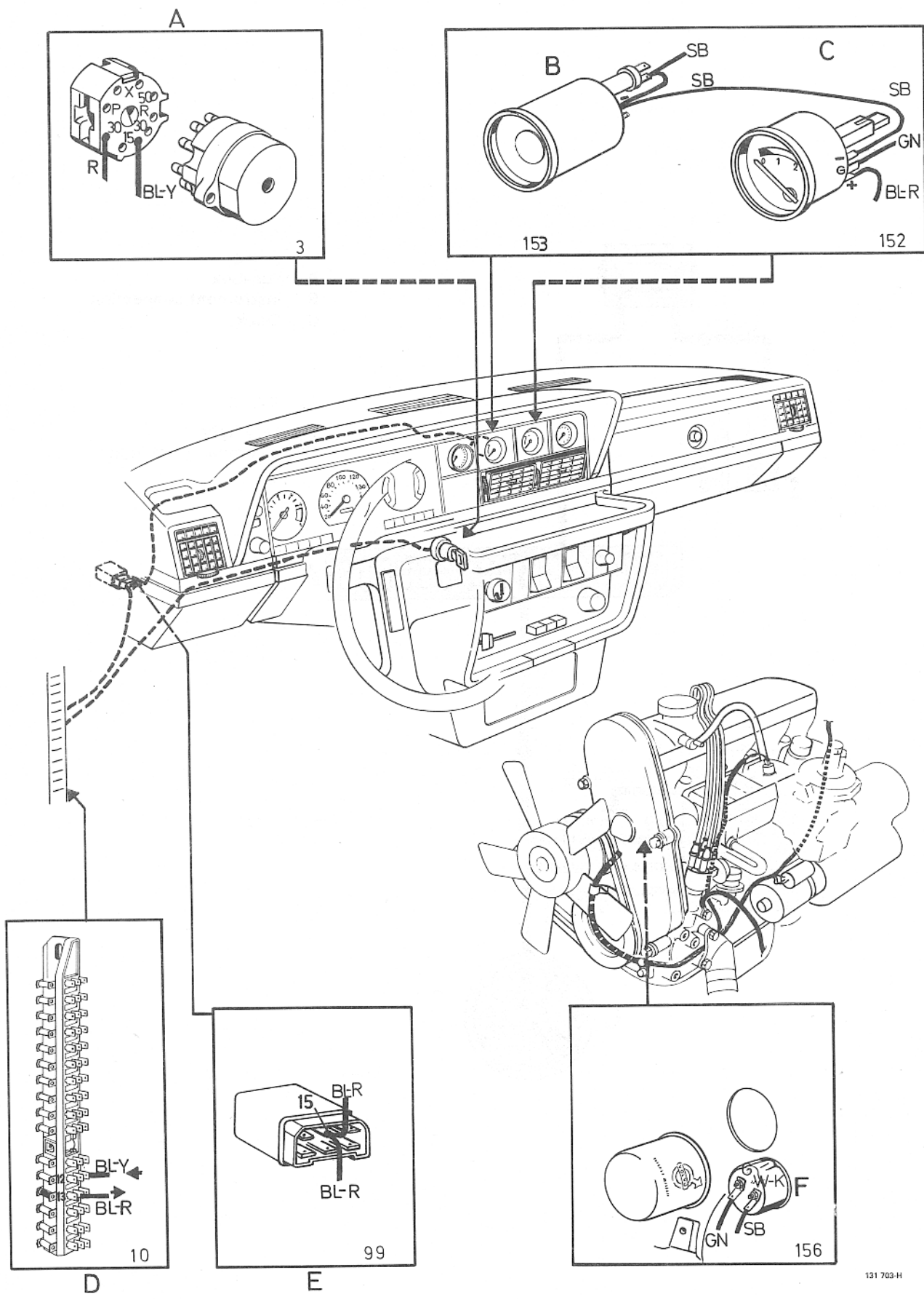
Oil pressure sensor



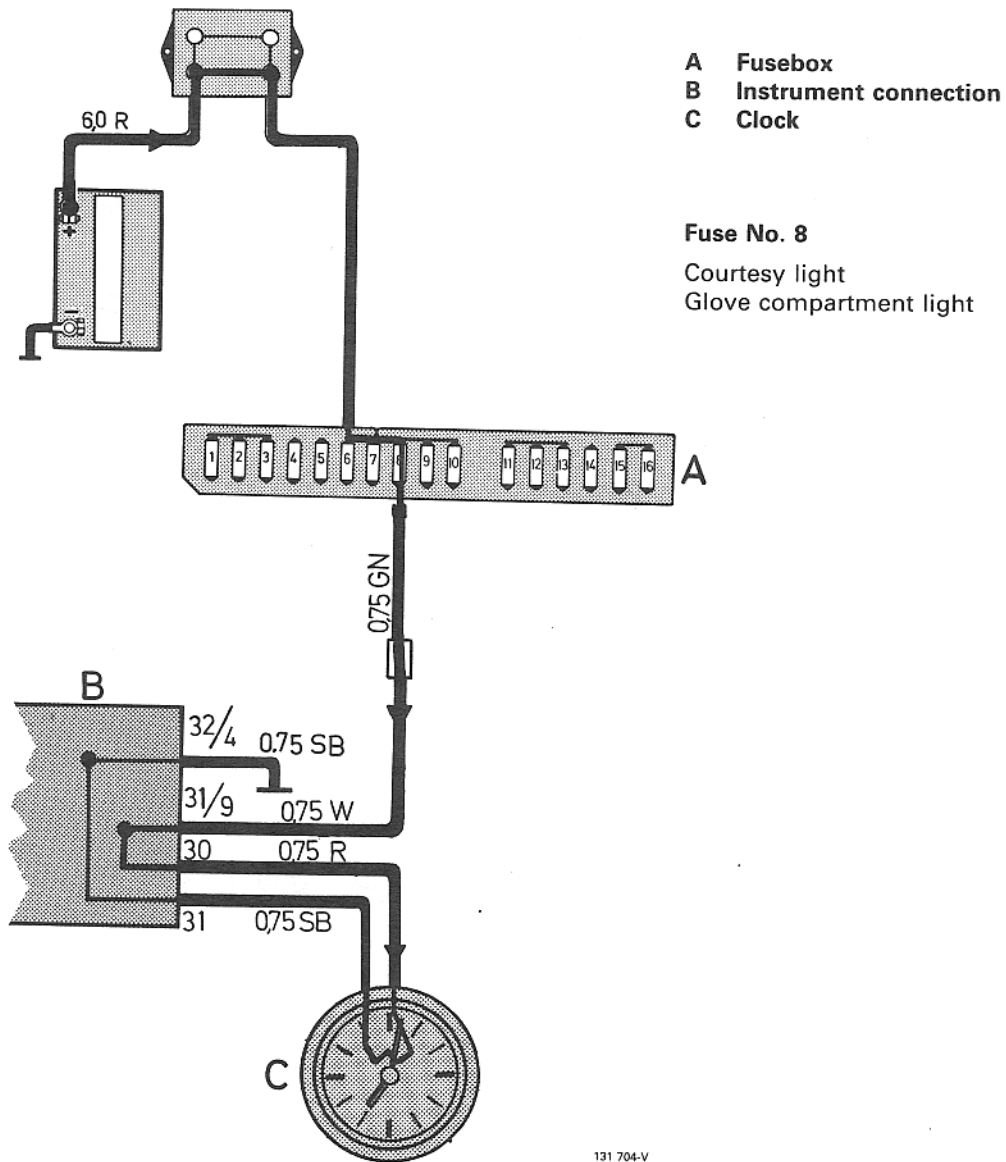
Ignition ON
Gauge shows oil pressure of system



Oil pressure sensor

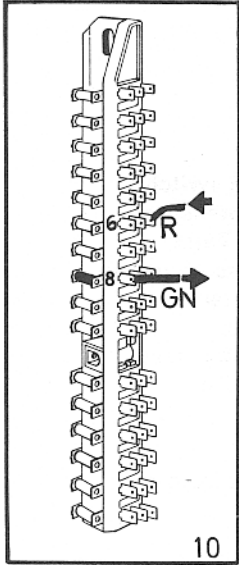


Clock

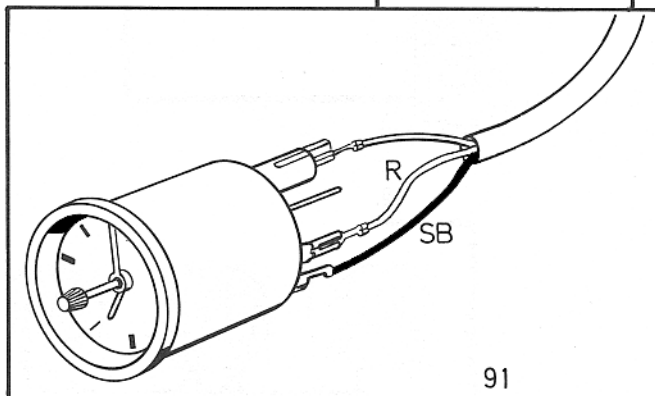
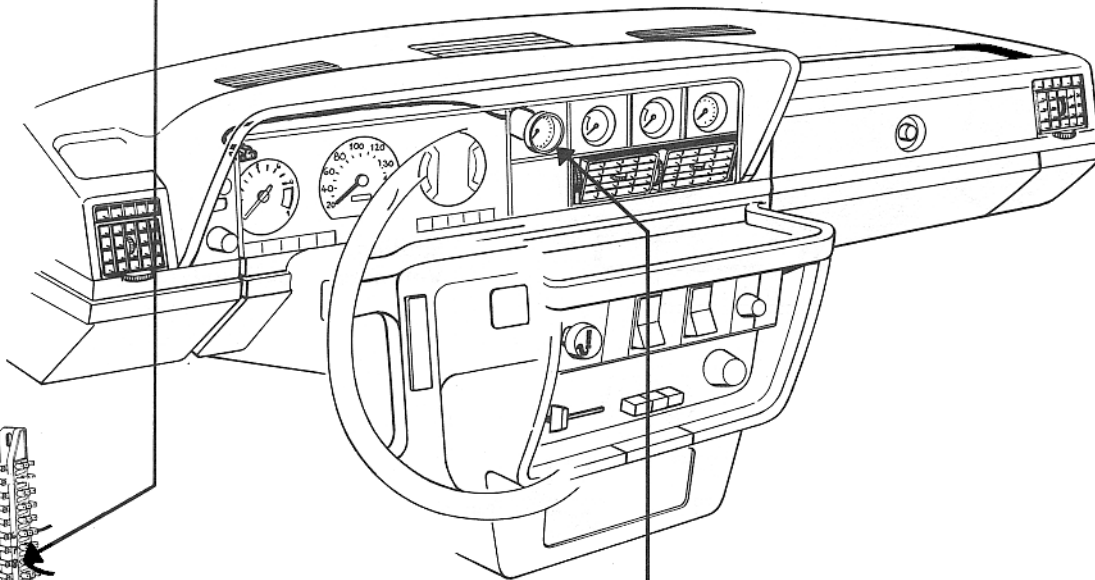
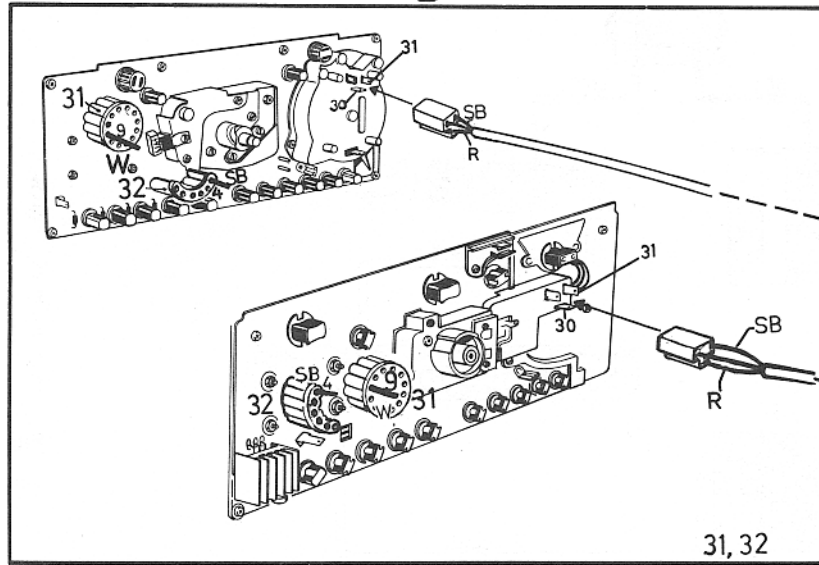


Clock

A



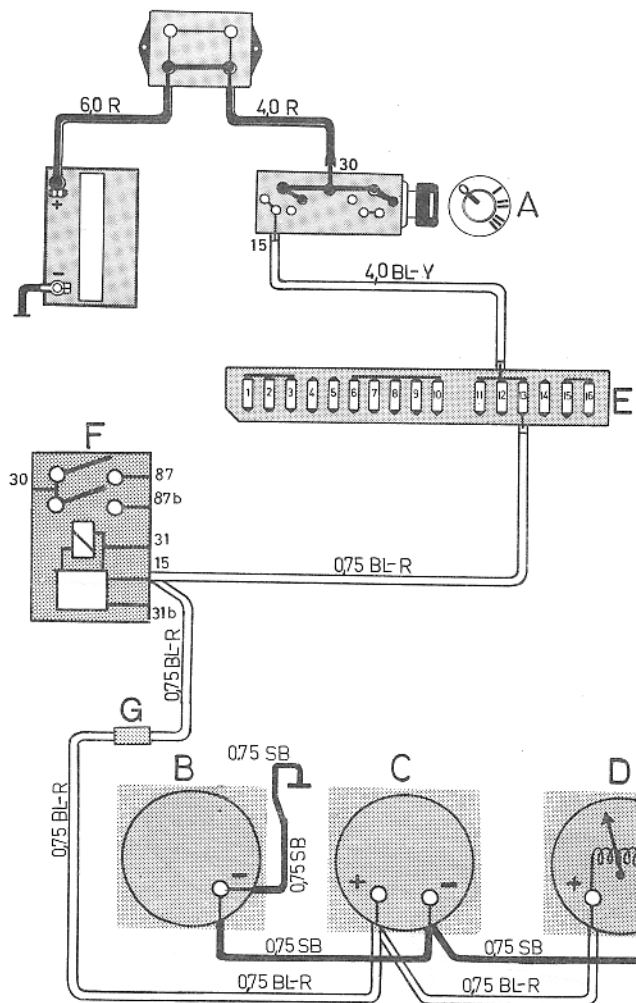
B



C

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Voltmeter

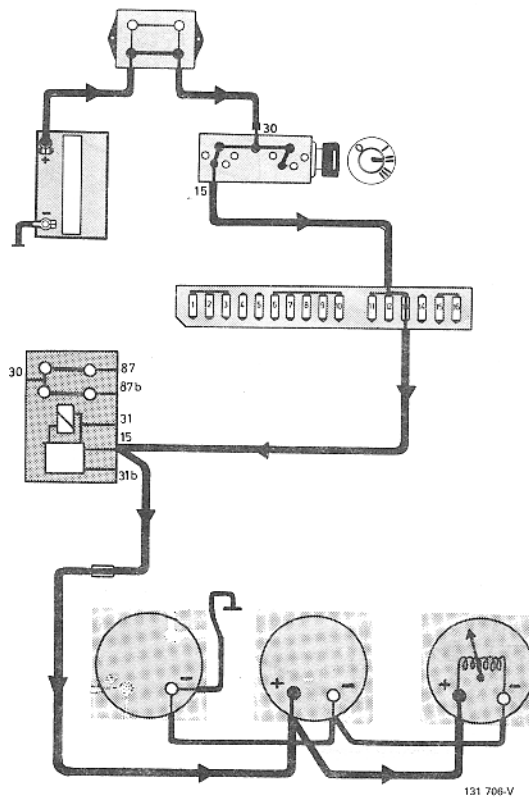


- A Ignition switch
- B Boost pressure gauge, Turbo
- C Oil pressure gauge
- D Voltmeter
- E Fusebox
- F Fuel pump relay
- G Connector

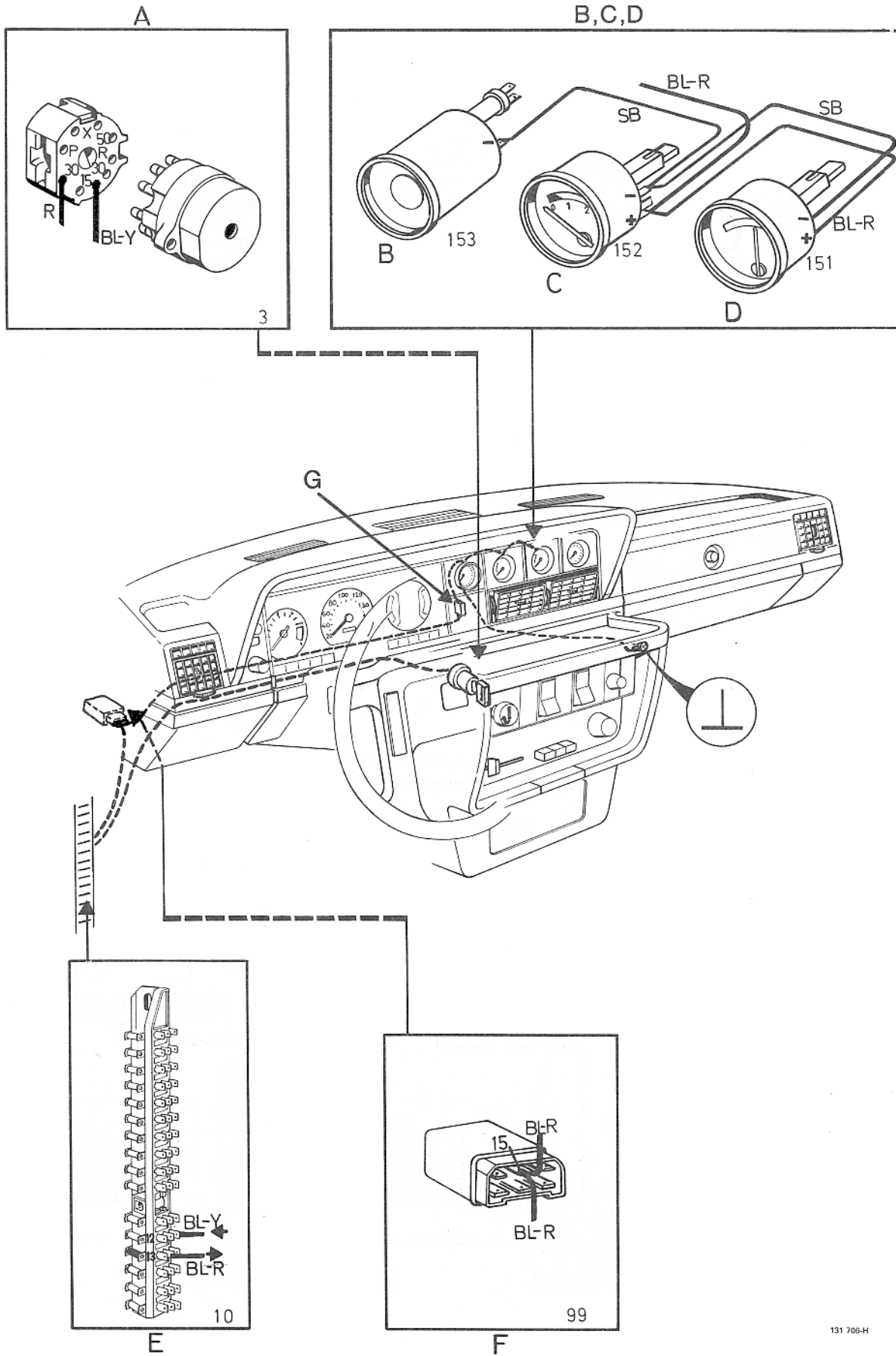
Fuse No. 13

Direction indicators

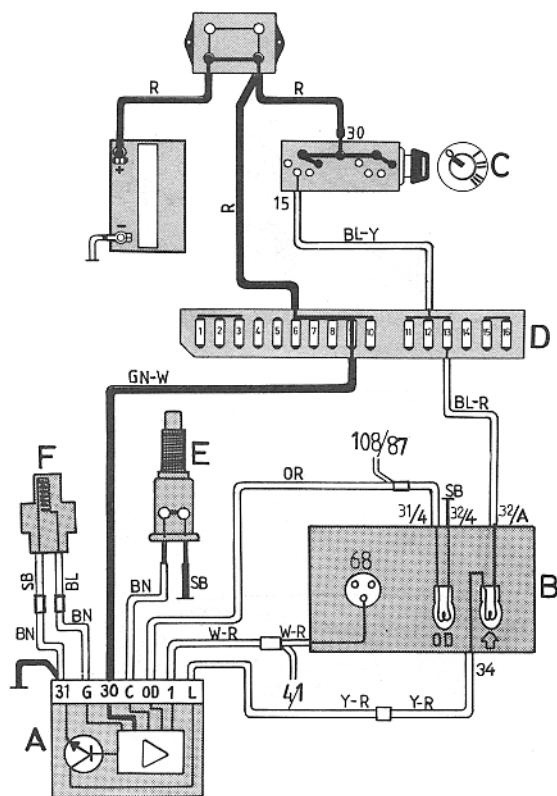
Ignition ON
Voltmeter shows voltage of system



Voltmeter



Gear shift indicator



- A Control unit
- B Indicator light
- C Ignition switch
- D Fusebox
- E Clutch switch
- F Speedometer
- 68 Tachometer

