

Wiring Diagrams 1981

Section
3

Group
39

Wiring Diagrams

1981 Models

VOLVO

Contents

NOTE:

Diesel circuitry is generally = GLE

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Printed in U.S.A.

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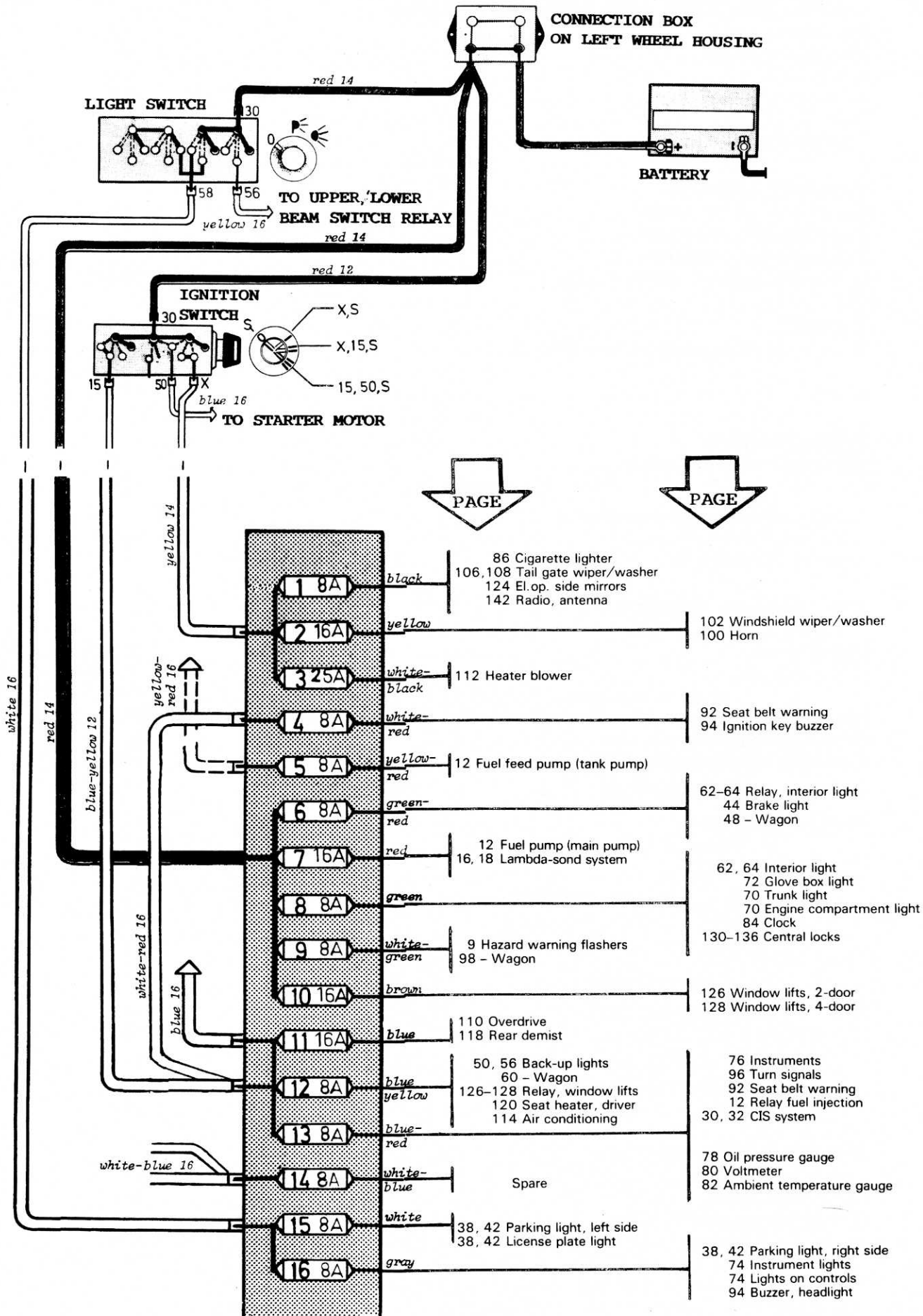
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Master wiring diagram

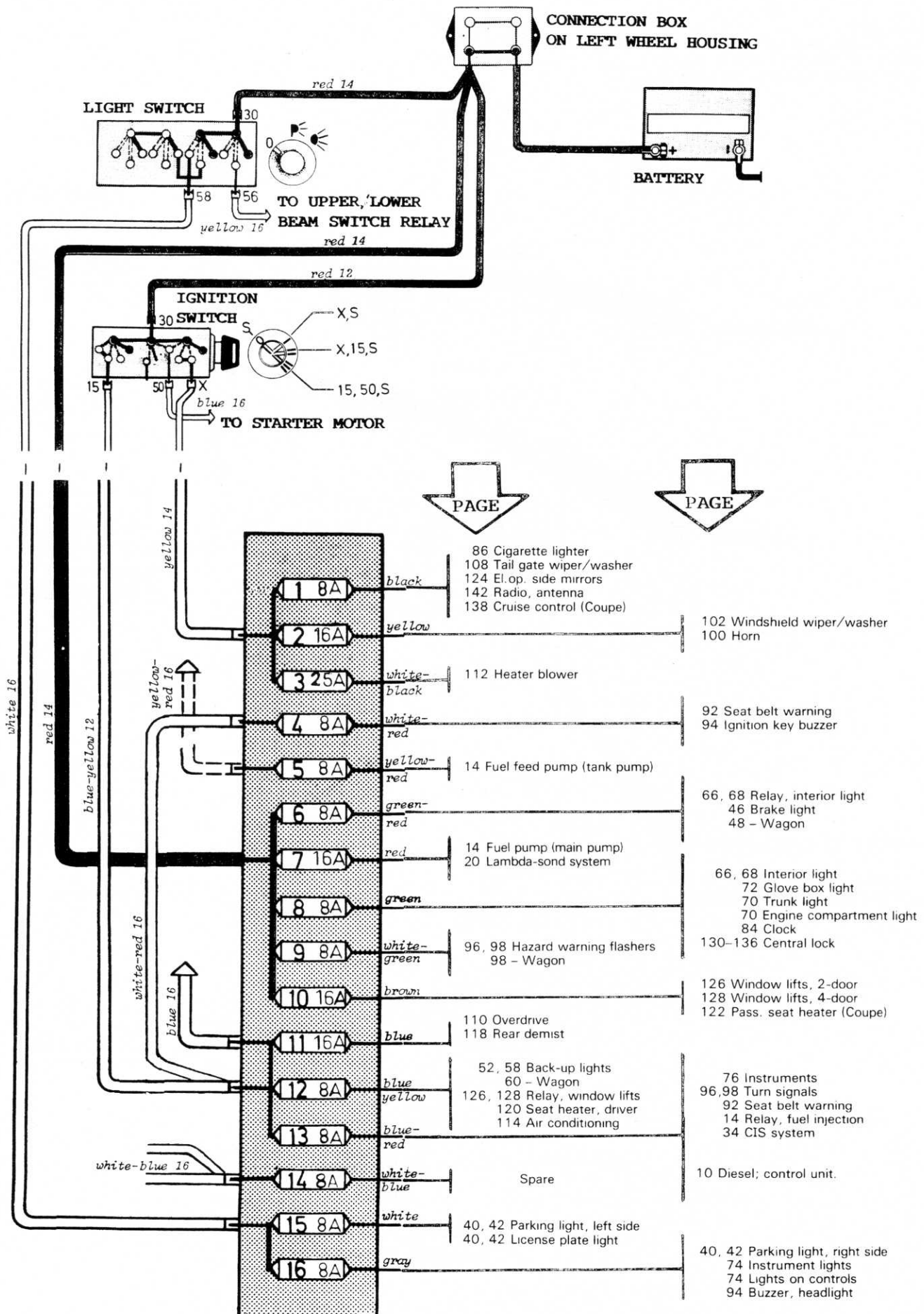
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Master wiring diagram, fold-out sheet	End of manual

Fuses and related circuits DL, GL (GLT except rear lights)



Fuses and related circuits

GLE, Coupe (GLT: rear lights)

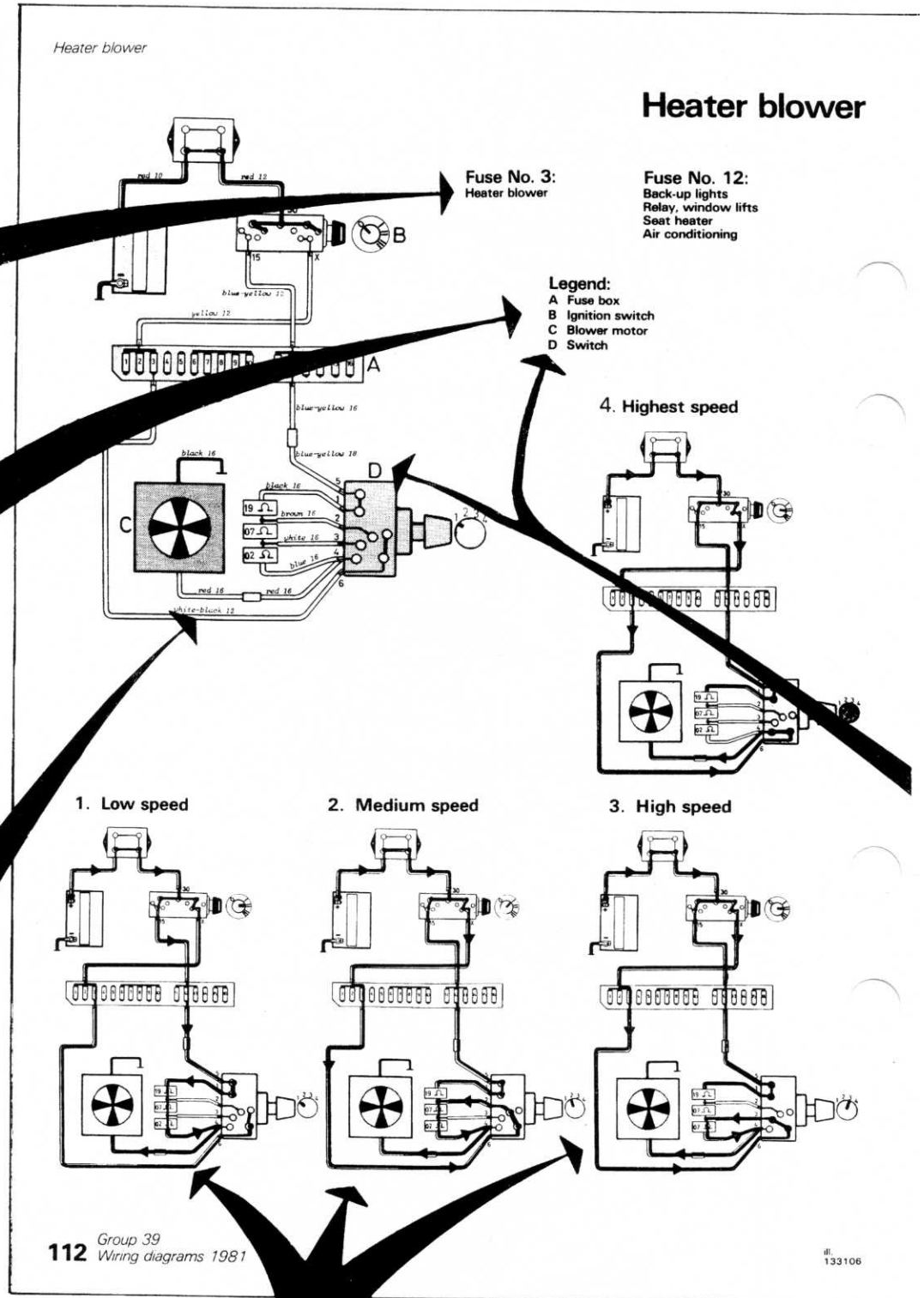


How to use the diagrams

Left page

Illustrates the **electrical circuit**.

De-energized condition is shown at top of page. Energized condition(s) at bottom of page.

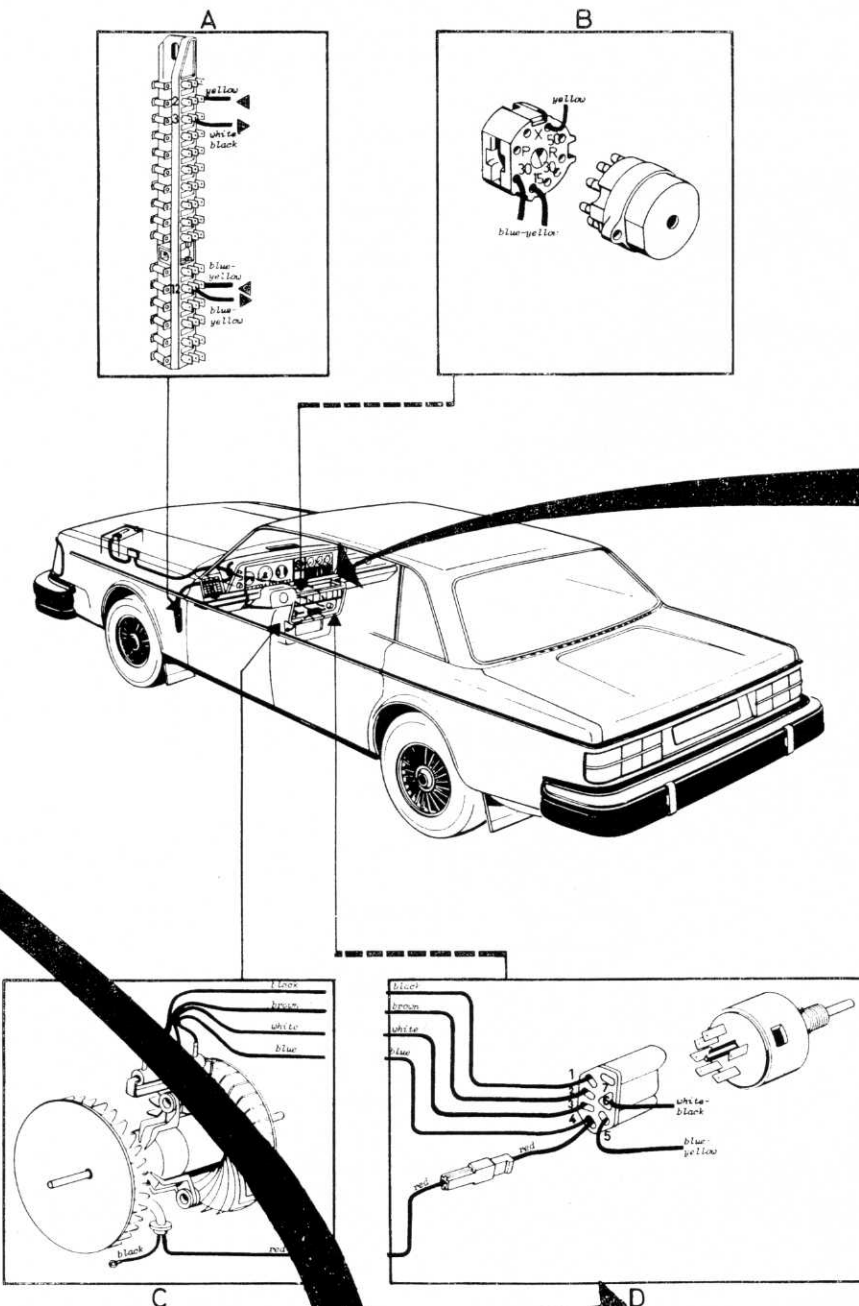


How to use the diagrams

Right page

Illustrates the physical location of the components in the vehicle and the exact routing of the wiring harness. Each component is shown with terminals and connections.

Heater blower



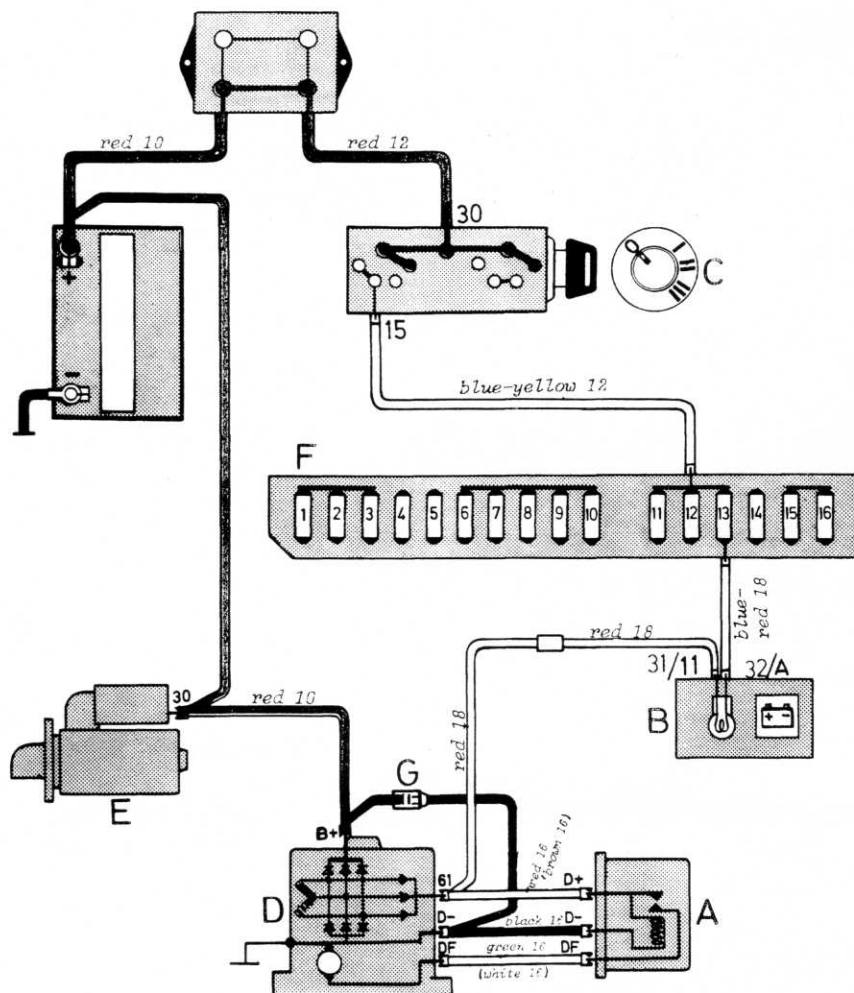
Component location and routing of wiring harness

Component terminals and wire connections

Letters facilitate referencing components on either page

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Wiring diagrams 1981 113

Alternator circuits

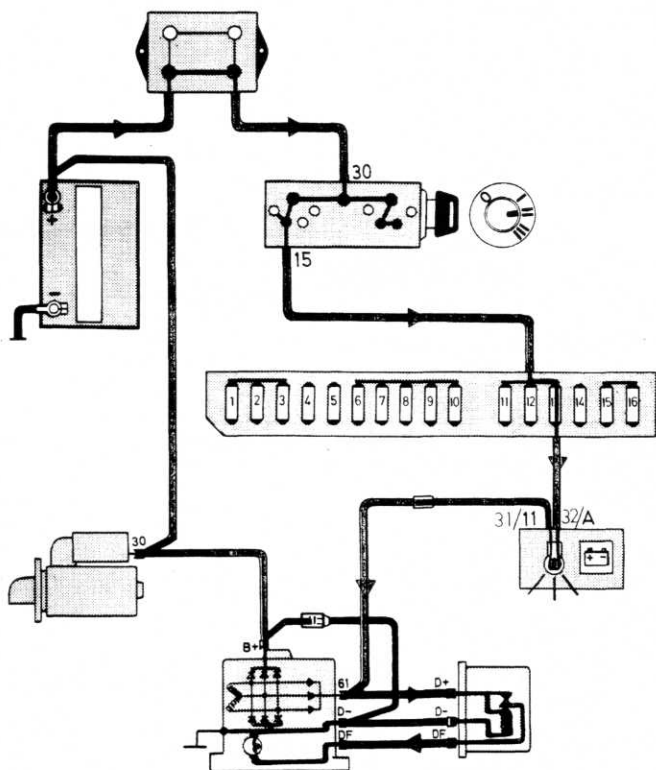


Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)

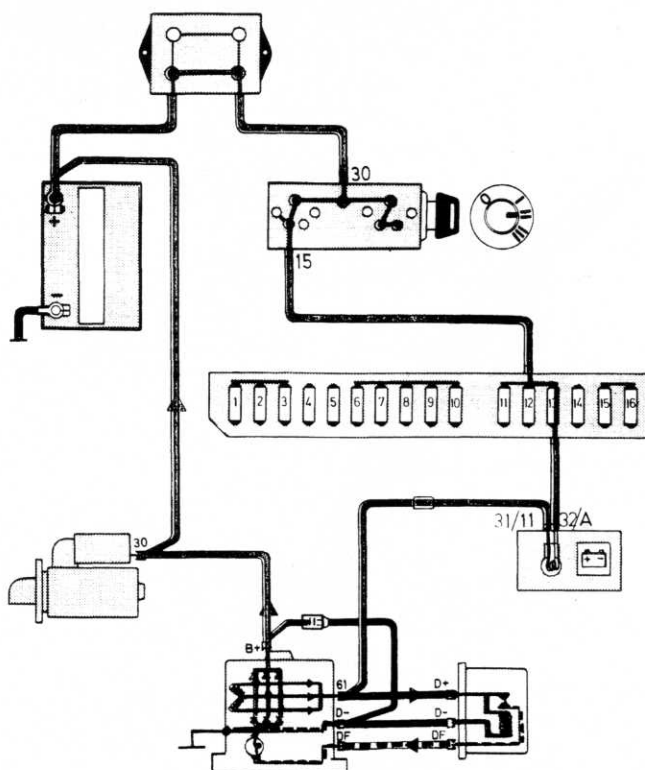
Legend:
A Voltage regulator
B Instrument cluster
C Ignition switch
D Alternator
E Starter motor
F Fuse box
G Capacitor

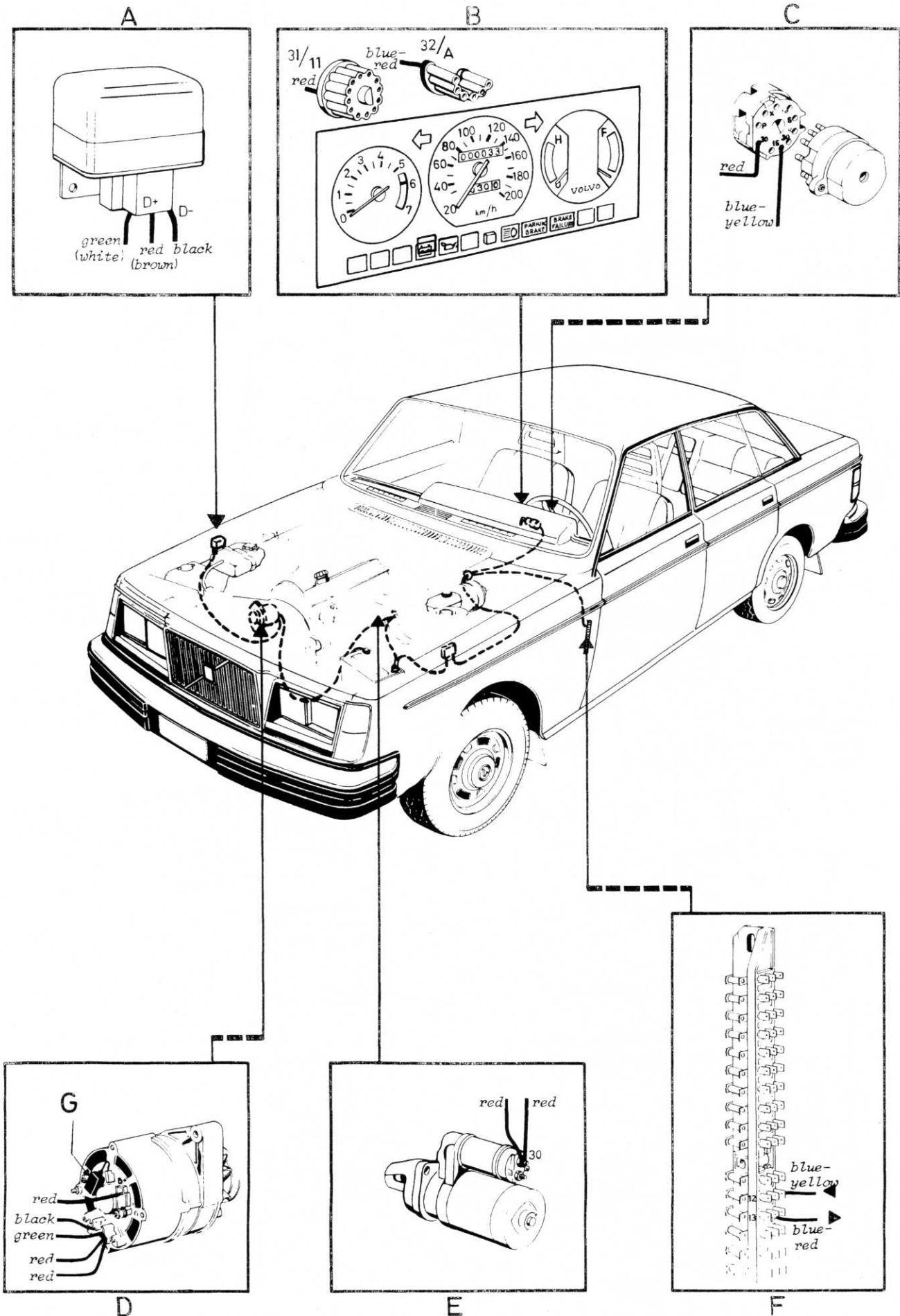
NOTE: Voltage regulator shown in schematic is symbolic of and not actual regulator.
A solid state regulator is presently used.

Ignition ON
(engine not running)

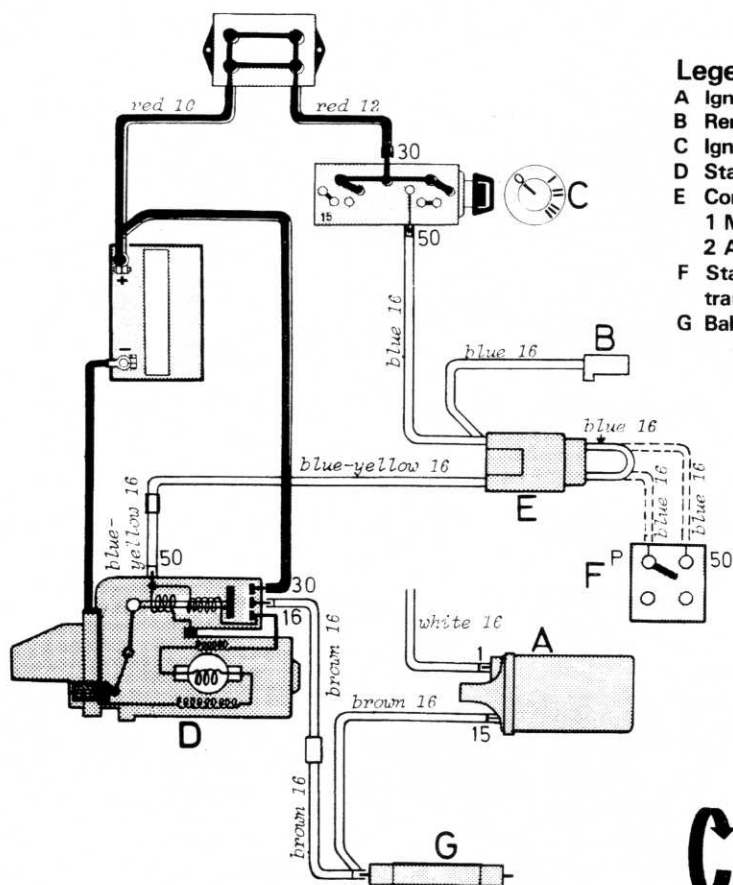


Alternator charging



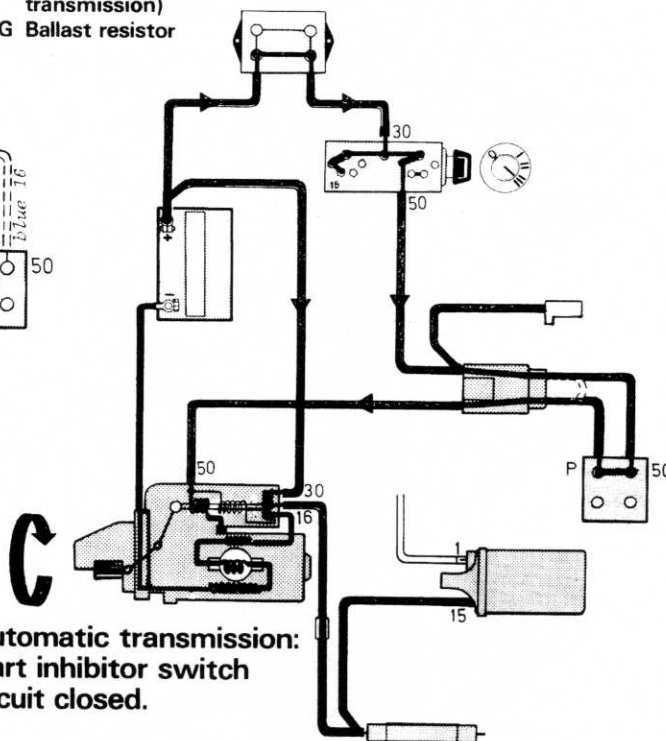


Starting circuits



Legend:

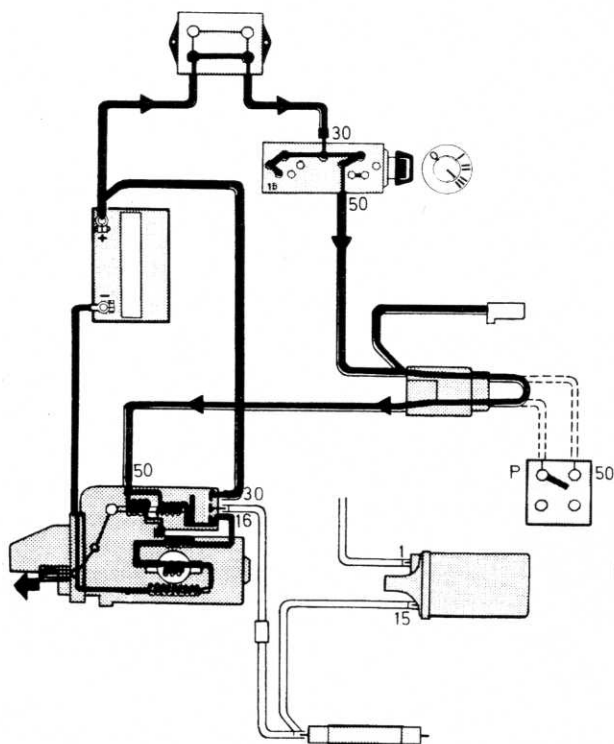
- A Ignition coil
- B Remote starter pick-up point
- C Ignition switch
- D Starter motor
- E Connector
- 1 Manual transmission
- 2 Automatic transmission
- F Start inhibitor switch (automatic transmission)
- G Ballast resistor



Automatic transmission:
start inhibitor switch
circuit closed.

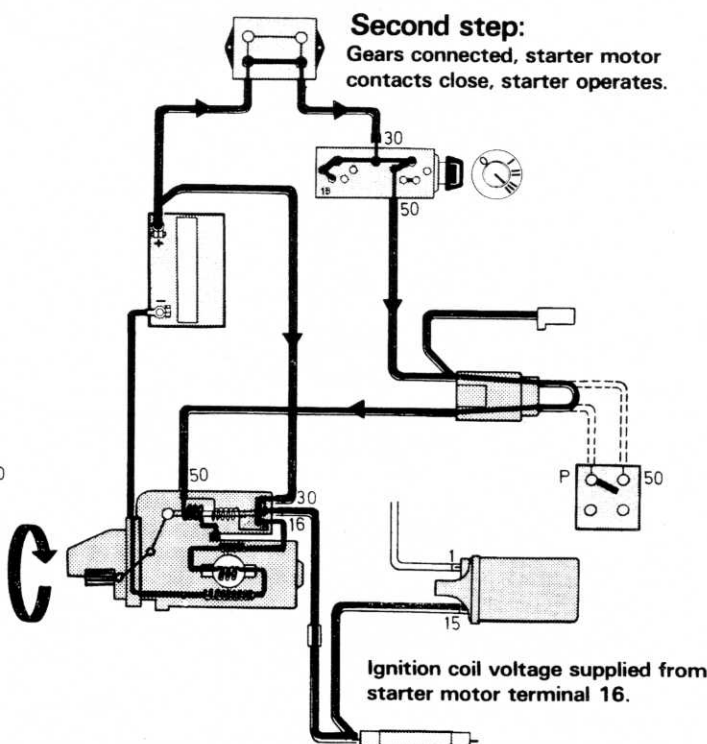
First step:

Solenoid pushes starter motor
gear into contact with ring gear.

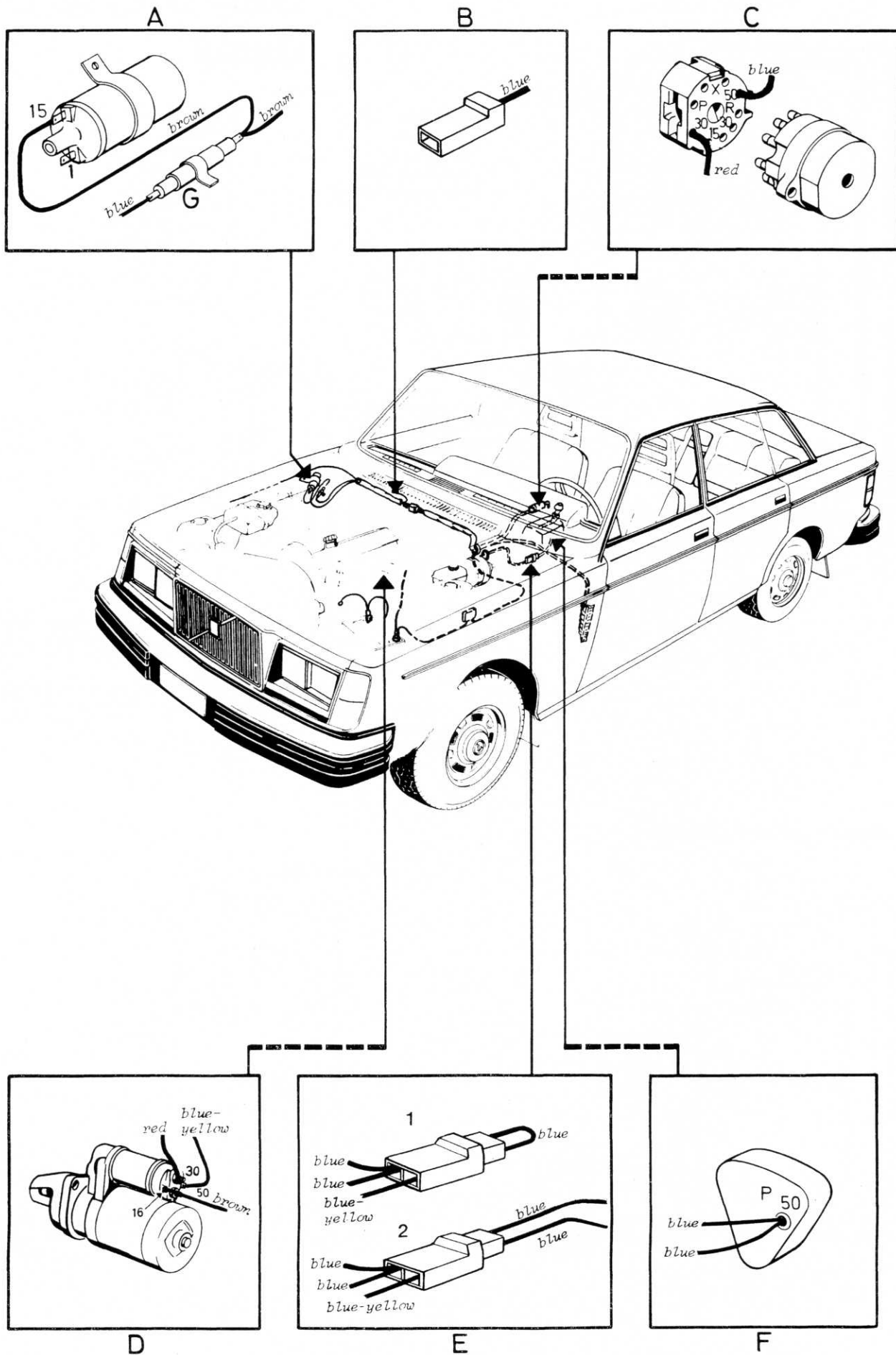


Second step:

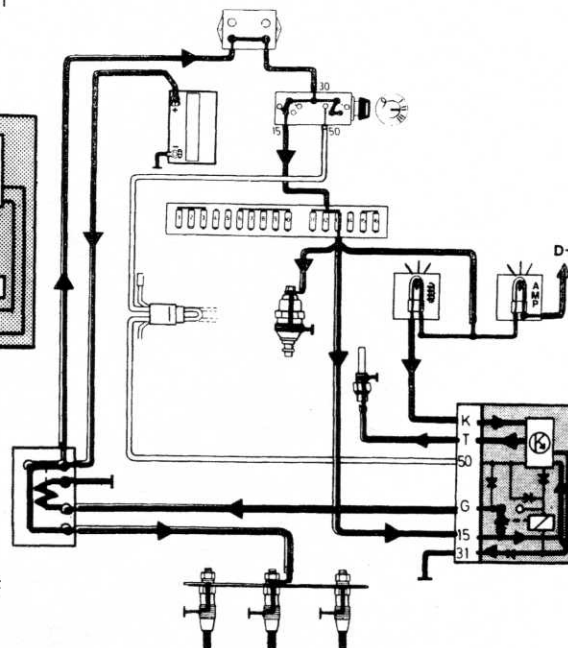
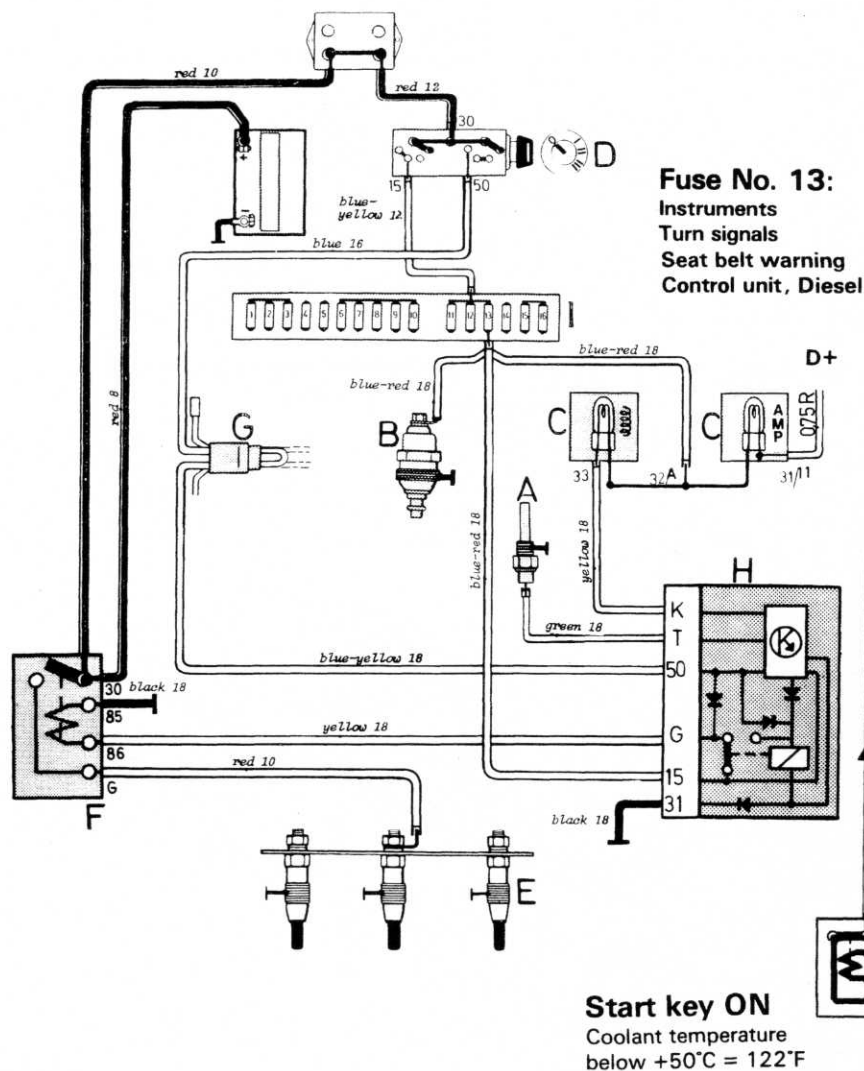
Gears connected, starter motor
contacts close, starter operates.



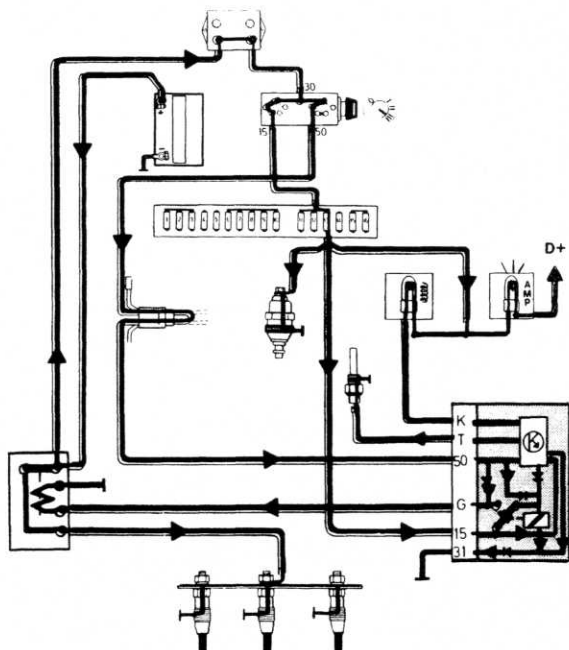
Ignition coil voltage supplied from
starter motor terminal 16.



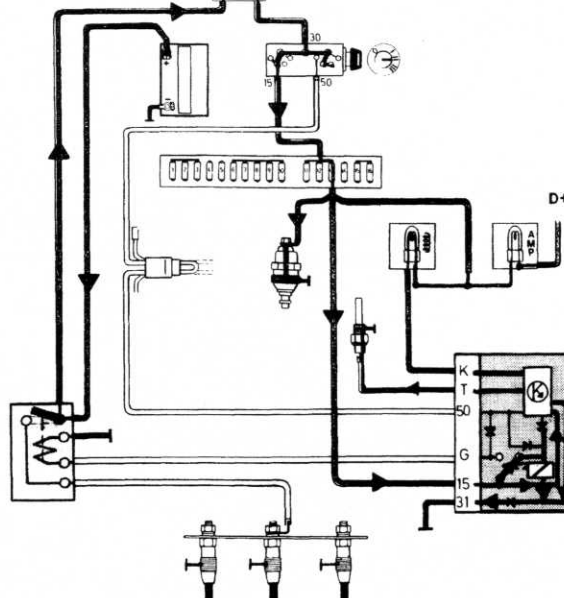
Glow plug system Diesel

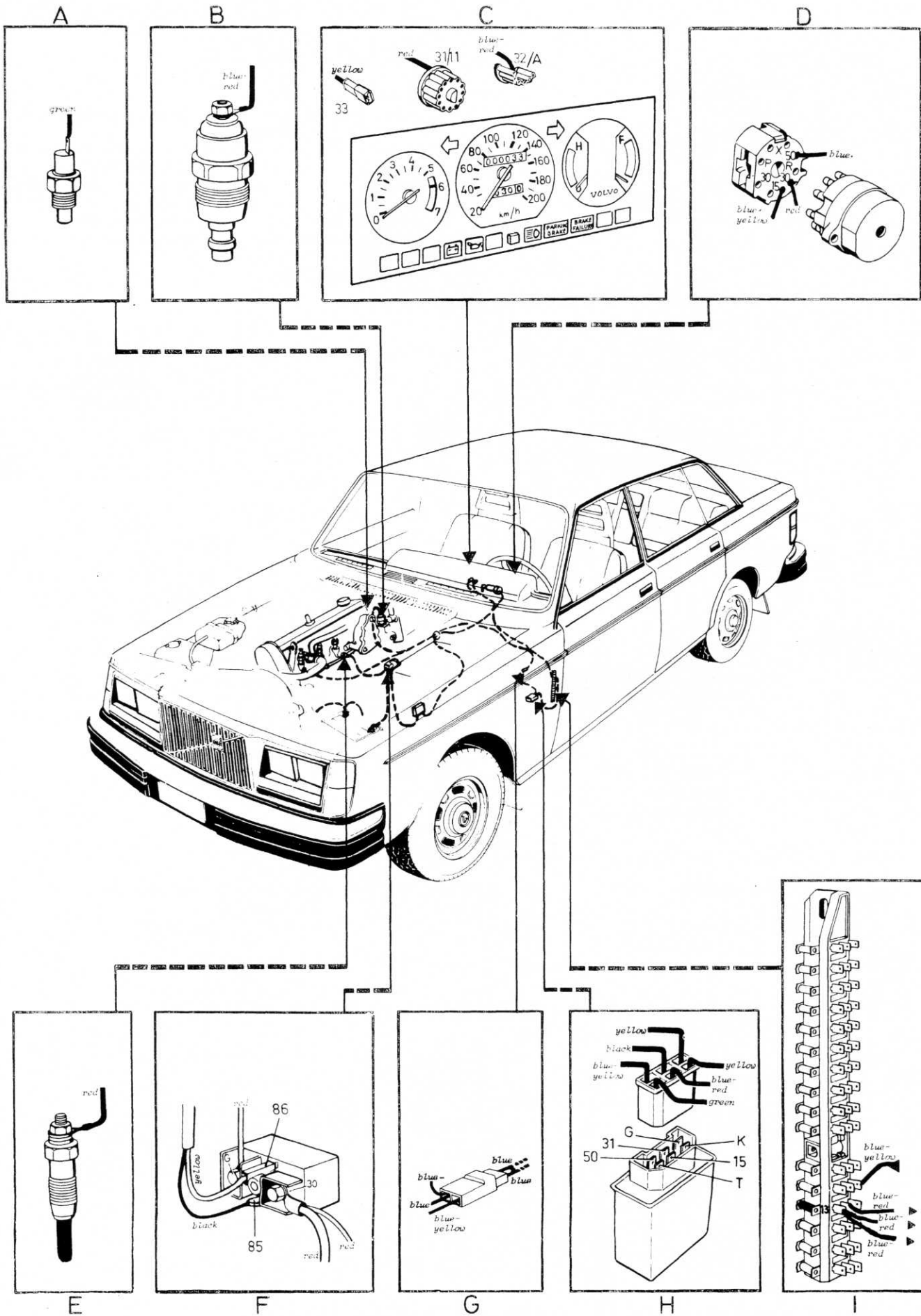


Starter motor operating



Engine running

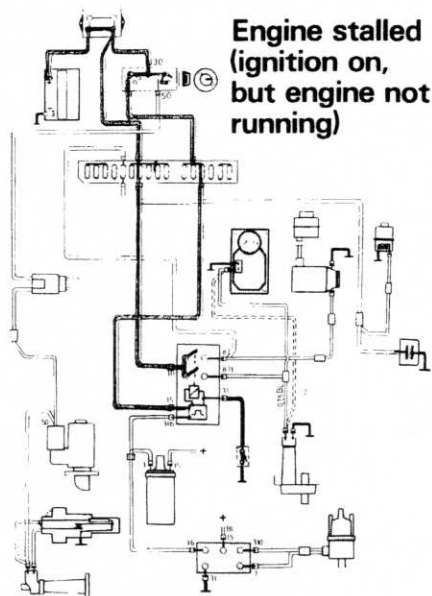
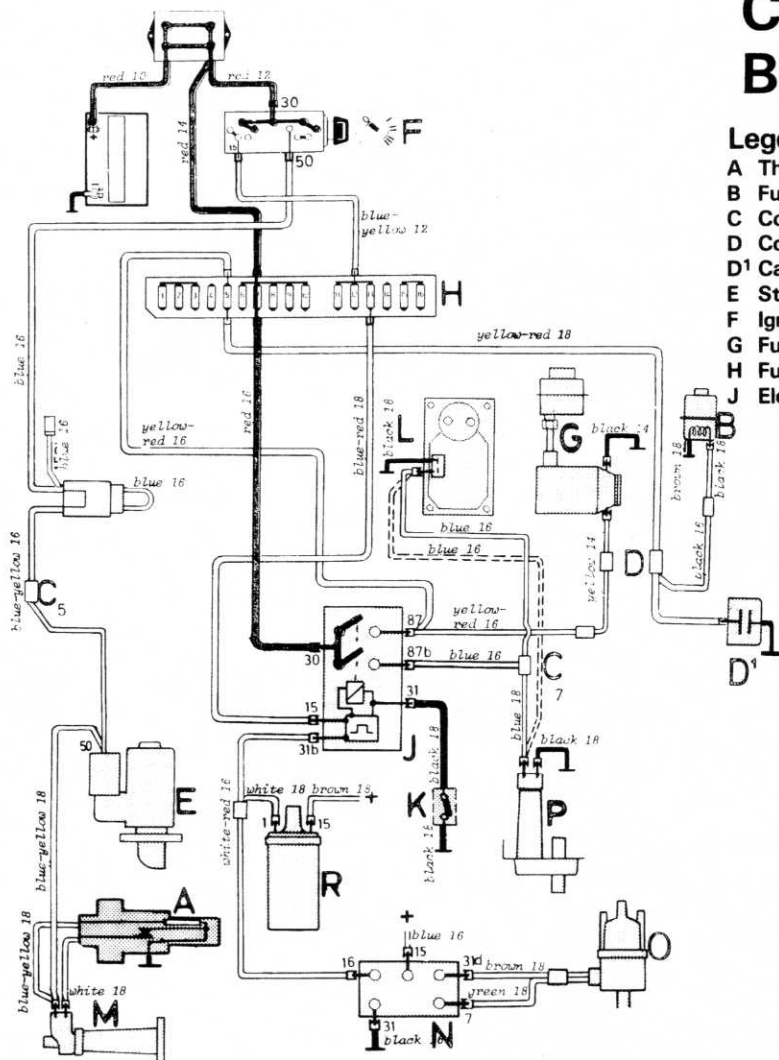




CI fuel injection system B21F, B23E

Legend:

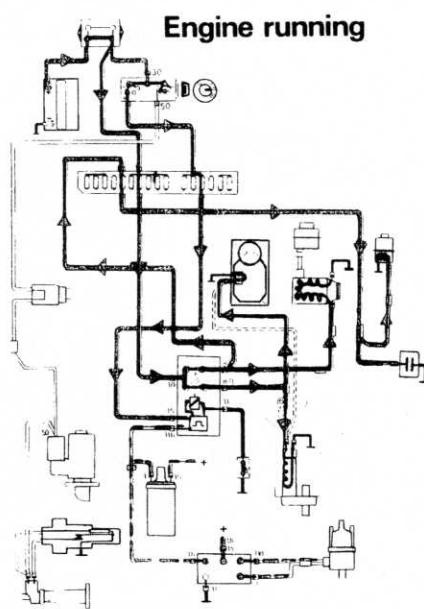
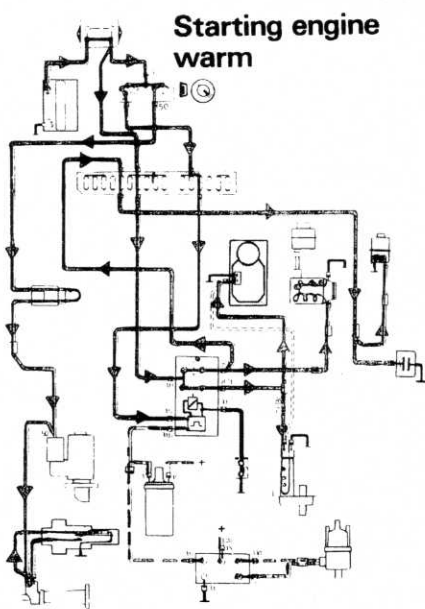
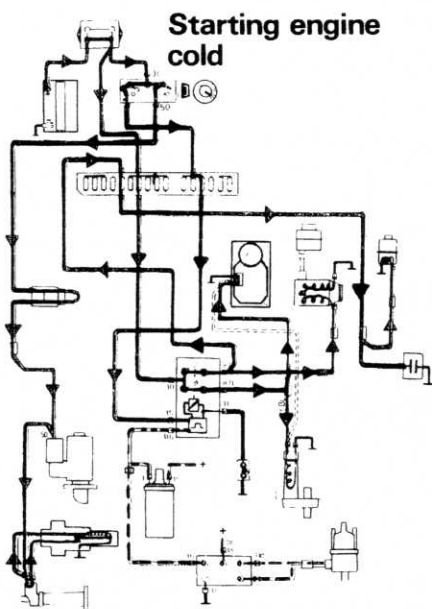
- | | |
|------------------------------|---|
| A Thermal time switch | K Overload protection switch (Turbo only) |
| B Fuel feed pump (tank pump) | L Control pressure regulator |
| C Connector | M Cold start injector |
| D Connector | N Ignition electronic module |
| D ¹ Capacitor | O Distributor |
| E Starter motor | P Auxiliary air valve |
| F Ignition switch | R Ignition coil |
| G Fuel pump (main pump) | |
| H Fuse box | |
| J Electronic pump relay | |

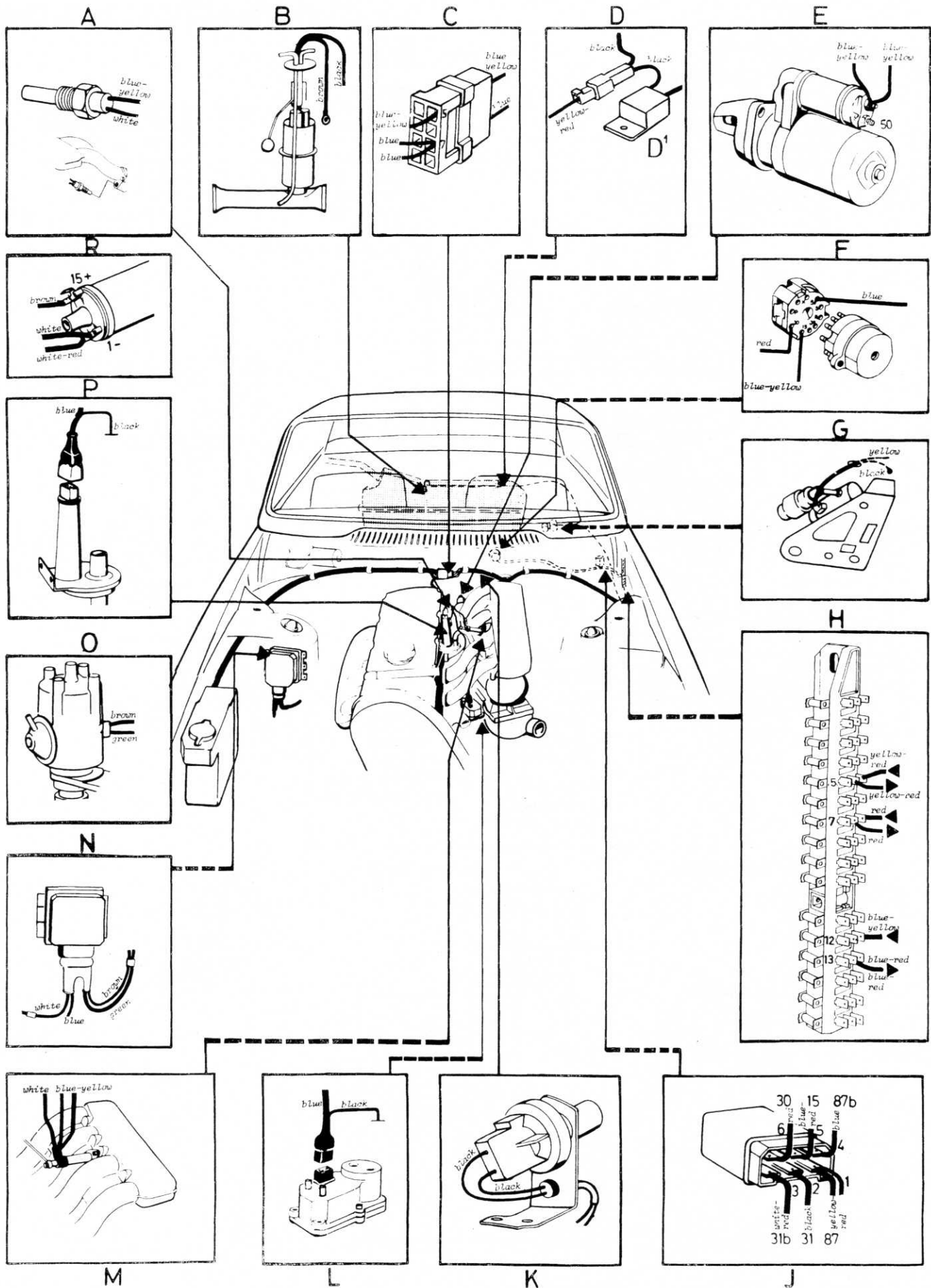


Fuse No. 5:
Fuel feed pump
(tank pump)

Fuse No. 7:
Fuel pump
(main pump)

Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection

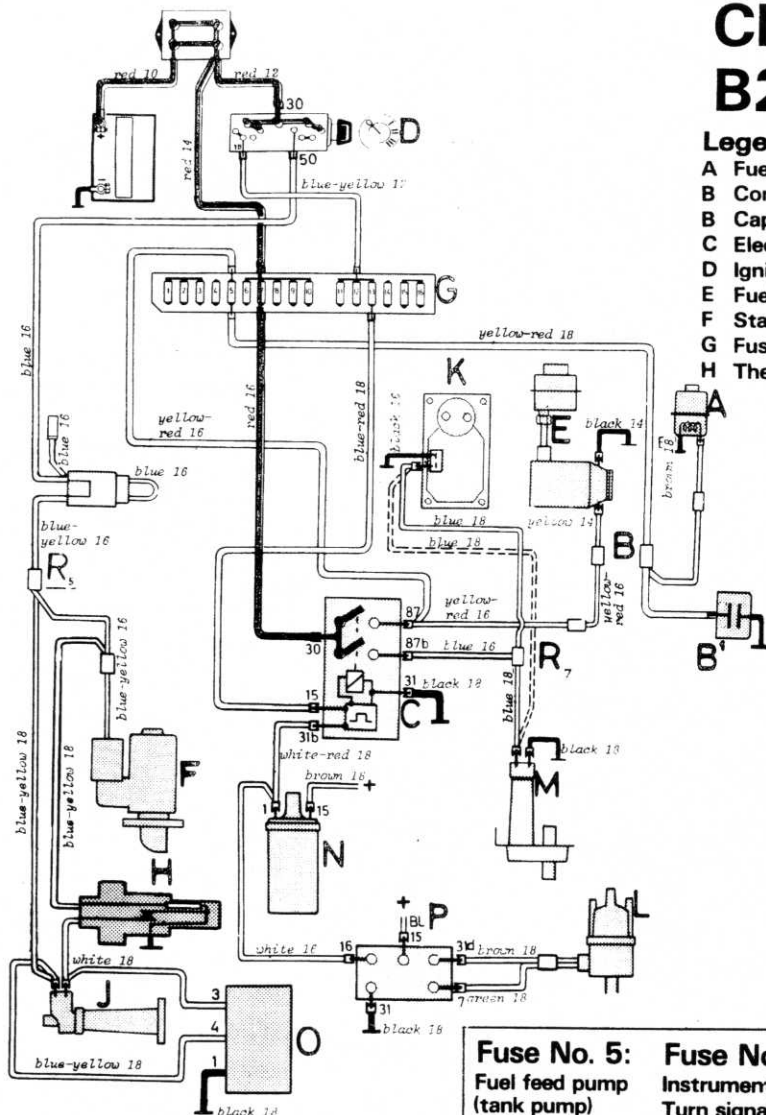




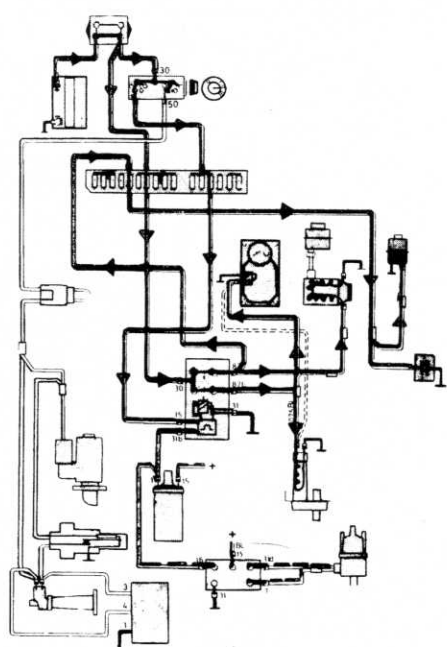
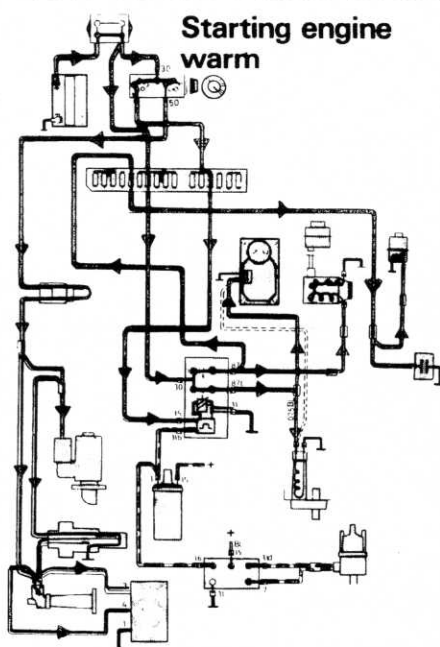
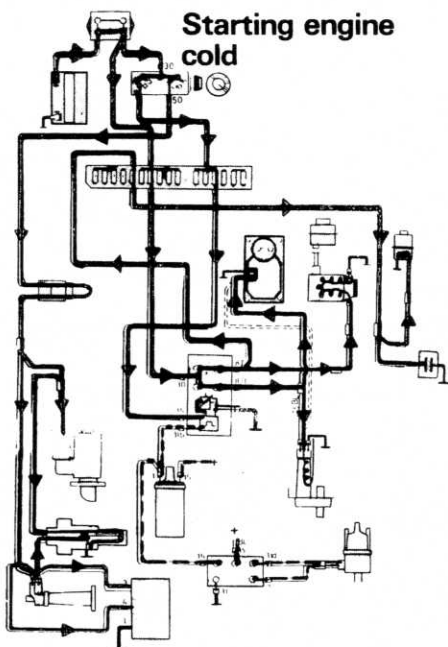
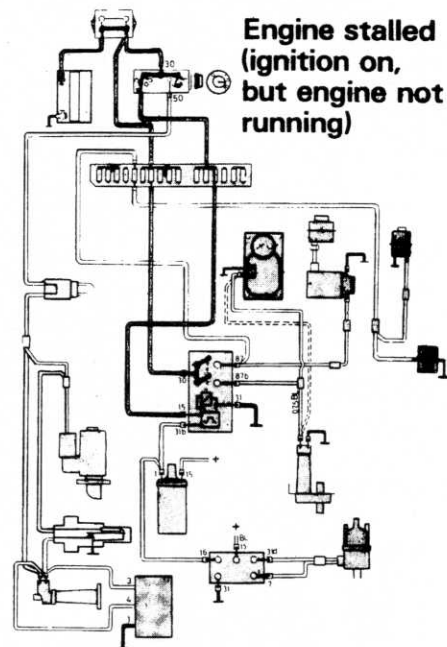
CI fuel injection system B28F

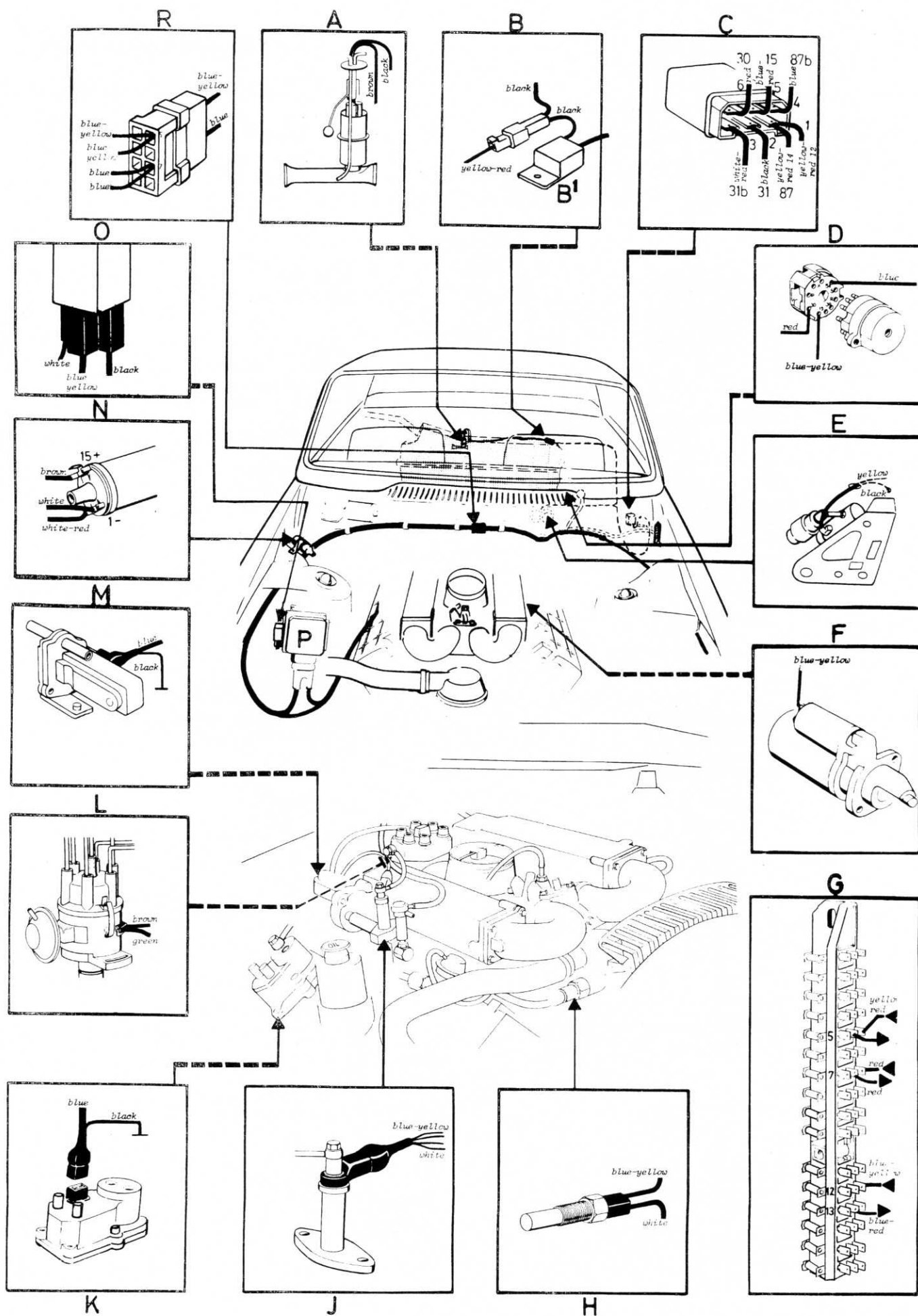
Legend:

- | | |
|------------------------------|------------------------------|
| A Fuel feed pump (tank pump) | J Cold start injector |
| B Connector | K Control pressure regulator |
| B Capacitor | L Distributor |
| C Electronic pump relay | M Auxiliary air valve |
| D Ignition switch | N Ignition coil |
| E Fuel pump (main pump) | O Impulse relay |
| F Starter motor | P Ignition electronic module |
| G Fuse box | R Connector |
| H Thermal time switch | |



- | | |
|---|--|
| Fuse No. 5:
Fuel feed pump
(tank pump) | Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection |
| Fuse No. 7:
Fuel pump
(main pump) | |

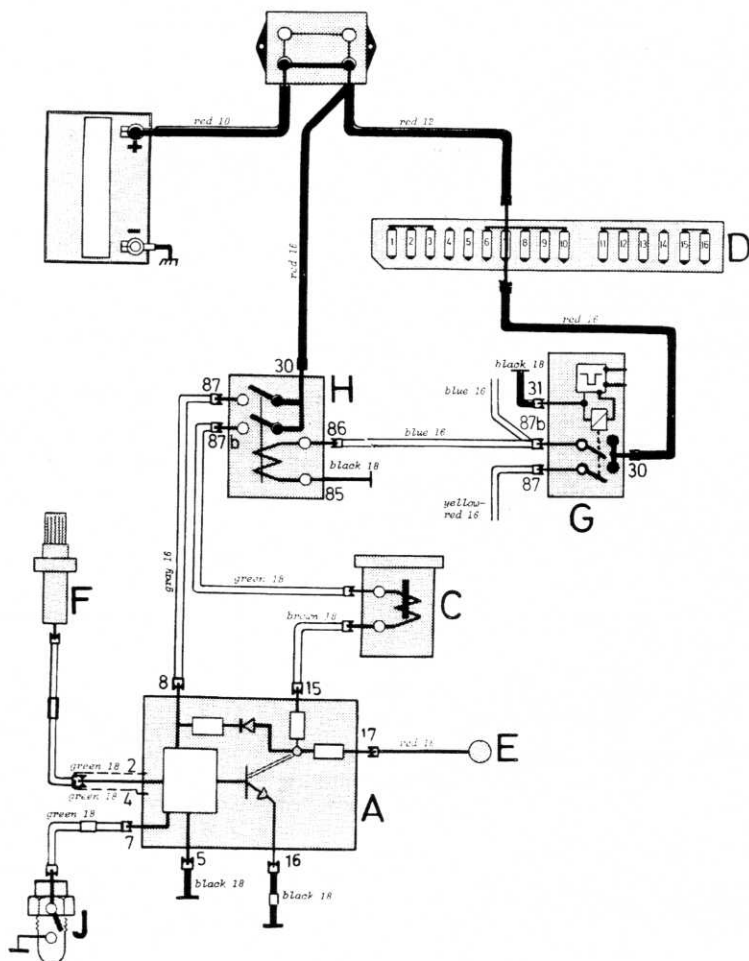




Oxygen sensor feedback system (Lambda-sond) B21F

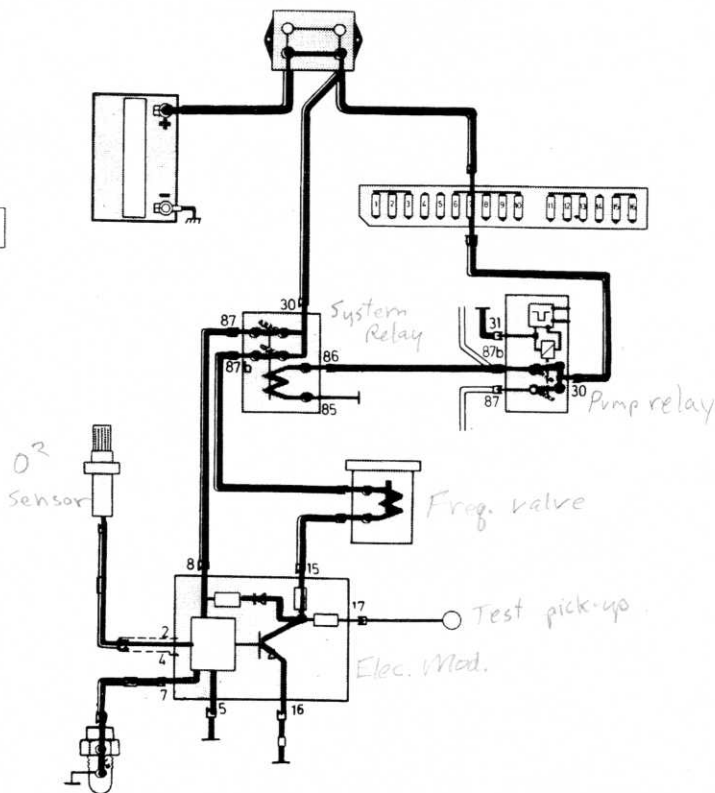
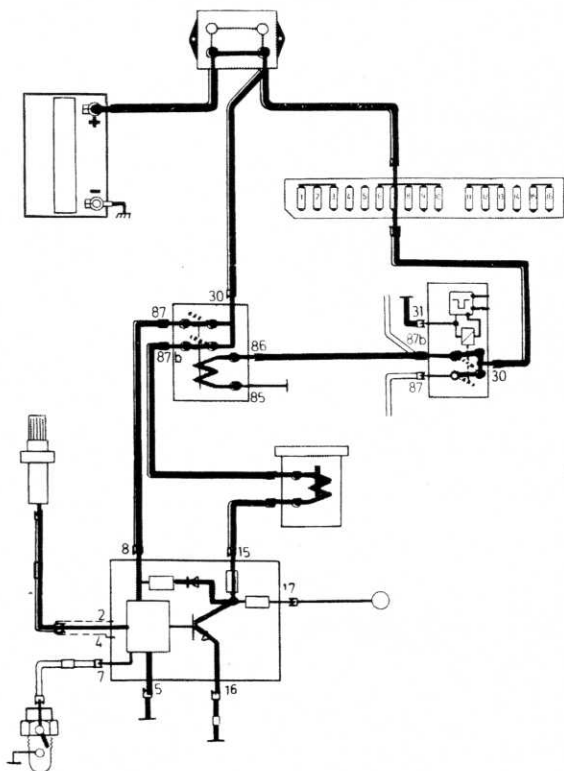
Fuse No. 7:
Fuel pump (main pump)

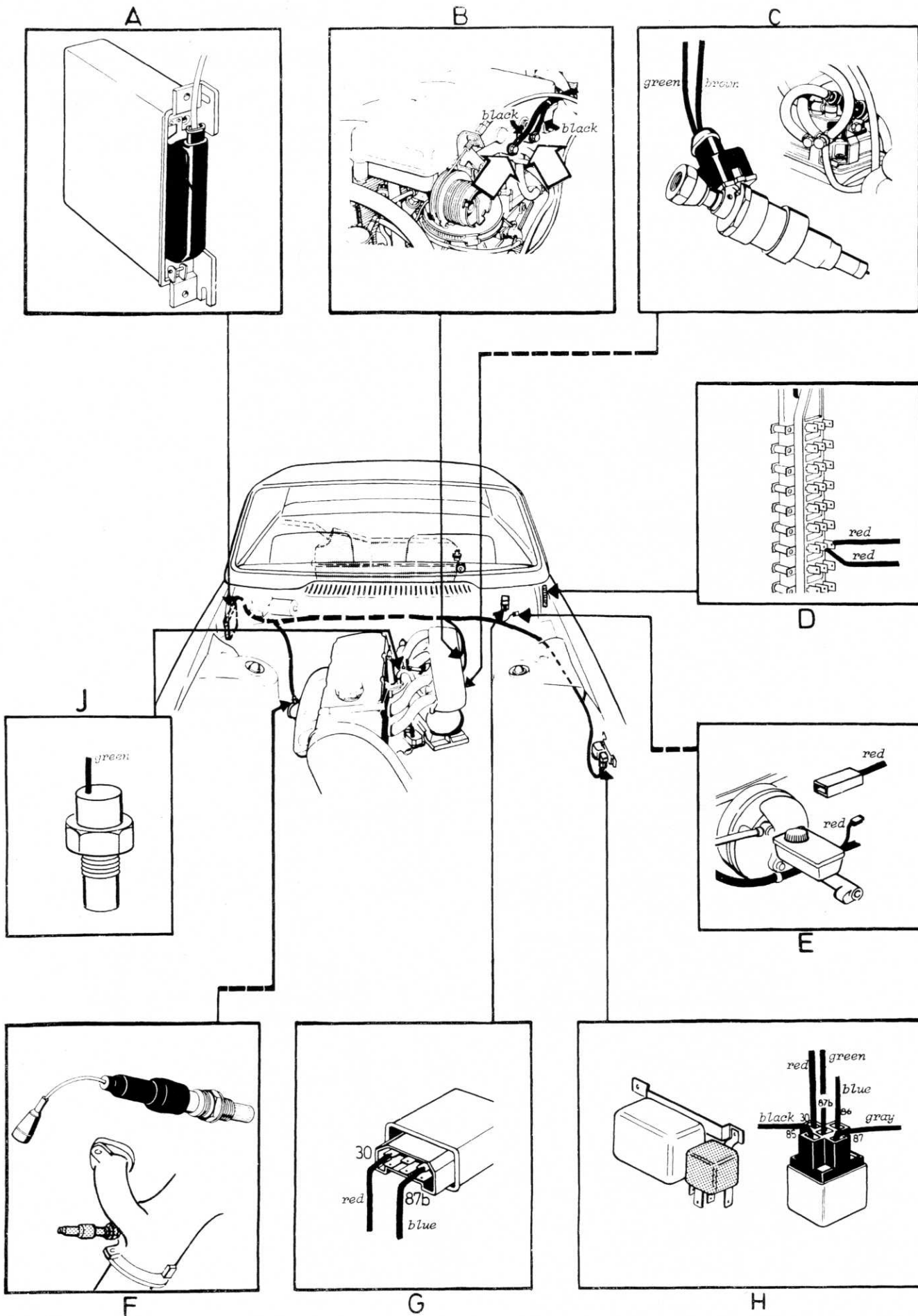
Legend:
A Electronic module
B Ground points
C Frequency valve
D Fuse box
E Test instrument pick-up point
F Oxygen sensor
G Electronic pump relay
H System relay



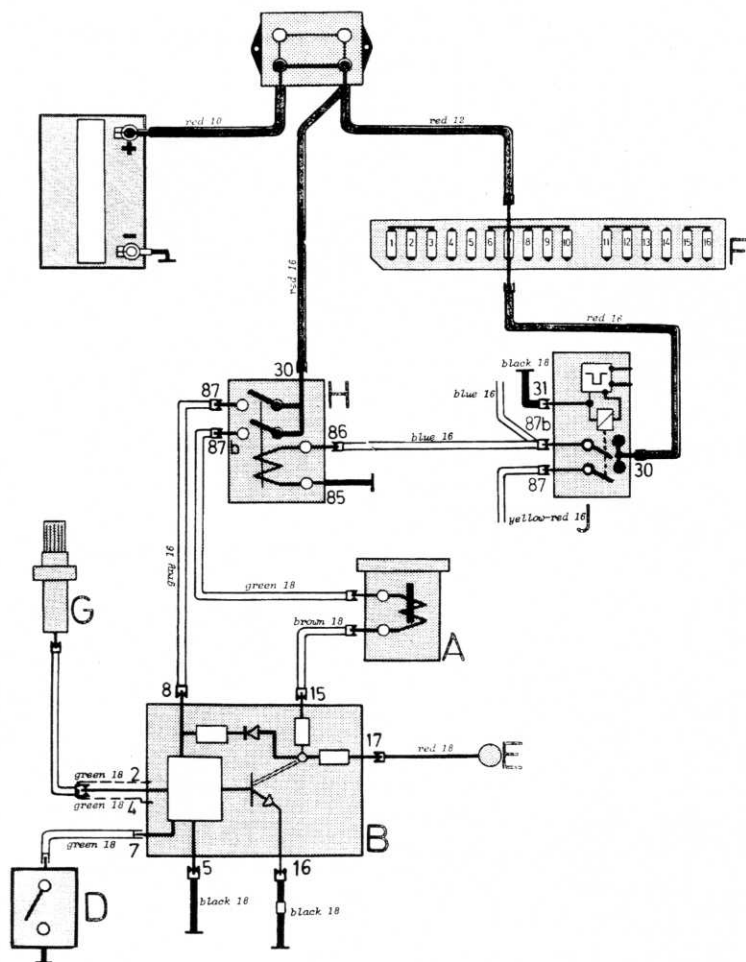
Warm engine.
System operates on
duty cycle, regulating
air/fuel mixture.

Cold engine.
Circuit through thermal
switch is closed = system
operates on fixed cycle and
provides richer air/fuel
mixture.





Oxygen sensor feedback system (Lambda-sond) B21F-Turbo



Fuse No. 7:
Fuel pump (main pump)

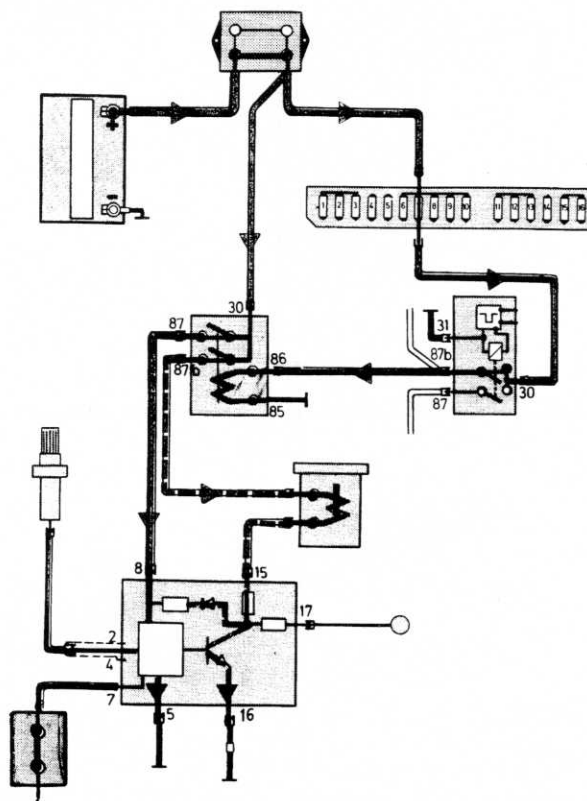
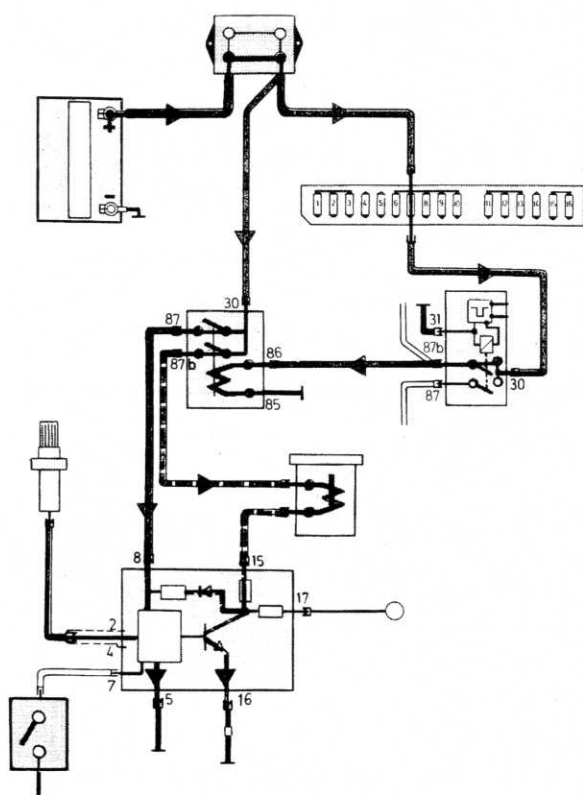
Legend:

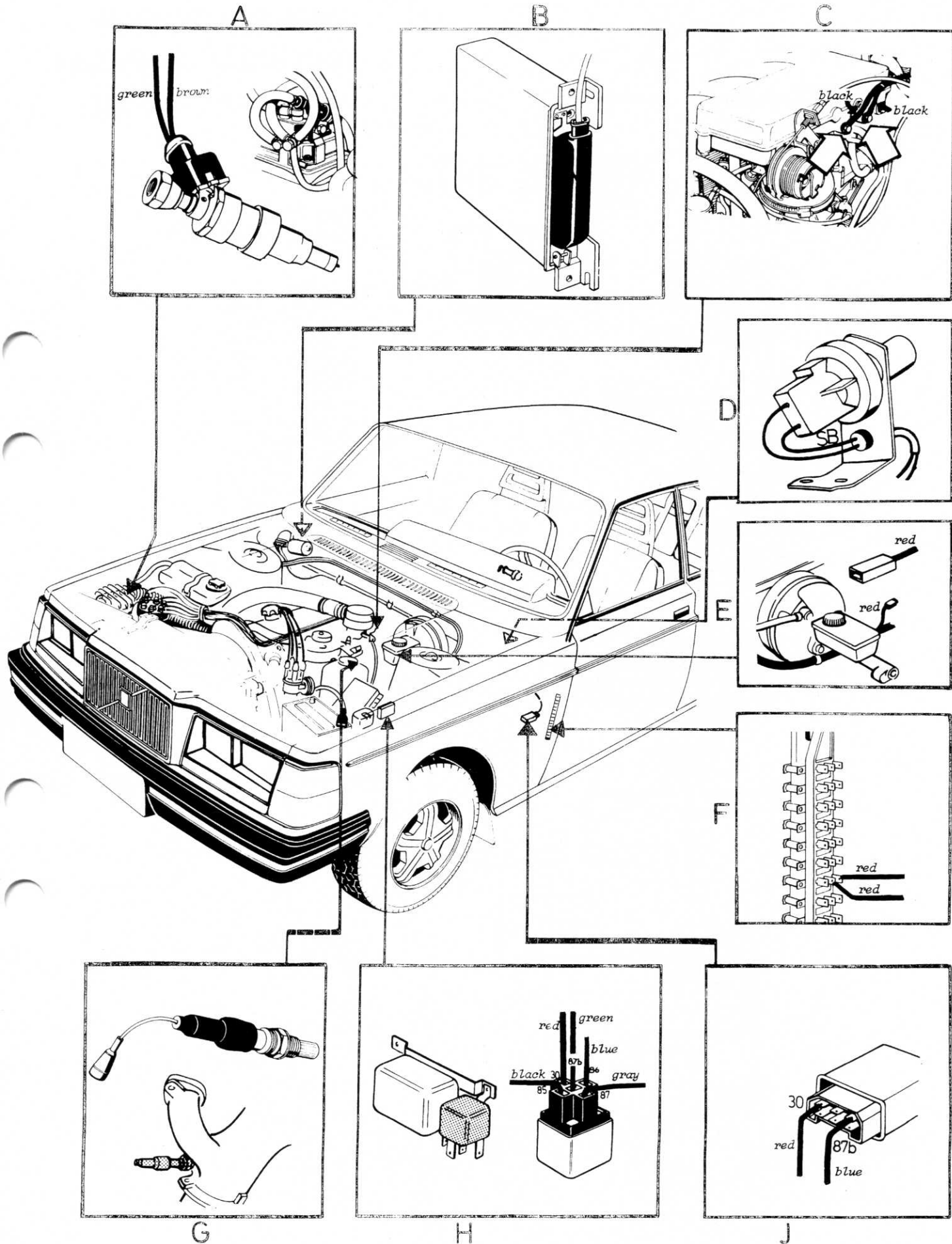
- A Frequency valve
- B Electronic module
- C Ground points
- D Pressure switch
- E Test instrument pick-up point
- F Fuse box
- G Oxygen sensor
- H System relay
- J Electronic pump relay

Acceleration.