- 4 Ignition coil
- 108 Overdrive relay

Fuse No. 9

Hazard warning light switch

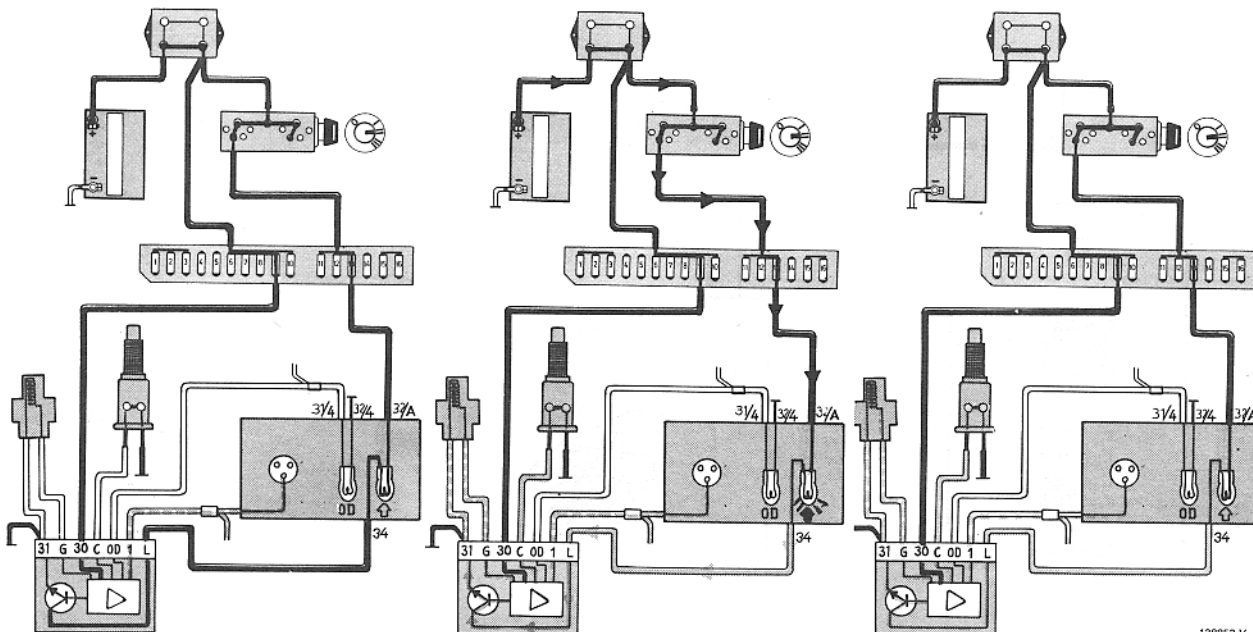
Fuse No. 13

Direction indicators

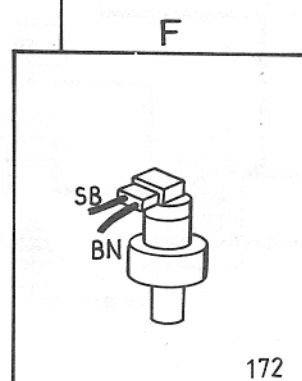
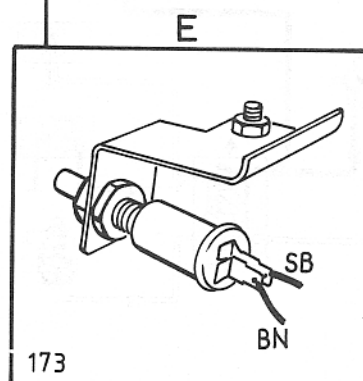
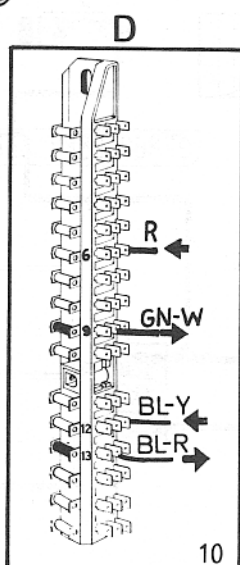
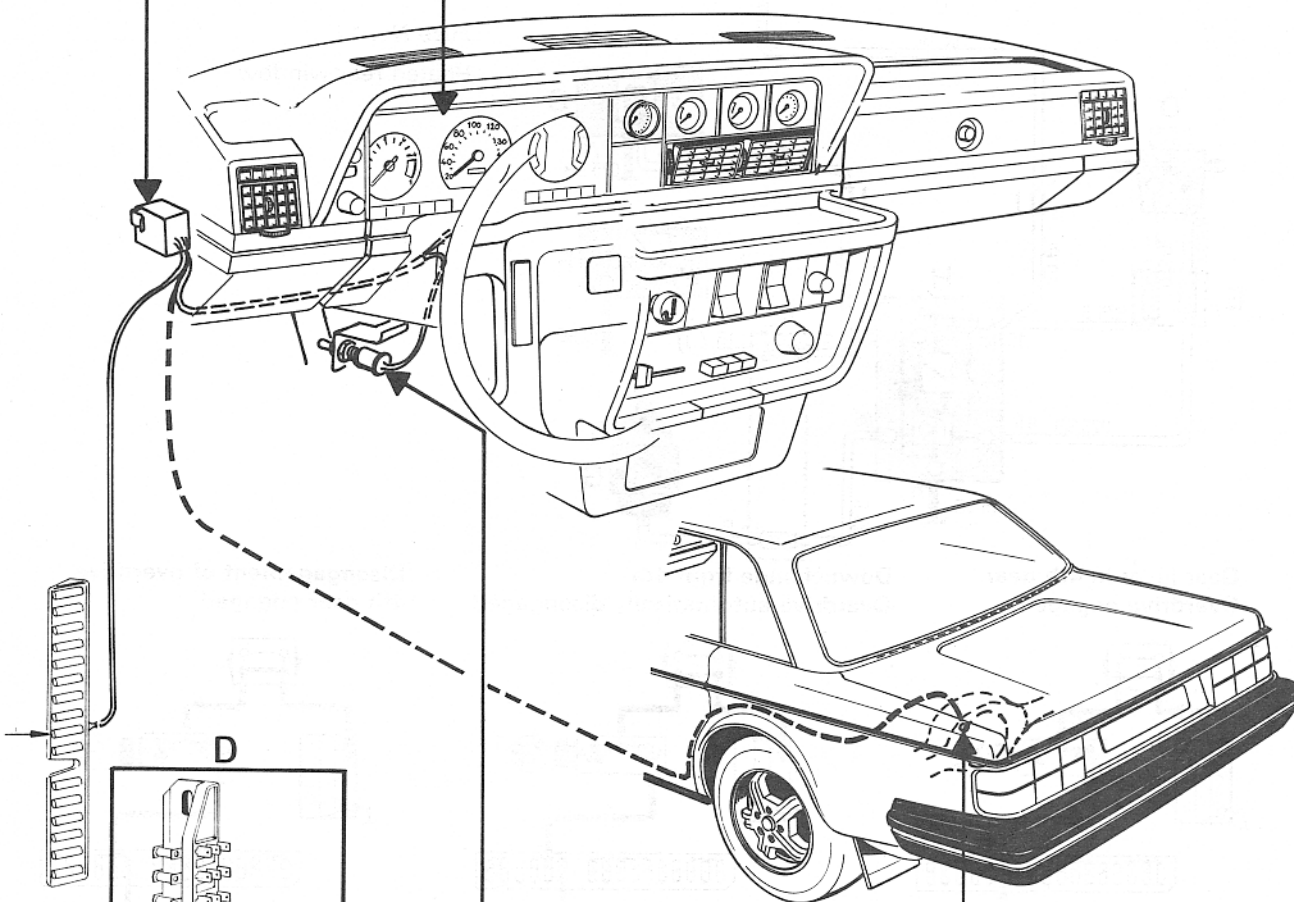
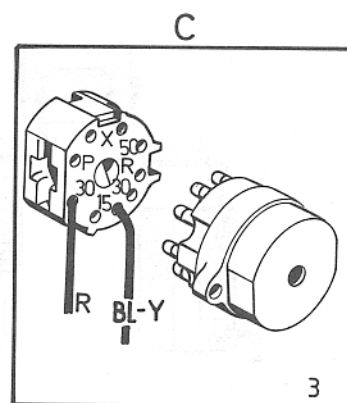
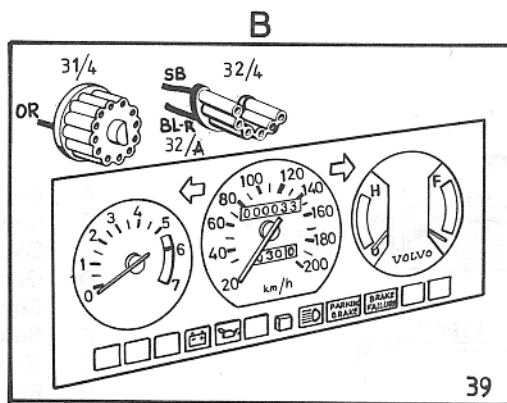
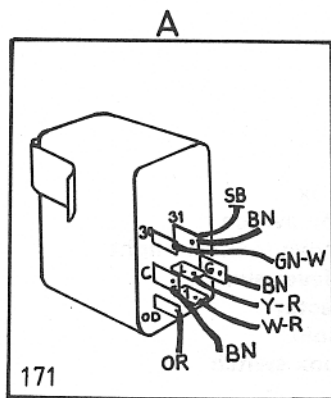
Engine running
Vehicle stationary

Vehicle driven in too low a gear
Indicator light comes on

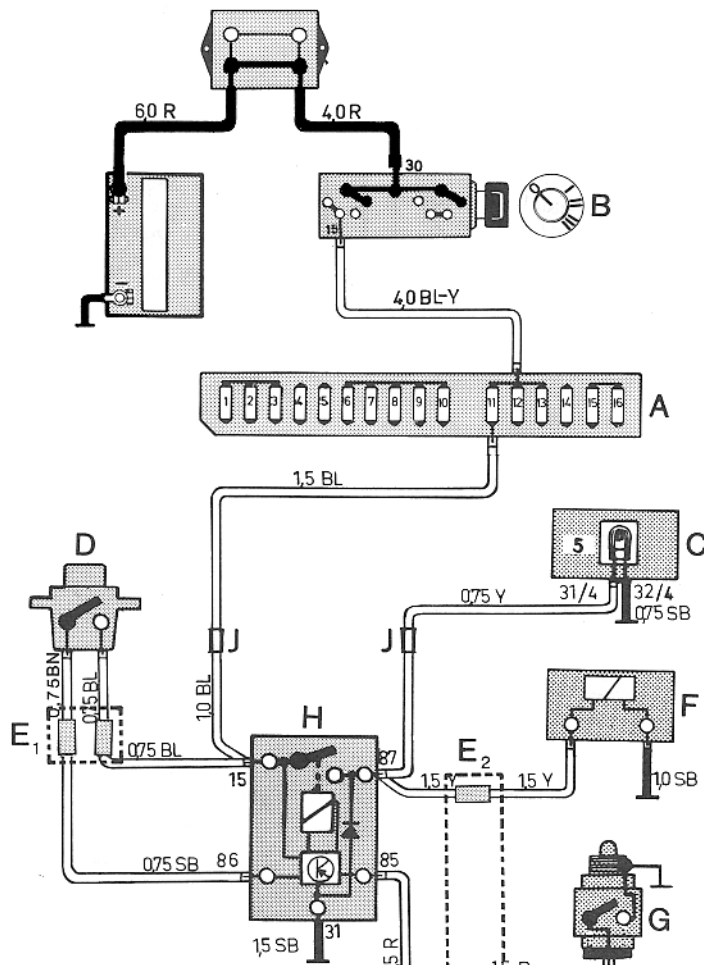
Vehicle driven in correct gear
Indicator light goes out



Gear shift indicator



Overdrive, manual gearbox



- A Fusebox
- B Ignition switch
- C Overdrive indicator light
- D Gear lever switch
- E Connector
- F Solenoid
- G Gearbox switch
- H Relay
- J Connector

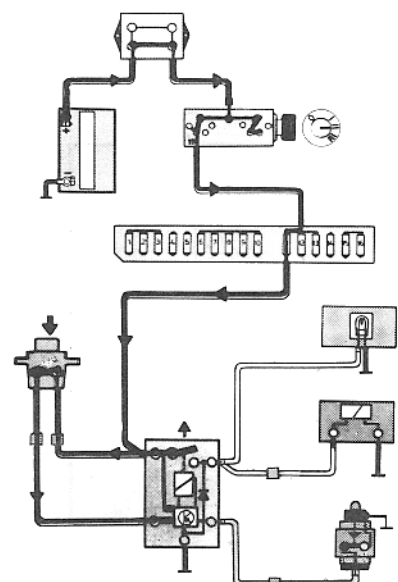
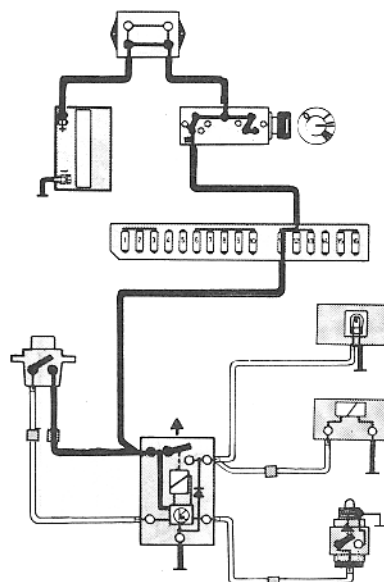
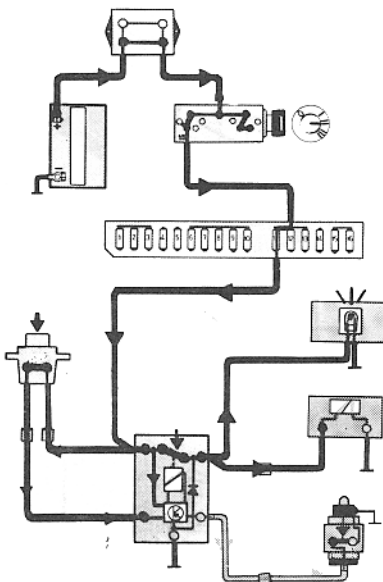
Fuse No. 11

Heated rear window

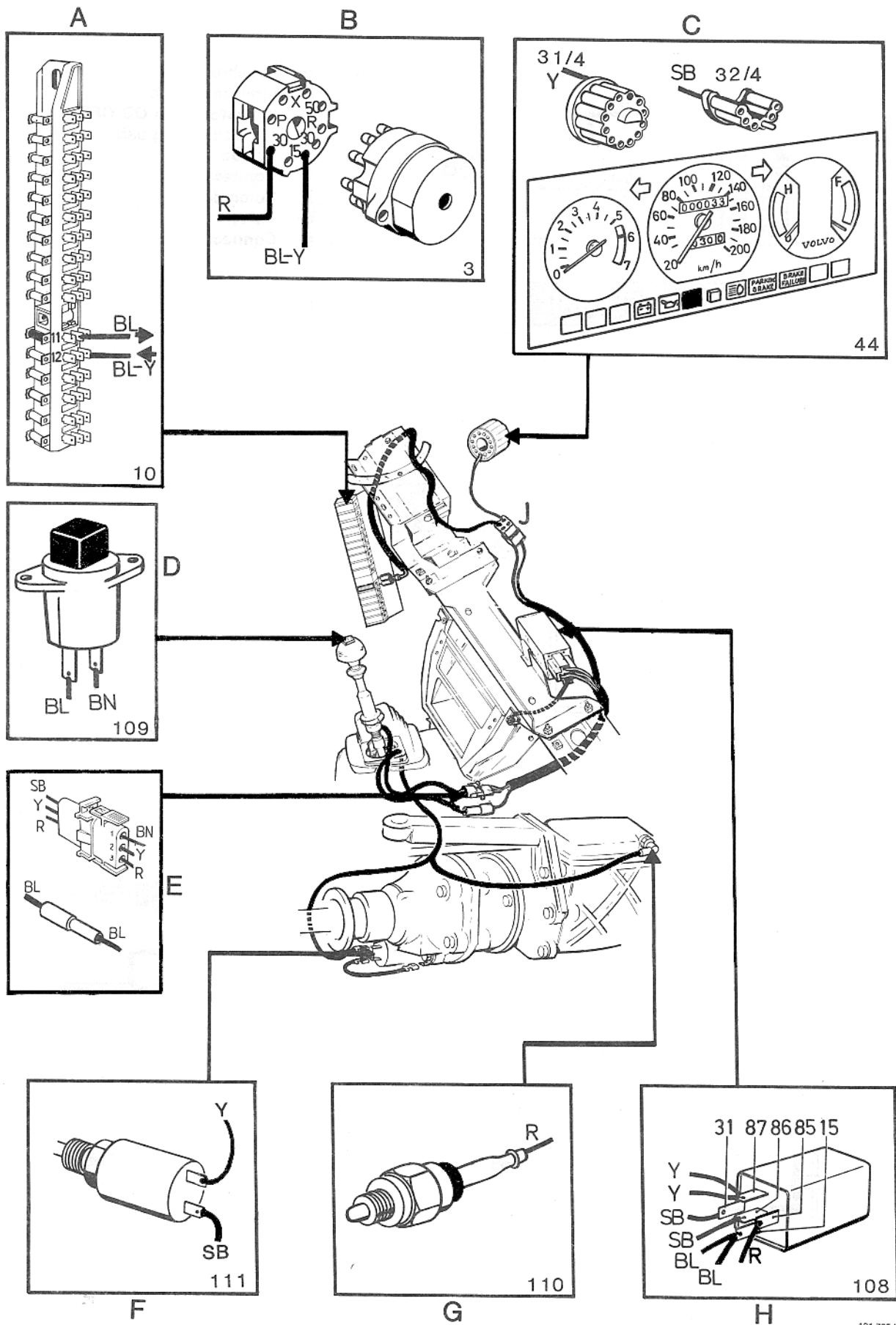
Gear lever in 4th gear
Overdrive engaged

Downchange from 4th
Overdrive automatically disengaged

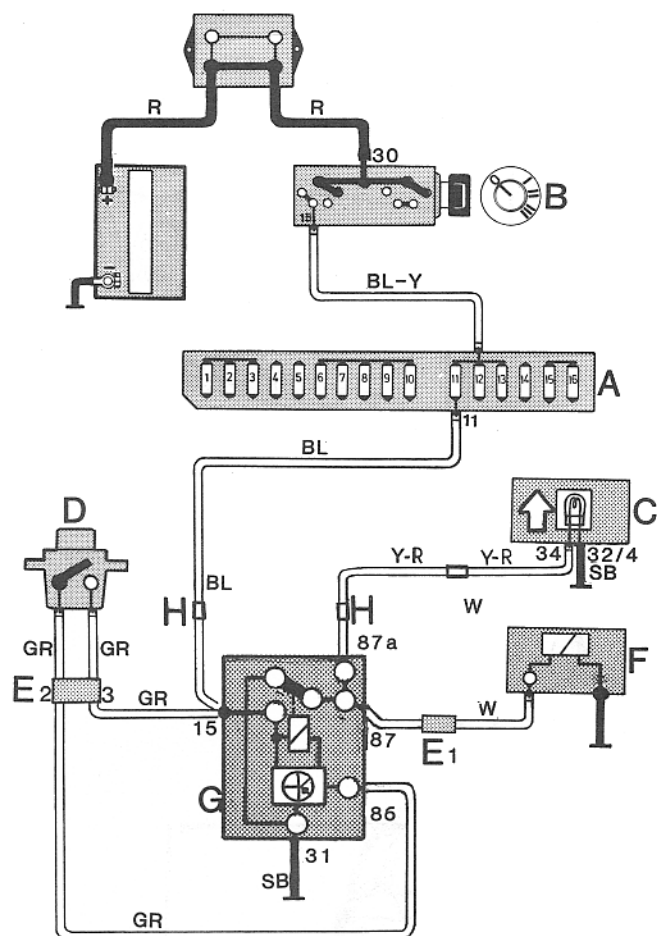
Disengagement of overdrive
4th gear engaged



Overdrive, manual gearbox



Overdrive, automatic transmission

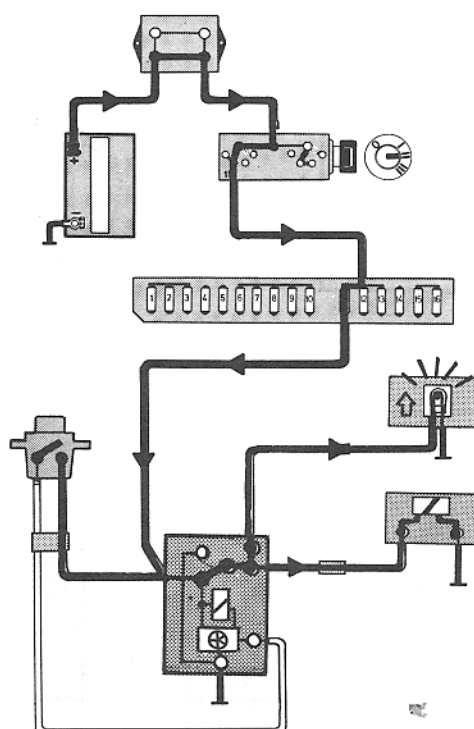
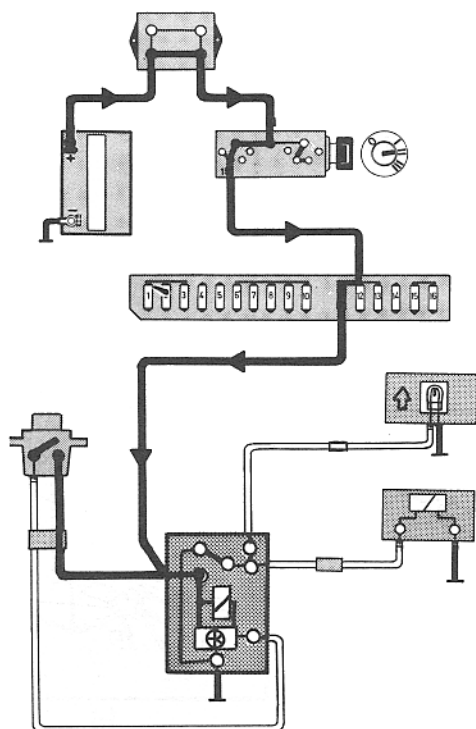


- A Fusebox
- B Ignition switch
- C Indicator lamp OD OFF
- D Gear selector push button
- E Connector
- F Solenoid
- G Relay
- H Connector

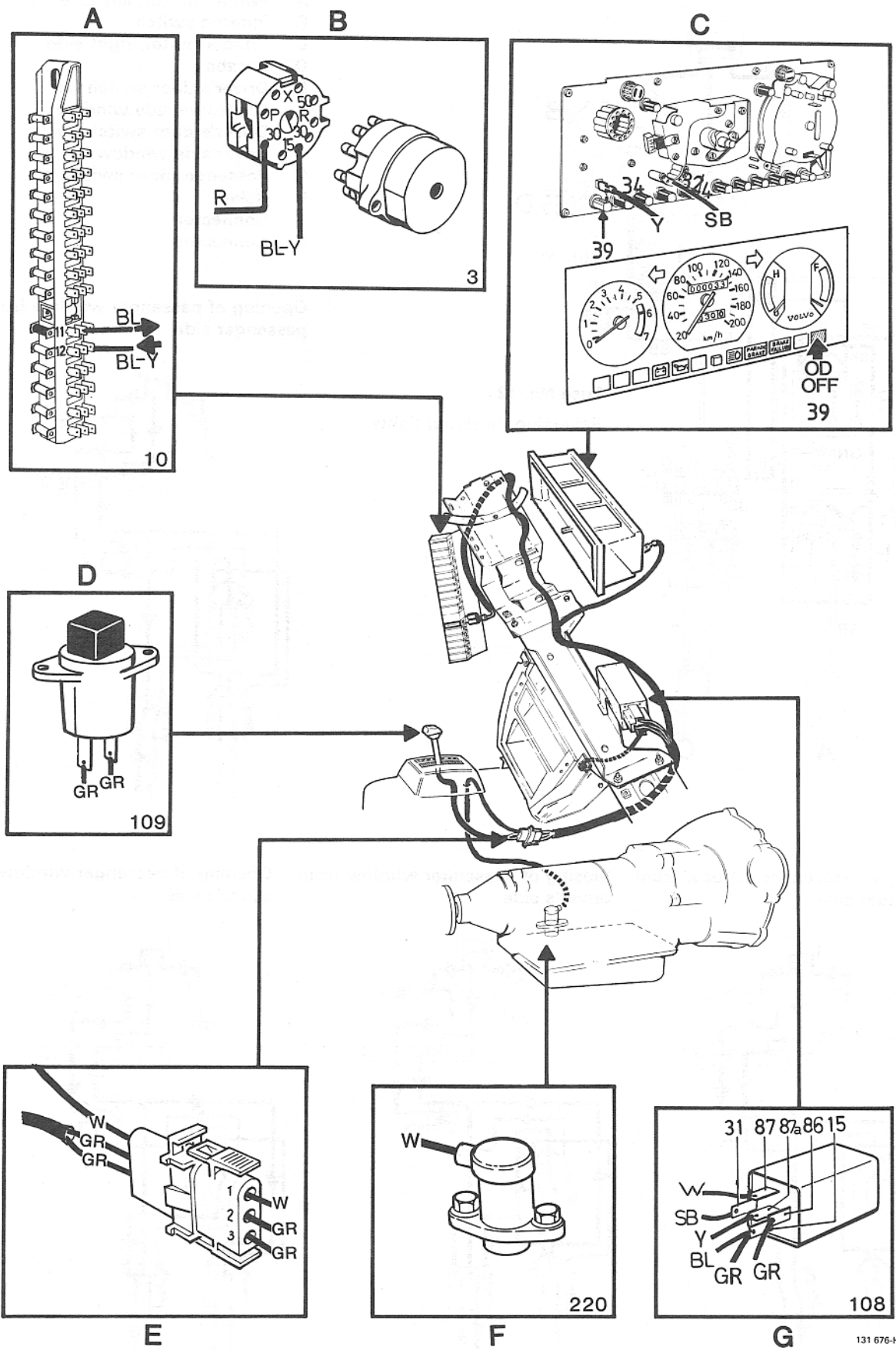
Fuse No. 11
Heated rear window

Overdrive engaged
Indicator lamp OFF

Overdrive disengaged
Indicator lamp ON

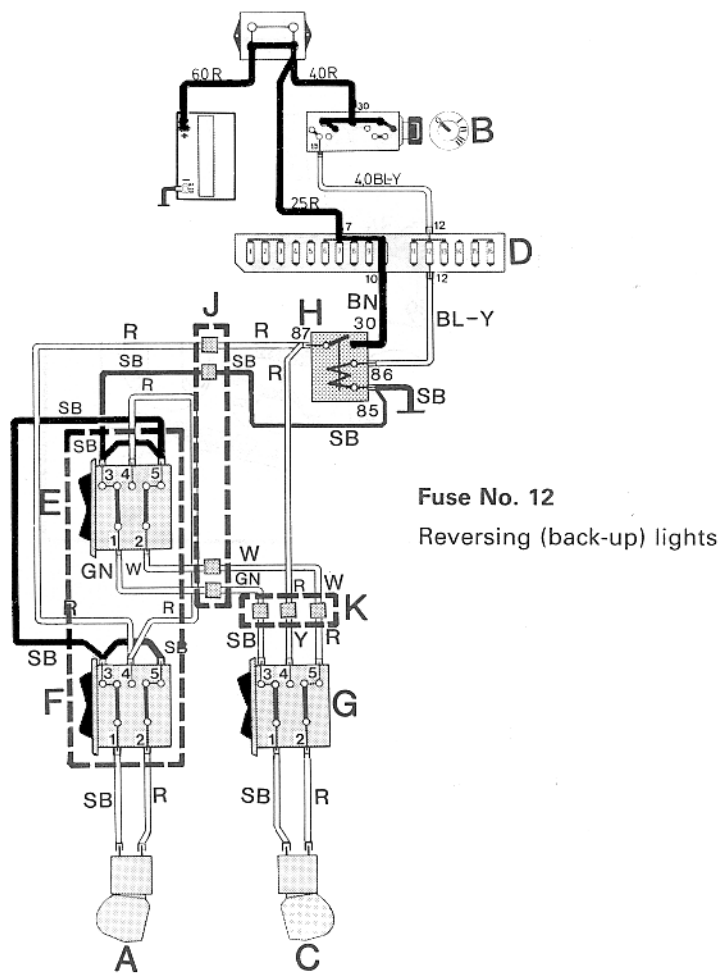


Overdrive, automatic transmission

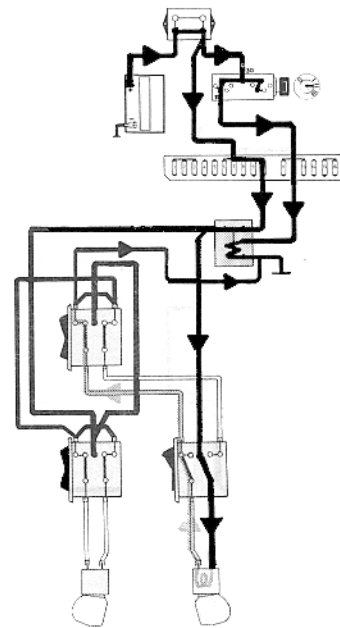


Electric windows, 2-door models

- A Winder motor, left side
- B Ignition switch
- C Winder motor, right side
- D Fusebox
- E Driver's door switch for passenger side window
- F Driver's door switch for driver side window
- G Passenger door switch
- H Relay
- J Connector
- K Connector



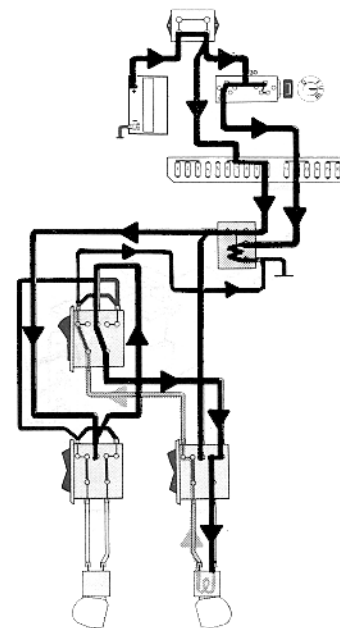
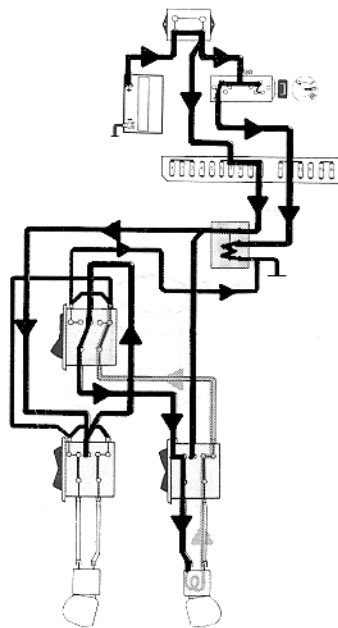
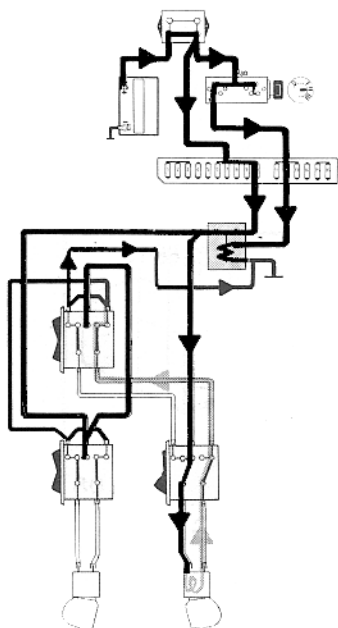
Opening of passenger window from passenger side



Closing of passenger window from passenger side

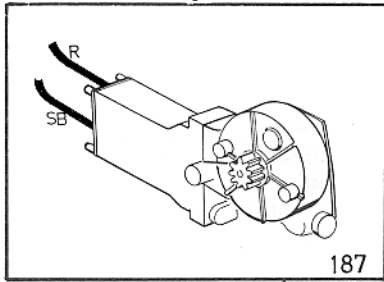
Closing of passenger window from driver's side

Opening of passenger window from driver's side

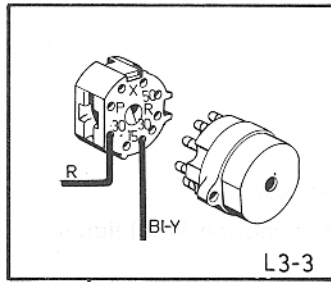


Electric windows, 2-door models

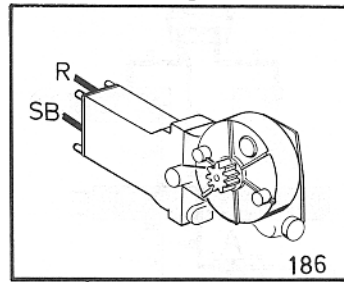
A



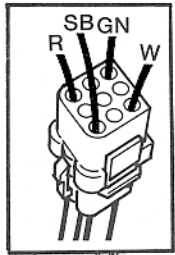
B



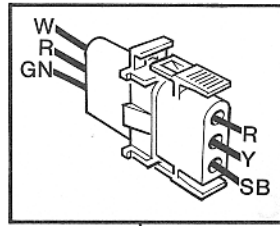
C



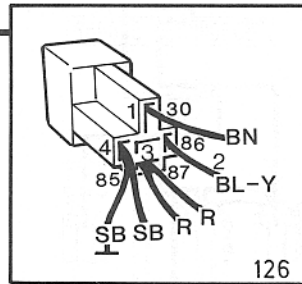
J



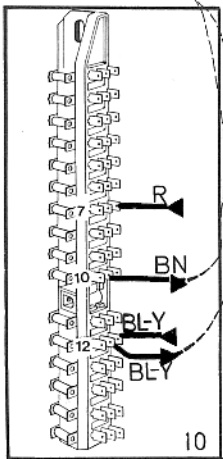
K



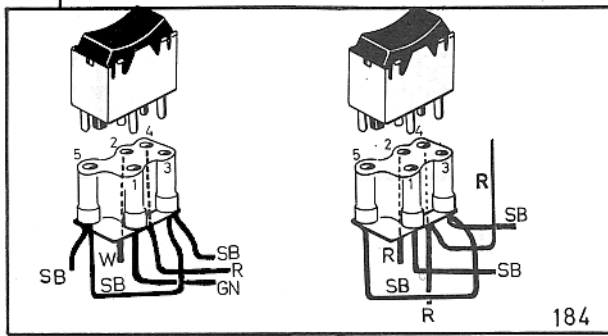
H



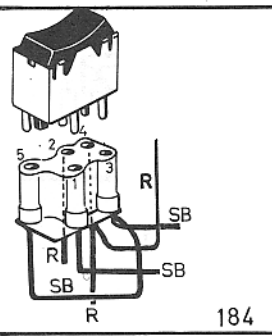
D



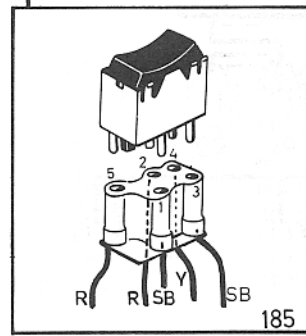
E



F



G

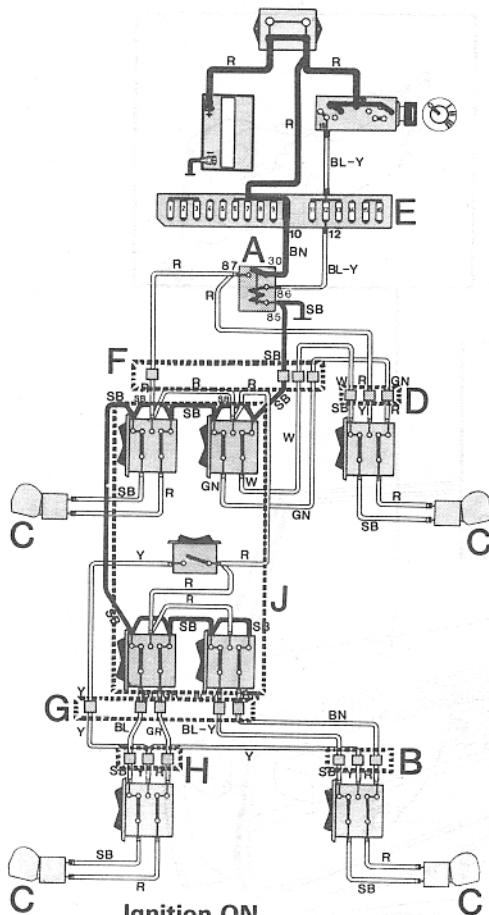


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Electric windows, 4-door models

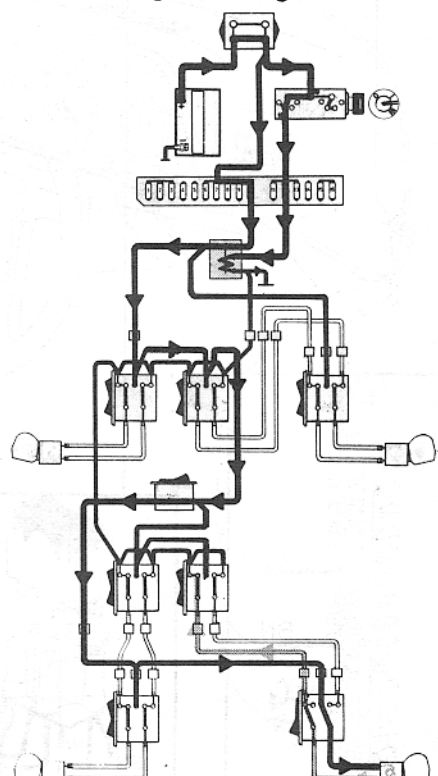
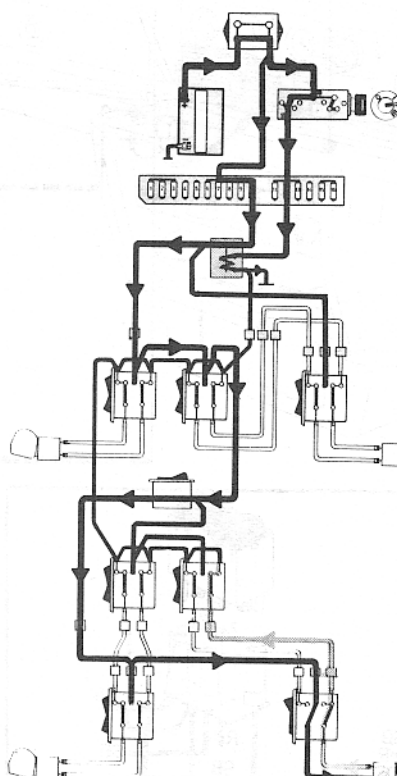
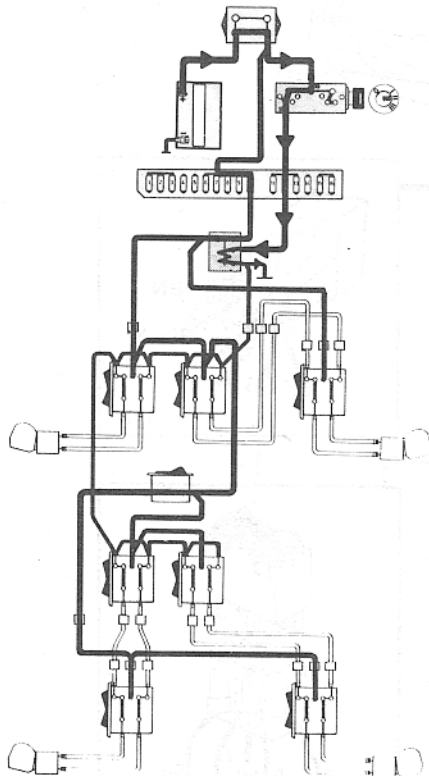
- A Relay
- B Connector
- C Winder motors
- D Connector
- E Fusebox
- F Connector
- G Connector
- H Connector
- J Passenger side switch