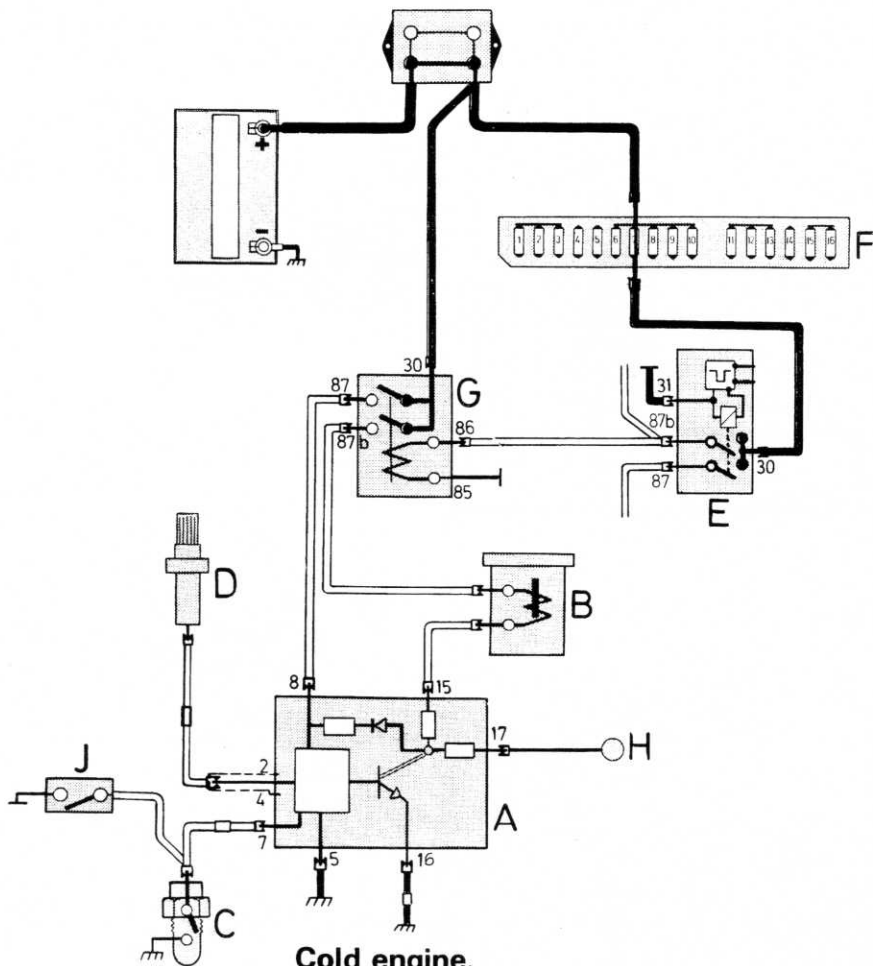
Increasing compressor discharge pressure causes pressure switch to ground terminal 7 of Electronic module. This will cause Lambda system to operate on special fixed cycle and provide enrichment.

Normal driving.





Oxygen sensor feedback system (Lambda-sond) B28F



Cold engine.

Circuit through thermal switch is closed = system operates on fixed cycle and provides richer air / fuel mixture.

Fuse No. 7:

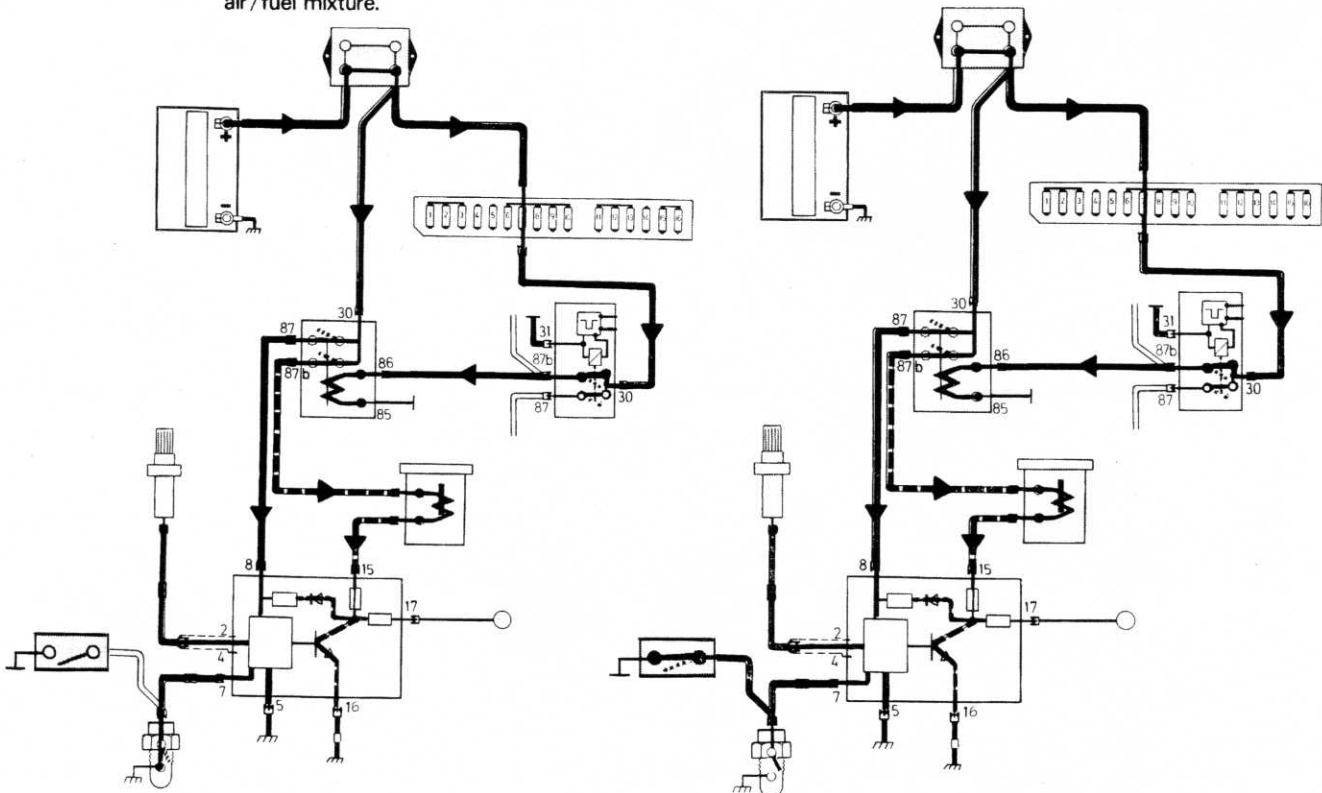
Fuel pump (main pump)

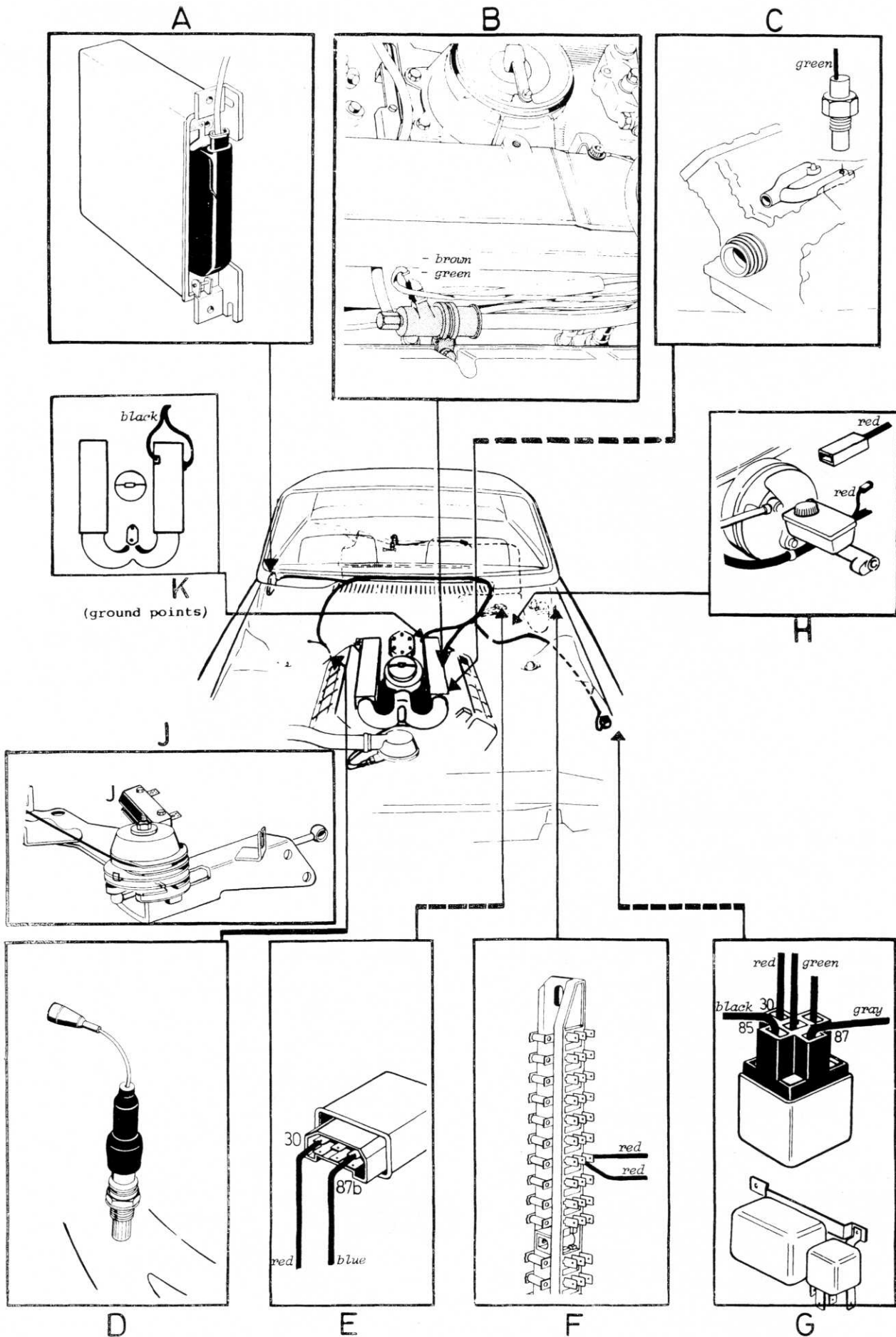
Legend:

- A Electronic module
- B Frequency valve
- C Thermal switch
- D Oxygen sensor
- E Electronic pump relay
- F Fuse box
- G System relay
- H Test instrument pick-up point
- J Micro switch (for enrichment at maximum acceleration)
- K Ground points

Maximum acceleration.

Circuit through micro switch is closed = system operates on fixed cycle and provides richer air/fuel mixture.

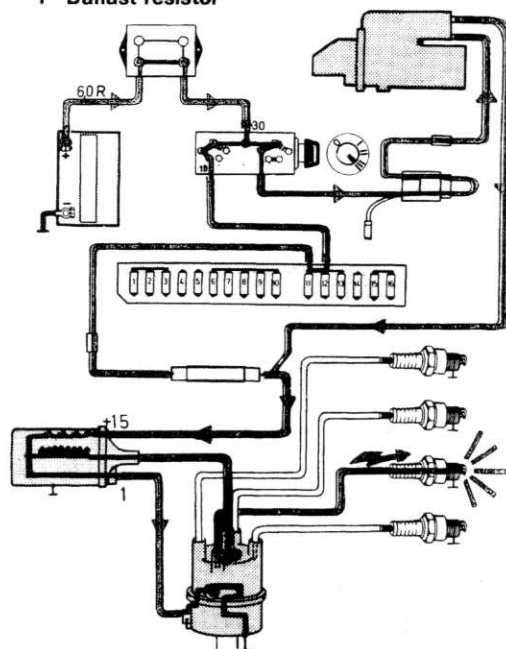
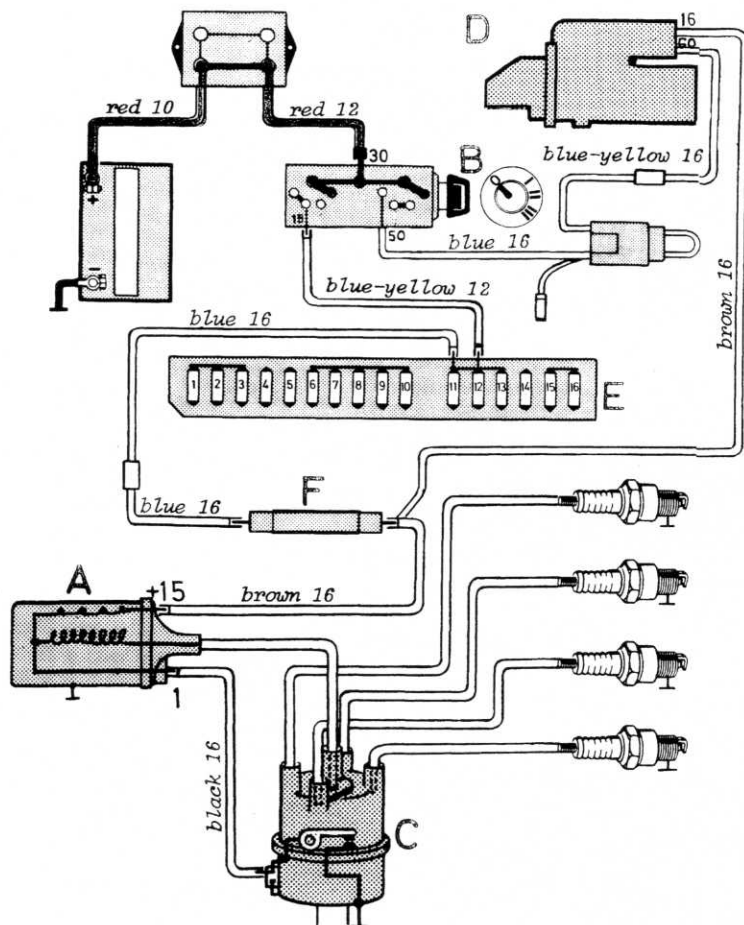




Ignition system with breaker points, B21A

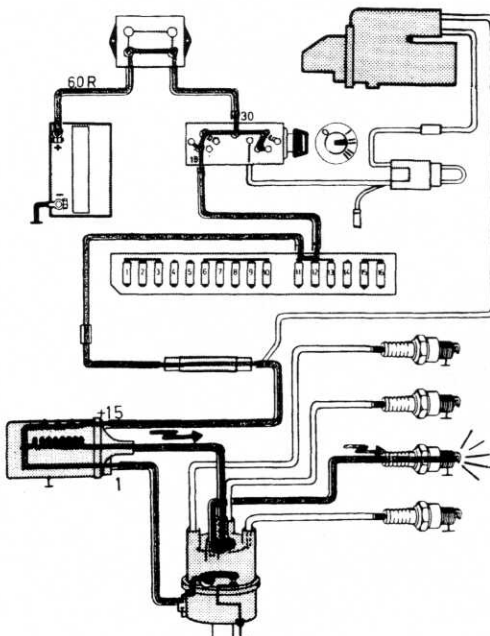
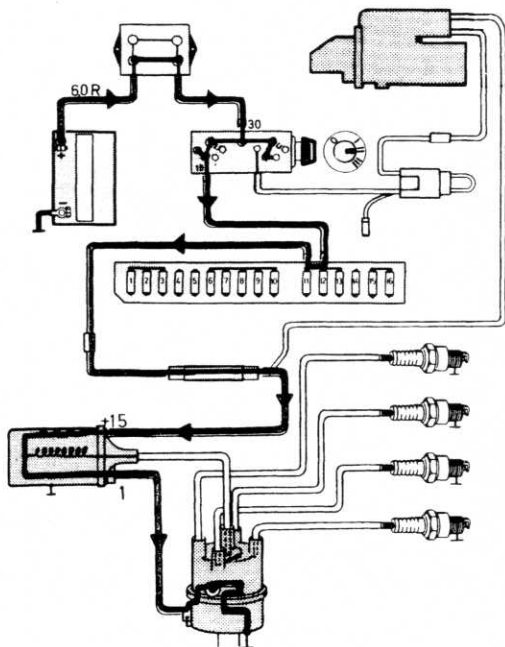
Legend:

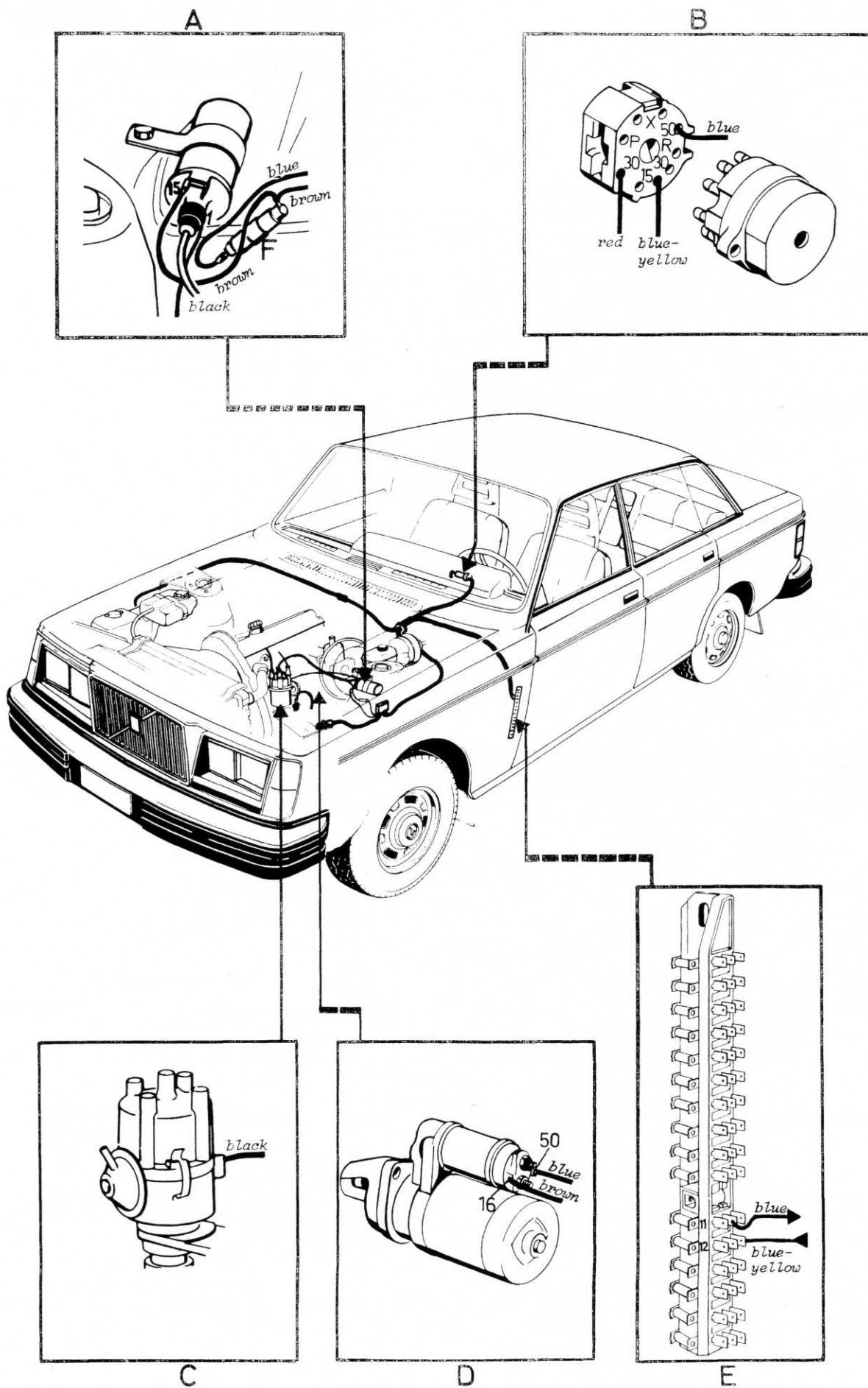
- A Ignition coil
- B Ignition switch
- C Distributor
- D Starter motor
- E Fuse box
- F Ballast resistor



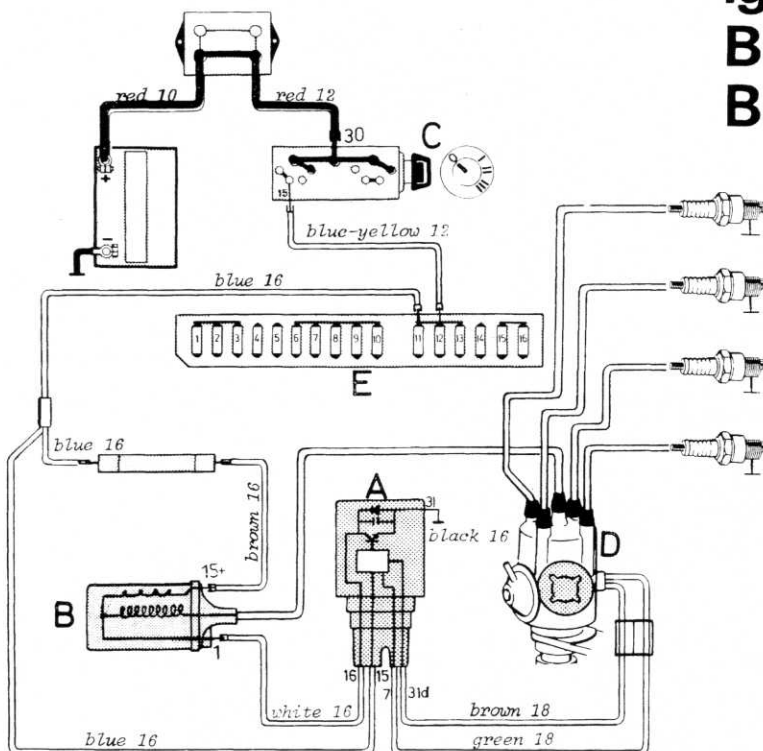
Current flows through breaker points
and ignition coil.
Ignition coil is energized.

Breaker points open, ignition coil
discharges (sparks) through secondary
winding.





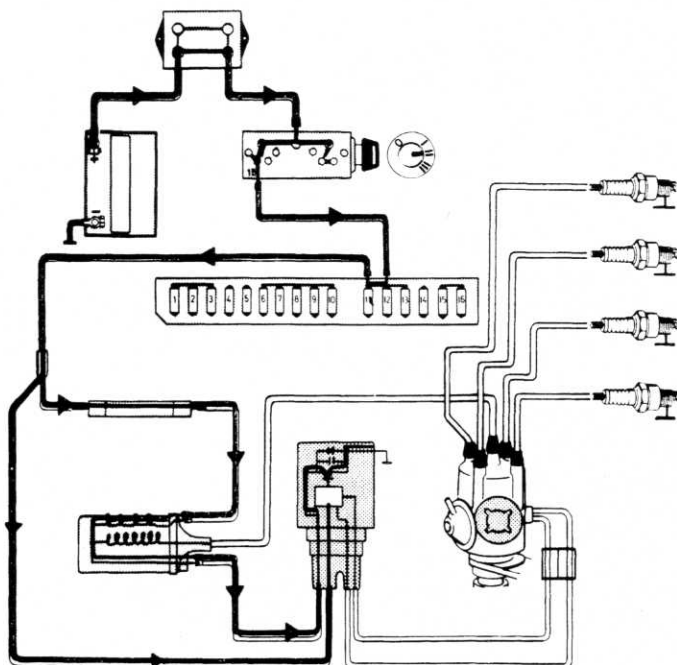
Breakerless electronic ignition system B21F and B21F-Turbo B23E/Canada



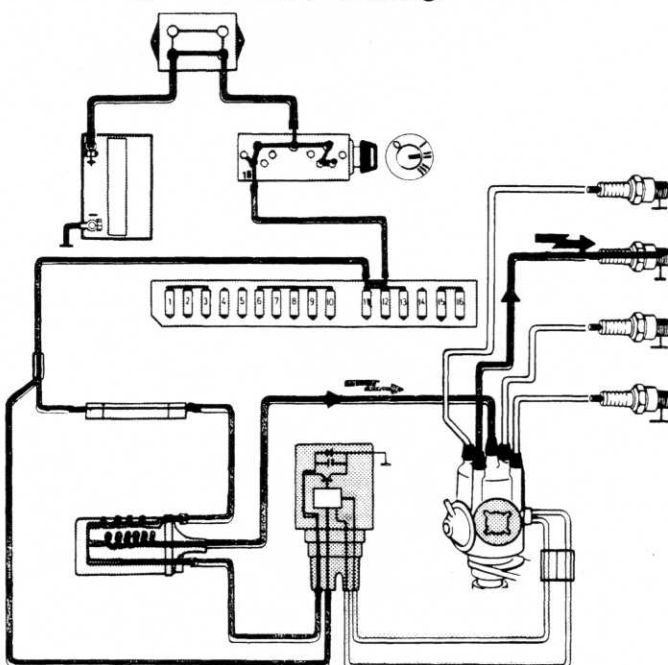
Legend:

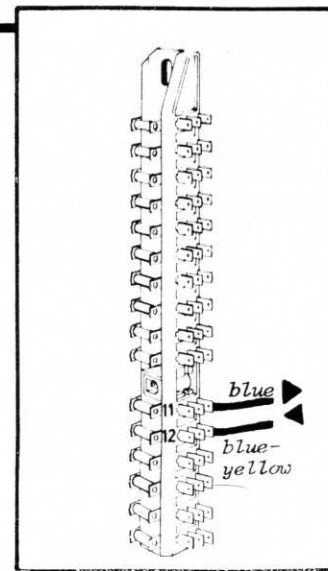
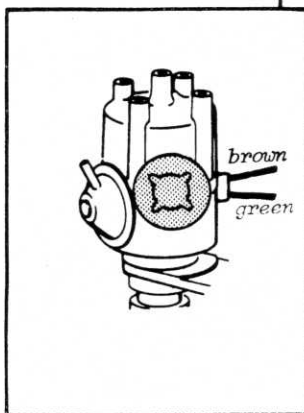
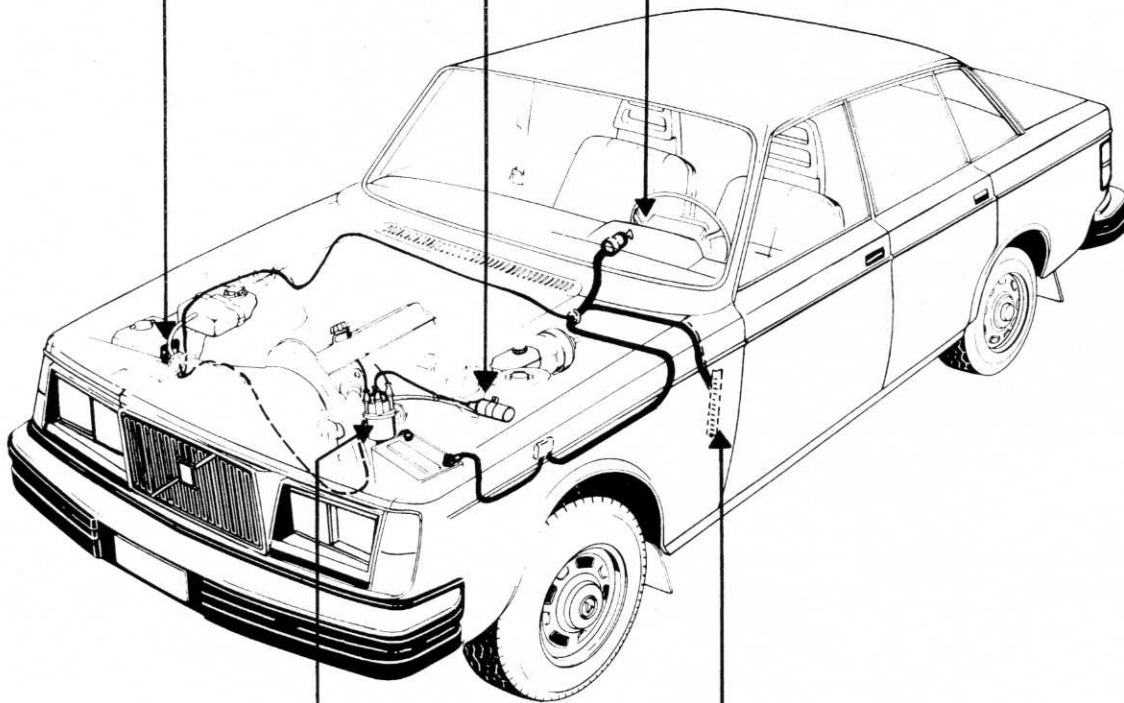
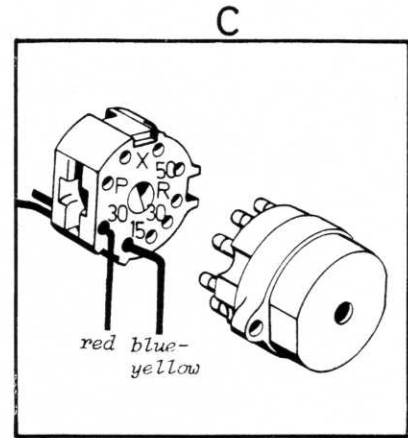
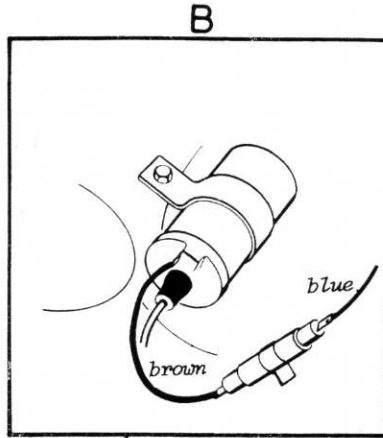
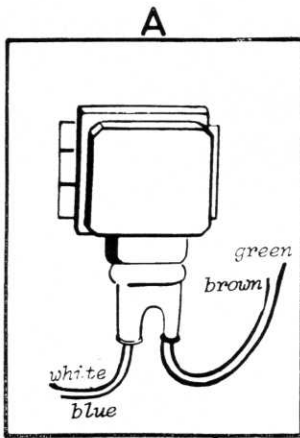
- A Ignition electronic module
- B Ignition coil with ballast resistor
- C Ignition switch
- D Distributor w. impulse sender
- E Fuse box

Current flows through electronic module, ignition coil primary winding is energized.

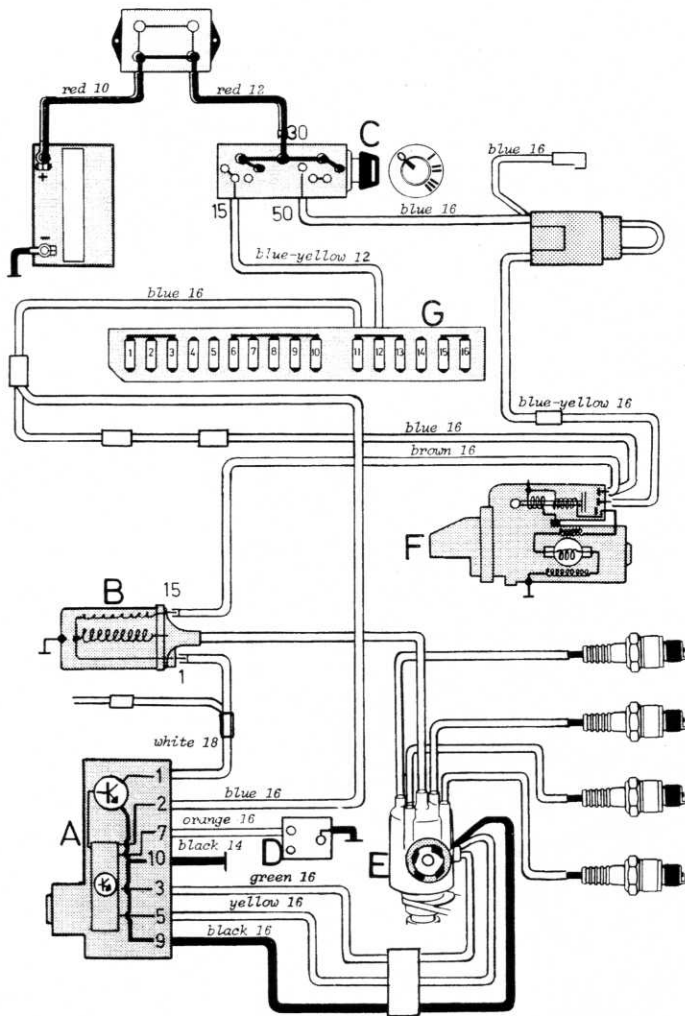


Electronic module interrupts current flow, ignition coil discharges (sparks) through secondary winding.





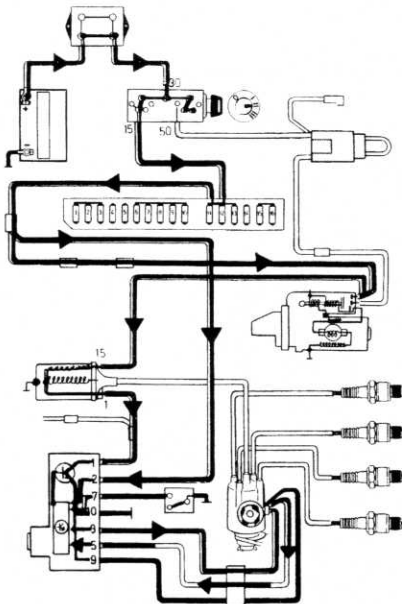
Computer controlled ignition system B21F-MPG



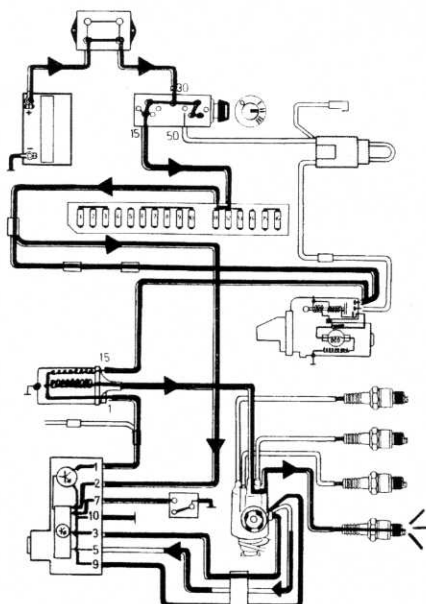
Legend:

- A Electronic Control Unit
- B Ignition coil
- C Ignition switch
- D Micro switch
- E Distributor
- F Starter motor
- G Fuse box

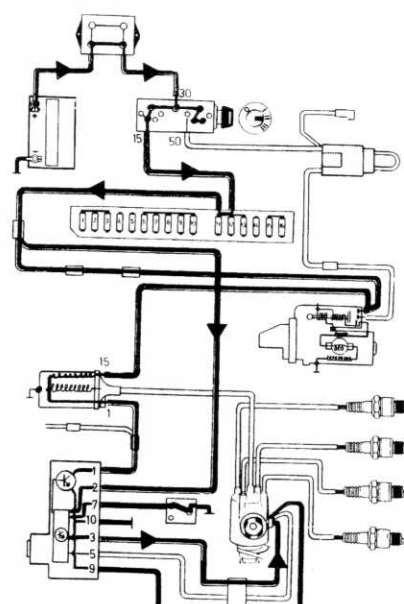
Ignition ON, engine running,
ignition coil being
energized.

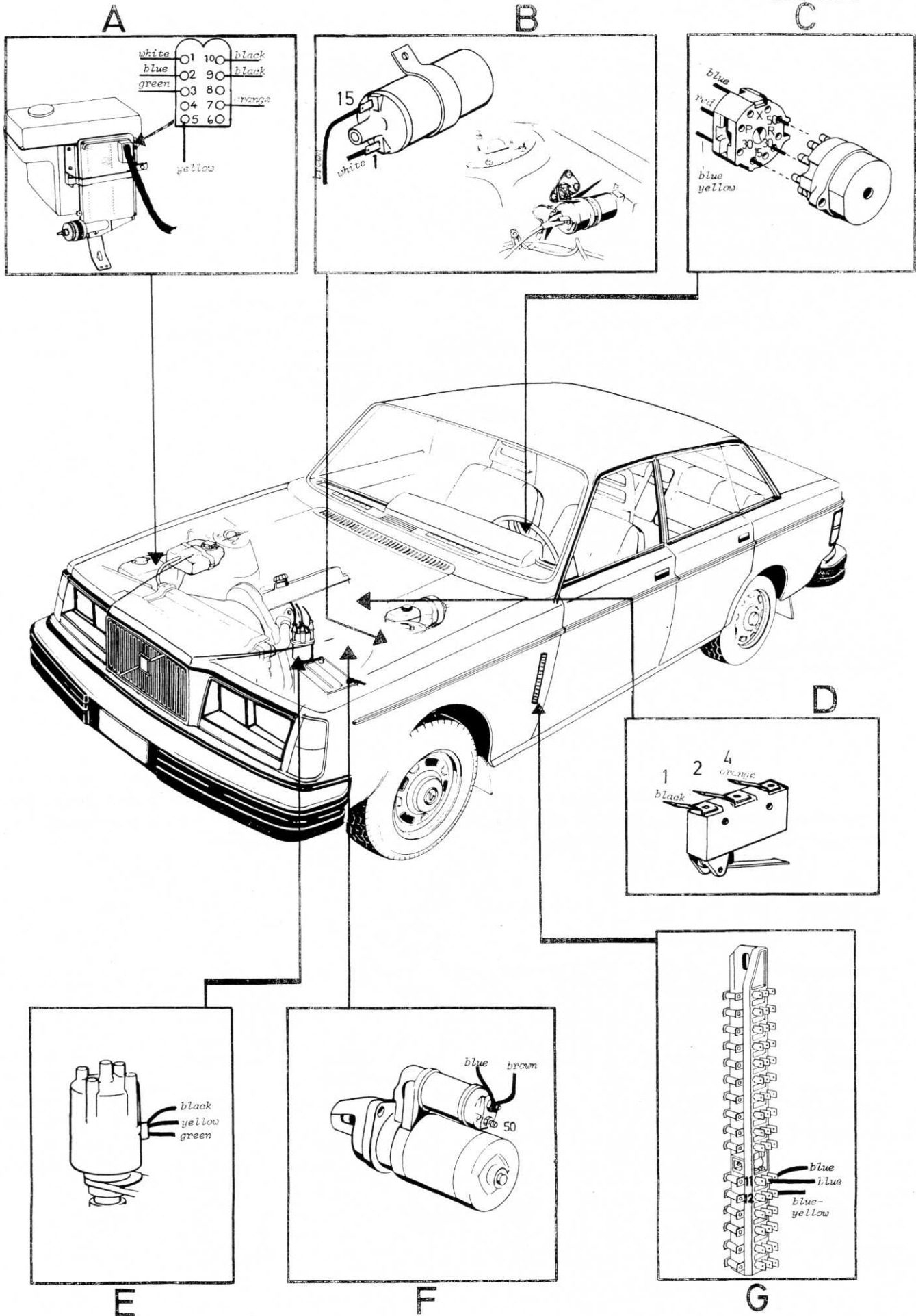


Ignition ON, engine running,
ignition coil discharges
(sparks).

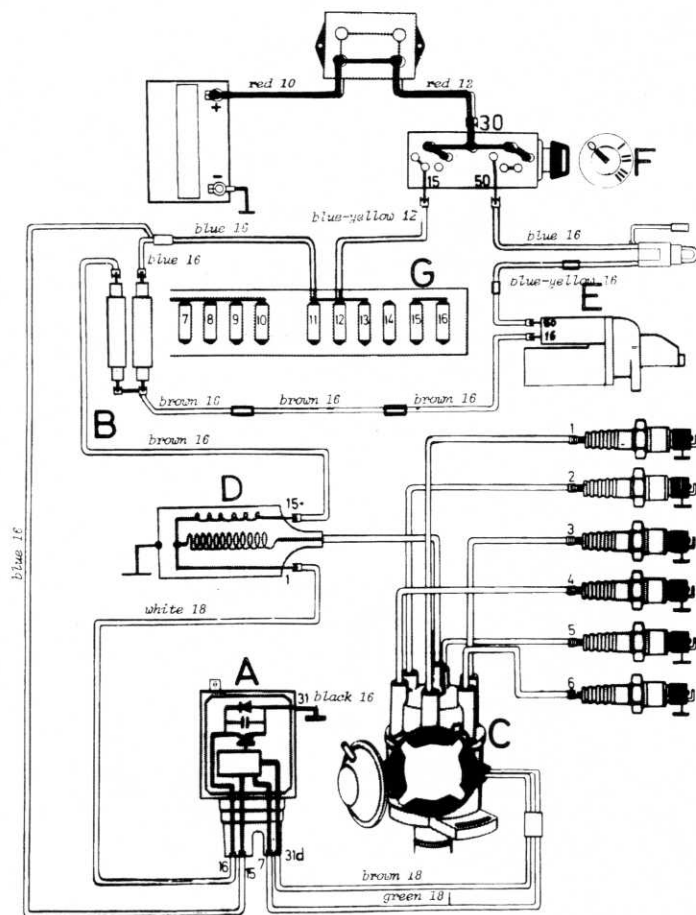


Ignition ON, engine stalled.
Micro switch grounds
circuit through Electronic
Control Unit.





Breakerless electronic ignition system B28F



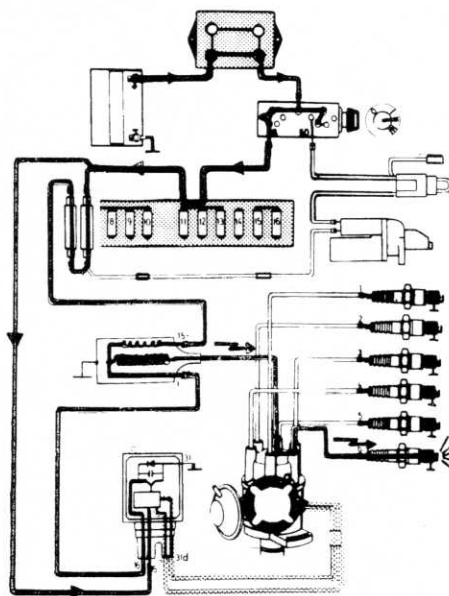
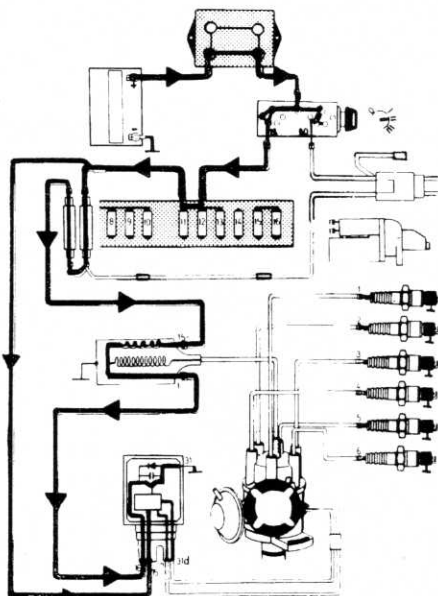
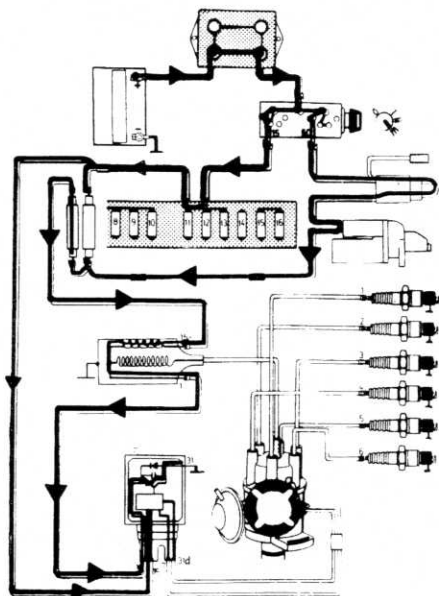
Legend:

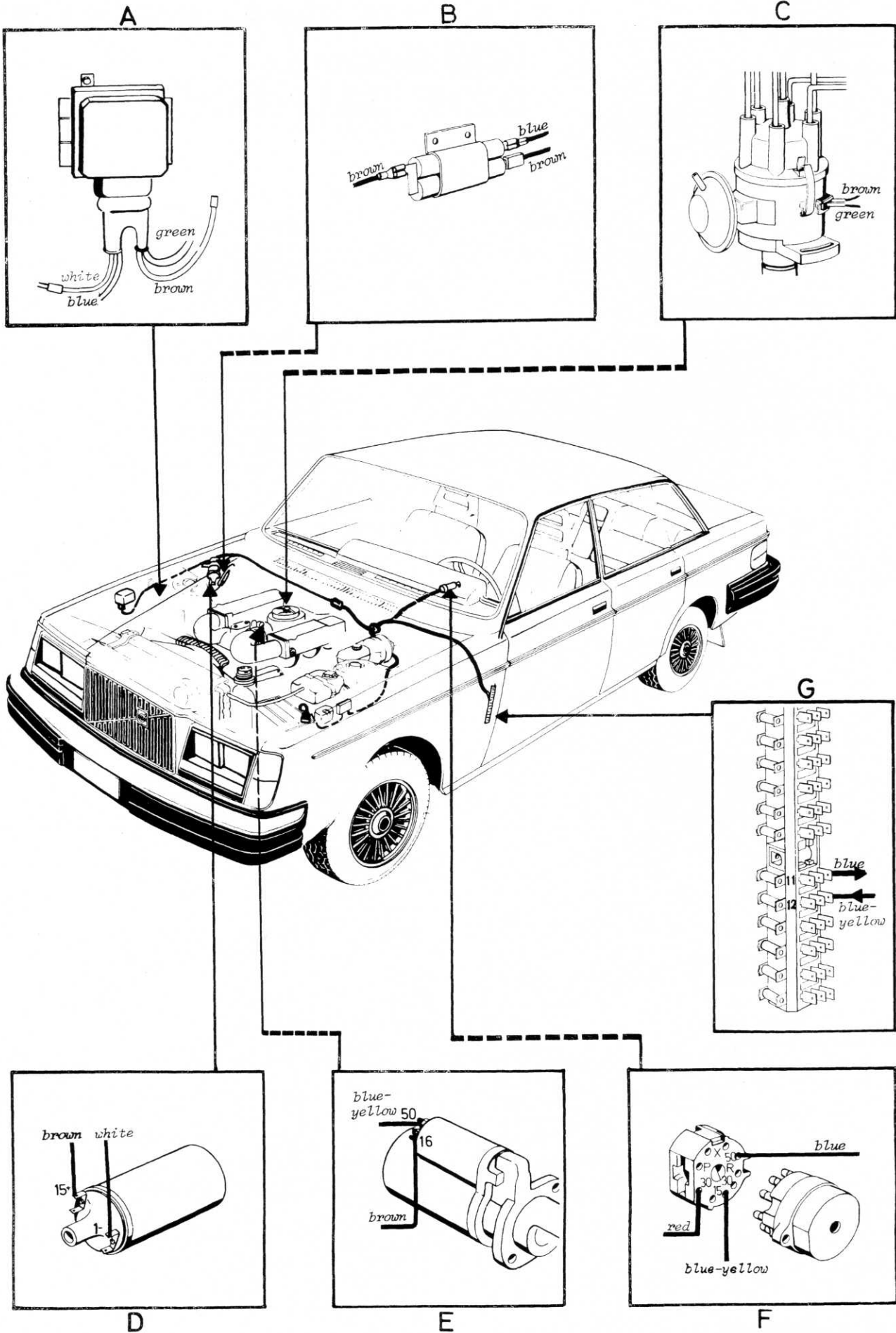
- A Ignition electronic module
- B Ballast resistor
- C Distributor w. impulse sender
- D Ignition coil
- E Starter motor
- F Ignition switch
- G Fuse box

Current flow while starter
motor is engaged.

Current flows through electronic
module, ignition coil primary winding
is energized.

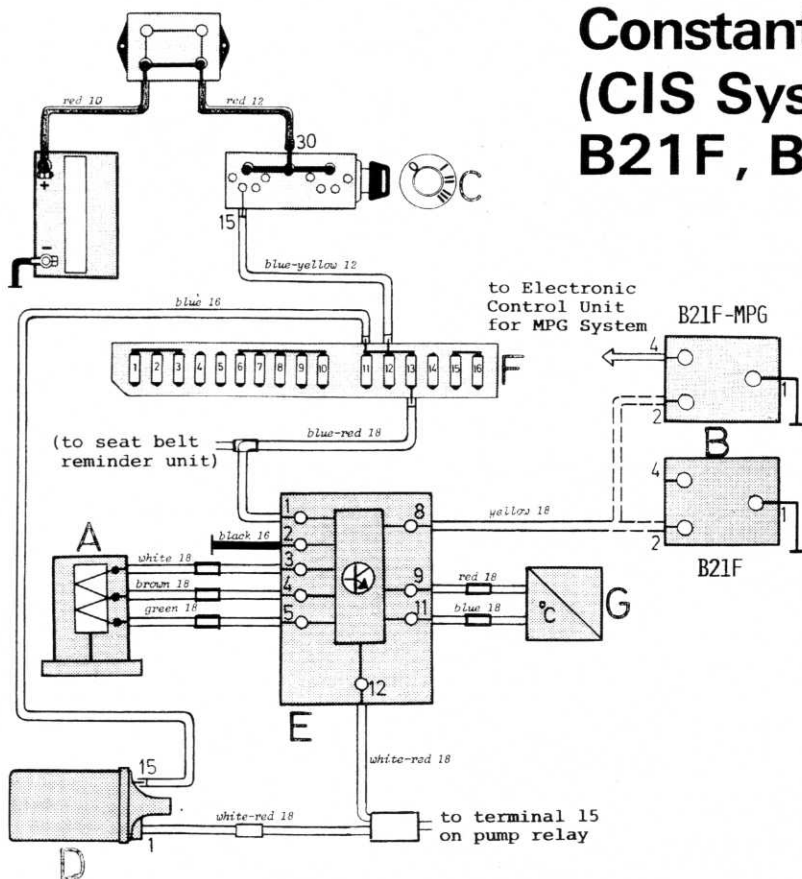
Electronic module interrupts
current flow, ignition discharges
(sparks) through secondary
winding.





Dad's Car

Constant Idle Speed System (CIS System) B21F, B21F-MPG

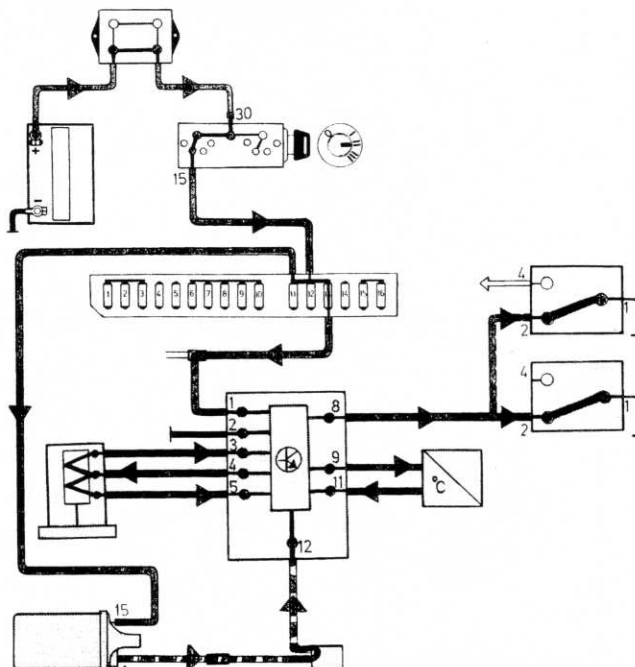
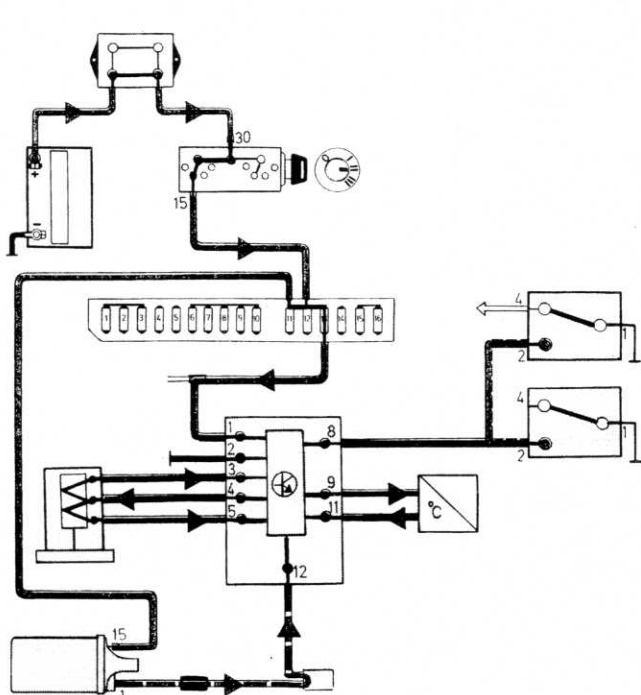


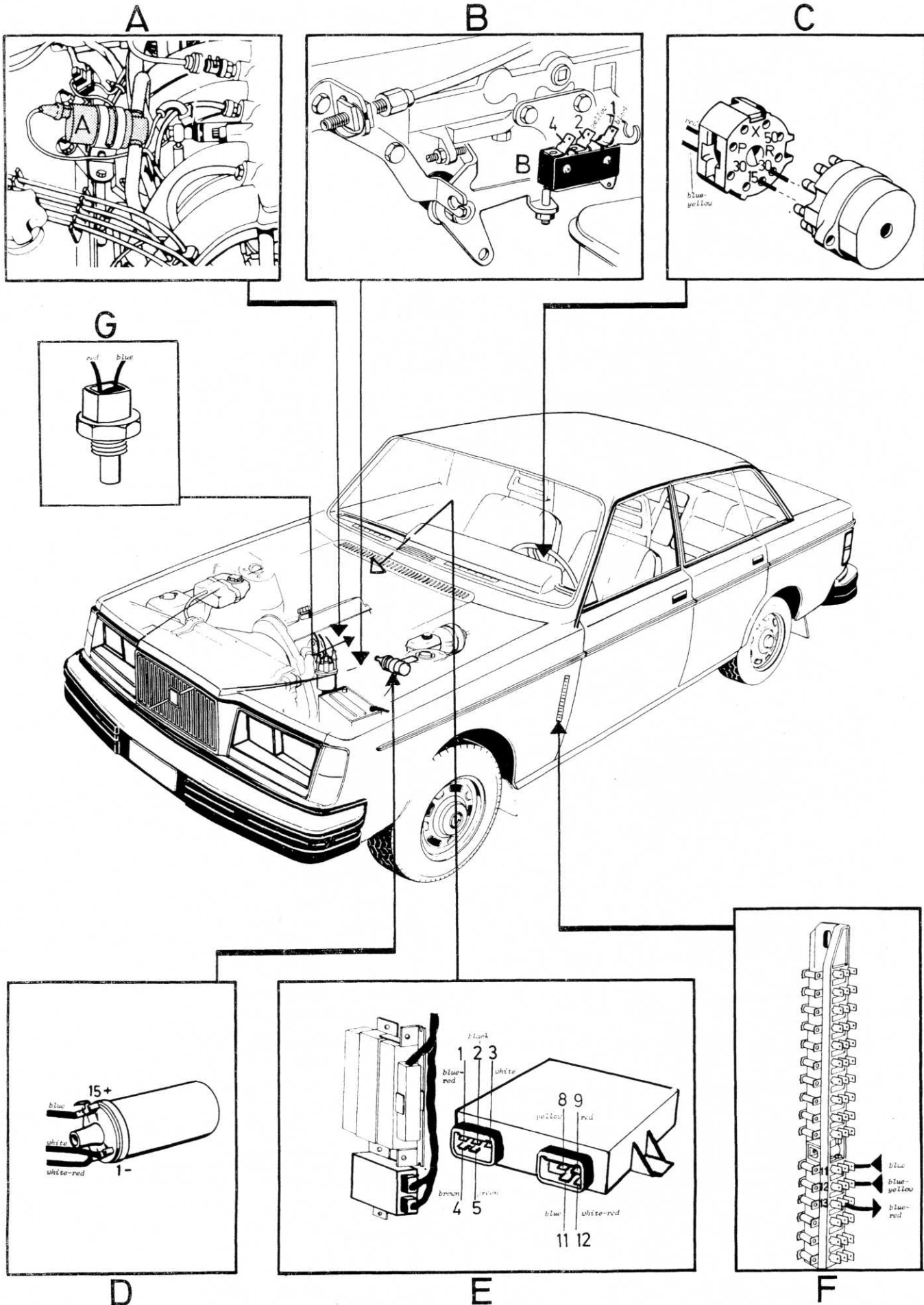
Idle speed.

Ground circuit through throttle switch is interrupted. Electronic Control unit controls Air Control Valve to set correct idle speed.

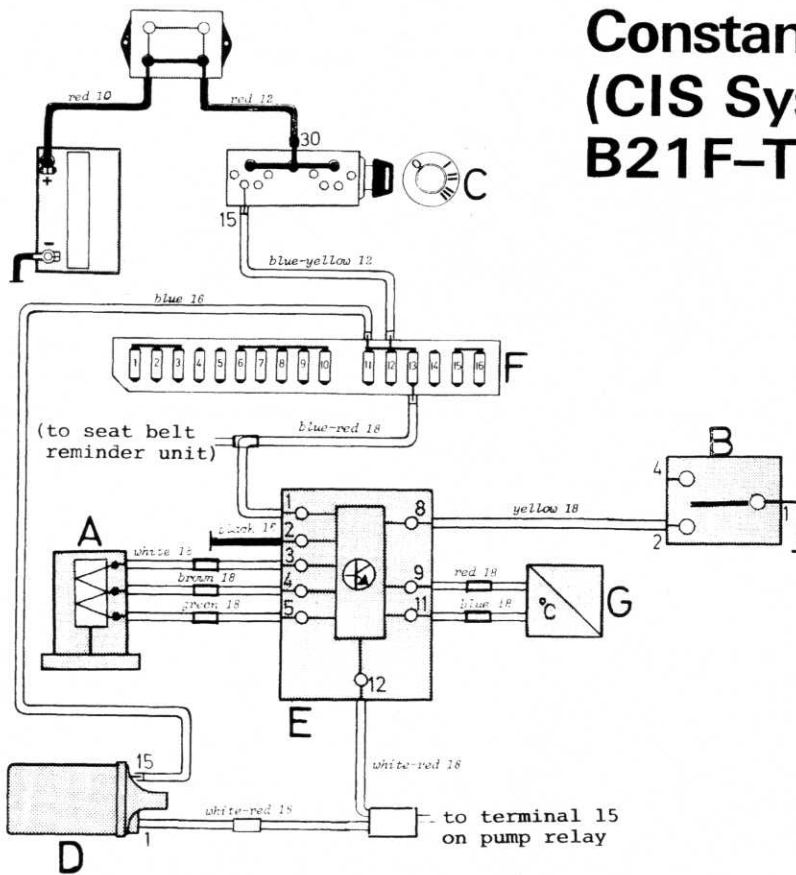
Above idle speed.

Ground circuit through throttle switch is closed. Electronic Control Unit controls Air Control Valve to set high air flow (and avoid engine stalls).





Constant Idle Speed System (CIS System) B21F-Turbo



Fuse No. 13:
Instruments
Turn signals
Seat belt warning
CIS System

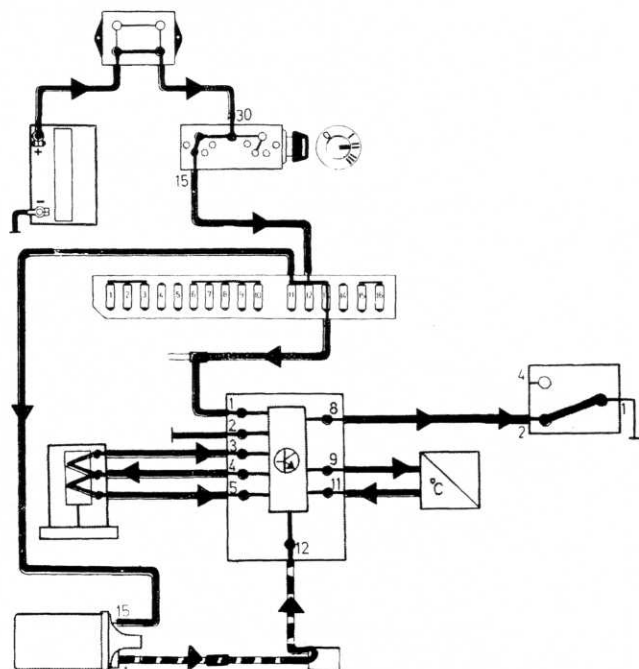
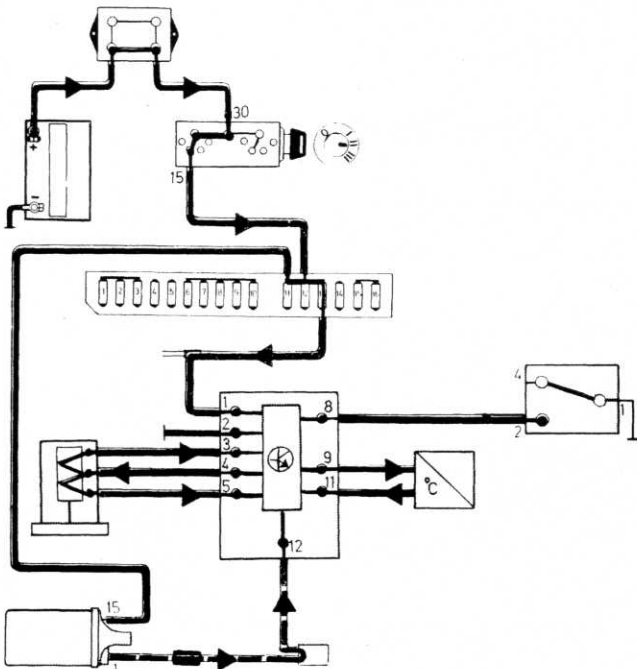
Legend:
A Air control valve
B Throttle switch
C Ignition switch
D Ignition coil
E Electronic control unit
F Fuse box
G Coolant temperature sensor

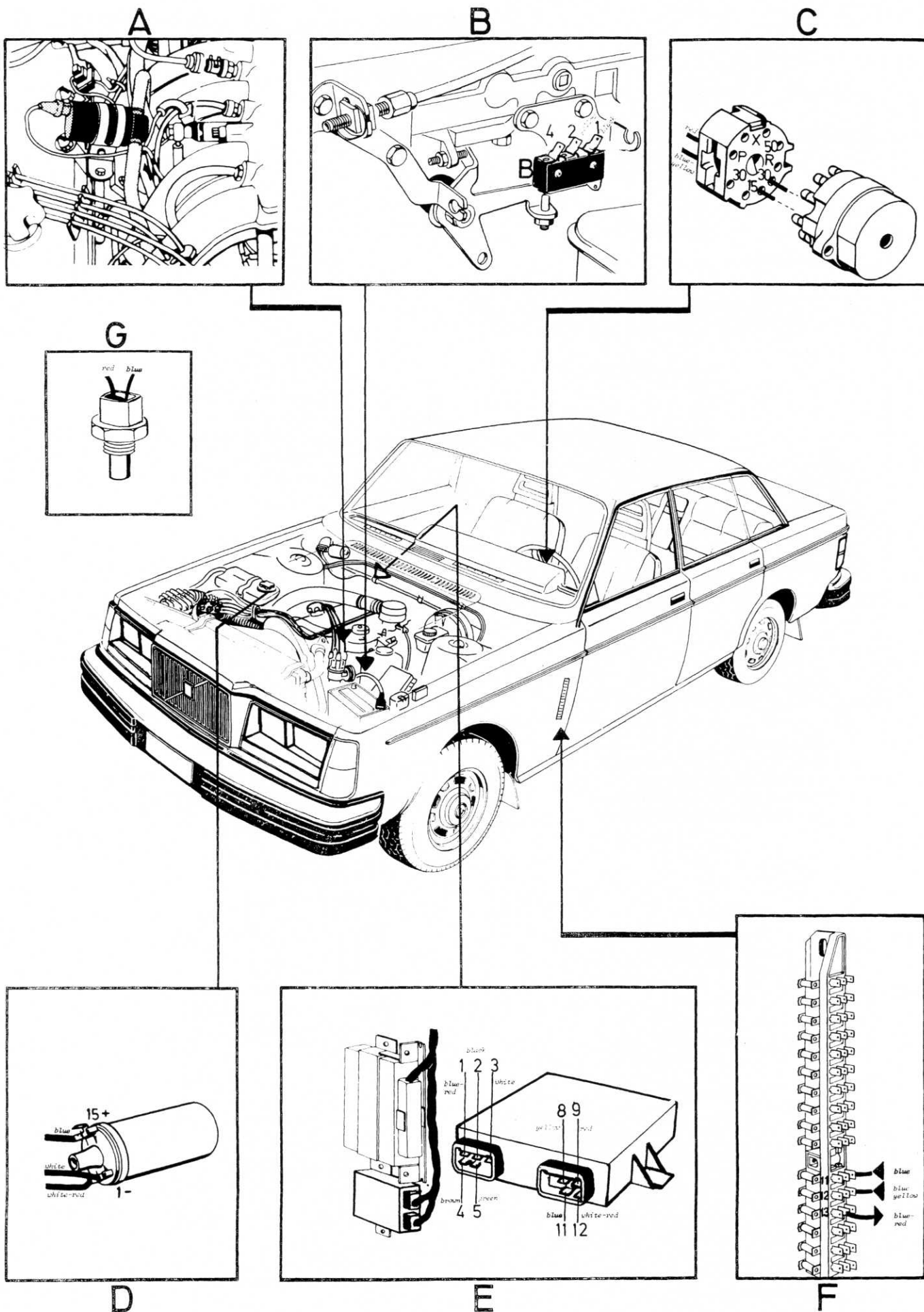
Idle speed.

Ground circuit through throttle switch is interrupted. Electronic Control unit controls Air Control Valve to set correct idle speed.

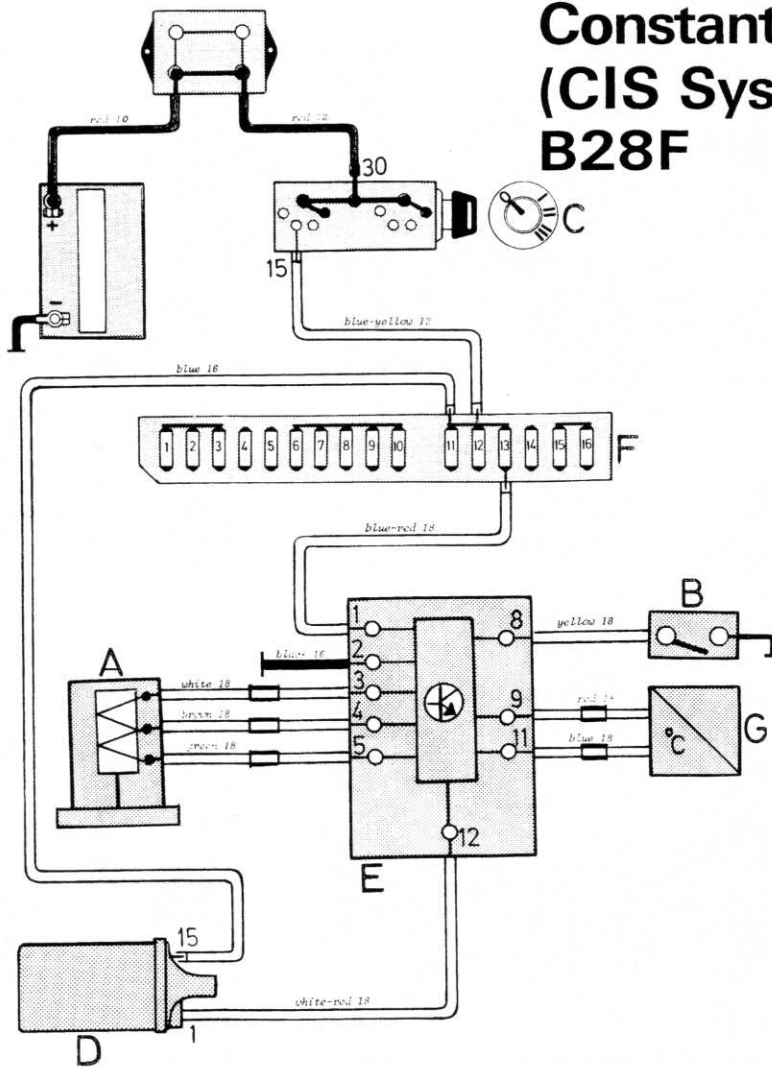
Above idle speed.

Ground circuit through throttle switch is closed. Electronic Control Unit controls Air Control Valve to set high air flow (and avoid engine stalls).





Constant Idle Speed System (CIS System) B28F



Fuse No. 13:

Instruments
Turn signals
Seat belt warning
CIS System

Legend:

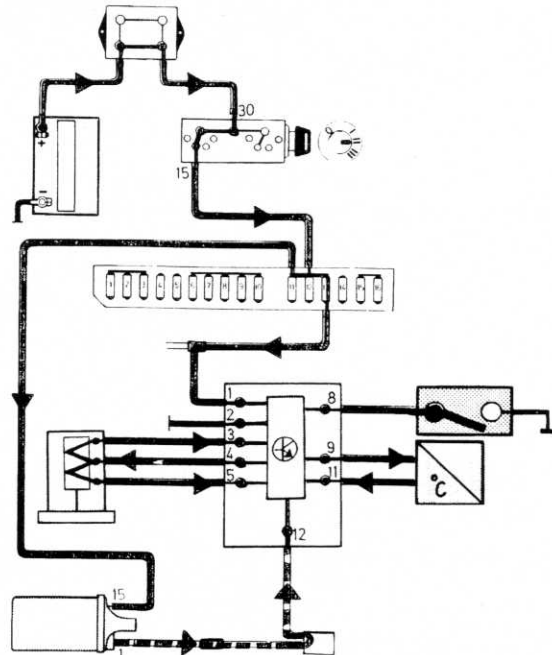
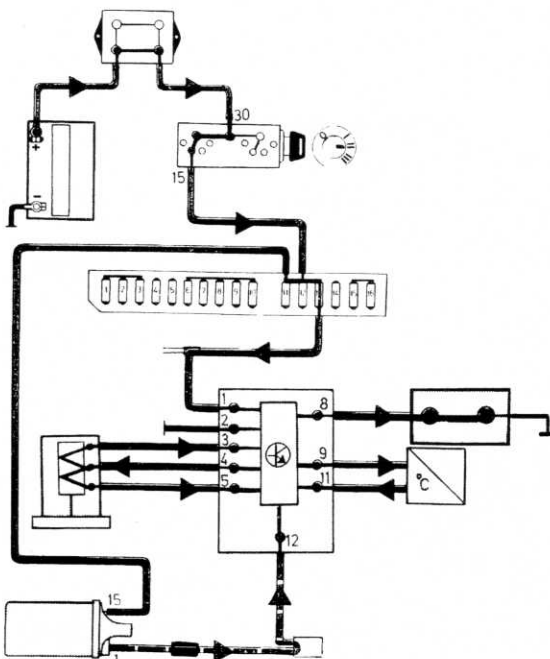
A Air control valve
B Throttle switch
C Ignition switch
D Ignition coil
E Electronic control unit
F Fuse box
G Coolant temperature sensor

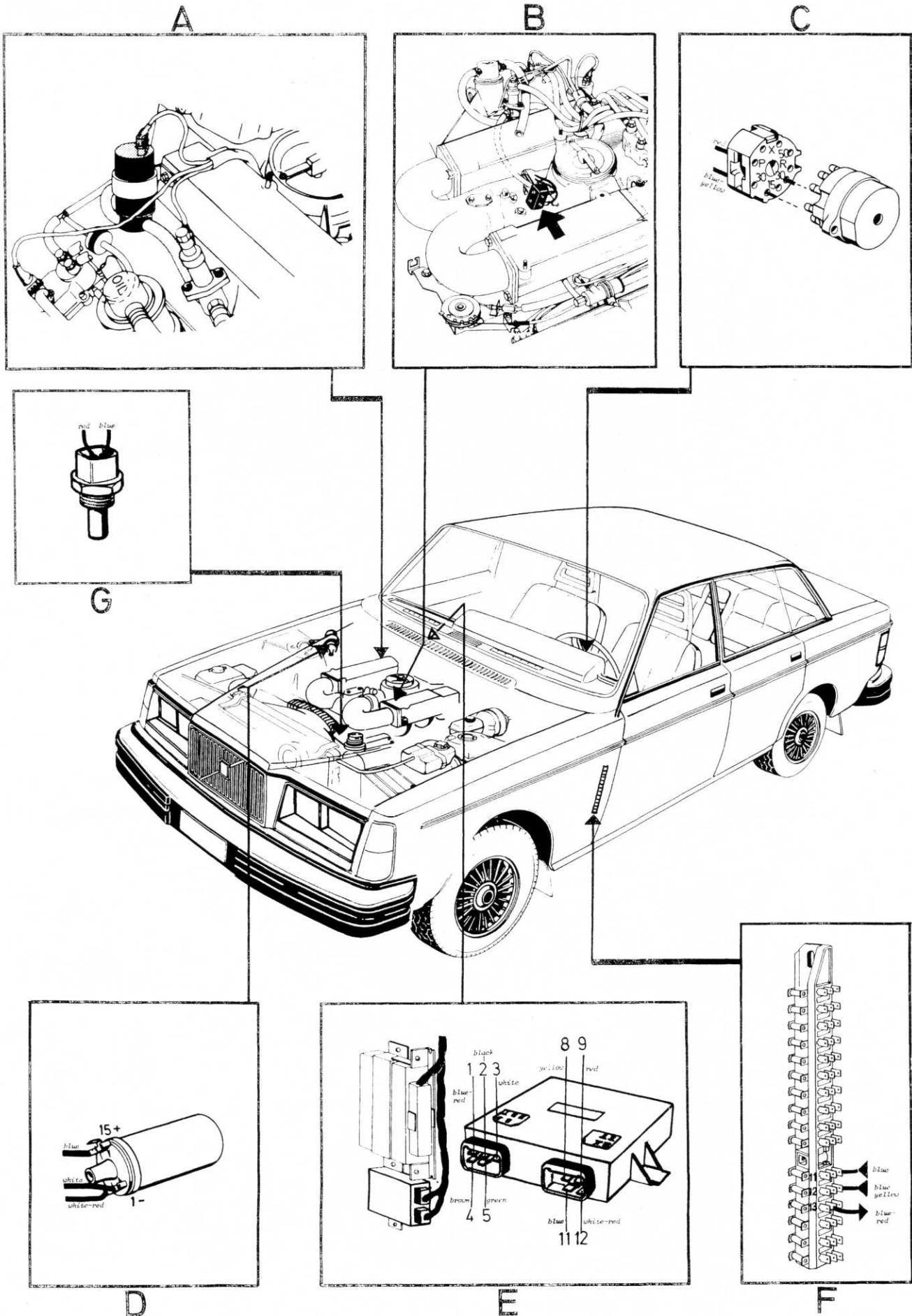
Idle speed.

Ground circuit through throttle switch is closed. Electronic Control unit controls Air Control Valve to set correct idle speed.

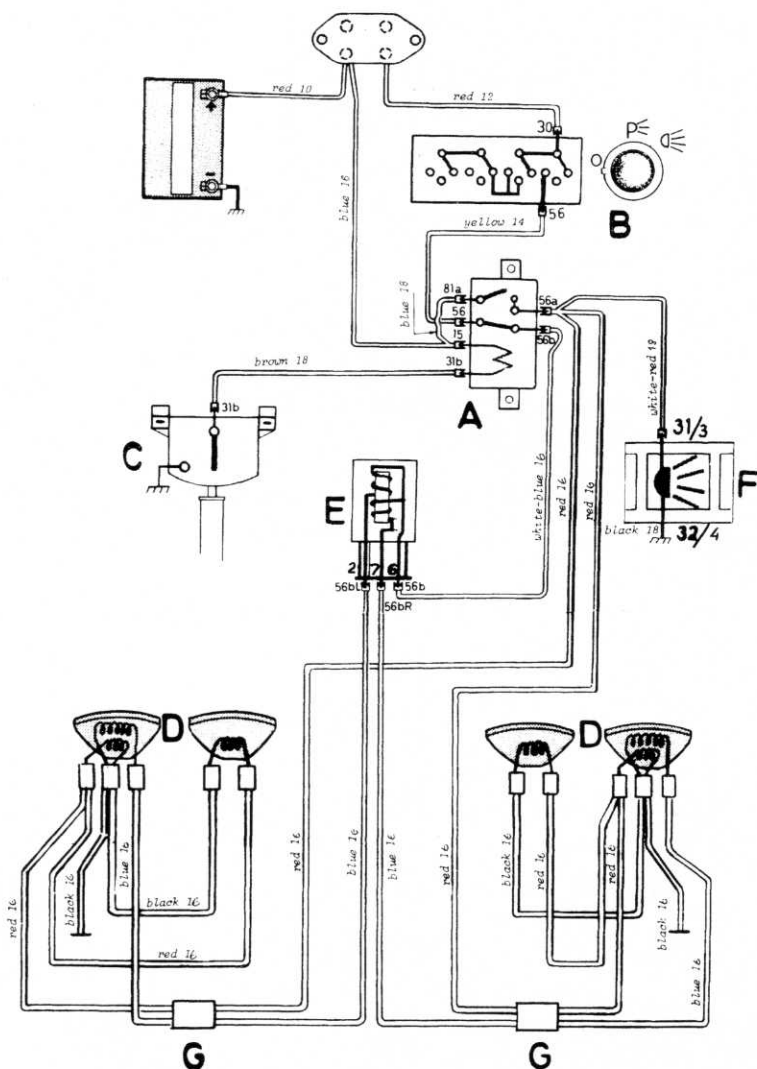
Above idle speed.

Ground circuit through throttle switch is interrupted. Electronic Control Unit controls Air Control Valve to set high air flow (and avoid engine stalls).