Fuse No. 12
Reversing (back-up) lights

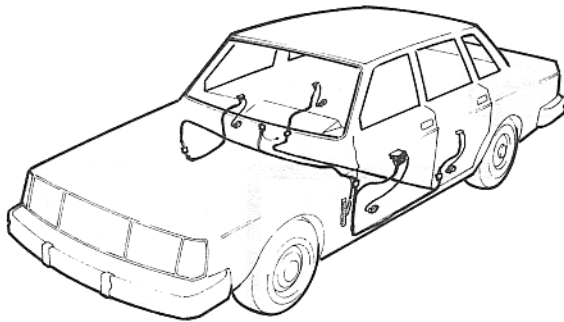


Opening of rear right window

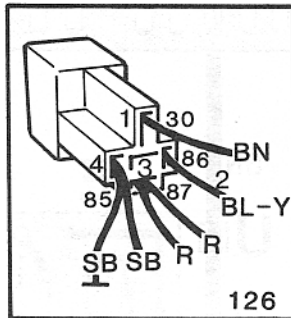
Closing of rear right window



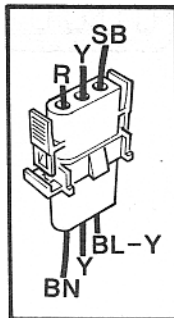
Electric windows, 4-door models



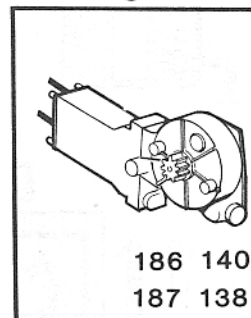
A



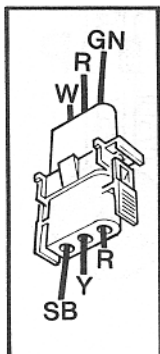
B



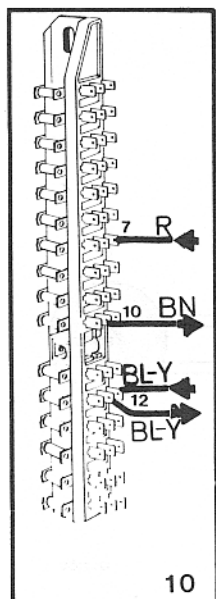
C



D

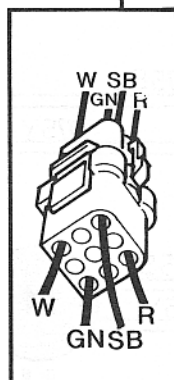


J

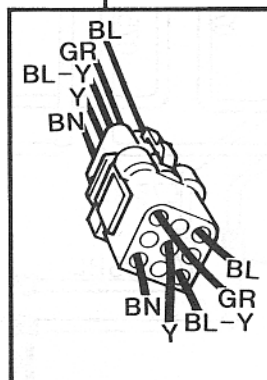


E

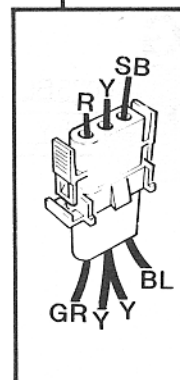
F



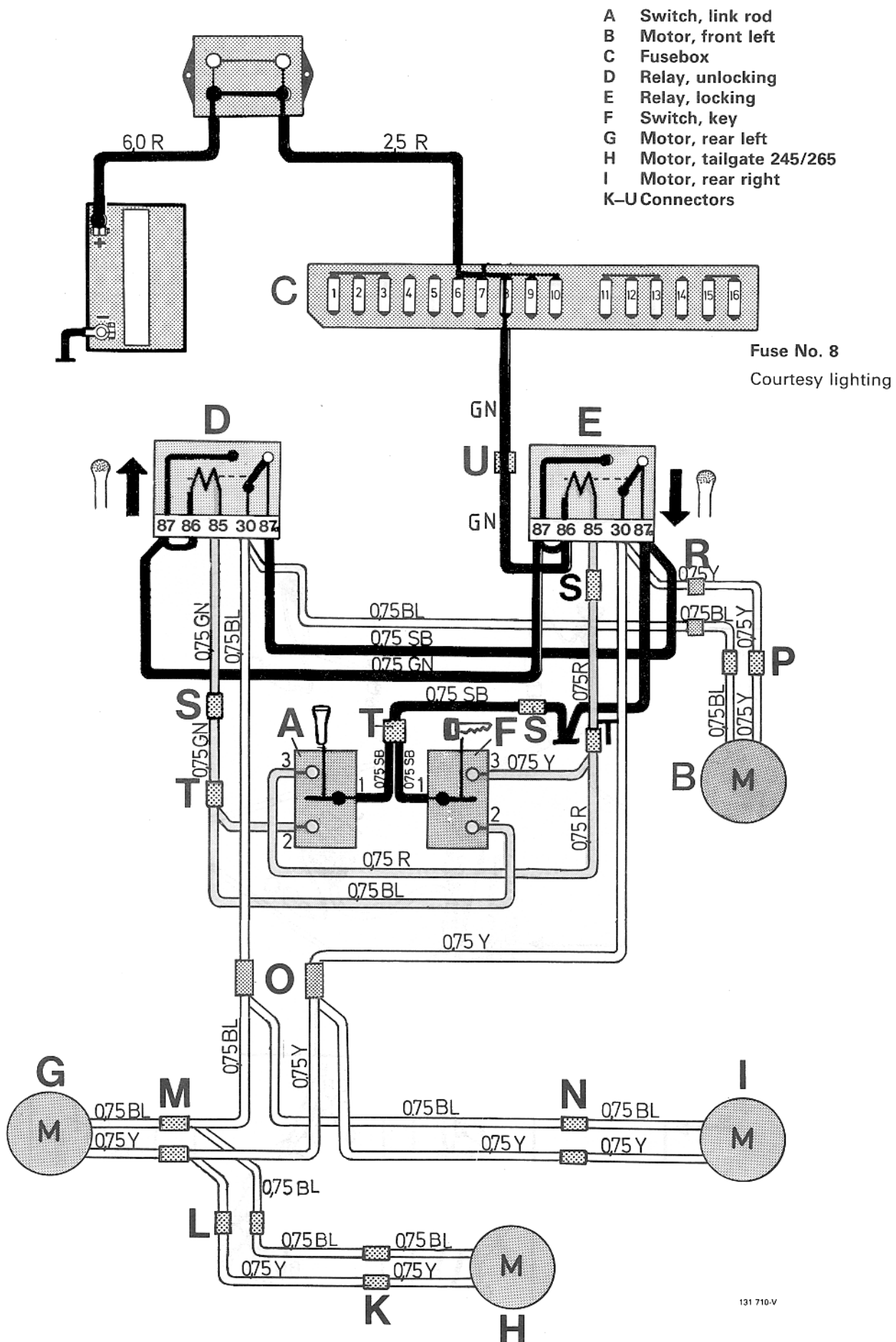
G



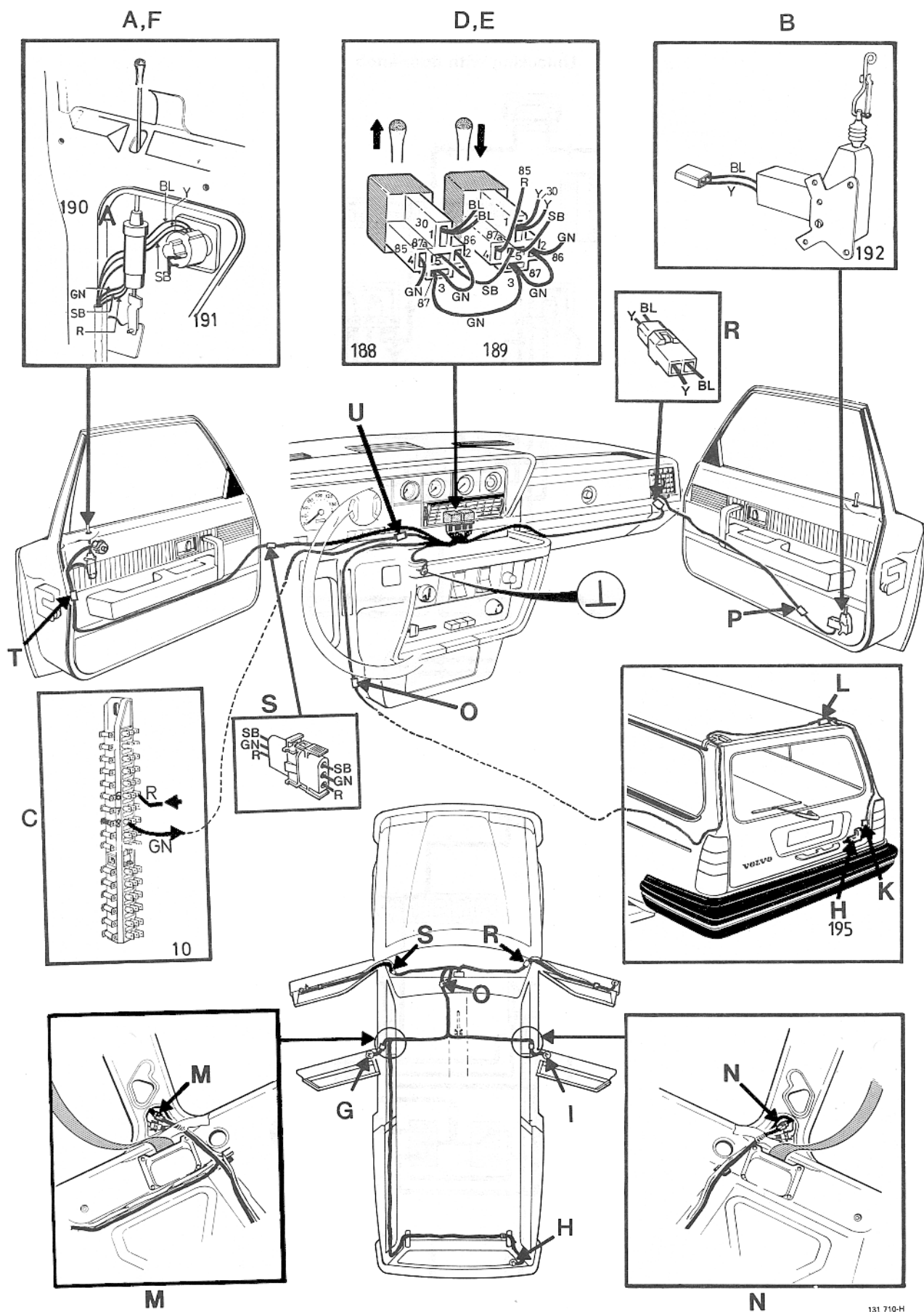
H



Central locking system, 4 & 5-door models

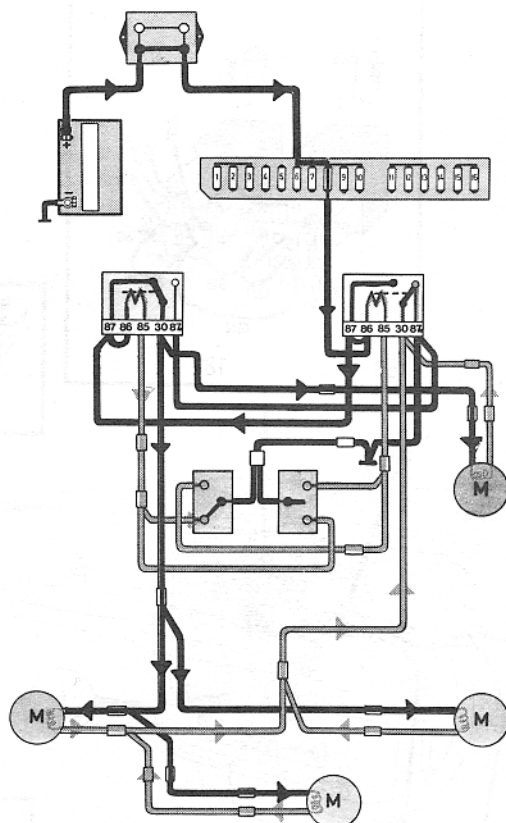


Central locking system, 4 & 5-door models

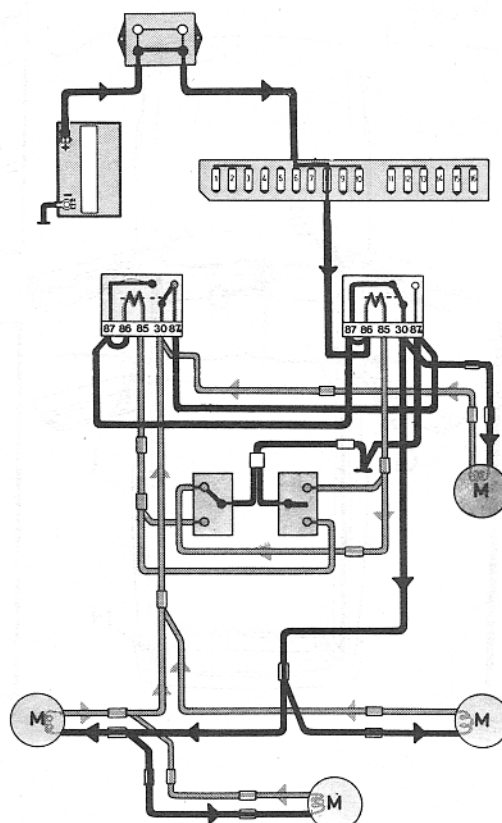


Central locking system, 4 & 5-door models

Unlocking with door-knob

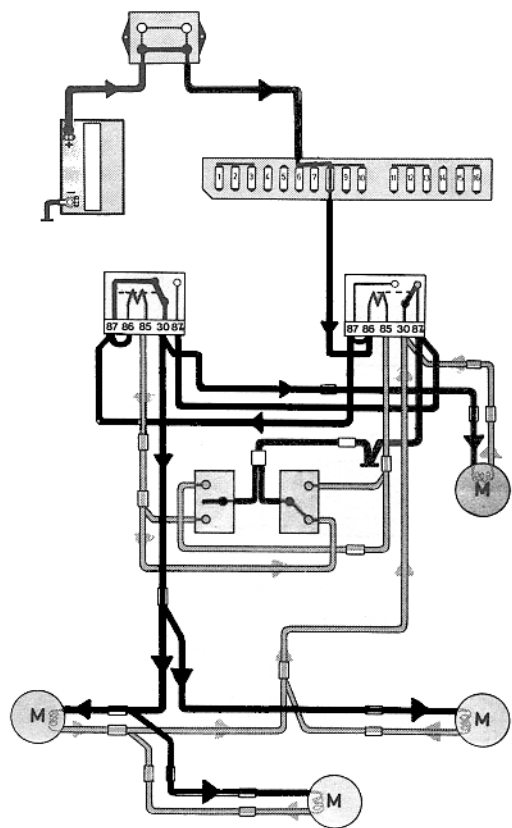


Locking with door-knob

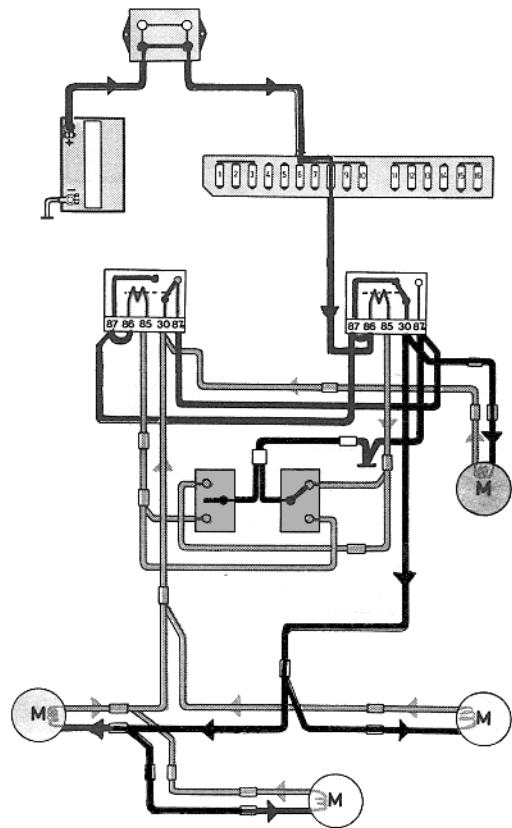


Central locking system, 4 & 5-door models

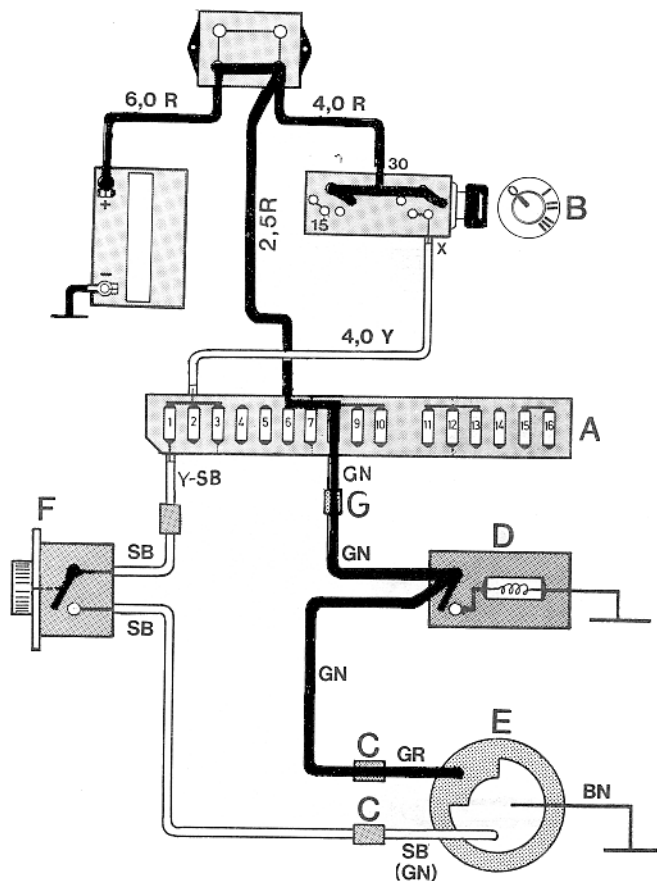
Unlocking with key



Locking with key



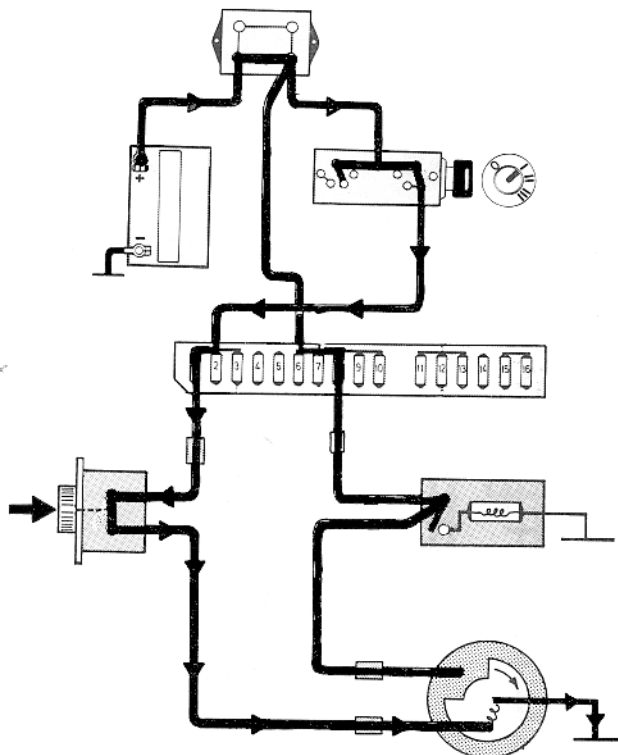
Boot (trunk) release



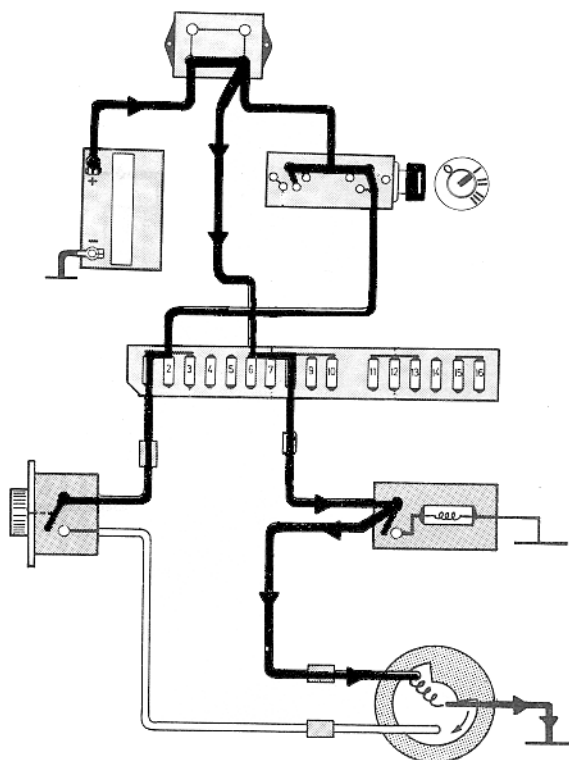
- A Fusebox
- B Ignition switch
- C Connector
- D Boot (trunk) light
- E Motor, boot (trunk) release
- F Switch, boot (trunk) release
- G Connector

Fuse No. 1
Cigar lighter

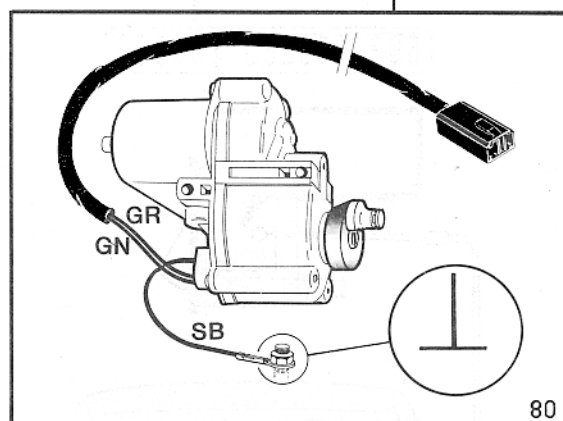
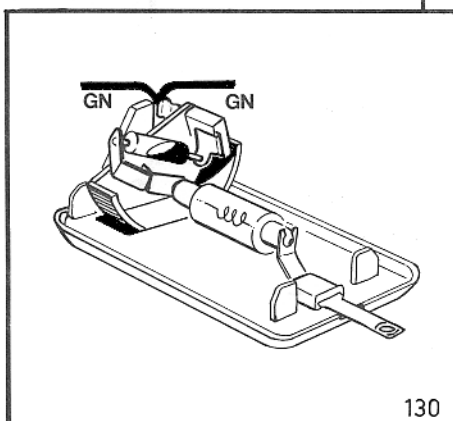
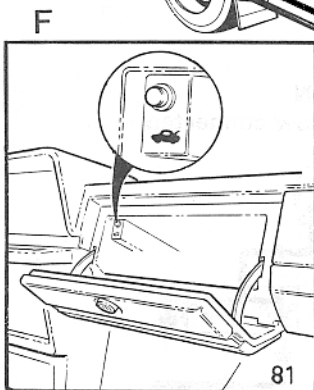
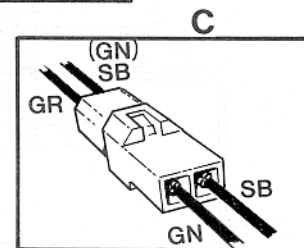
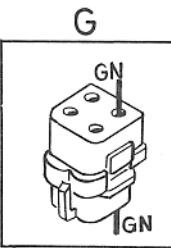
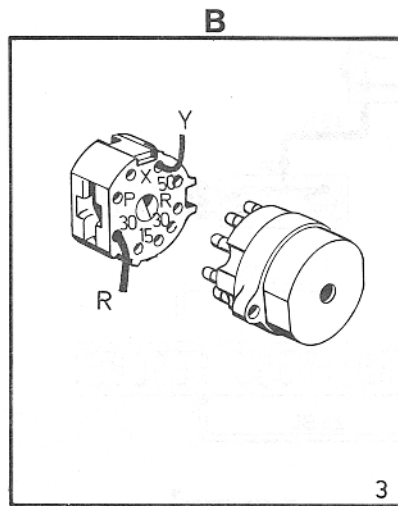
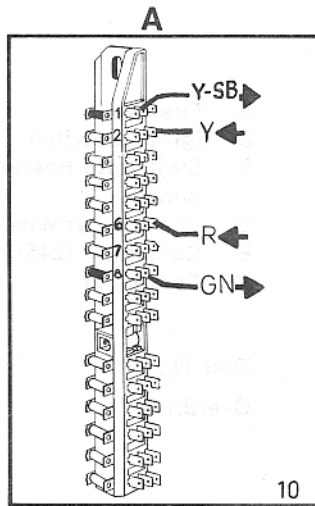
Opening of lid



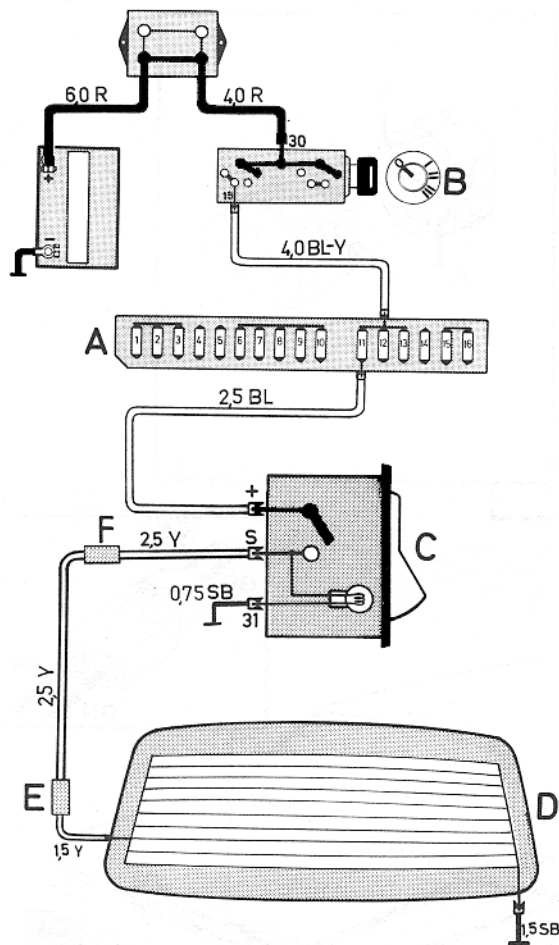
Motor returns to zero position



Boot (trunk) release



Heated rear window

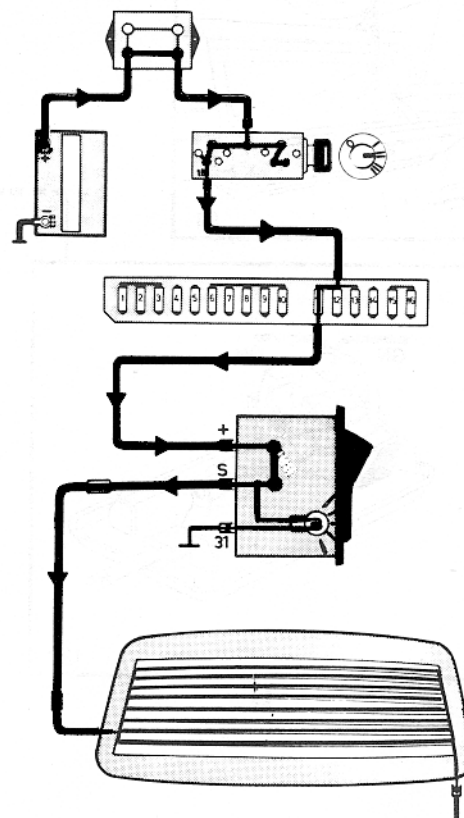
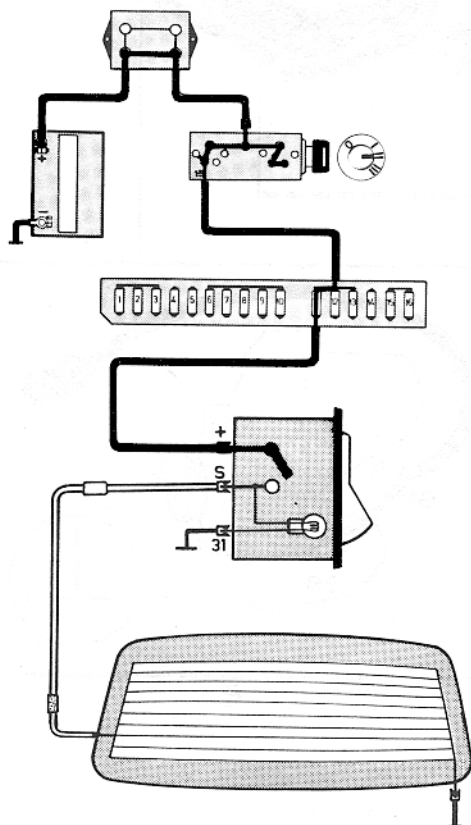


- A Fusebox
- B Ignition switch
- C Switch for heated rear window
- D Heated rear window
- E Connector (245/265)
- F Connector