Headlights



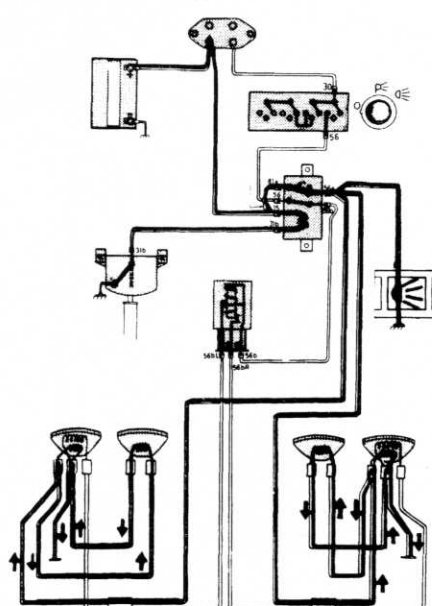
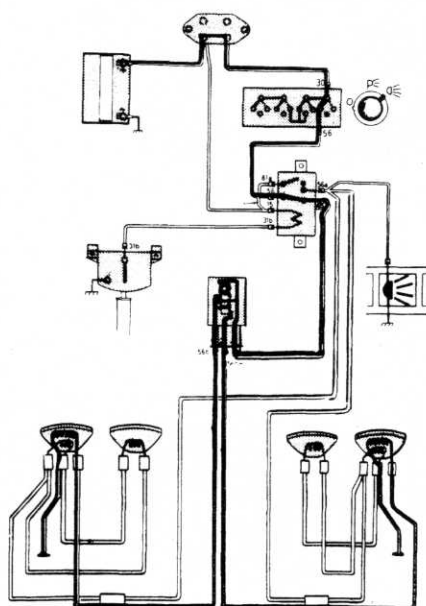
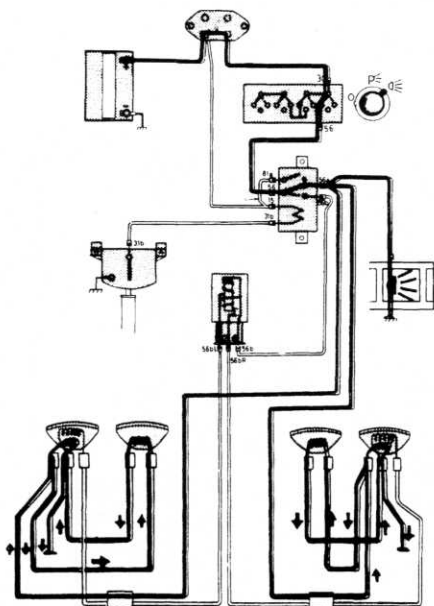
Legend:

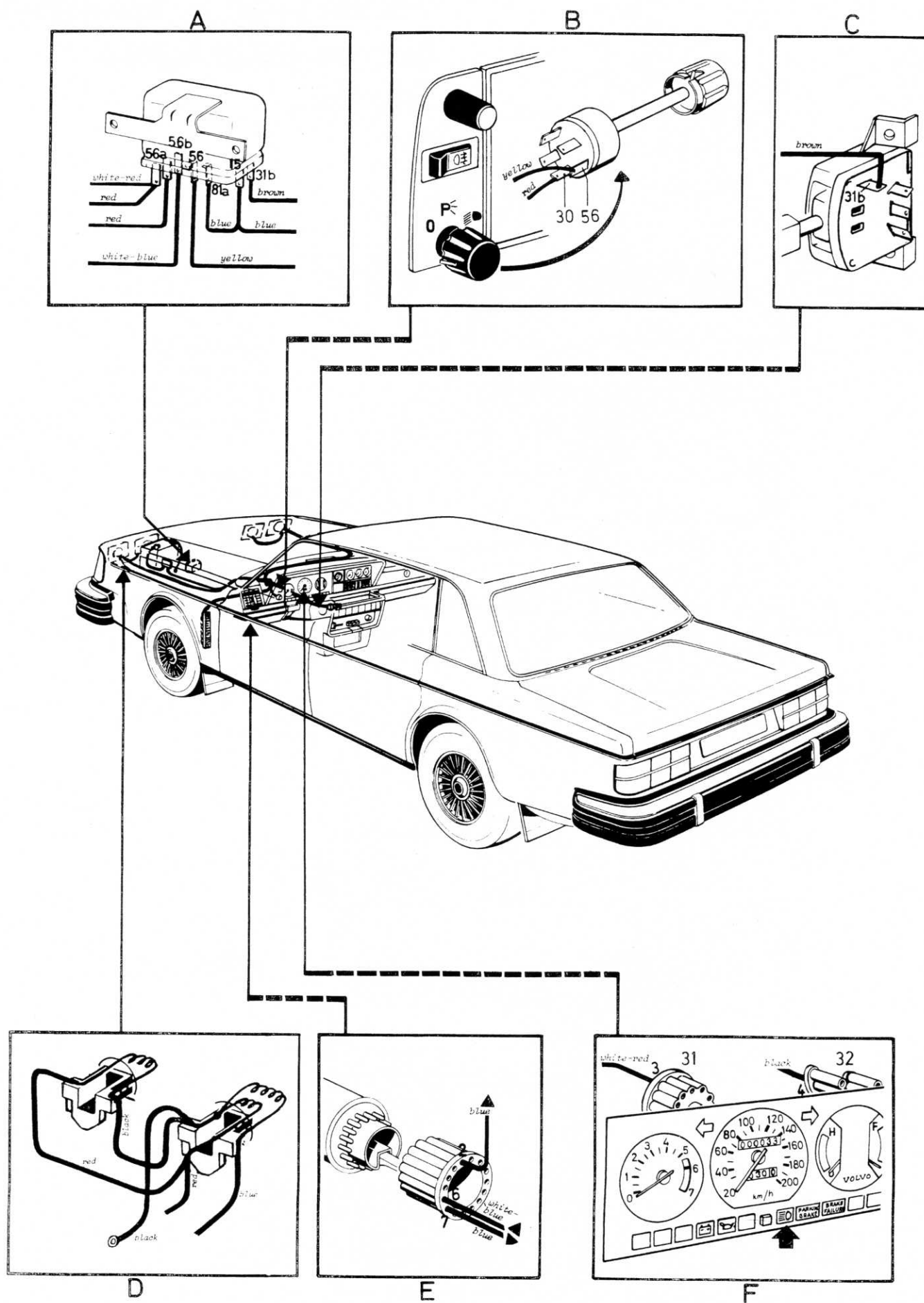
- A Upper/lower beam switch relay
- B Light switch
- C Turn signal switch/
headlight flasher
- D Headlamps
- F Upper beam indicator light
- G Connectors

Upper beam

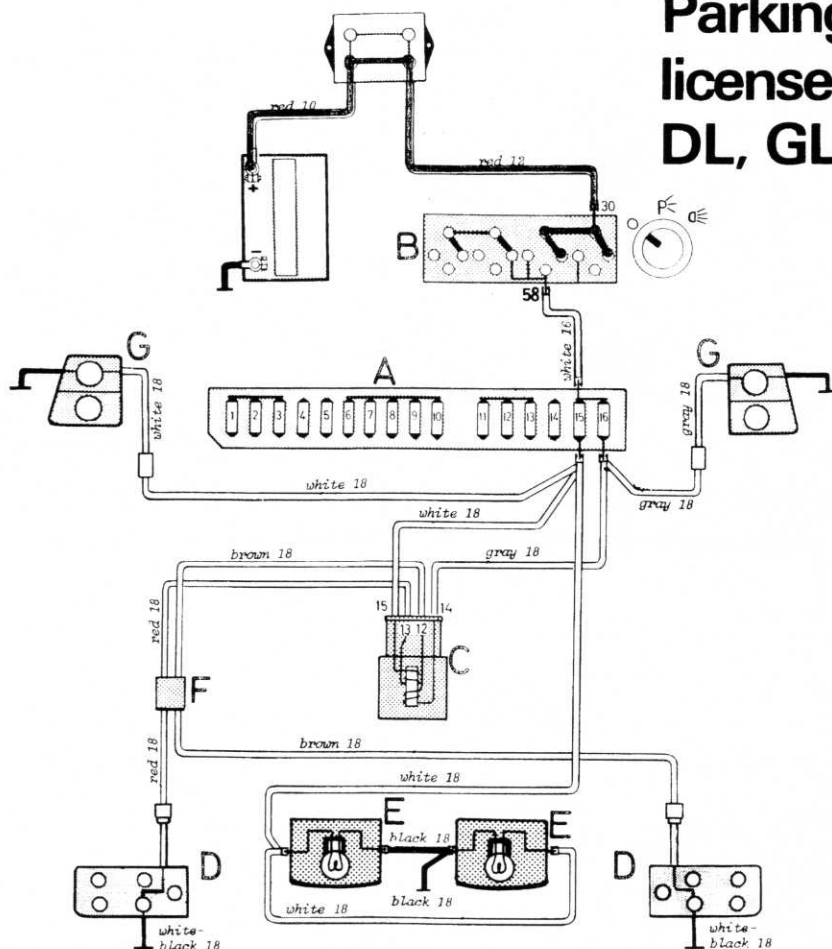
Lower beam

Headlight flasher





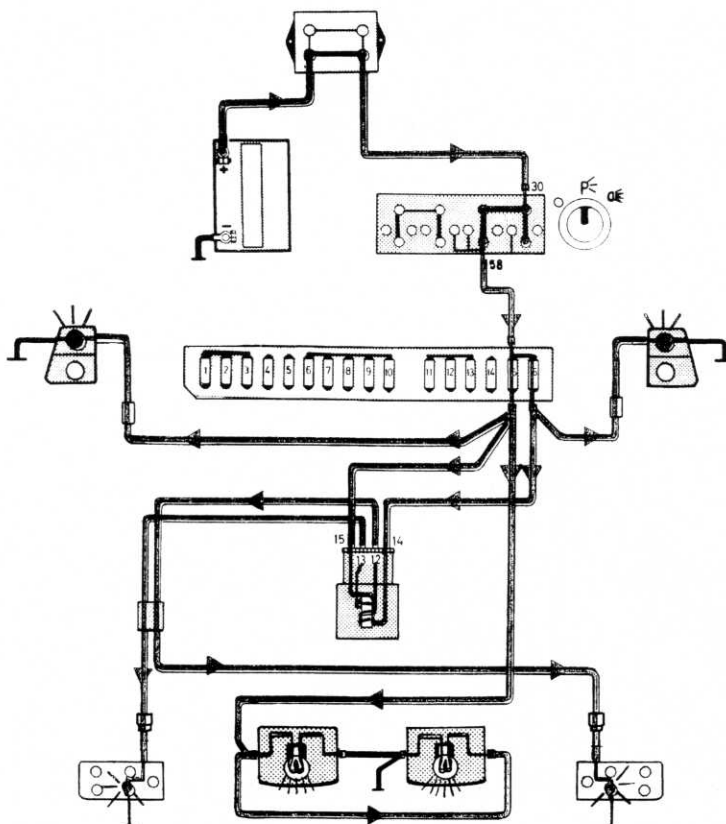
Parking lights, tail lights, license plate lights DL, GL,

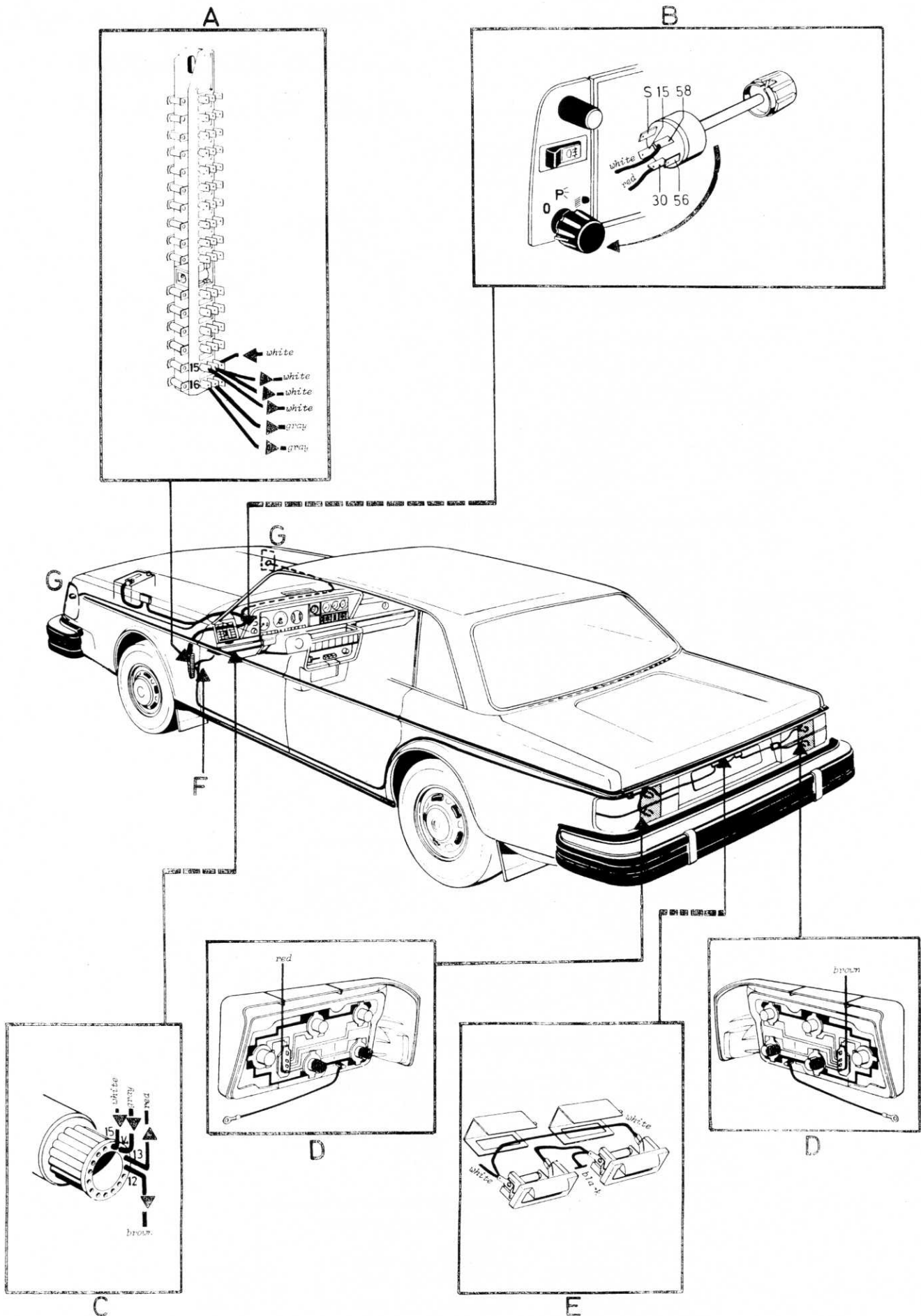


Fuse No. 15:
Parking light, left side
License plate light

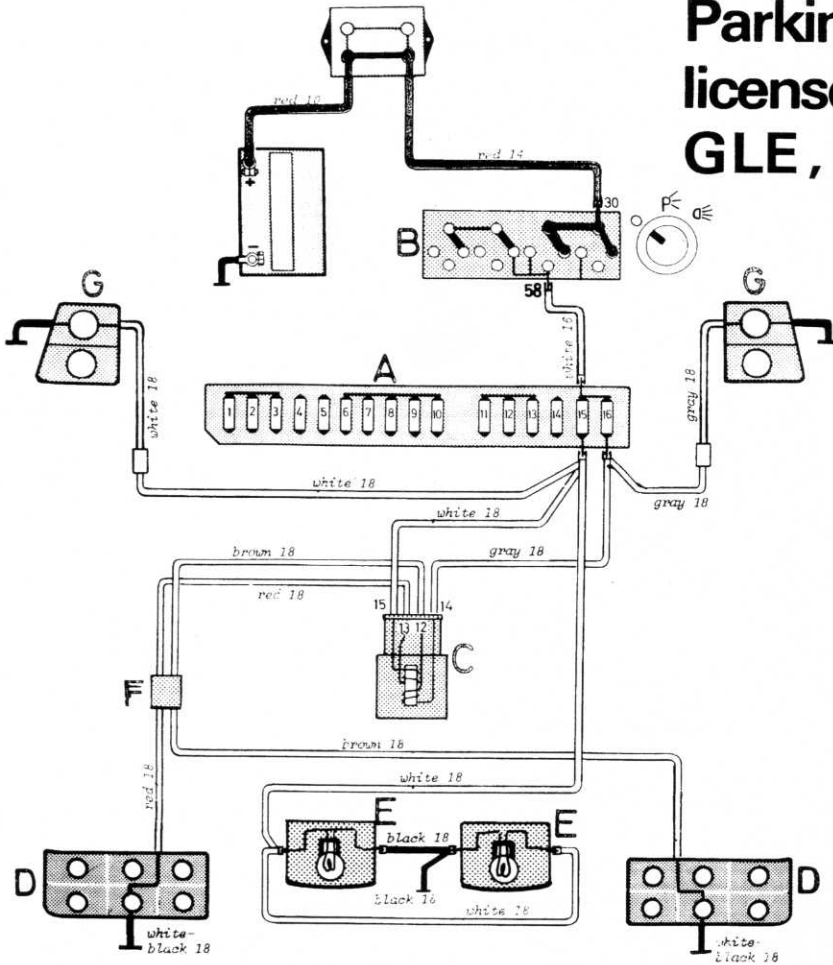
Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

Legend:
A Fuse box
B Light switch
C Bulb failure sensor
D Tail lamp
E License plate lamps
F Connector
G Parking lamps





Parking lights, tail lights, license plate lights GLE, GLT, Coupe

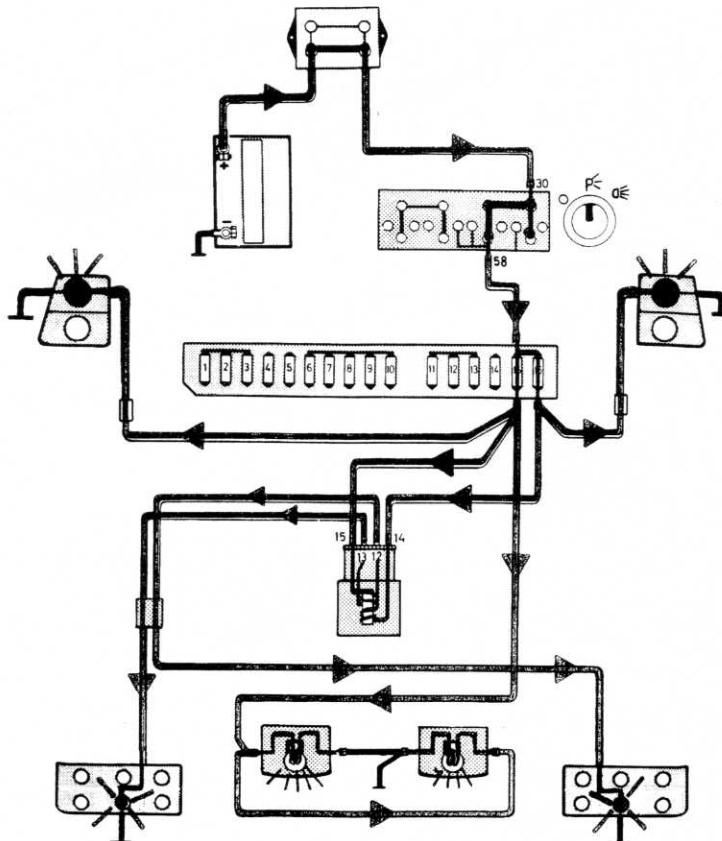


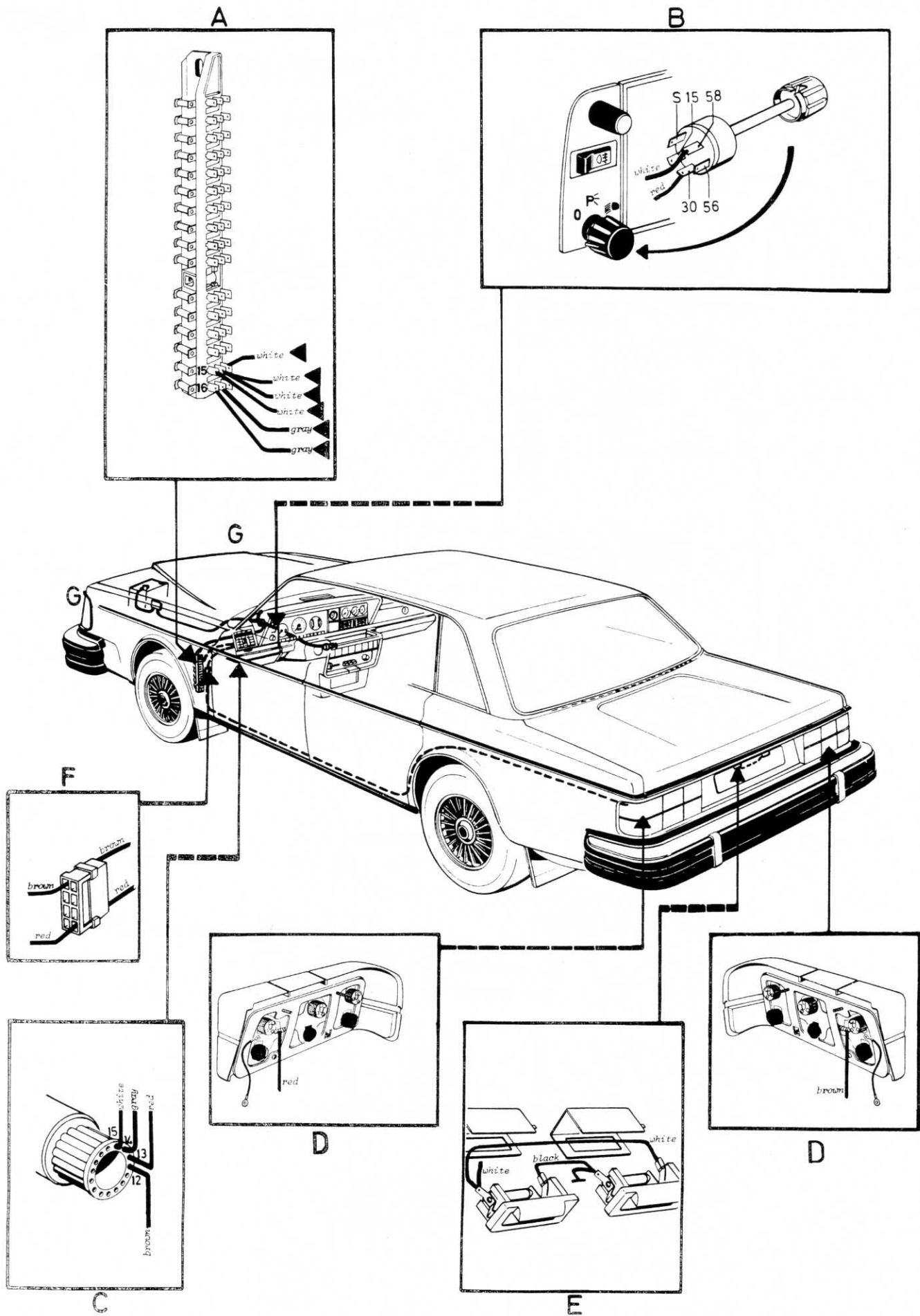
Fuse No. 15:
Parking light, left side
License plate light

Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

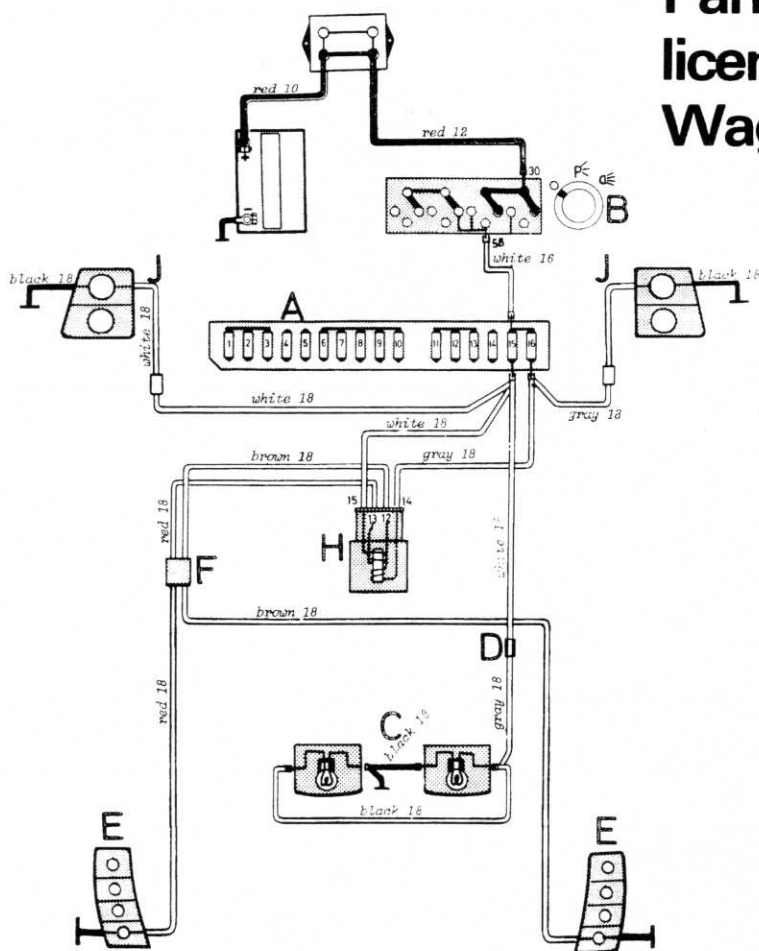
Legend:

- A Fuse box
- B Light switch
- C Bulb failure sensor
- D Tail lamp
- E License plate lamp
- F Connector
- G Parking lamp





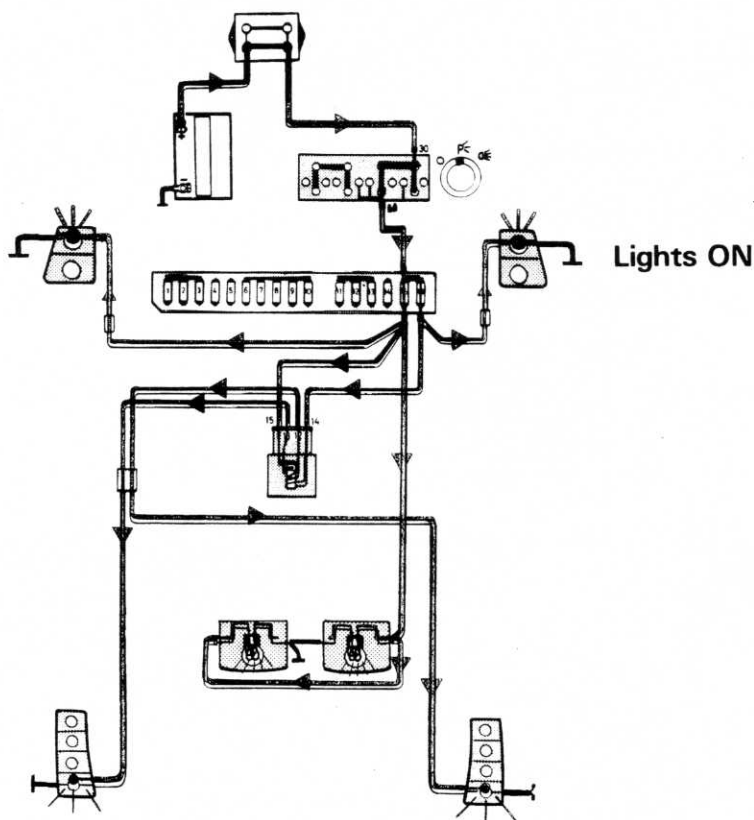
Parking lights, tail lights license plate lights, Wagon

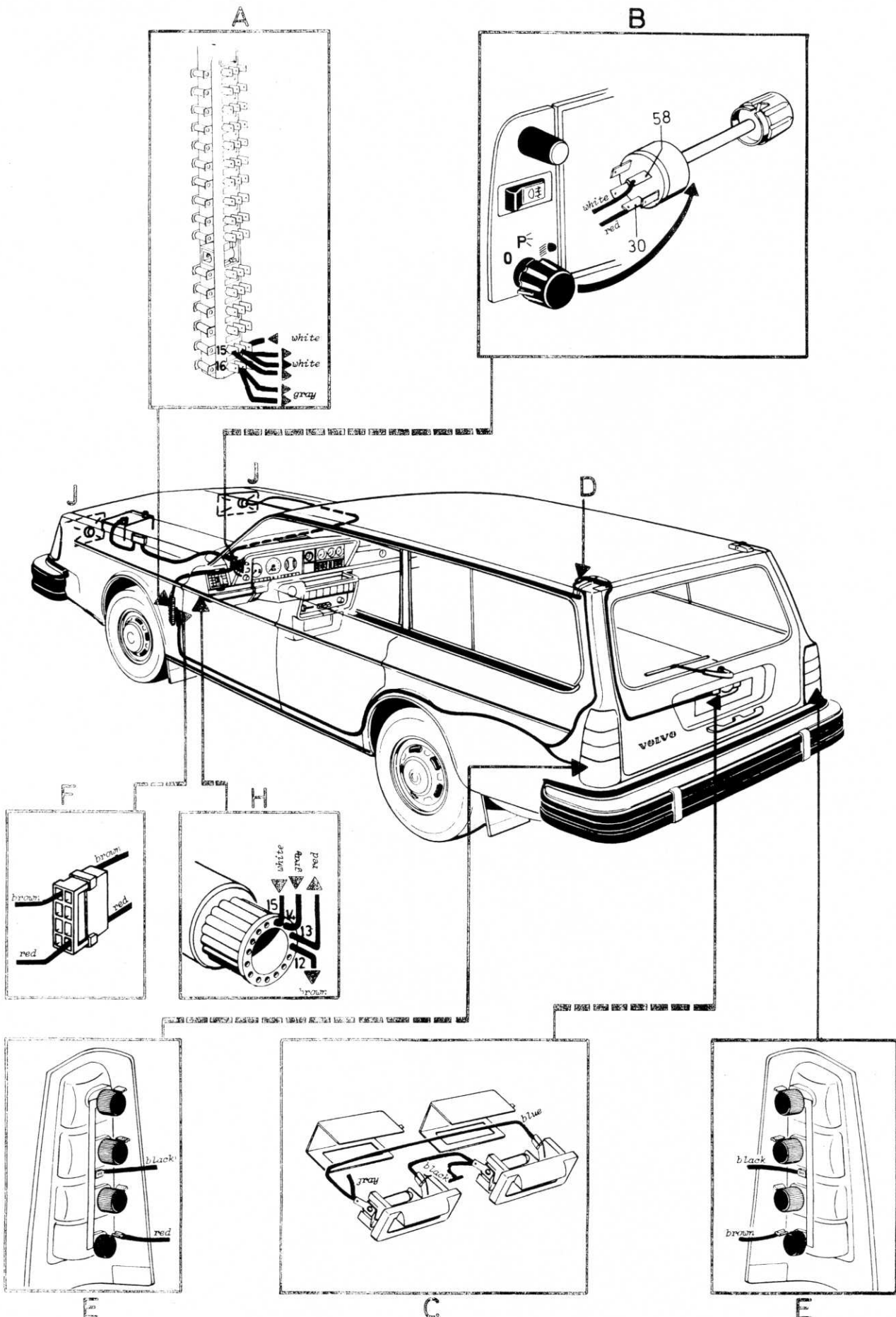


Fuse No. 15:
Parking light, left side
License plate light
Side marker light (wagon)

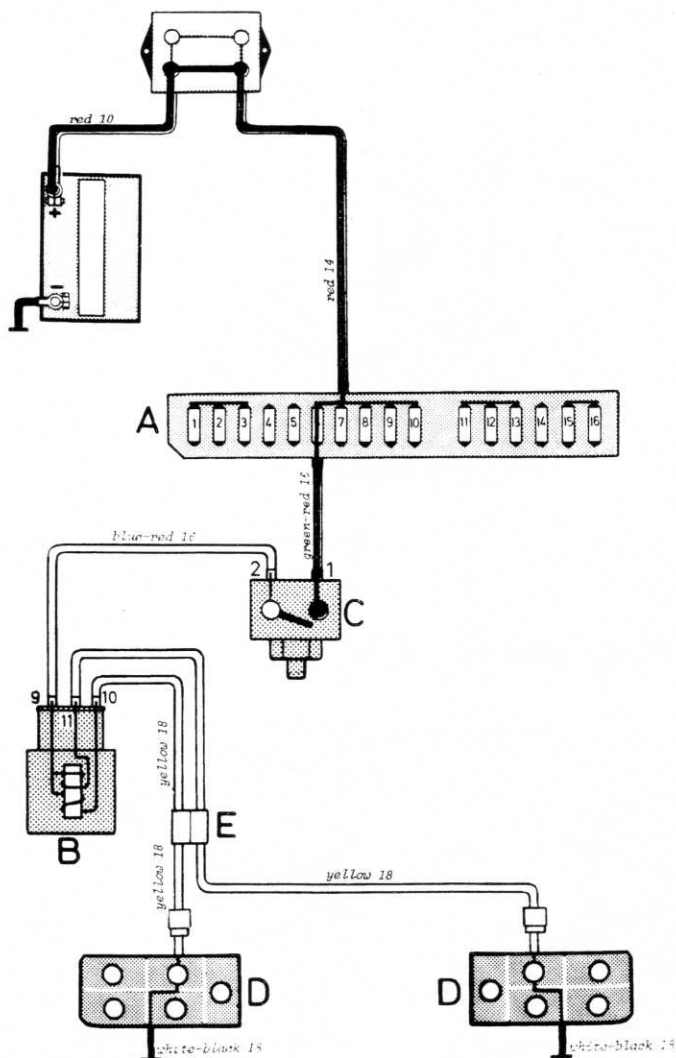
Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

Legend:
A Fuse box
B Light switch
C License plate lamps
D Connector
E Tail lamps
F Connector
H Bulb failure sensor
J Parking lamps





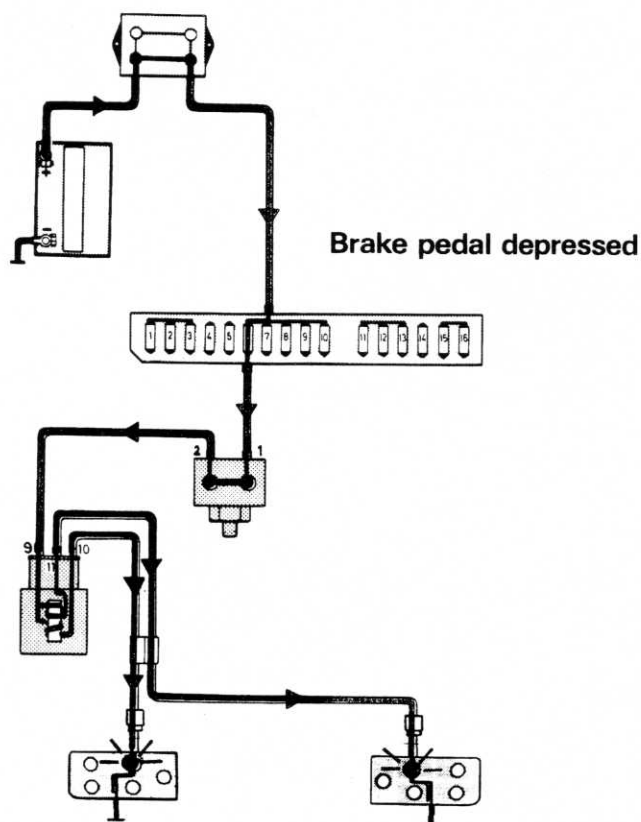
Brake lights DL, GL

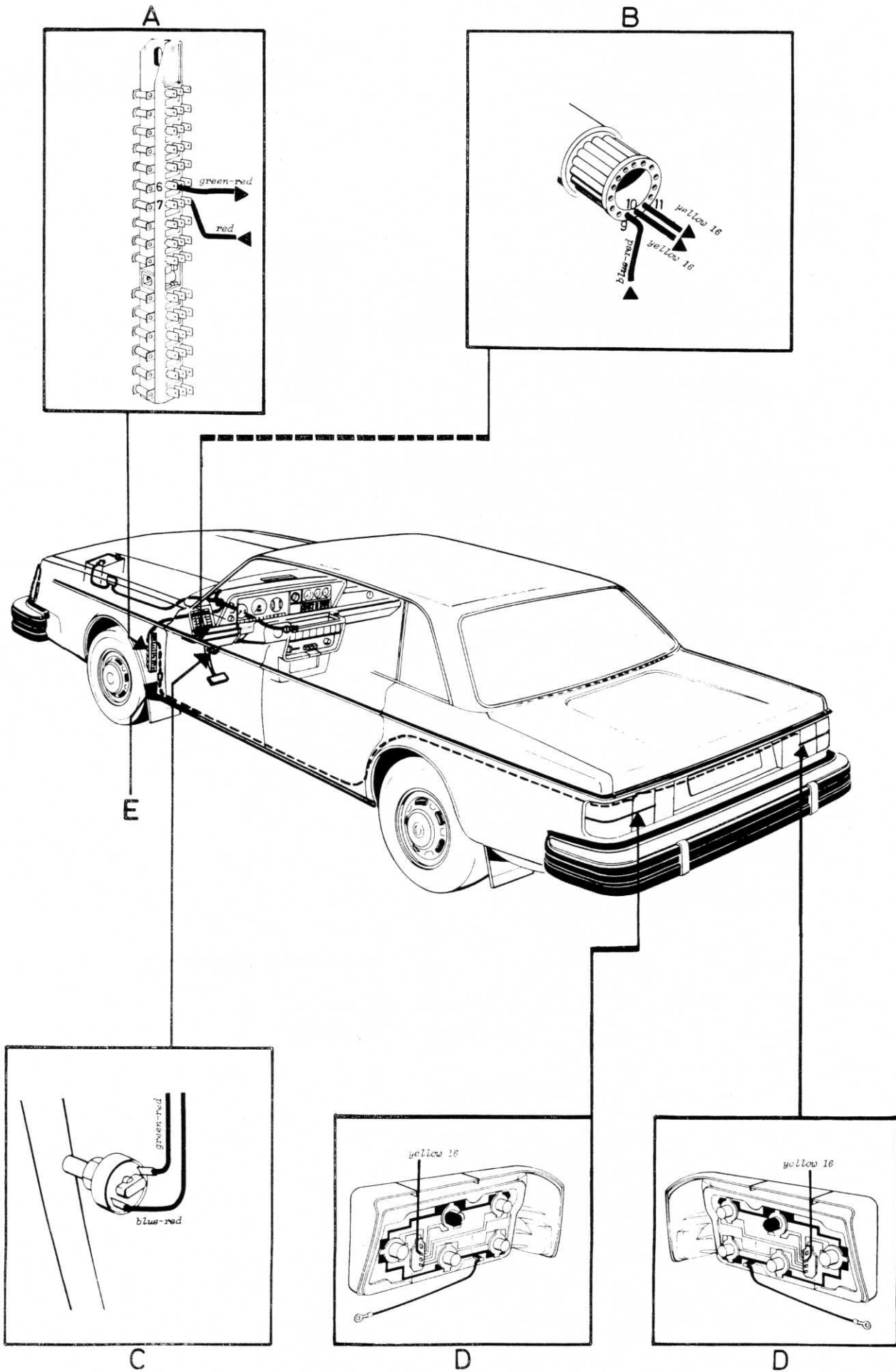


Fuse No. 6:
Brake light

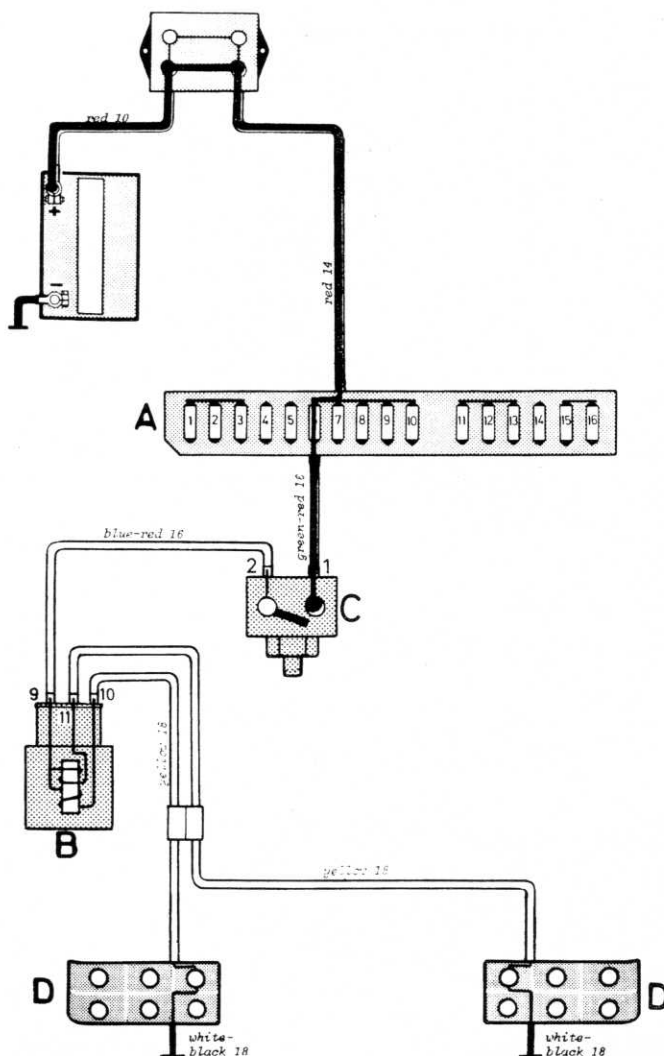
Legend:

- A Fuse box
- B Bulb failure sensor
- C Brake light switch
- D Brake lights
- E Connector



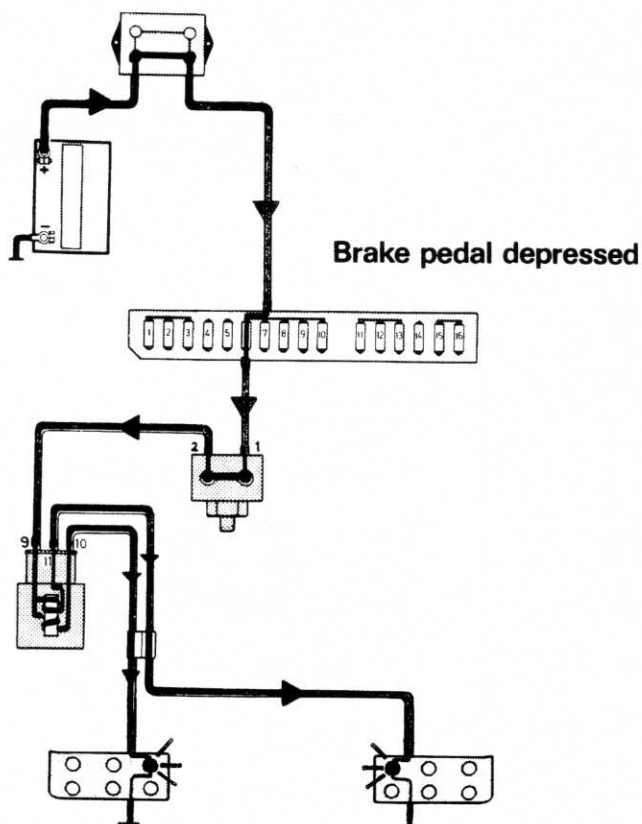


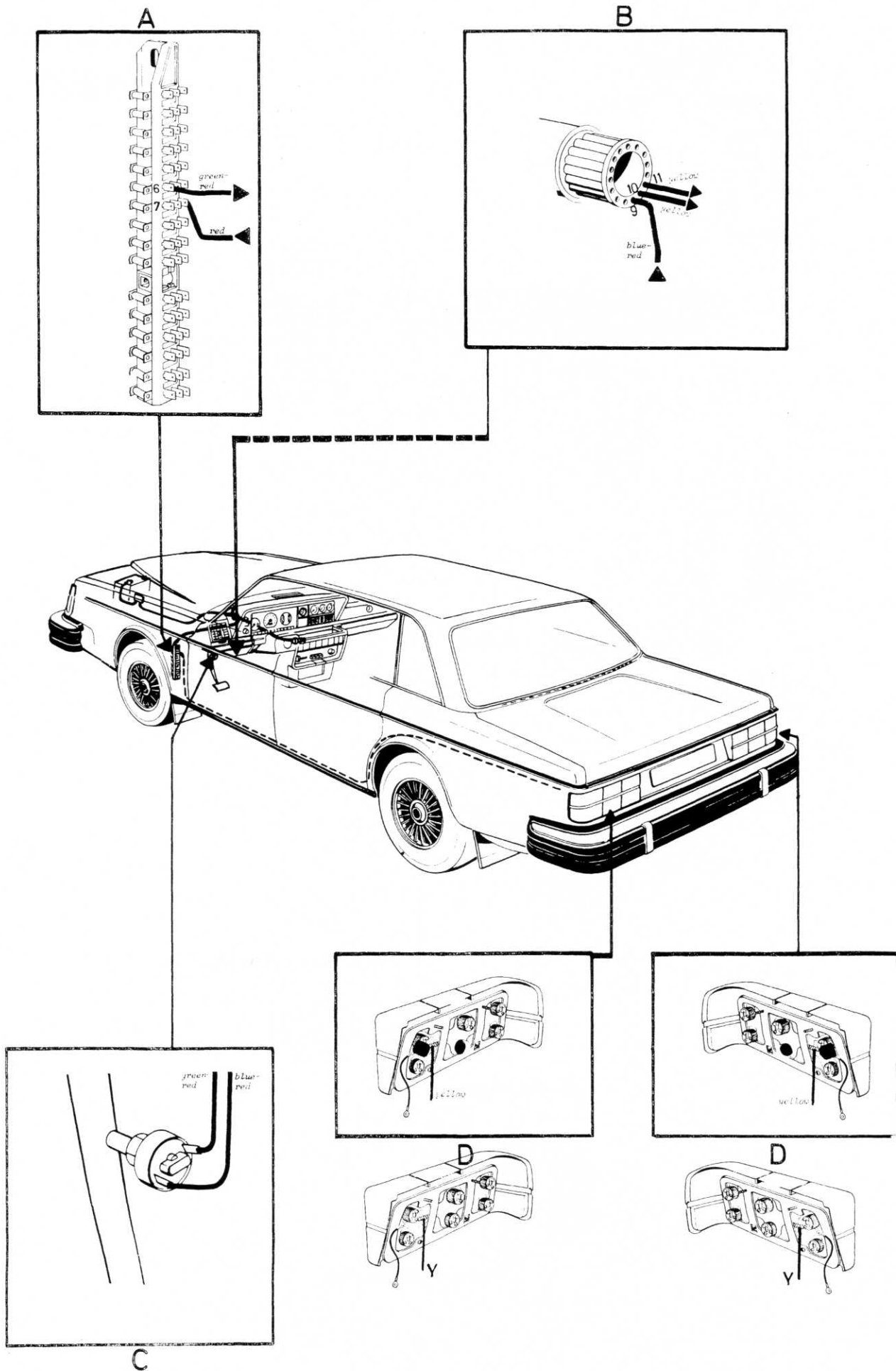
Brake lights GLE, GLT, Coupe



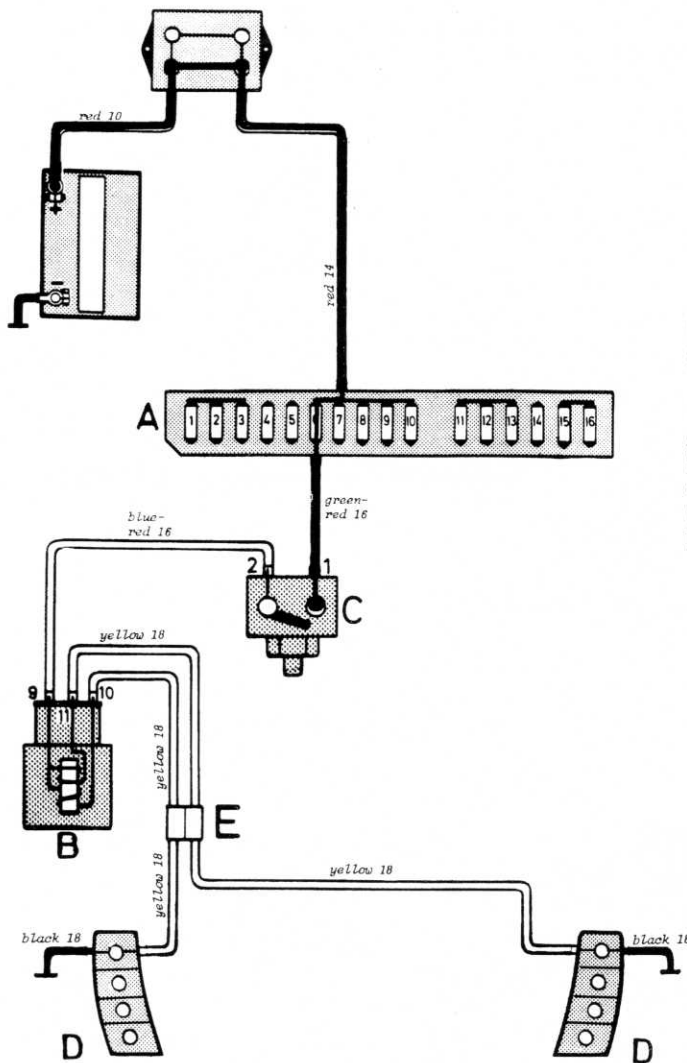
Fuse No. 6:
Brake light

Legend:
A Fuse box
B Bulb failure sensor
C Brake light switch
D Brake lights





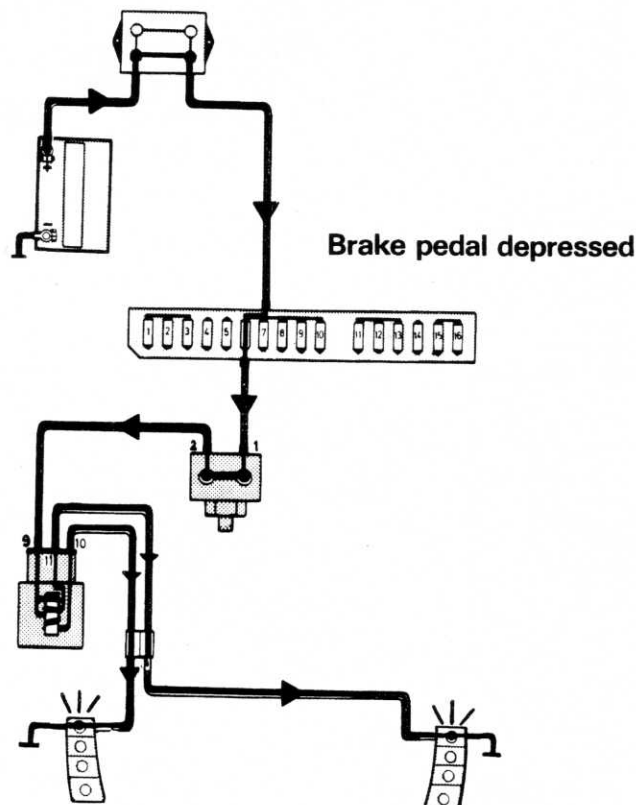
Brake lights Wagon

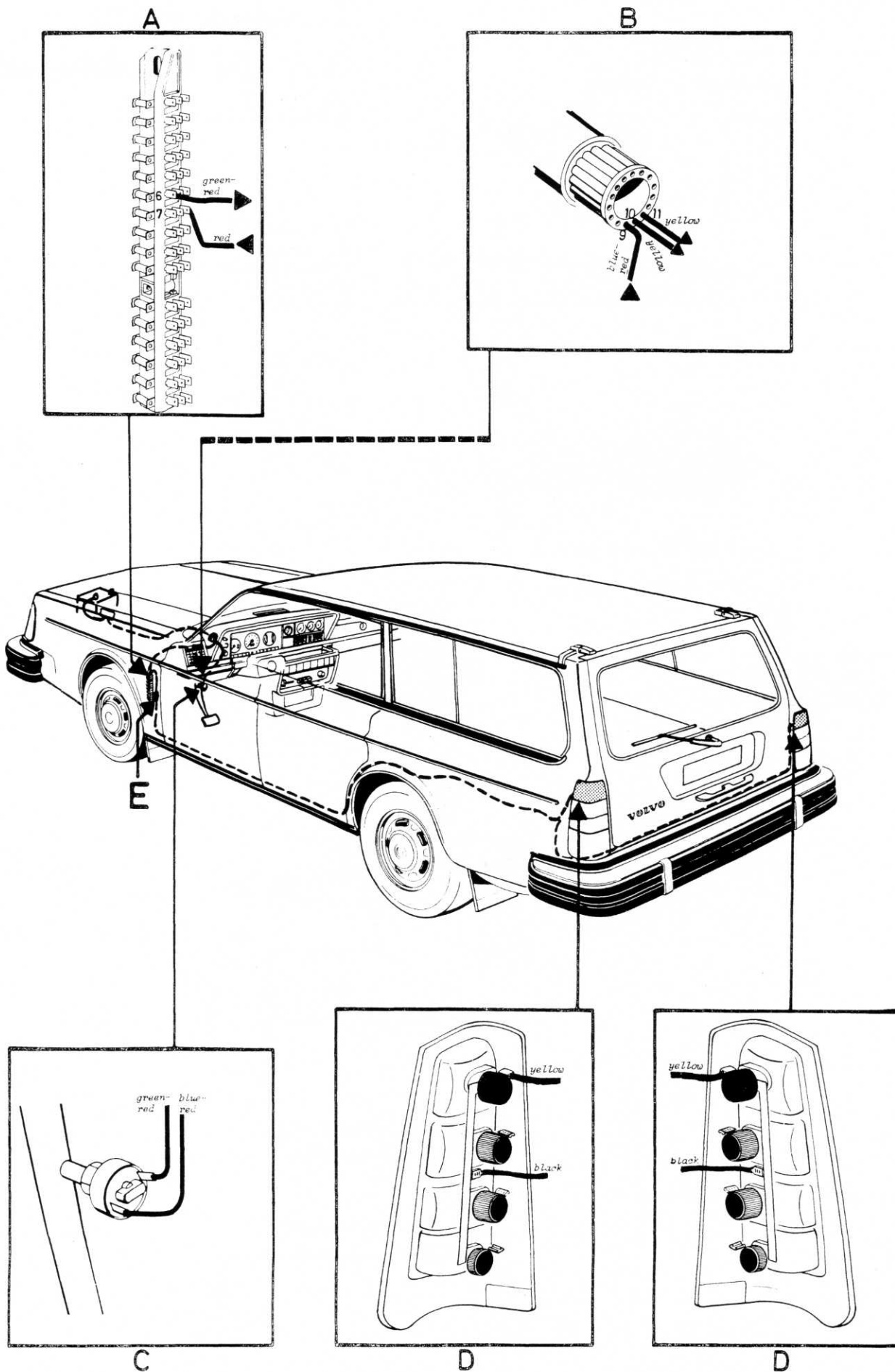


Fuse No. 6:
Brake light

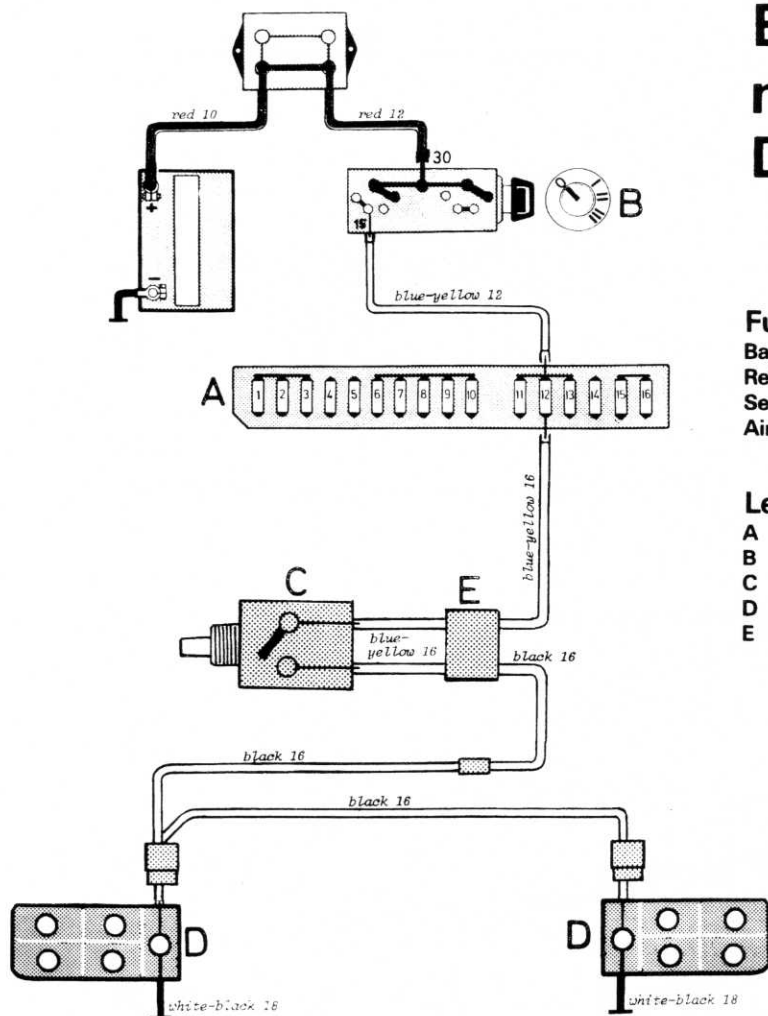
Legend:

- A Fuse box
- B Bulb failure sensor
- C Brake light switch
- D Brake lights
- E Connector



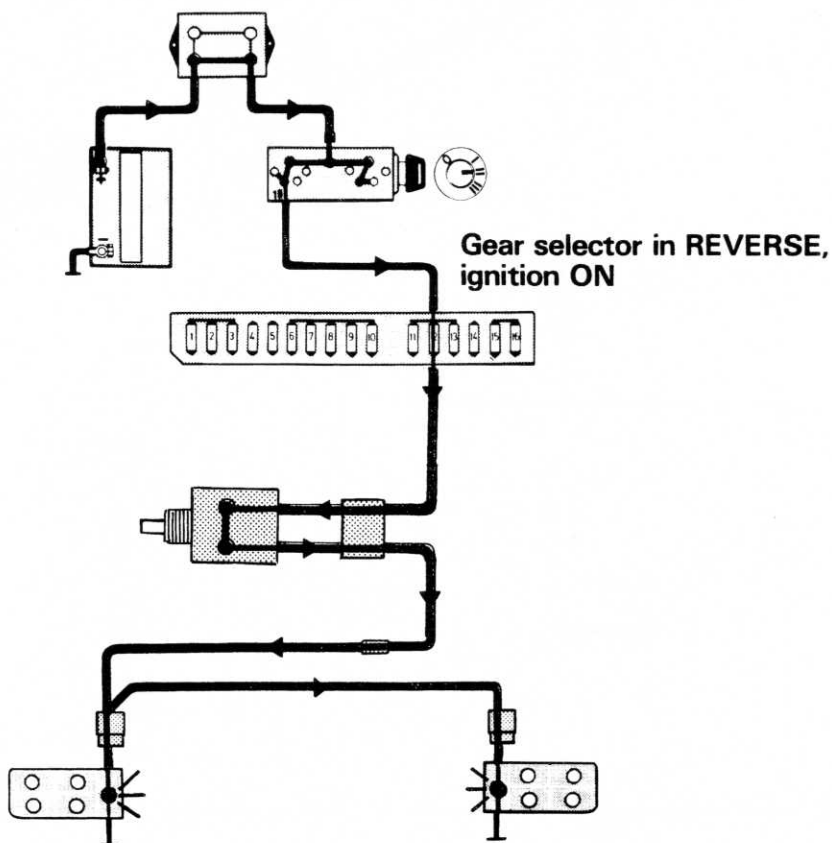


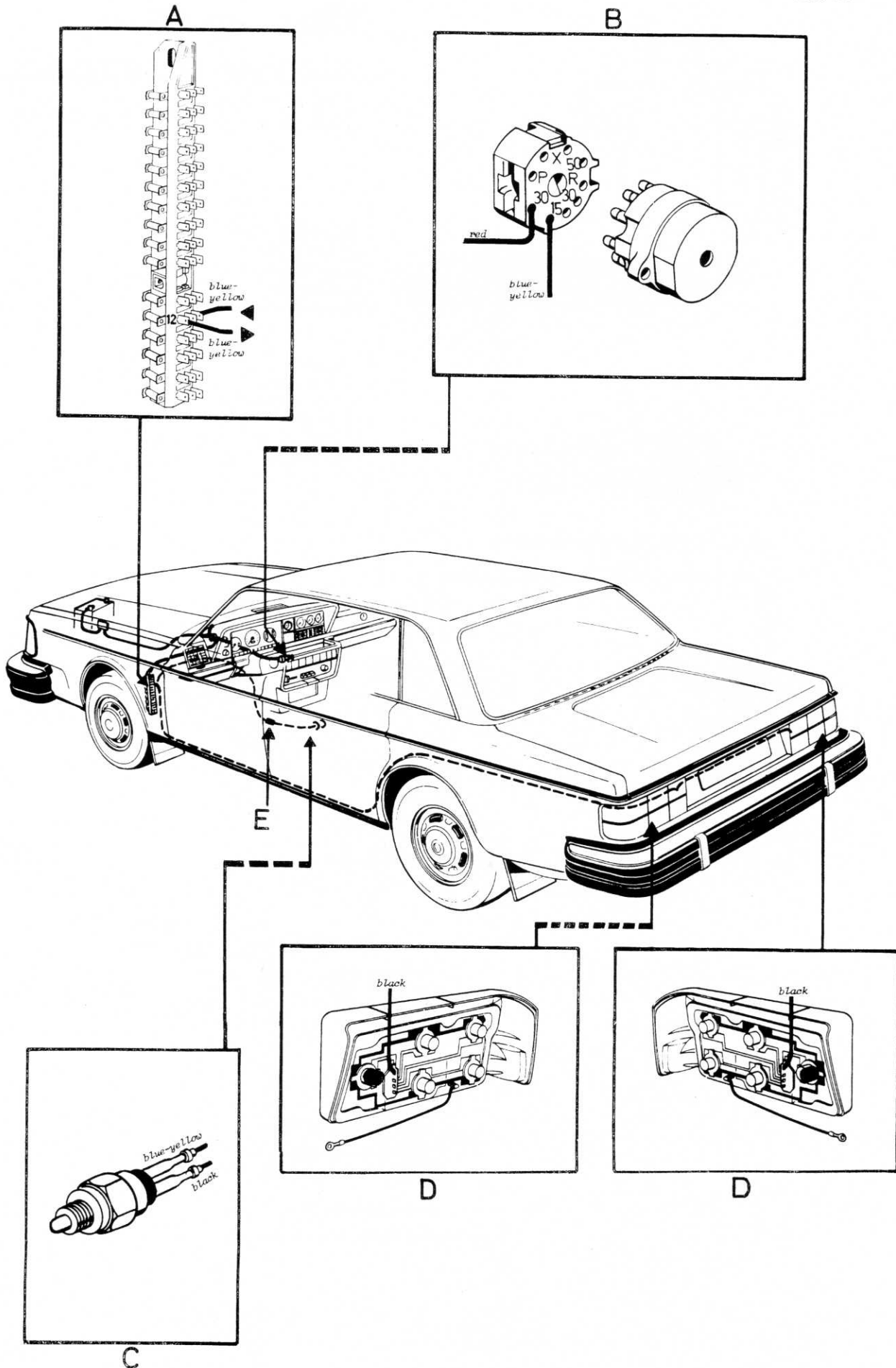
Back-up lights, manual transmission DL, GL



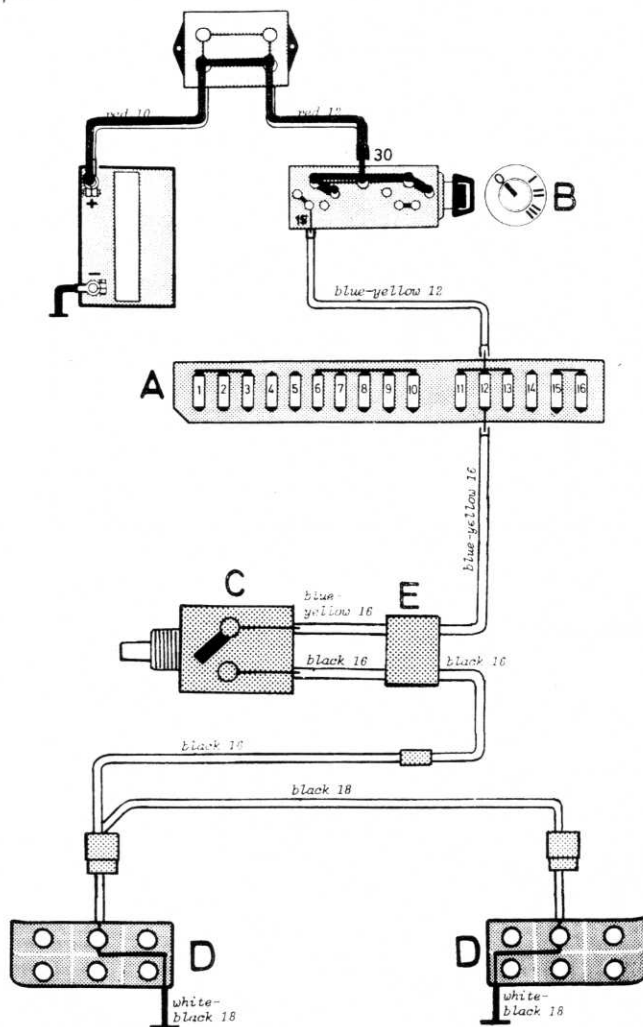
Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

Legend:
A Fuse box
B Ignition switch
C Back-up light switch
D Back-up lights
E Connector



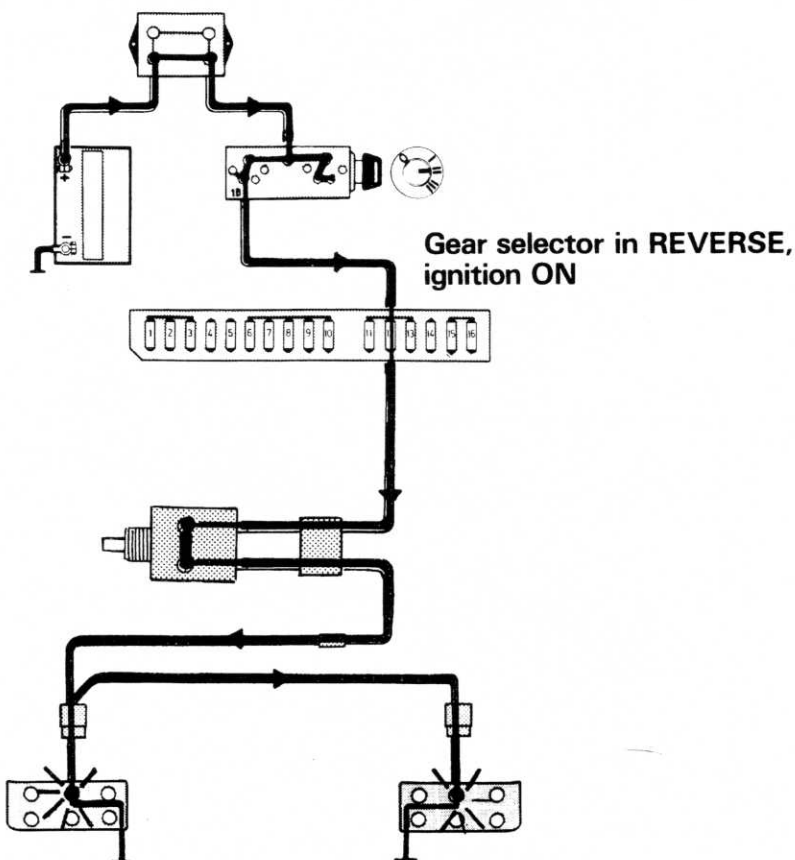


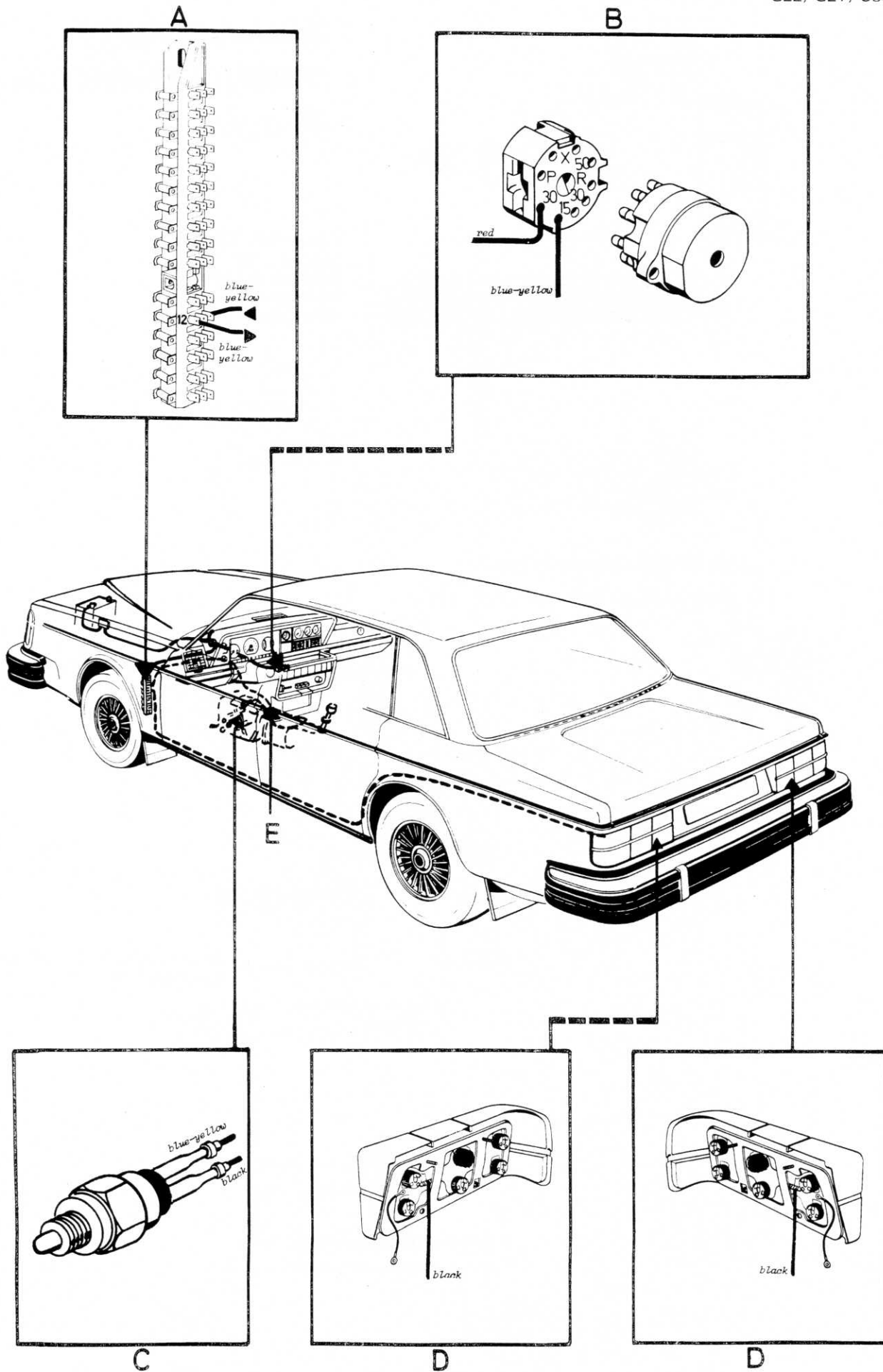
Back-up lights, manual transmission GLE, GLT, Coupe



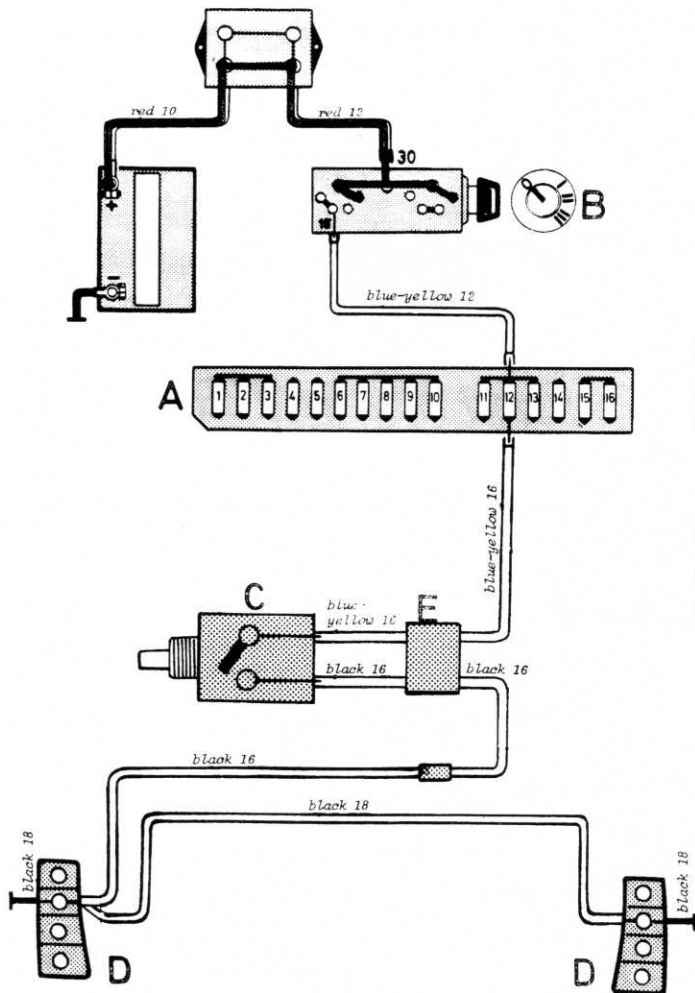
Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

Legend:
A Fuse box
B Ignition switch
C Back-up light switch
D Back-up light
E Connector





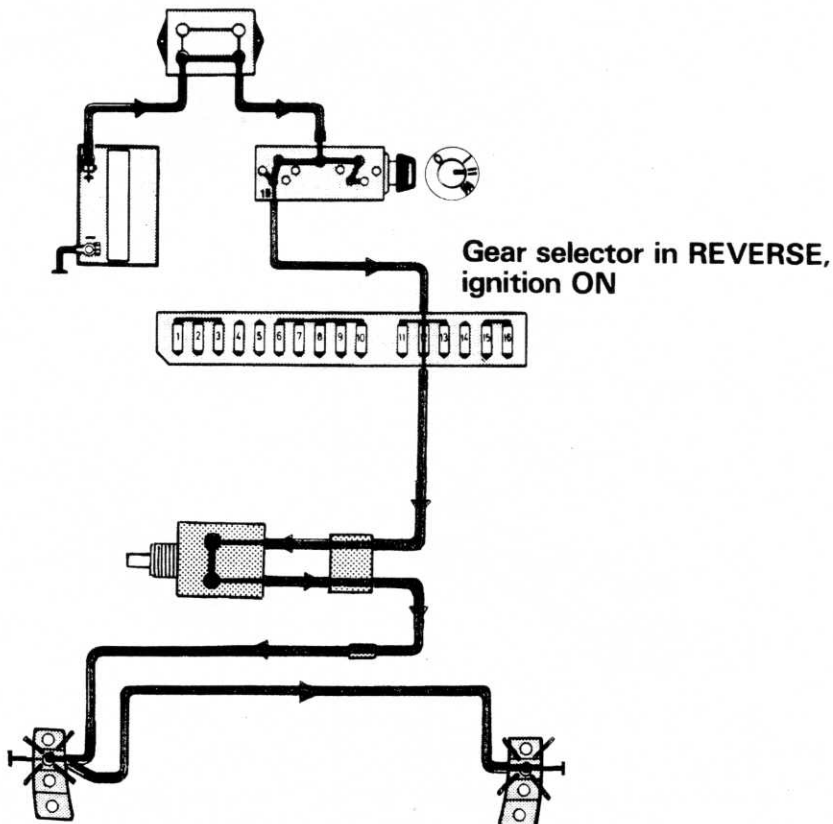
Back-up lights, manual transmission Wagon

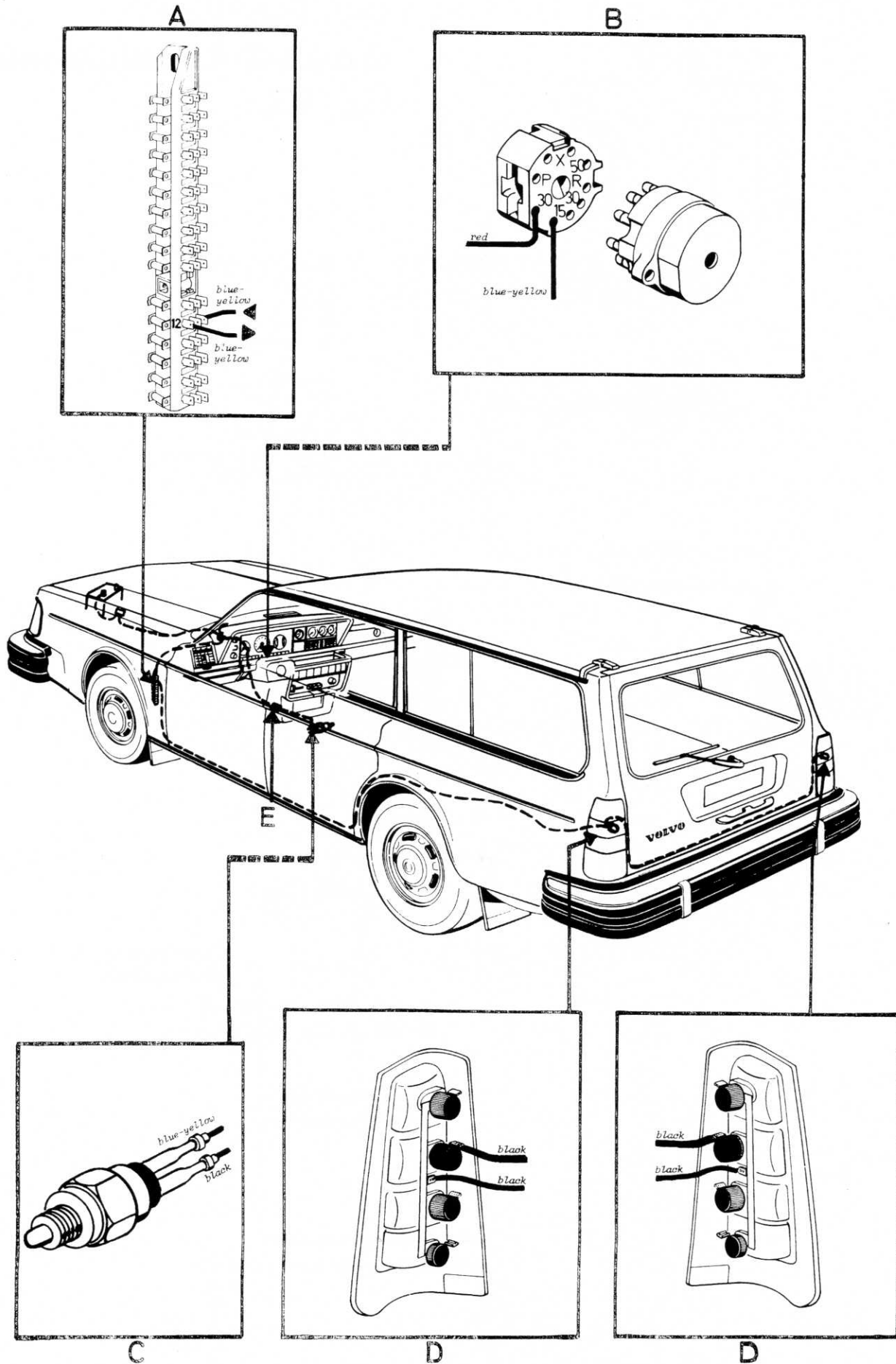


Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

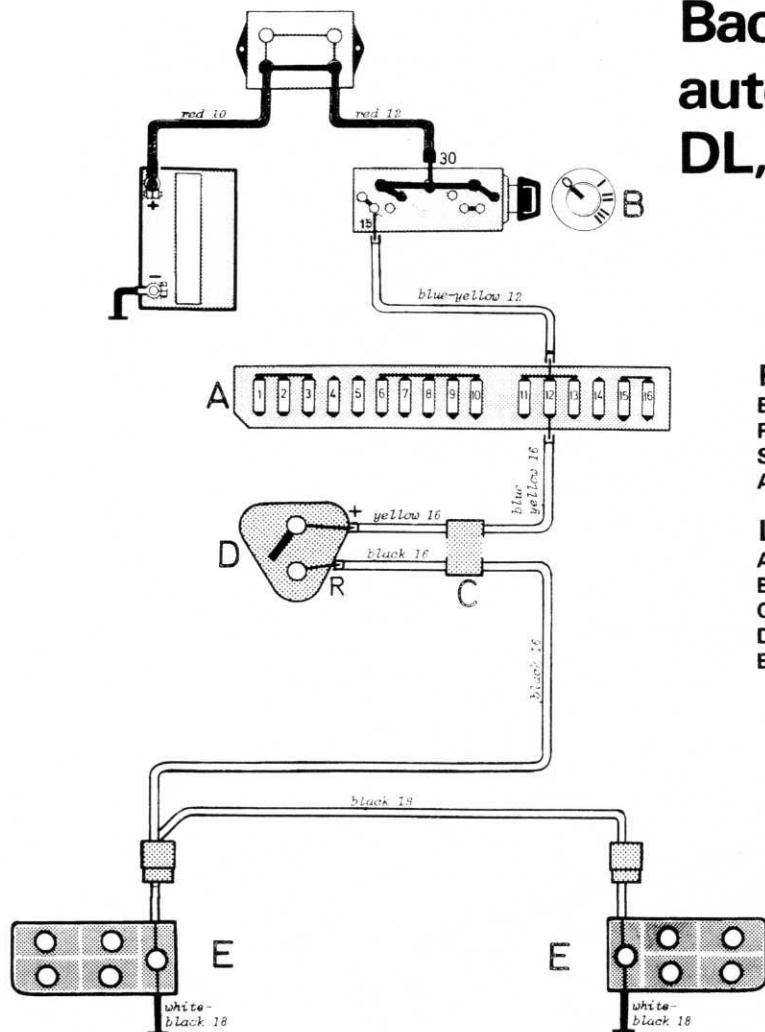
Legend:

- A Fuse box
- B Ignition switch
- C Back-up light switch
- D Back-up lights
- E Connector



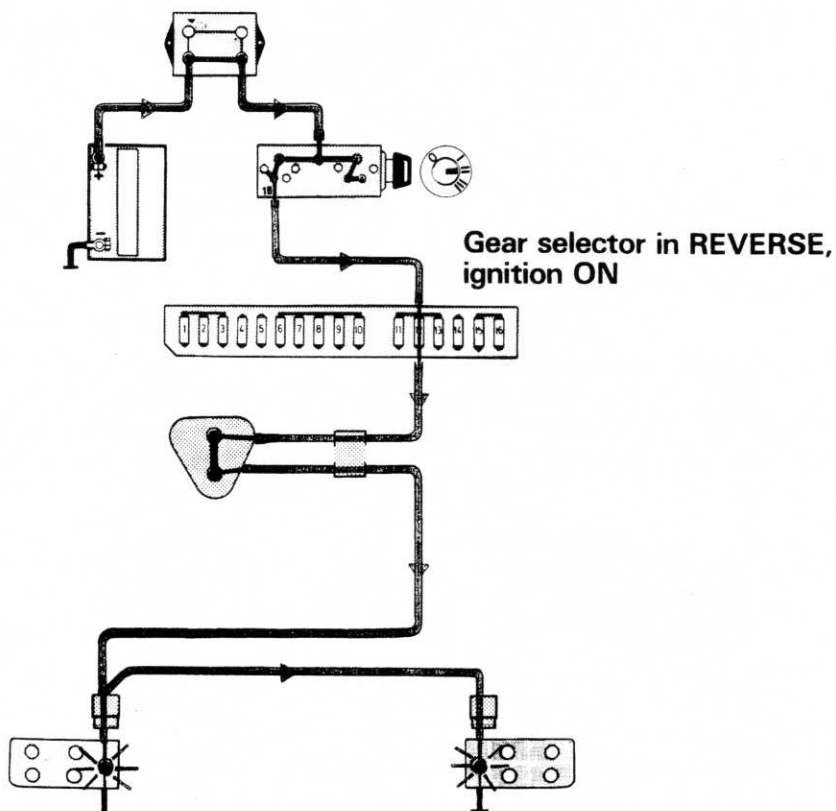


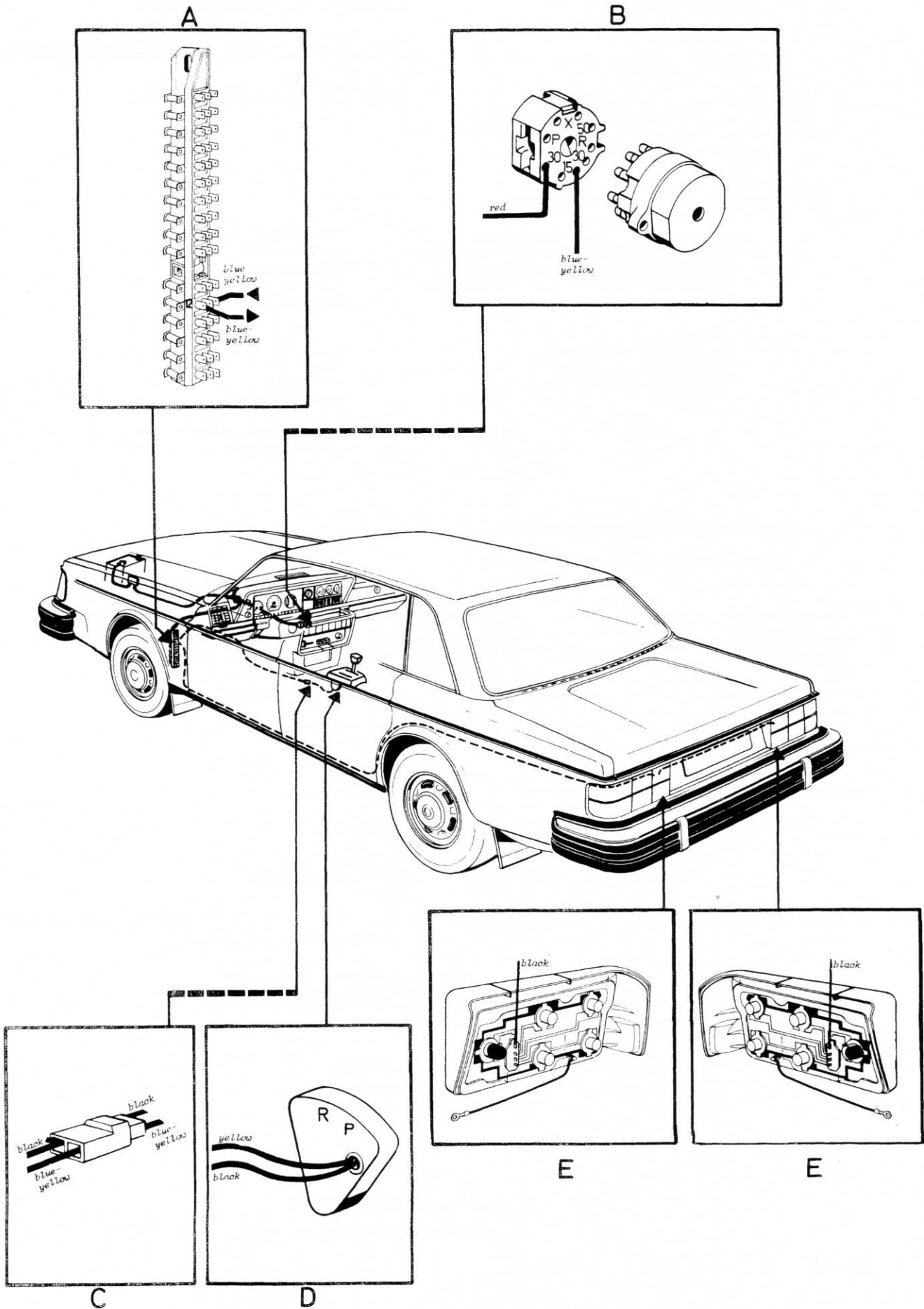
Back-up lights, automatic transmission DL, GL



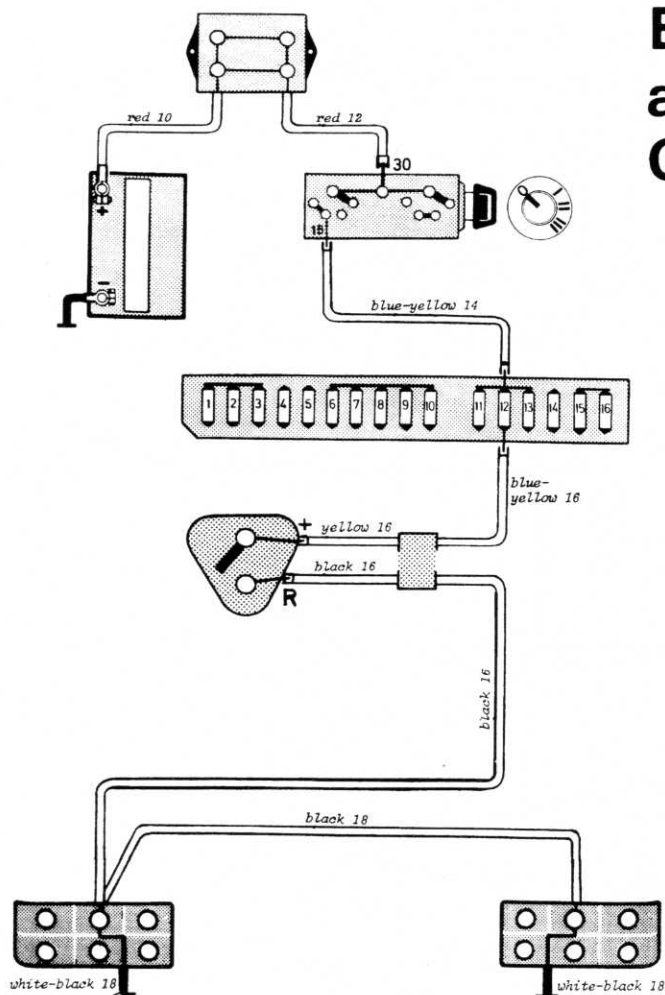
Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

Legend:
A Fuse box
B Ignition switch
C Connector
D Back-up light switch
E Back-up lights





Back-up lights, automatic transmission GLE, Coupe

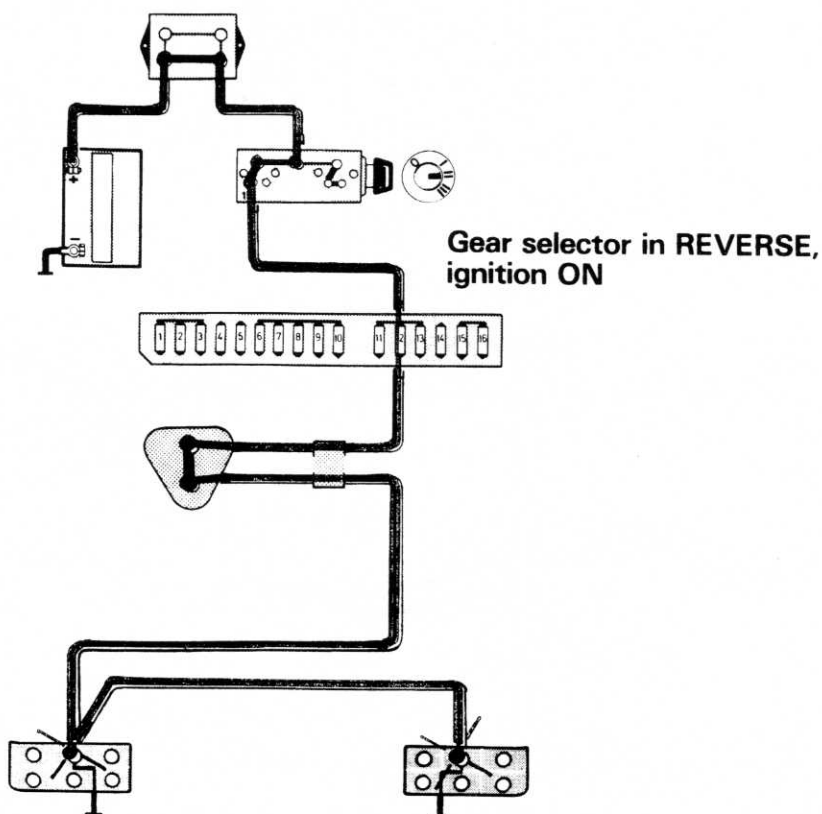


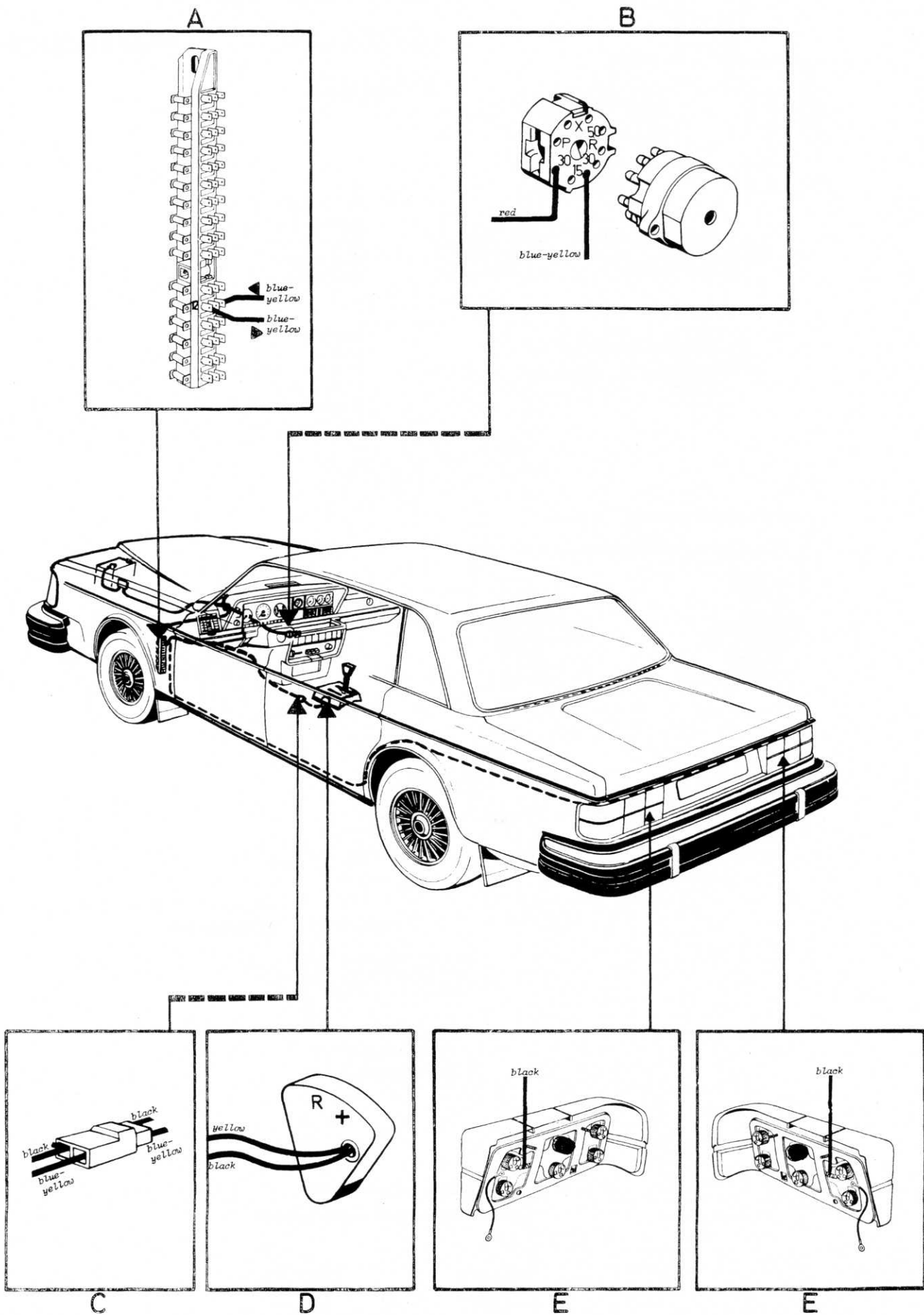
Fuse No. 12:

Back-up lights
Relay, window lifts
Seat heater
Air conditioning

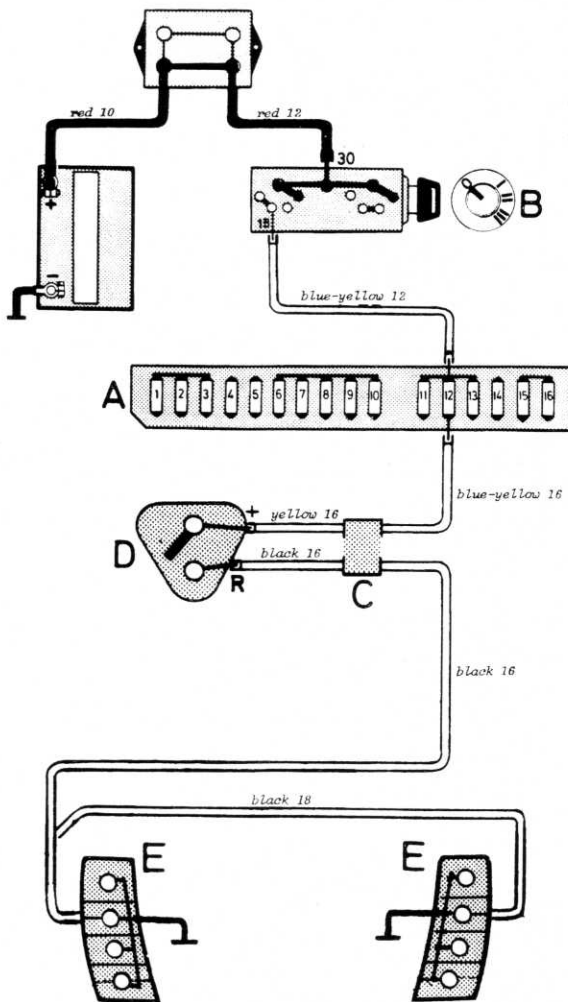
Legend:

- A Fuse box
- B Ignition switch
- C Connector
- D Back-up light switch
- E Back-up lights