Fuse No. 11
Overdrive

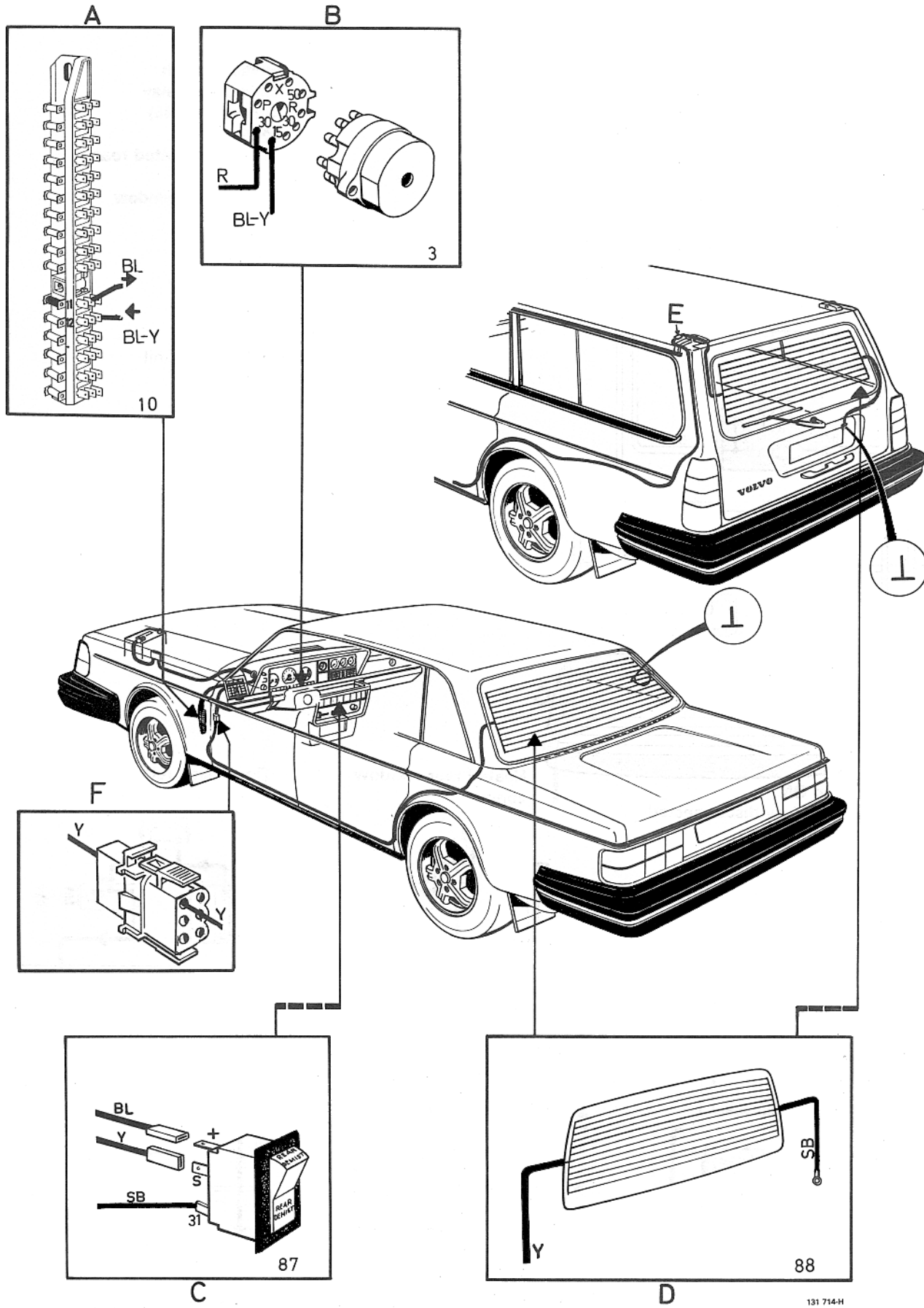
Ignition switch ON
Heated rear window disconnected

Ignition switch ON
Heated rear window connected



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Heated rear window



Heated rear window, USA/Canada

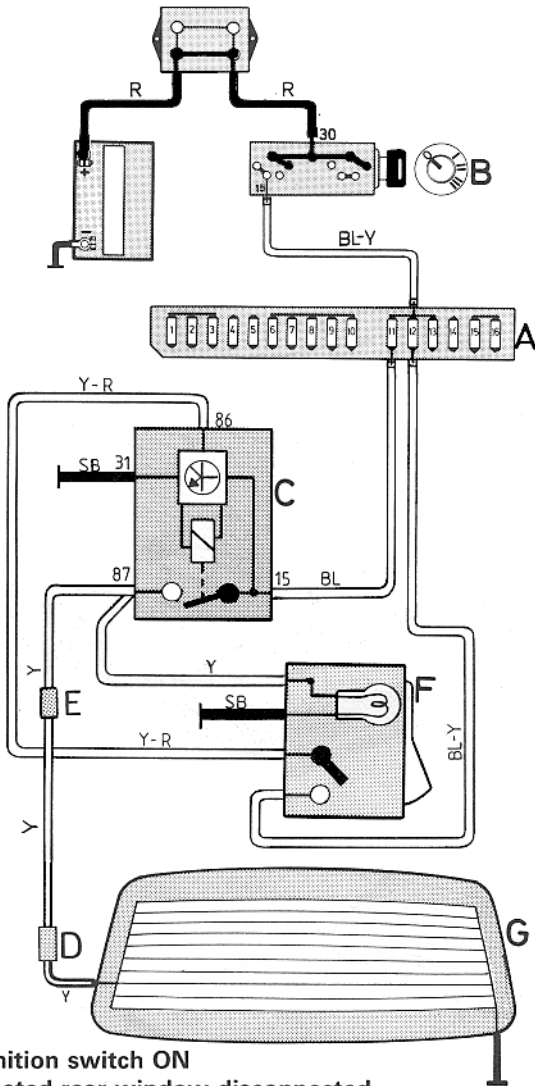
- A Fusebox
- B Ignition switch
- C Time delay relay
- D Connector (245)
- E connector
- F Switch for heated rear window
- G Heated rear window

Fuse No. 11

Overdrive

Fuse No. 12

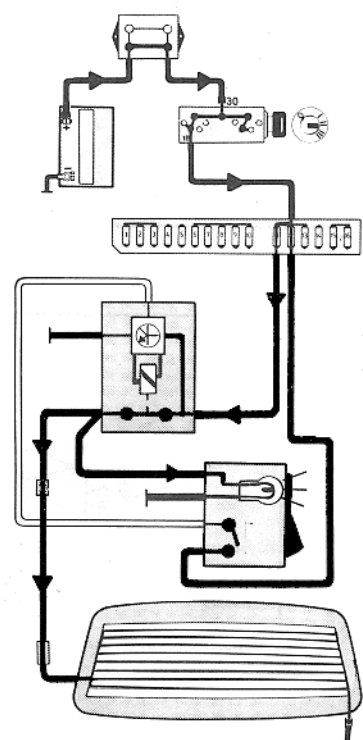
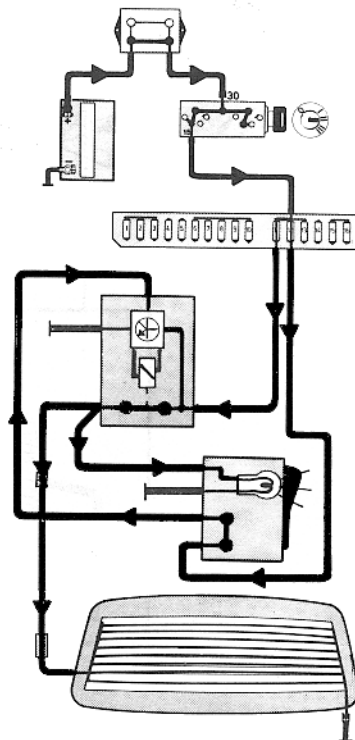
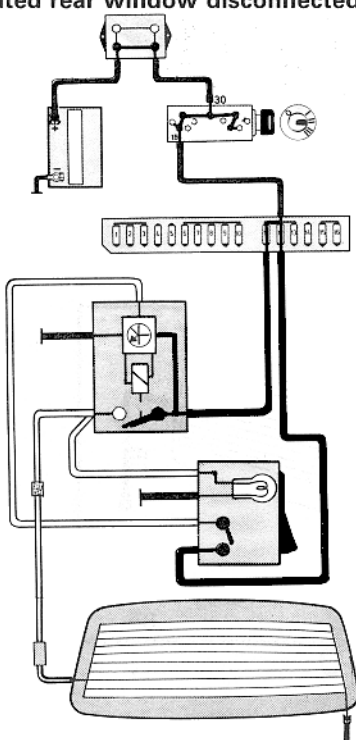
Air conditioning unit



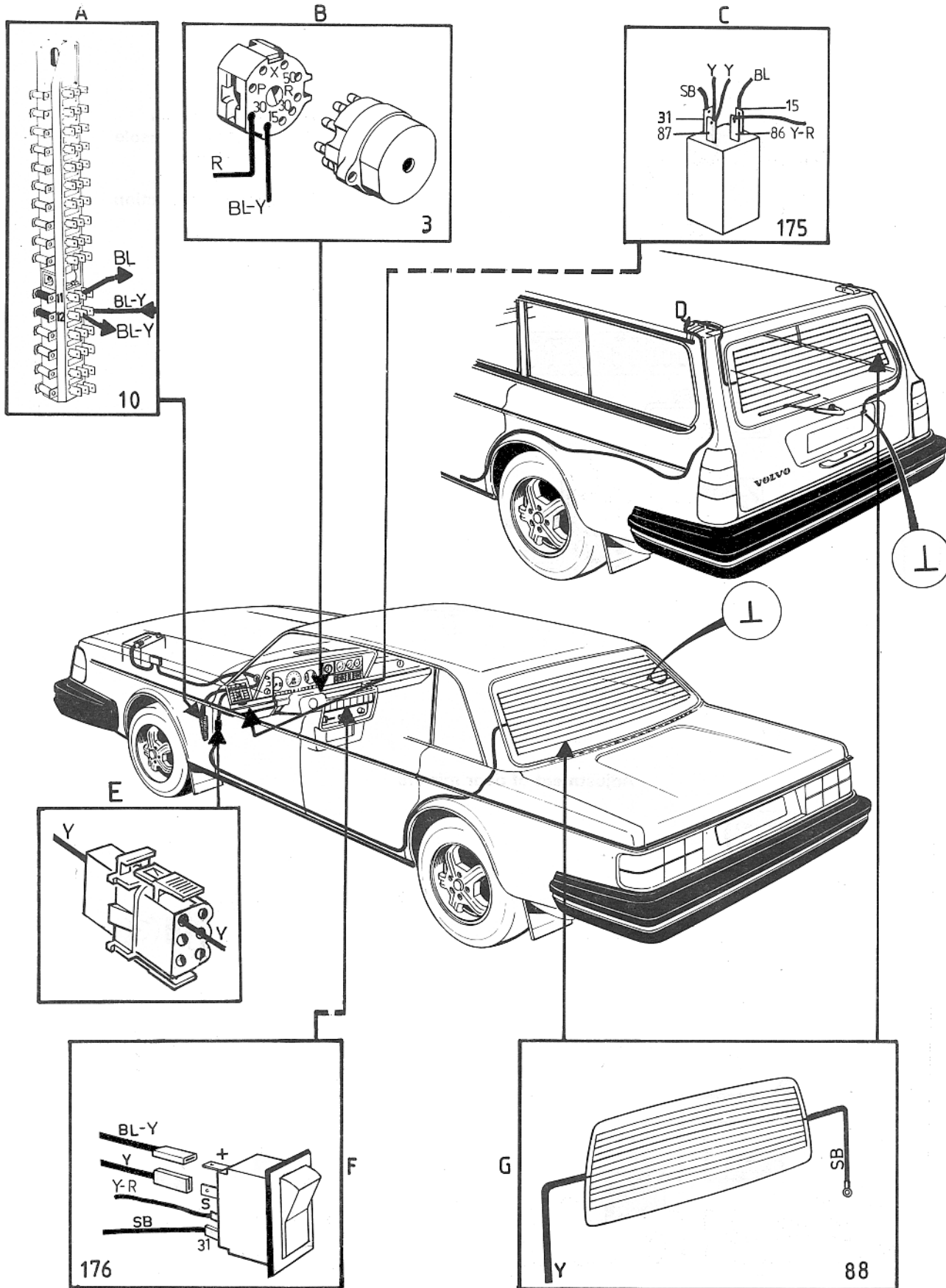
Ignition switch ON
Heated rear window disconnected

Heated rear window
connected

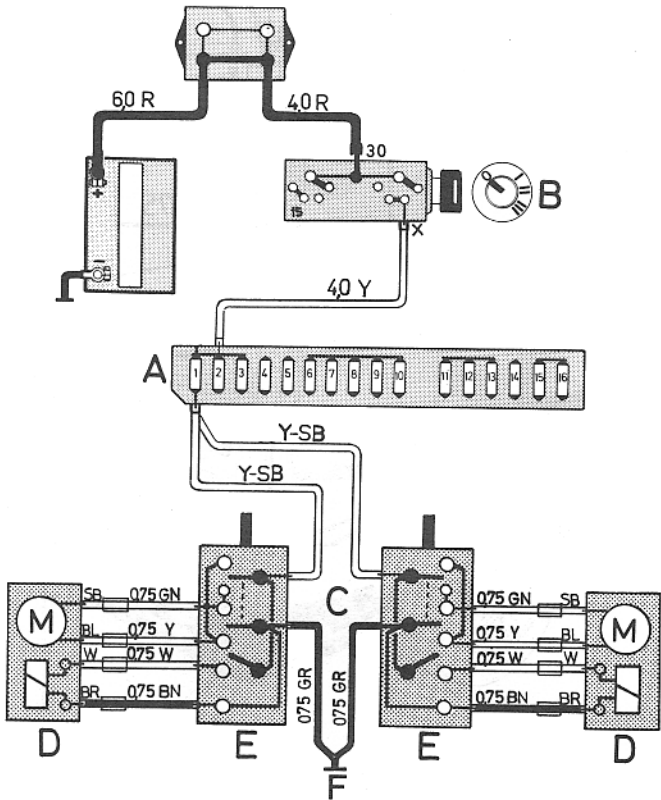
Time-delay relay disconnects
rear window after 12 mins



Heated rear window, USA, Canada



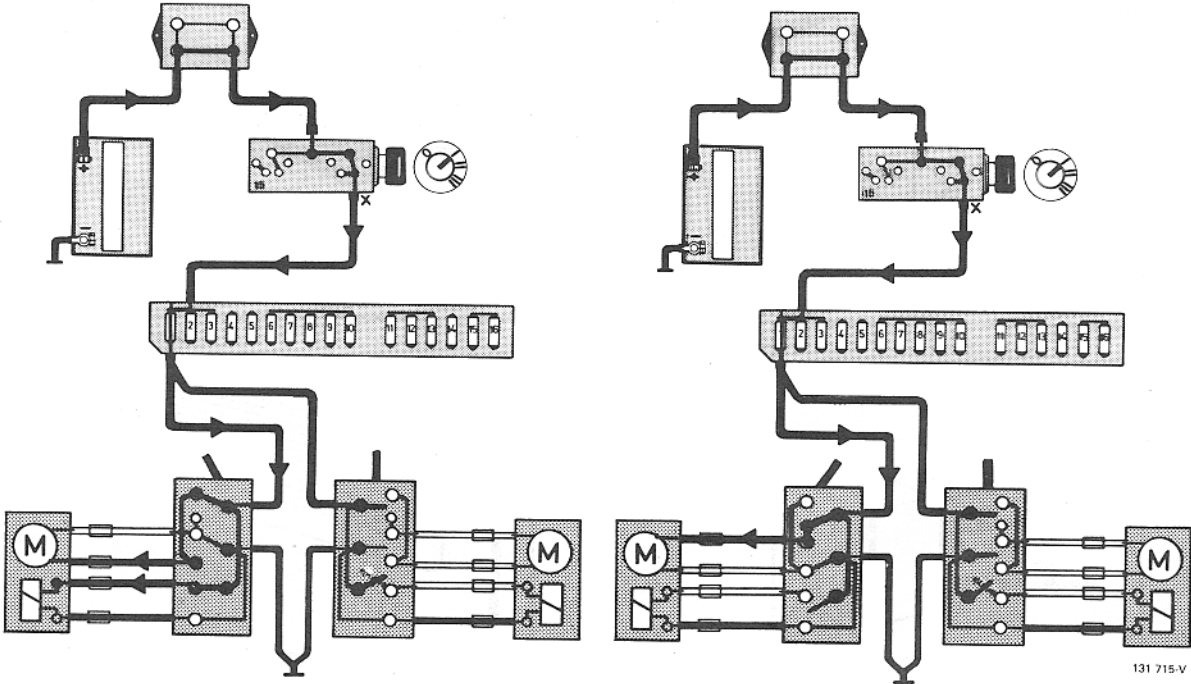
Electric door mirrors



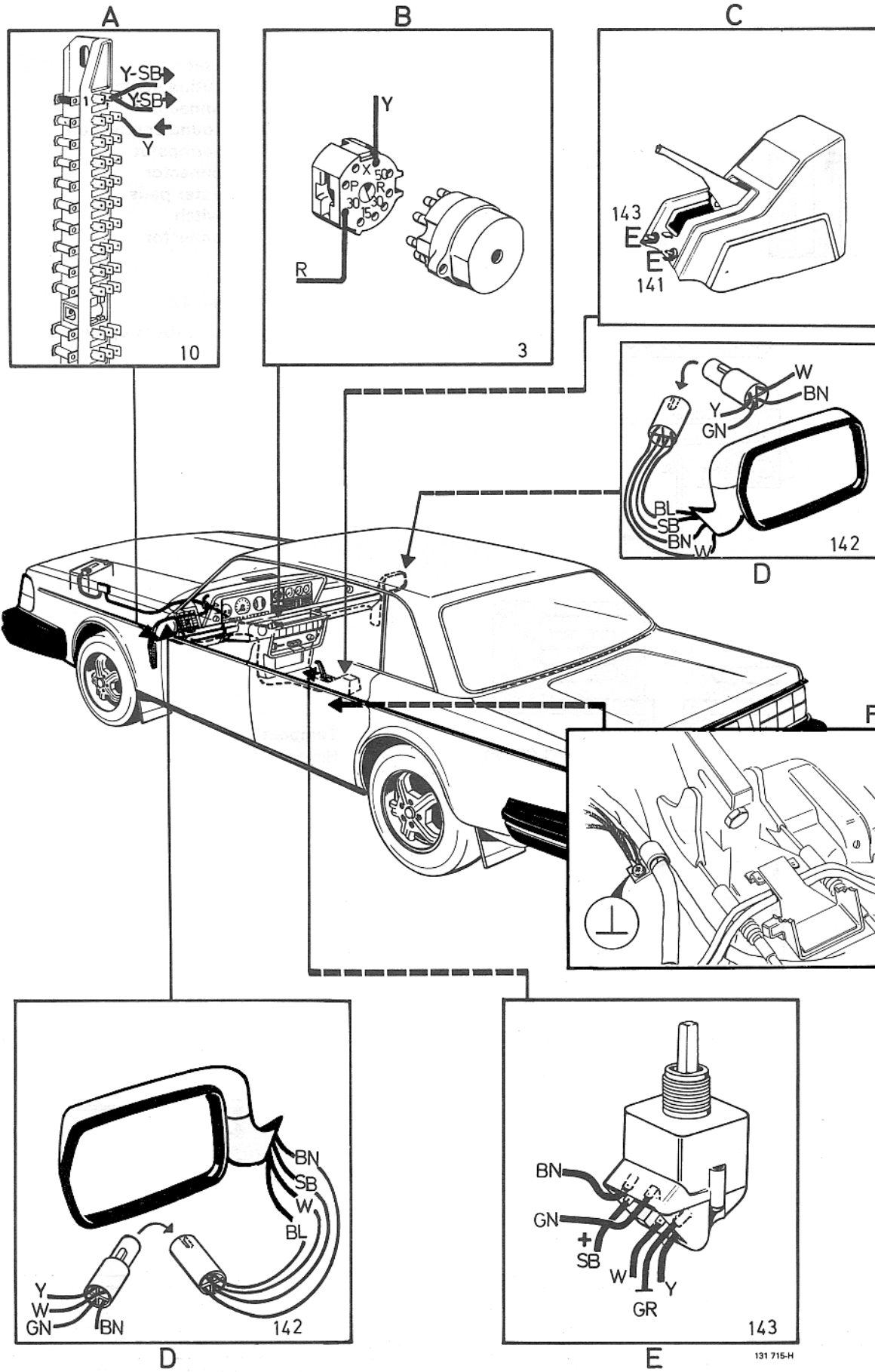
- A Fusebox
- B Ignition switch
- C Handbrake console
- D Door mirror
- E Control switch
- F Ground connection