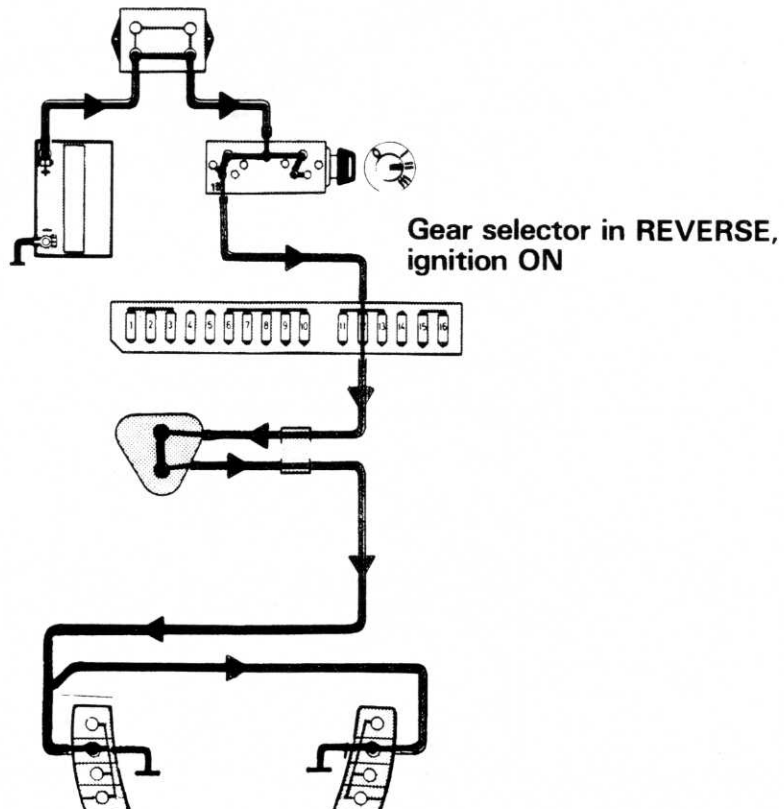


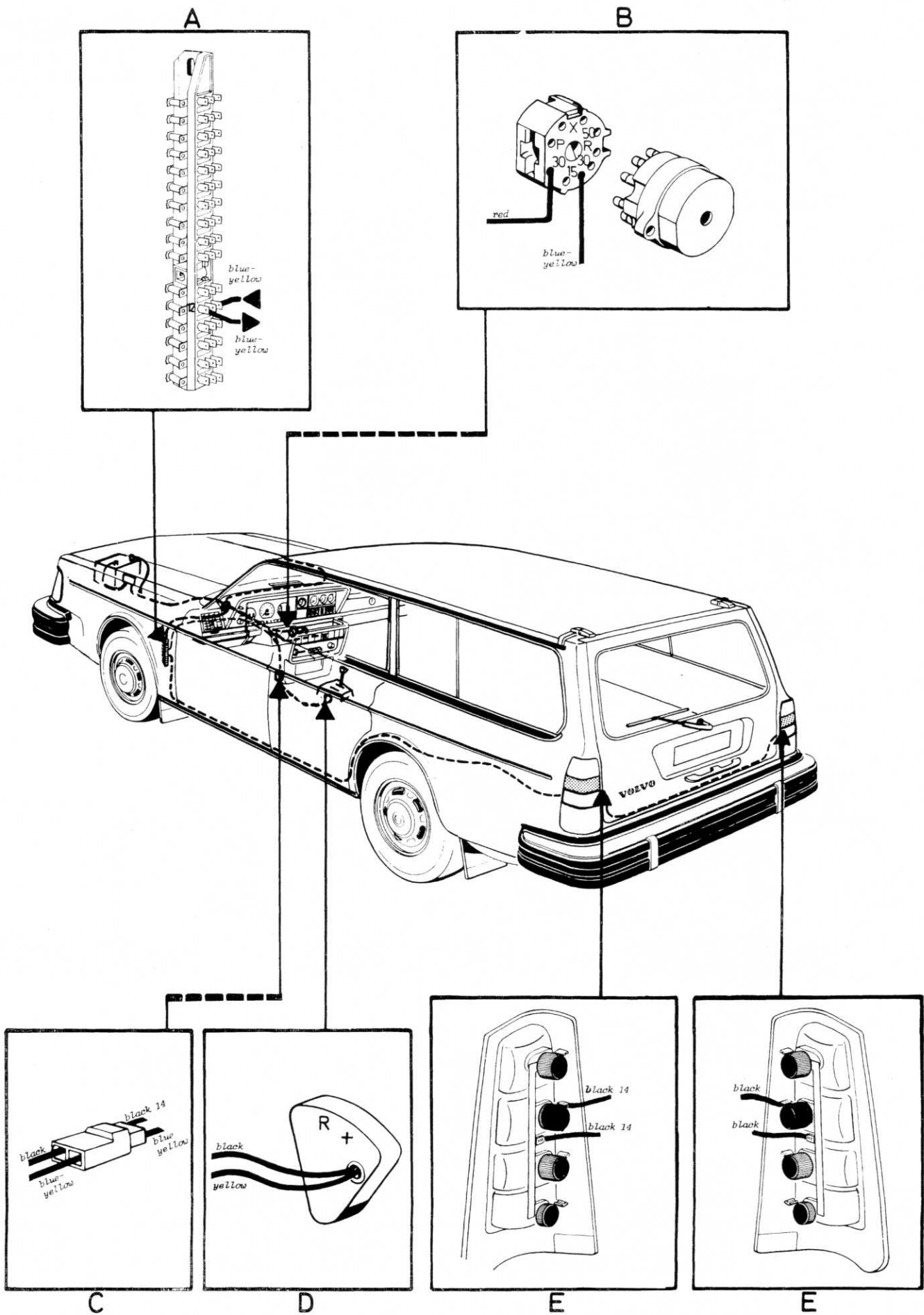
Back-up lights, automatic transmission Wagon



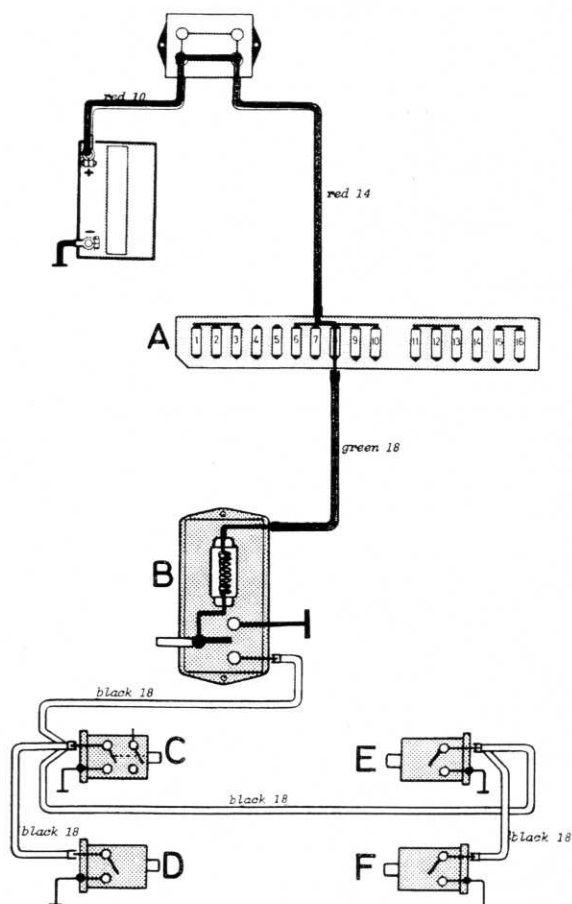
Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

Legend:
A Fuse box
B Ignition switch
C Connector
D Back-up light switch
E Back-up light



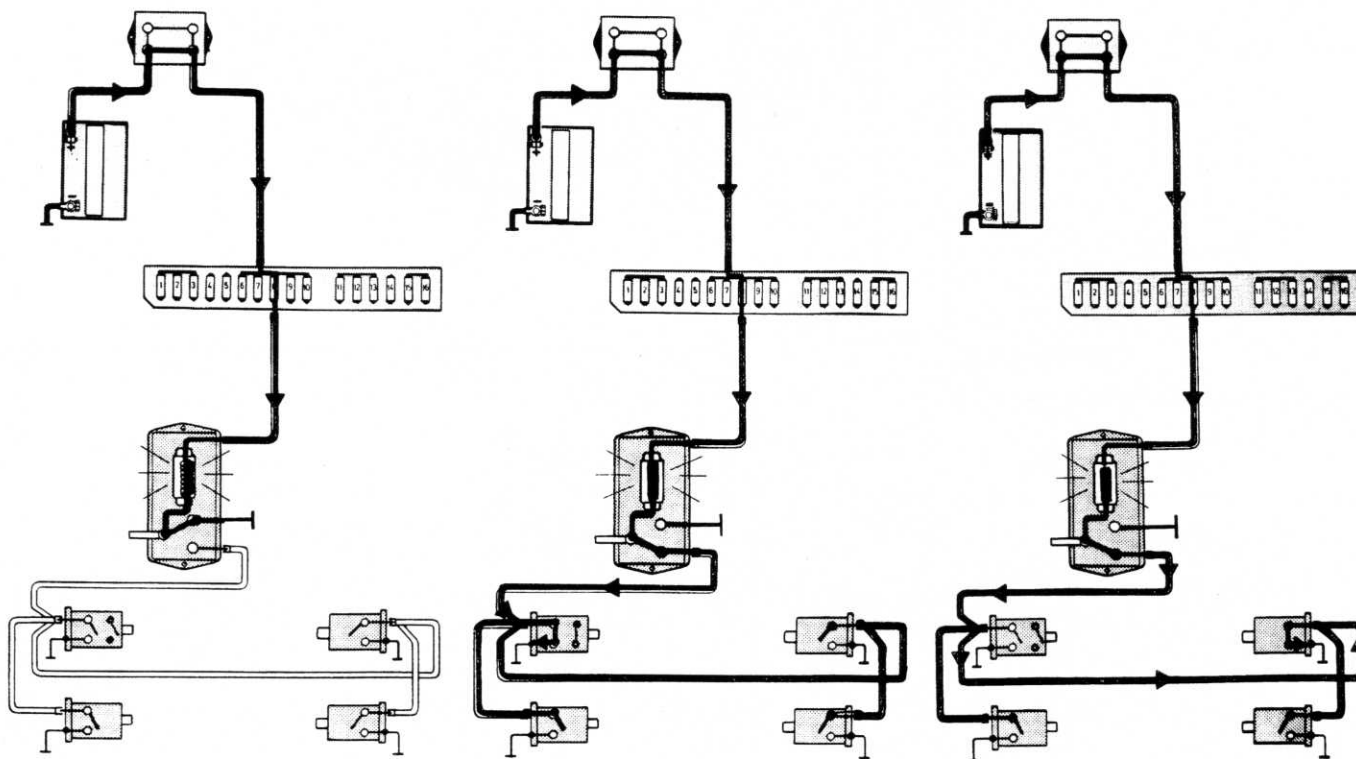


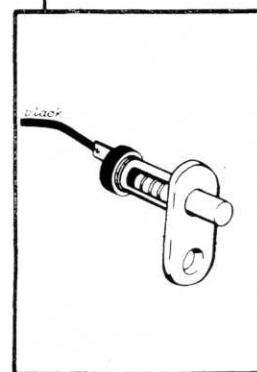
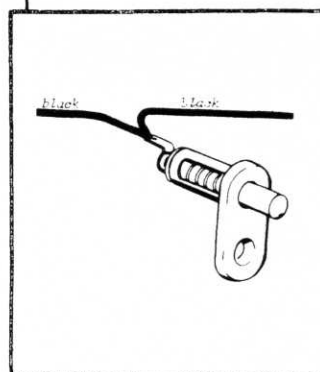
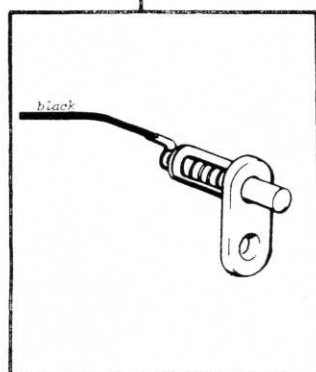
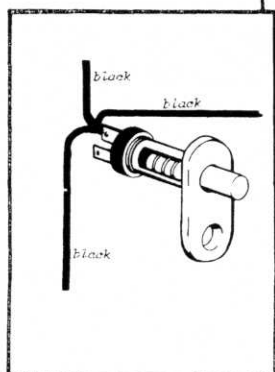
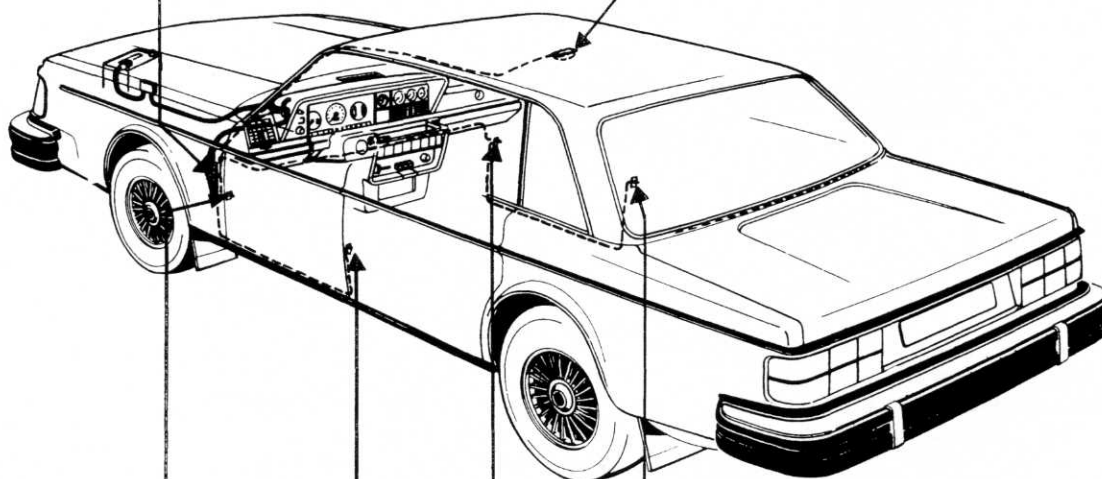
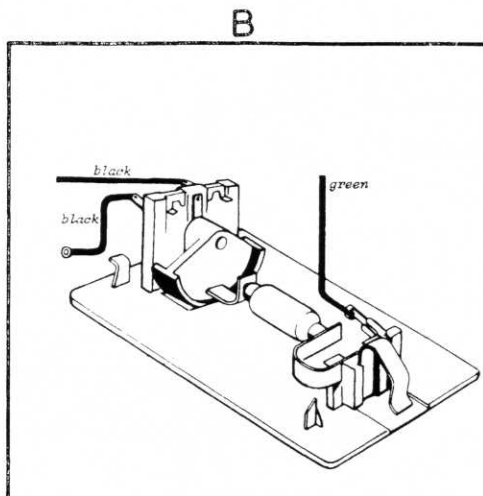
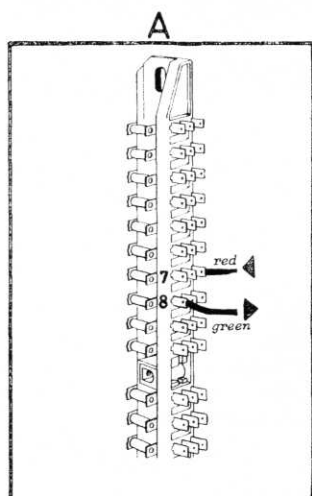
Interior light DL, GL, GLT



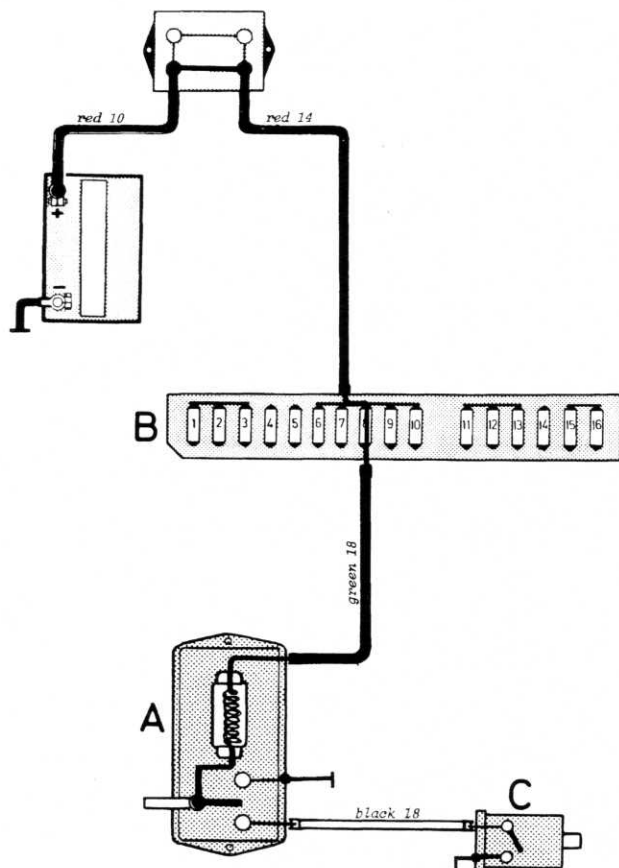
Fuse No. 8:
Interior light
Glove box light
Trunk light
Engine compartment light
Clock

Legend:
A Fuse box
B Interior light
Door switches:
C Front left
D Rear left
E Front right
F Rear right





Rear interior light Wagon



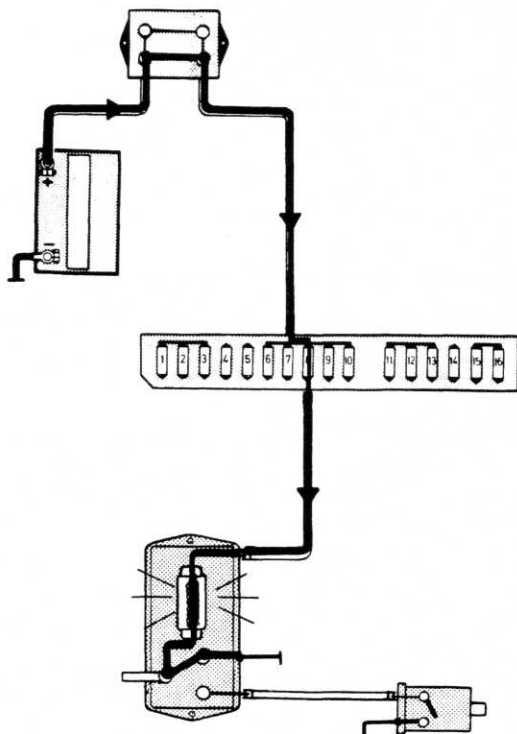
Fuse No. 8:

Interior light
Glove box light
Trunk light
Engine compartment light
Clock

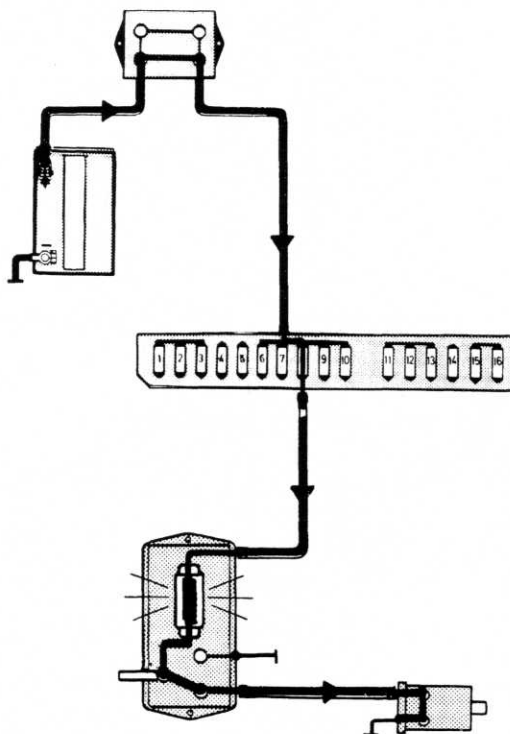
Legend:

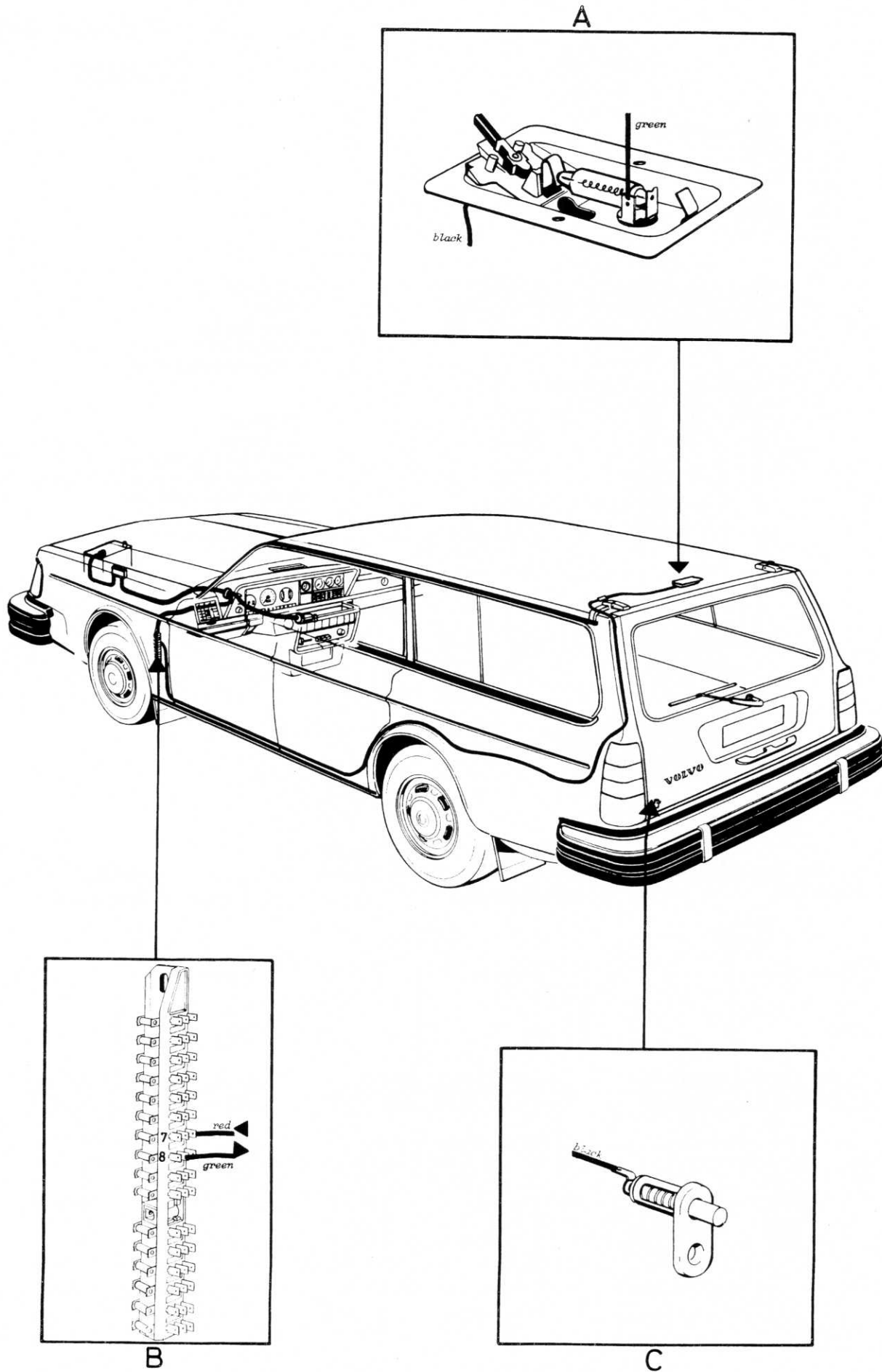
A Rear interior light
B Fuse box
C Tail gate switch

Tail gate closed,
rear interior light ON

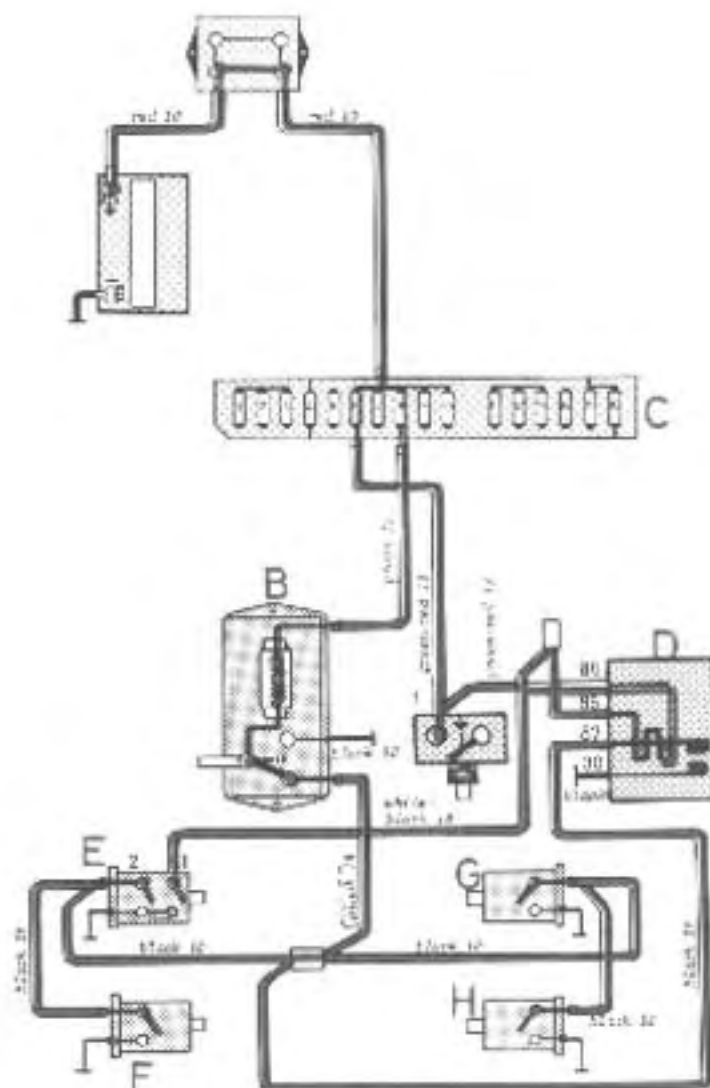


Tail gate opened





Delayed interior light GLE, GLT (High Level)



Fuse No. 6:

Brake light

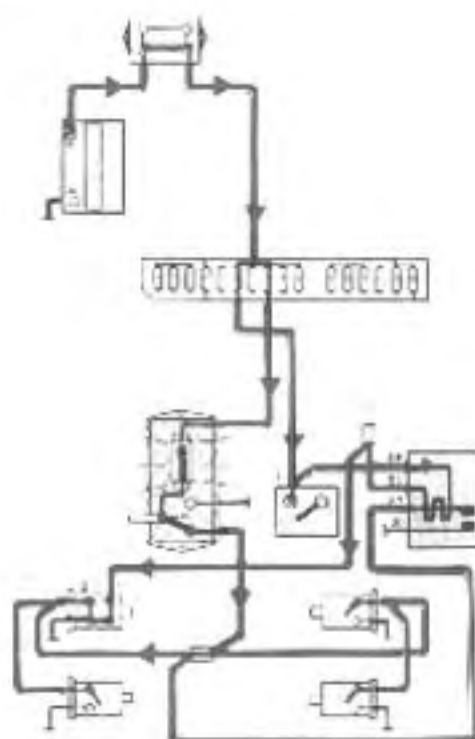
Fuse No. 8:

Interior light
Glove box light
Trunk light
Engine compartment light
Clock

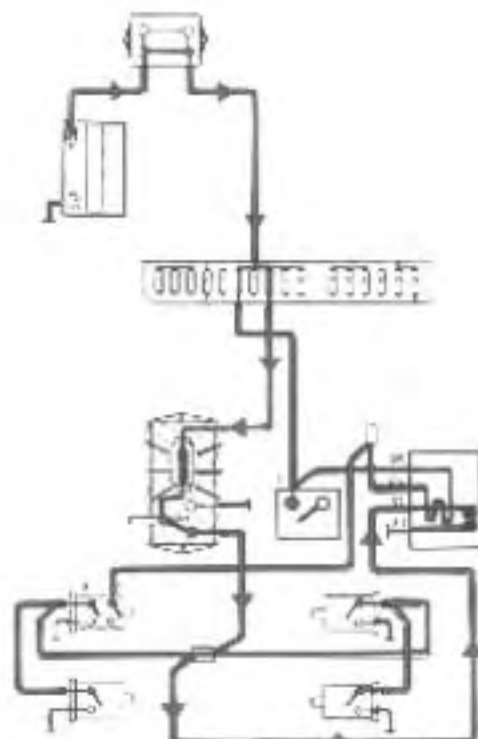
Legend:

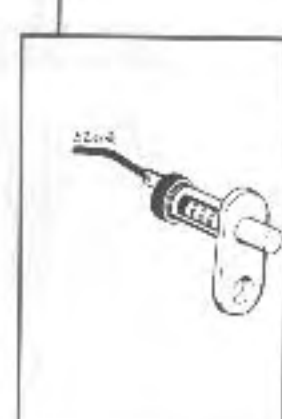
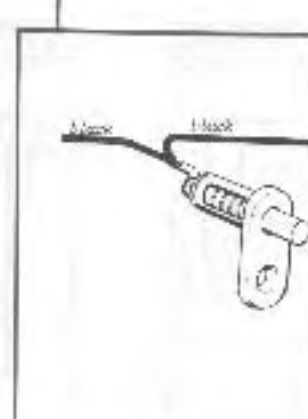
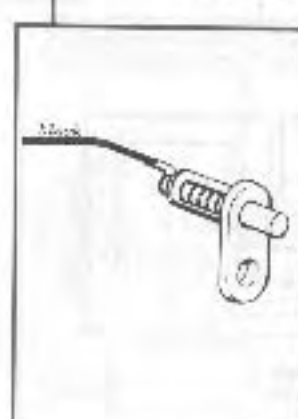
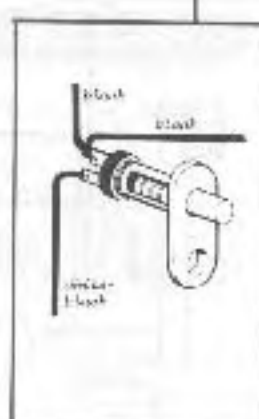
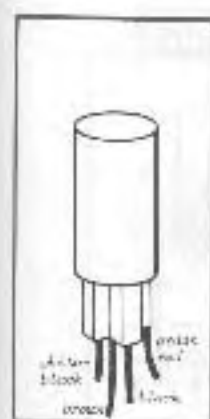
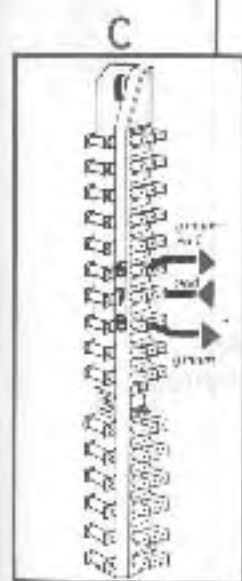
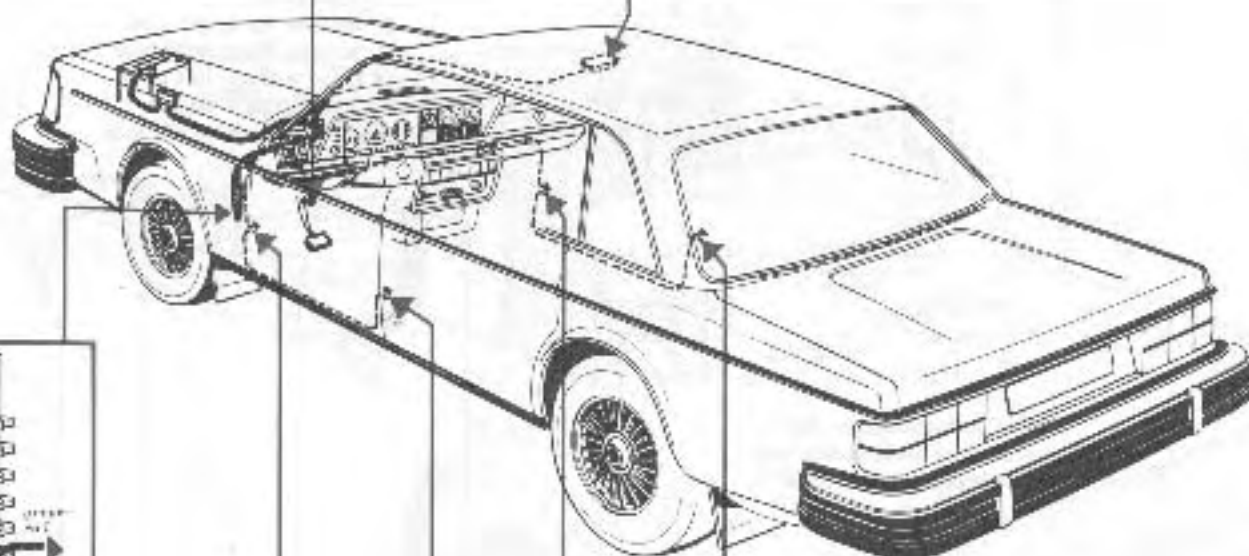
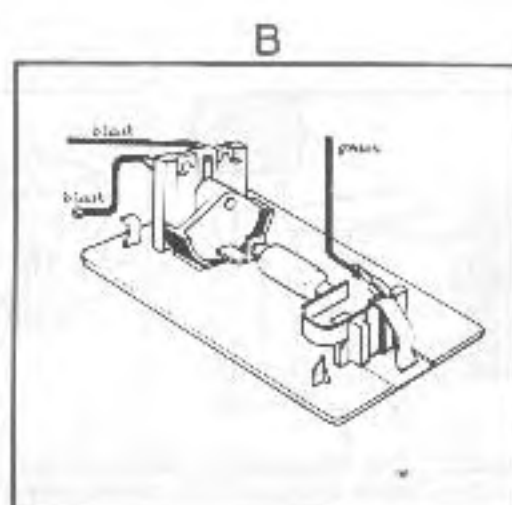
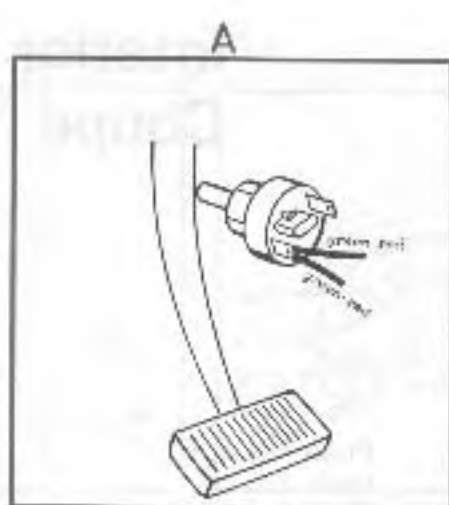
A Brake light switch
B Interior light
C Fuse box
D Delay relay
Door switches:
E Left side, front
F Left side, rear
G Right side, front
H Right side, rear

Opening left side front door.
Contacts in delay relay close by bi-metal action.

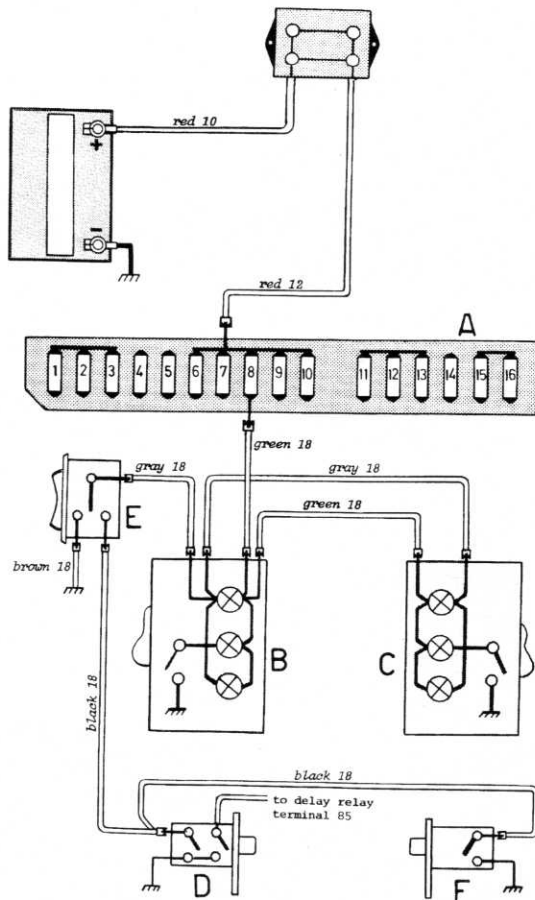


Left side front door closed again.
Interior light will stay on for 10-17 seconds if door was open for minimum 6 seconds.





Interior light Coupe



Fuse No. 8

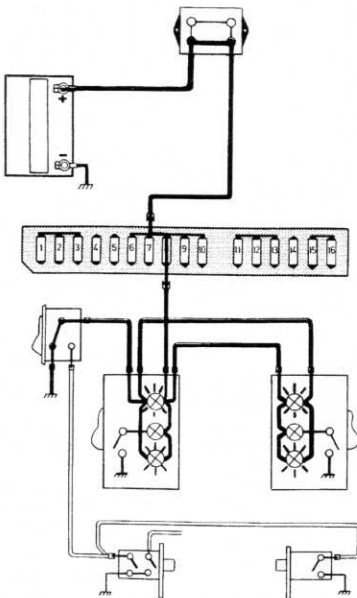
Clock
Glove box light
Interior light
Hazard warning flasher

Legend:

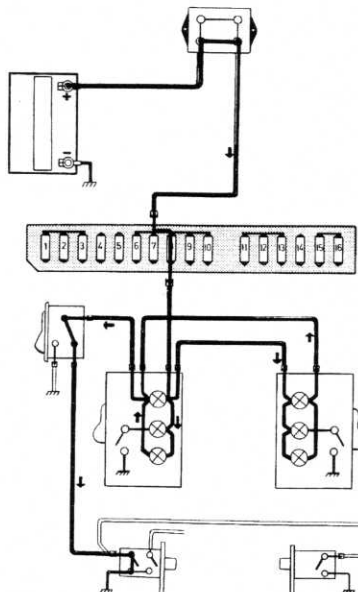
- A Fuse box
- B Interior light, left side
- C Interior light, right side
- D Door switch, left door
- E Interior light switch
- F Door switch, right door

For connections at left
side door switch also see
"Delayed Interior Light".

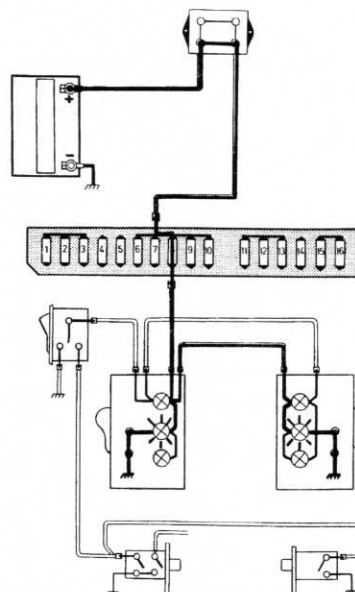
Switch on steering column in
POS 1. Light ON

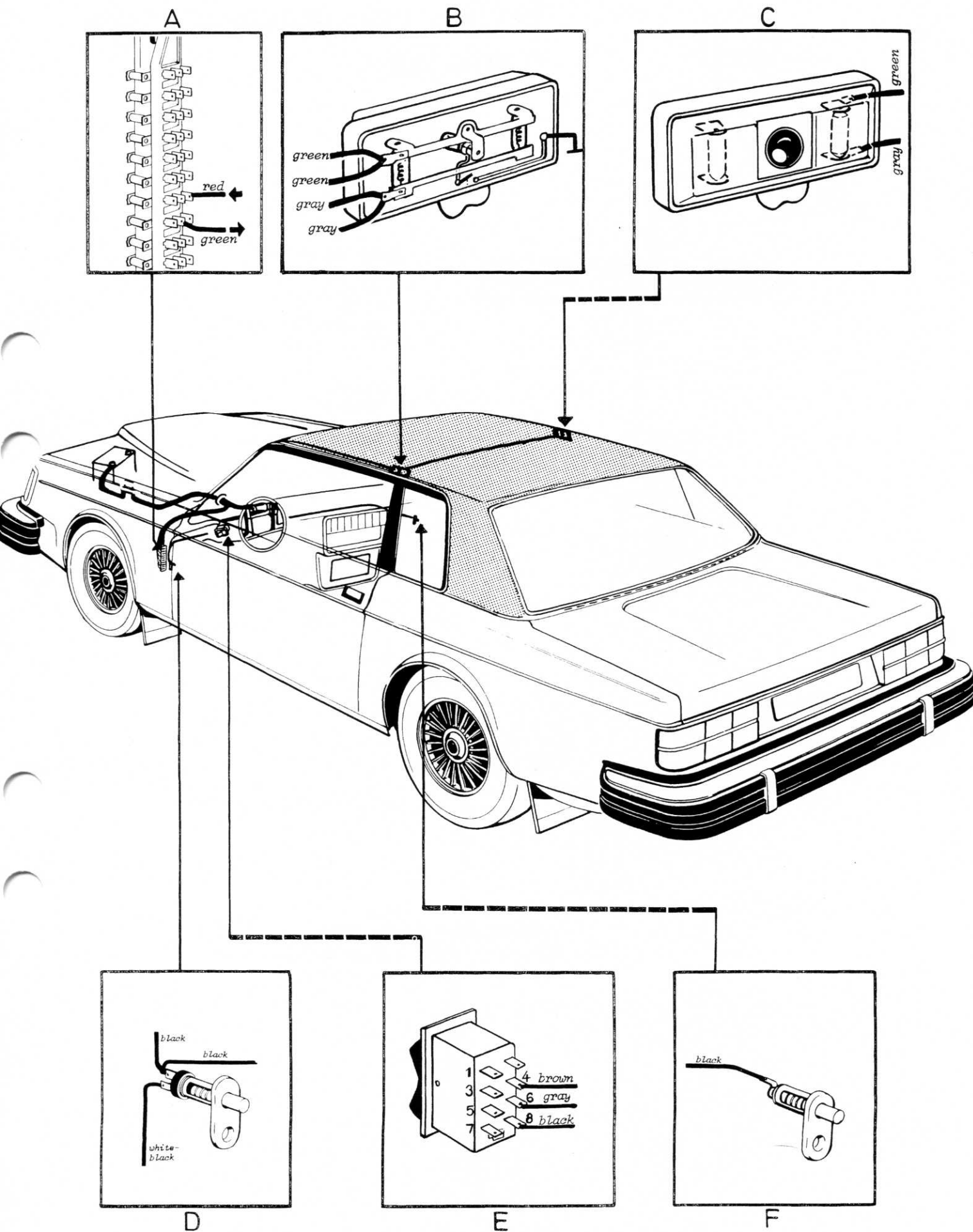


Switch on steering column
in POS 2. Light ON with
any door open.

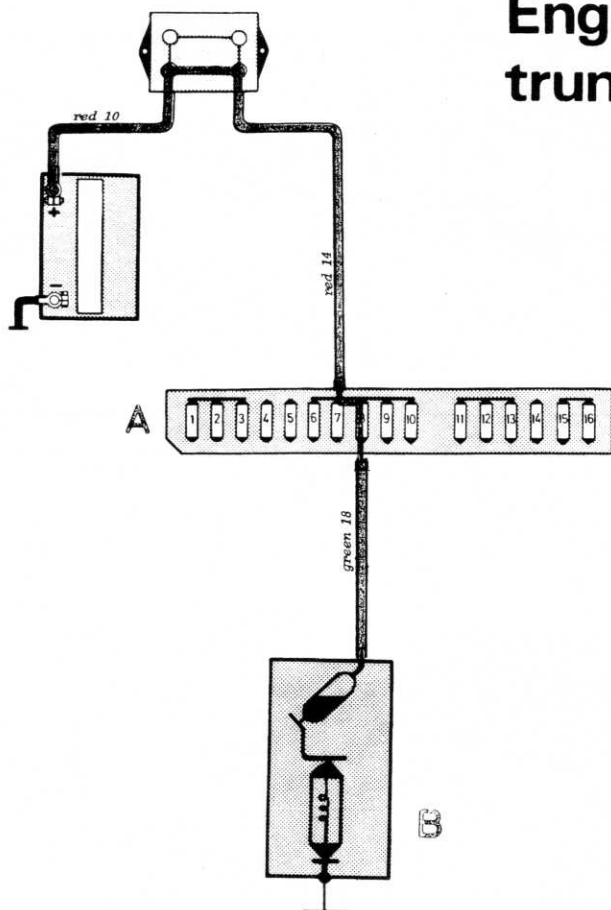


Lamp switch ON.
Spotlights illuminated.





Engine compartment light, trunk light

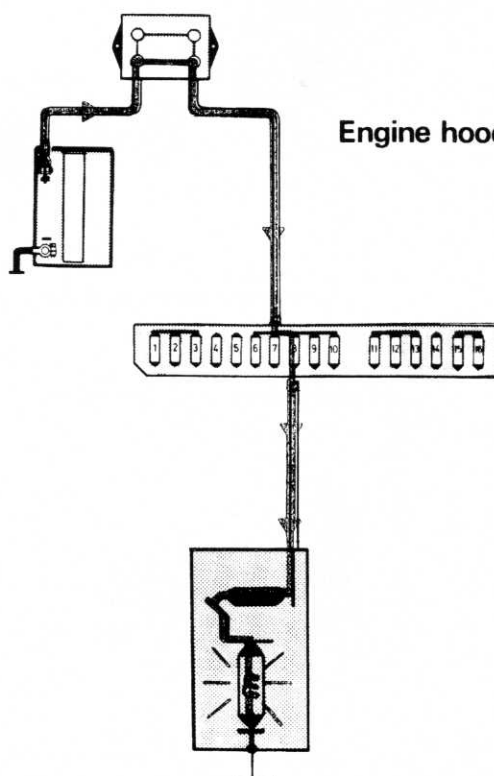


Fuse No. 8:

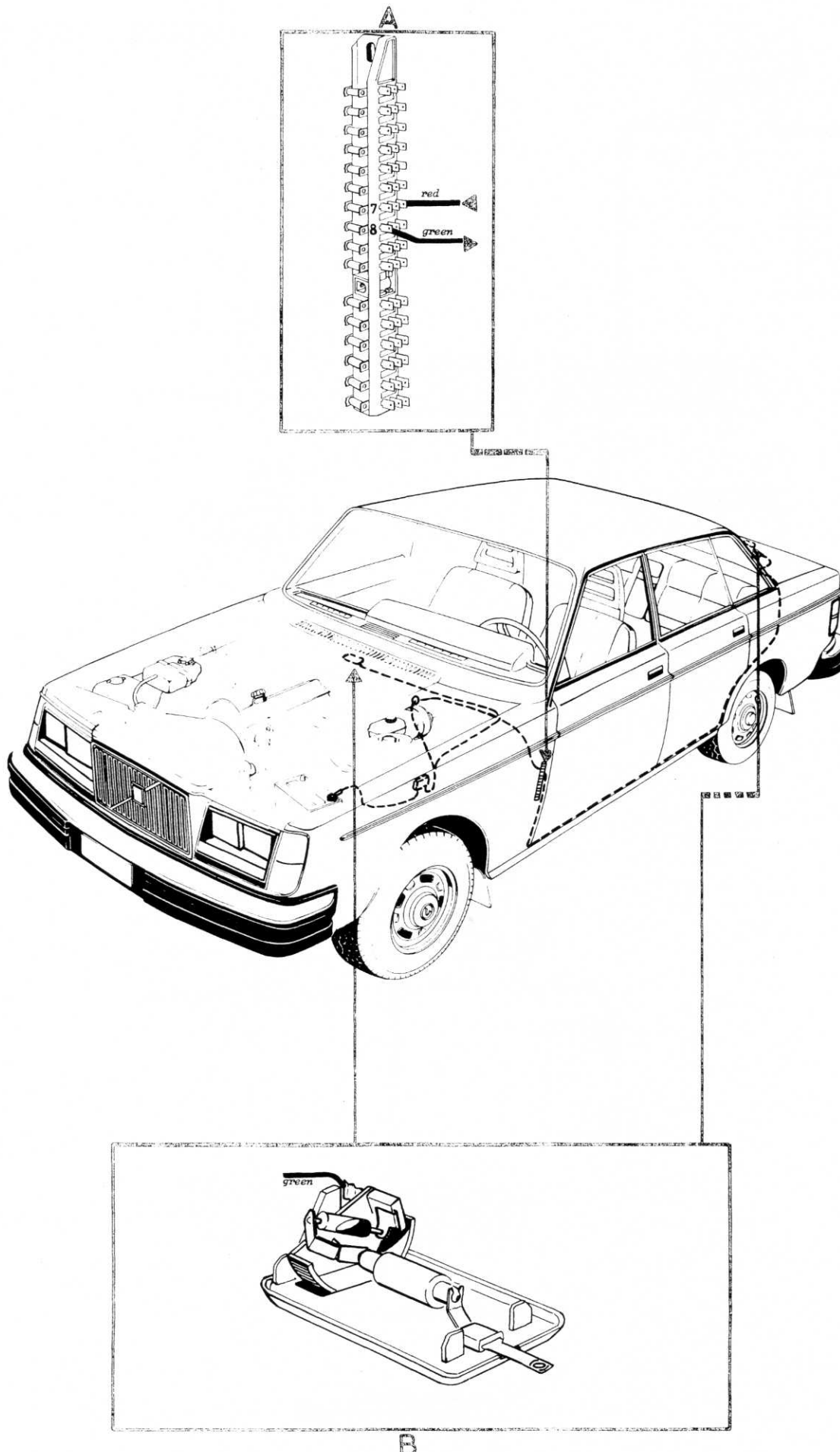
Interior light
Glove box light
Trunk light
Engine compartment light
Clock

Legend:

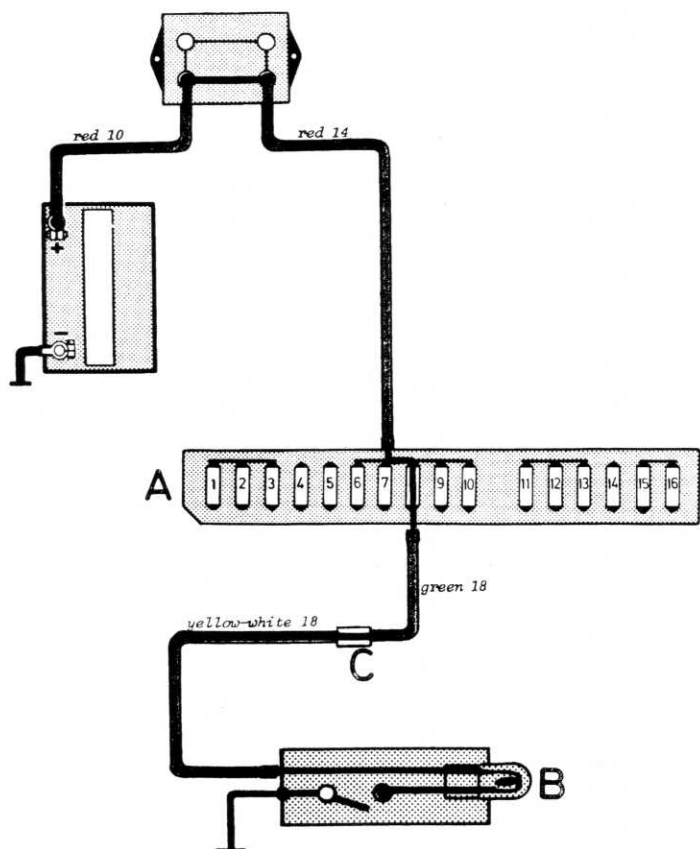
A Fuse box
B Engine compartment
light and/or trunk light



Engine hood/trunk opened



Glove box light

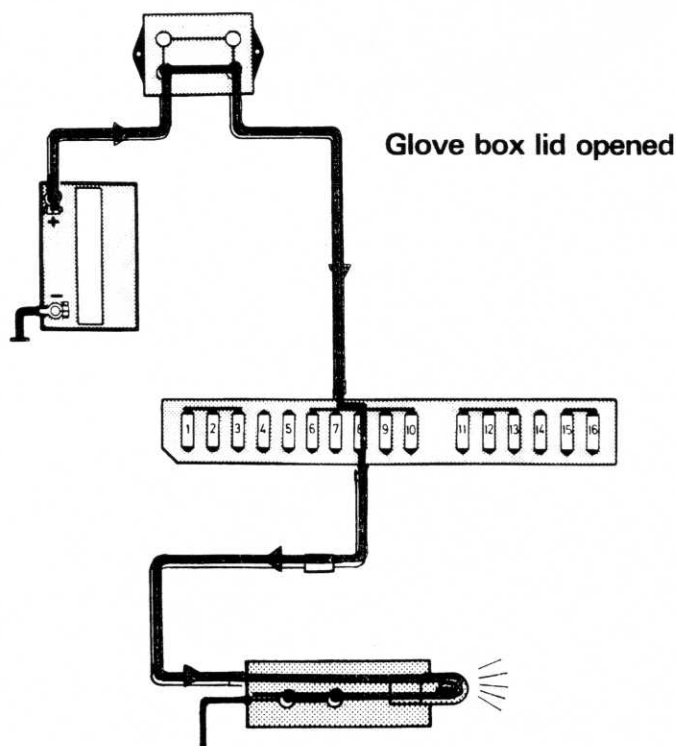


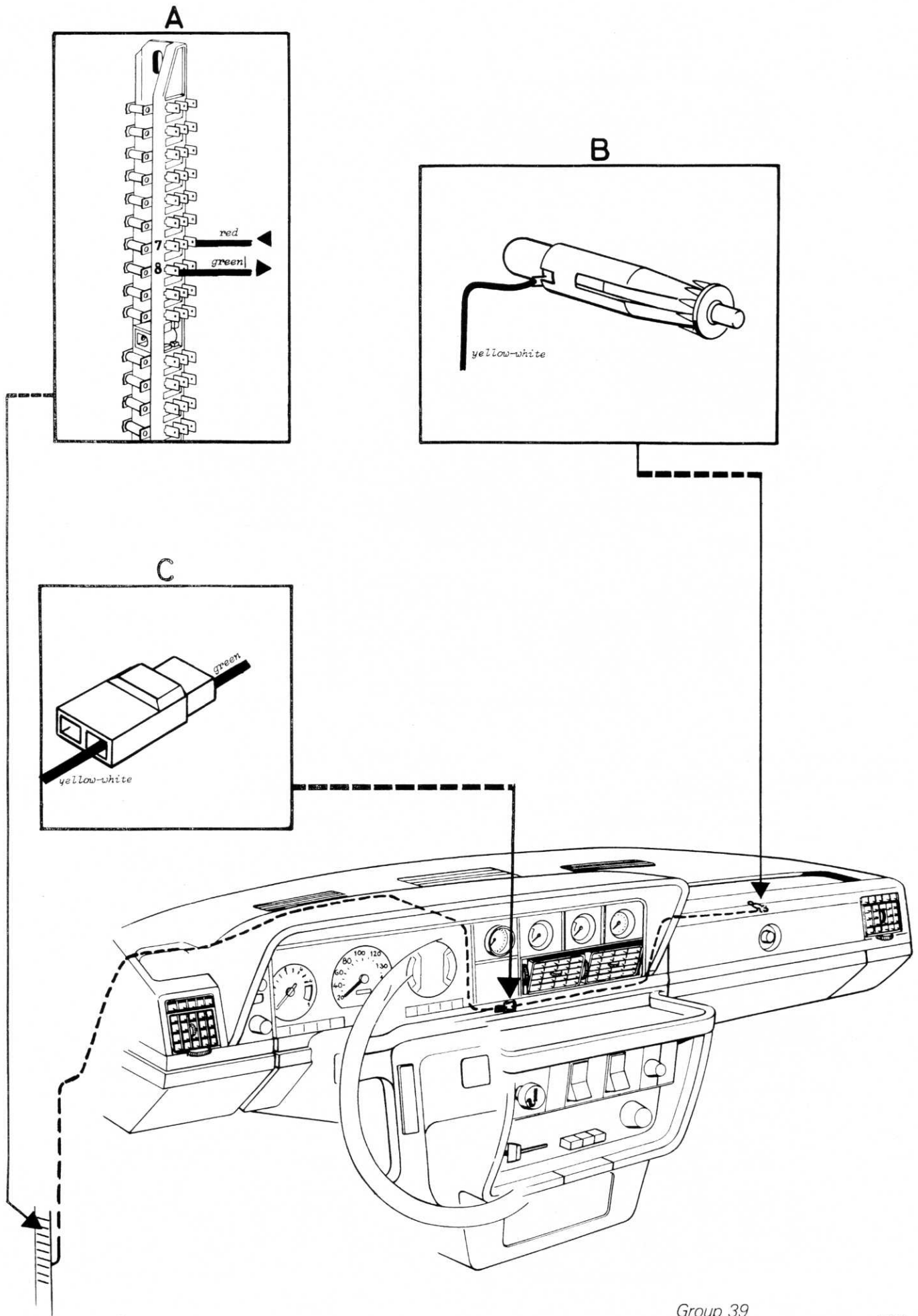
Fuse No. 8:

Interior light
Glove box light
Trunk light
Engine compartment light
Clock

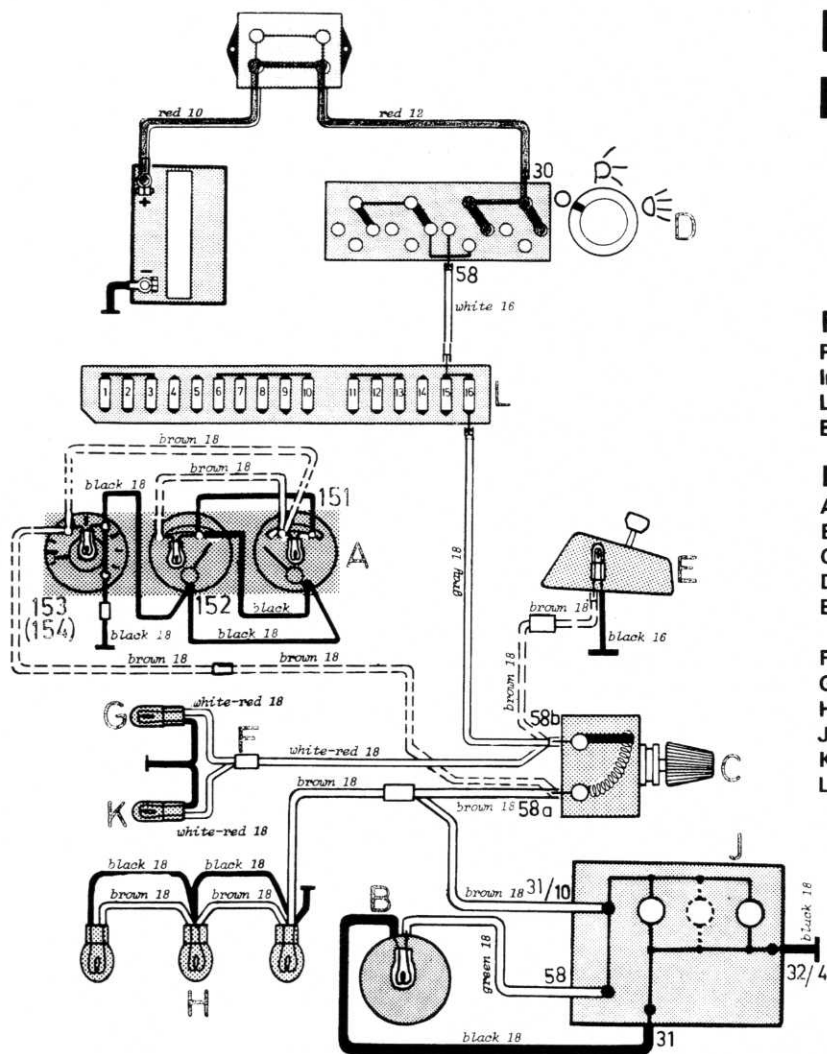
Legend:

A Fuse box
B Glove box light
C Connector





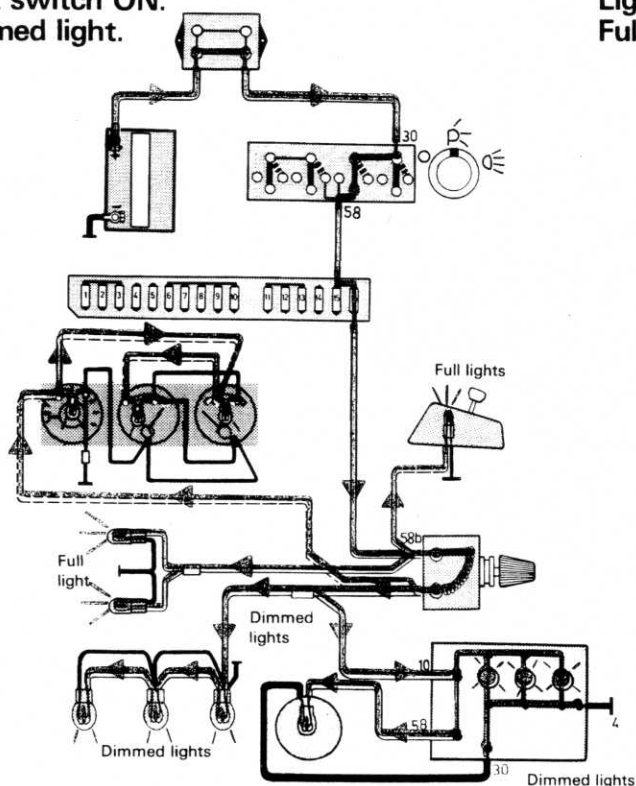
Instrument lights, lights on controls



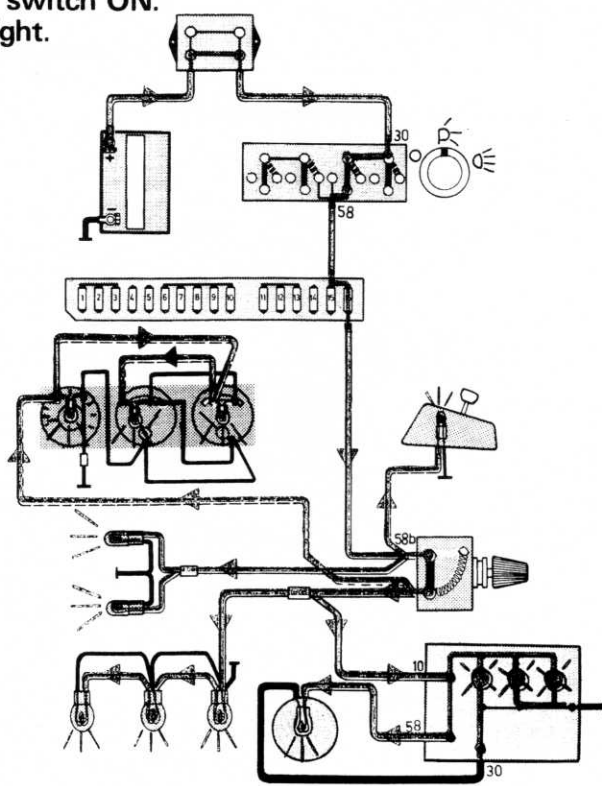
Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

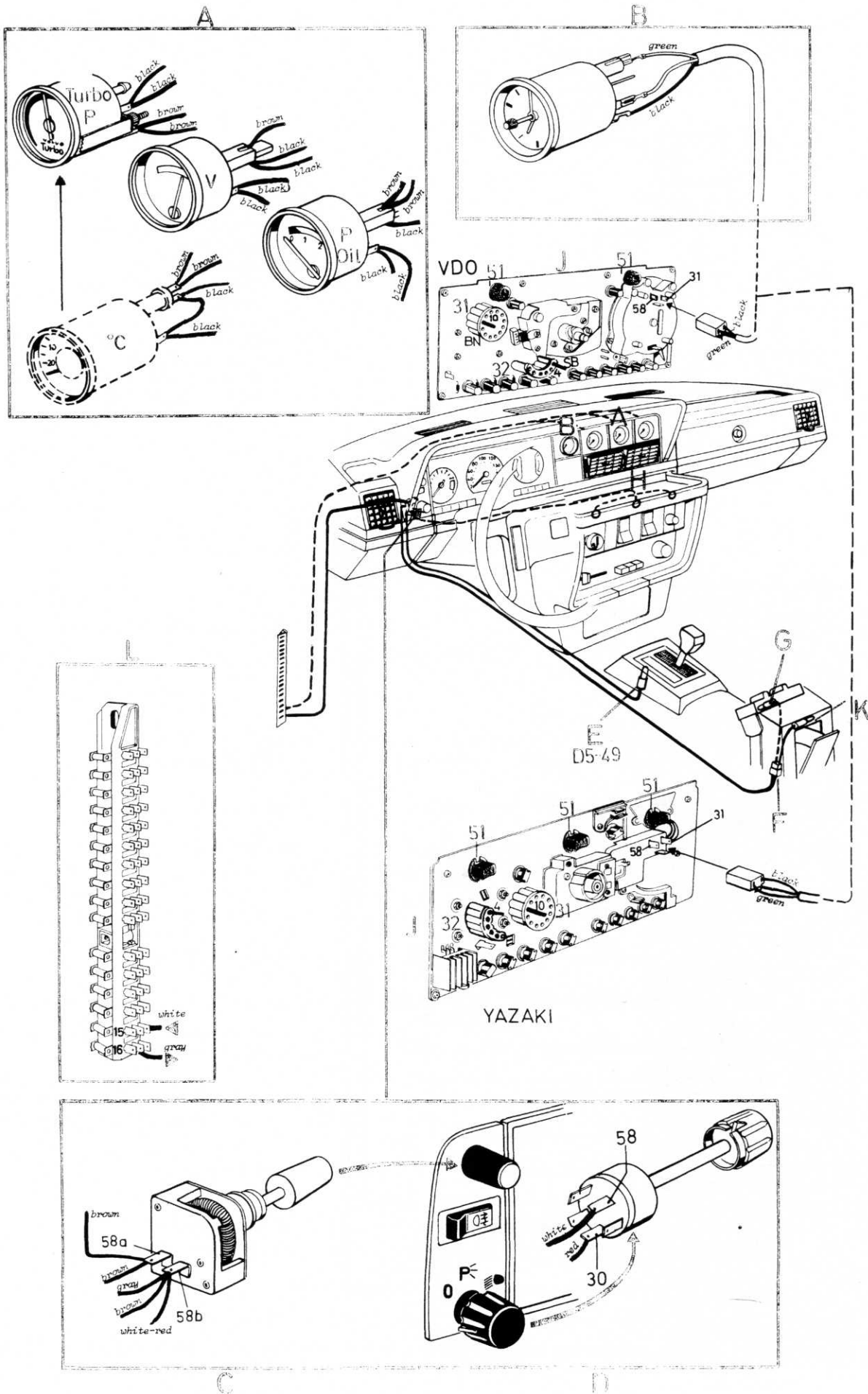
- Legend:**
- A Instrument lights
 - B Clock
 - C Rheostat
 - D Light switch
 - E Gear selector light
(automatic transmission)
 - F Connector
 - G Seat belt lock light
 - H Lights on controls
 - J Instrument lights
 - K Ash tray light
 - L Fuse box

**Light switch ON.
Dimmed light.**



**Light switch ON.
Full light.**





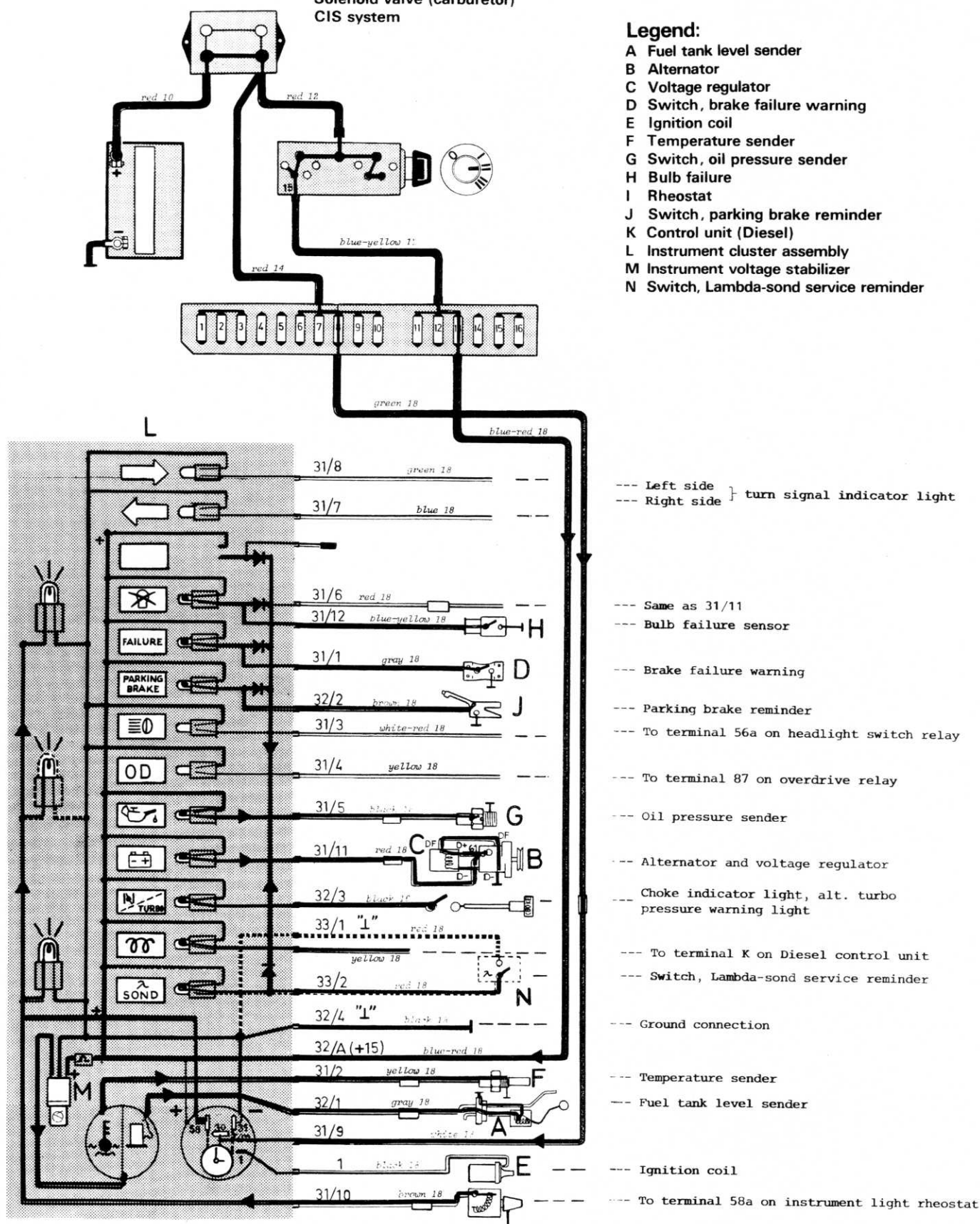
Fuse No. 6:
Brake lights

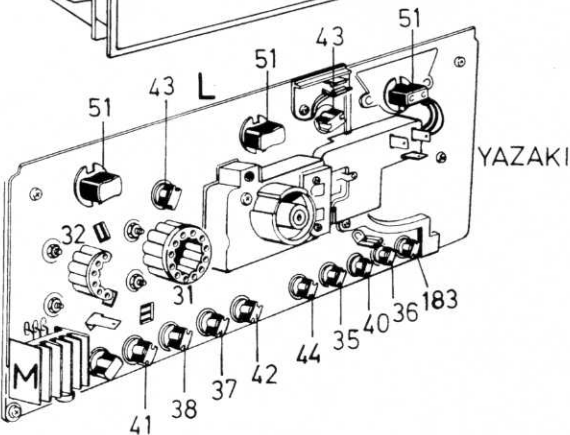
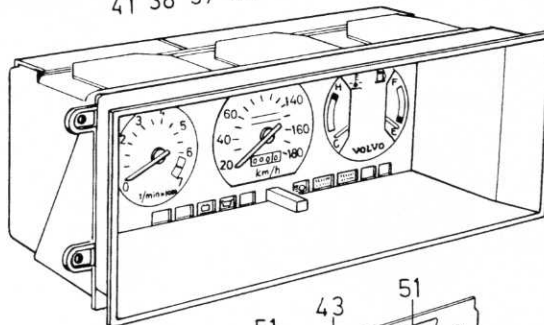
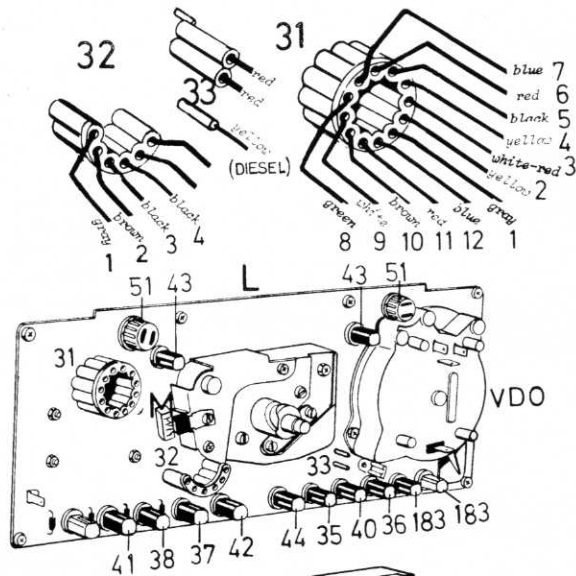
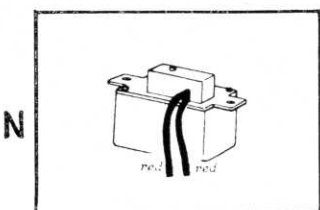
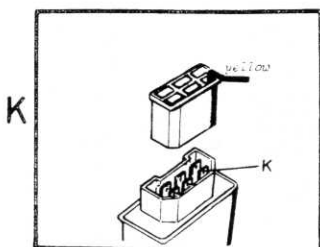
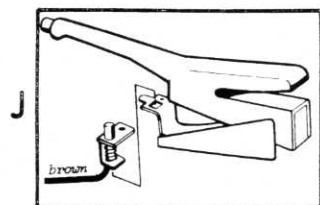
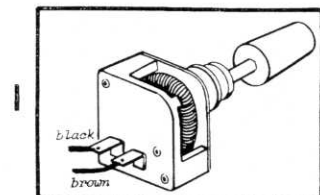
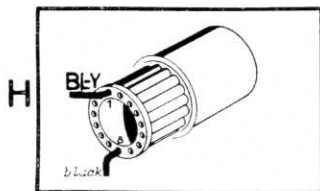
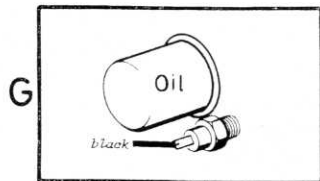
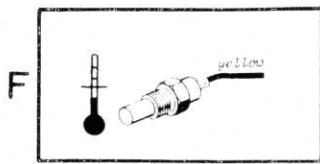
Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)
CIS system

Instrument cluster

Legend:

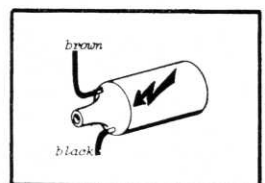
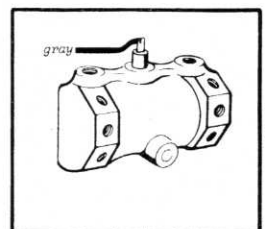
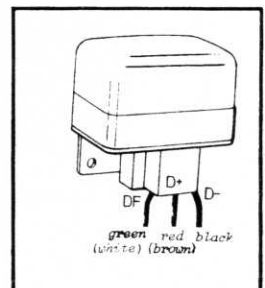
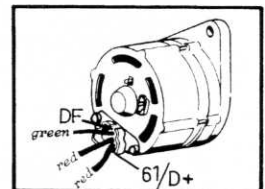
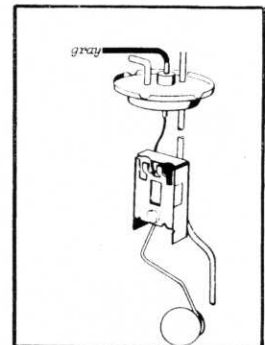
- A Fuel tank level sender
- B Alternator
- C Voltage regulator
- D Switch, brake failure warning
- E Ignition coil
- F Temperature sender
- G Switch, oil pressure sender
- H Bulb failure
- I Rheostat
- J Switch, parking brake reminder
- K Control unit (Diesel)
- L Instrument cluster assembly
- M Instrument voltage stabilizer
- N Switch, Lambda-sond service reminder



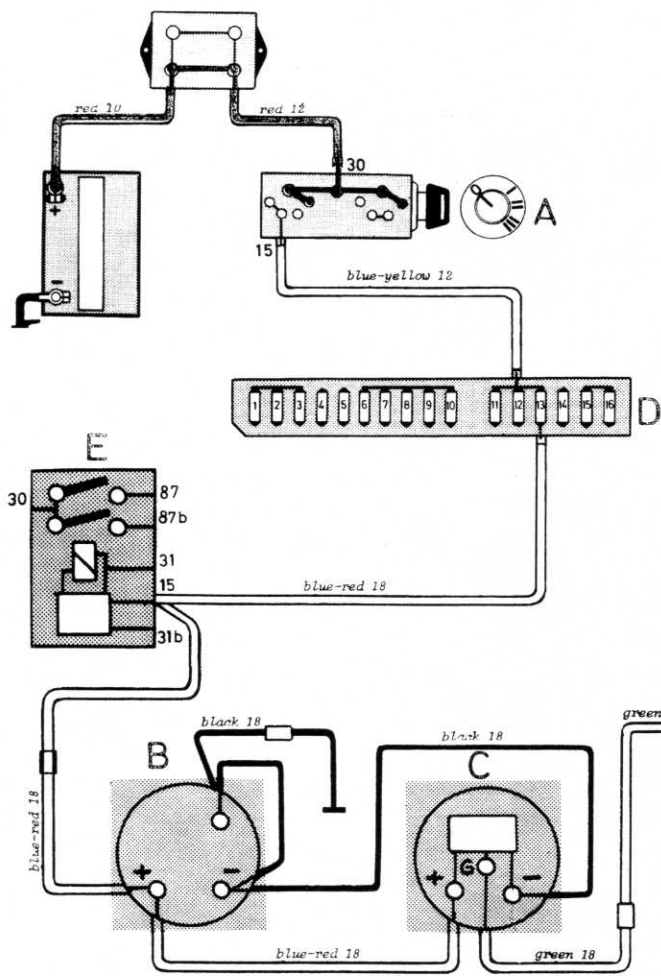


**Legend,
instrument assembly:**

- 31, 32, 33 Instrument connectors
- 35 Oil pressure indicator light
- 36 Choke reminder light
- 37 Parking brake reminder light
- 40 Charging control light
- 41 Bulb failure warning light
- 42 Upper beam indicator light
- 43 Turn signal indicator light
- 44 Overdrive indicator light
- 51 Instrument light
- 183 Lambda-sond service reminder light. Alt. Diesel glow plug indicator light.



Oil pressure gauge

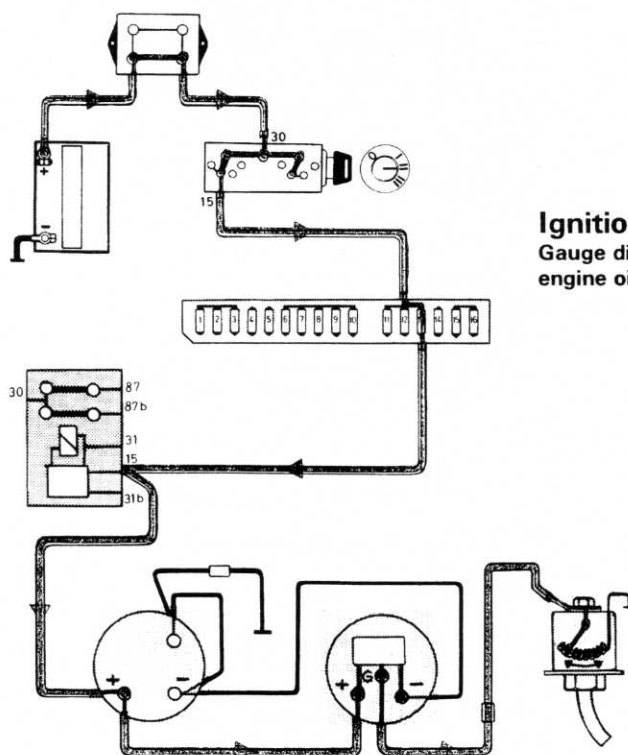


Fuse No. 13:

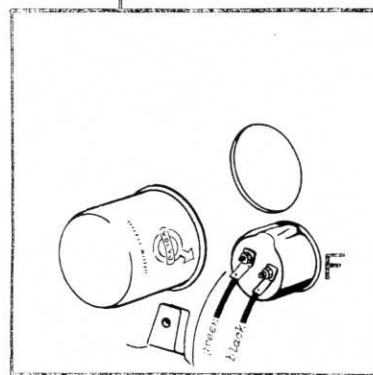
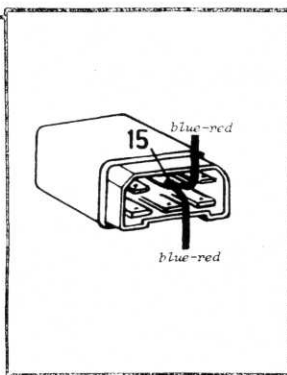
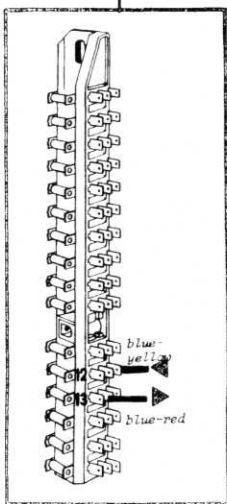
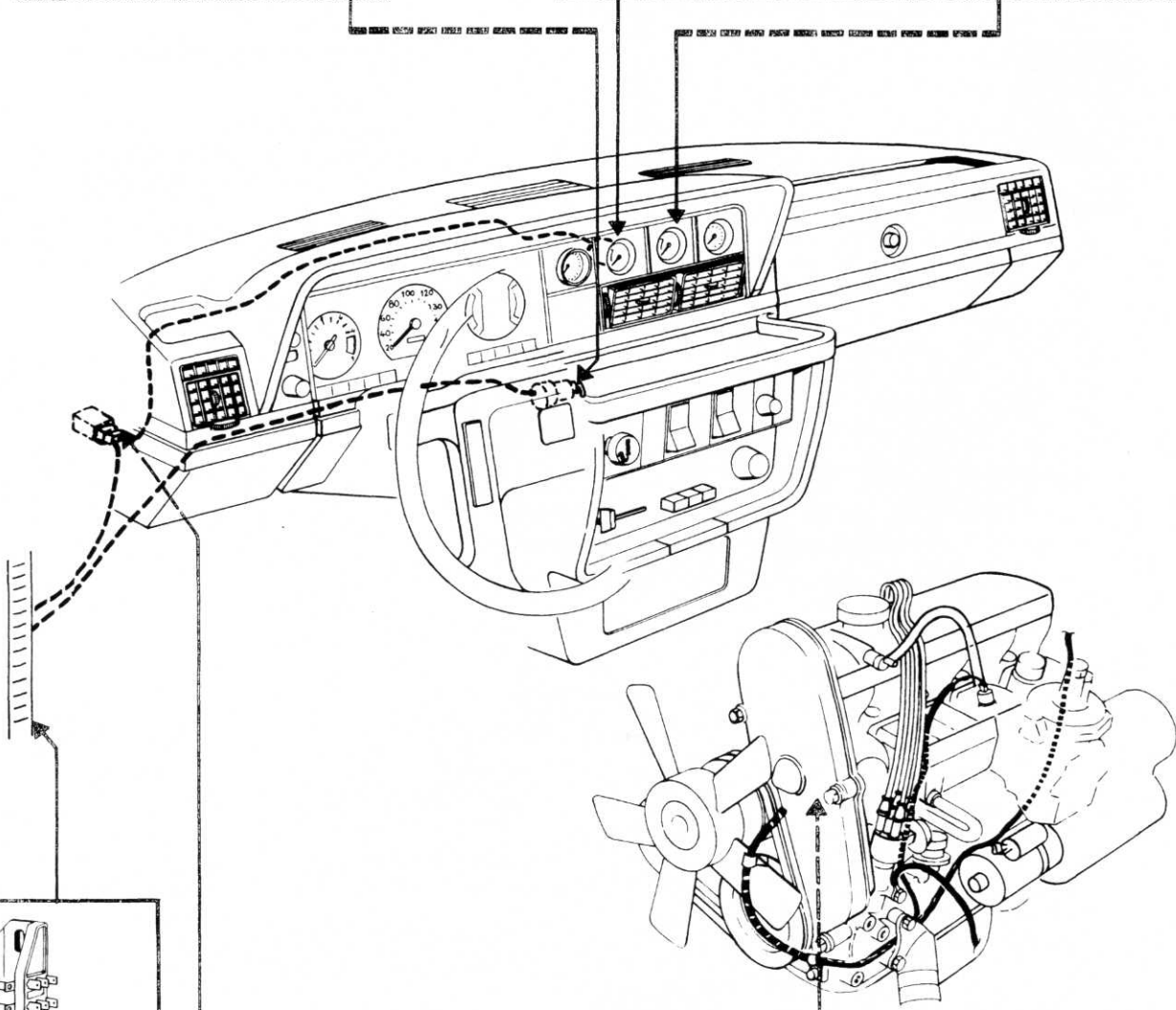
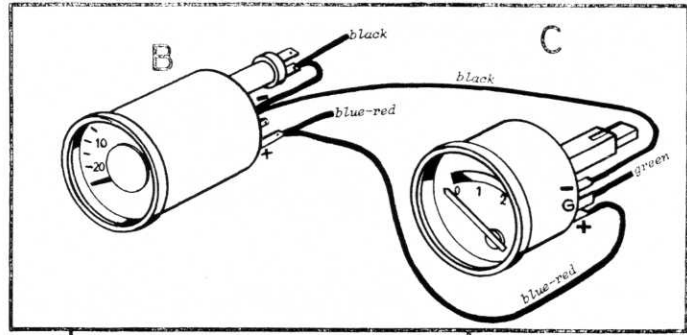
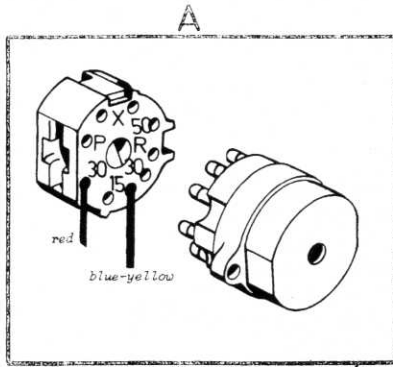
Instrument cluster
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)
CIS system
Oil pressure gauge
Voltmeter
Ambient temperature gauge

Legend:

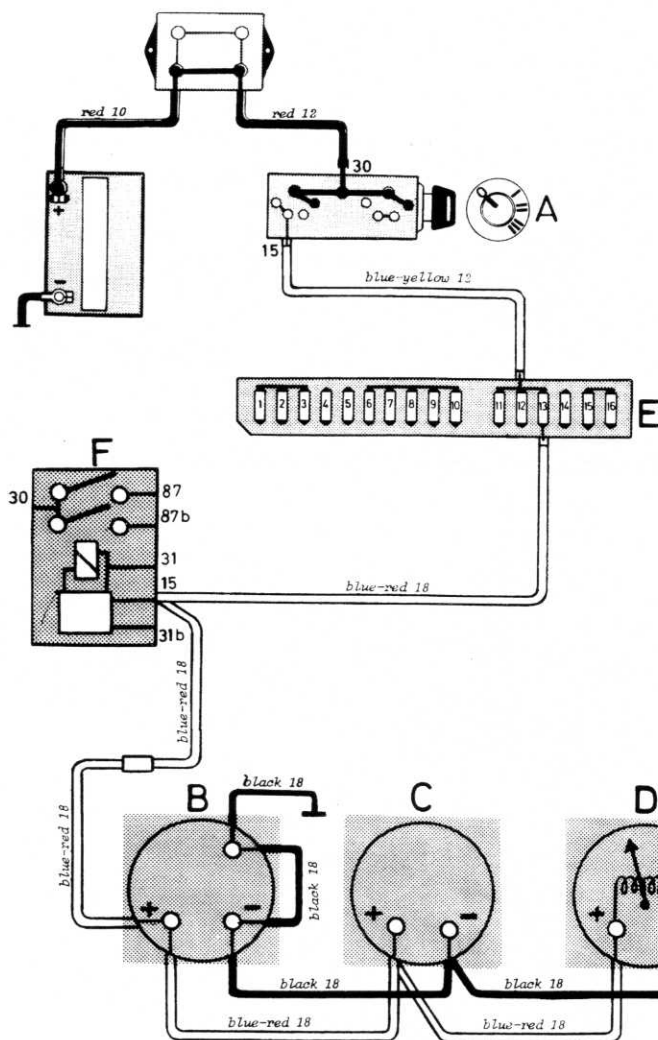
A Ignition switch
B Ambient temperature gauge,
alt. Turbo discharge pressure
gauge
C Oil pressure gauge
D Fuse box
E Fuel pump relay
F Oil pressure gauge



Ignition ON:
Gauge displays
engine oil pressure.