Fuse No. 1
Cigar lighter

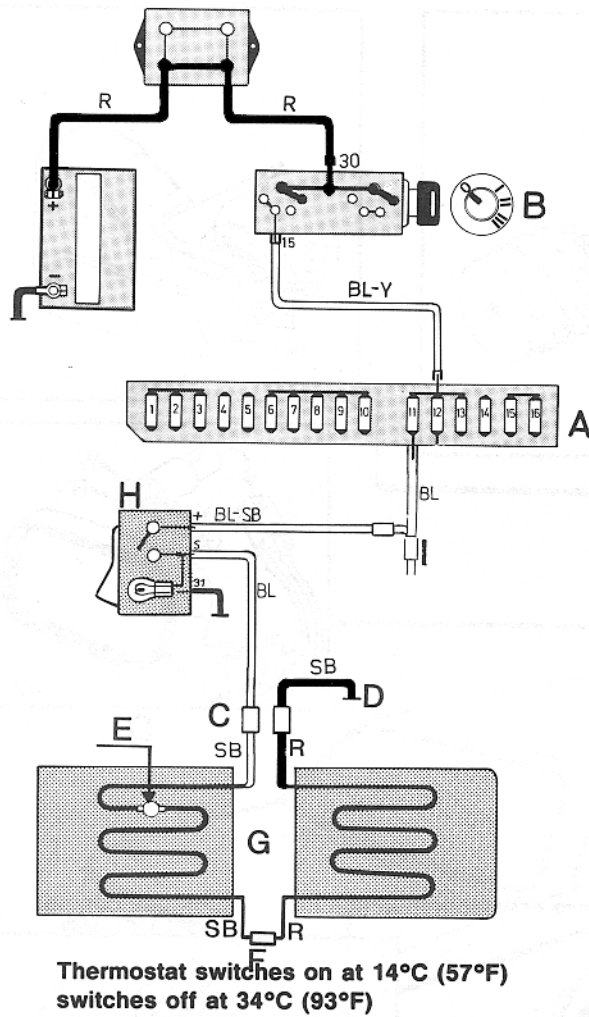
Adjustment of door mirrors



Electric door mirrors



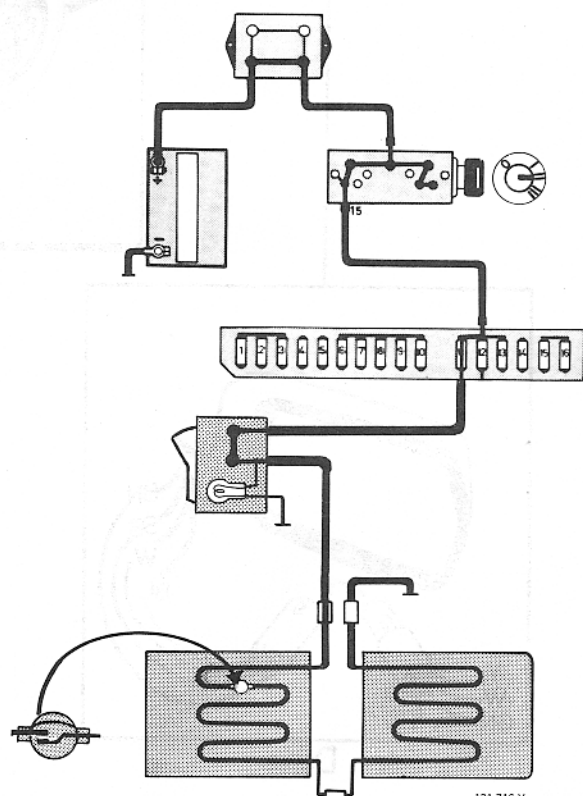
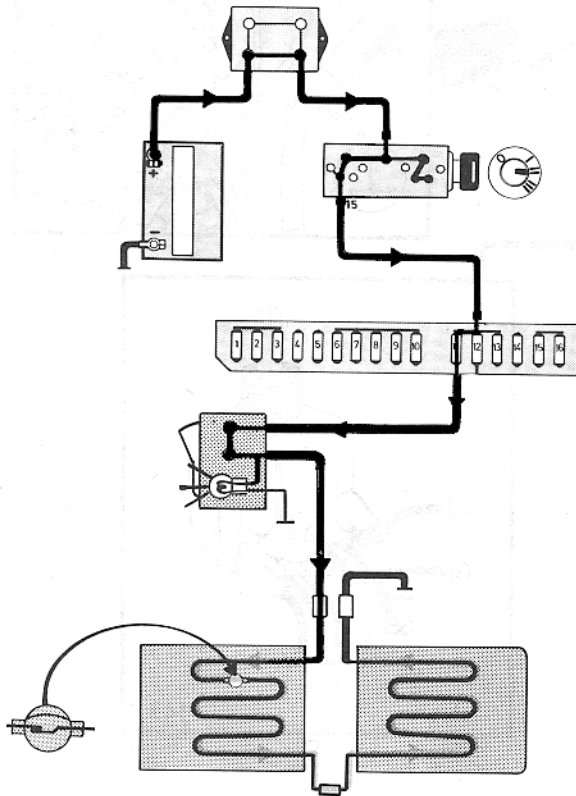
Heated driver's seat



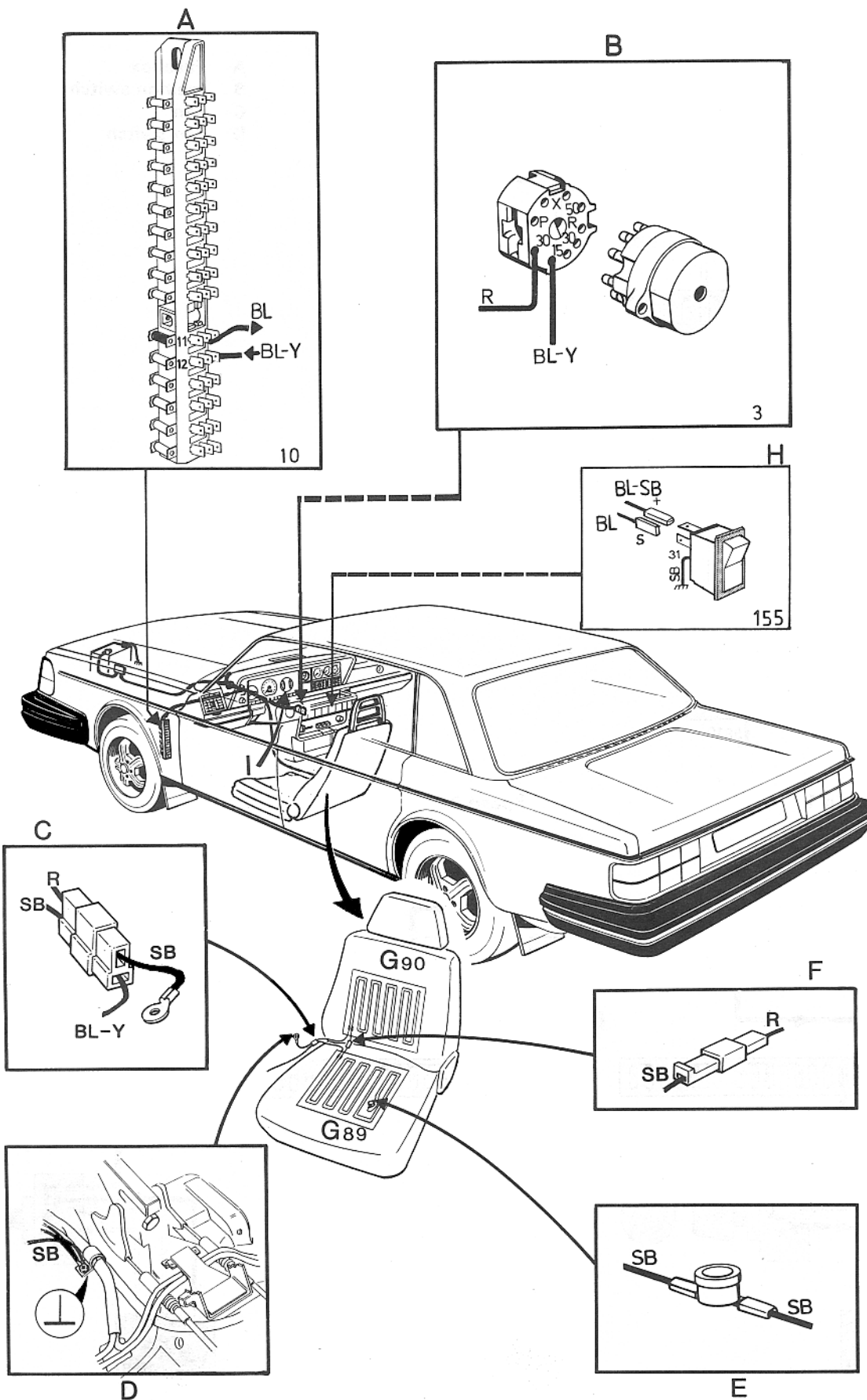
- a Fusebox
- B Ignition switch
- C Connector
- D Ground connection
- E Thermostat
- F Connector
- G Heater pads
- H Switch
- I Connector

Fuse No. 12
Reversing (back-up) lights

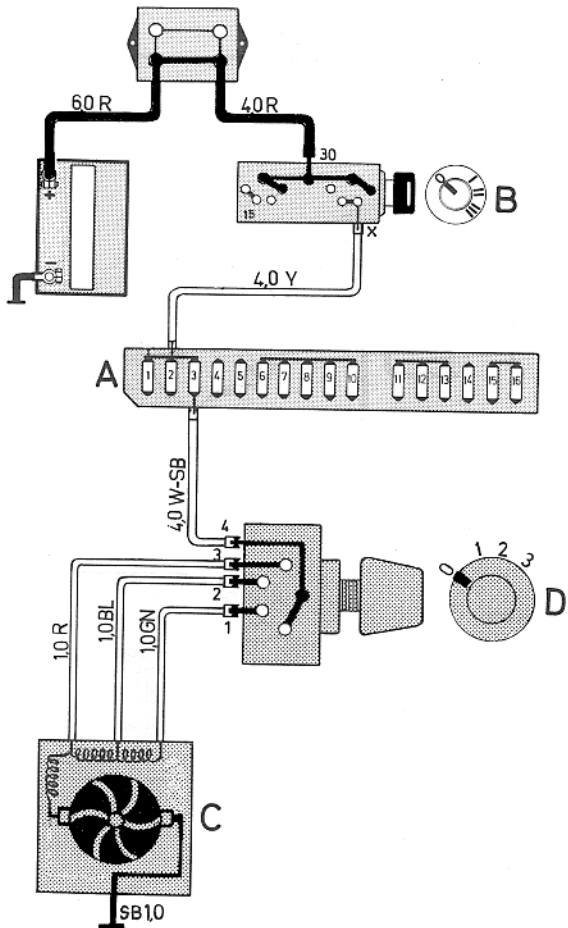
Temperatures above 34°C (93°F)
Heater pads switched off by thermostat



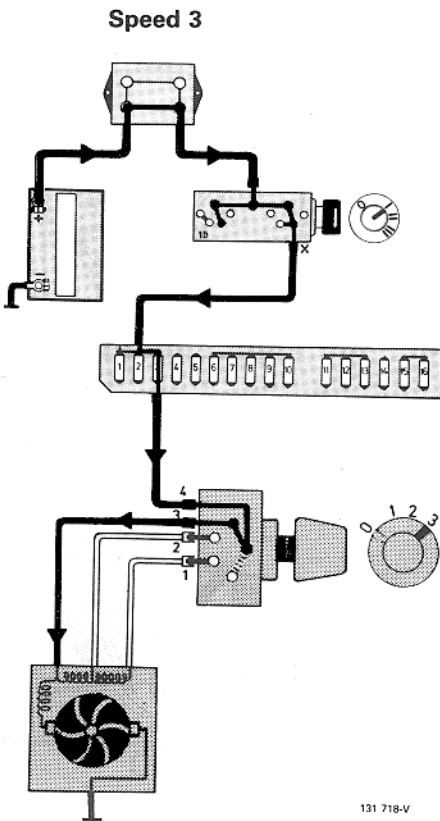
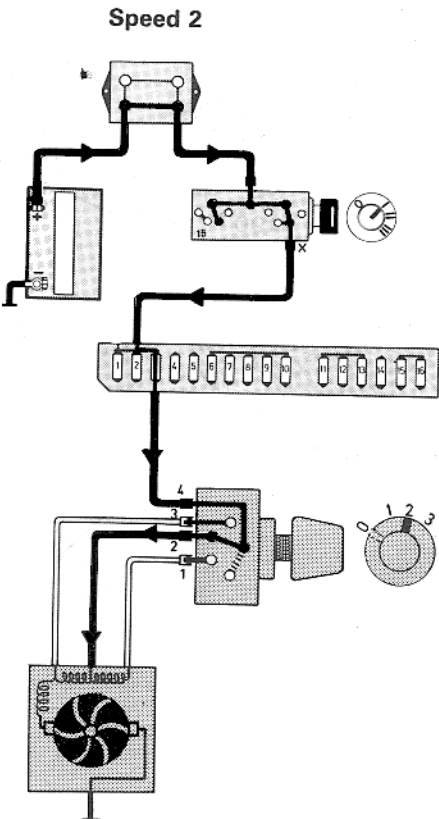
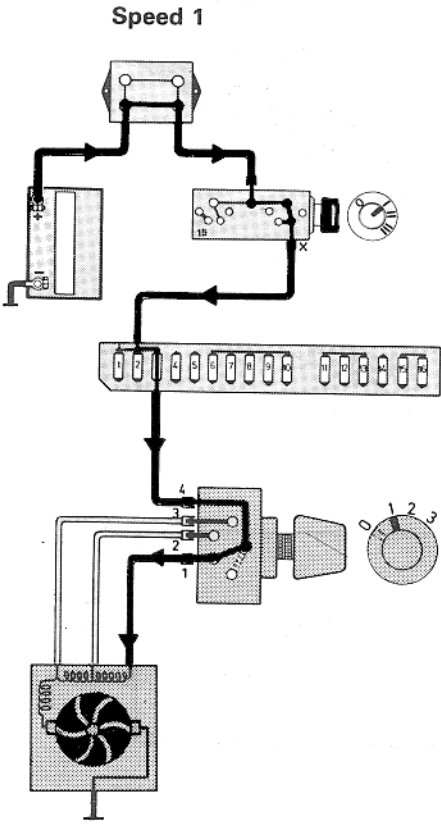
Heated driver's seat



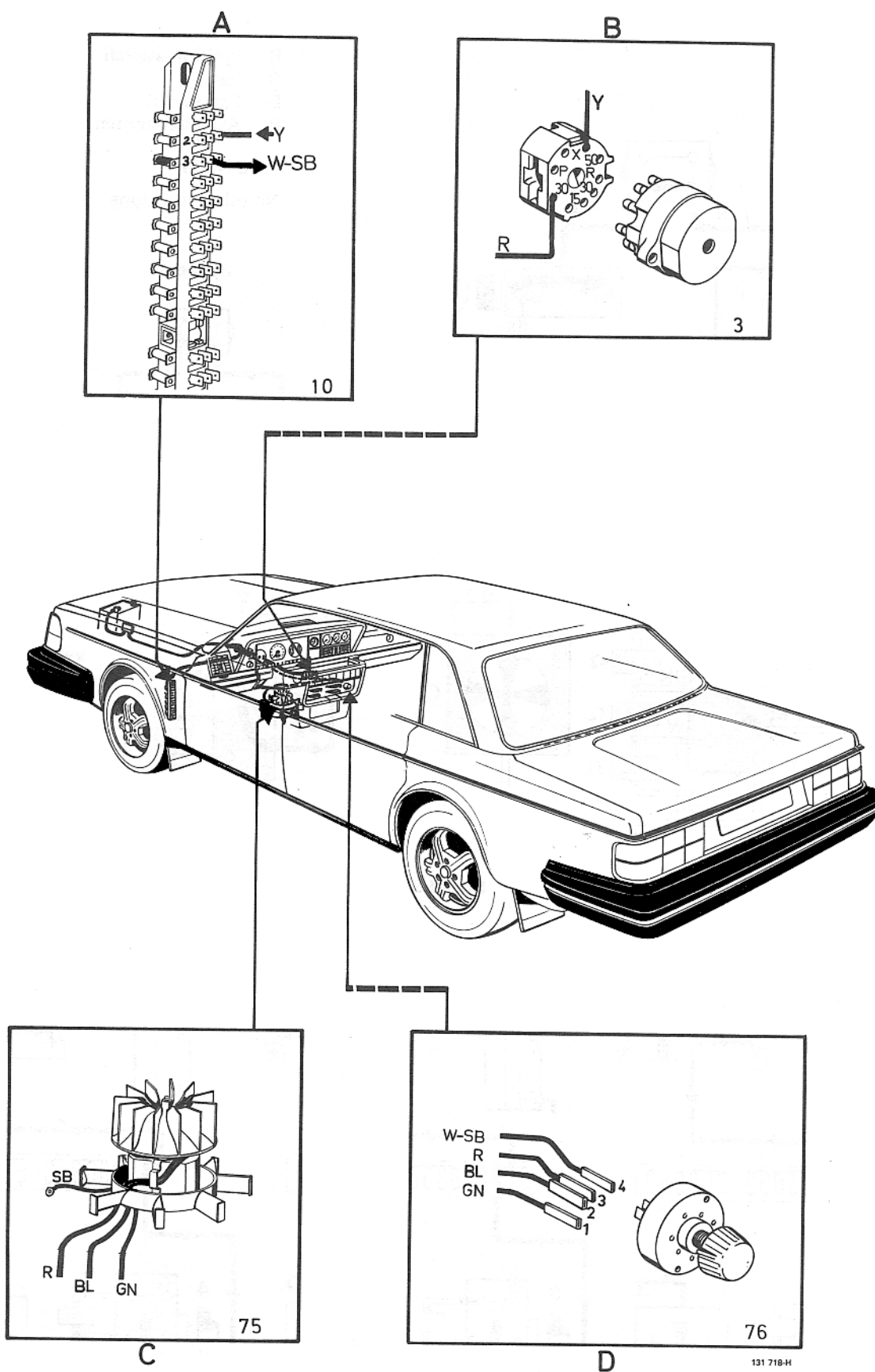
Heater fan, standard heating system



- A Fusebox
- B Ignition switch
- C Fan
- D Fan switch



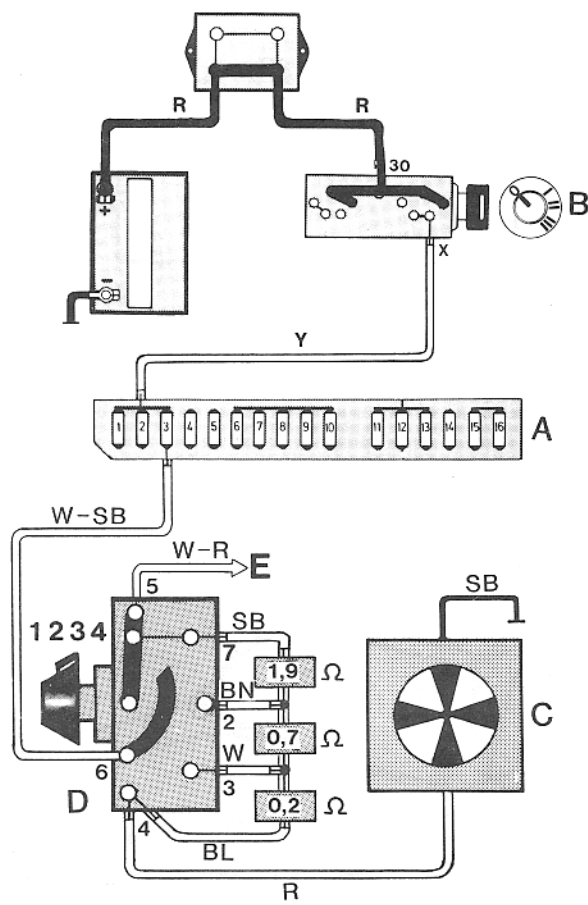
Heater fan, standard heating system



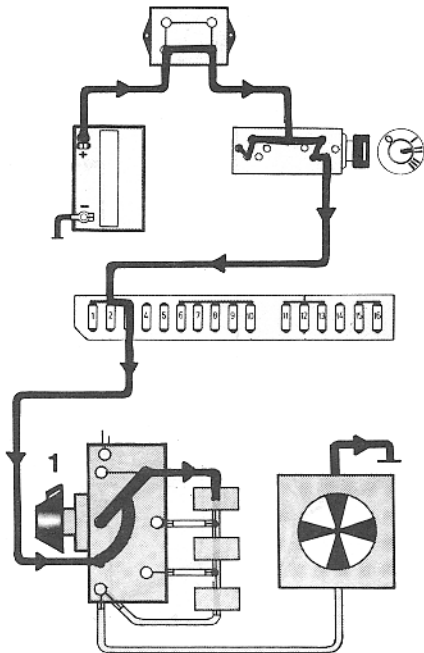
Heater fan, combined unit

- A Fusebox
- B Ignition switch
- C Fan
- D Fan switch
- E AC microswitch (213)

Fuse No. 3
No other functions



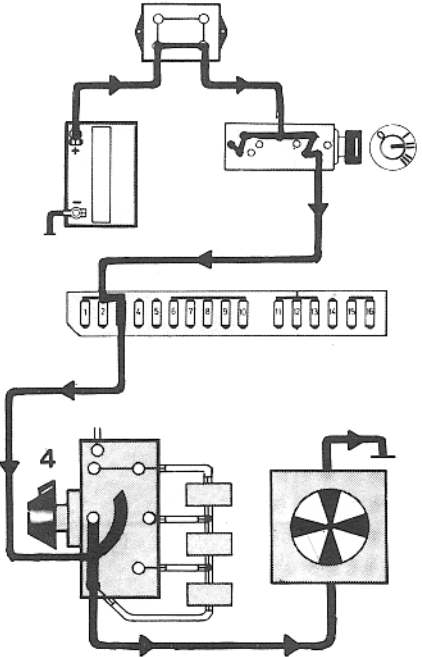
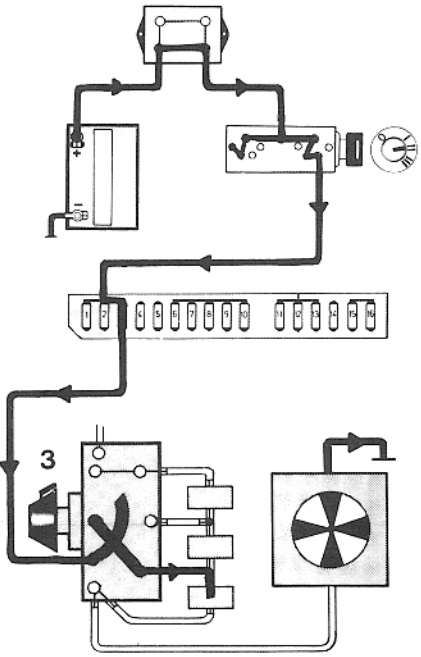
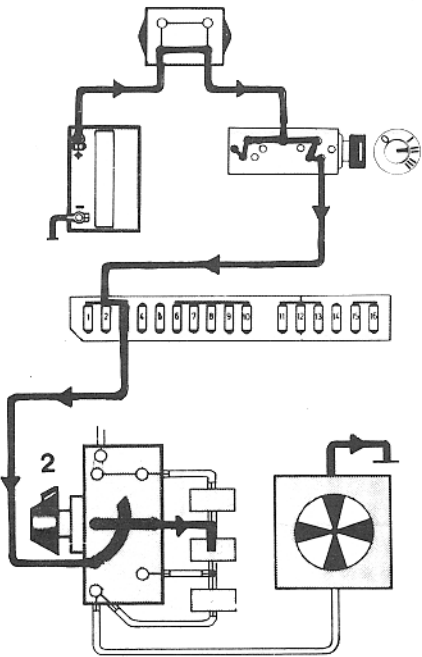
Speed 1



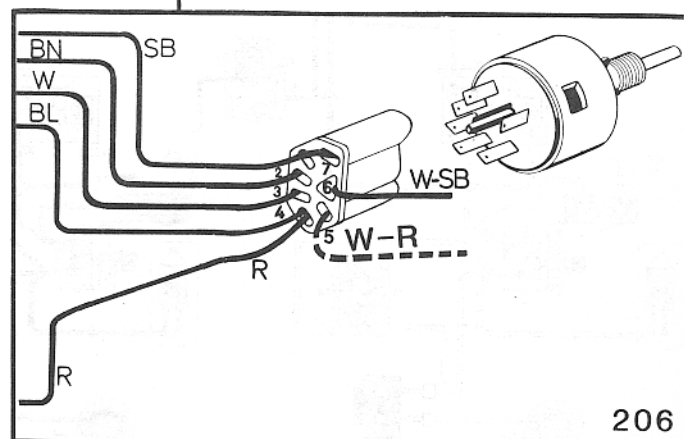
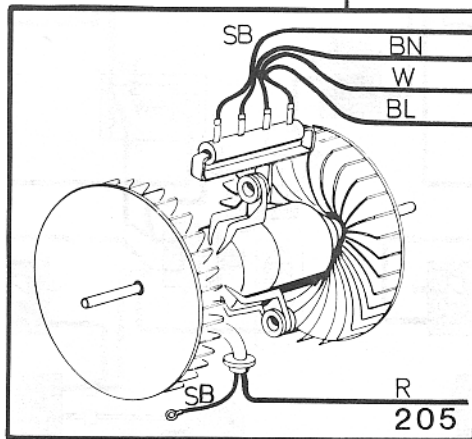
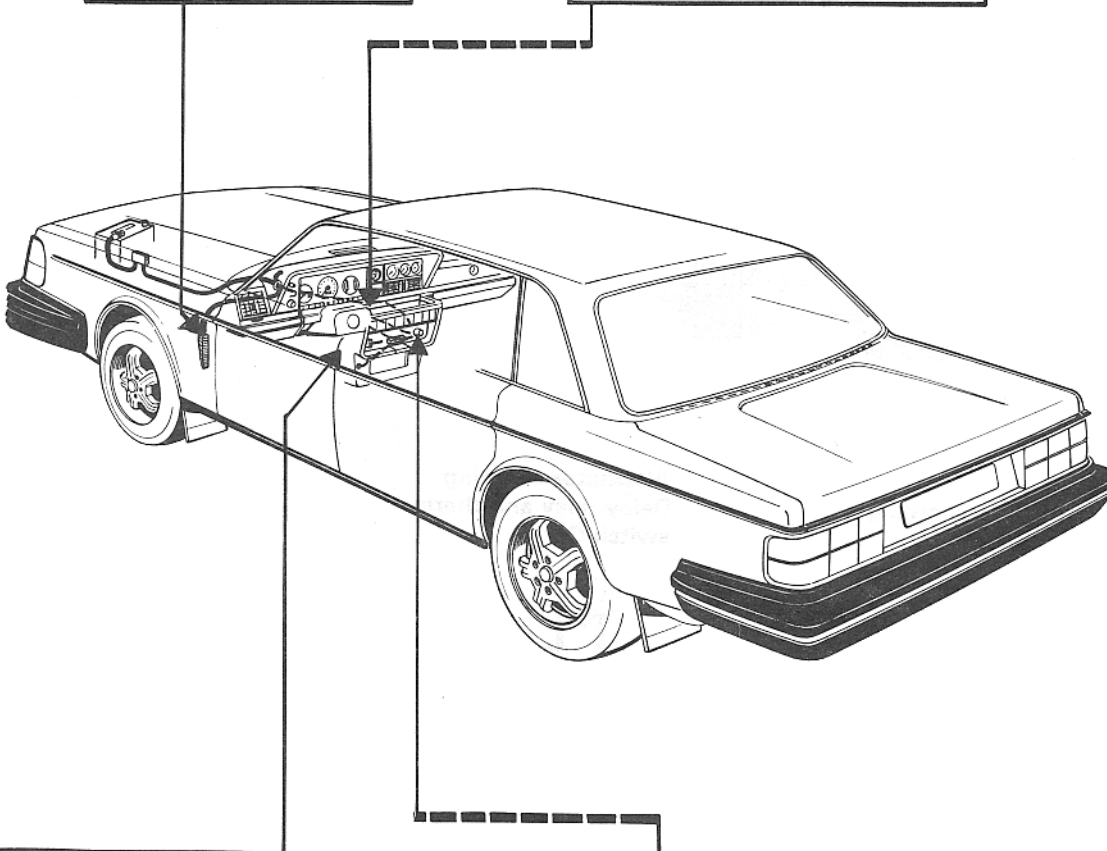
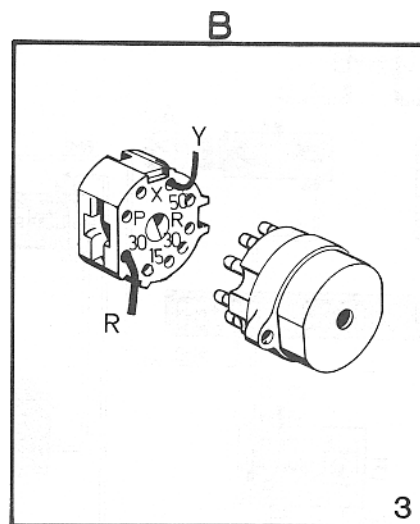
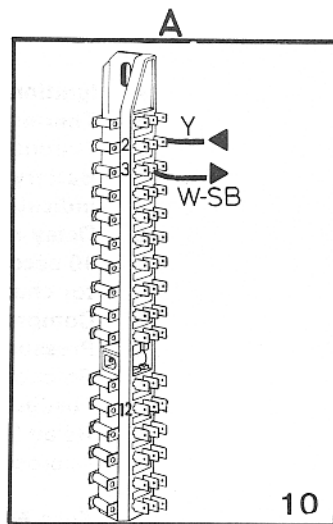
Speed 2

Speed 3

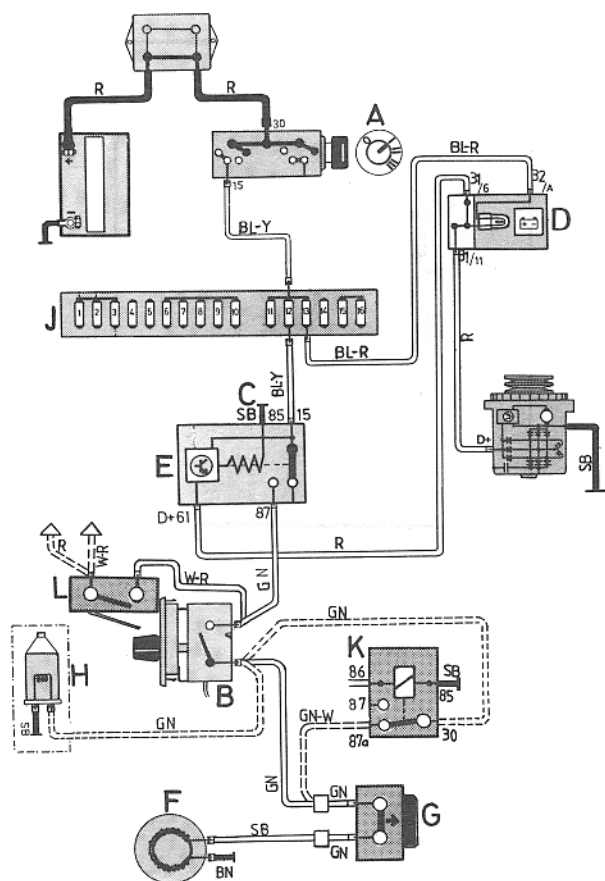
Speed 4



Heater fan, combined unit



Air conditioning



- A Ignition switch
- B Thermostat switch
- C Ground connection
- D Battery charge failure indicator lamp
- E Delay relay (energized 10 seconds after alternator charges)
- F Compressor solenoid
- G Pressure sensor
- H Solenoid valve
- J Fusebox
- K Relay (disengaging of AC)
- L Microswitch

Fuse No. 12

Reversing (back-up) lights

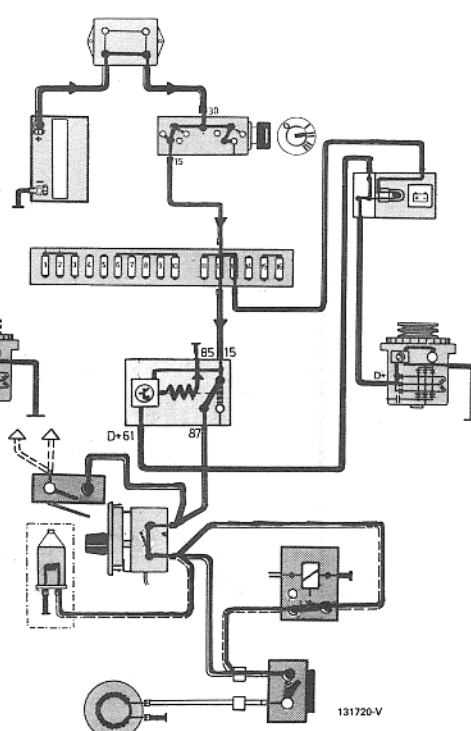
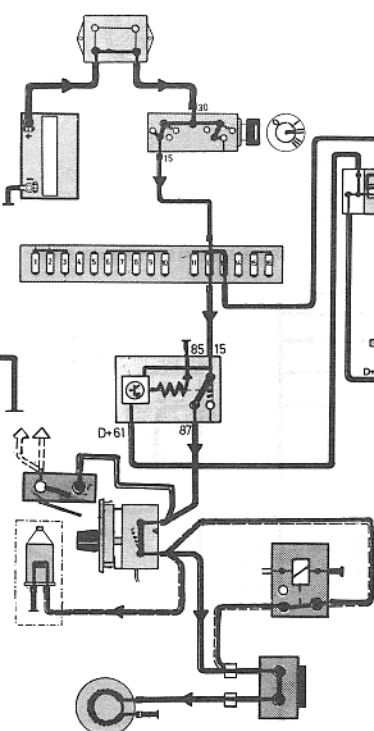
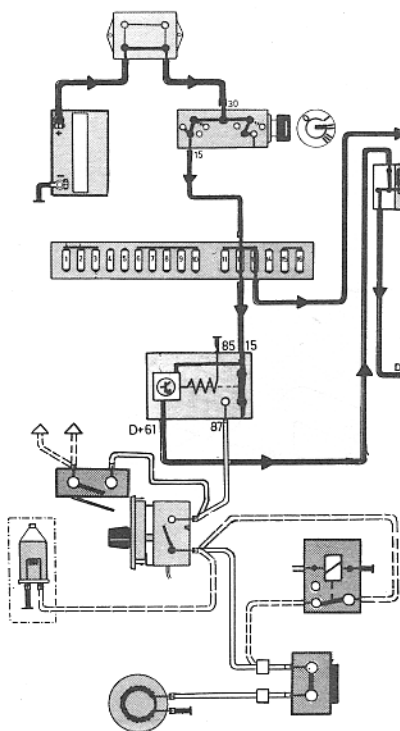
Fuse No. 13

Direction indicators

Alternator not charging
Delay relay OFF

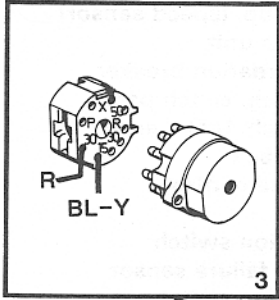
Alternator charging
Delay relay and thermostat switch ON

Pressure sensor activated, delay relay and thermostat switch ON
Current supply to solenoid OFF

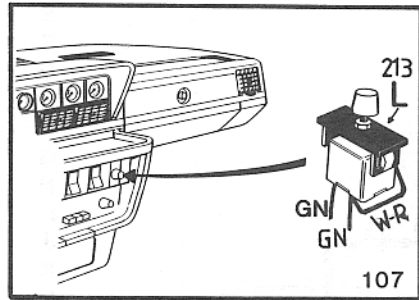


Air conditioning

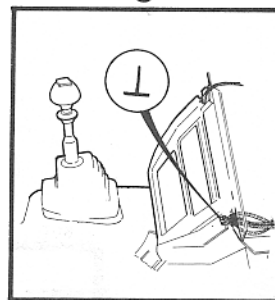
A



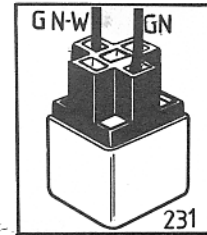
B



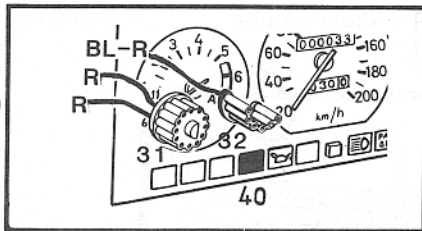
C



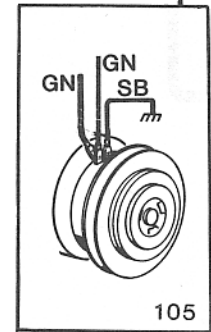
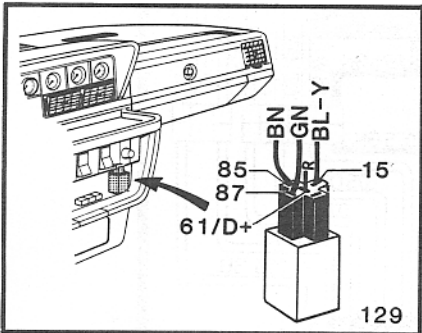
K



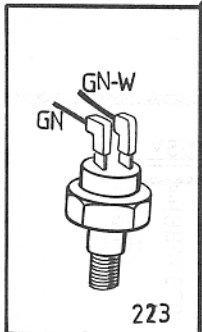
D



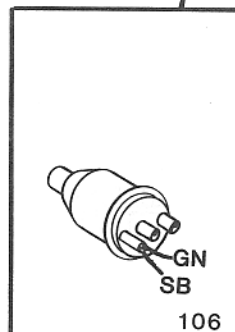
E



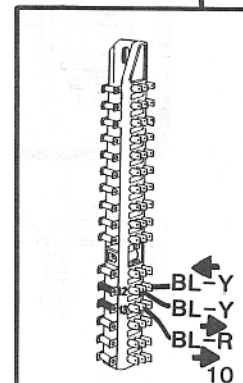
F



G



H

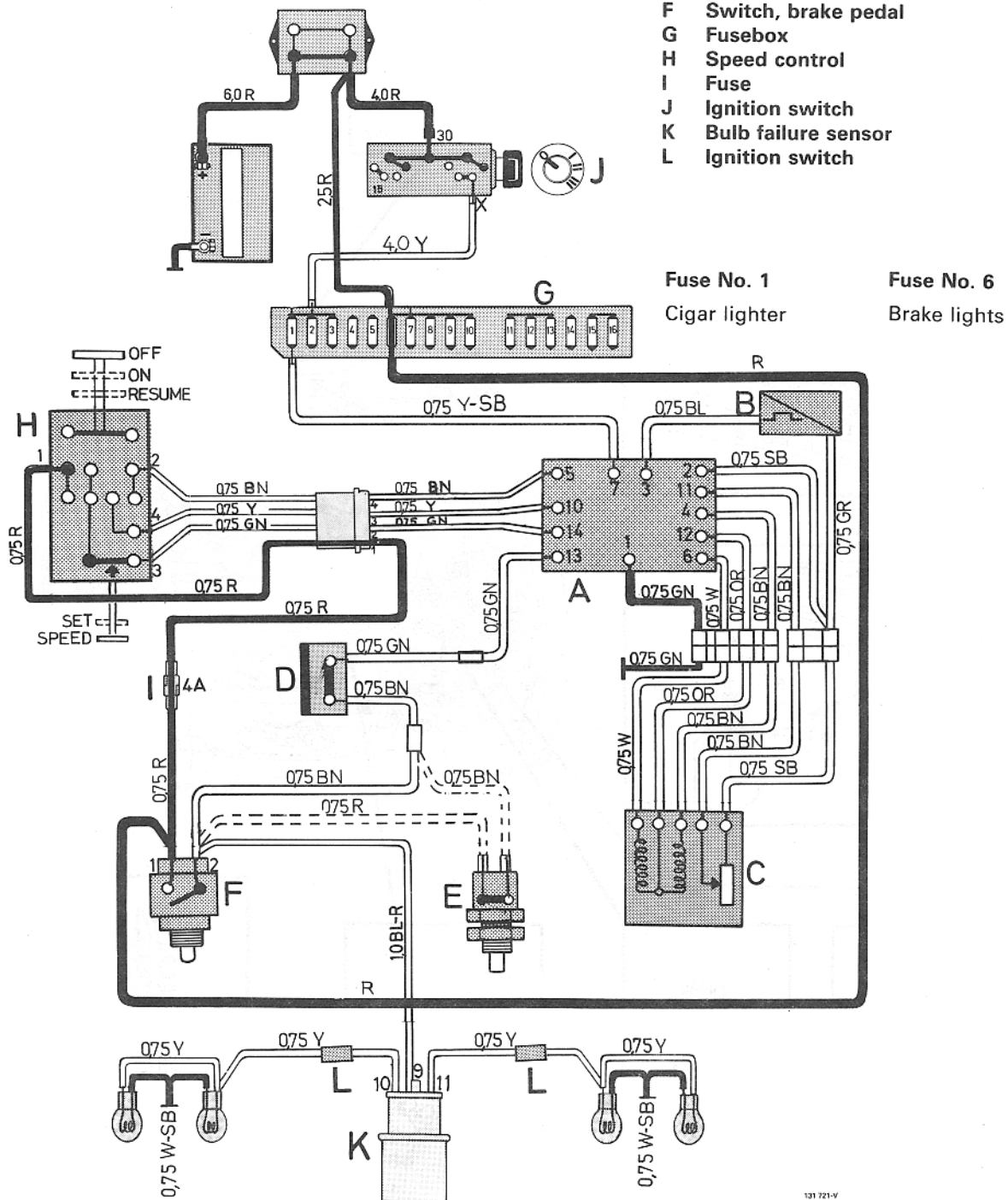


J

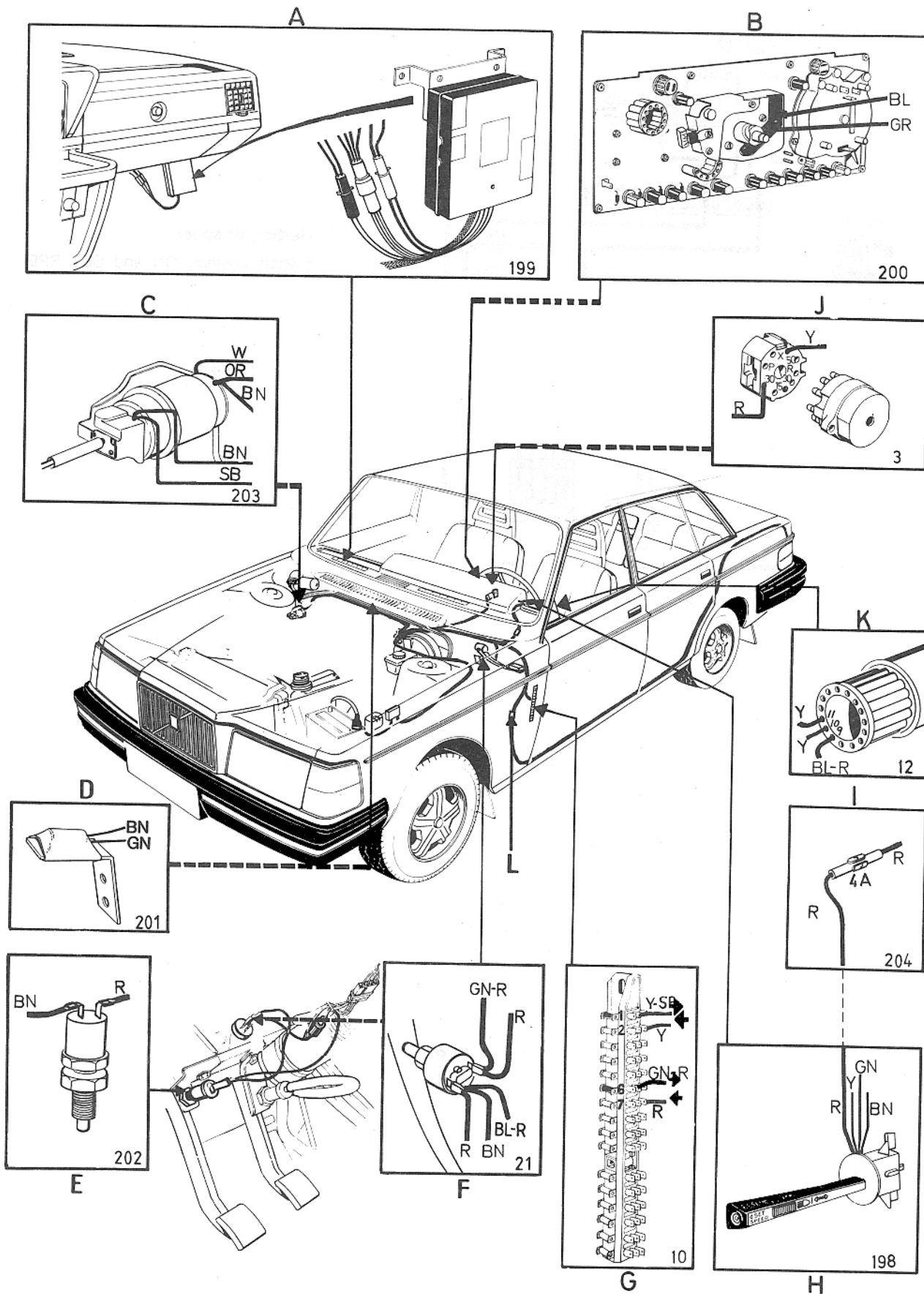
131720-H

Cruise control

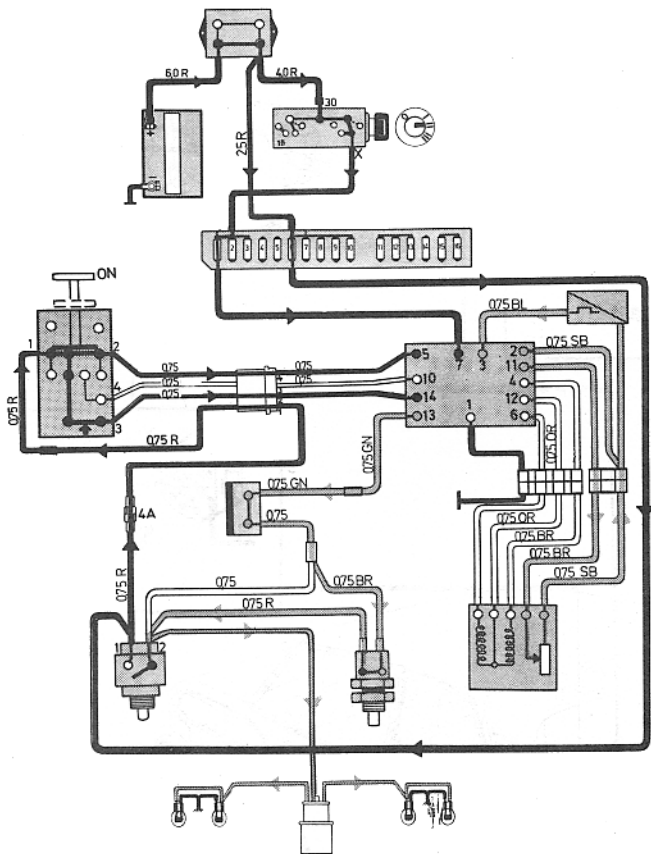
- A Control unit
- B Pick-up, (speed sensor)
- C Servo unit
- D Retardation breaker
- E Switch, clutch pedal
- F Switch, brake pedal
- G Fusebox
- H Speed control
- I Fuse
- J Ignition switch
- K Bulb failure sensor
- L Ignition switch



Cruise control



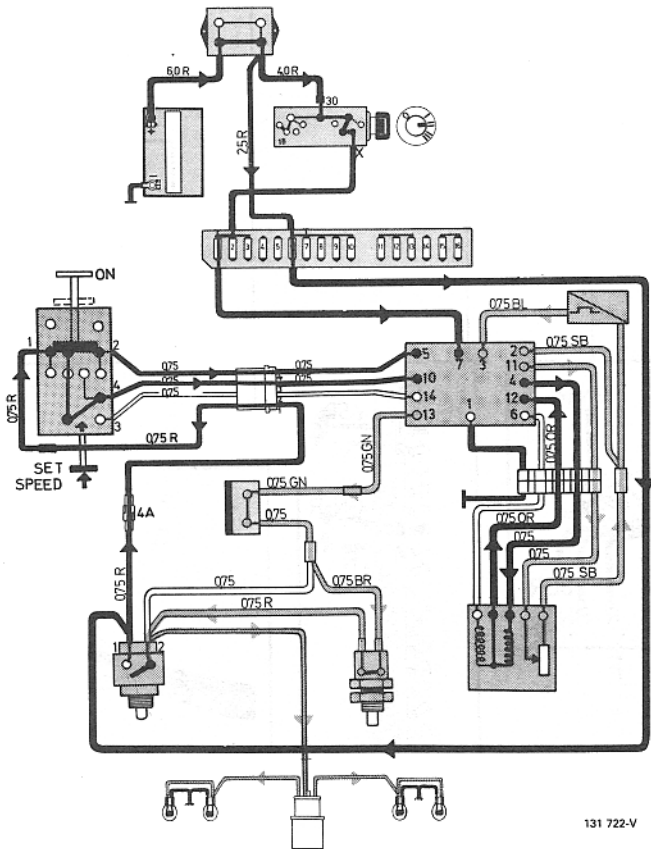
Cruise control



Setting of speed

Switch position ON and SET SPEED button depressed.