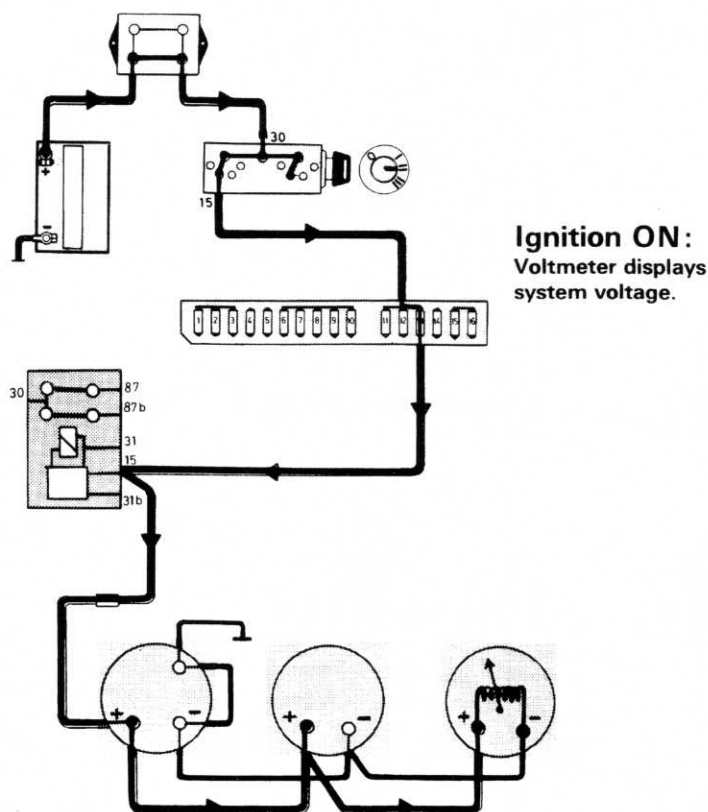


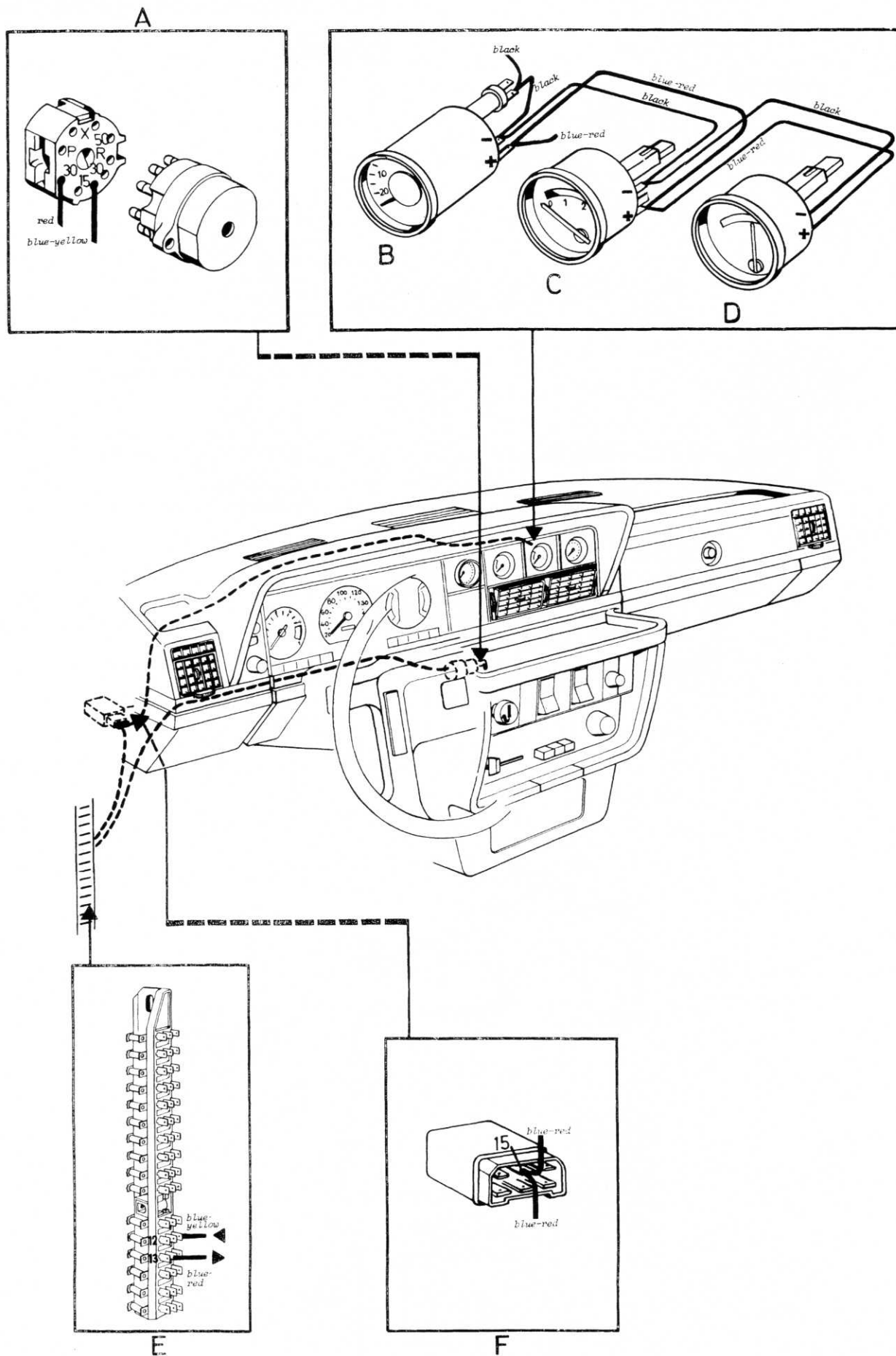
Voltmeter



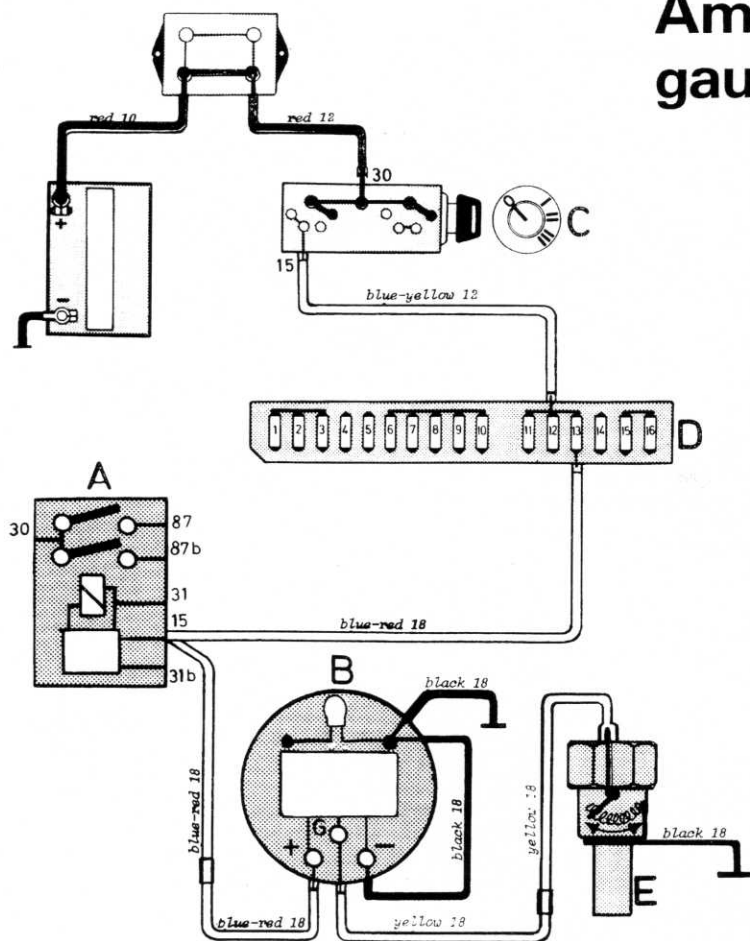
Fuse No. 13:
 Instrument cluster
 Turn signals
 Seat belt warning
 Relay, fuel injection
 Solenoid valve (carburetor)
 CIS system
 Oil pressure gauge
 Voltmeter
 Ambient temperature gauge

Legend:
 A Ignition switch
 B Ambient temperature gauge,
 alt. Turbo discharge pressure
 gauge
 C Oil pressure gauge
 D Voltmeter
 E Fuse box
 F Fuel pump relay



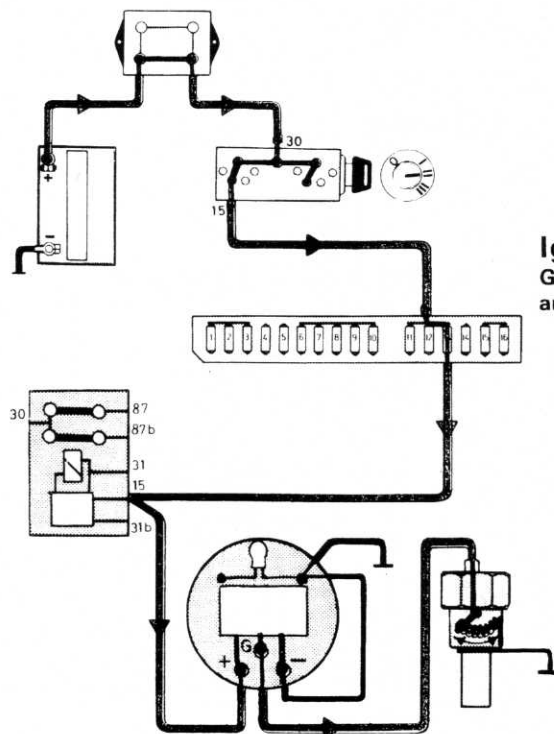


Ambient temperature gauge

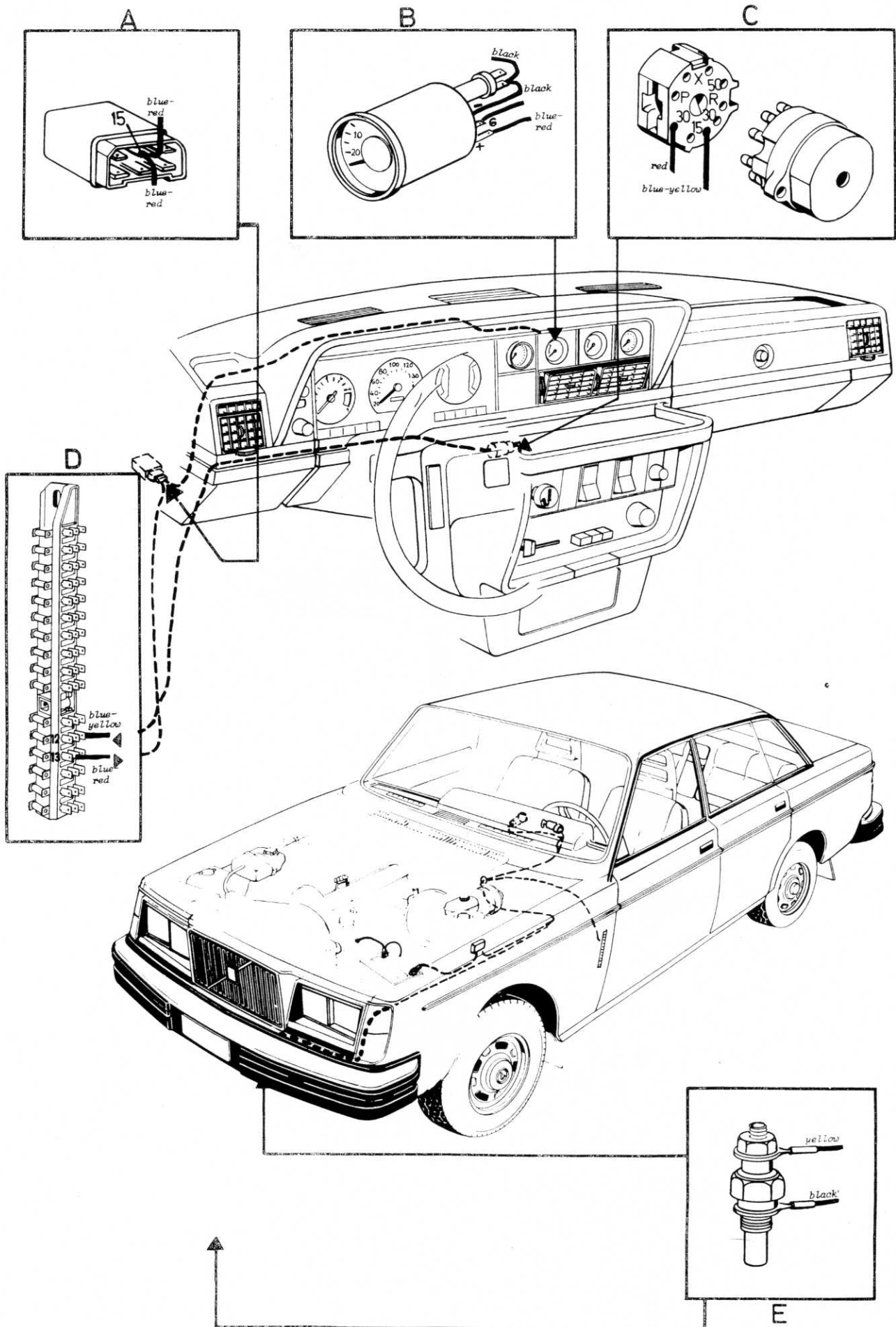


Fuse No. 13:
 Instrument cluster
 Turn signals
 Seat belt warning
 Relay, fuel injection
 Solenoid valve (carburetor)
 CIS system
 Oil pressure gauge
 Voltmeter
 Ambient temperature gauge

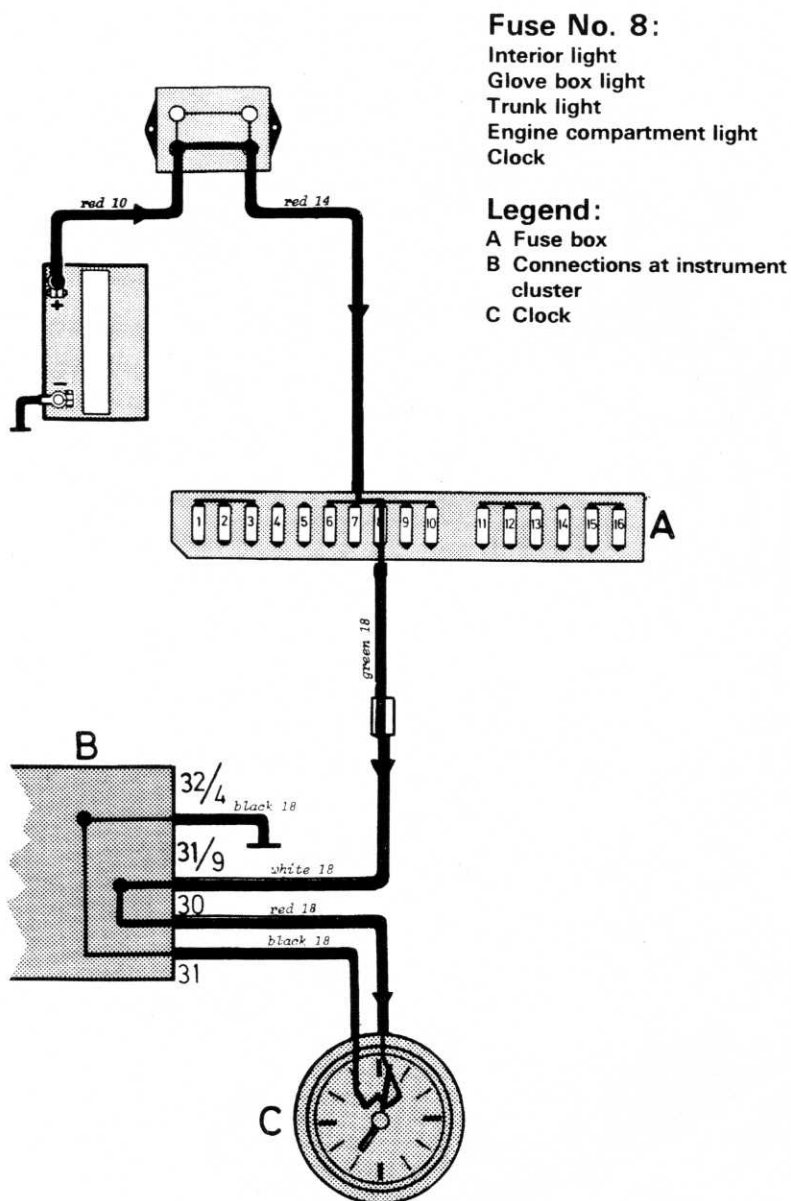
Legend:
 A Fuel pump relay
 B Ambient temperature gauge
 C Ignition switch
 D Fuse box
 E Sender, ambient temperature

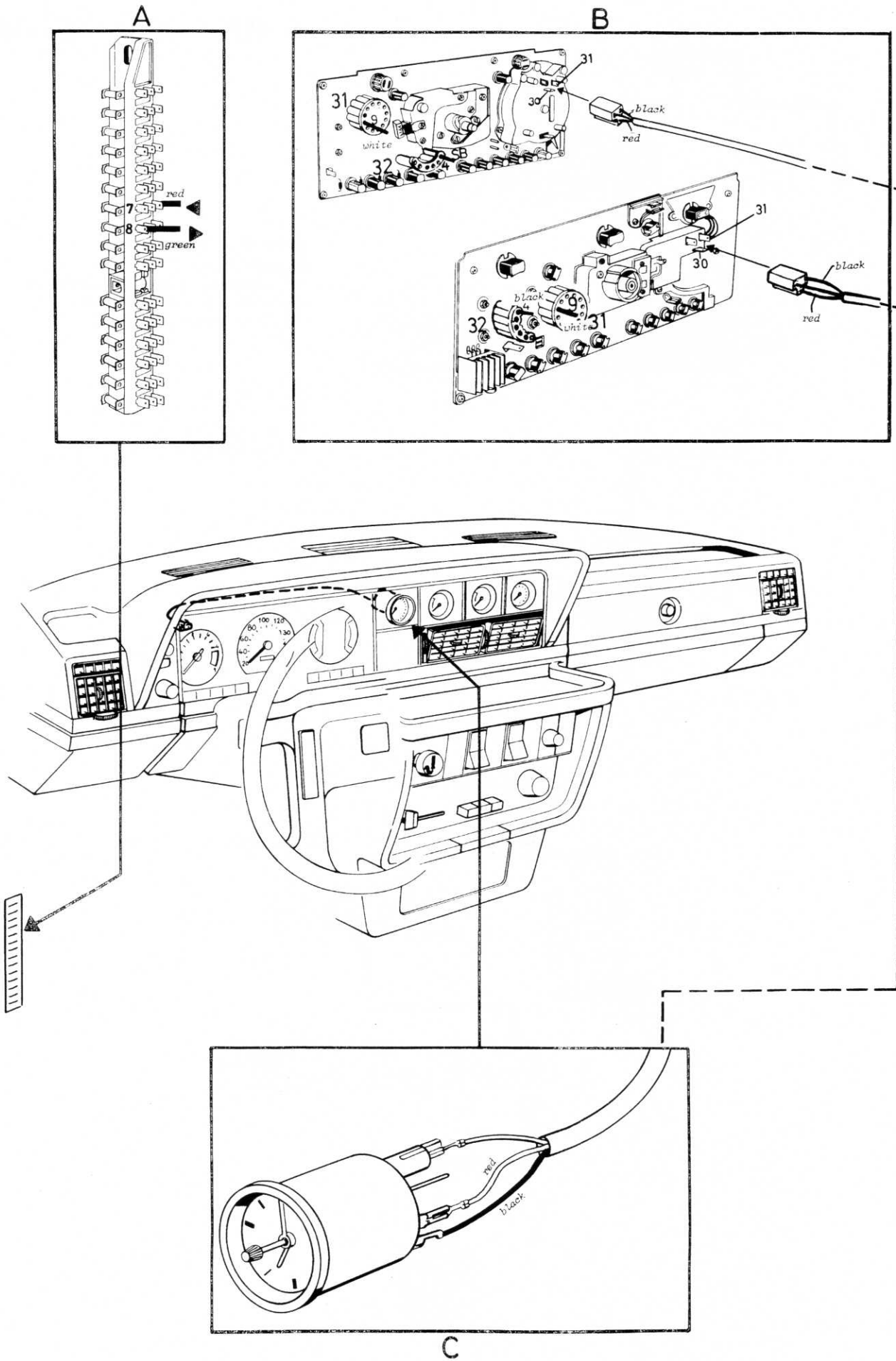


Ignition ON:
 Gauge displays
 ambient temperature.

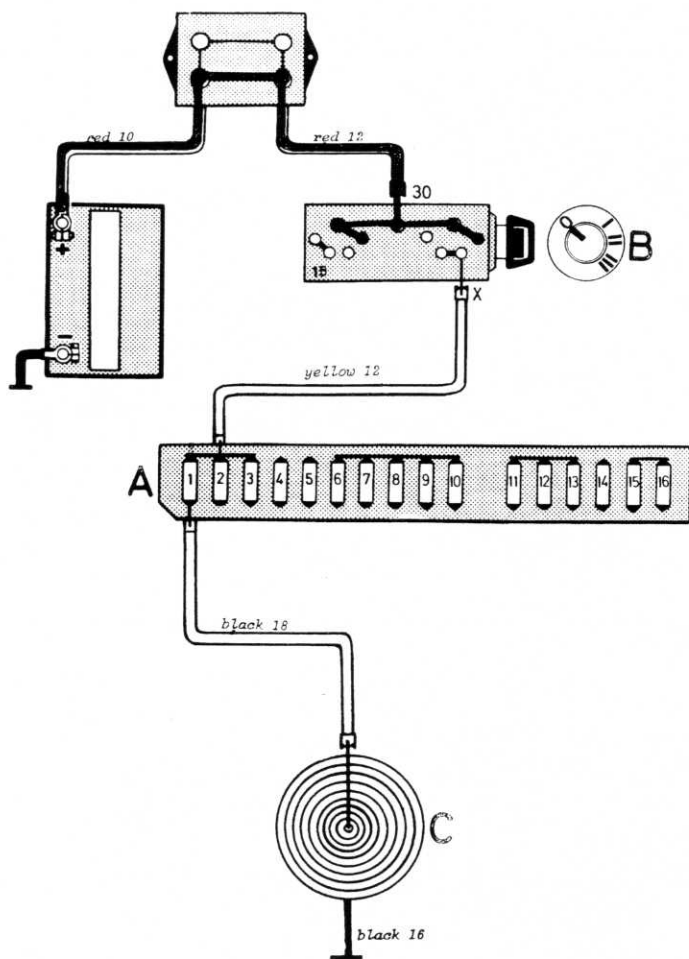


Clock





Cigarette lighter

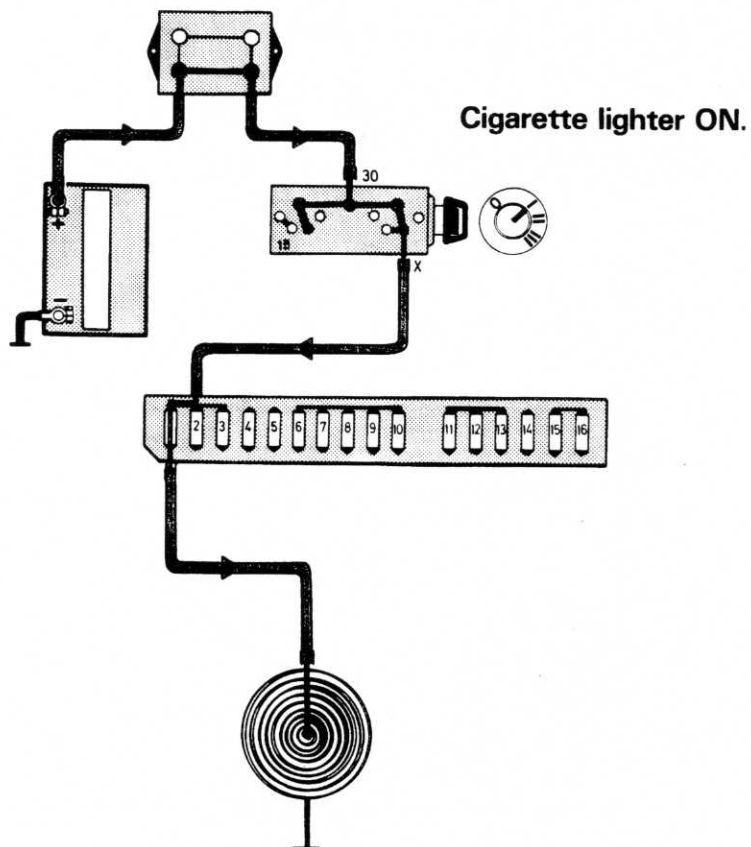


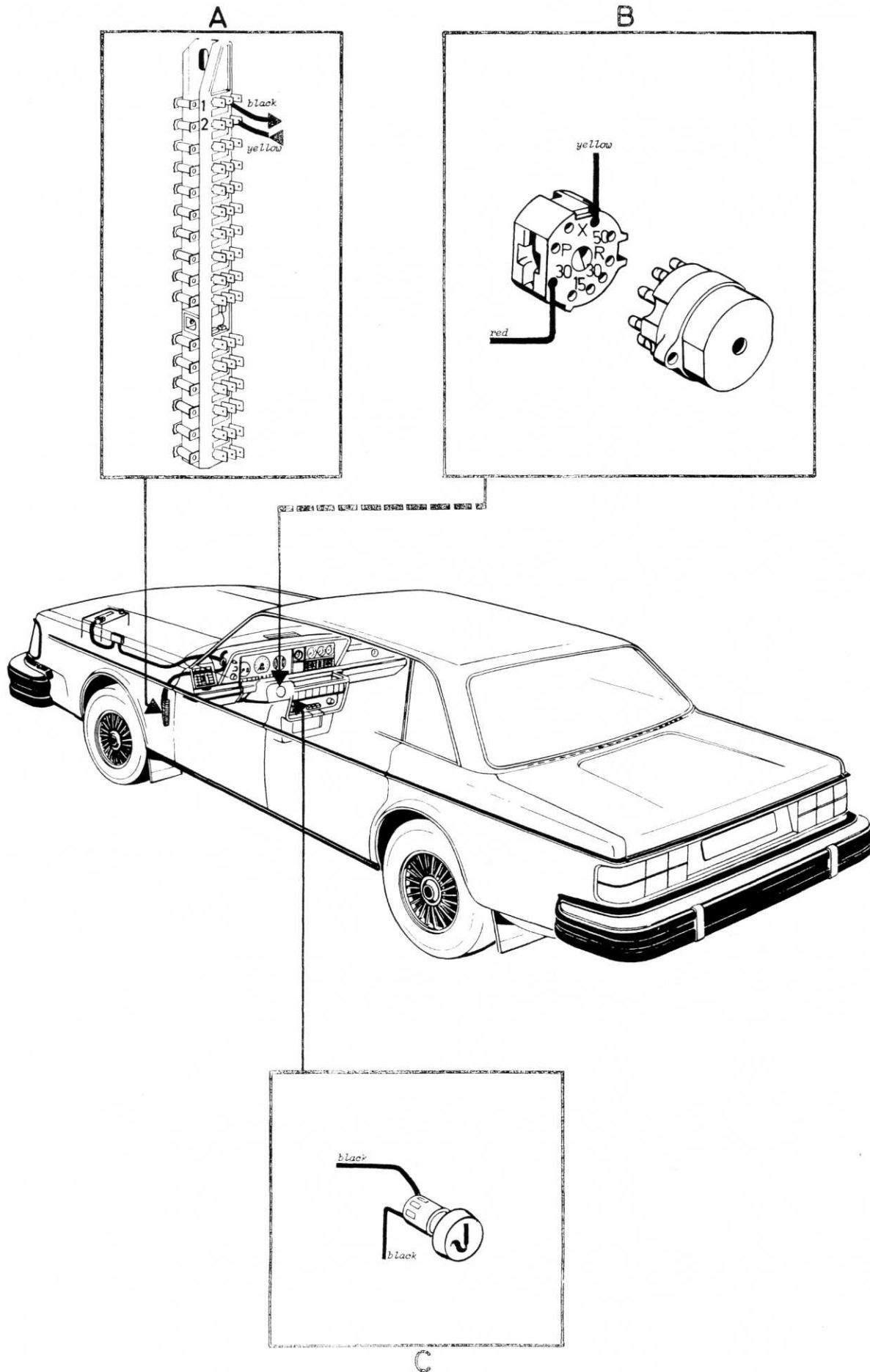
Fuse No. 1:

Cigarette lighter
Tail gate window wiper and washer
Electrically operated side mirrors
Radio (and power antenna)

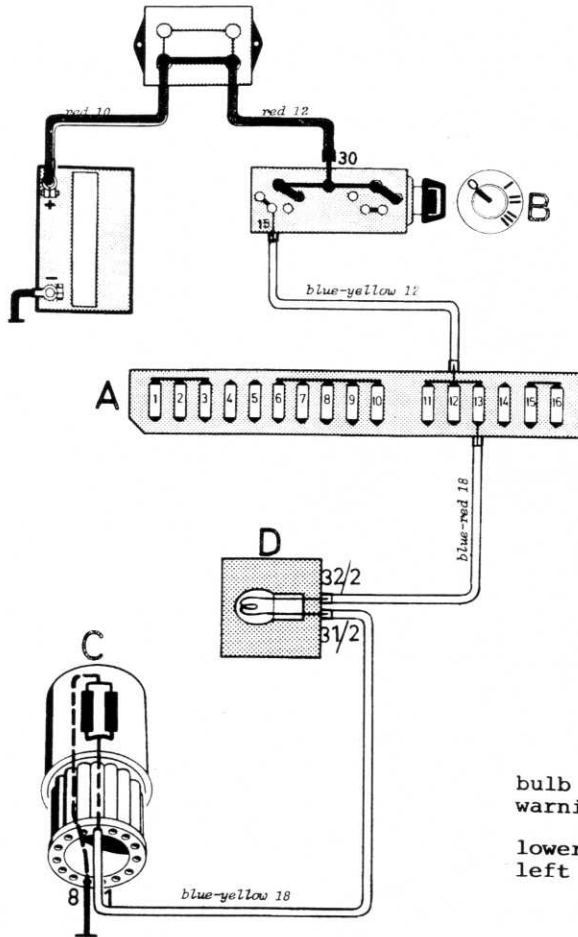
Legend:

A Fuse box
B Ignition switch
C Cigarette lighter





Bulb failure warning light system

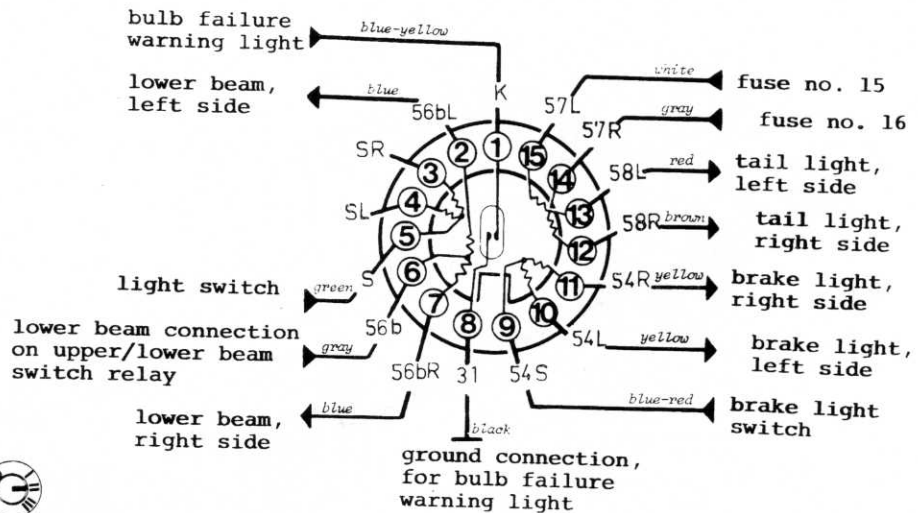


Fuse No. 13:

Instruments
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)

Legend:

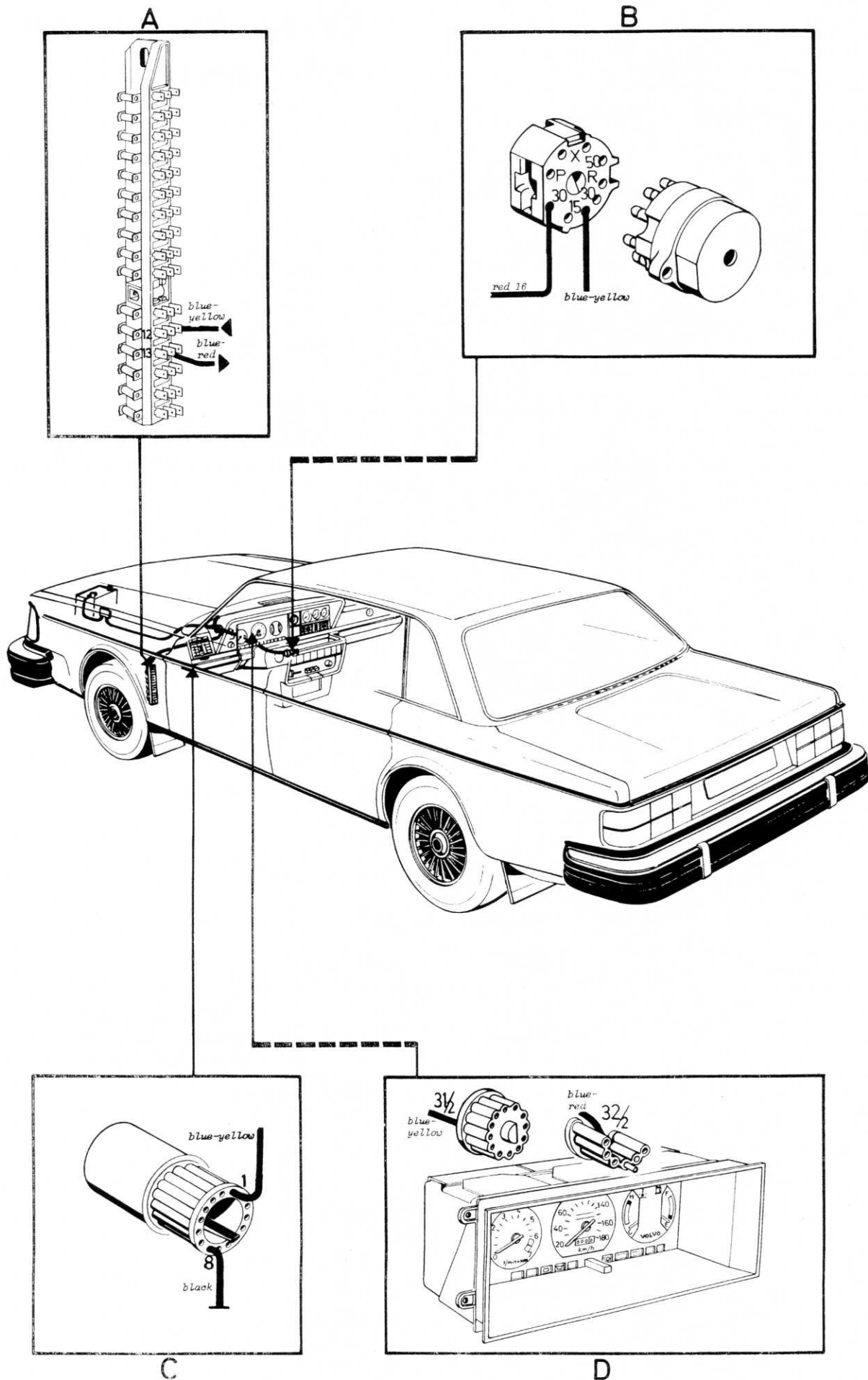
A Fuse box
B Ignition switch
C Bulb failure sensor
D Bulb failure warning light



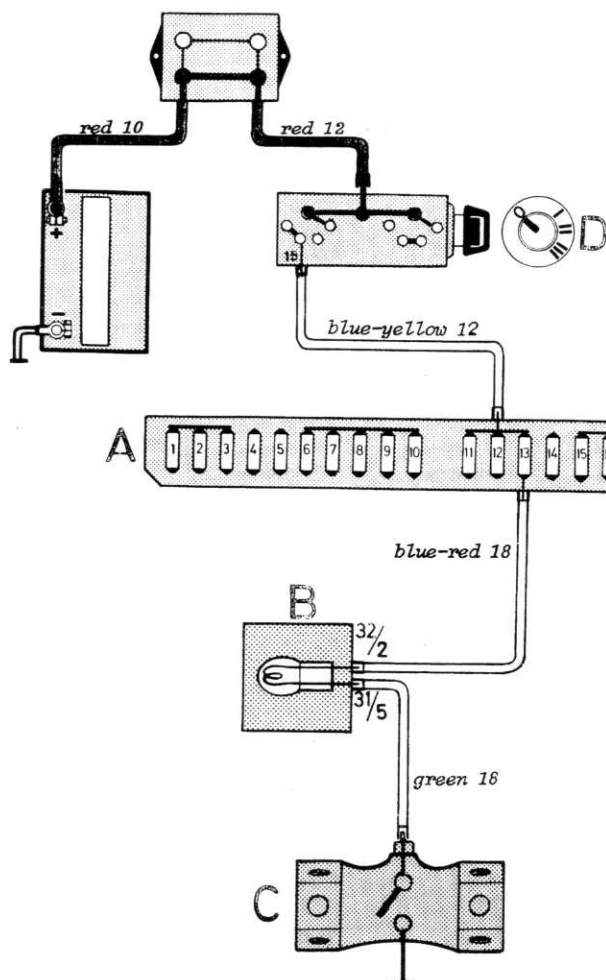
Bulb failure sensor activated
(bulb out of order)

Warning light illuminates when any one bulb in following light system is inoperative:

- Tail lights
- Brake lights
- Headlights, lower beams



Brake failure warning light system

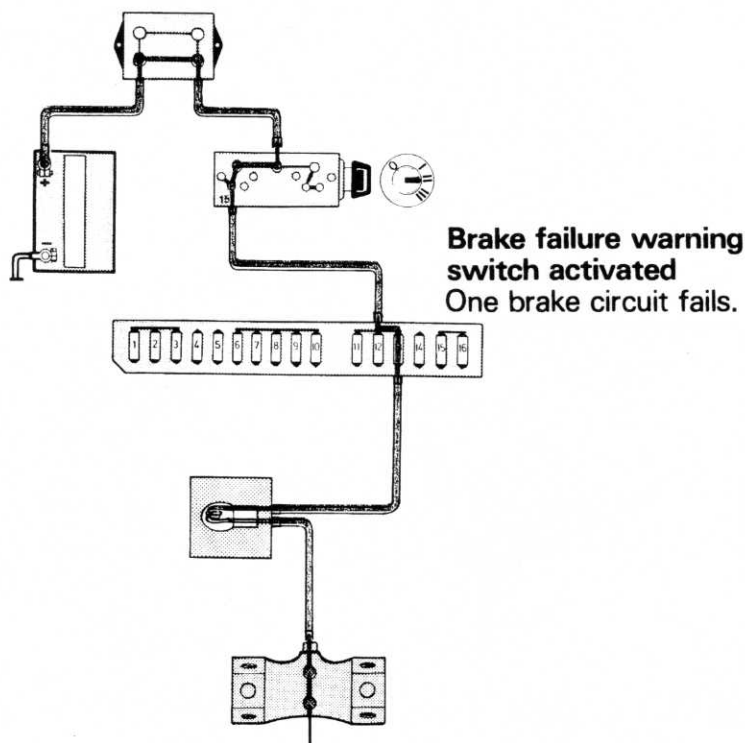


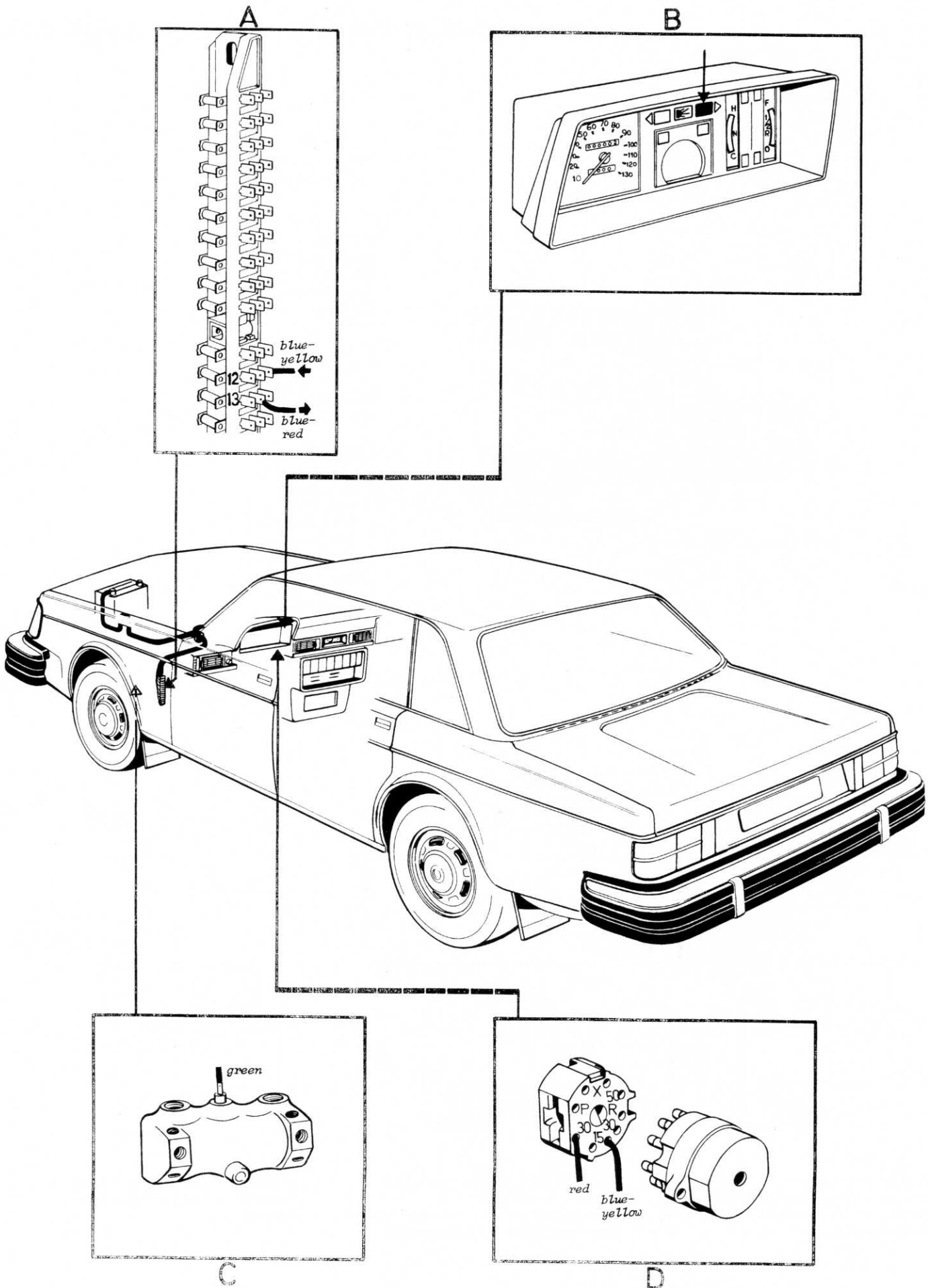
Fuse No. 13:

Instruments
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)

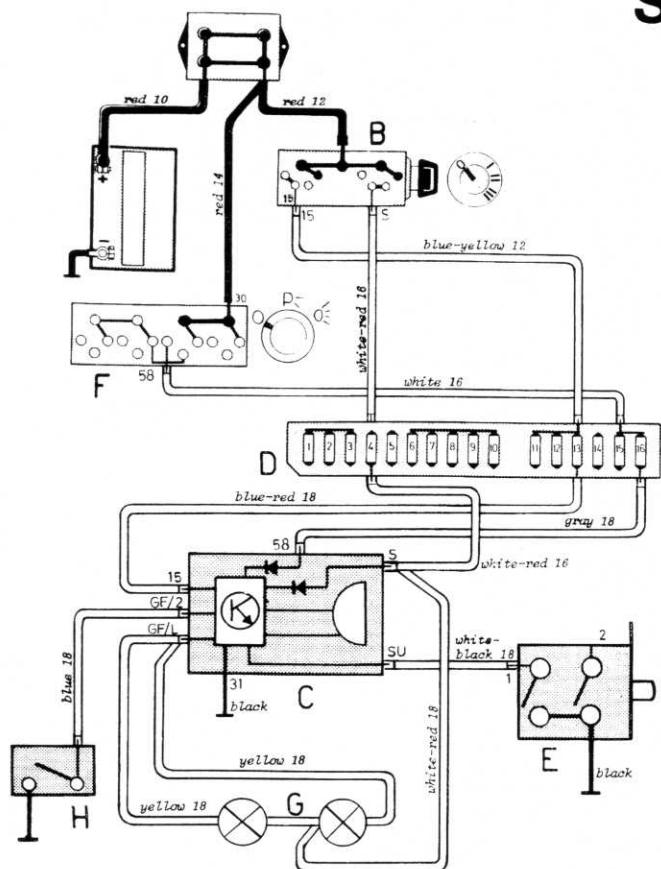
Legend:

A Fuse box
B Brake failure warning light
C Brake failure warning switch





Seat belt warning system



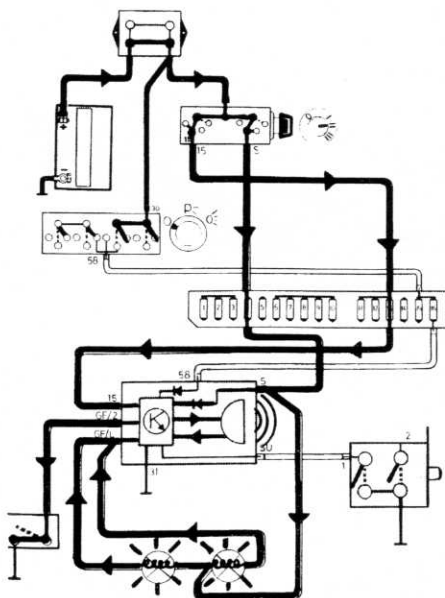
Fuse No. 4:
Seat belt warning
Ignition key buzzer

Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)

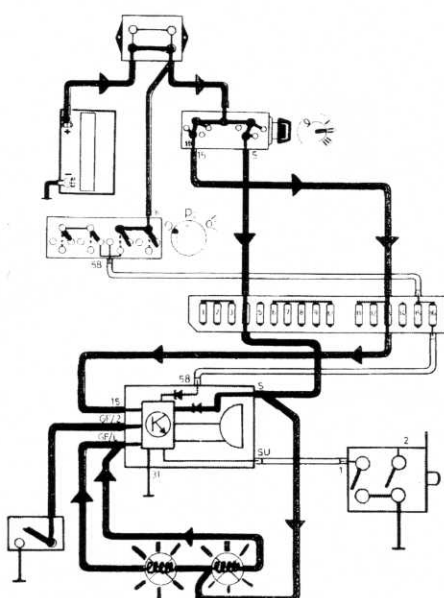
Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

Legend:

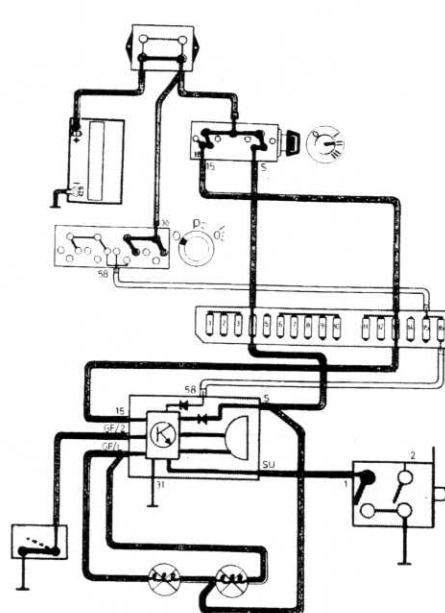
- B Ignition switch
- C Buzzer relay
- D Fuse box
- E Door switch, left side front door
- F Light switch
- G Reminder lights
- H Switch for seat belt, driver's seat



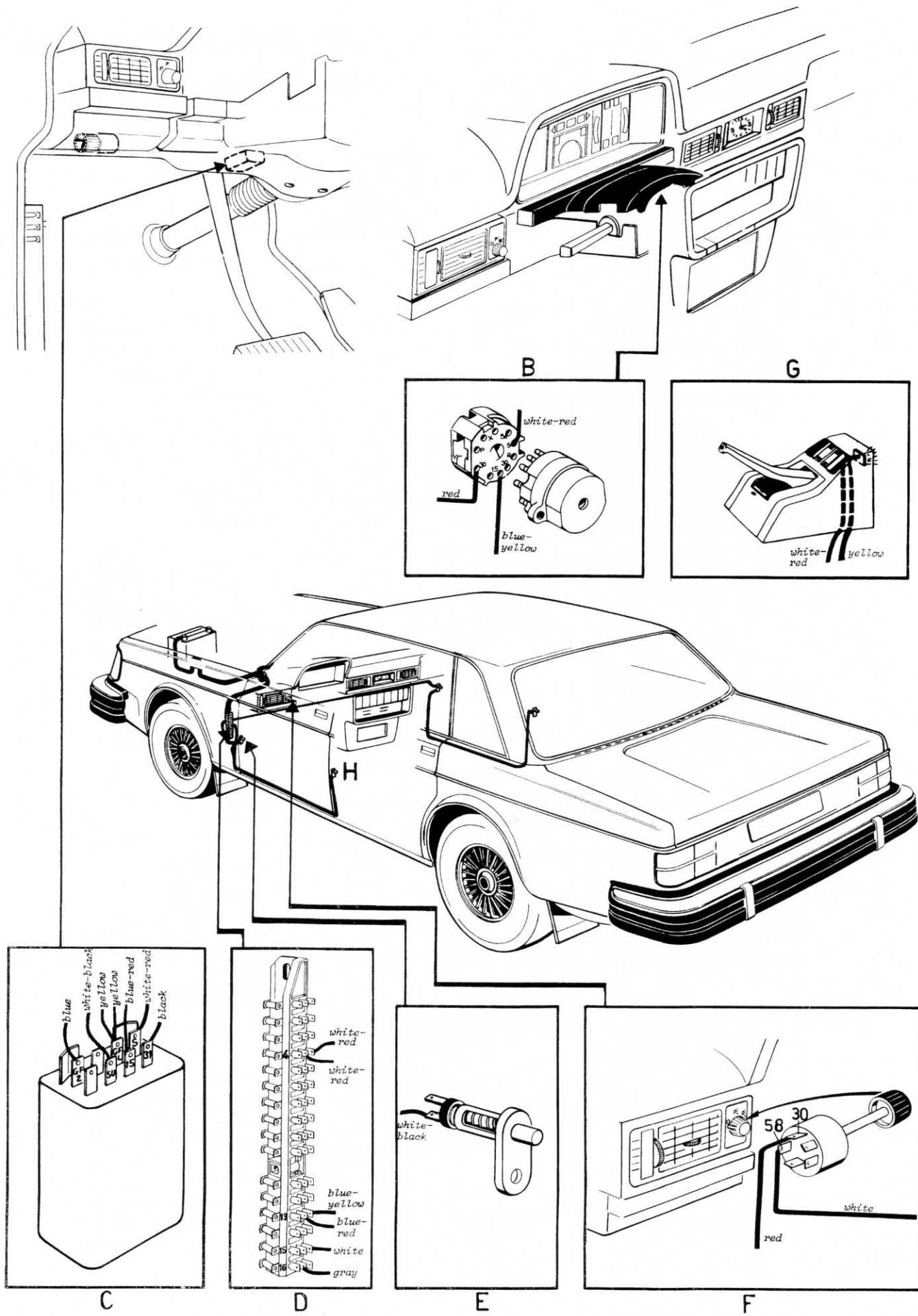
Ignition ON
Seat belt not buckled.
Reminder lights illuminate and buzzer sounds for 4-8 seconds after switching ignition switch ON.



Ignition ON
Seat belt being buckled within 4-8 seconds: buzzer goes OUT.
With ignition ON, reminder lights remain illuminated full time (4-8 seconds).



Ignition ON for more than 4-8 seconds.
Buzzer OUT, reminder lights NOT illuminated.



Ignition key and light warning system

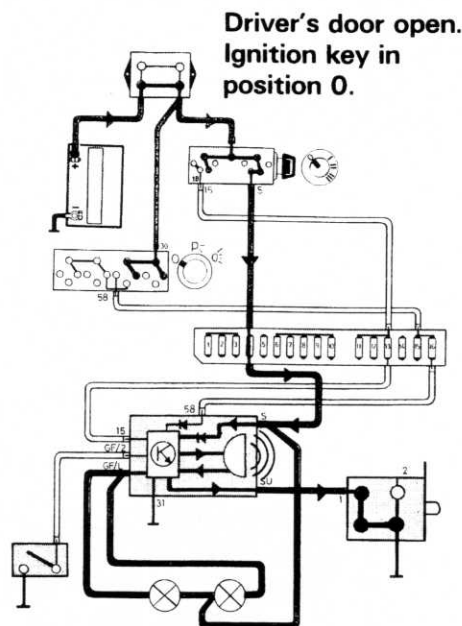
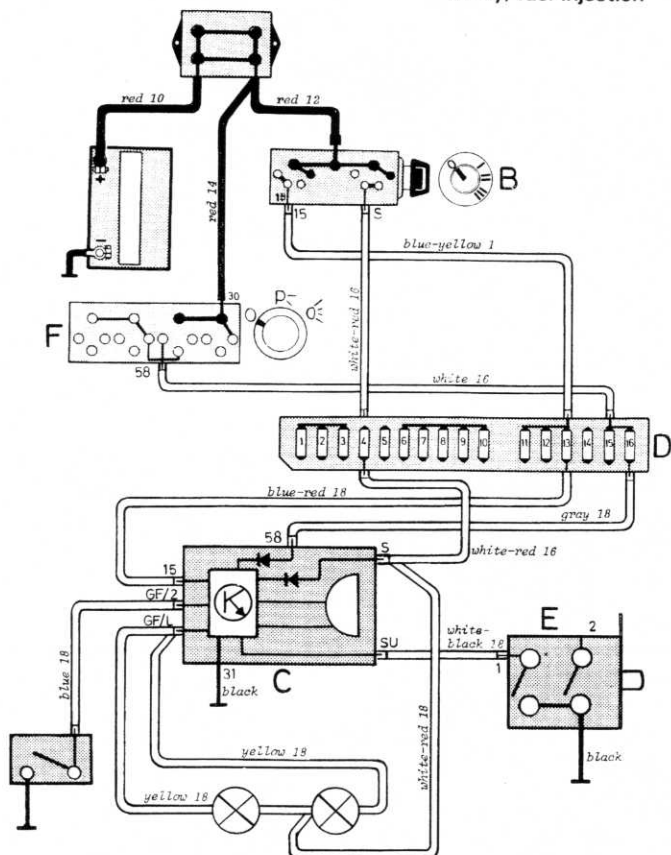
Fuse No. 4:
Seat belt warning
Ignition key buzzer

Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection

Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

Legend:

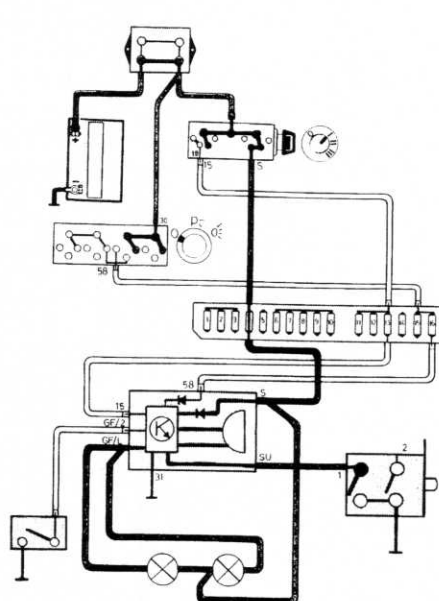
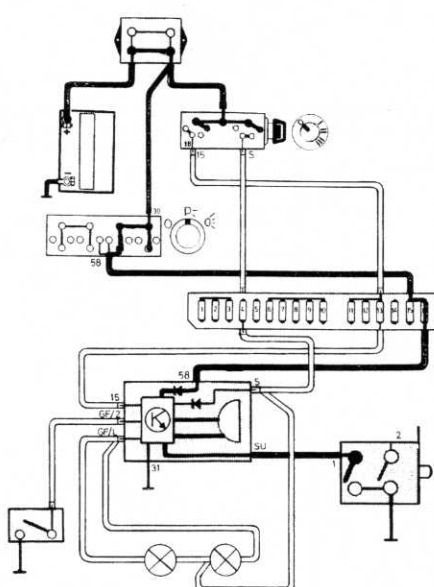
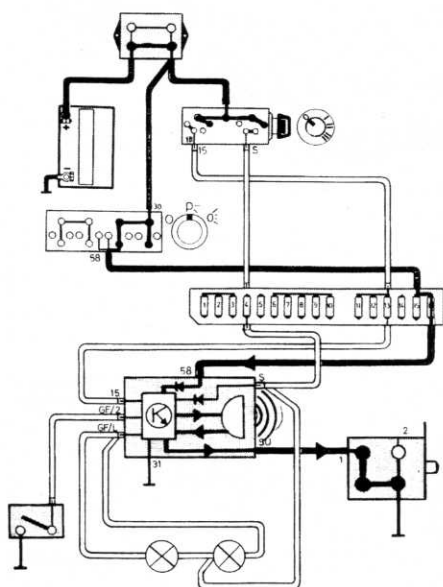
- B Ignition switch
- C Buzzer relay
- D Fuse box
- E Door switch, left side front door
- F Light switch

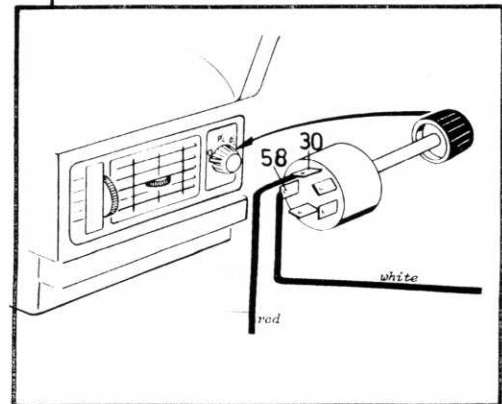
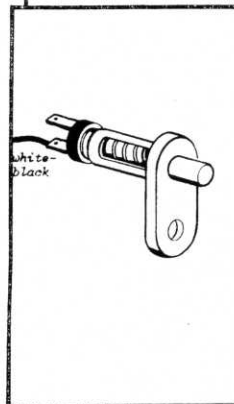
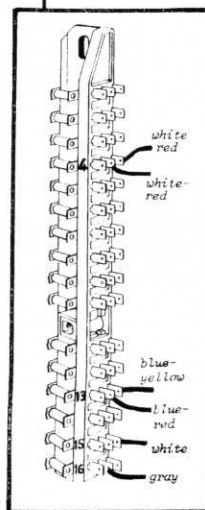
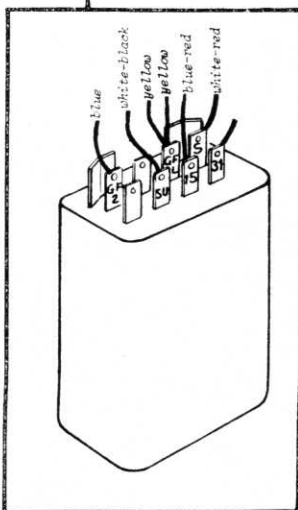
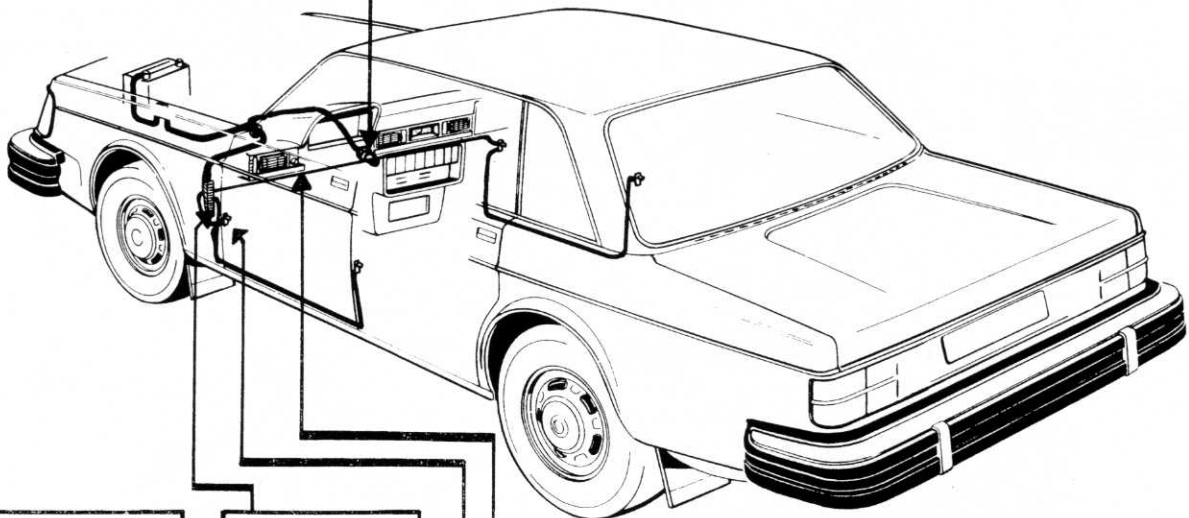
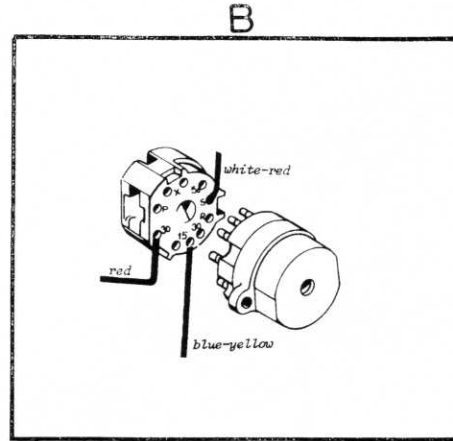
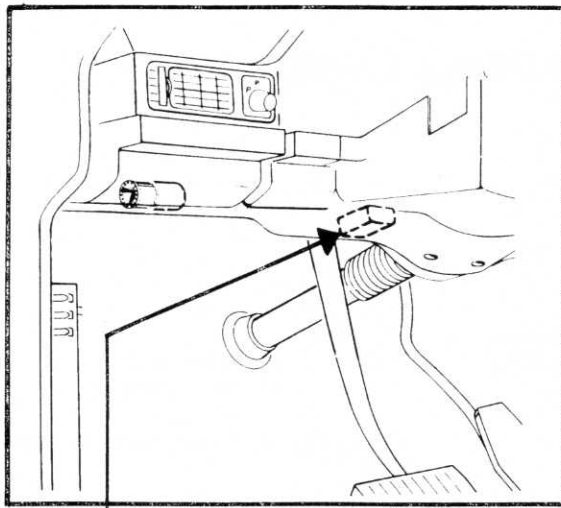


**Light switch ON.
Driver's door open.
Ignition key OUT.**

**Light switch ON.
Driver's door closed.
Ignition key OUT.**

**Driver's door closed.
Ignition switch in
position I.**





C

D

E

F

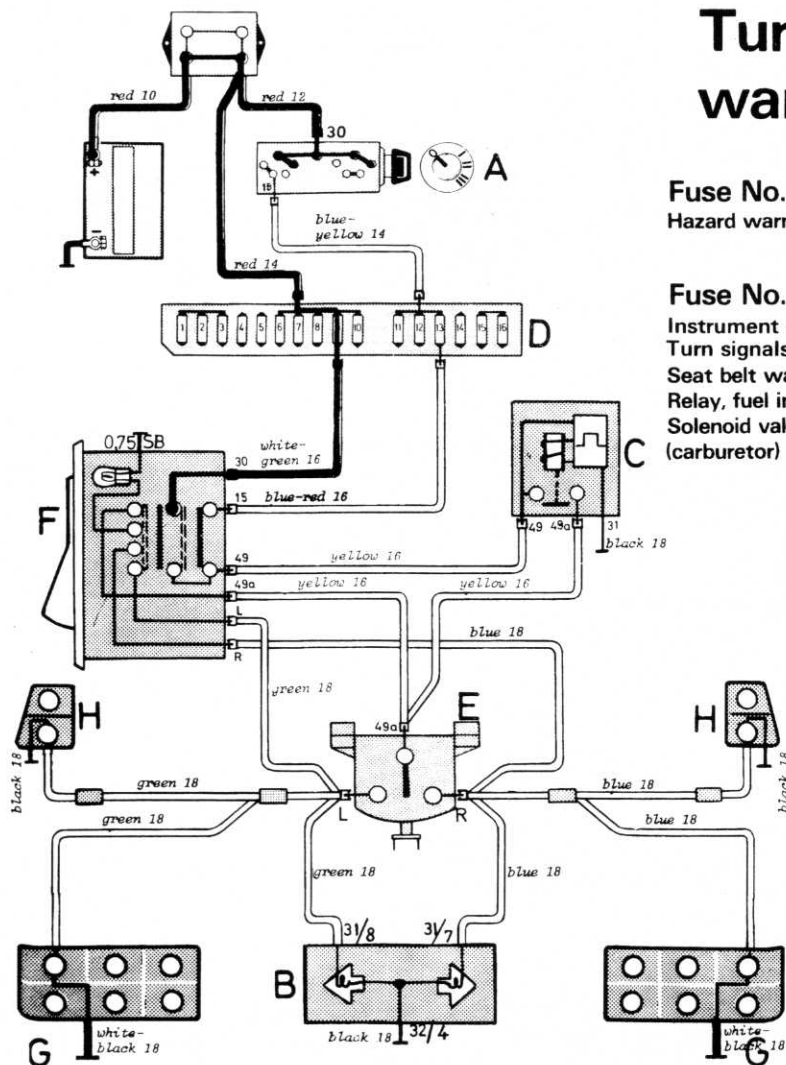
Turn signals and hazard warning flashers

Fuse No. 9:
Hazard warning flashers

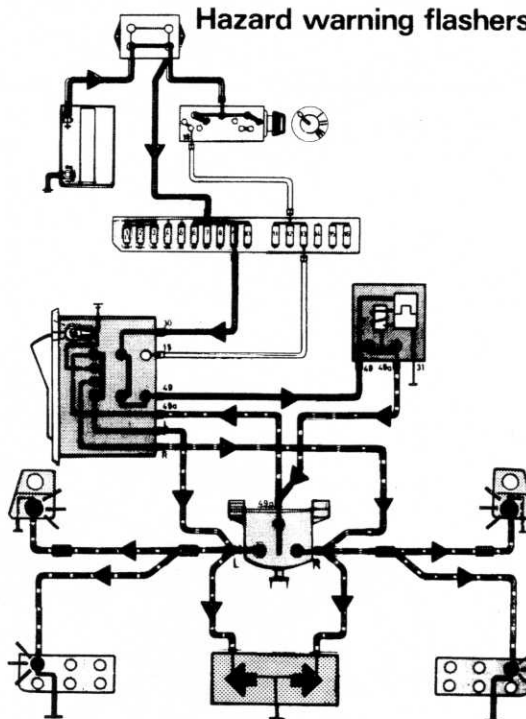
Fuse No. 13:
Instrument cluster
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve
(carburetor)

Legend:

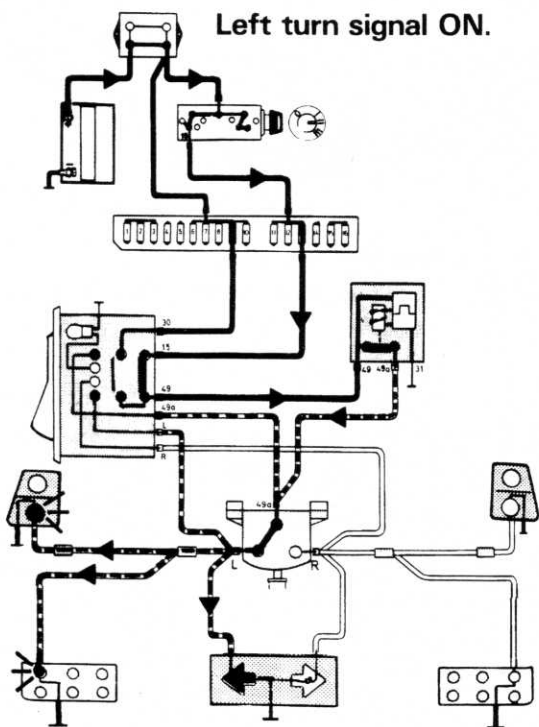
- A Ignition switch
- B Instrument connector
- C Flasher unit
- D Fuse box
- E Turn signal switch
- F Switch, hazard warning
flashers
- G Rear turn signal lights
- H Front turn signal lights



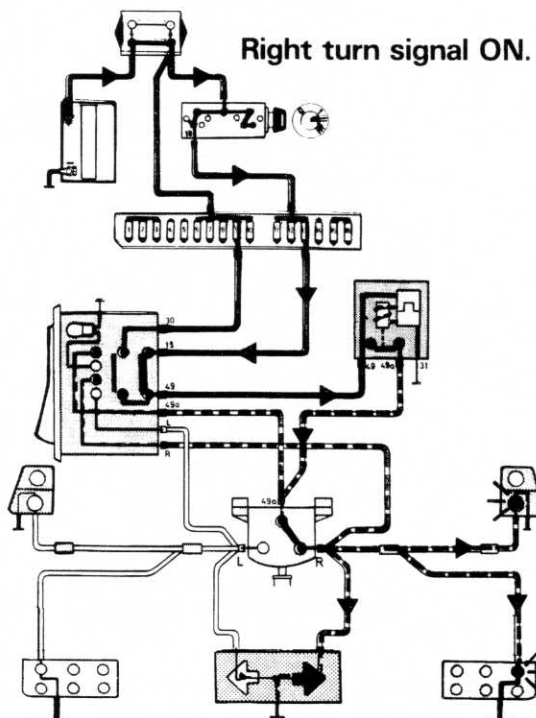
Hazard warning flashers ON.

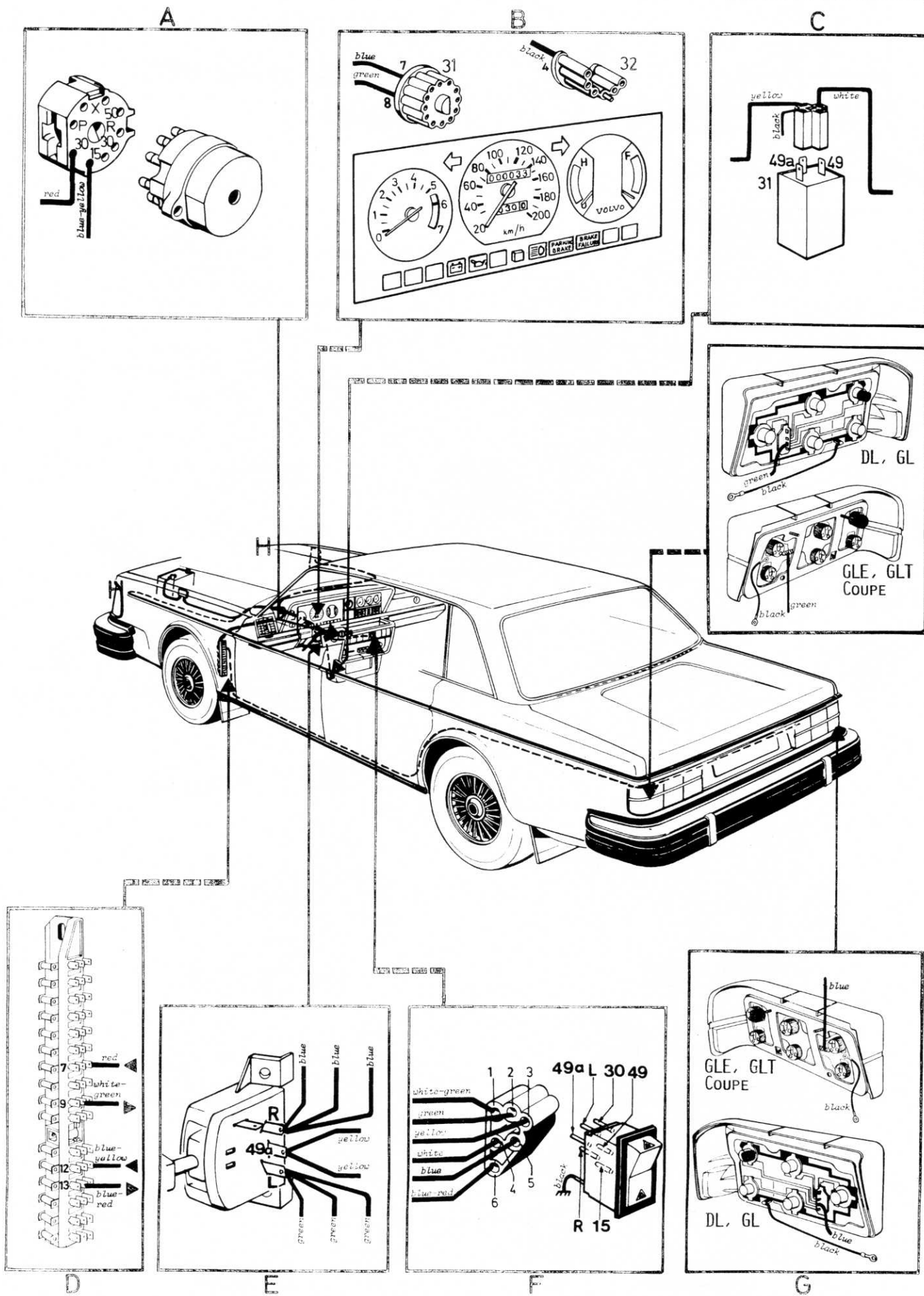


Left turn signal ON.

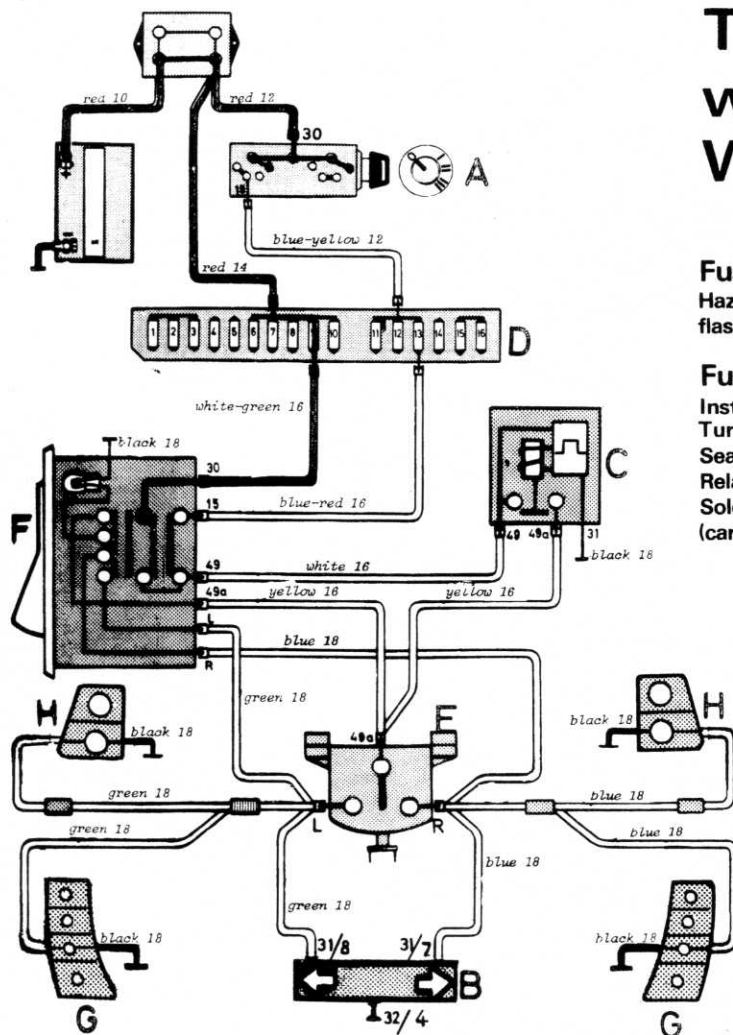


Right turn signal ON.





Turn signals and hazard warning flashers Wagon

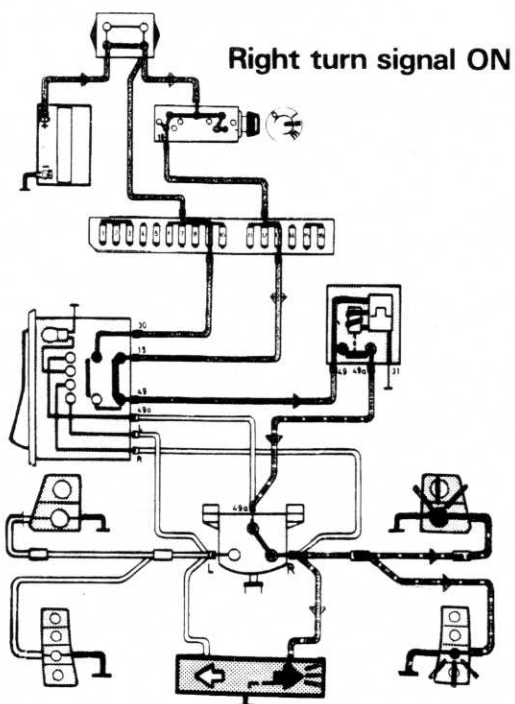
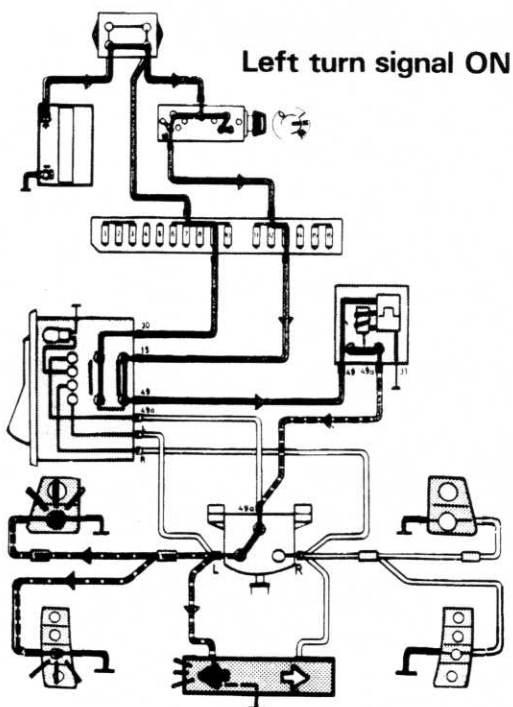
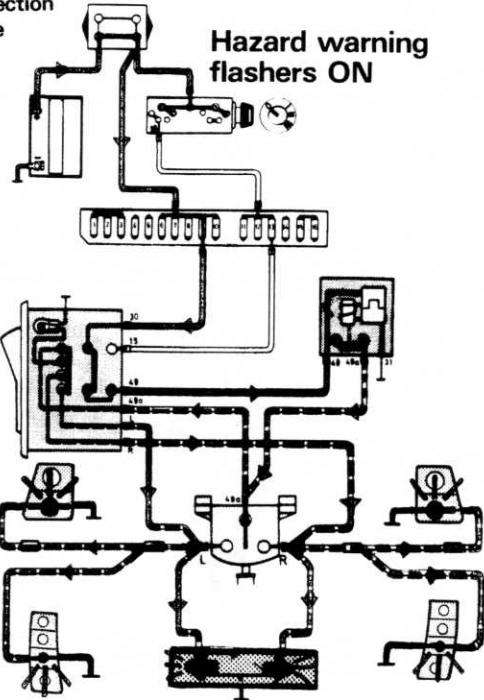


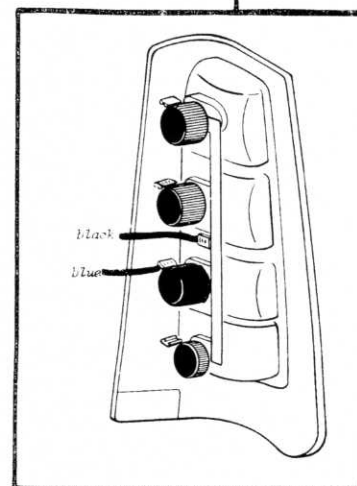
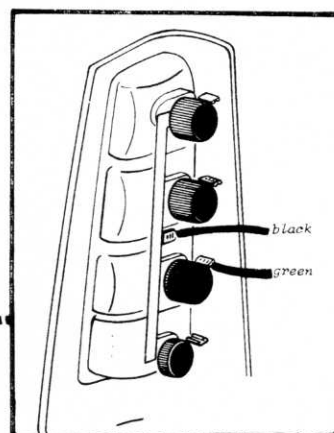
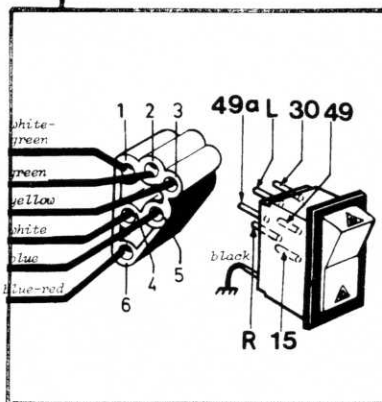
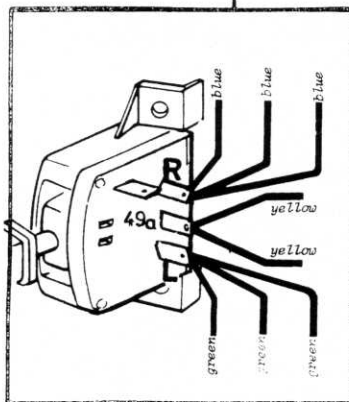
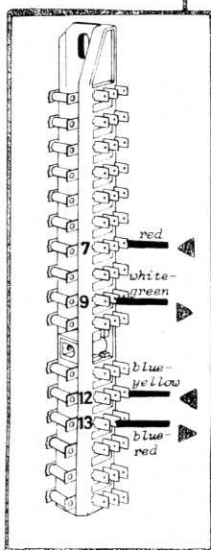
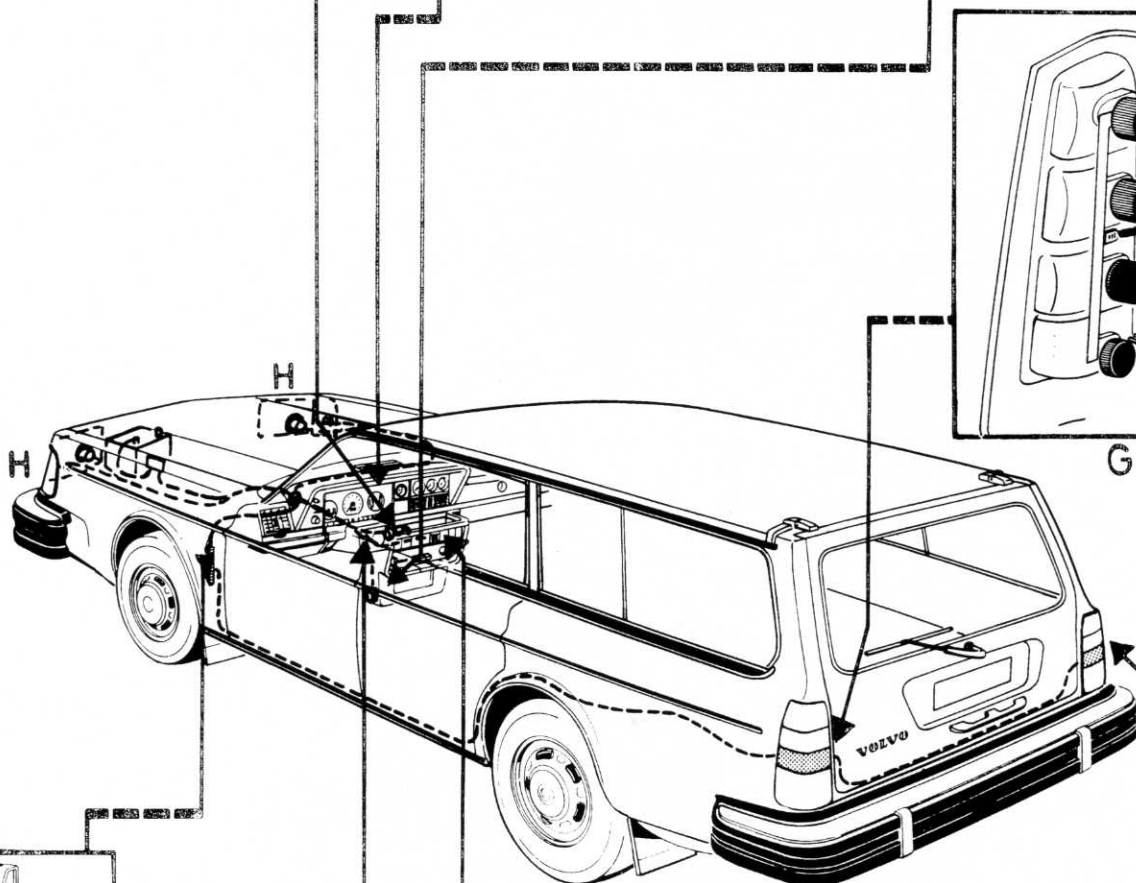
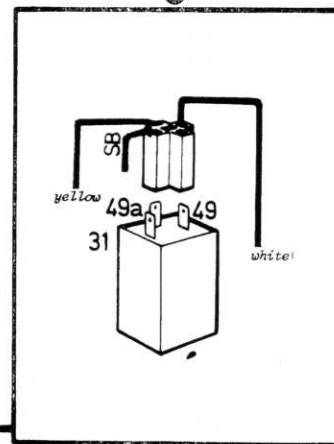
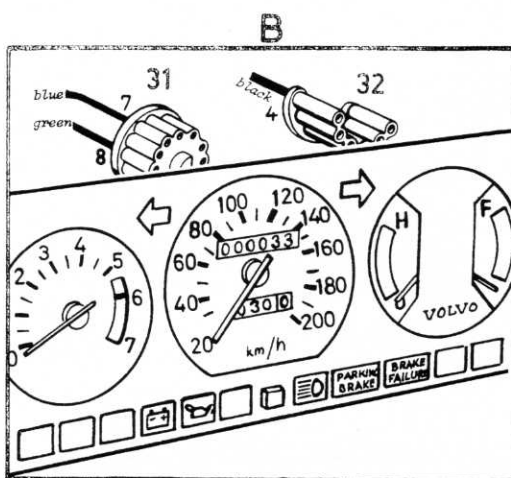
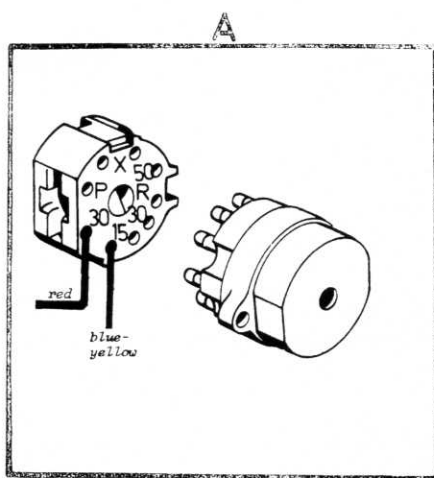
Fuse No. 9:
Hazard warning
flashers

Fuse No. 13:
Instrument cluster
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve
(carburetor)

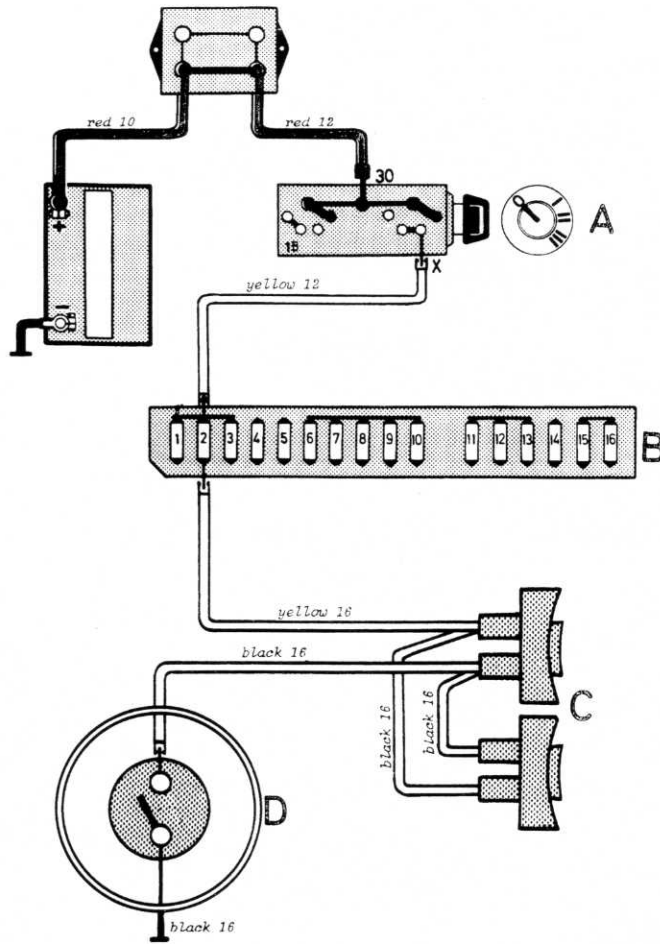
Legend:

- A Ignition switch
- B Instrument connectors
- C Flasher unit
- D Fuse box
- E Turn signal switch
- F Switch, hazard warning
flashers
- G Rear turn signal lights
- H Front turn signal lights



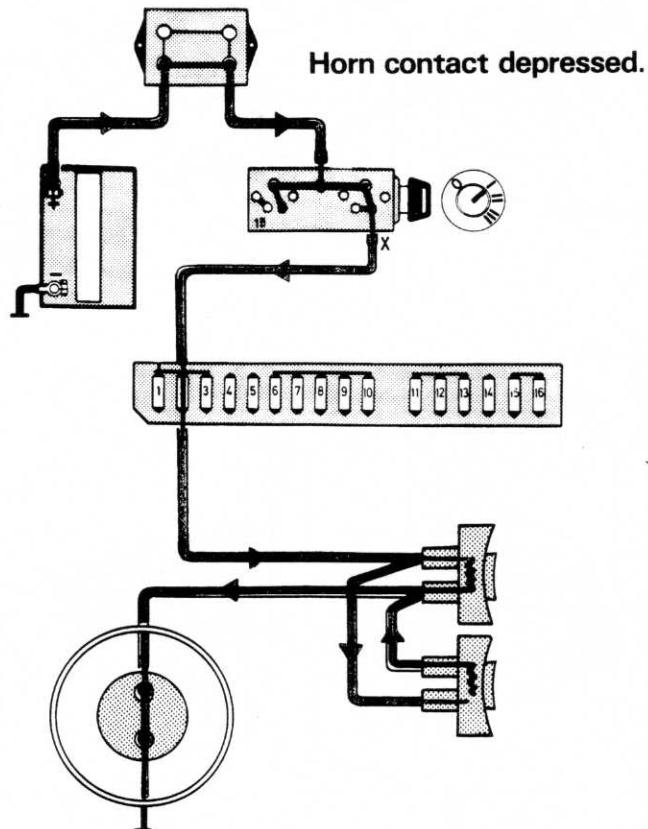


Horn

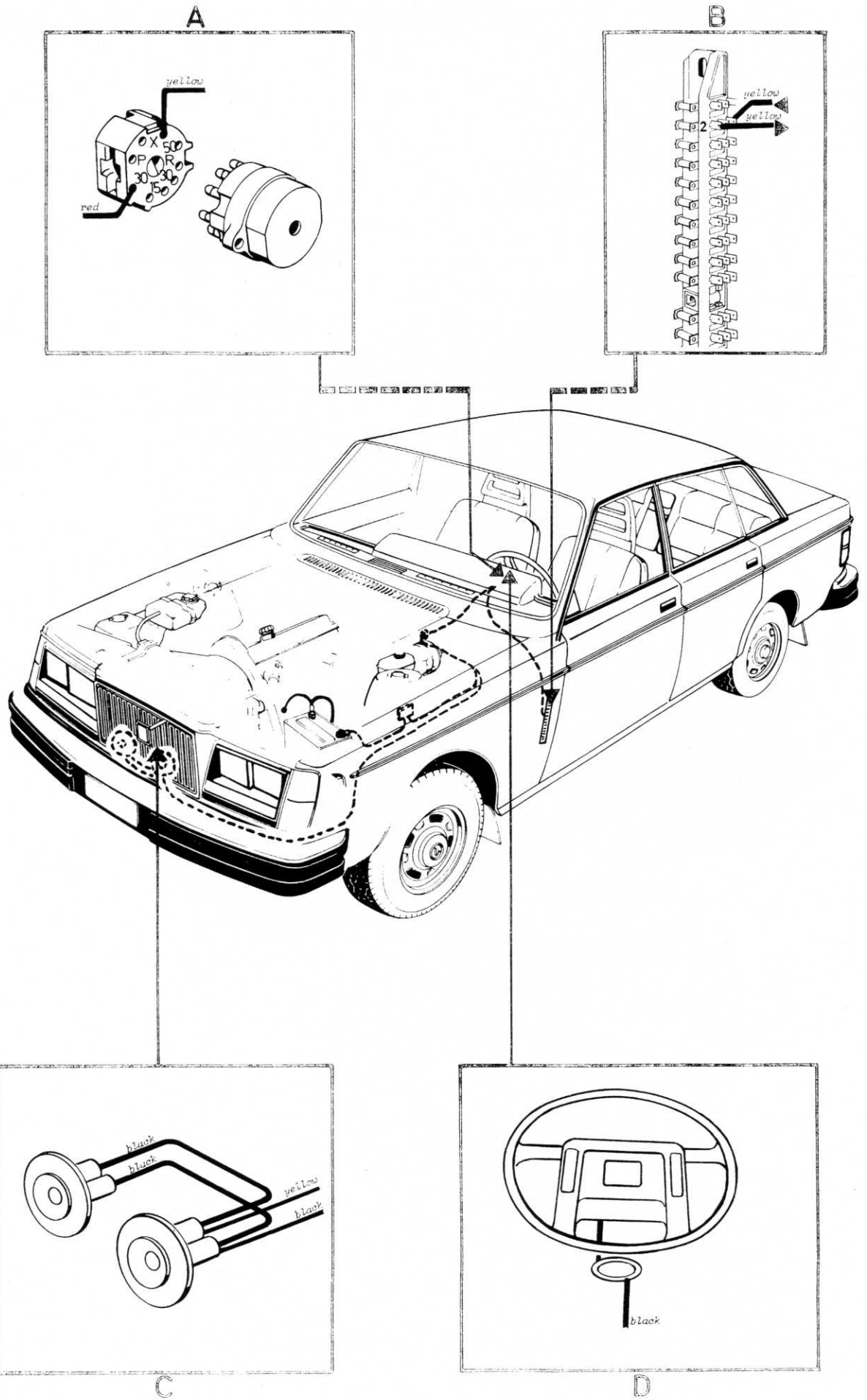


Fuse No. 2:
Windshield wiper/washer
Horn

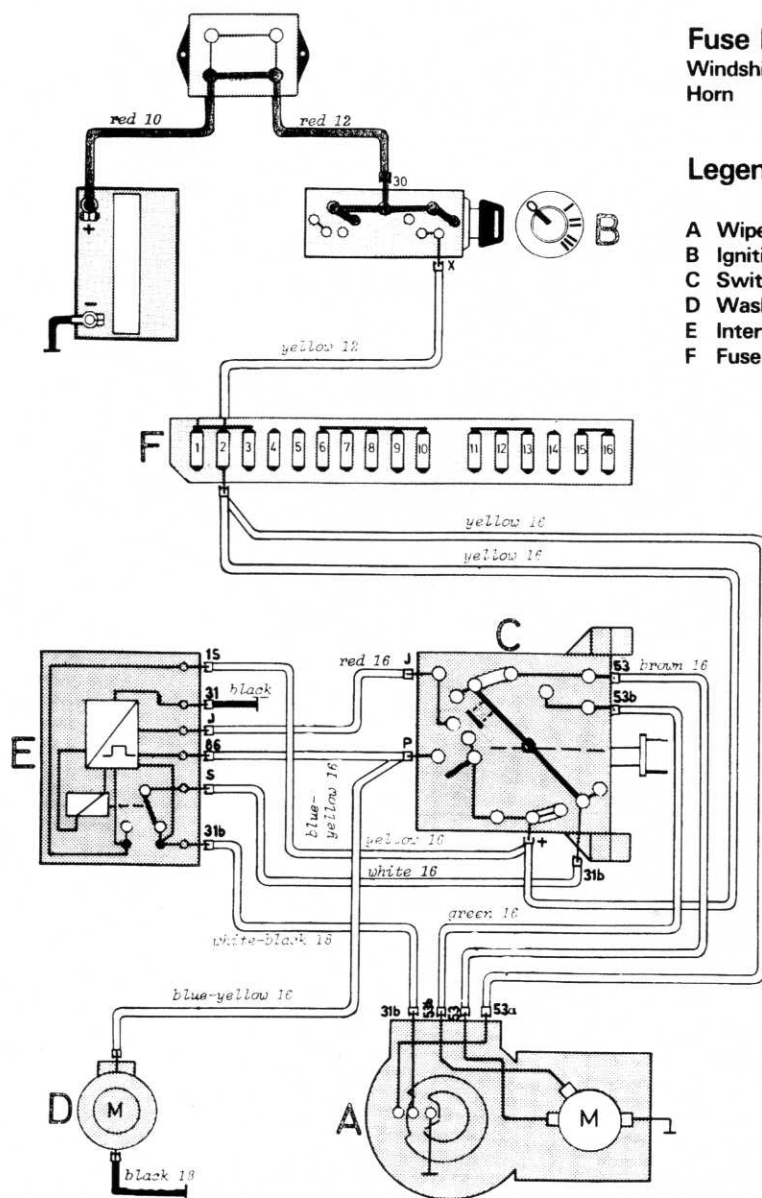
Legend:
A Ignition switch
B Fuse box
C Horn
D Horn contact



Horn contact depressed.



Windshield wiper and washer

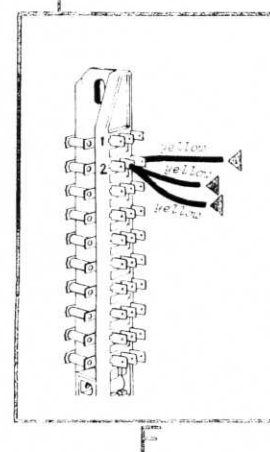
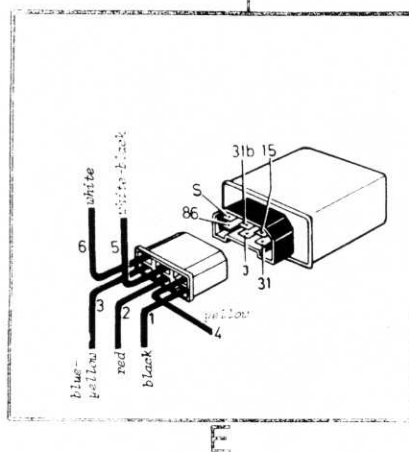
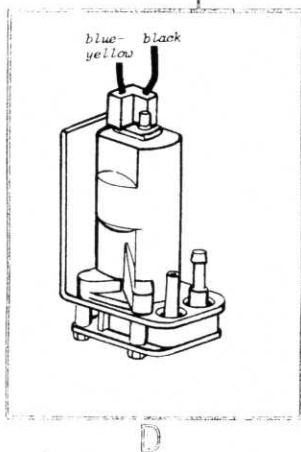
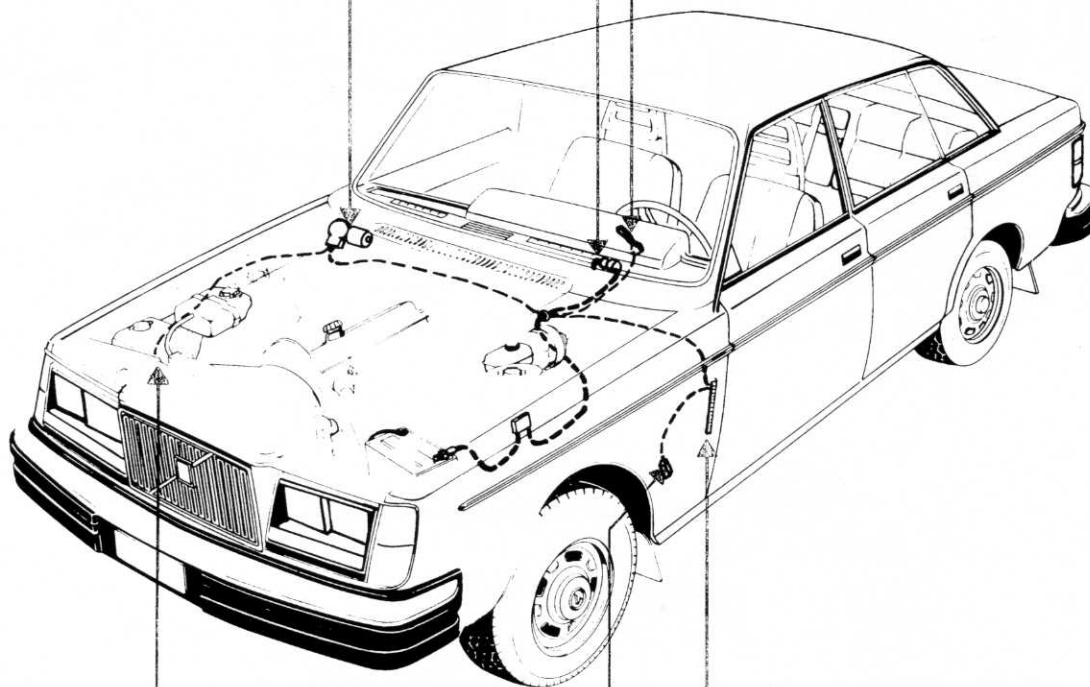
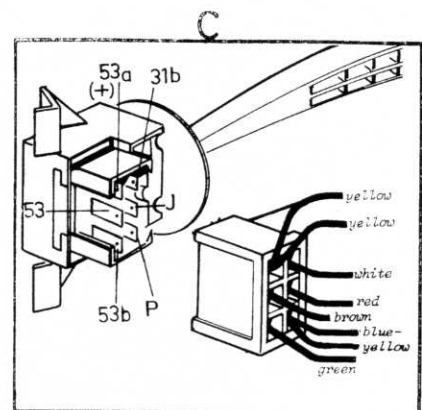
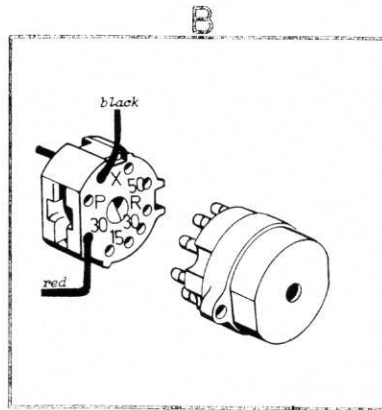
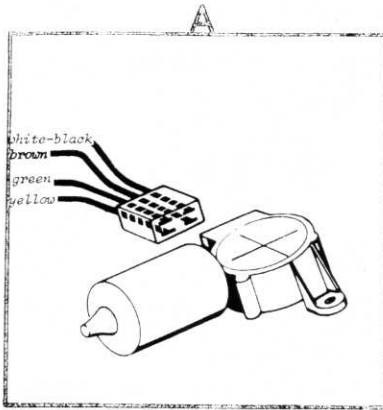


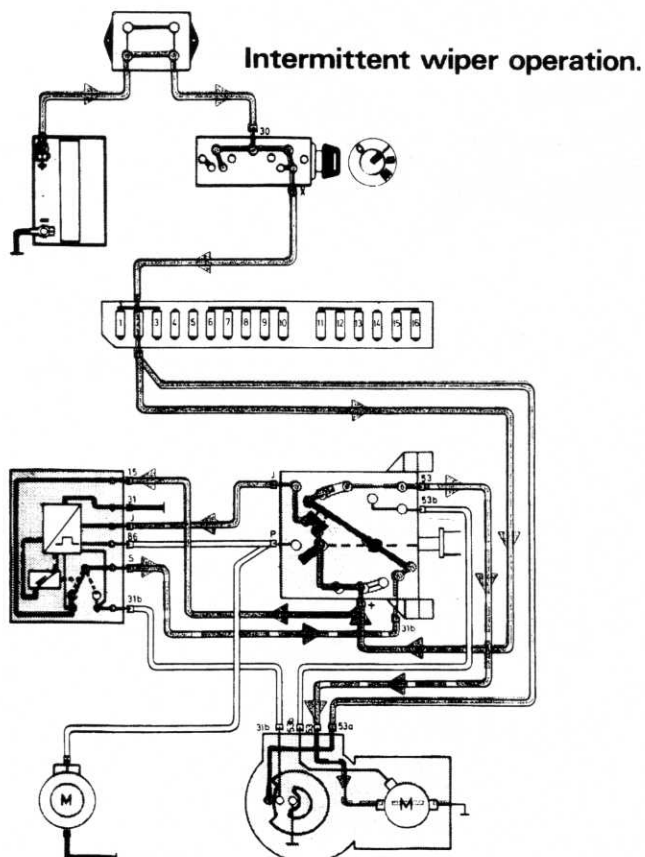
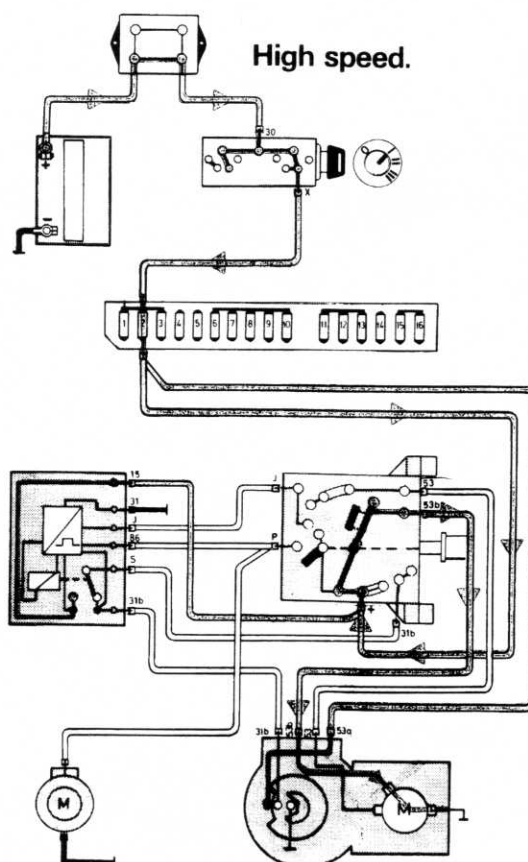
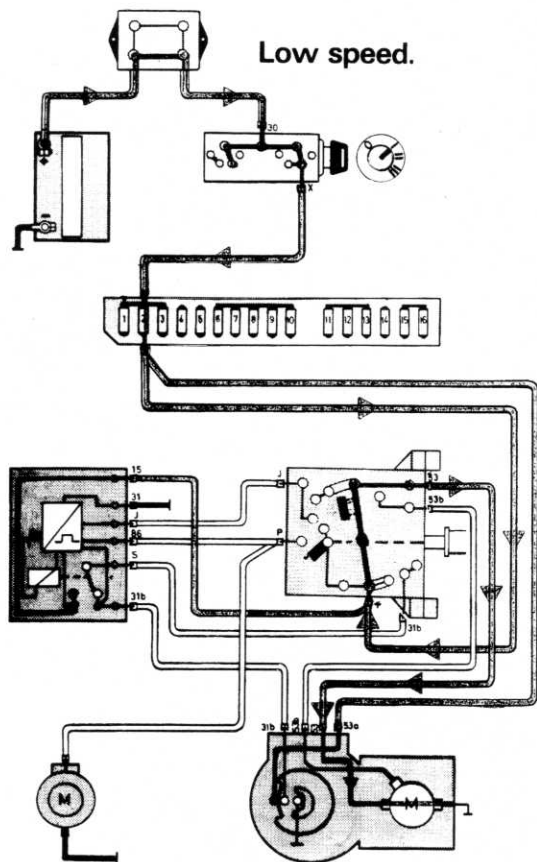
Fuse No. 2:

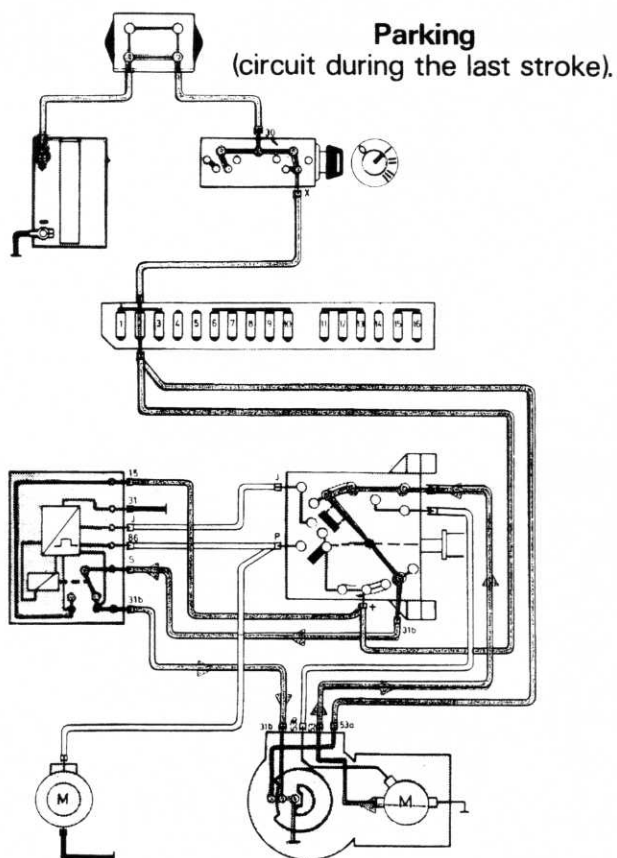
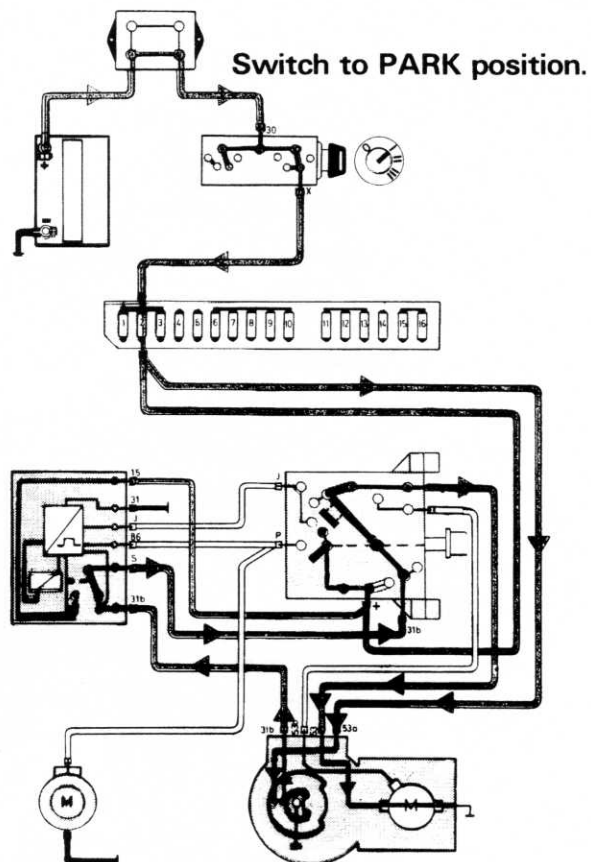
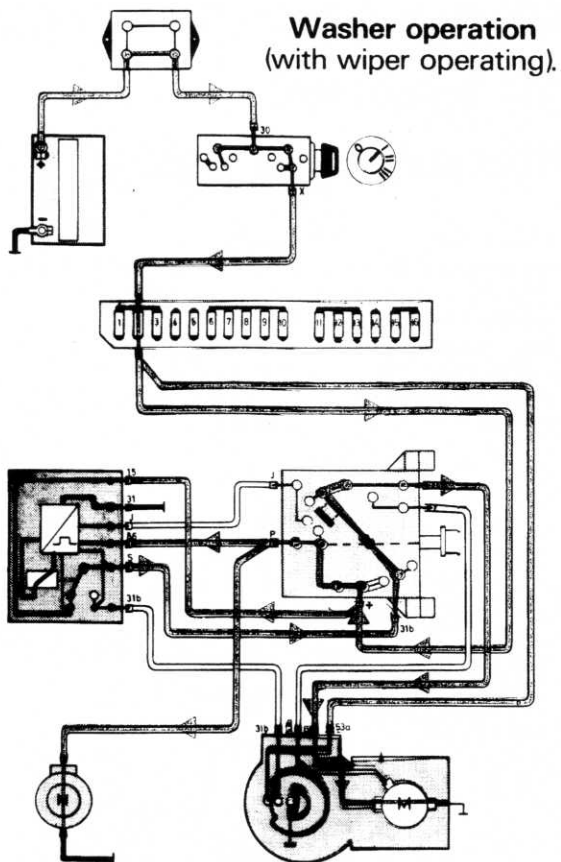
Windshield wiper and washer
Horn

Legend:

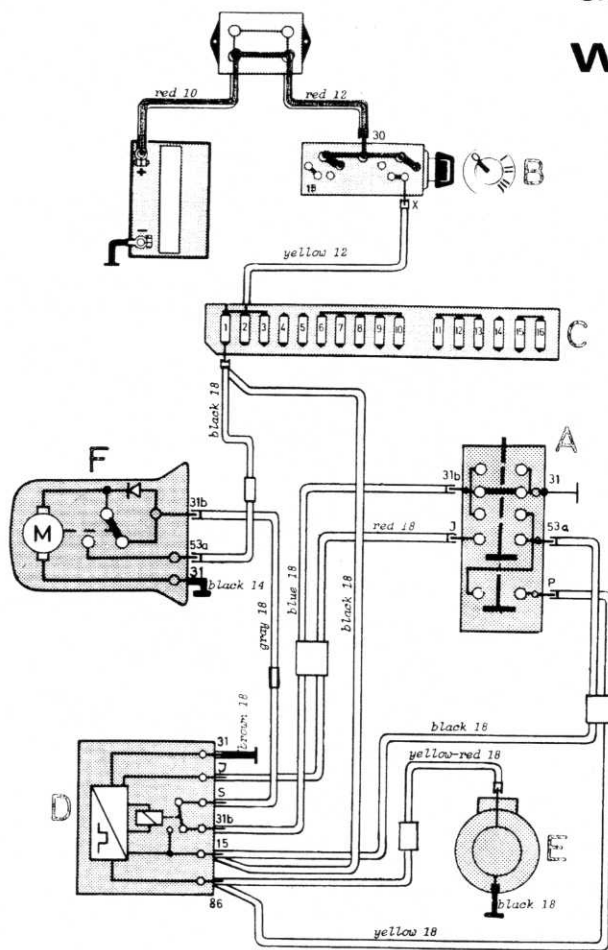
- A Wiper motor
- B Ignition switch
- C Switch, wiper / washer
- D Washer motor
- E Interval relay
- F Fuse box





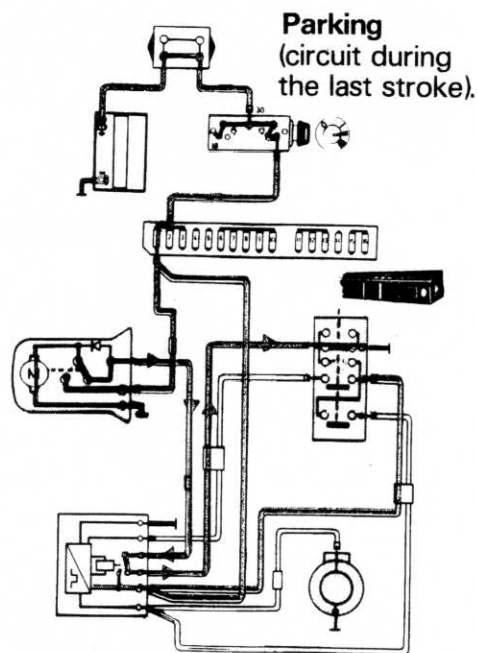


Tail gate window wiper and washer, with interval relay



Fuse No. 1:
Cigarette lighter
Tail gate window
wiper and washer
Electrically operated
side mirrors
Radio (and power
antenna)

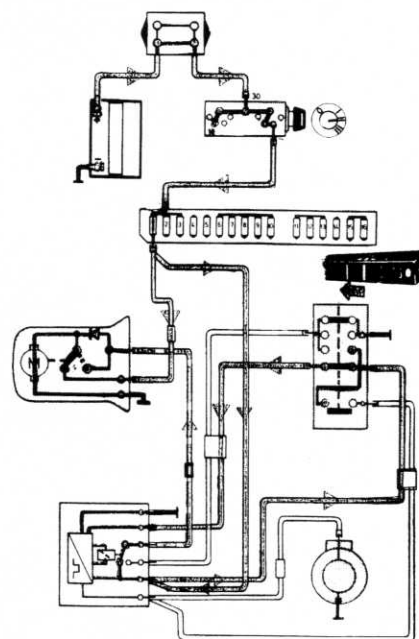
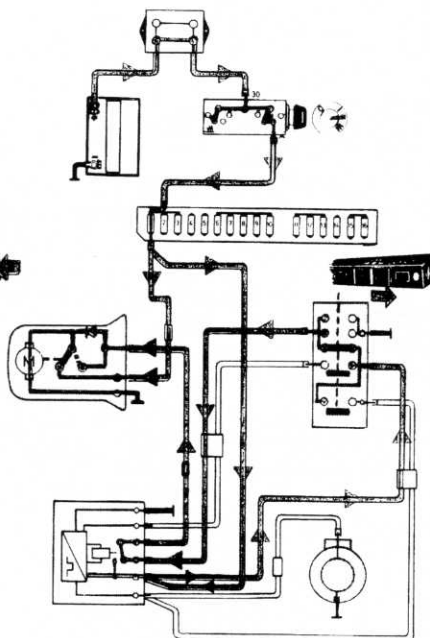
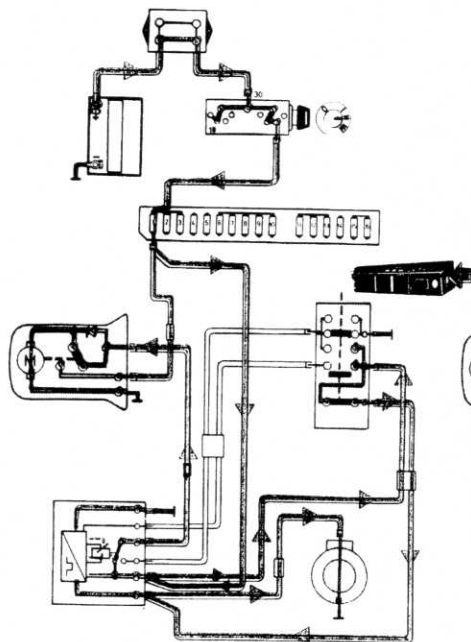
Legend:
A Switch, tail gate window
wiper / washer
B Ignition switch
C Fuse box
D Interval relay
E Washer motor
F Wiper motor

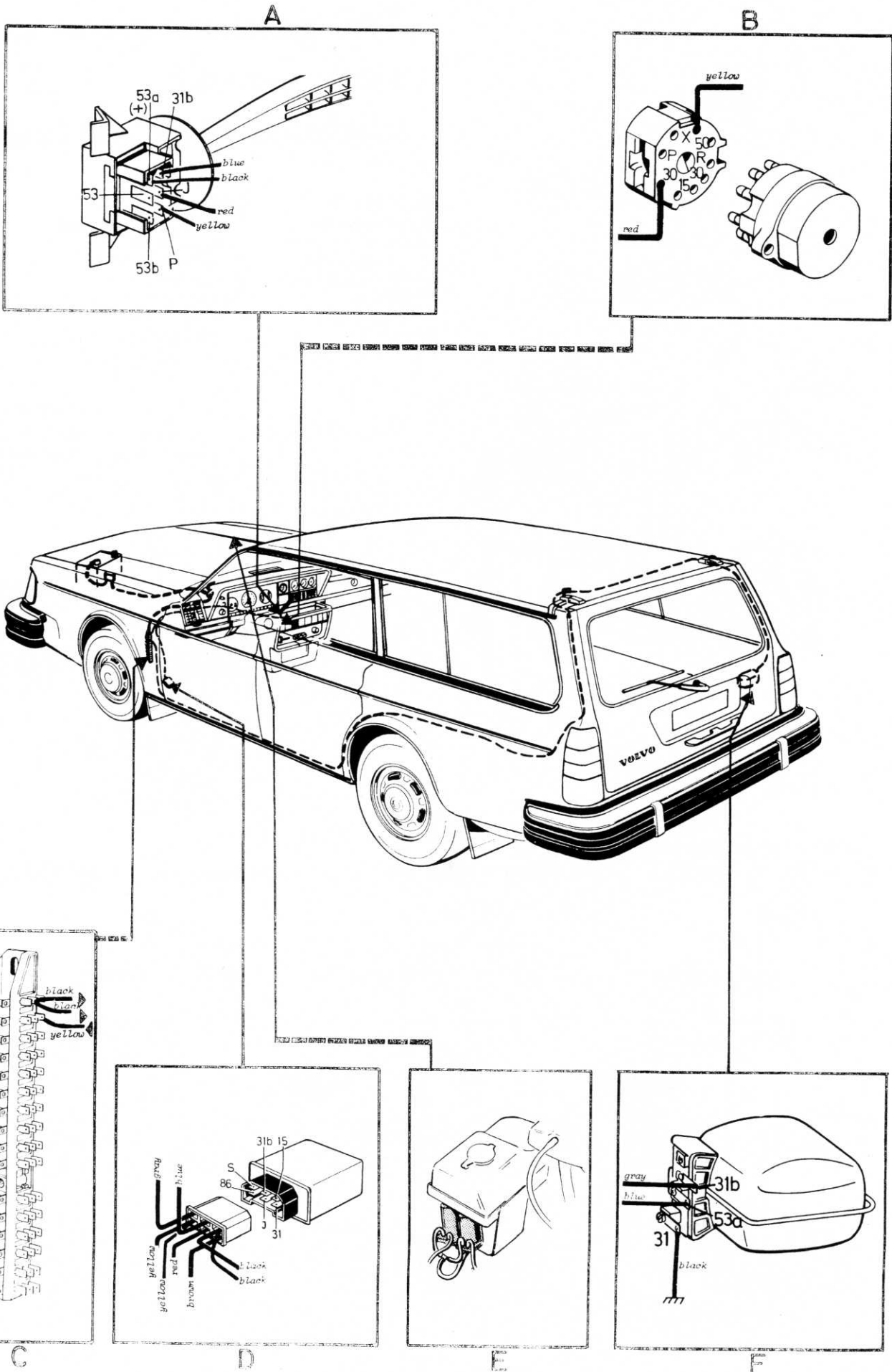


**Washer ON. Wiper motor
makes a few strokes.**

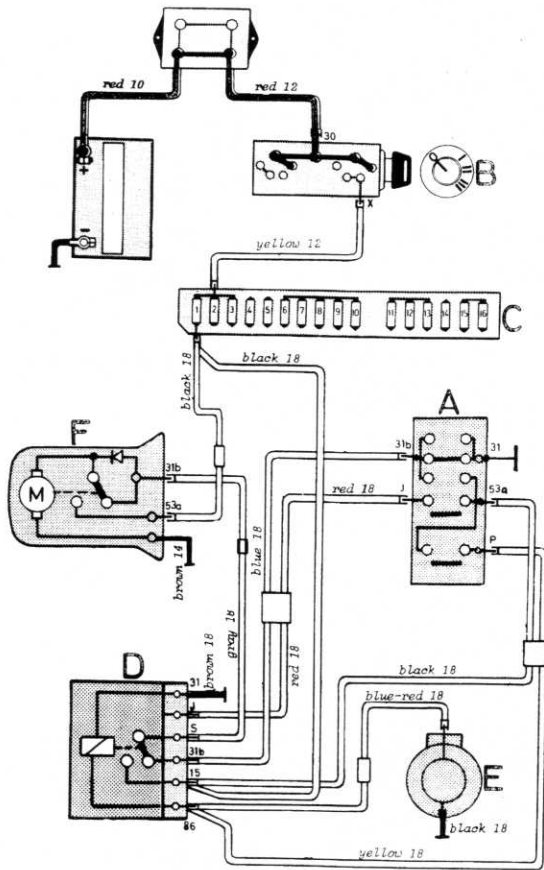
Wiper motor ON.

Intermittent wiper operation.



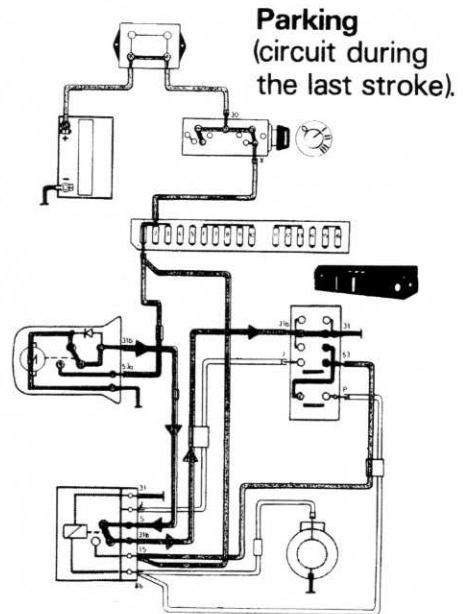


Tail gate window wiper and washer, without interval relay

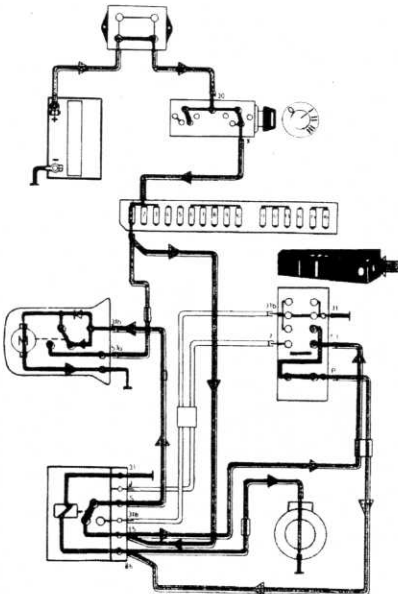


Fuse No. 1:
Cigarette lighter
Tail gate window
wiper and washer
Electrically operated
side mirrors
Radio (and power
antenna)

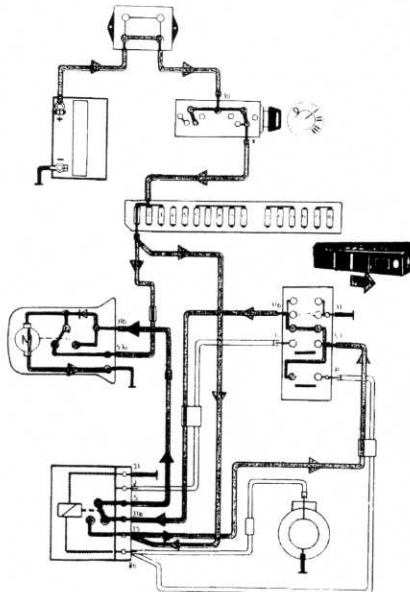
Legend:
A Switch, tail gate window
wiper / washer
B Ignition switch
C Fuse box
D Connector
E Washer motor
F Wiper motor



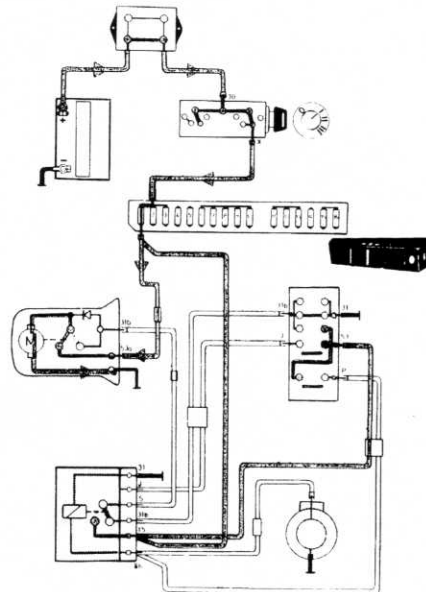
Washer operation
(with wiper operating).

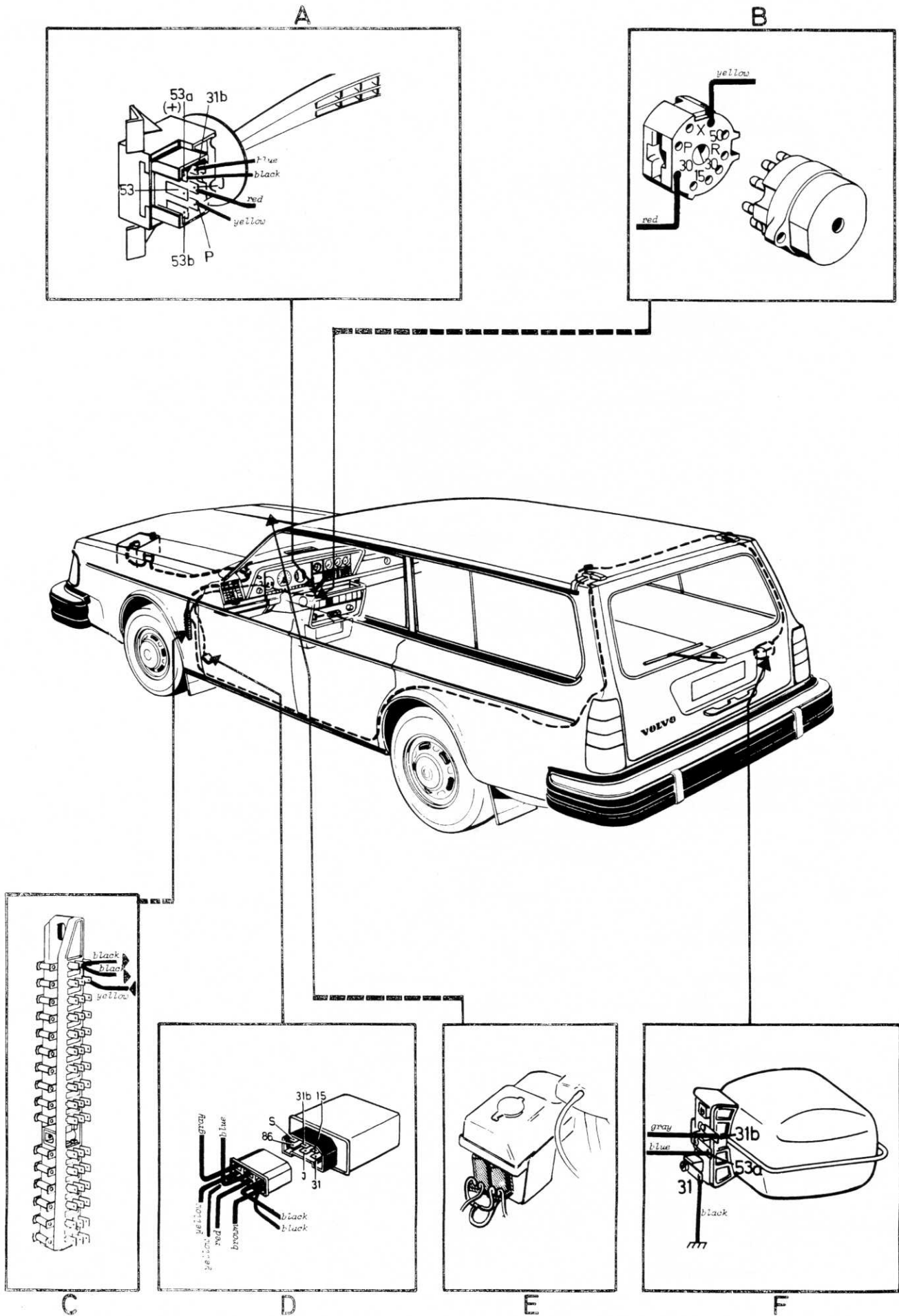


Wiper motor ON.

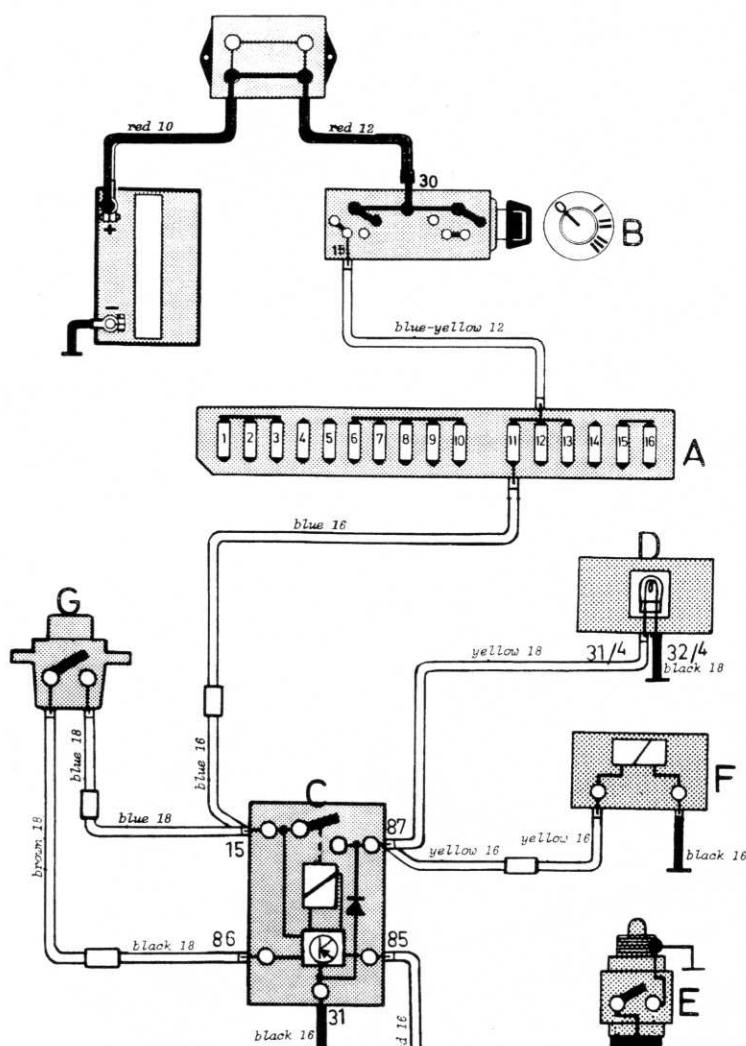


Switch to PARK position.





Overdrive



Fuse No. 11:

Overdrive
Rear demist

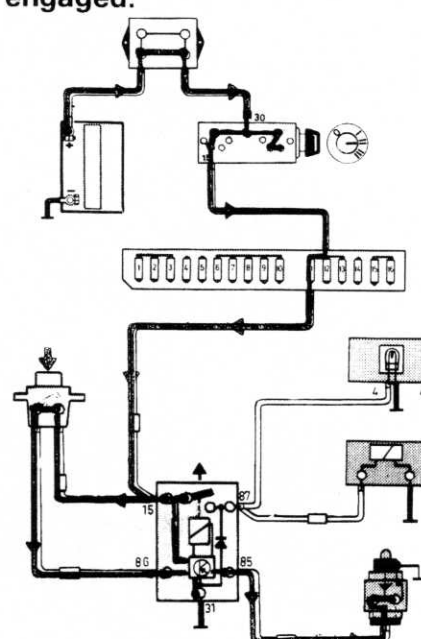
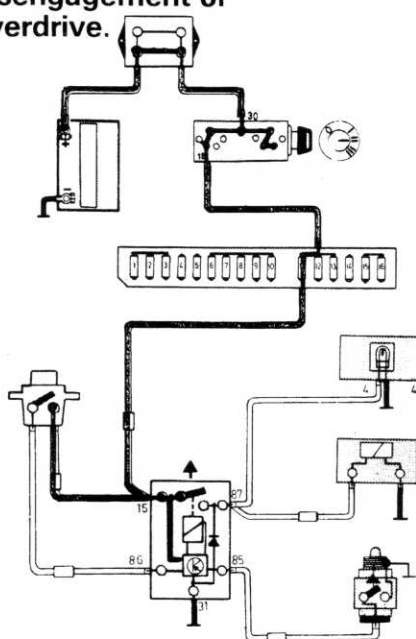
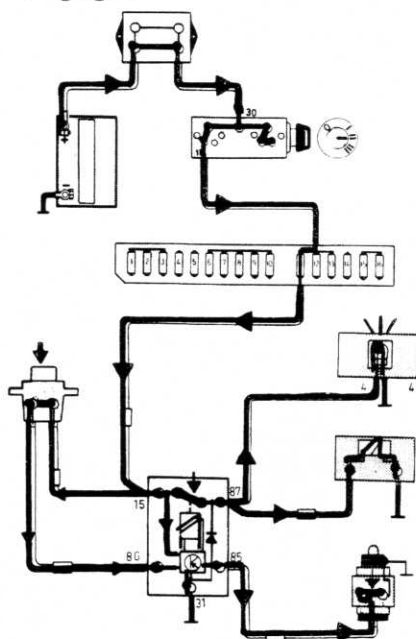
Legend:

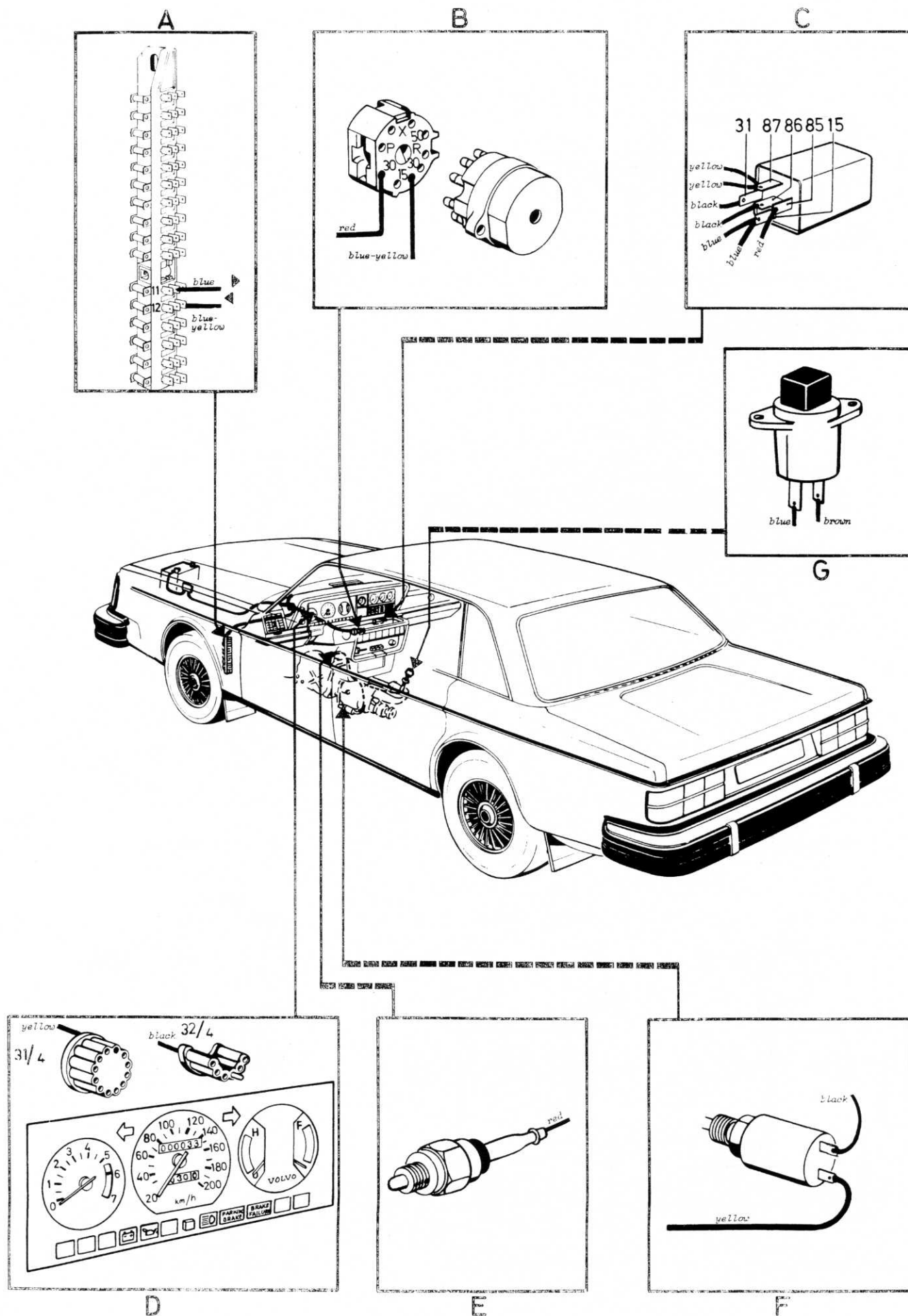
- A Fuse box
- B Ignition switch
- C Overdrive relay
- D Indicator light in instrument cluster
- E Switch, on transmission
- F Solenoid (in overdrive)
- G Overdrive engagement switch (on gear lever)

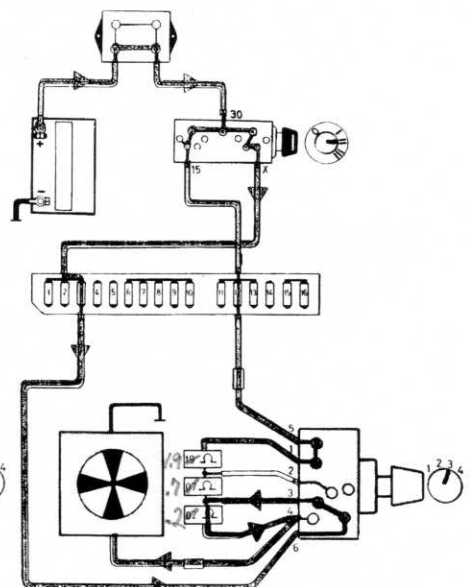
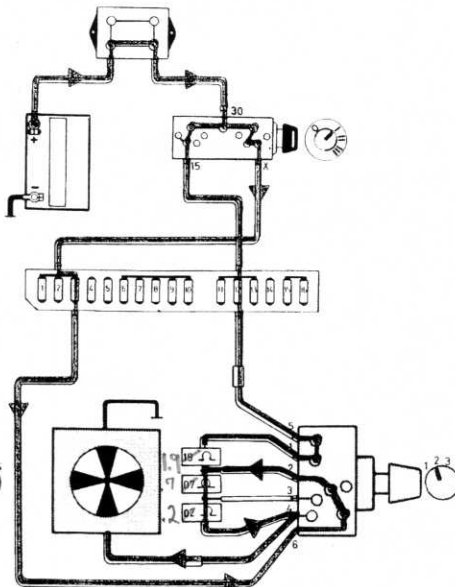
Manual engagement of overdrive. Fourth gear engaged.

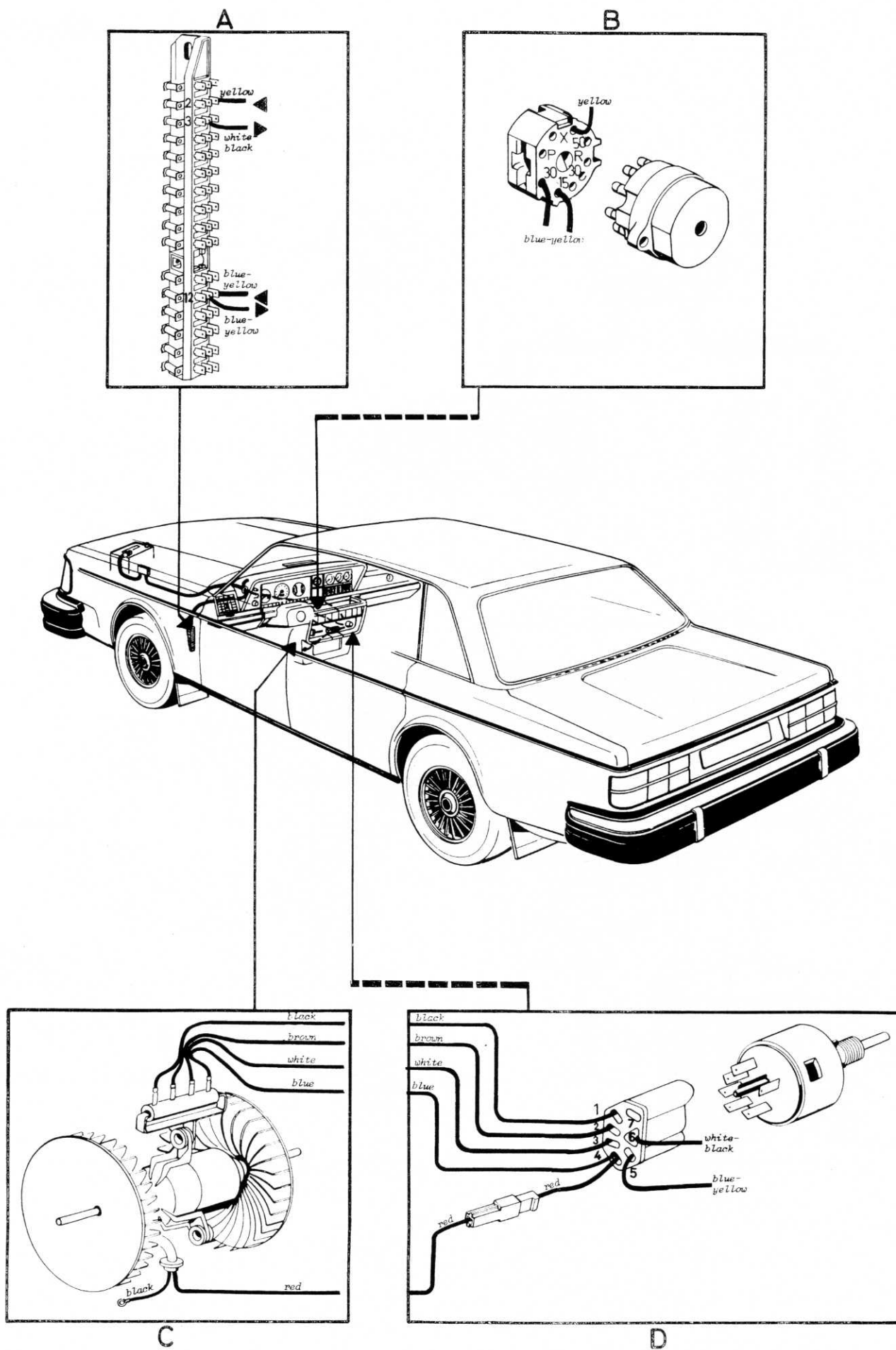
Downshift from fourth gear. Automatic disengagement of overdrive.

Manual disengagement of overdrive. Fourth gear engaged.

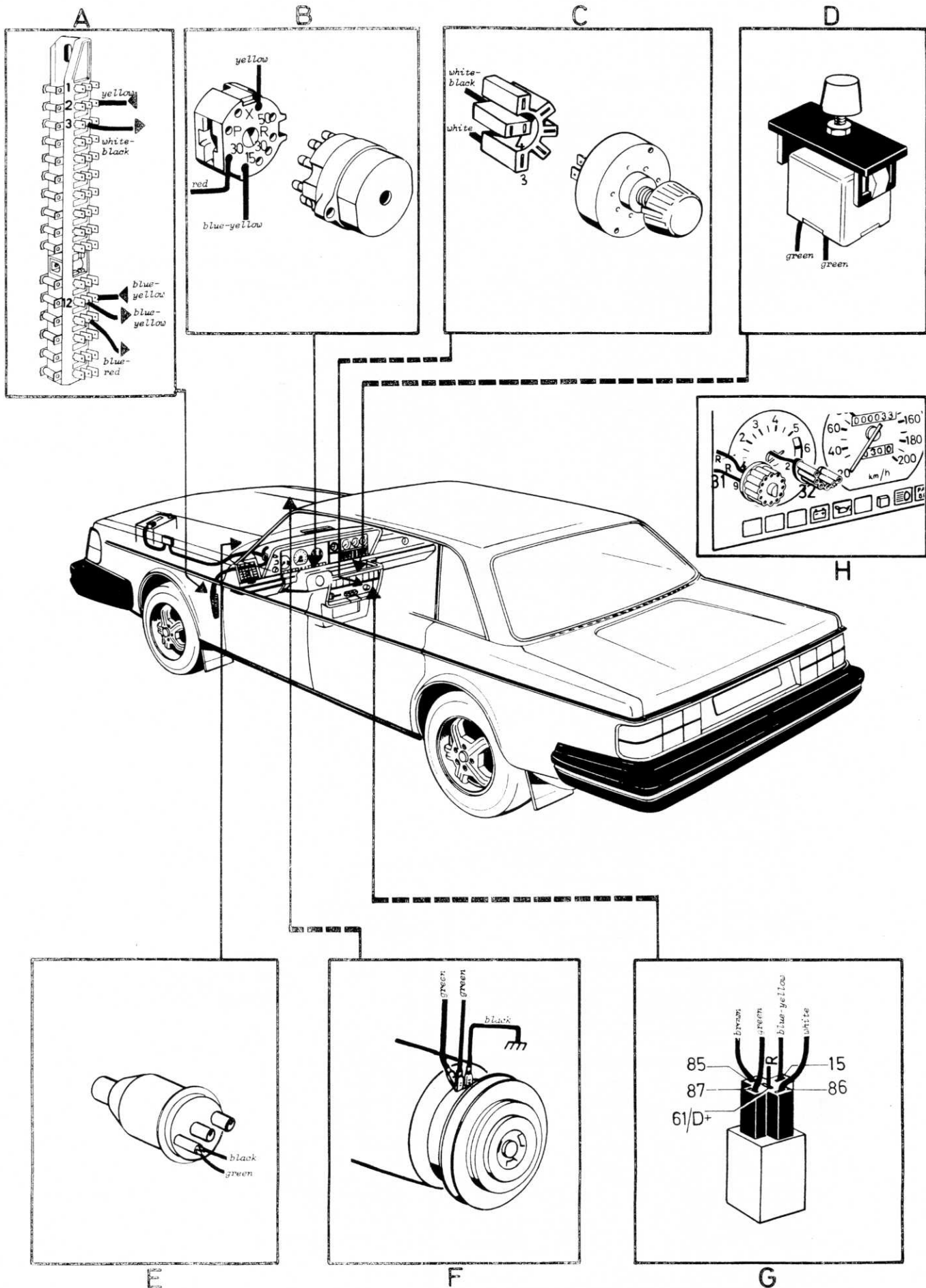


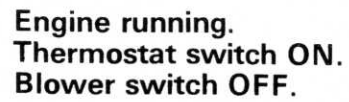
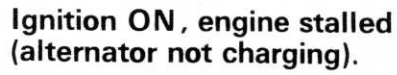


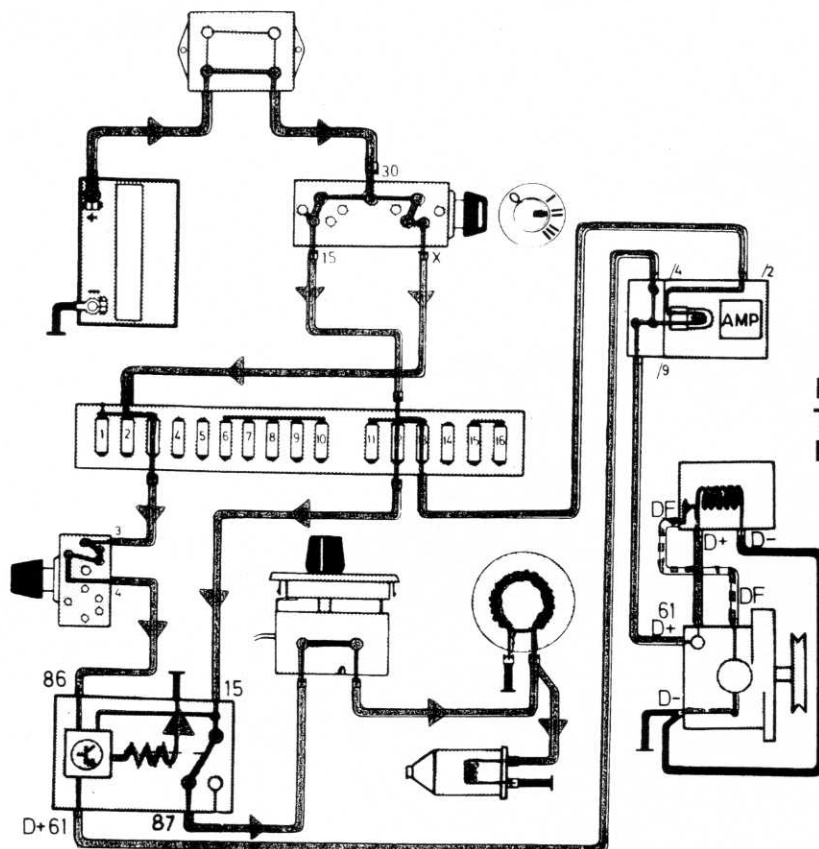




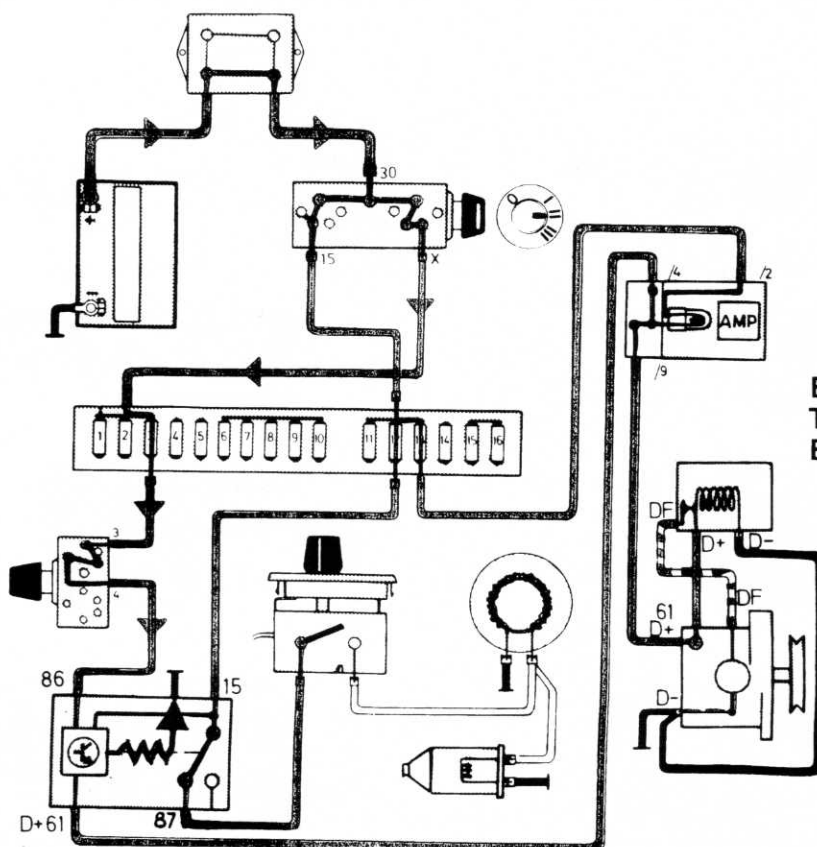






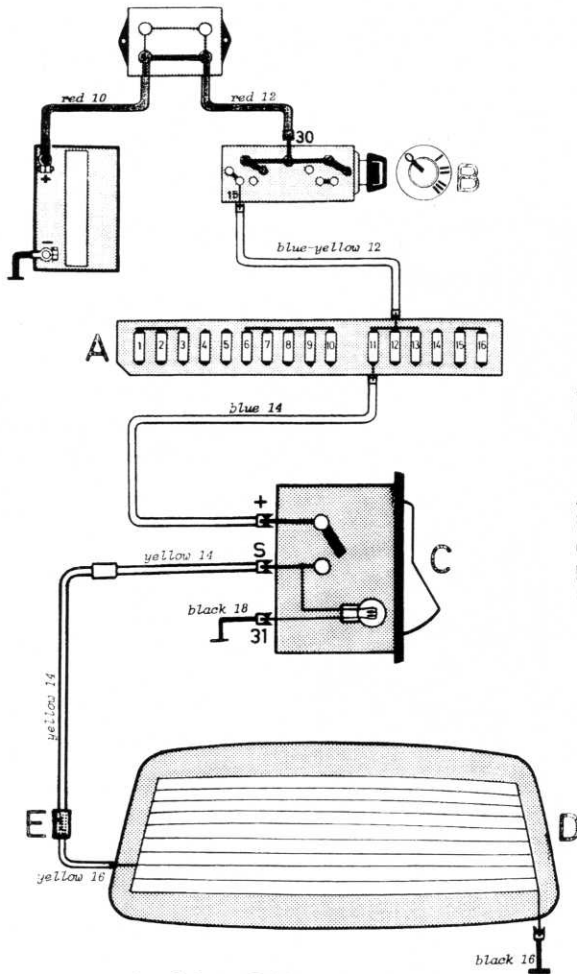


Engine running.
Thermostat switch ON.
Blower switch ON.

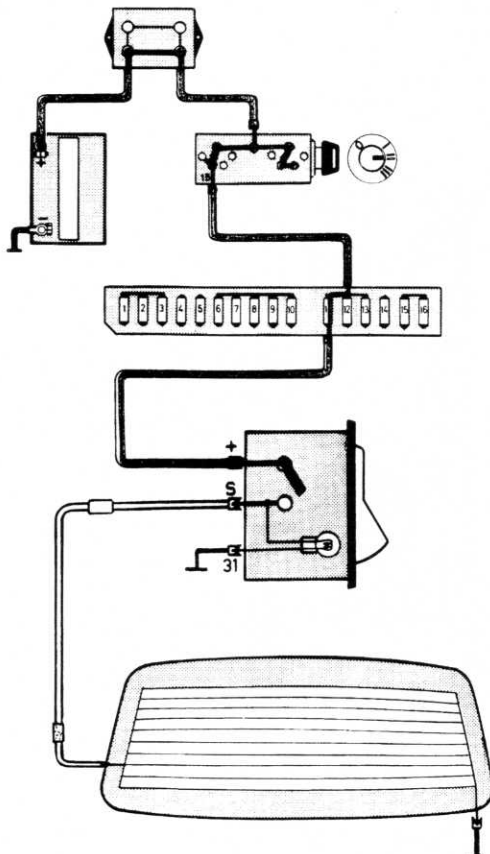


Engine running.
Thermostat switch OFF.
Blower switch ON.

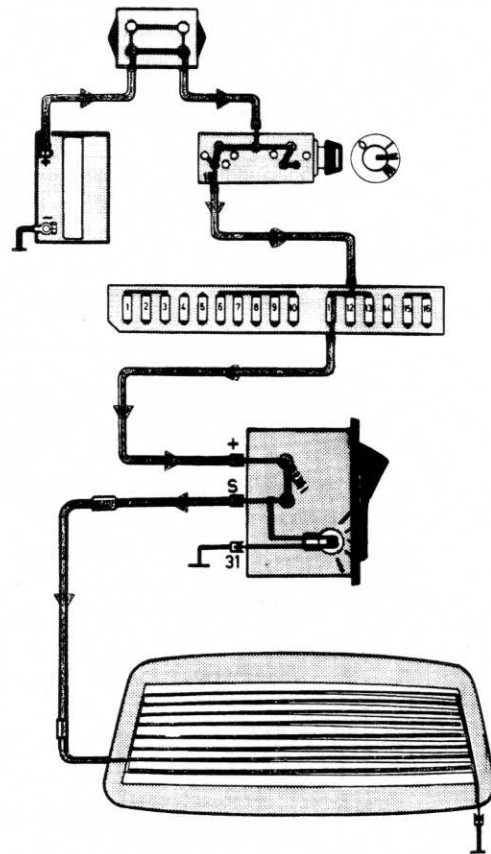
Rear demist



Ignition ON.
Rear demist OFF.



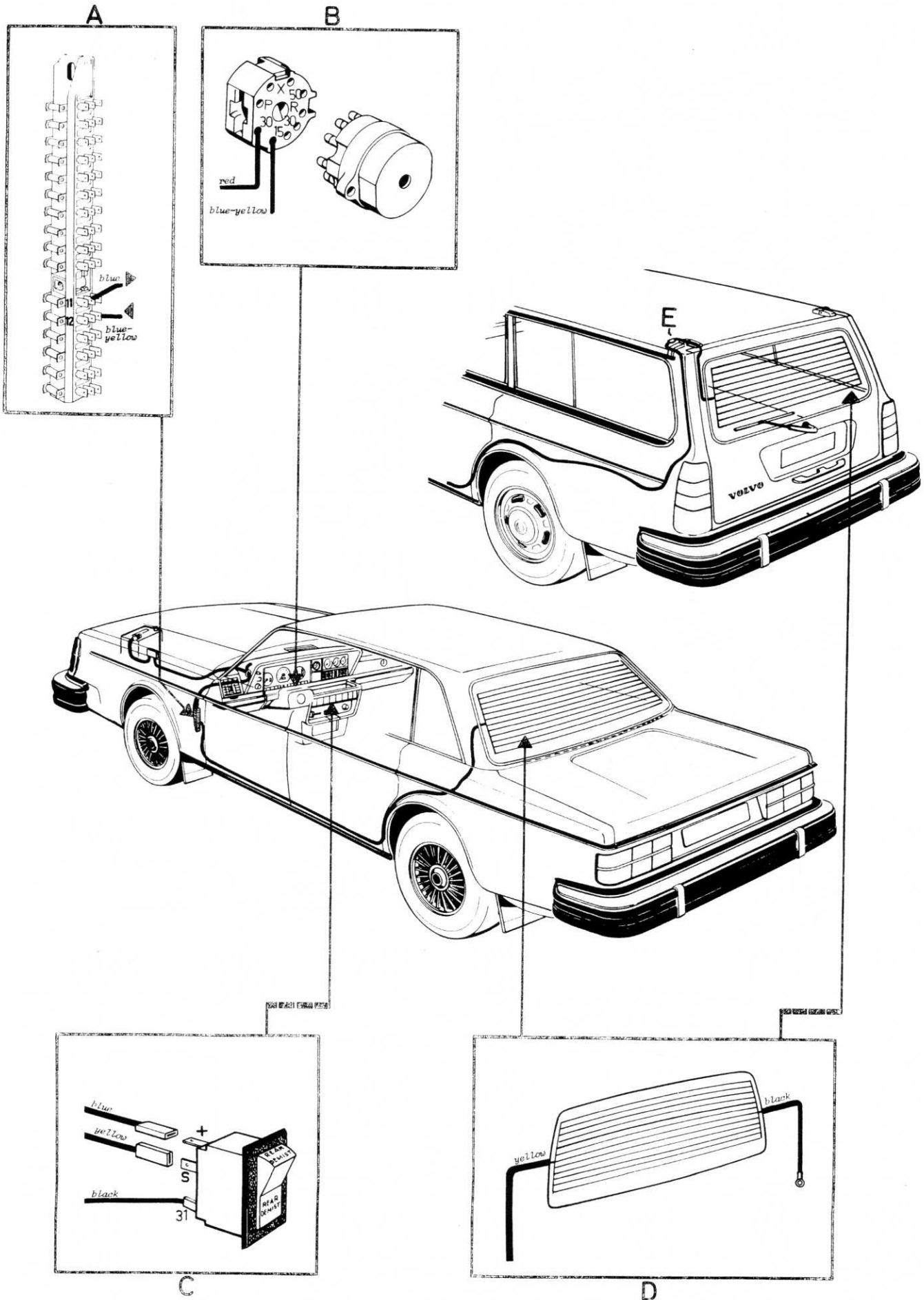
Ignition ON.
Rear demist ON.