Relay and vacuum valve in speed regulator earthed (grounded) through brake light bulbs. Current is too small to illuminate brake lights.



Maintaining selected speed

Switch "ON".

(Provided that speed >48 km/h (30 mph) and brake and/or clutch pedals not depressed).

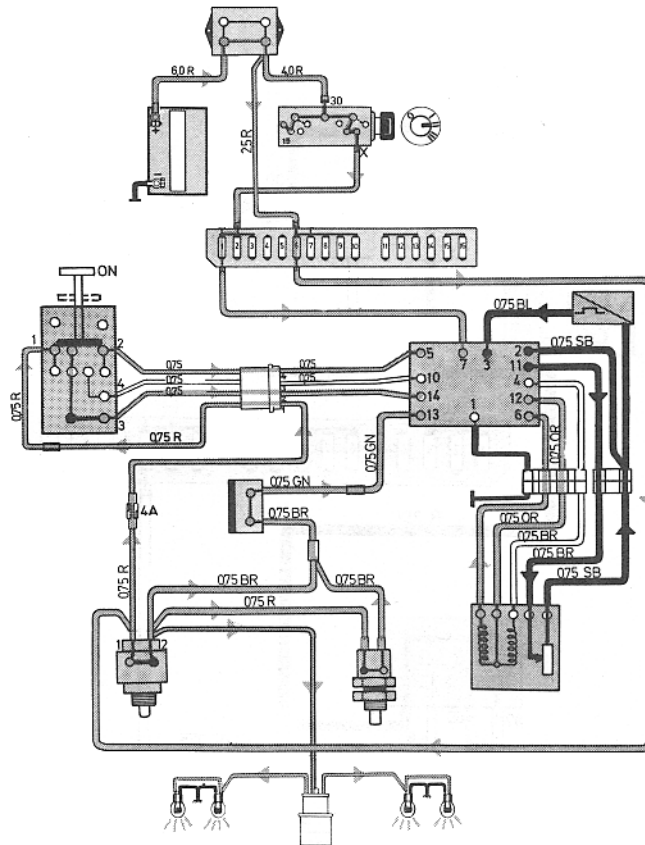
Cruise control

Braking

Switch "ON".

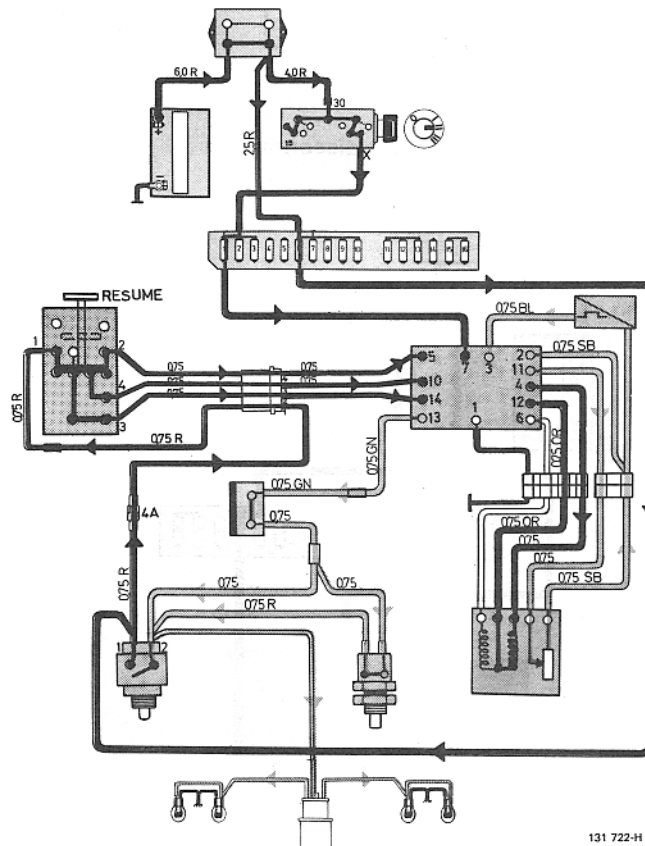
Brake pedal depressed (earth/ground connection interrupted).

Control unit is grounded via brake lights, but on braking and/or depressing clutch pedal the ground connection is interrupted and the control unit is de-energized. The same happens if both brake light bulbs blow.

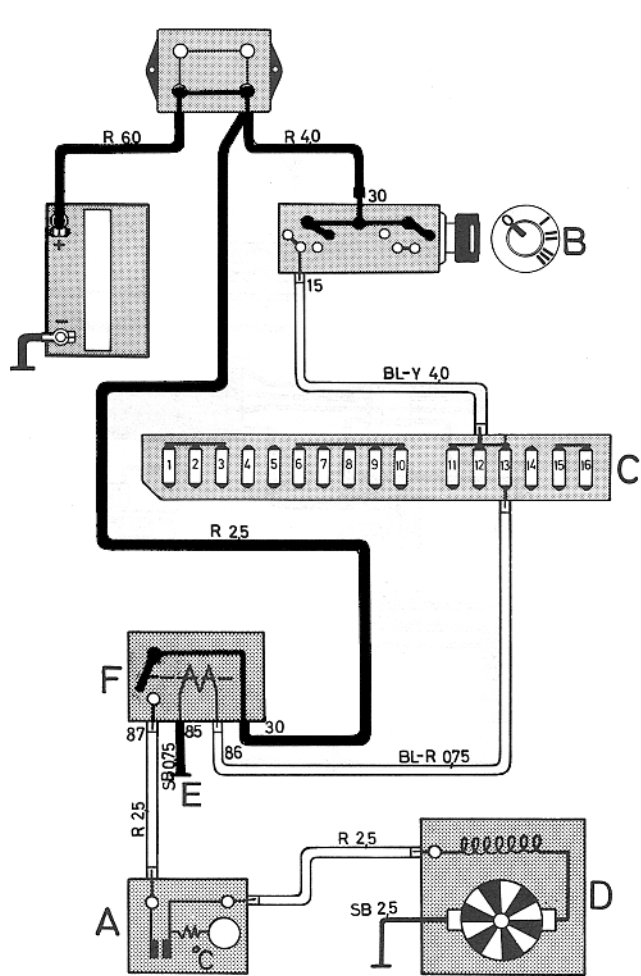


Retaining the previously selected speed

After braking the switch must be turned to RESUME so that set speed can be reobtained.



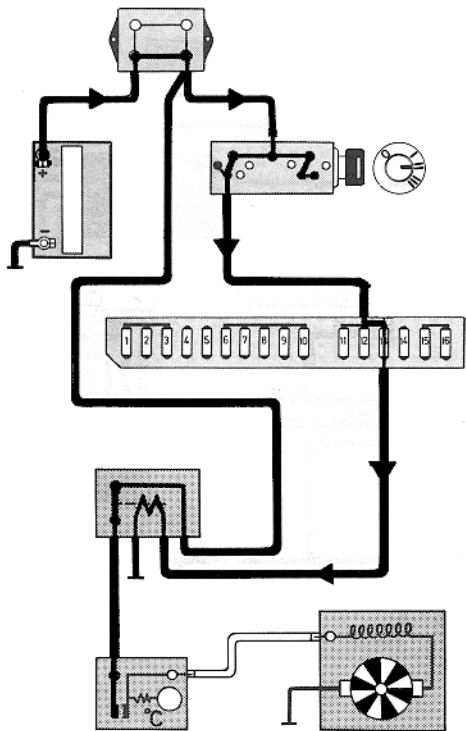
Electric cooling fan



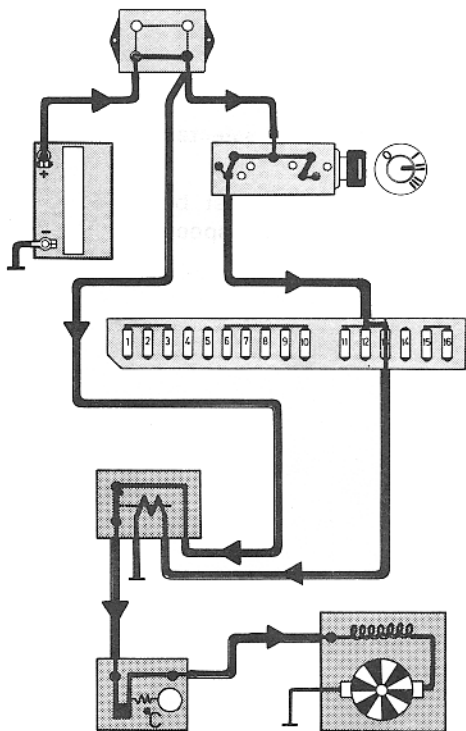
- A Thermostat contact
- B Ignition switch
- C Fusebox
- D Electric cooling fan
- E Ground connection
- F Relay

Fuse No. 13
Direction indicator

Ignition ON
Thermostat contact disconnected

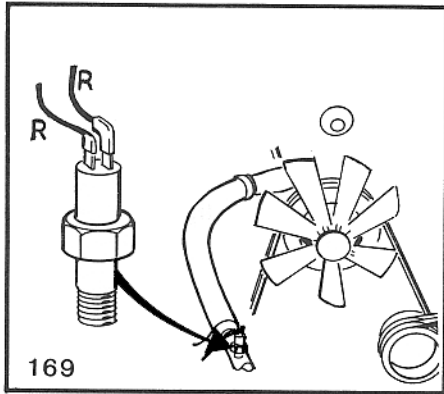


Ignition ON
Thermostat contact connected

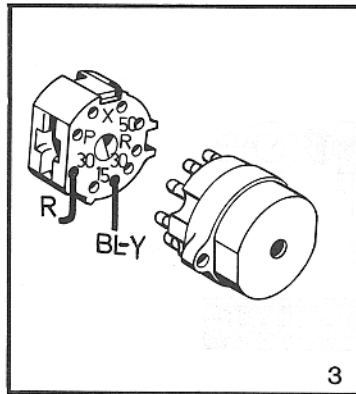


Electric cooling fan

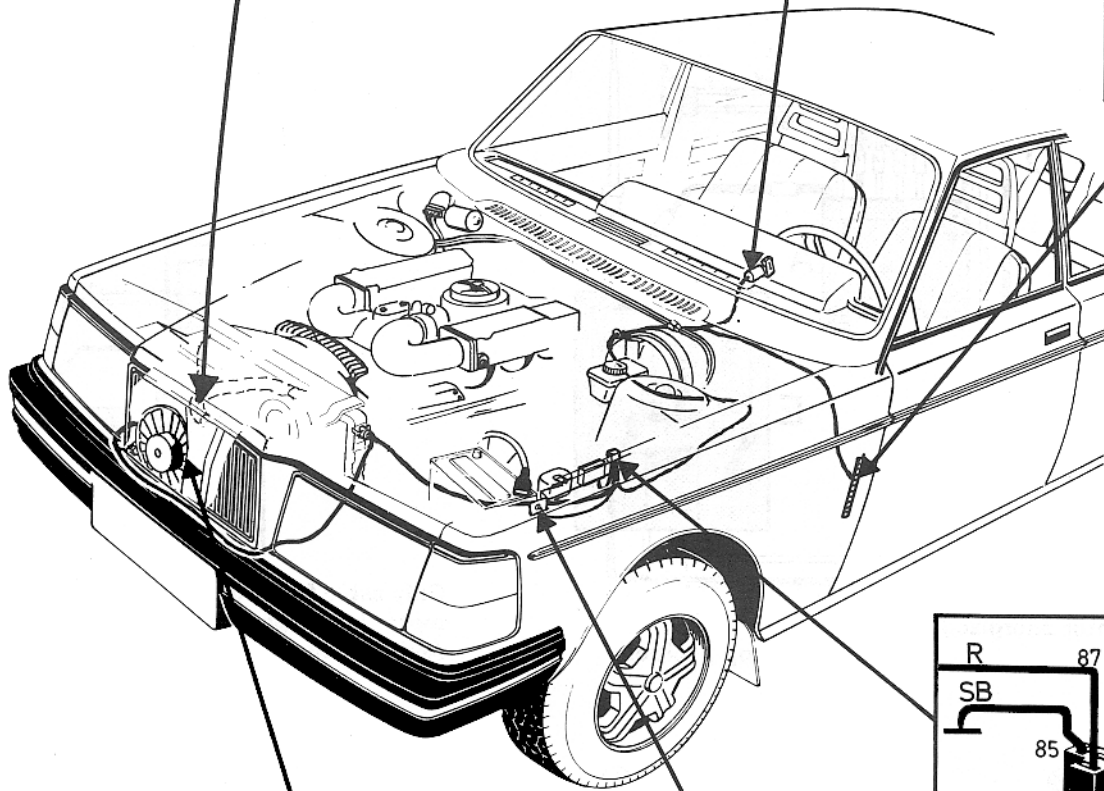
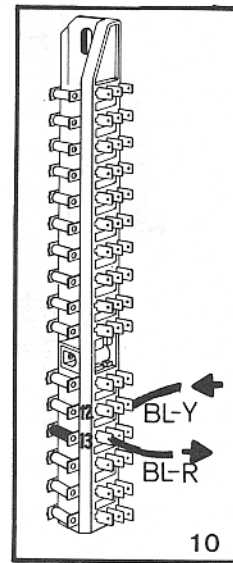
A



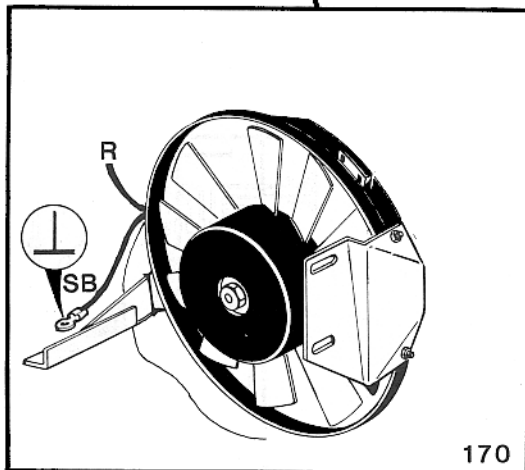
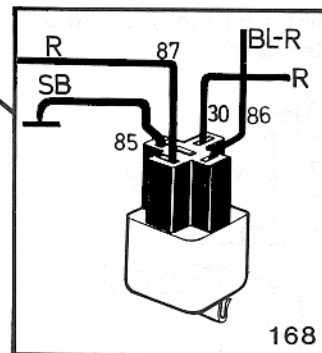
B



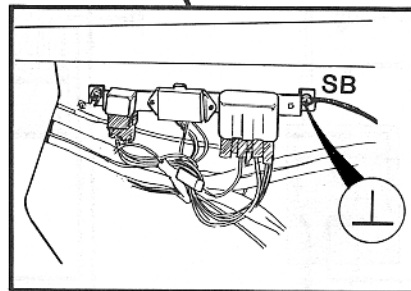
C



F

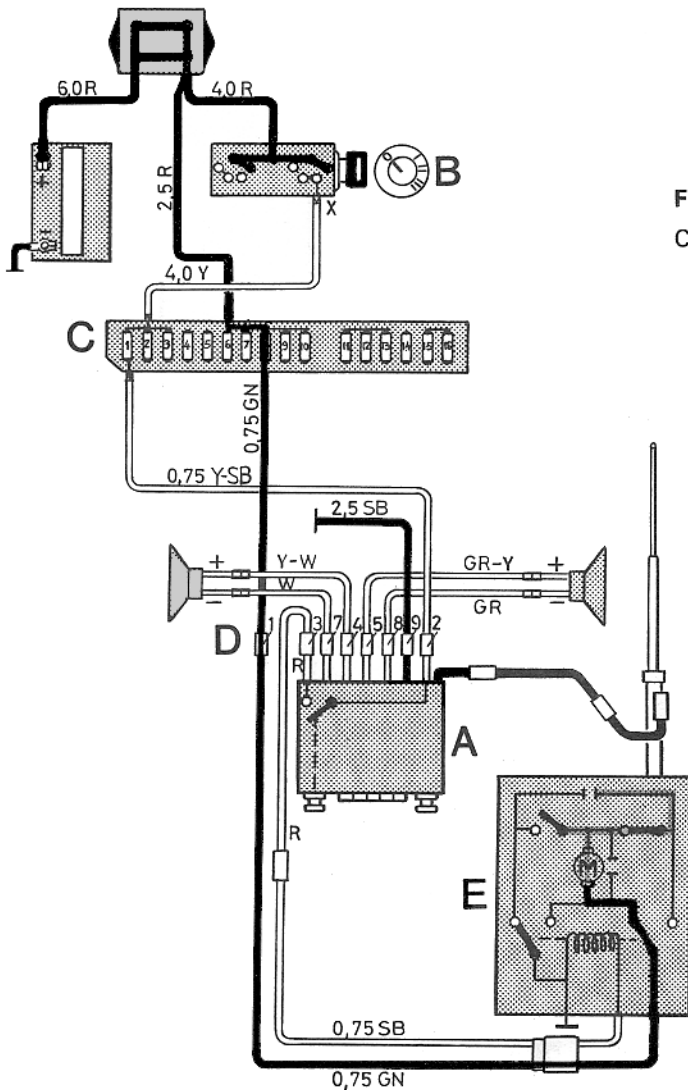


D



E

Electric aerial (antenna)

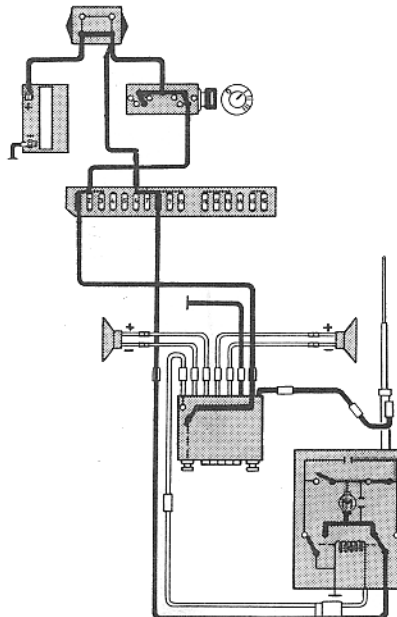


- A** Radio
B Ignition switch
C Fusebox
D Connector
E Aerial

Fuse No. 1
Cigar lighter

Fuse No. 8
Courtesy light

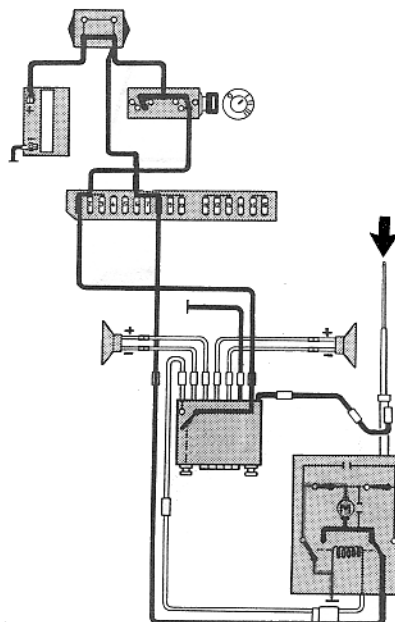
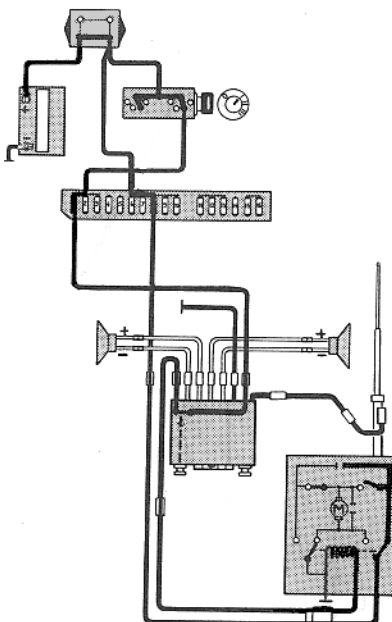
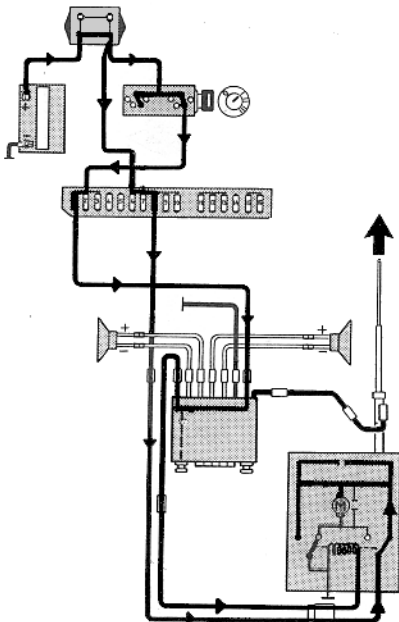
Lower stop position



Only cable from fuse No. 8 to aerial motor is energized
Aerial is lowered

Both cables for motor energized
Aerial is raised

Upper stop position



Electric aerial (antenna)