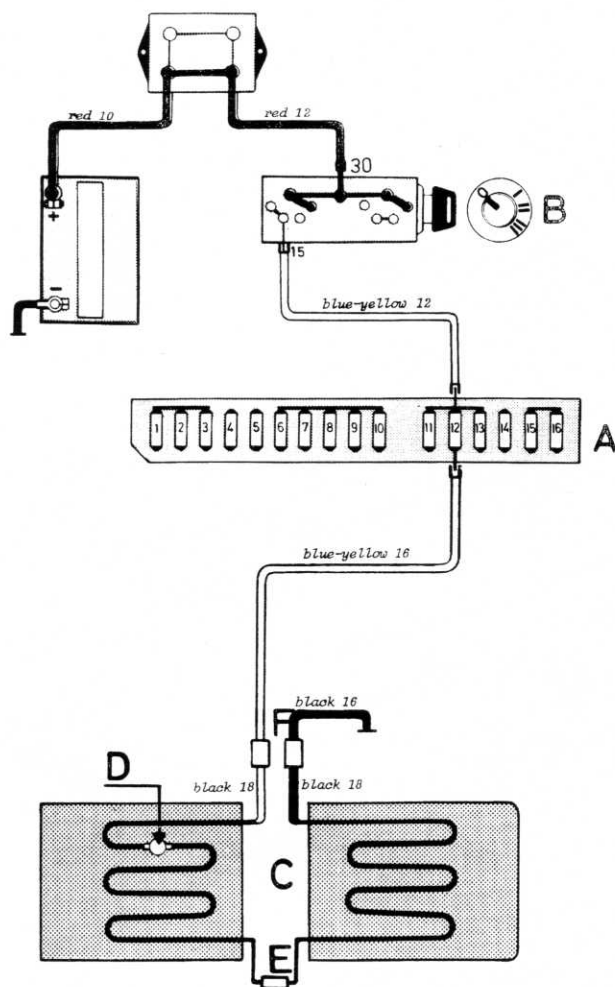
Fuse No. 11:
Overdrive
Rear demist

Legend:

- A Fuse box
- B Ignition switch
- C Switch, rear demist
- D Electrically heated rear window
- E Connector (wagon)



Electrically heated driver's seat

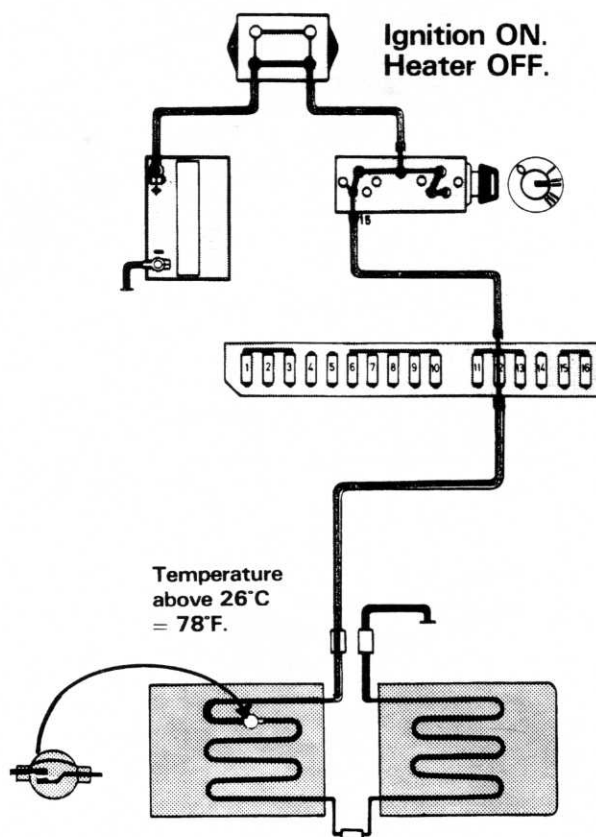
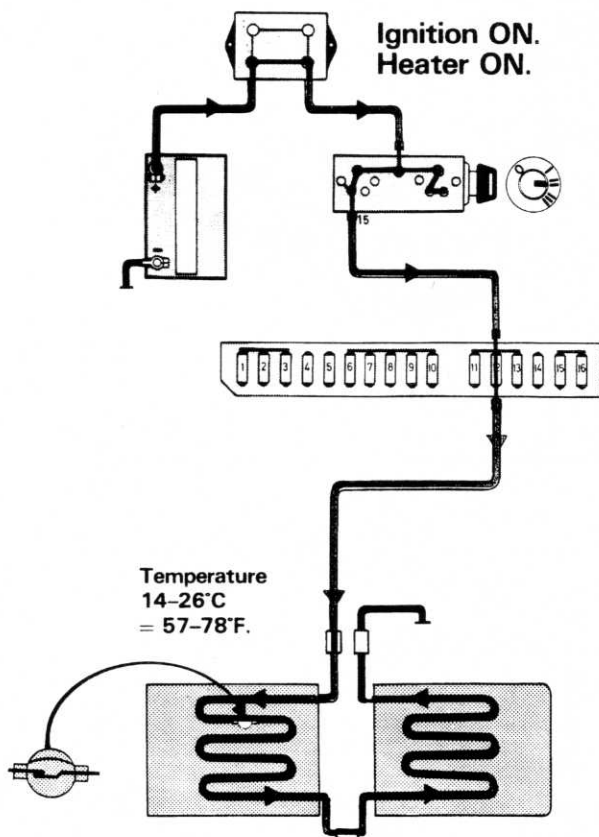


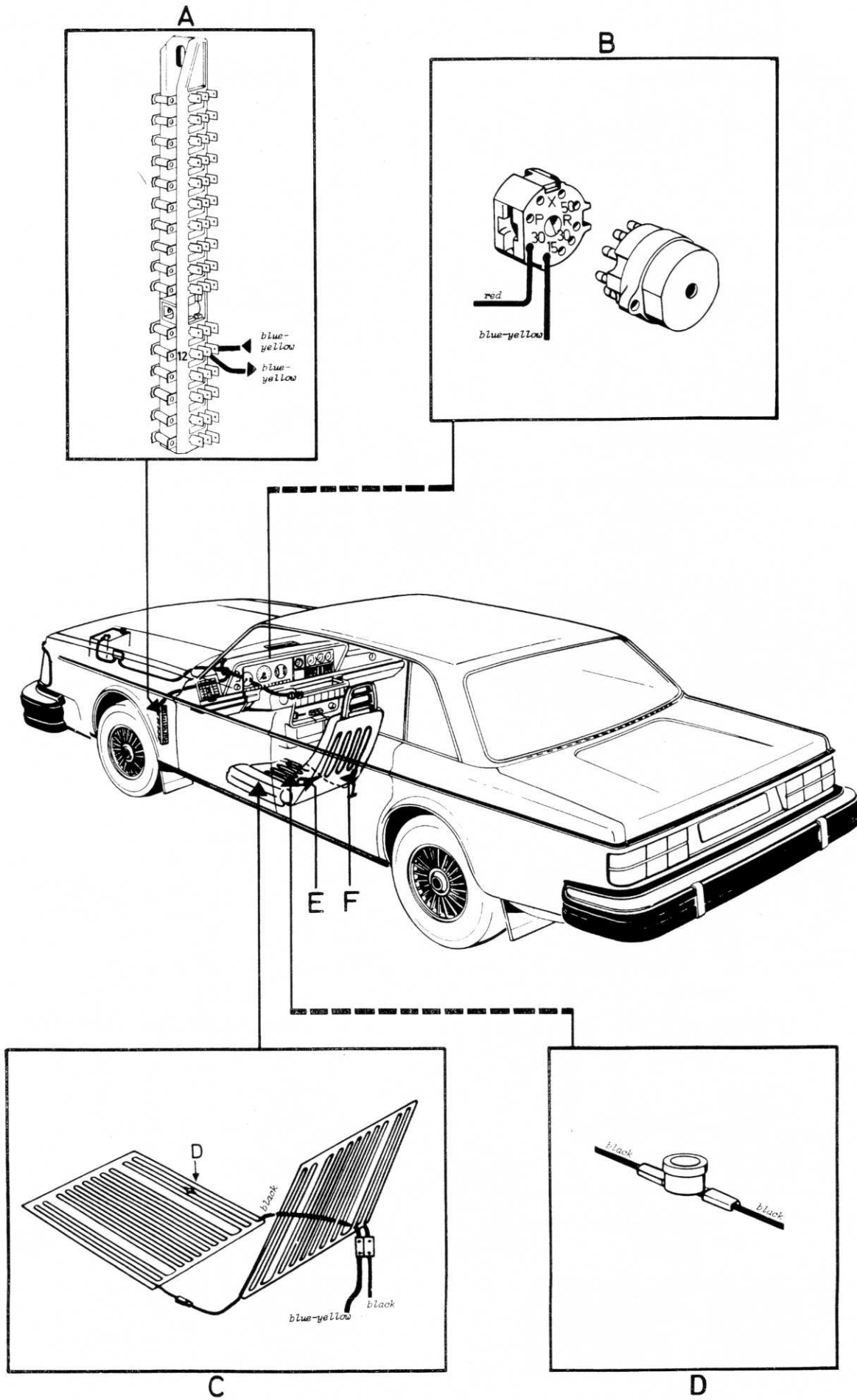
Fuse No. 10:
Window lifts

Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

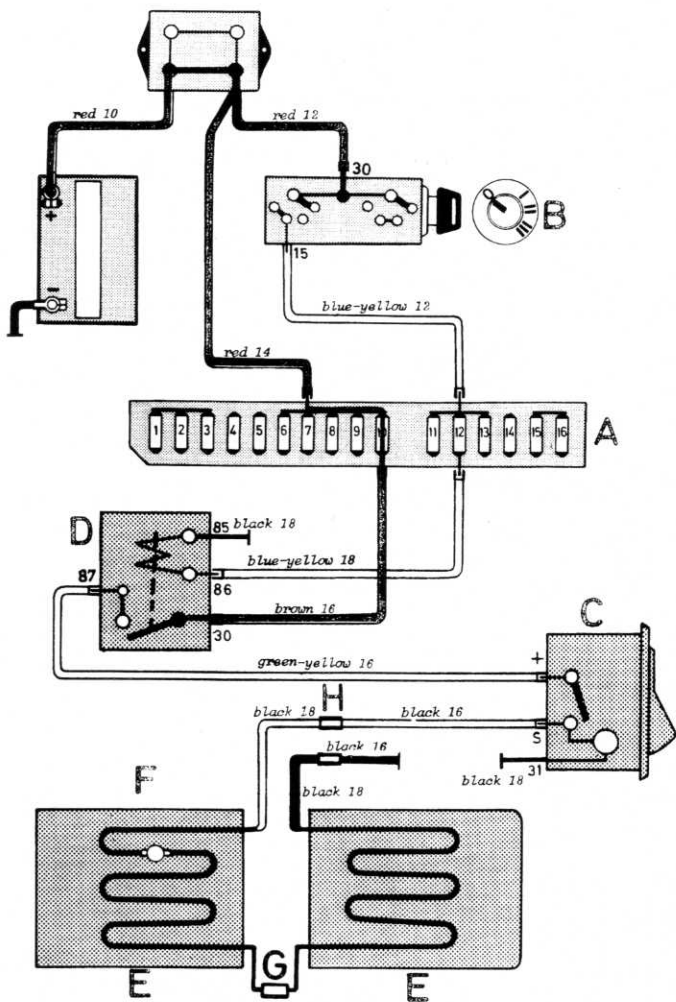
Legend:

- A Fuse box
- B Ignition switch
- C Heater pad
- D Thermostat
- ON at 14°C = 57°F
- OFF at 26°C = 78°F
- E Connector
- F Connector





Electrically heated passenger's seat

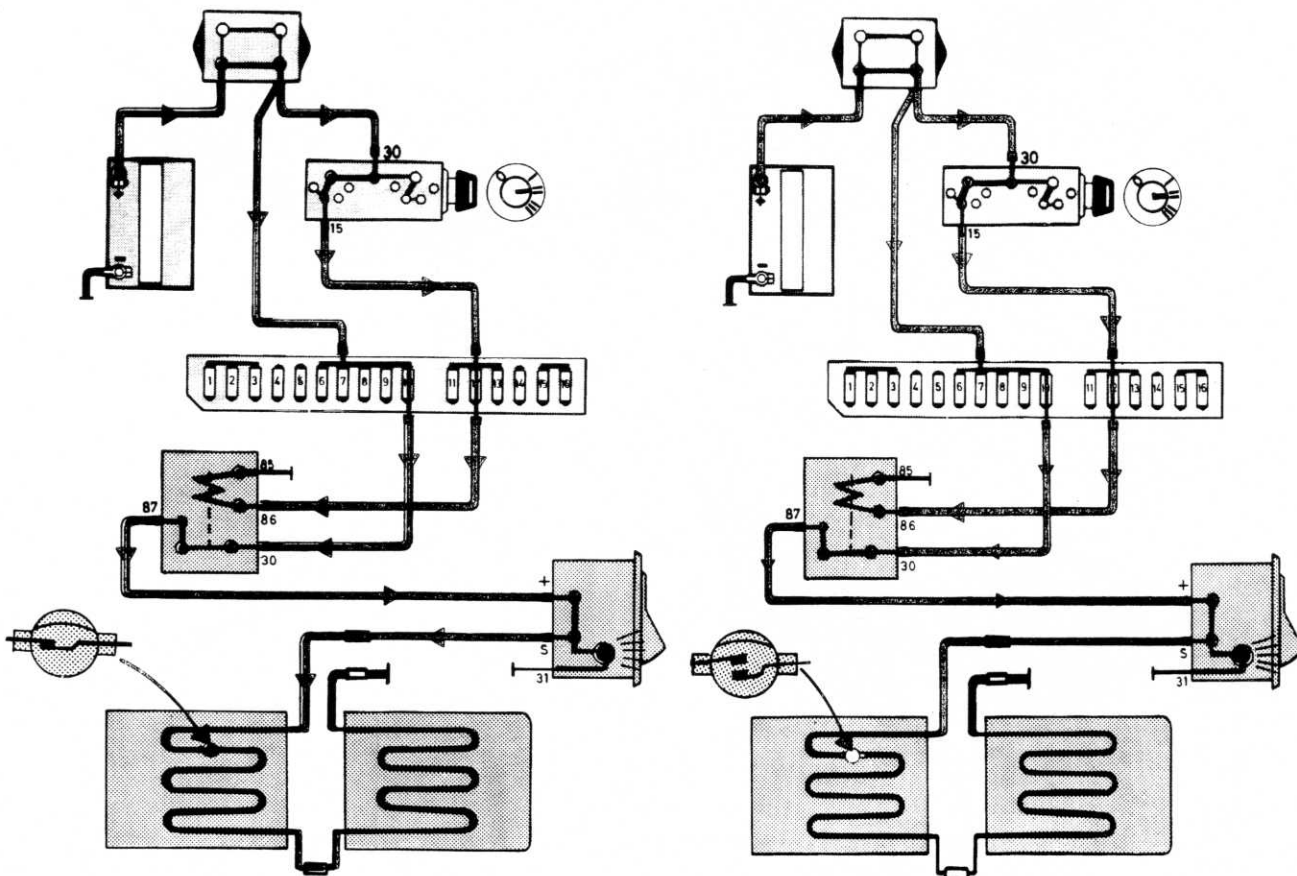


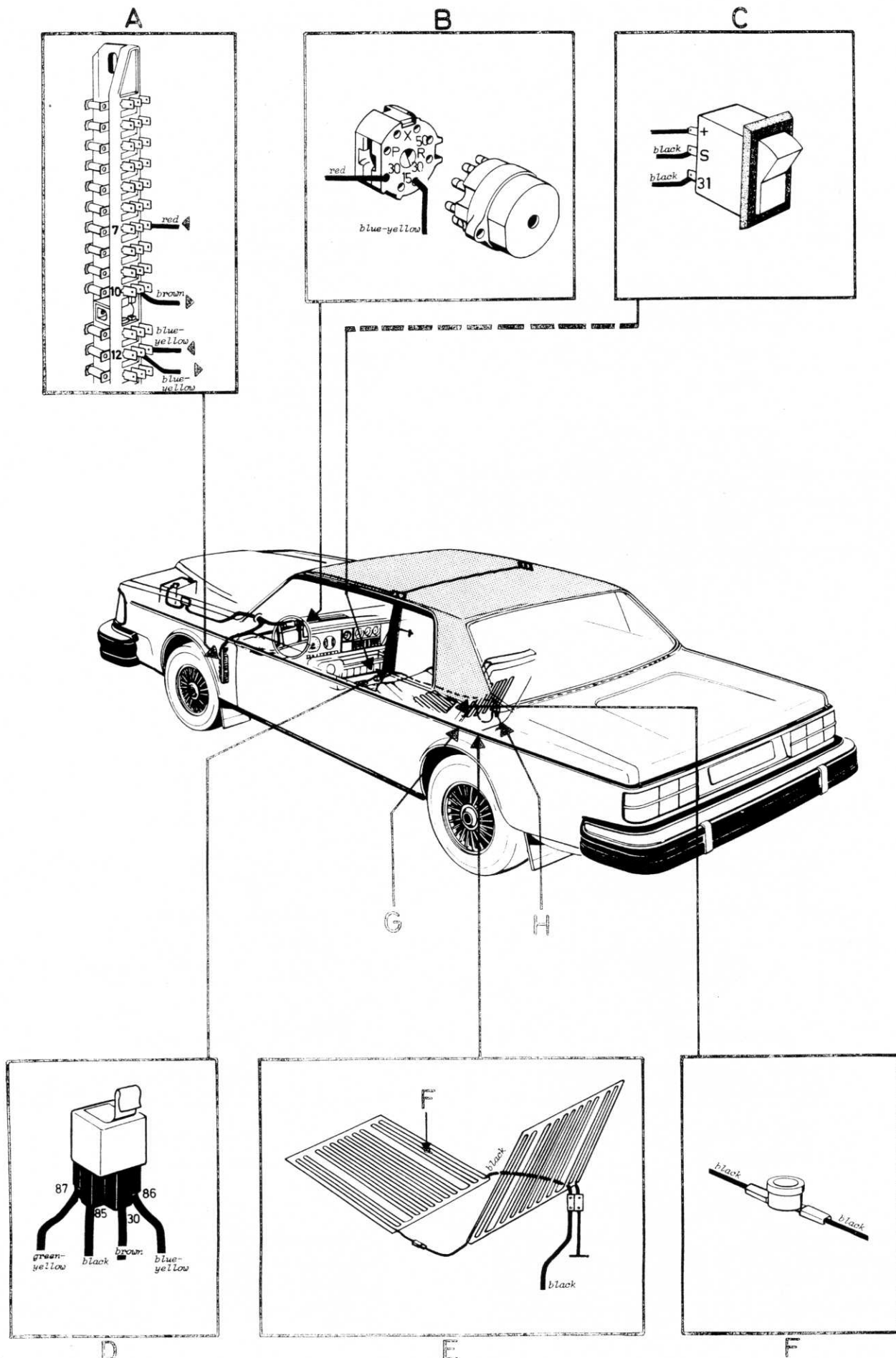
Fuse No. 10: Window lifts

Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

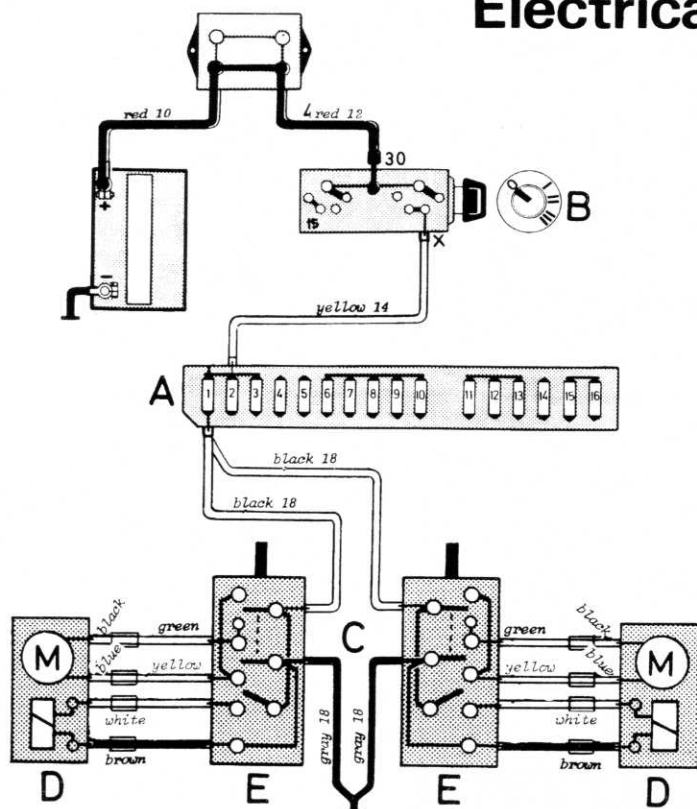
Legend:

- A Fuse box
B Ignition switch
C Switch, seat heater
D Relay
E Heater pad
F Thermostat
ON at 14°C = 57°F
OFF at 26°C = 78°F
G Connector
H Connector





Electrically operated side mirrors



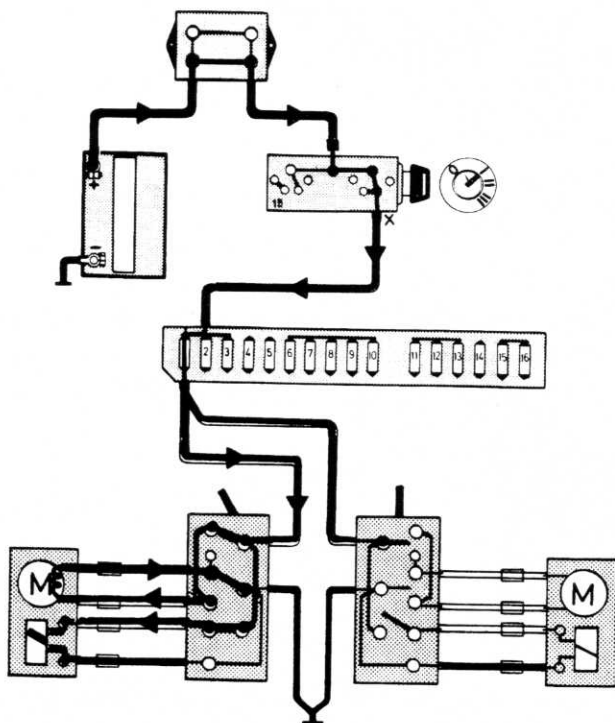
Fuse No. 1:

Cigarette lighter
Tail gate window wiper and washer
Electrically operated side mirrors
Radio (and power antenna)

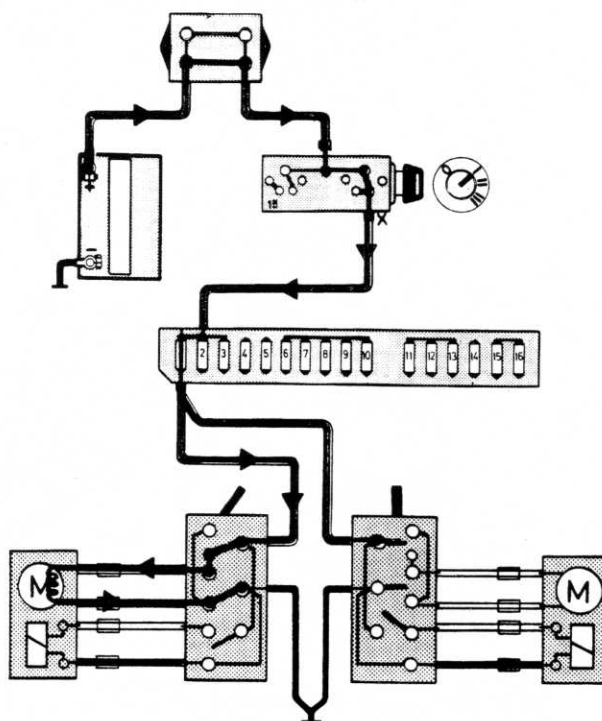
Legend:

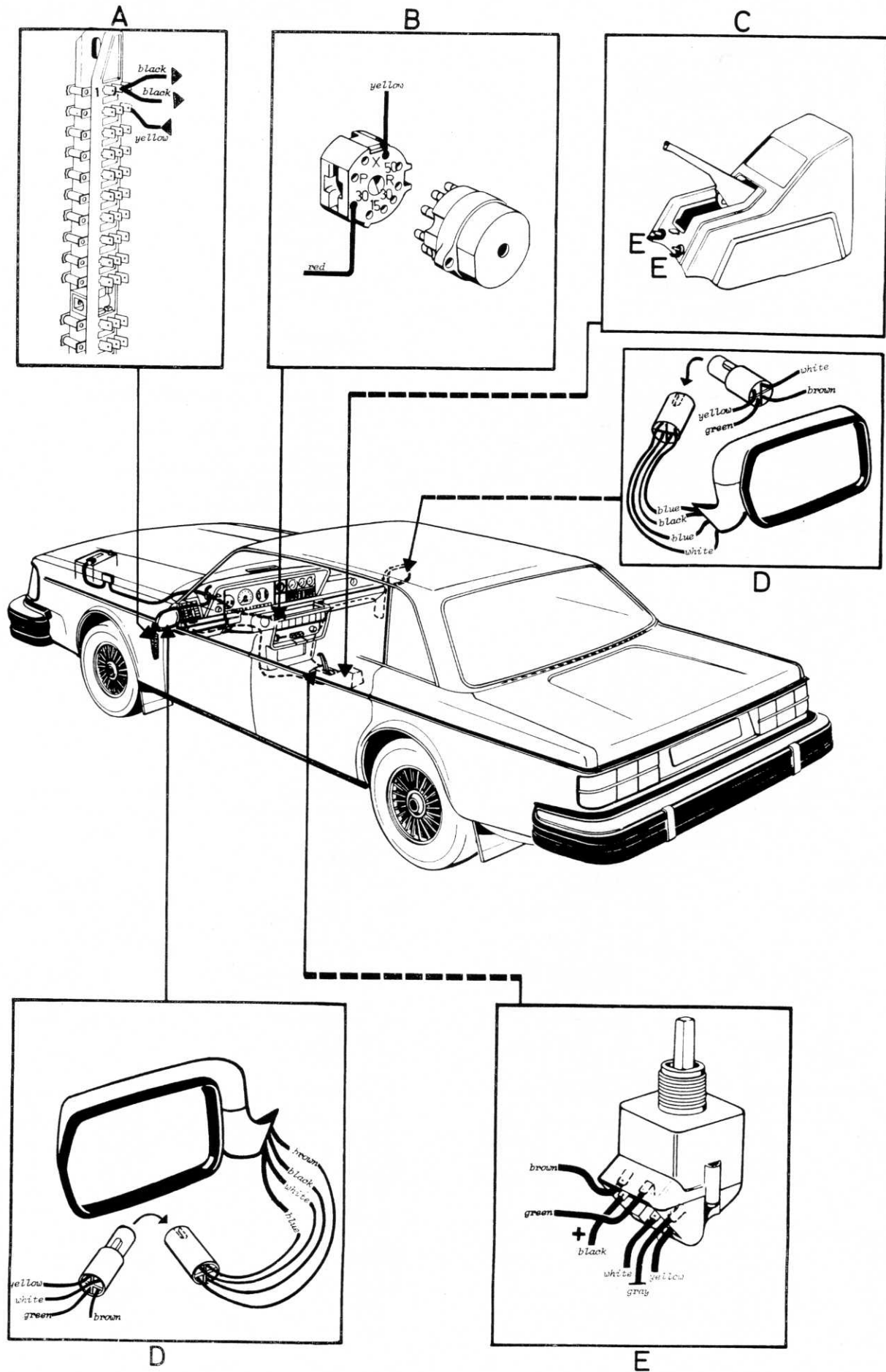
A Fuse box
B Ignition switch
C Cover, parking brake
D Electrically operated mirrors
E Switches

Operation one way.

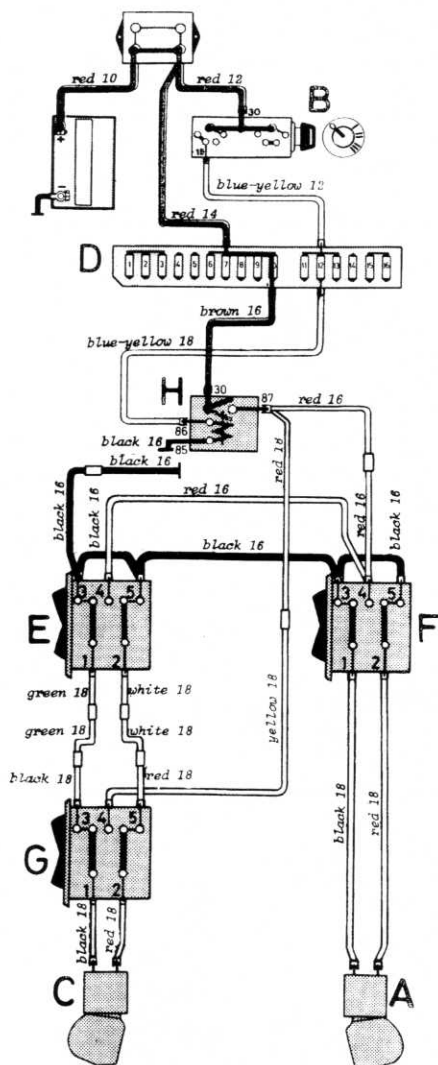


Operation other way.





Window lifts, 2-door



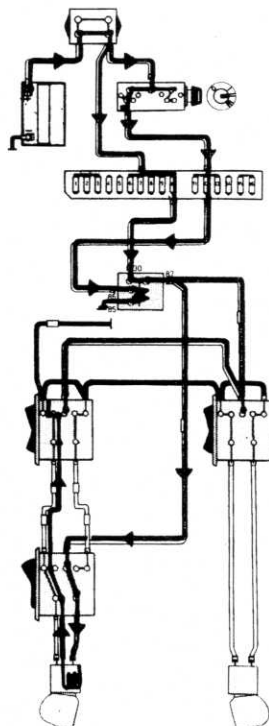
Fuse No. 10:
Window lifts

Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

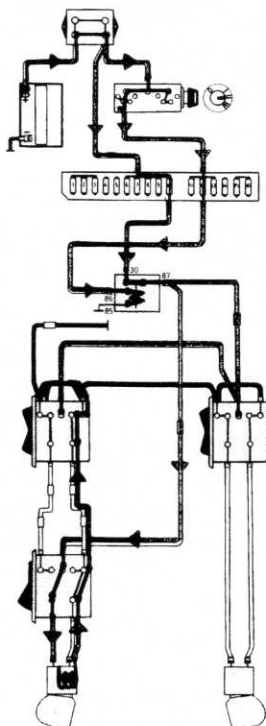
Legend:

- A Window lift motor, left side door
- B Ignition switch
- C Window lift motor, right side door
- D Fuse box
- E Switch for left side window, on left side door
- F Switch for right side window, on left side door
- G Switch for right side window, on right side door
- H Relay

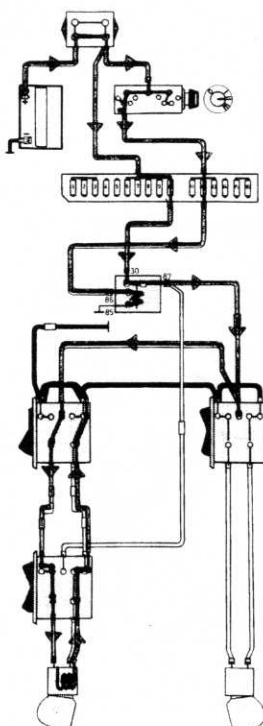
Closing right side window with switch on right side door



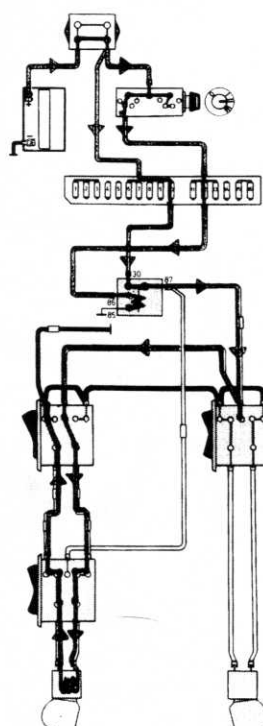
Opening right side window with switch on right side door

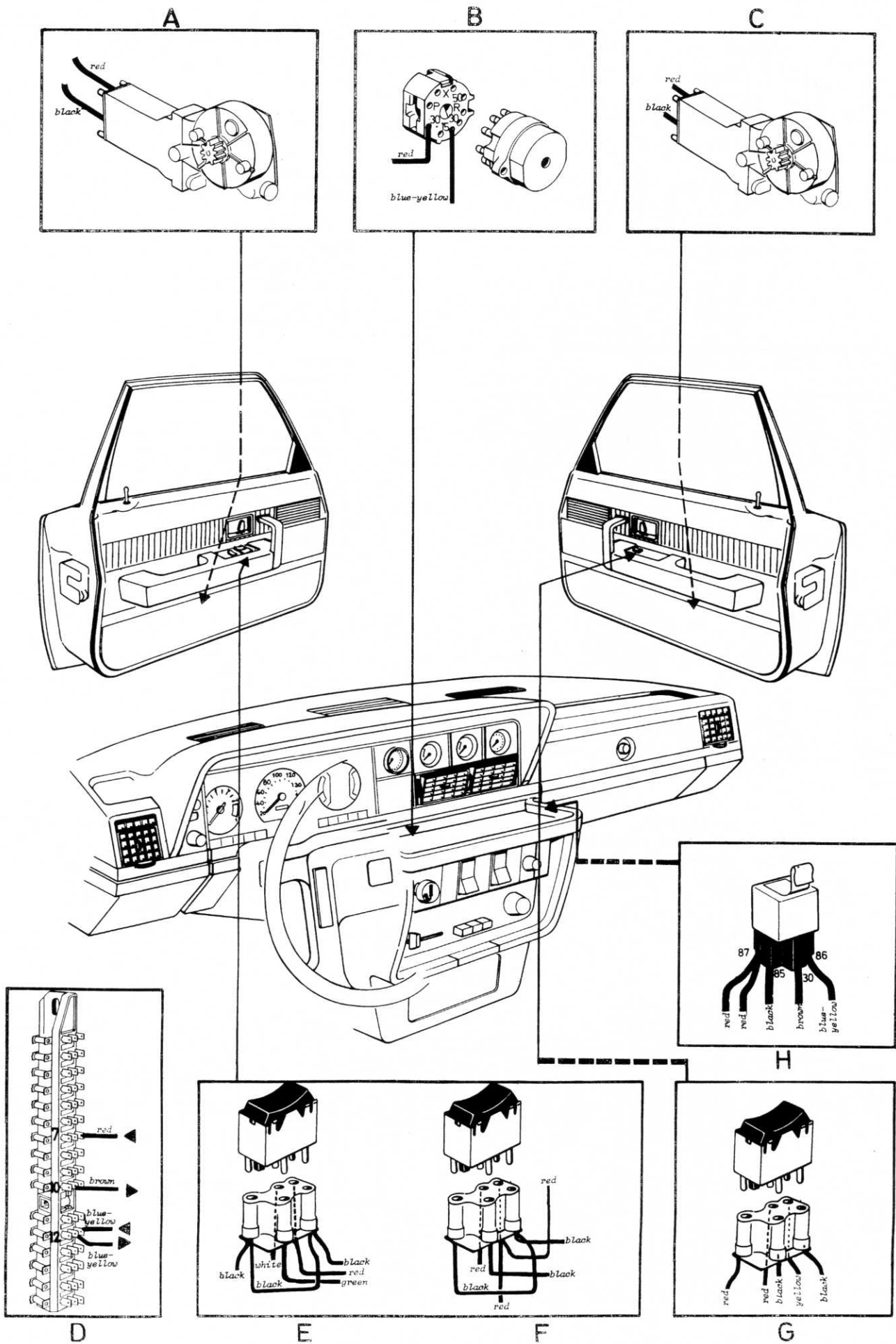


Opening right side window with switch on left side door

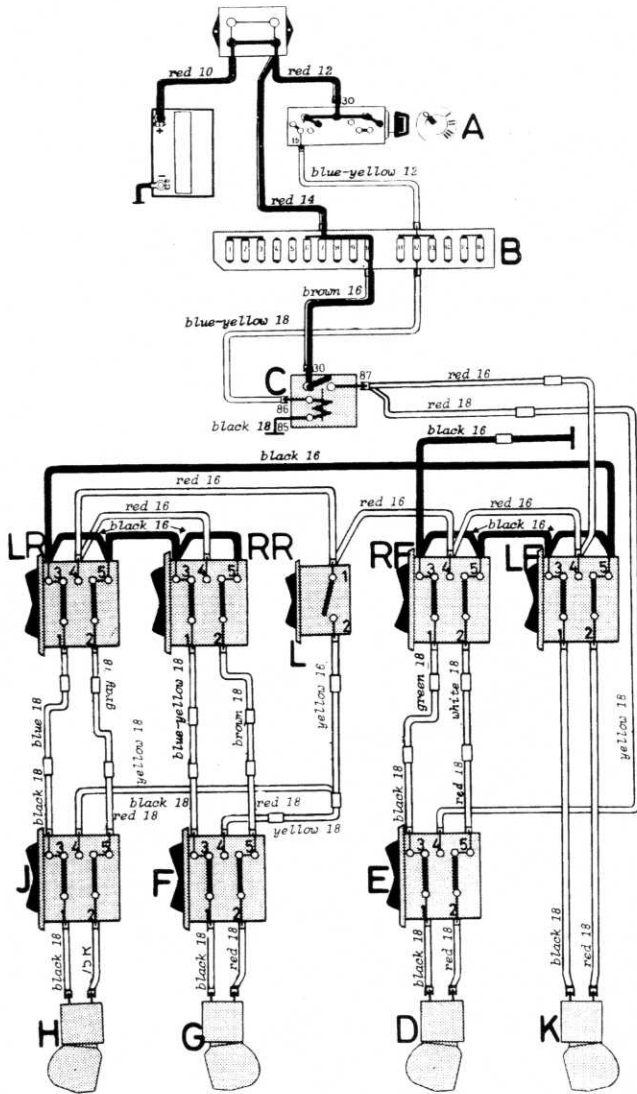


Closing right side window with switch on left side door





Window lifts, 4-door

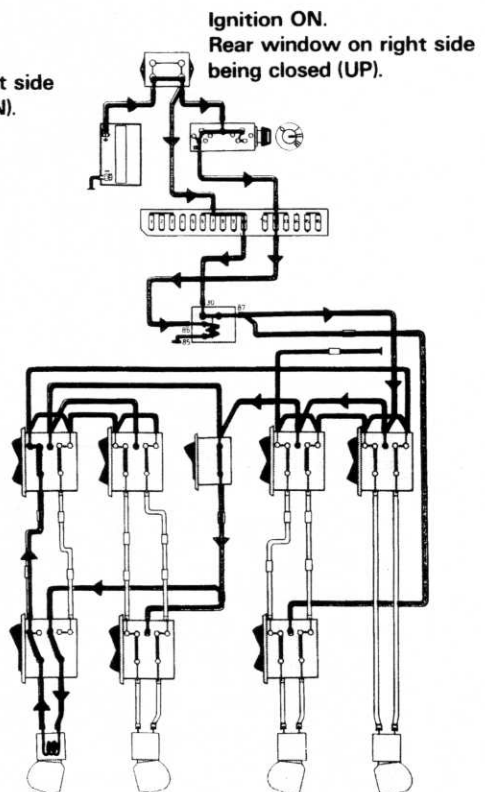
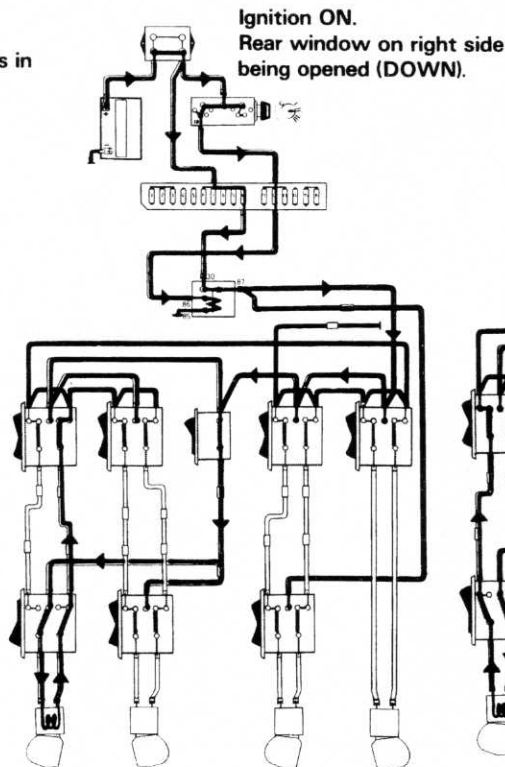
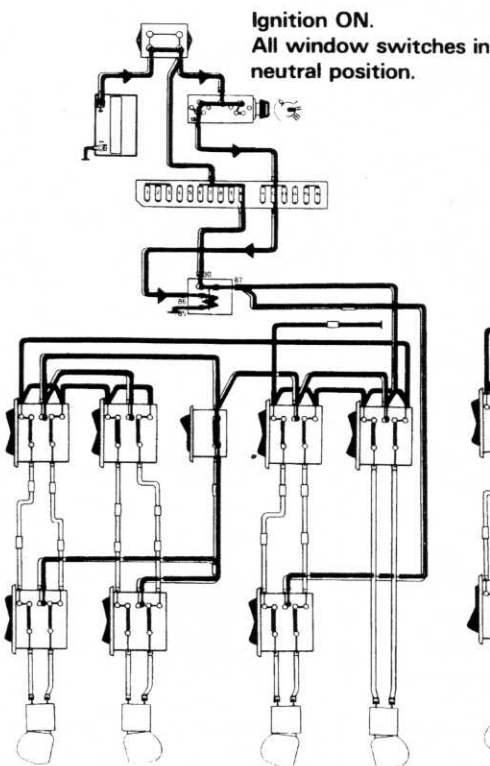


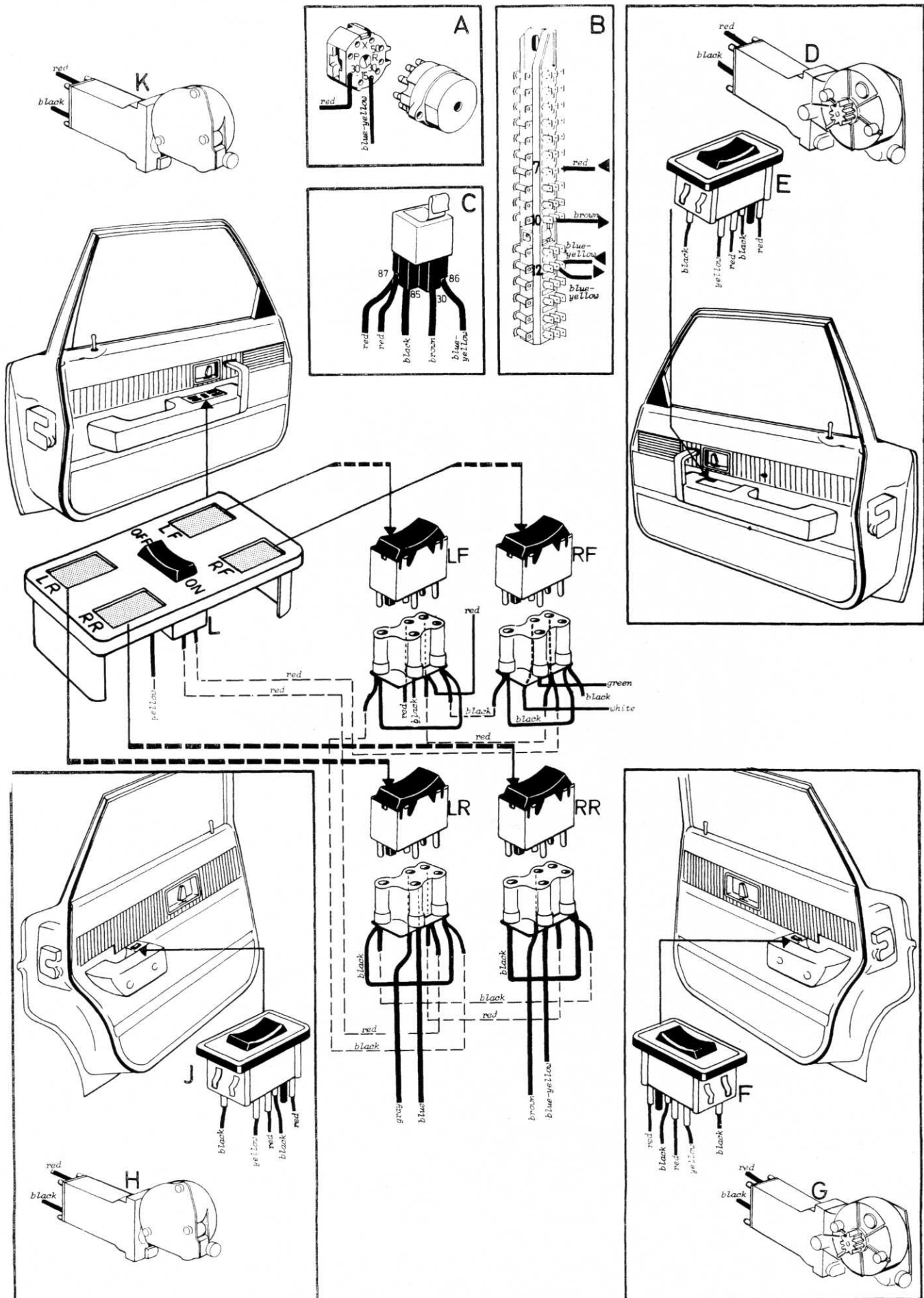
Fuse No. 10:
Window lifts

Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

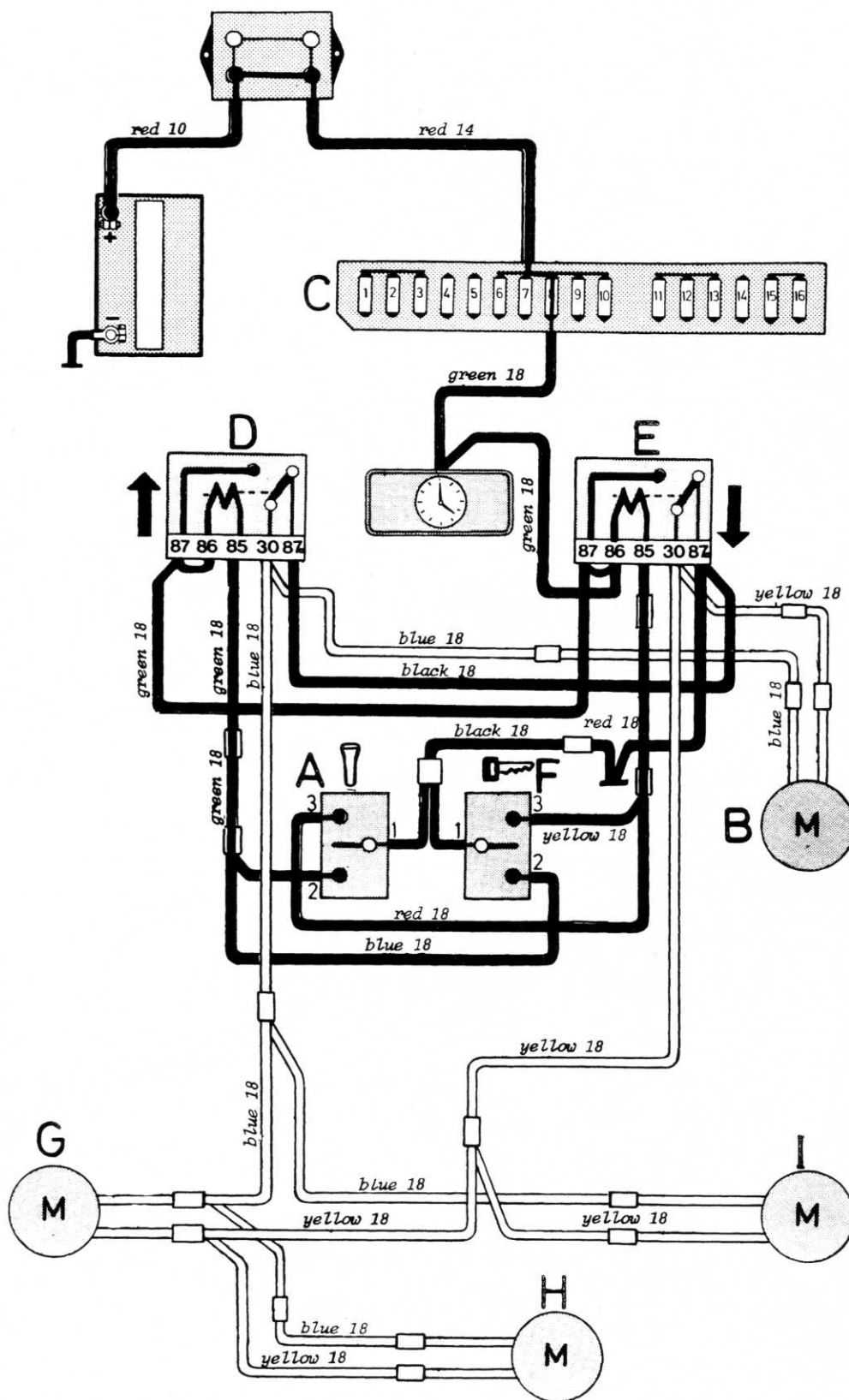
Legend:

- A Ignition switch
- B Fuse box
- C Relay
- D Window lift motor, right front
- E Switch for right front window
- F Switch for right rear window
- G Window lift motor, right rear
- H Window lift motor, left rear
- J Switch for left rear window
- K Window lift motor, left front
- L Main switch for rear door windows





Central lock, 4/5-door

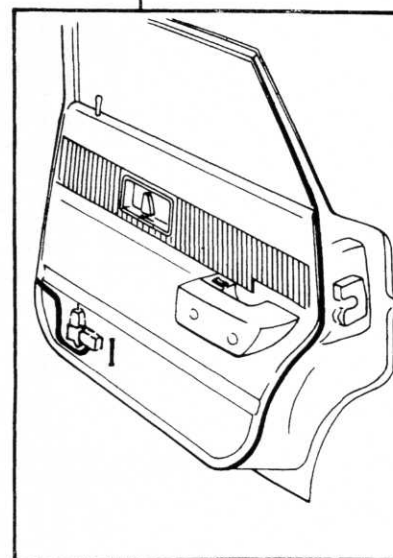
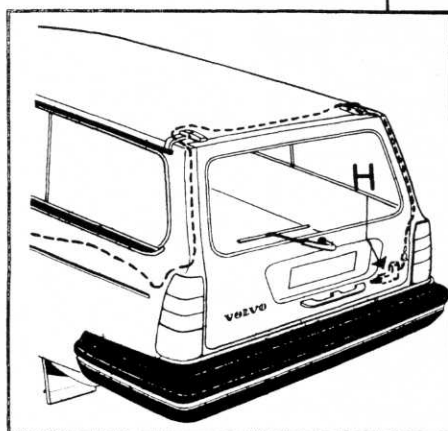
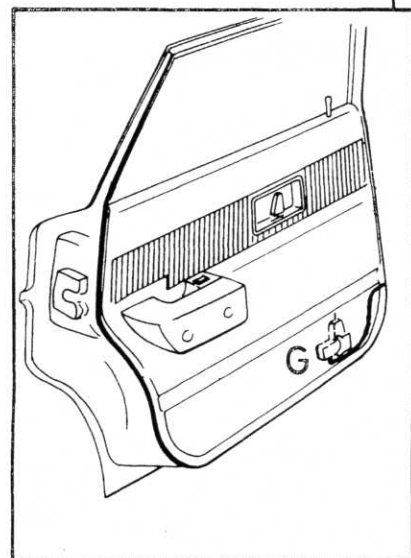
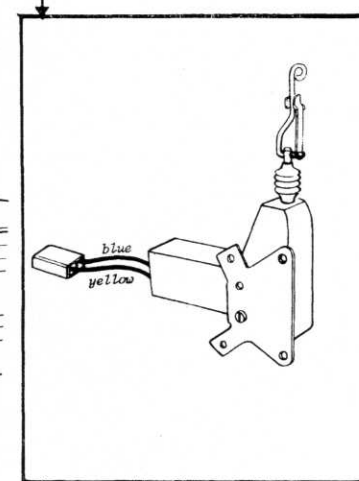
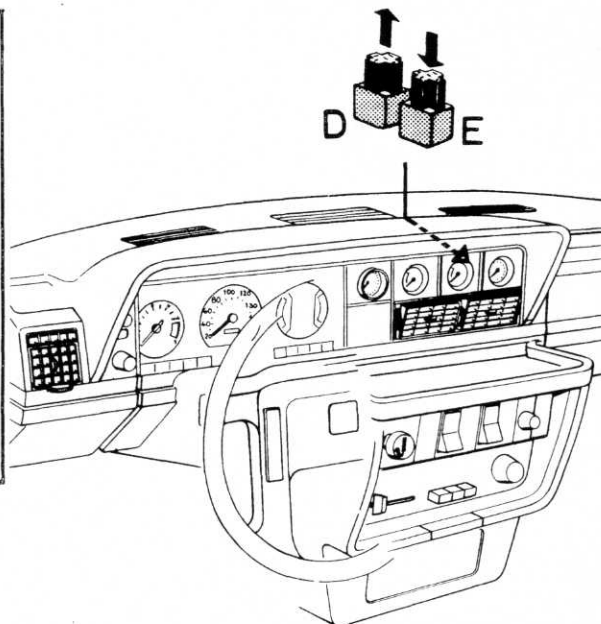
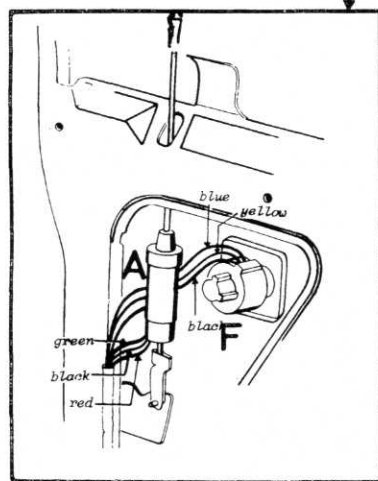
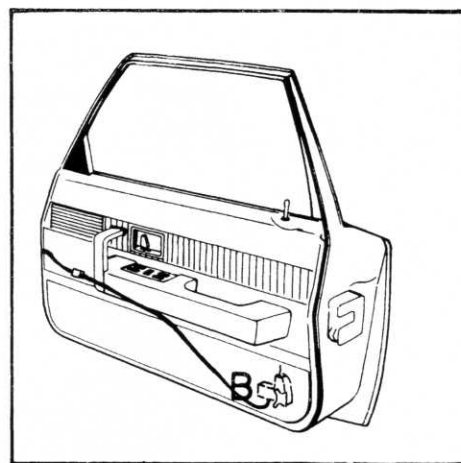
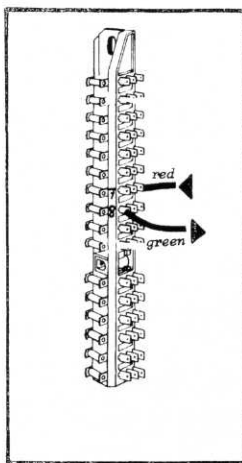
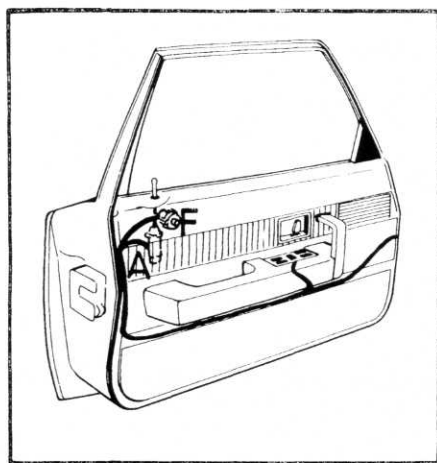


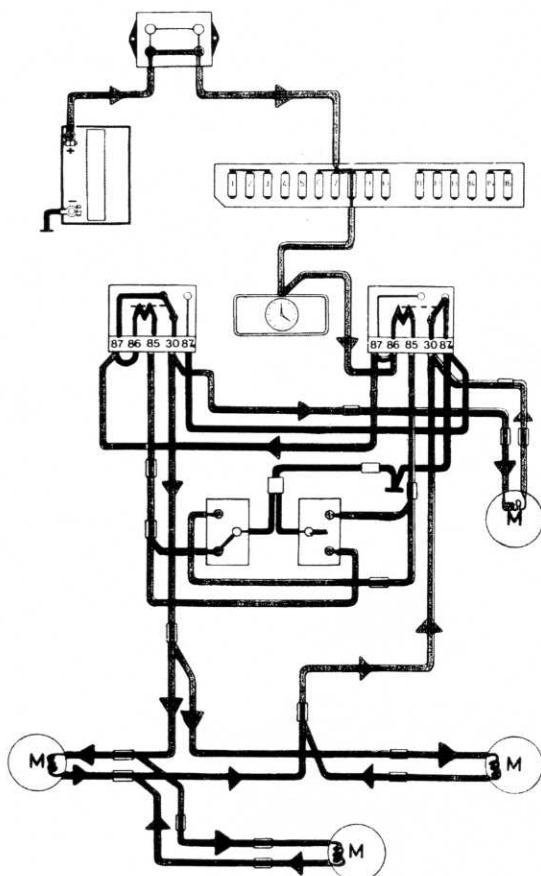
Fuse No. 8:

Interior light
Glove box light
Trunk light
Engine compartment light
Clock
Central lock
Power antenna

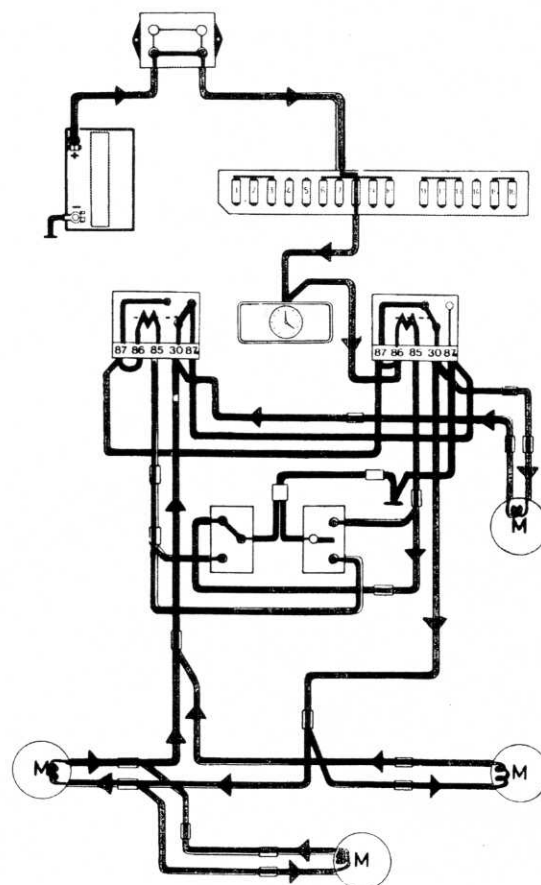
Legend:

A Door switch
B Lock motor, right front
C Fuse box
D Relay to unlock
E Relay to lock
F Key switch
G Lock motor, left rear
H Lock motor, tail gate door (wagon)
I Lock motor, right rear

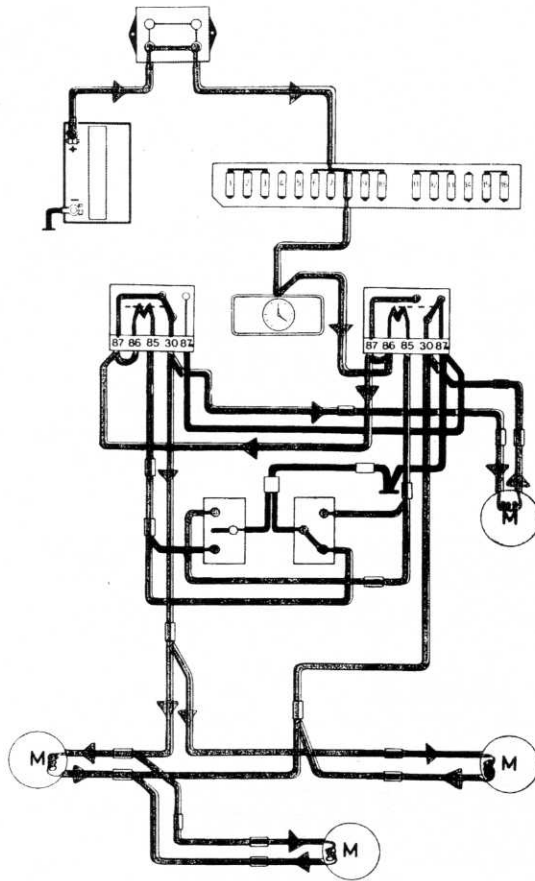




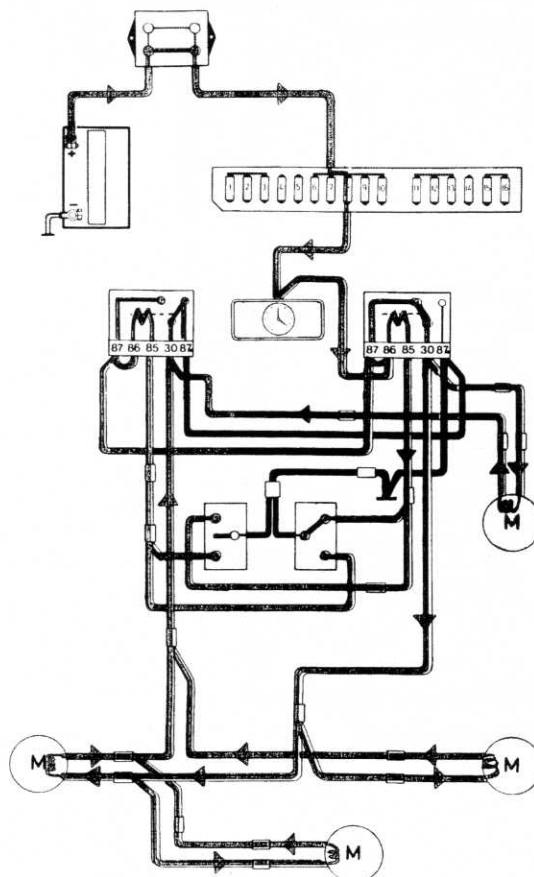
Using lock button to unlock



Using lock button to lock



Using key to unlock



Using key to lock

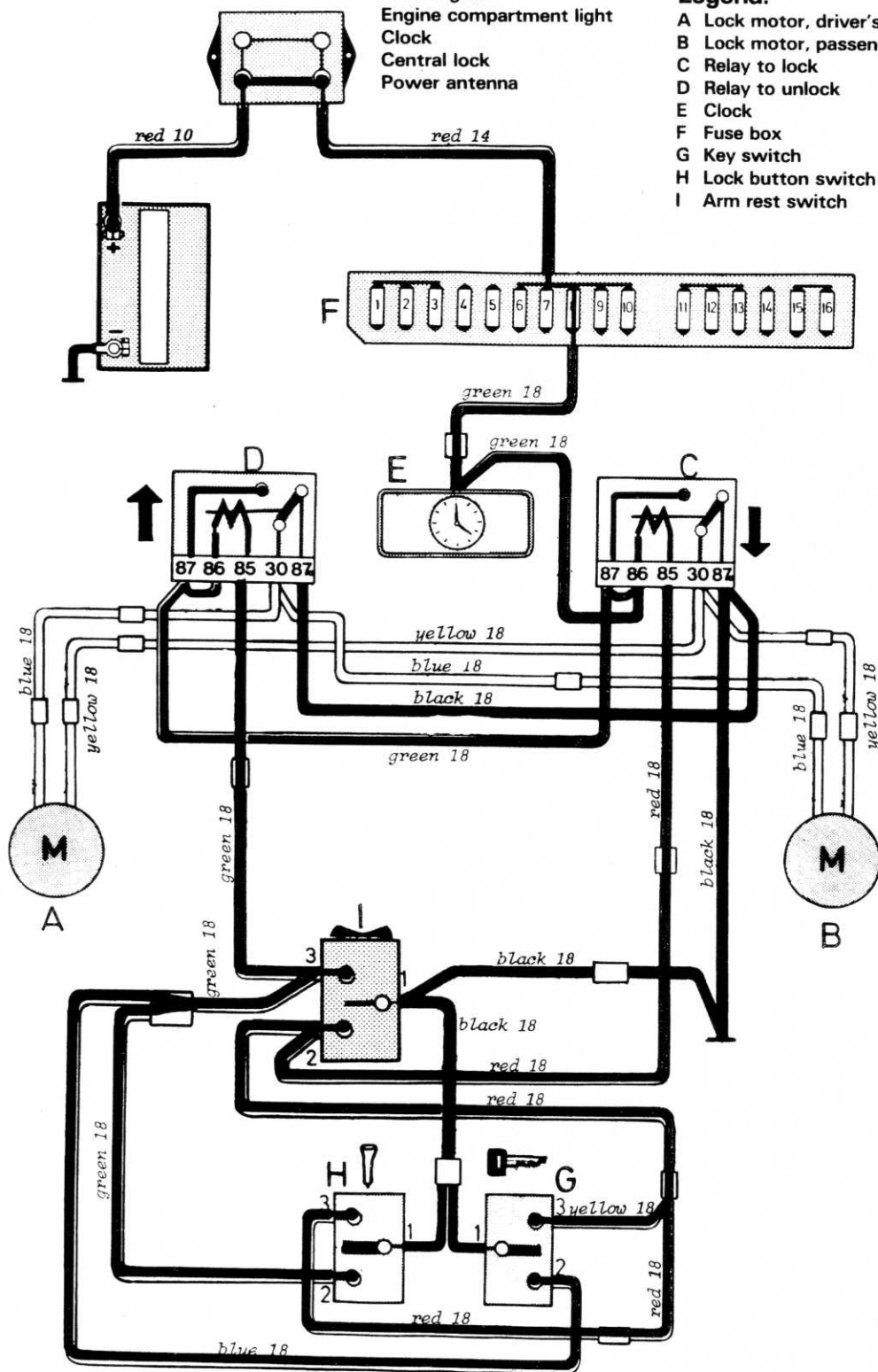
Central lock, Coupe

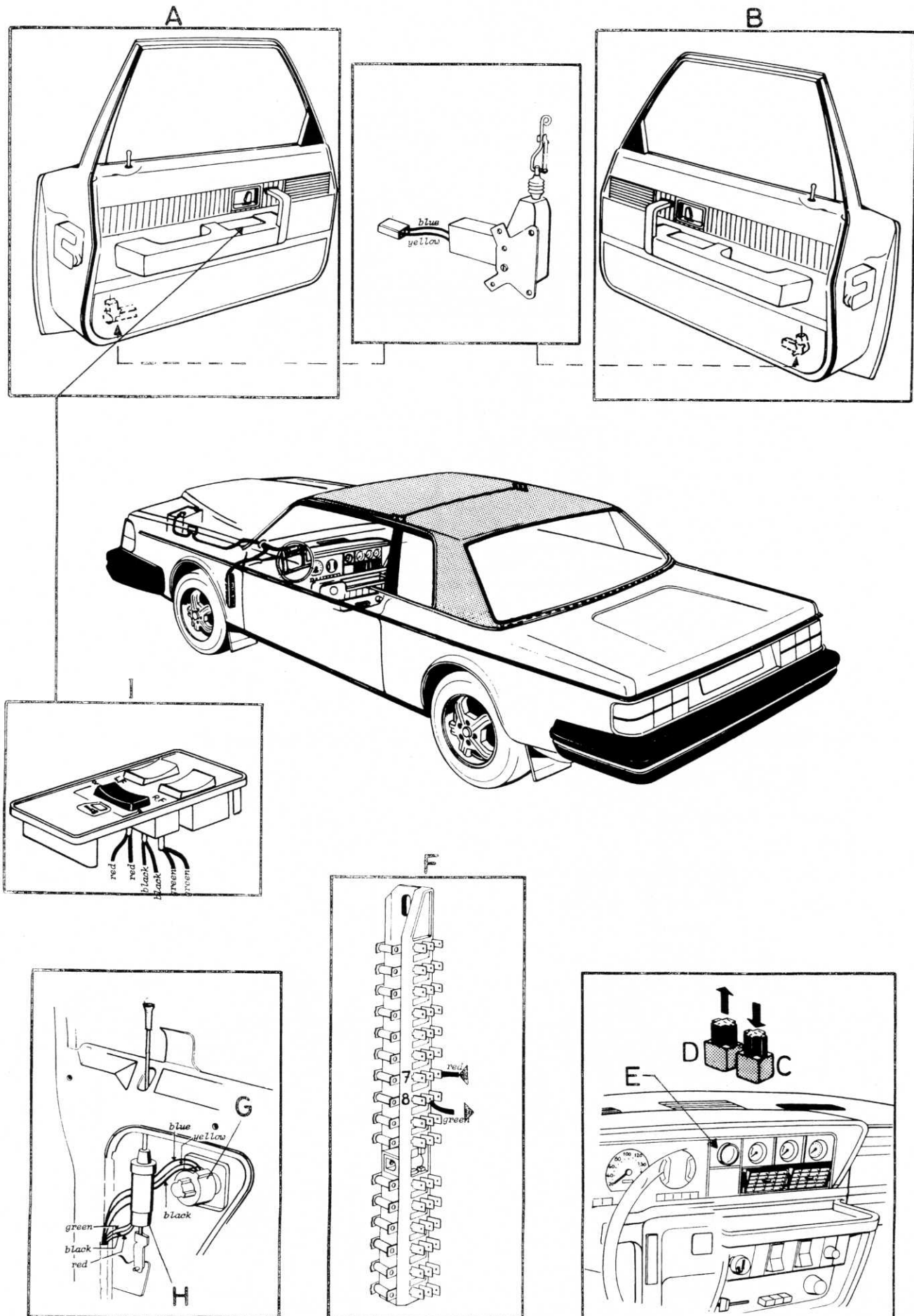
Fuse No. 8:

Interior light
Glove box light
Trunk light
Engine compartment light
Clock
Central lock
Power antenna

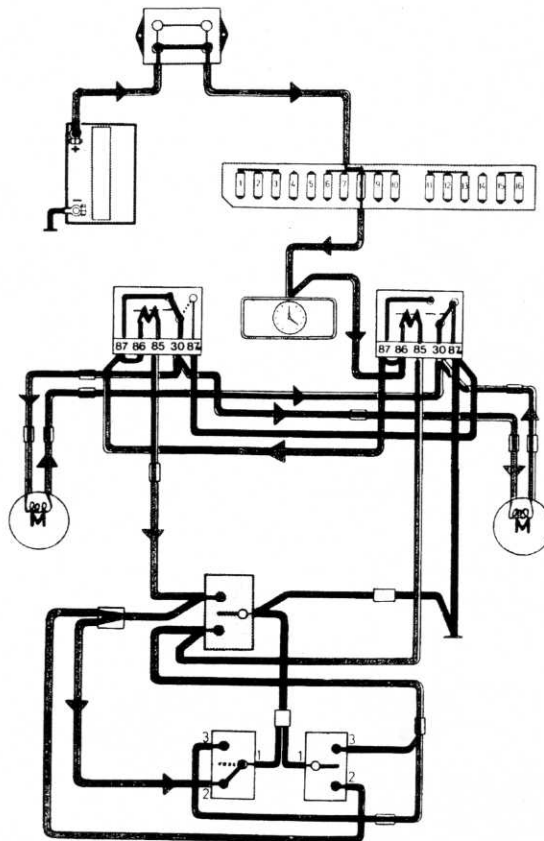
Legend:

- A Lock motor, driver's door
- B Lock motor, passenger side
- C Relay to lock
- D Relay to unlock
- E Clock
- F Fuse box
- G Key switch
- H Lock button switch
- I Arm rest switch

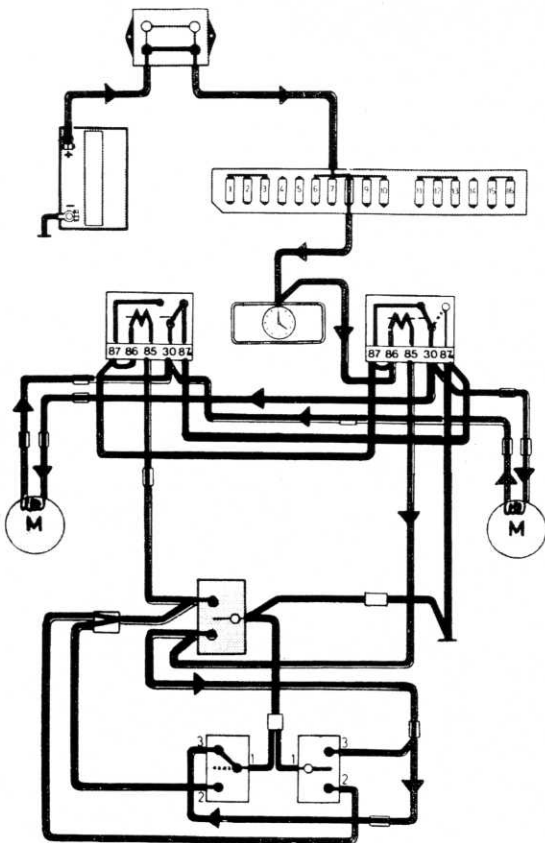




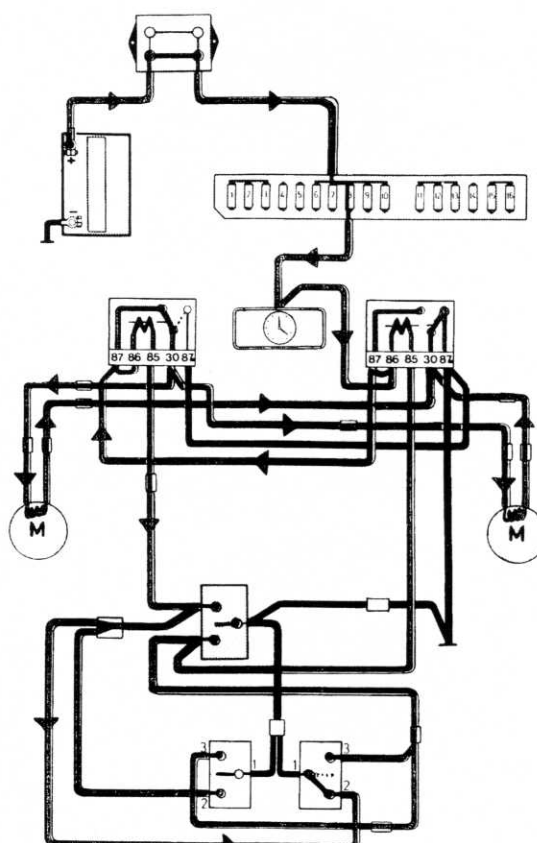
Using lock button to unlock



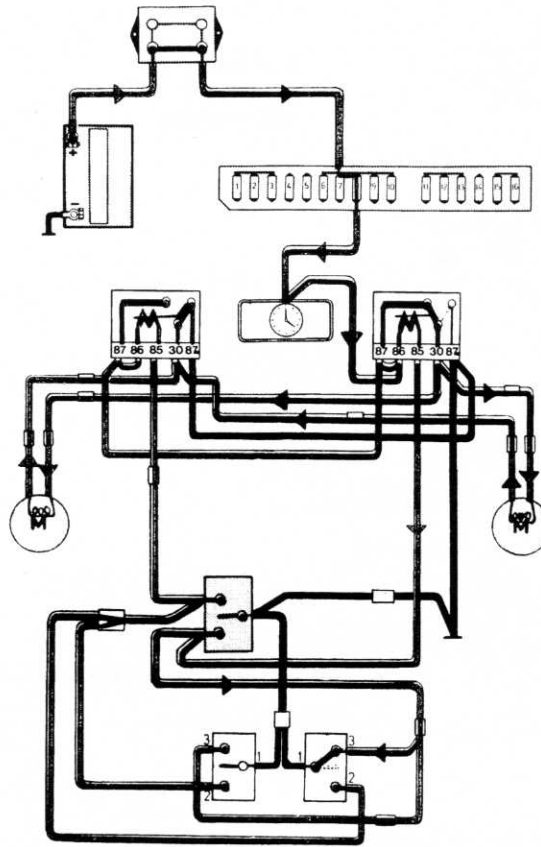
Using lock button to lock



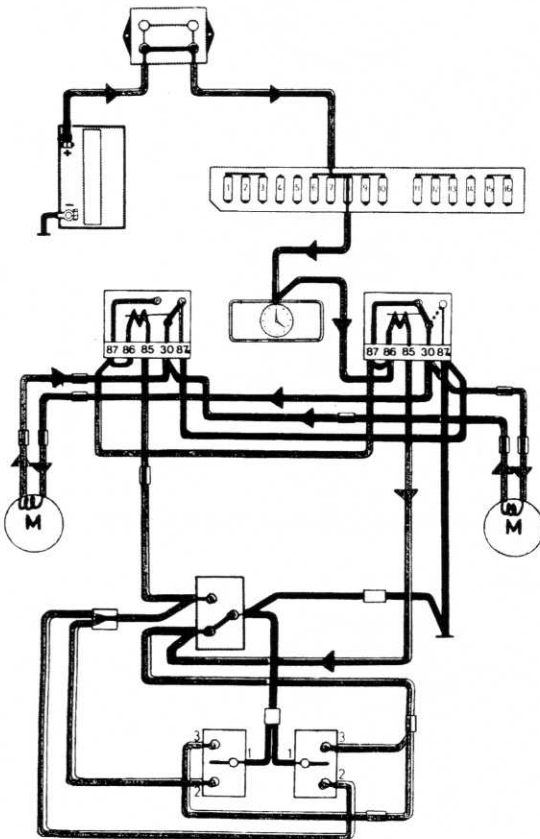
Using key to unlock



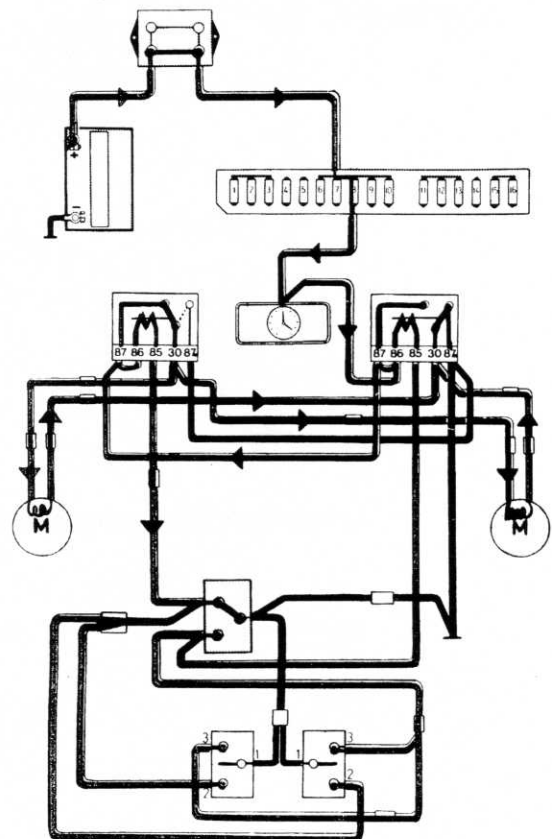
Using key to lock



Using arm rest switch to lock



Using arm rest switch to unlock



Cruise control

Fuse No. 1:

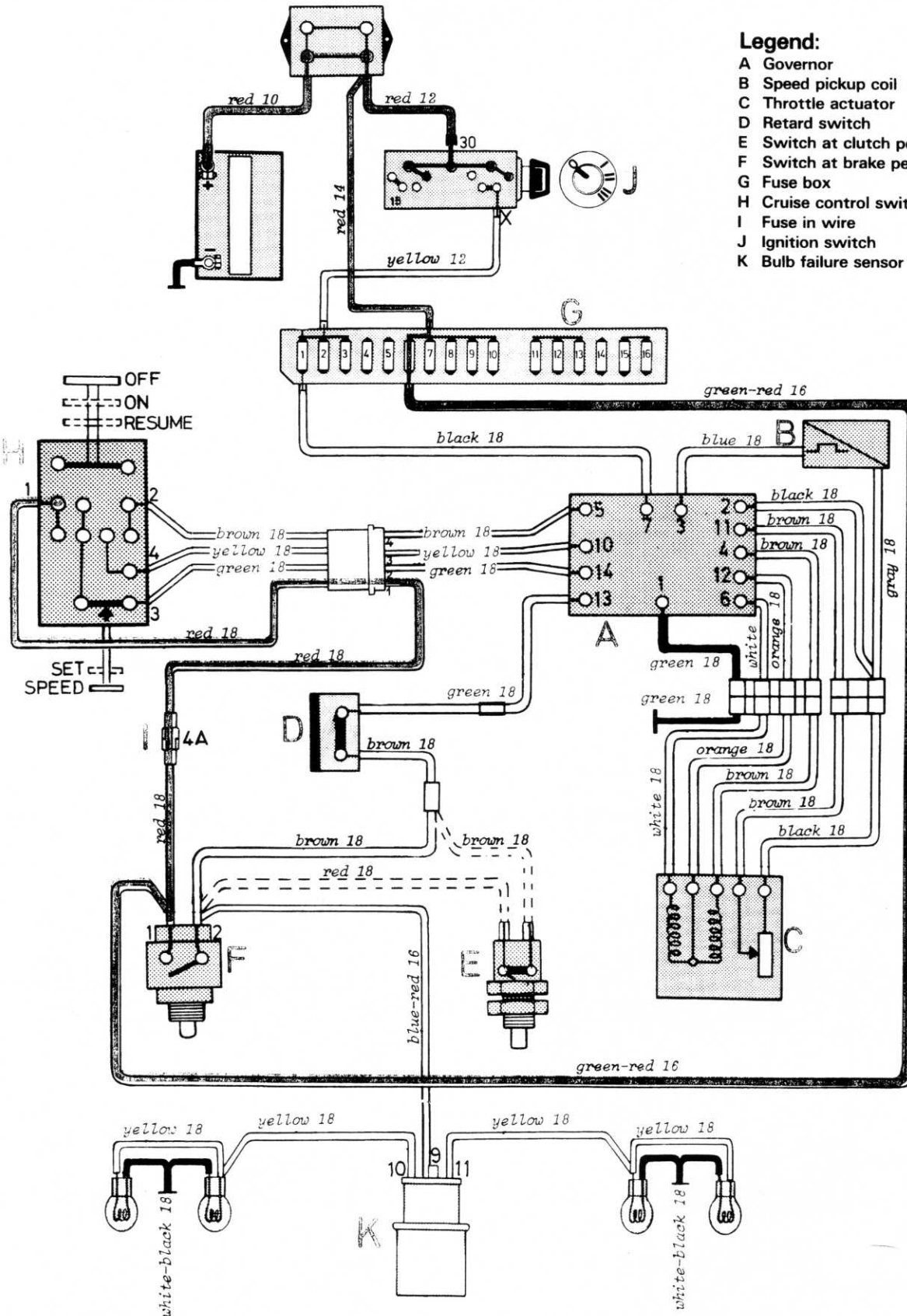
Cigarette lighter
Tail gate window wiper and washer
Electrically operated side mirrors
Radio (and power antenna)
Cruise control

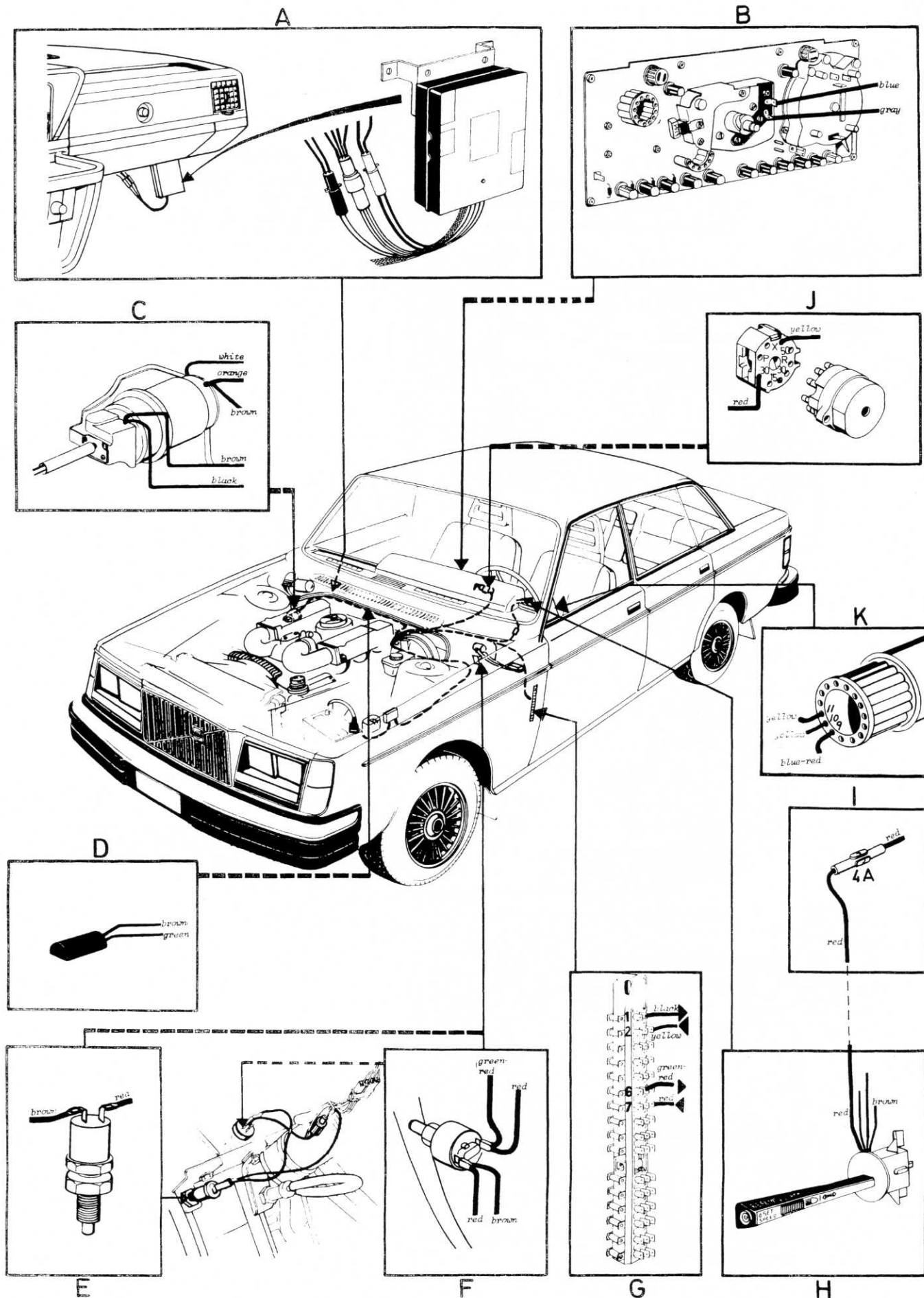
Fuse No. 6:

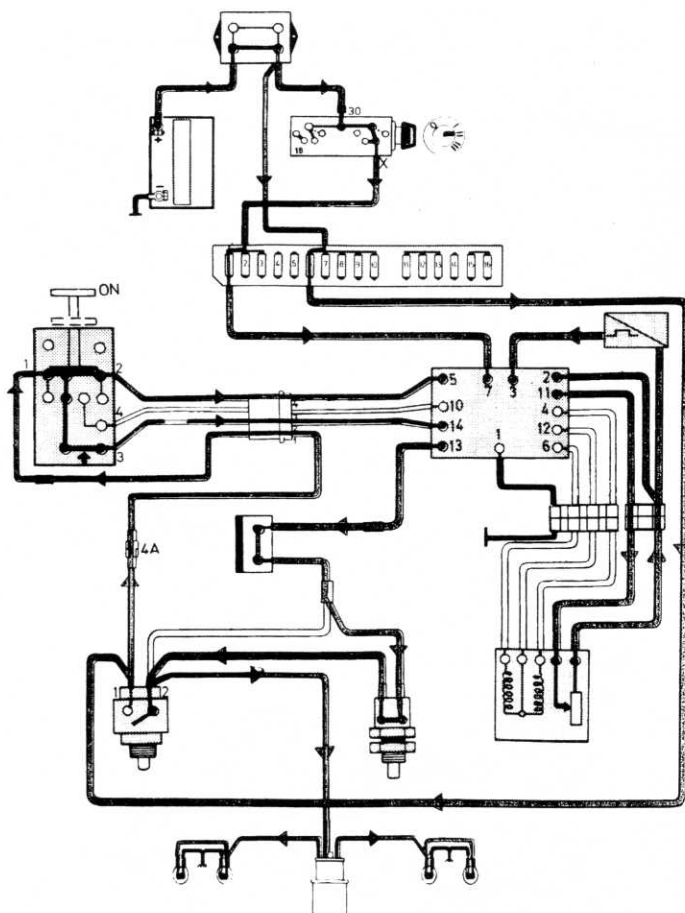
Brake light
Cruise control

Legend:

- A Governor
- B Speed pickup coil
- C Throttle actuator
- D Retard switch
- E Switch at clutch pedal
- F Switch at brake pedal
- G Fuse box
- H Cruise control switch
- I Fuse in wire
- J Ignition switch
- K Bulb failure sensor



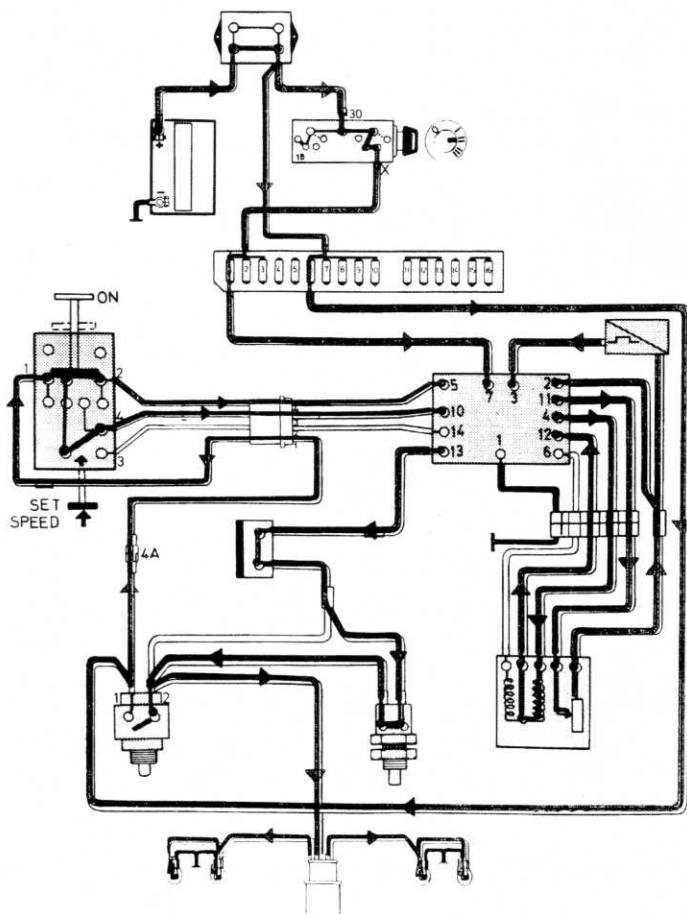




Set speed

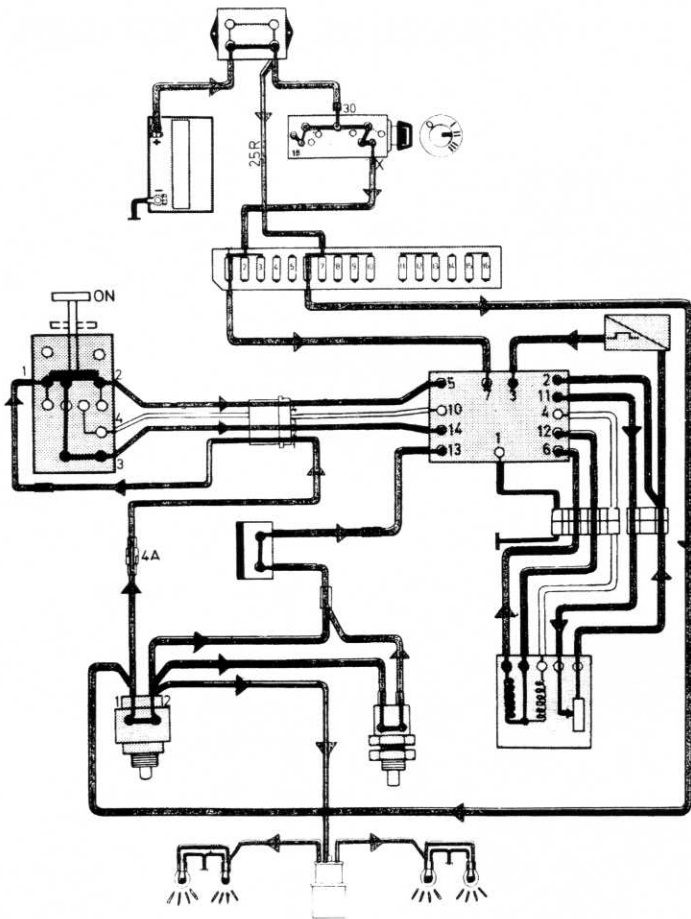
Switch position ON and SET
SPEED button depressed.

Relay and vacuum valve in throttle actuator
grounded through brake light bulbs. Current is too
small to illuminate brake lights.



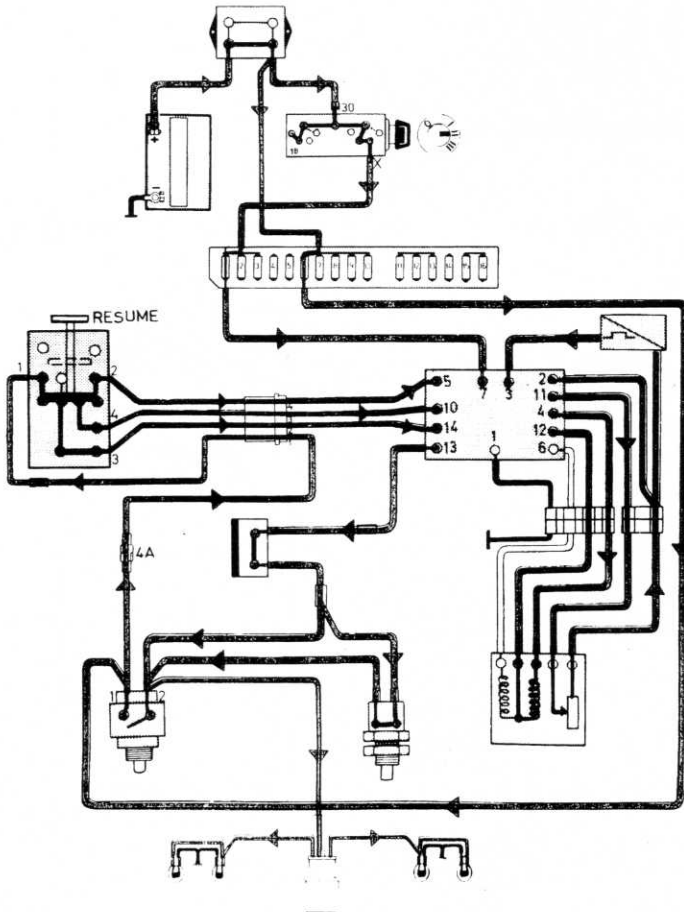
ON

Self-holding relay in throttle actuator receives
current from governor terminal 2 (provided speed is
higher than 35 mph and brake and clutch not enga-
ged).



Cruise control disengaged

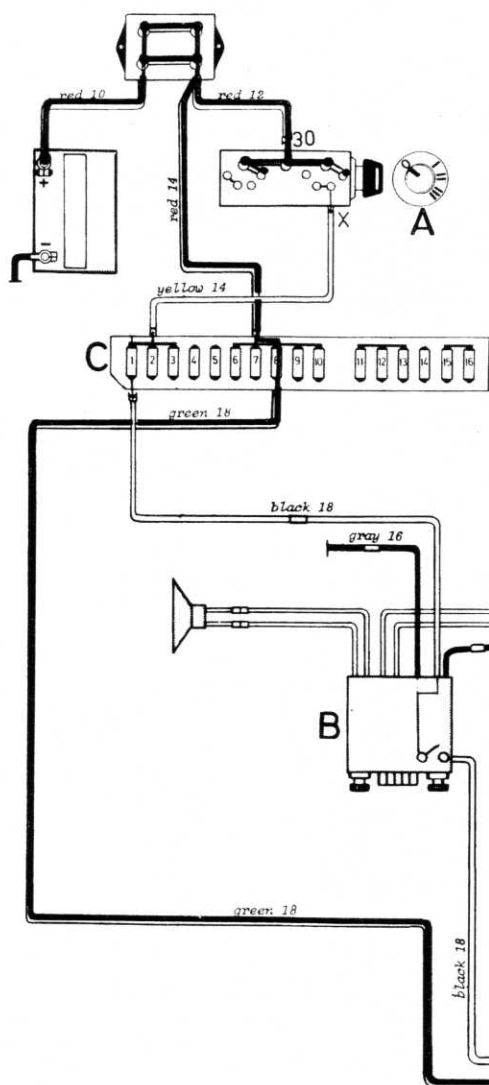
If brake pedal switch is engaged, self-holding relay in throttle actuator will be disengaged (same voltage on both ends of coil).
In case of heavy braking, also mercury retard switch will disengage.



Resume

Switch to Resume engages memory and previous setting.

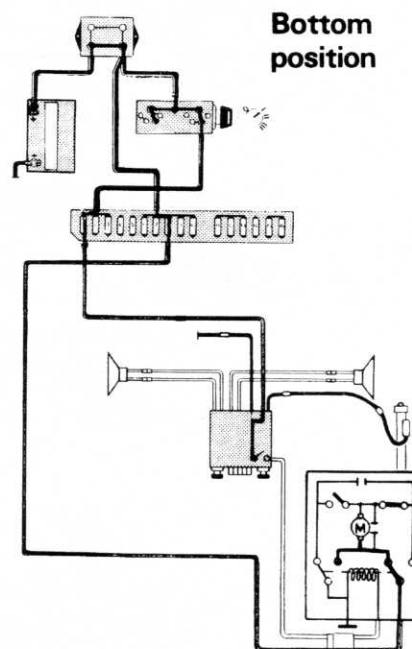
Radio and power antenna



Fuse No. 1:
Cigarette lighter
Tail gate window wiper/washer
Electrically operated side mirrors
Radio

Fuse No. 8
Interior light
Glove box light
Trunk light
Engine compartment light
Clock
Power antenna

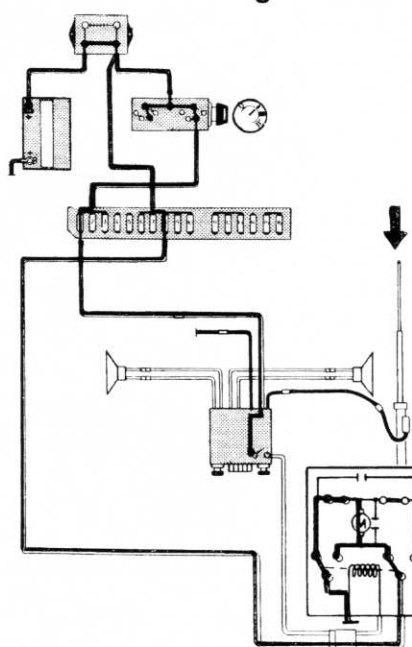
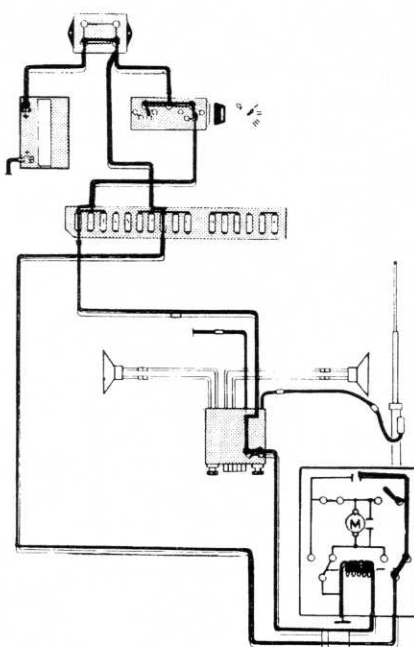
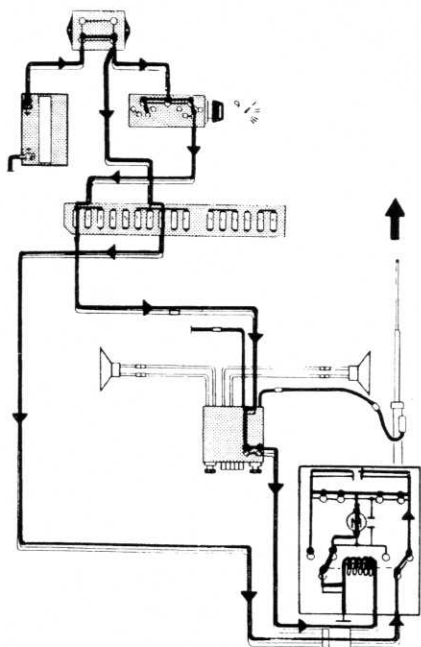
Legend:
A Ignition switch
B Radio
C Fuse box
D Motor, power antenna

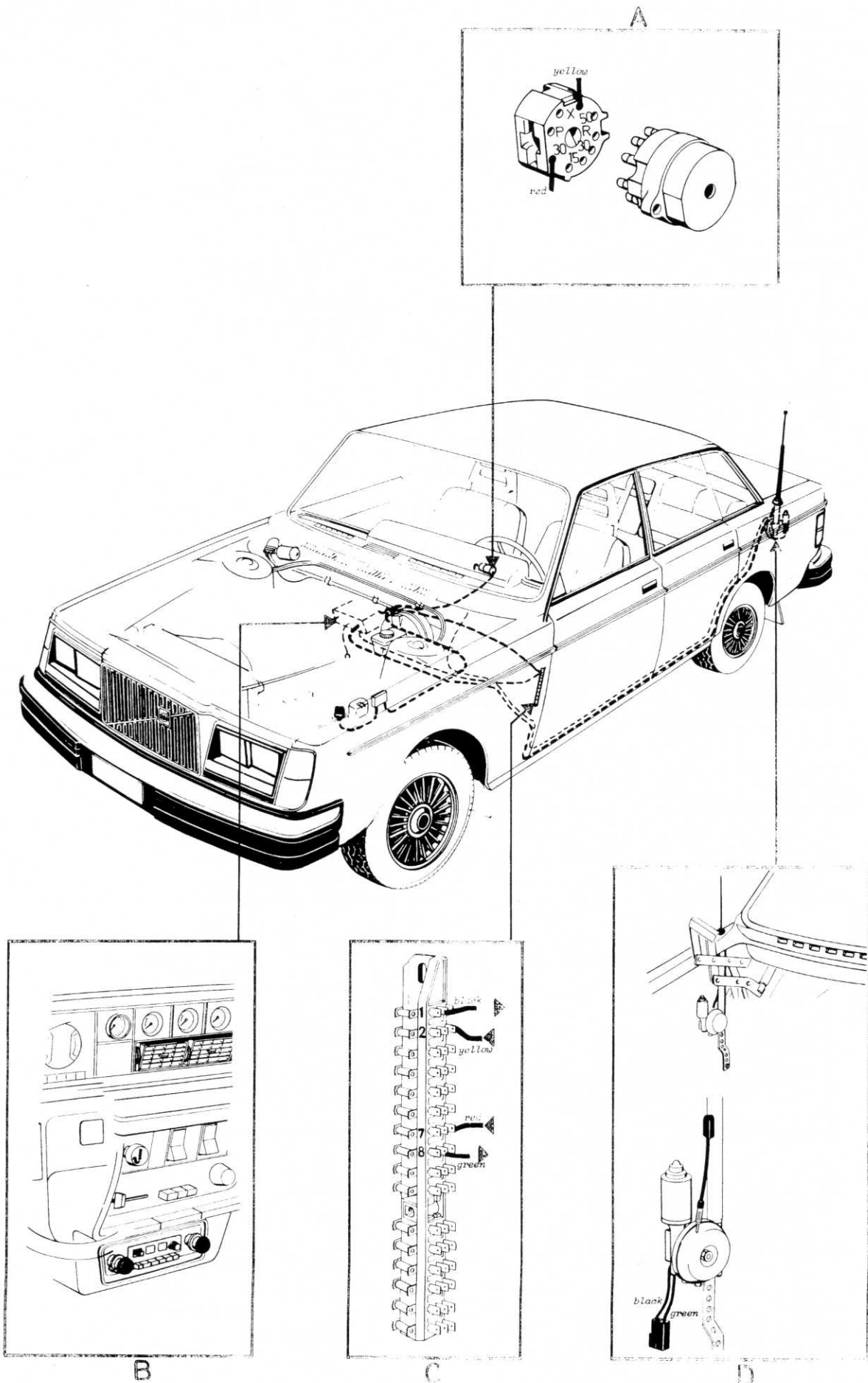


Power antenna being raised

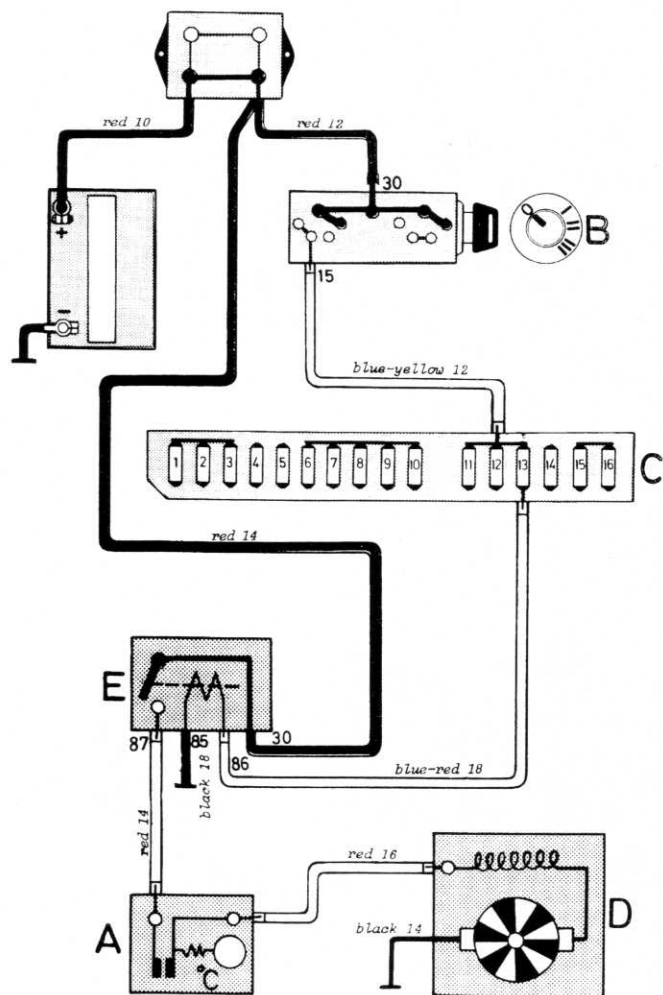
Top position

Power antenna being lowered





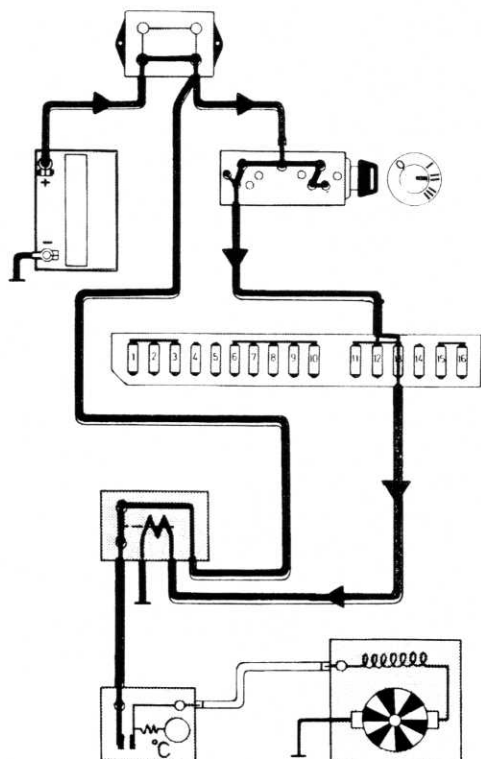
Electric cooling fan



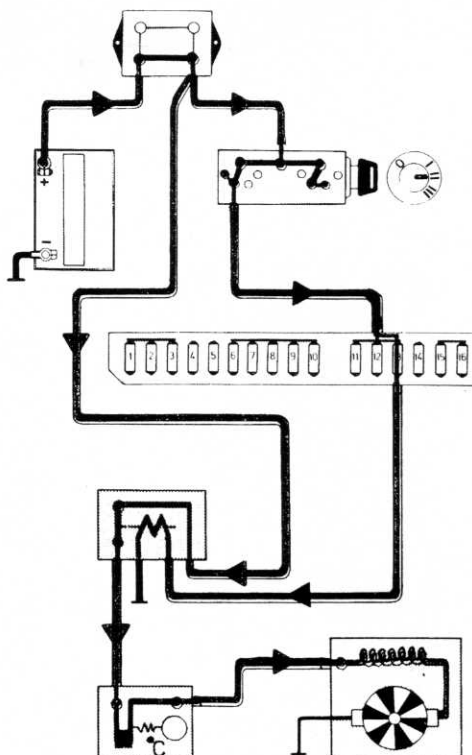
Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)
Electric cooling fan

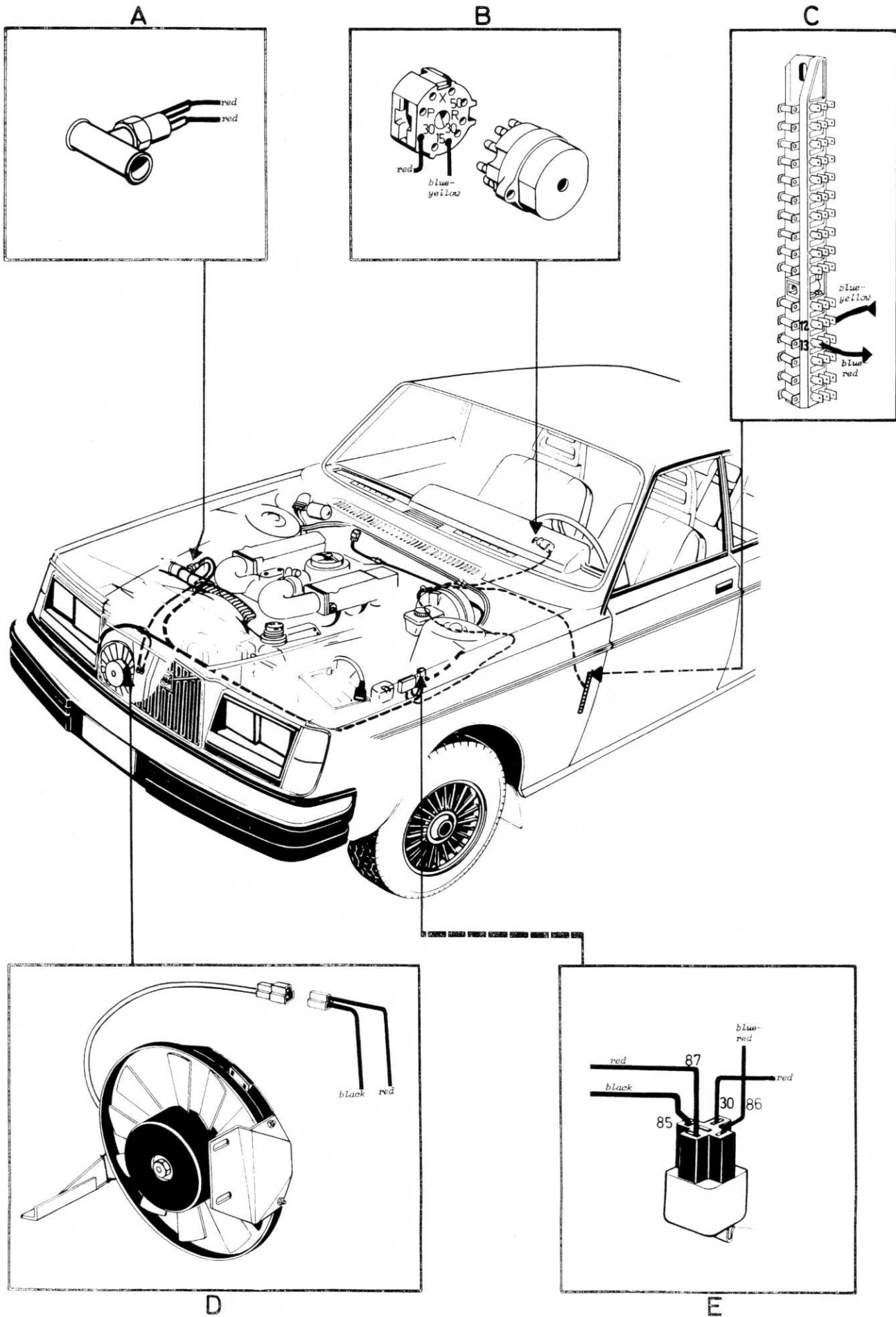
Legend:
A Thermostat switch
B Ignition switch
C Fuse box
D Electric cooling fan
E Relay

Ignition ON.
Thermostat switch OFF.

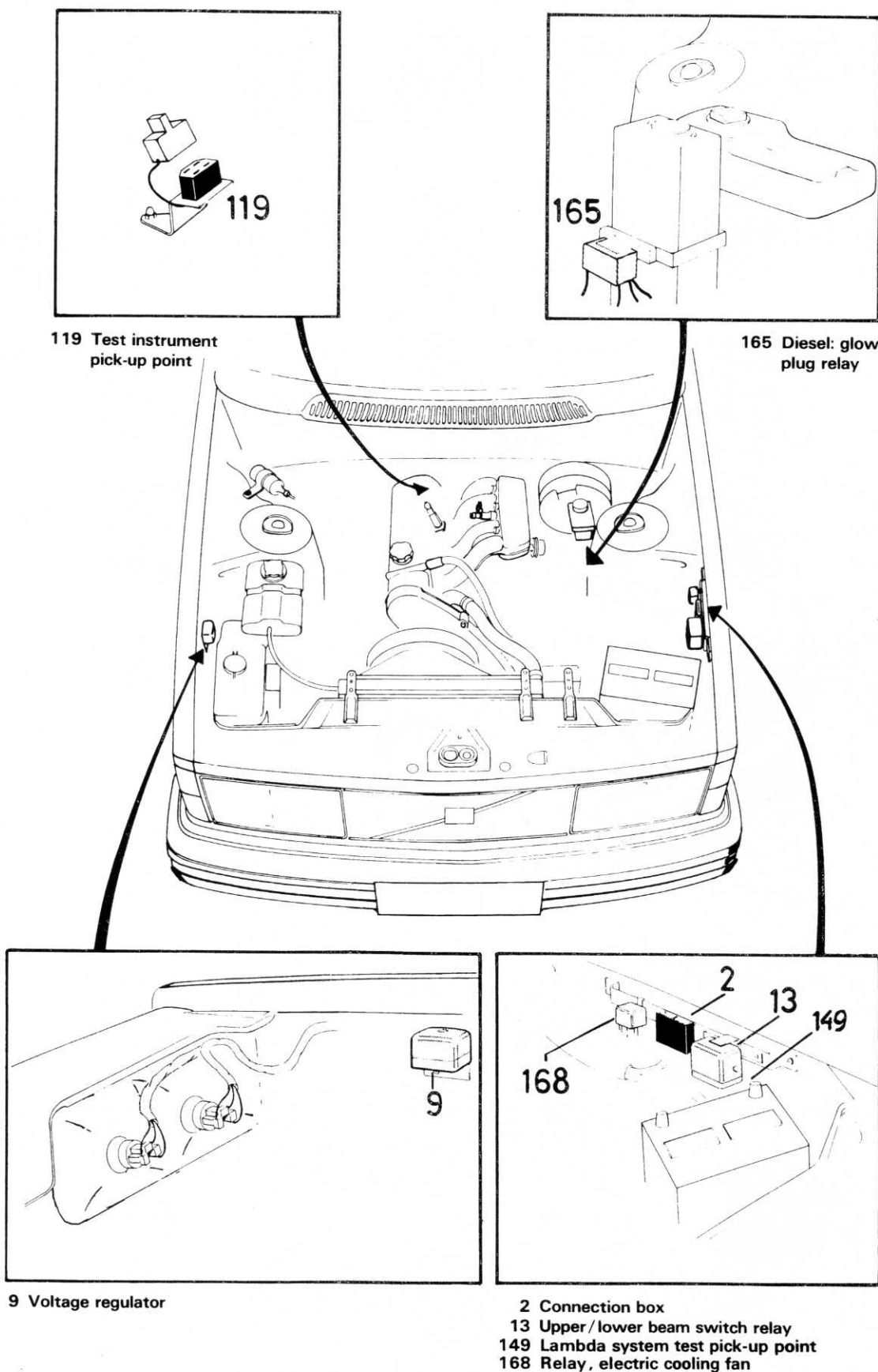


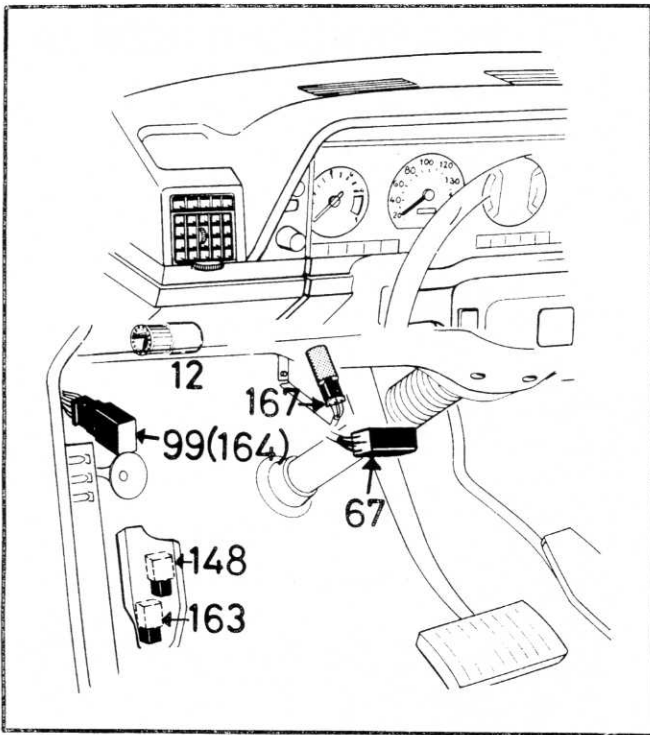
Ignition ON.
Thermostat switch ON.



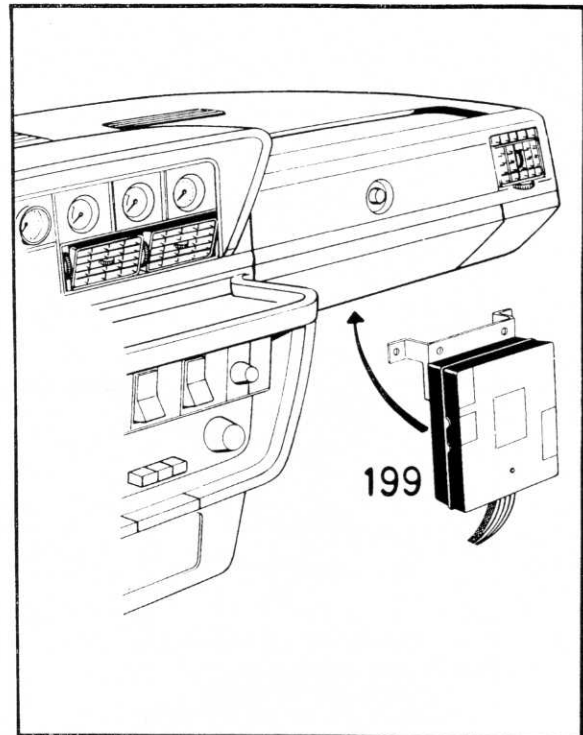


Locations for relays, buzzers, control units, etc

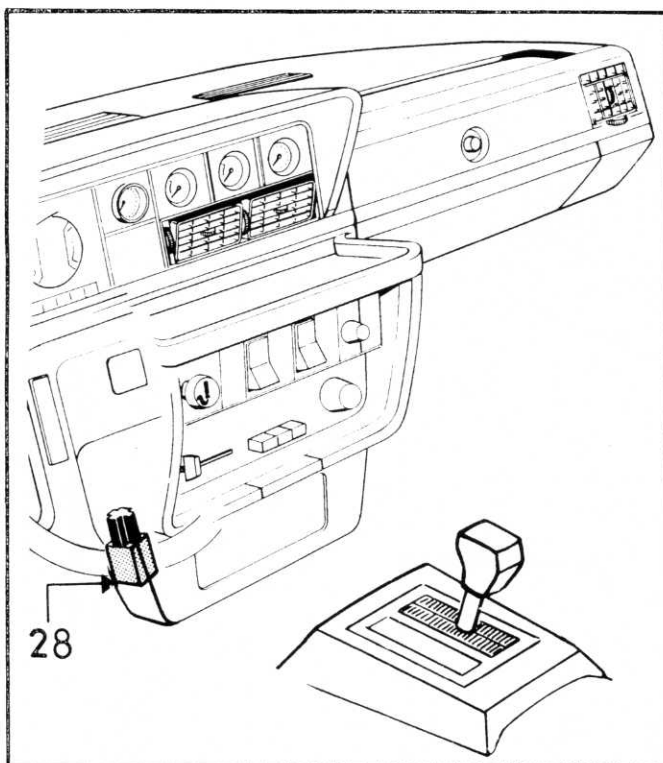




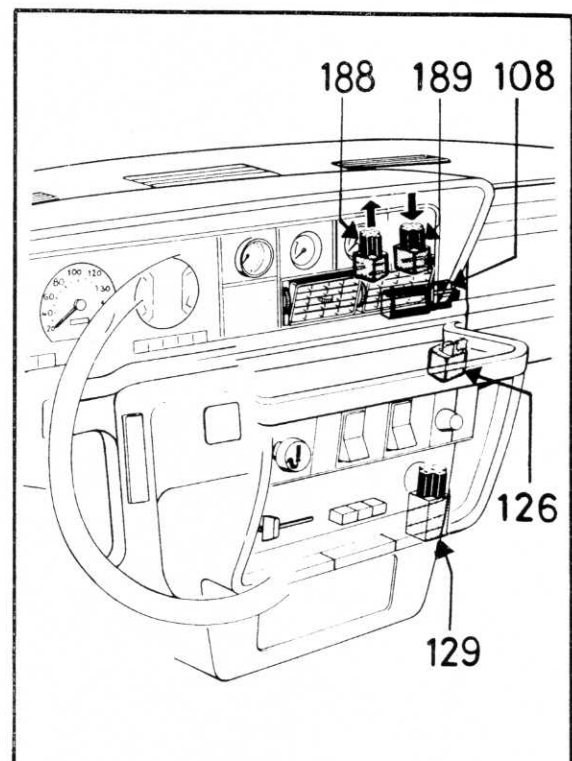
- 12 Bulb failure sensor
- 67 Key and light buzzer
- 99 Relay, fuel pump
- 148 Interval relay, window wipers
- 163 Interval relay, tail gate window wiper
- 164 Diesel, control unit
- 167 Relay, delayed interior light



199 Governor, cruise control

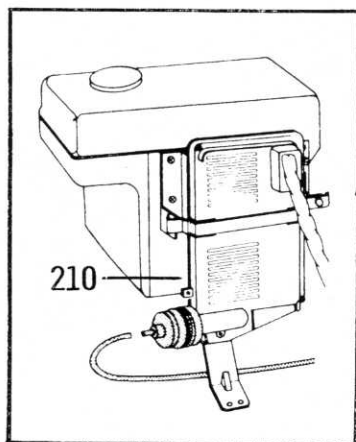


28 Flasher, turn signals

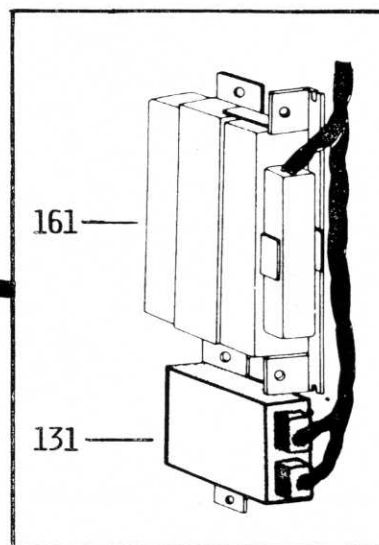
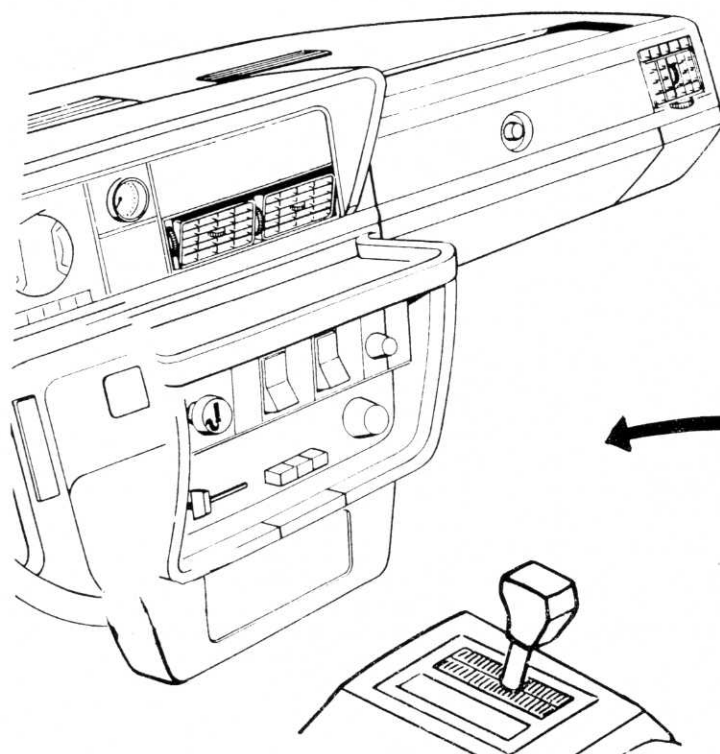
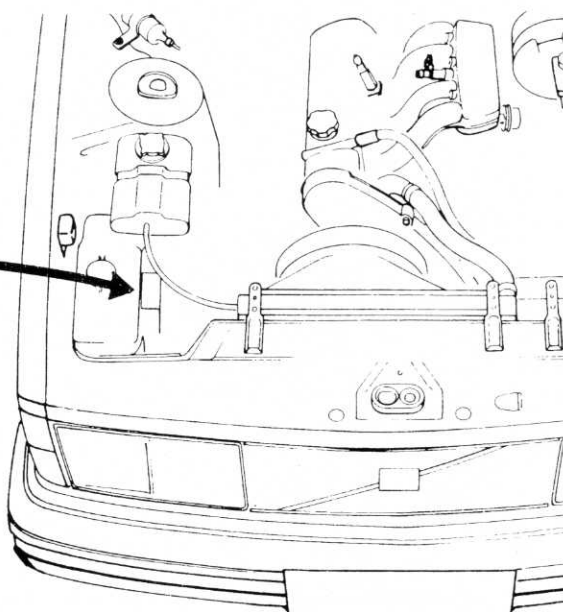


- 108 Relay, overdrive
- 126 Relay, window lifts
- 129 Relay, air conditioning
- 188 Central lock, unlock relay
- 189 Central lock, lock relay

Electronic control units

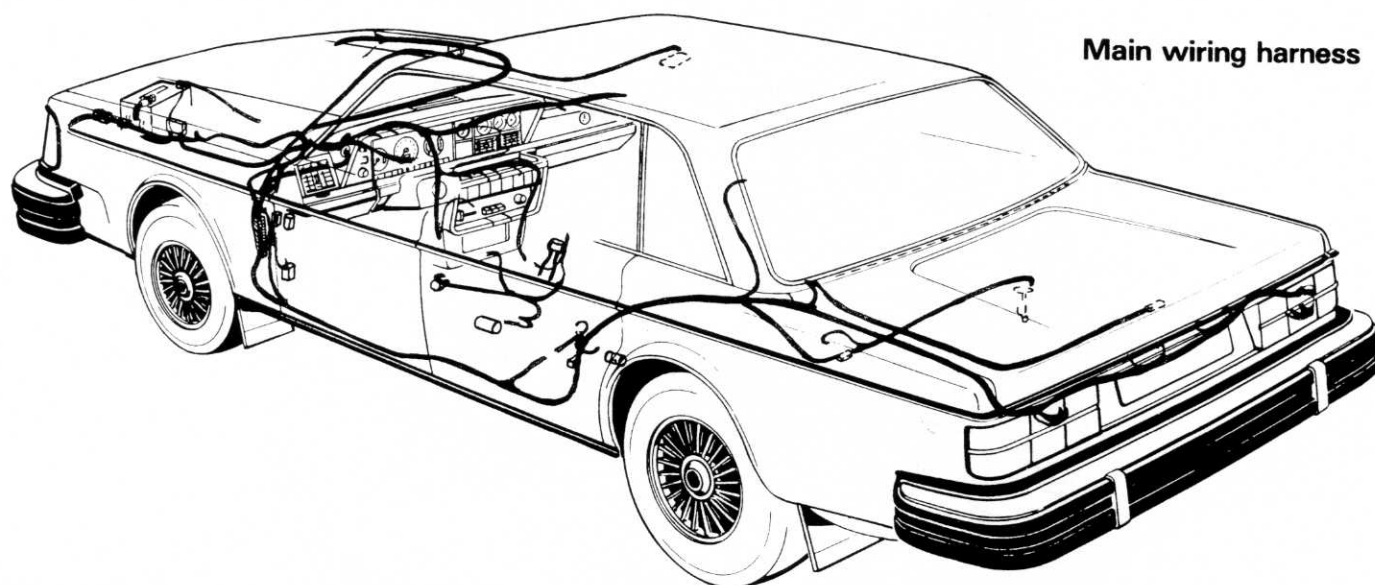


210 Electronic control unit
for Computer Controlled
Ignition System (B21F-MPG)

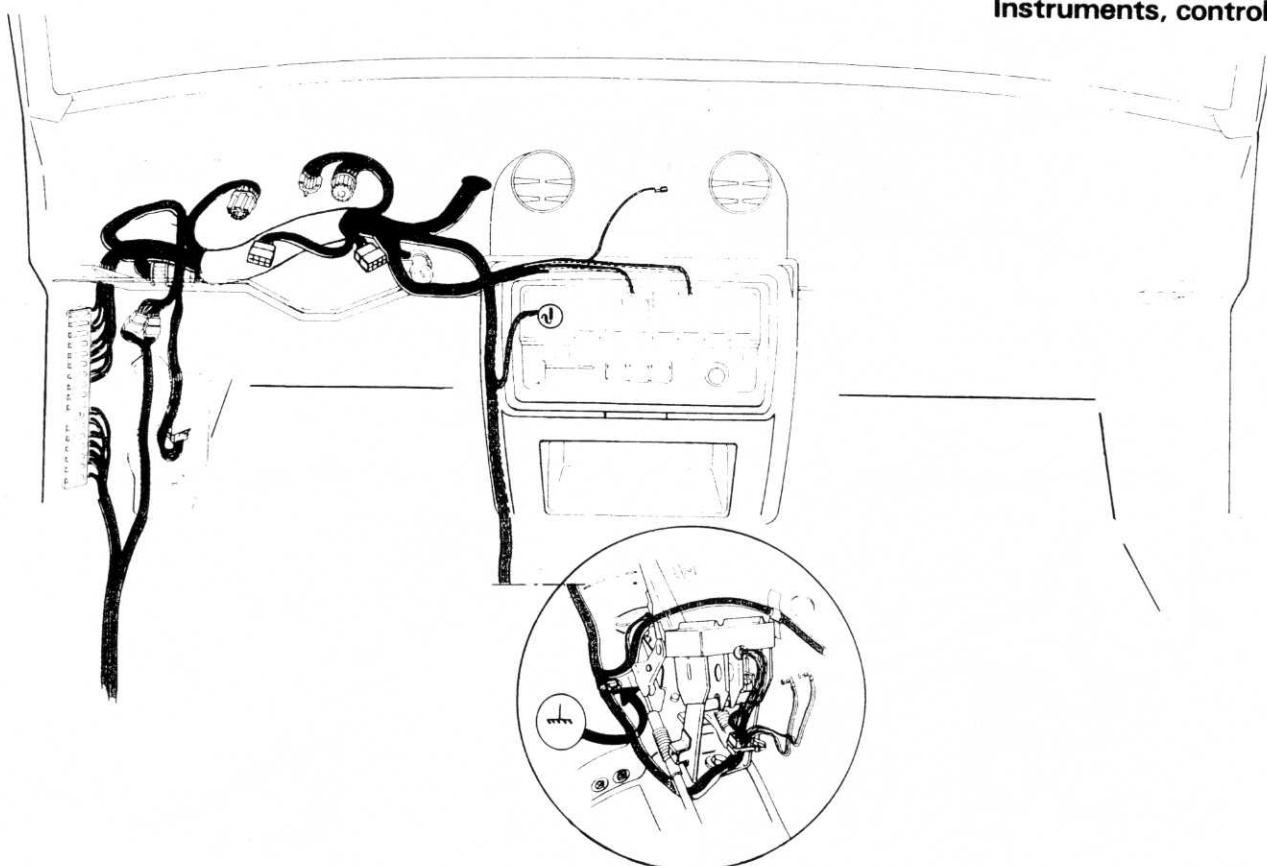


131 Electronic control unit
for Lambda-sond system
161 Electronic control unit
for Constant Idle Speed
(CIS) system

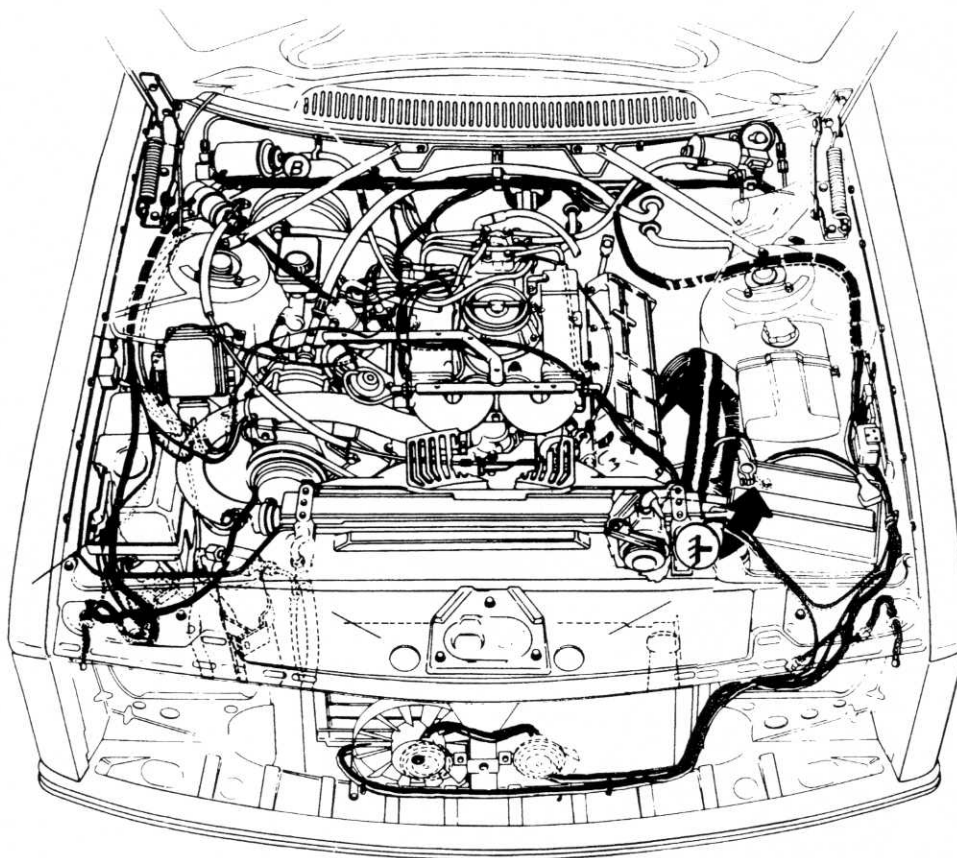
Wiring harnesses



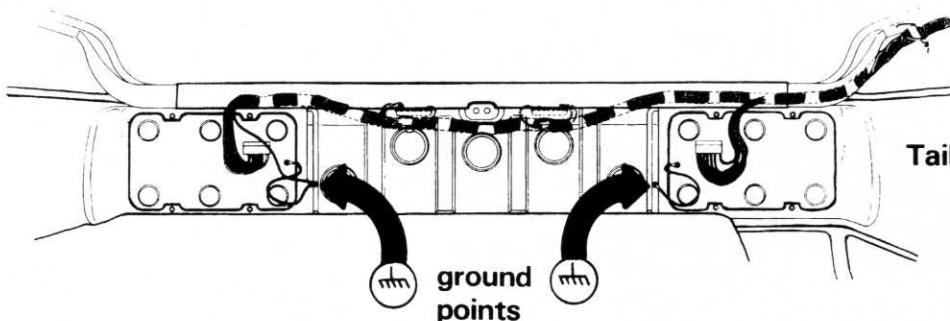
Main wiring harness



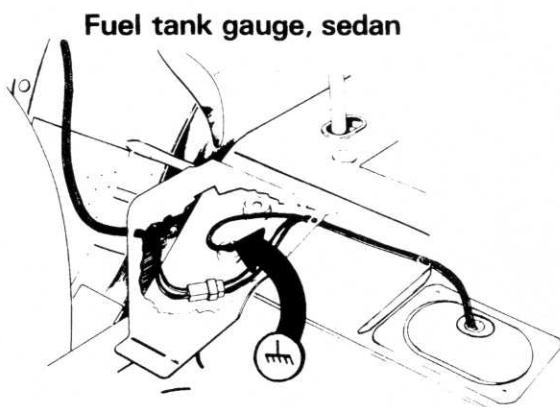
Instruments, controls



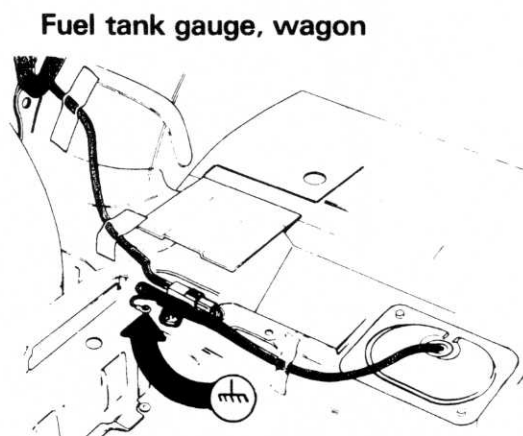
Engine compartment



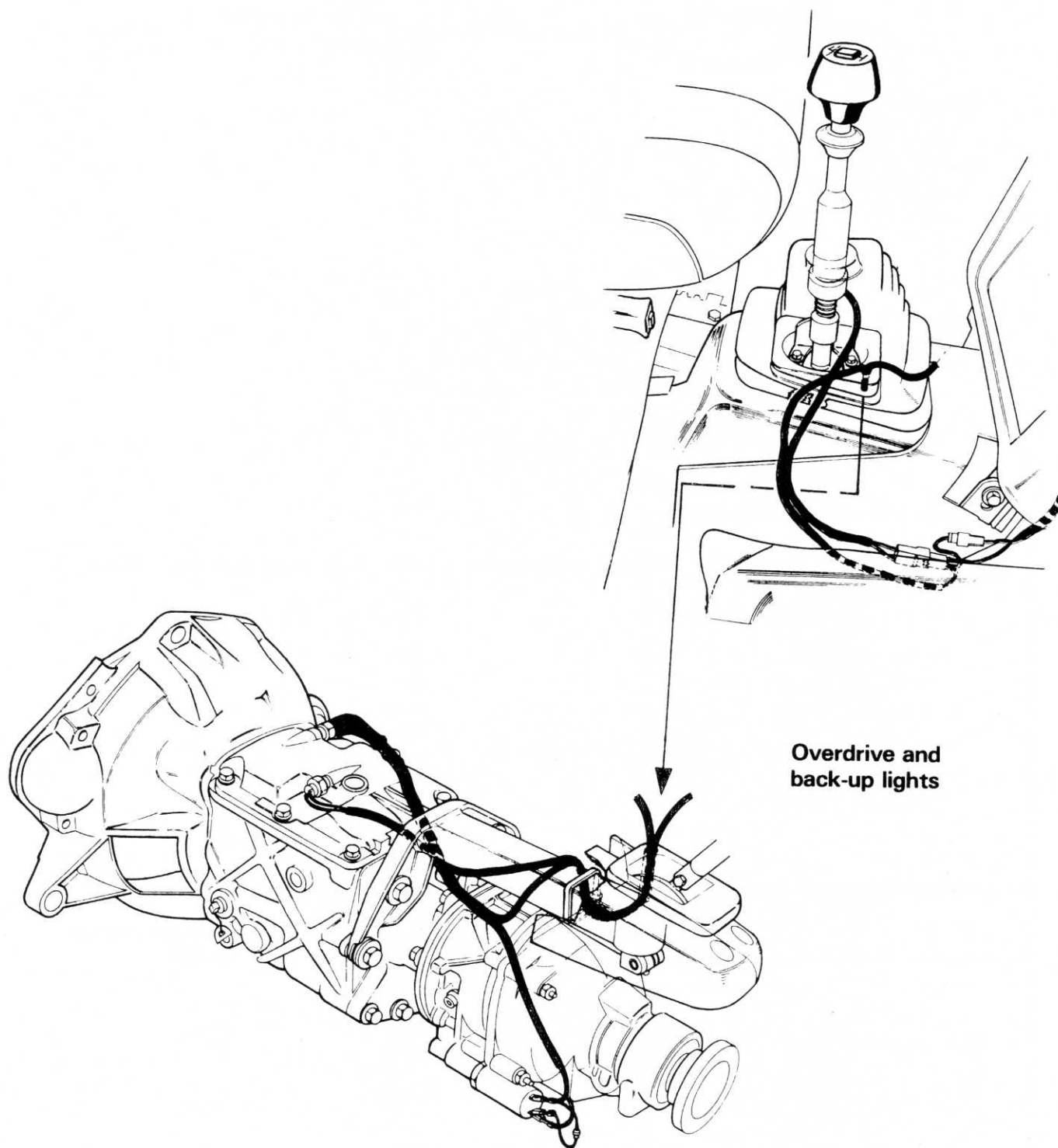
Tail lights

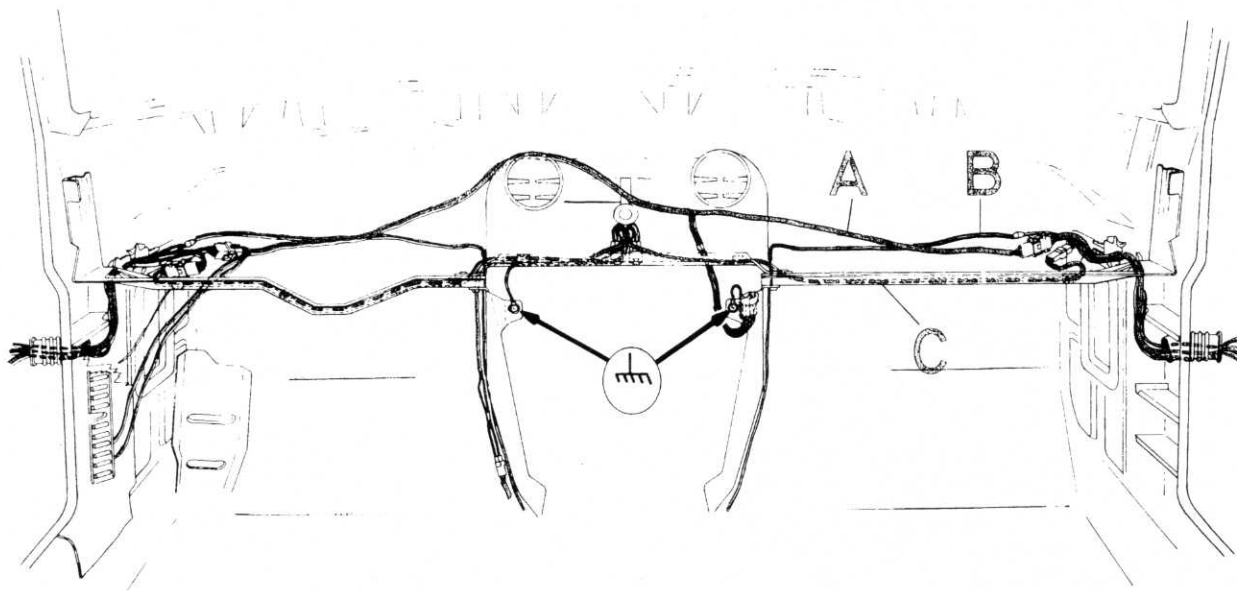


Fuel tank gauge, sedan

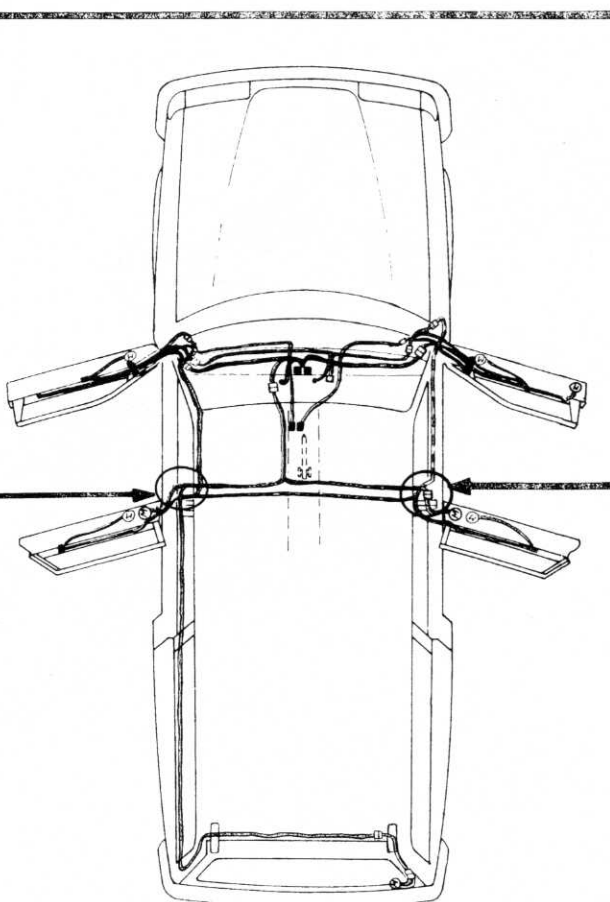
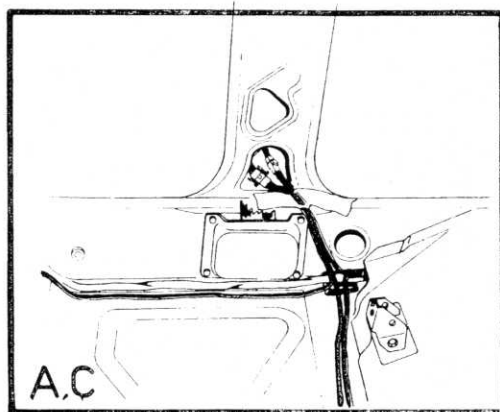
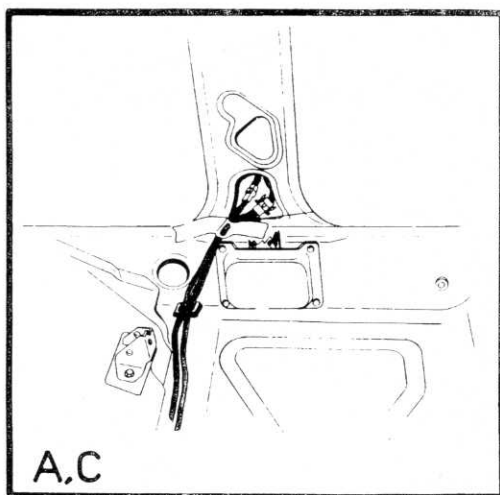


Fuel tank gauge, wagon





- A Window lifts
- B Electrically operated side mirrors
- C Central locks



Master wiring diagram

In the wiring diagrams, the number after the color indicator states the approximate wire gauge.

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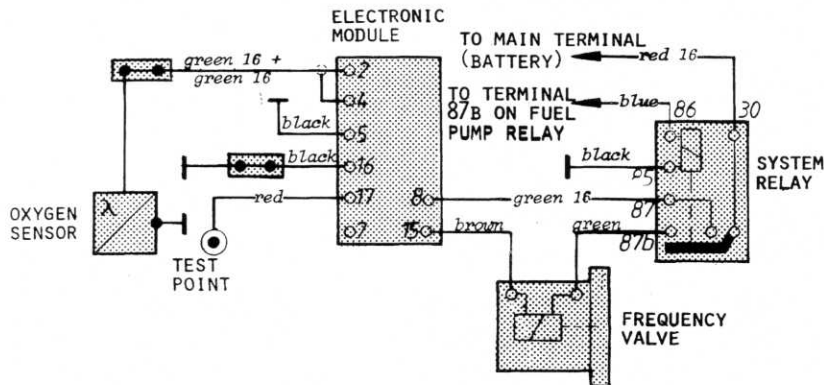
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Electrically operated side mirrors	
Master wiring diagram	Fold-out sheet.

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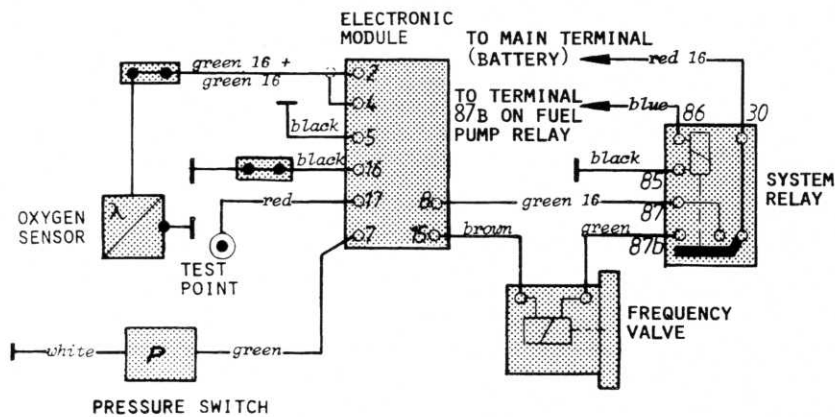
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- Turn signal	F7		- Windshield	B9	
- Windshield wiper/washer ..	B8				



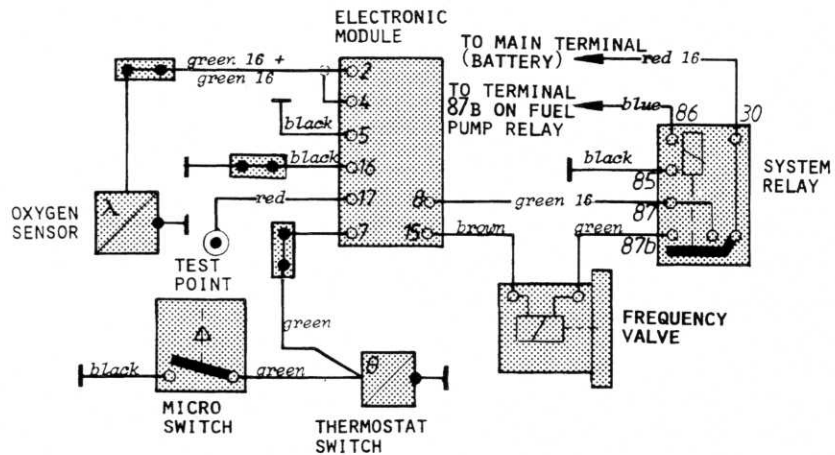
**Lambda-sond System
B21F-MPG**

130576



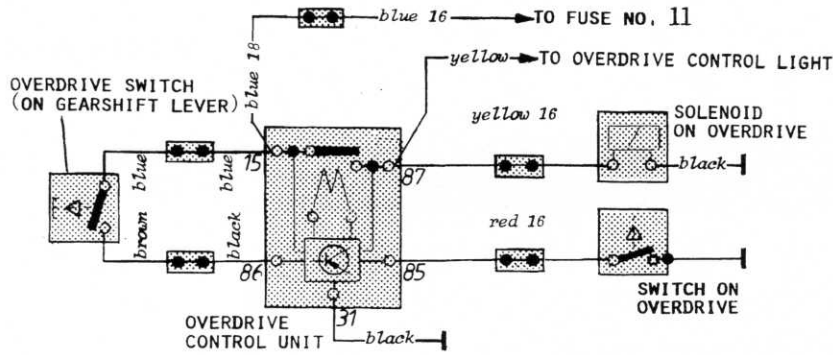
**Lambda-sond System
B21F-Turbo**

130577



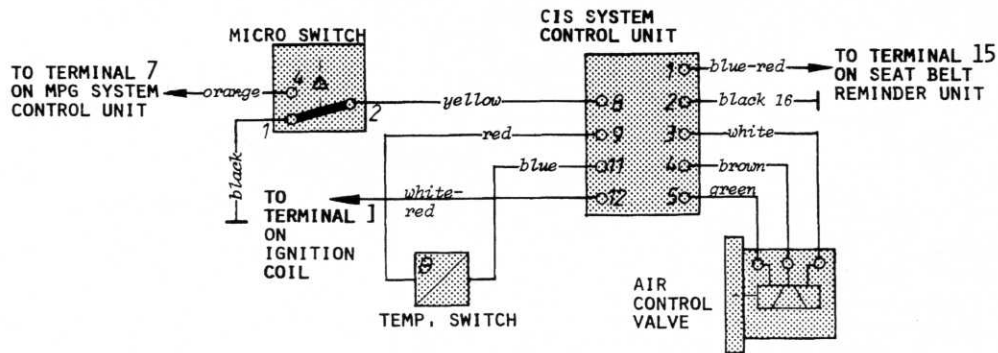
**Lambda-sond System
B21F
B28F**

130578



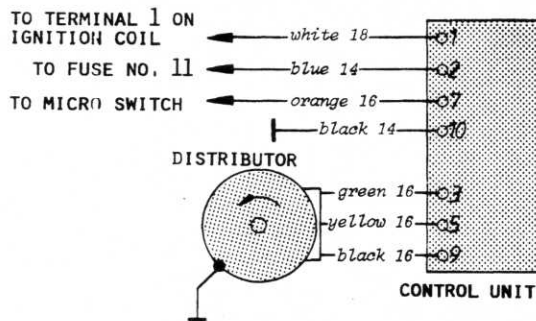
Overdrive

130579



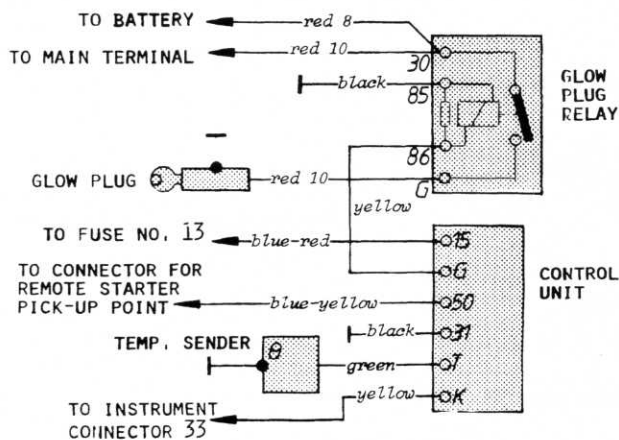
**Constant Idle
Speed System
(CIS System)**

130580



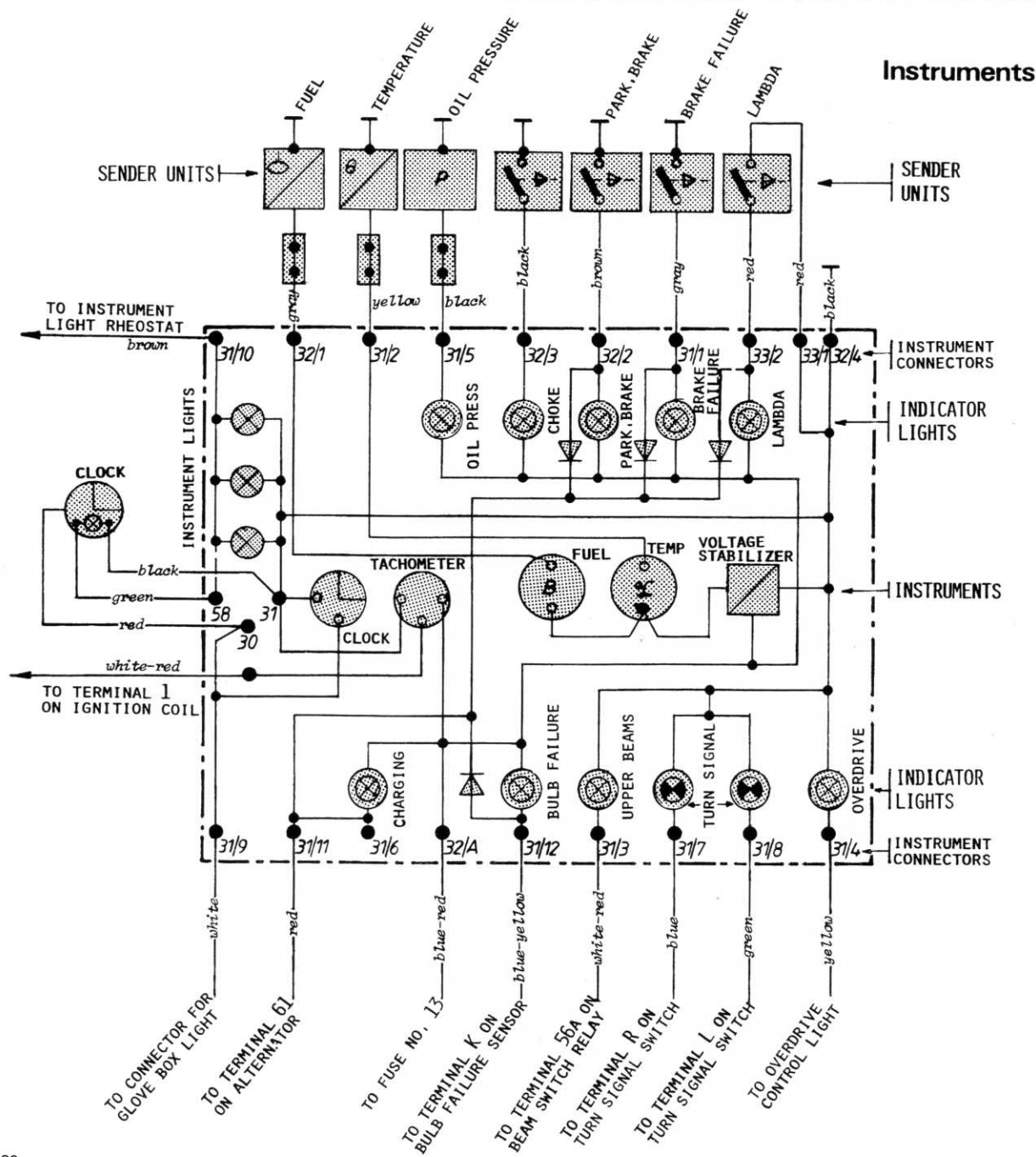
**Spark Control Ignition System
B21F-MPG**

130581

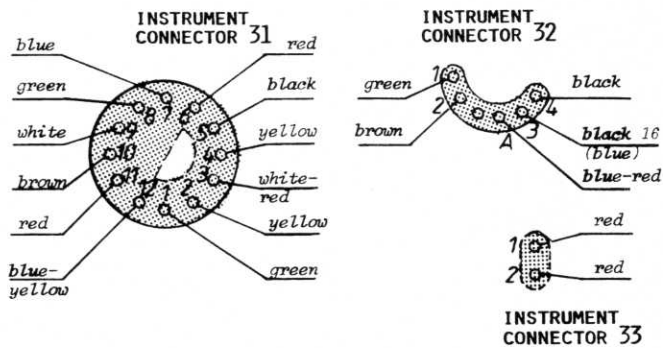


**Diesel,
glow plug circuits**

130582



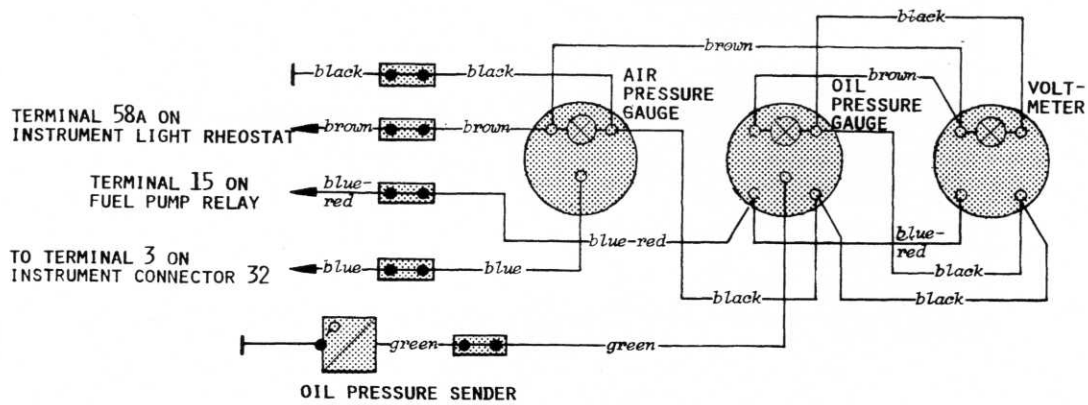
130583



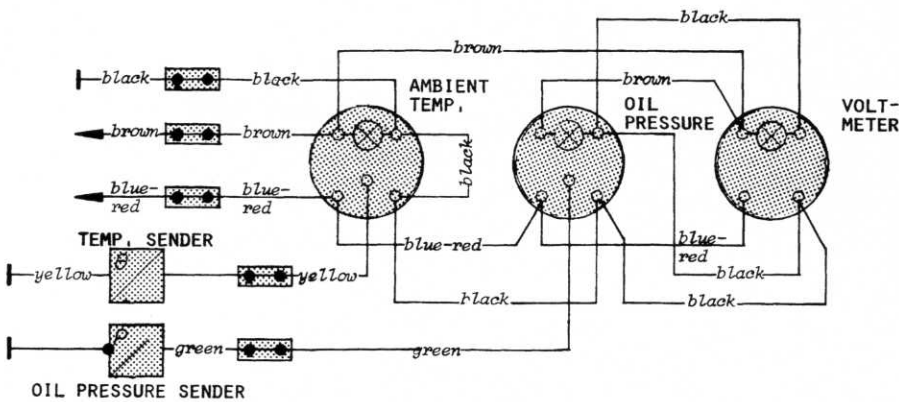
Instrument connector

130584

Additional instruments, B21F-Turbo

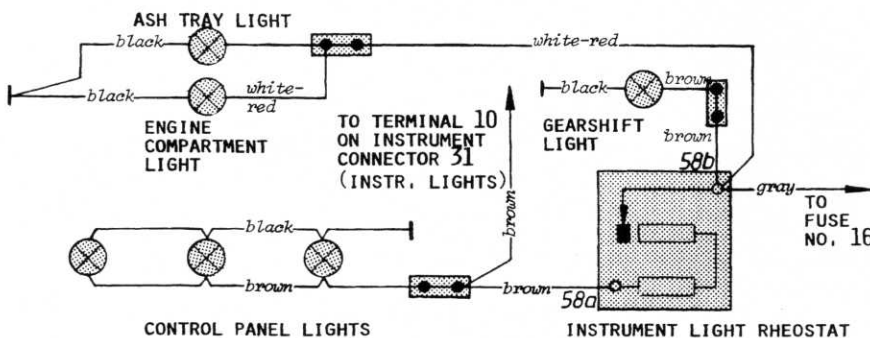


130585



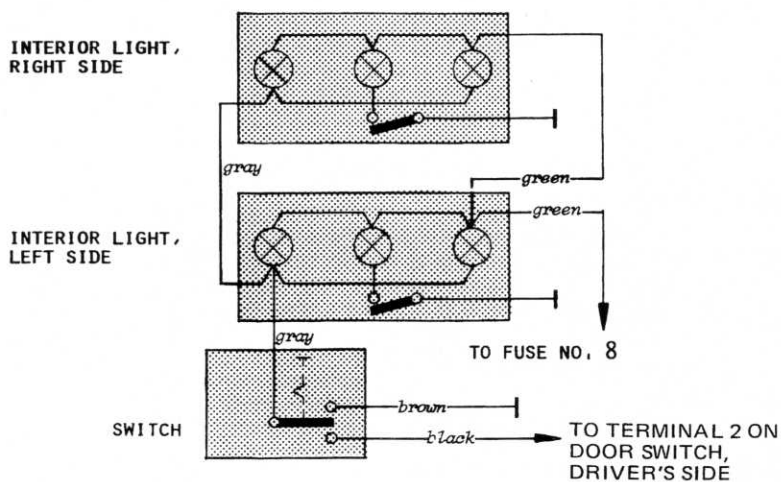
Additional instruments, B23E

130586



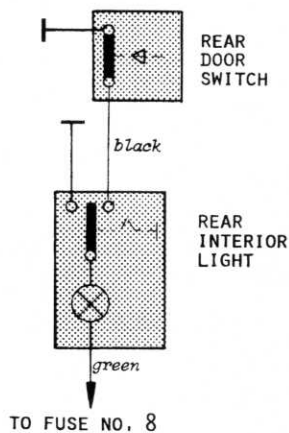
Control panel lights, lights on accessories

130587



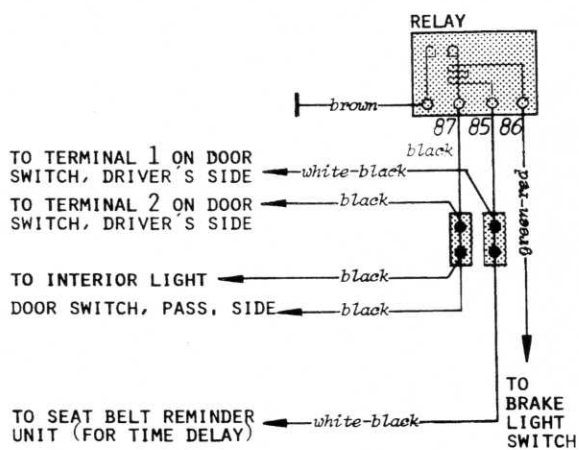
Interior light

130588



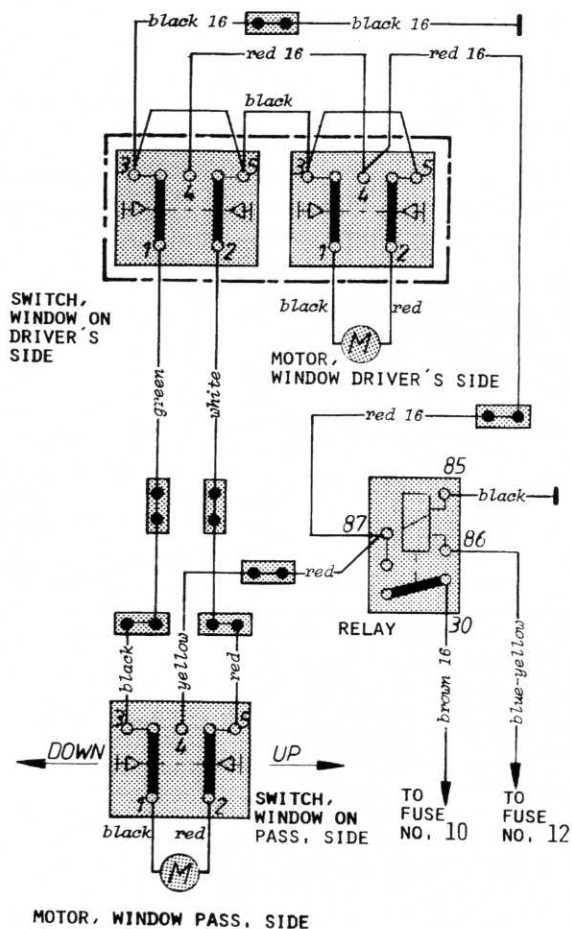
Rear interior light, wagon

130589



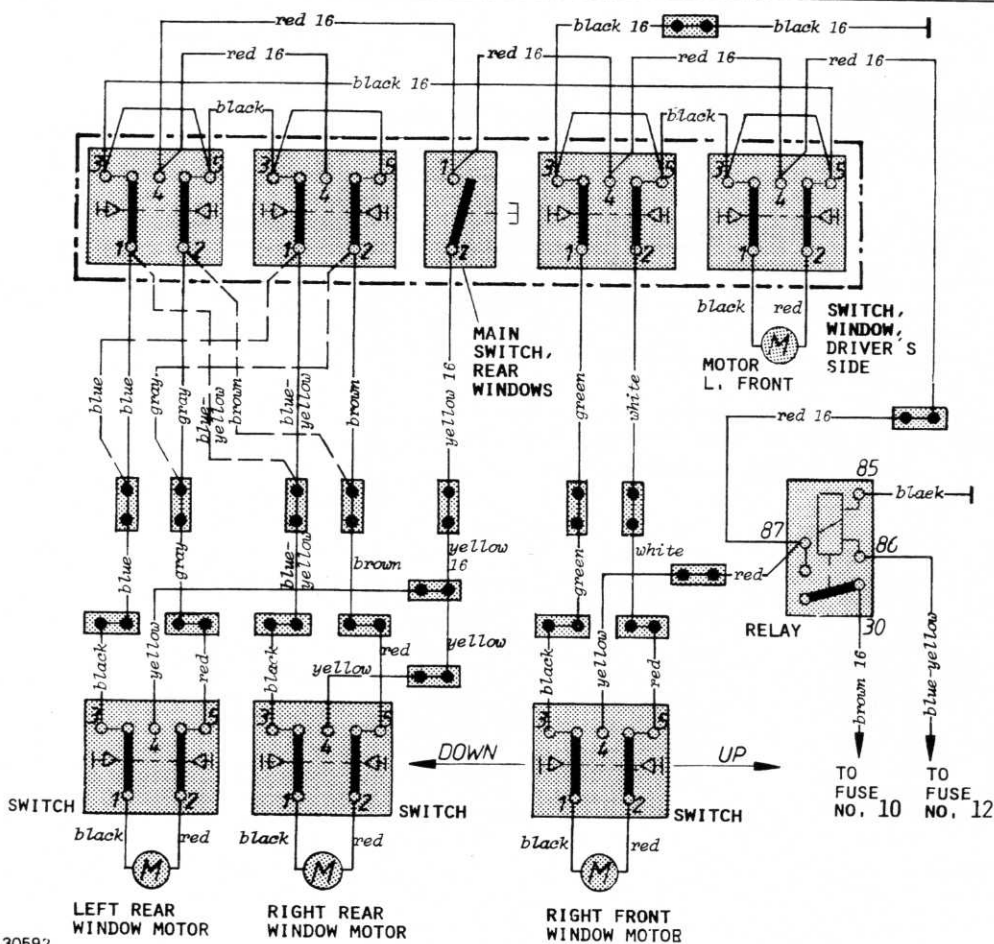
Delayed interior light

130590



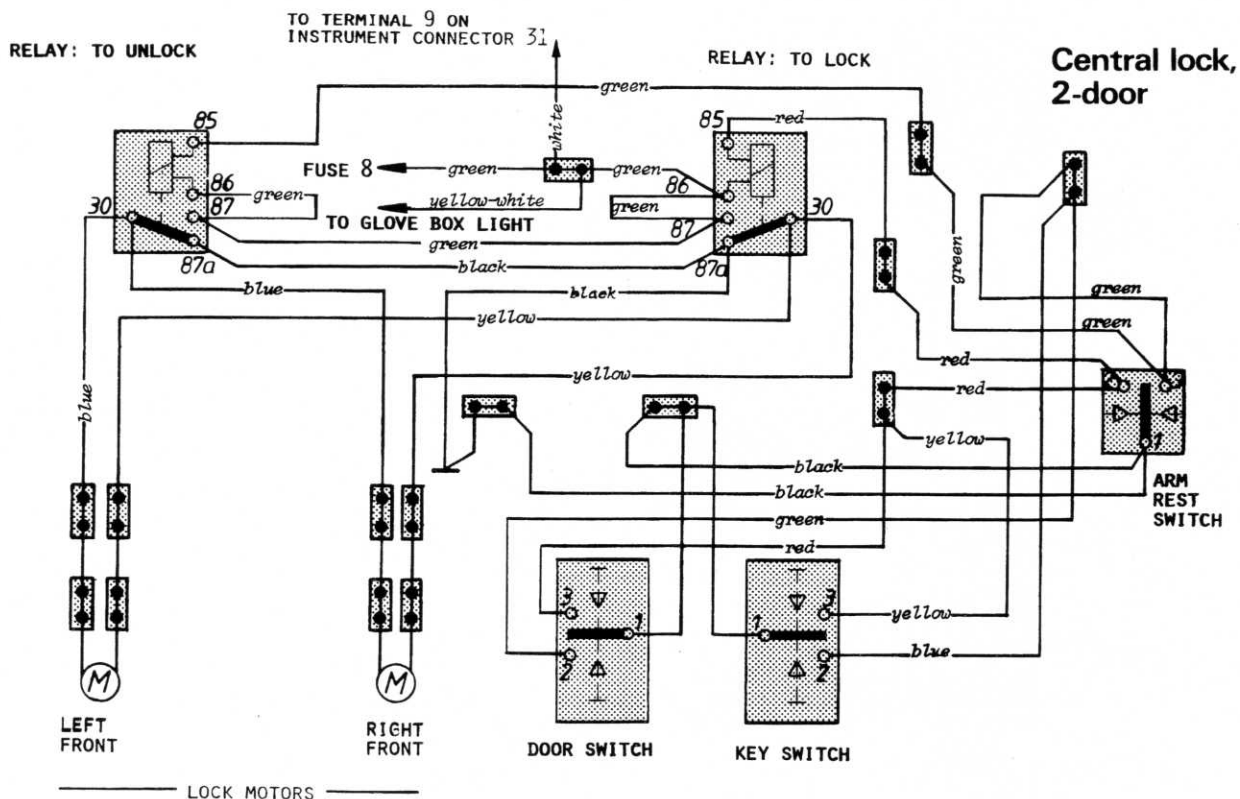
Window lifts,
2-door

130591

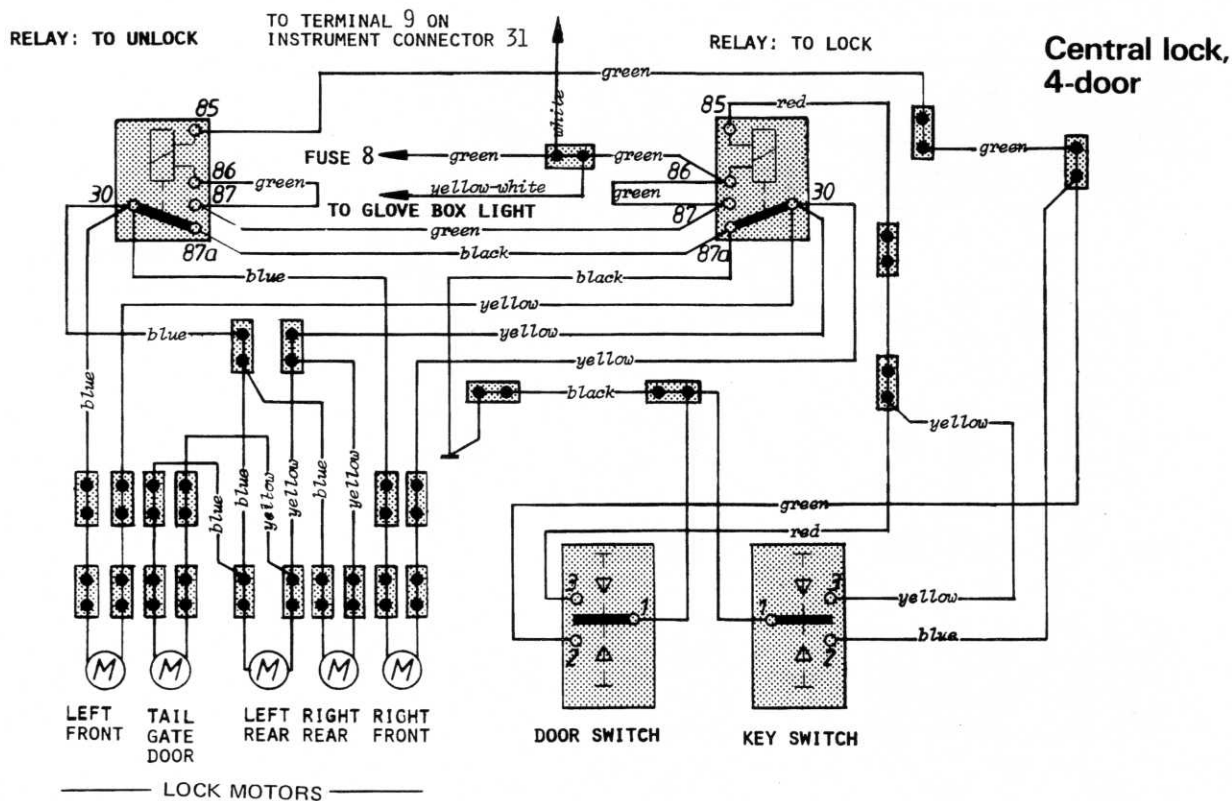


Window lifts,
4-door

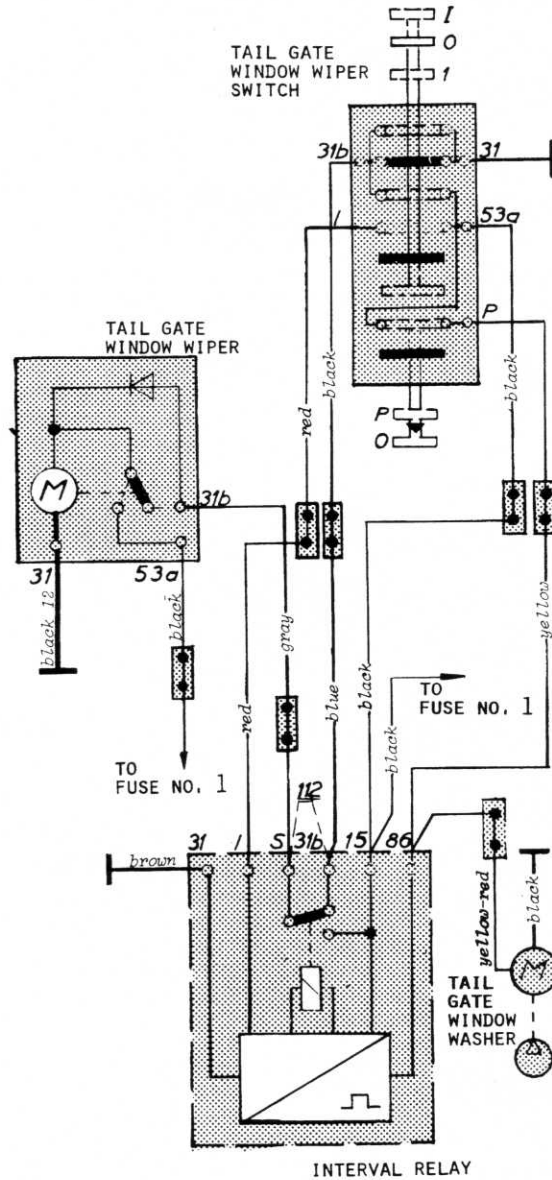
130592



130593

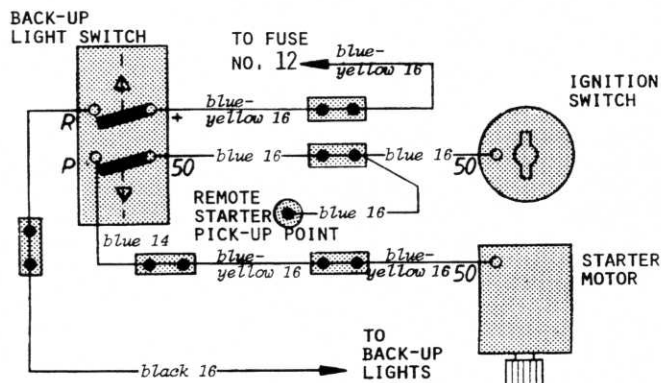


130594



**Tail gate window wiper,
wagon**

130595



**Back-up light,
automatic transmission**

130596

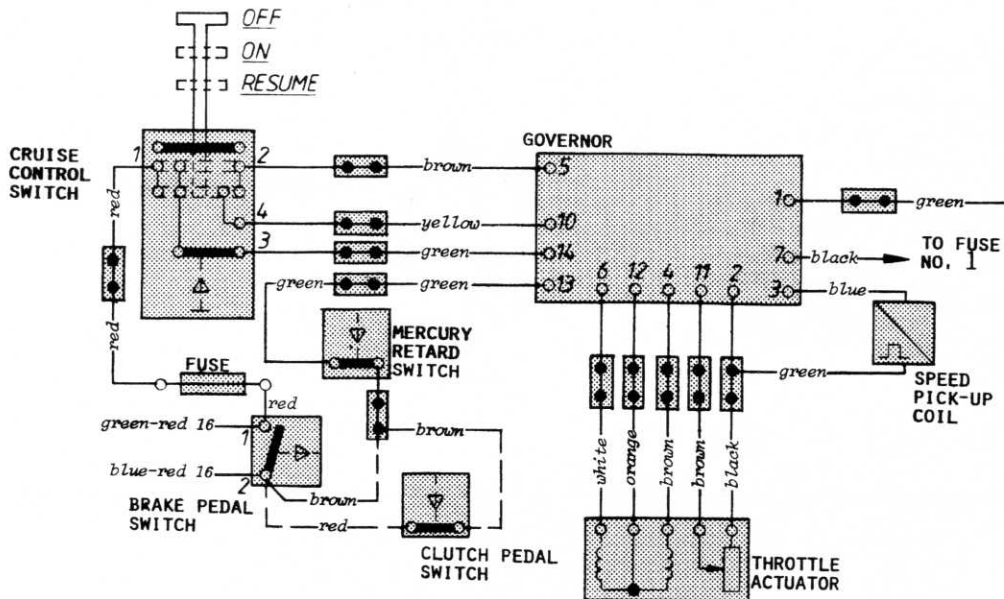


Air conditioning

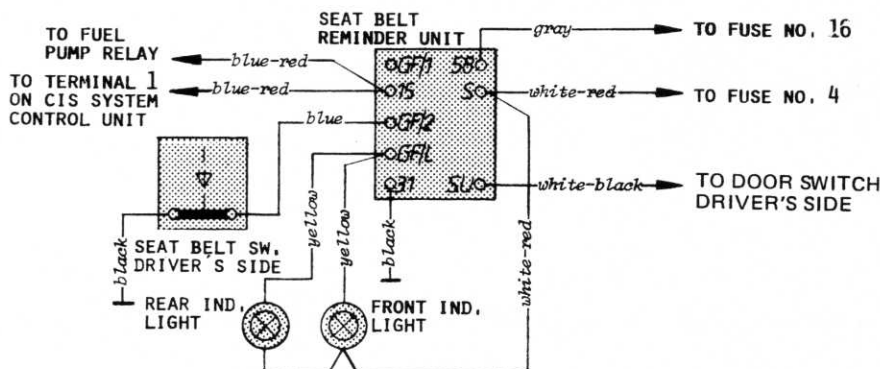


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Wiring diagrams 1981

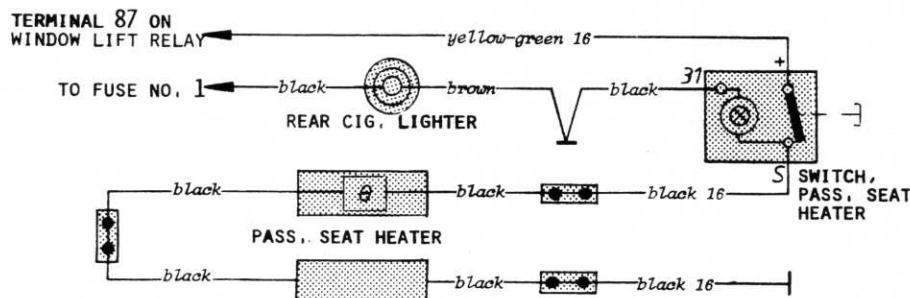
Cruise control

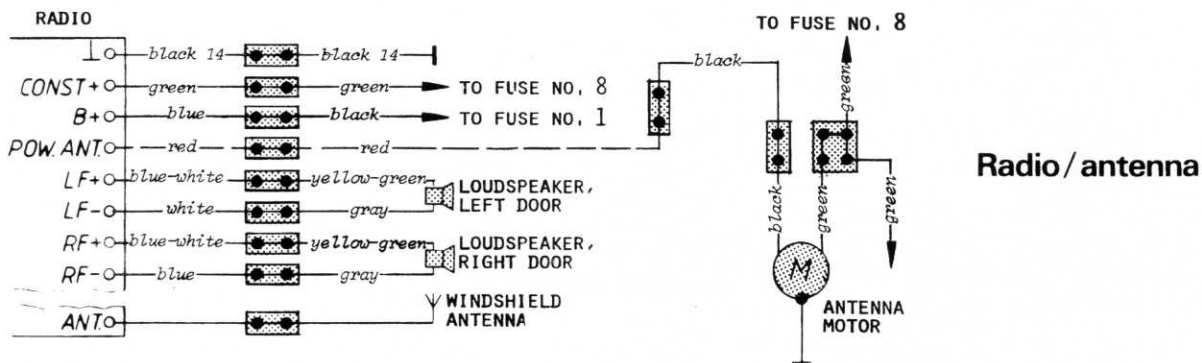


Seat belt reminder system

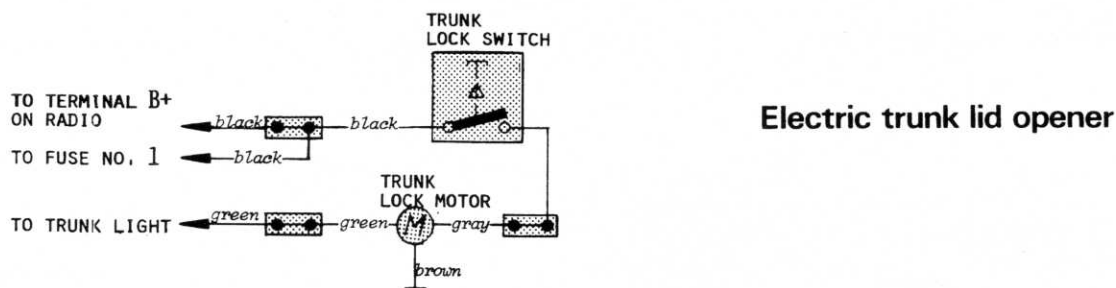


Pass. seat heater, rear cigarette lighter

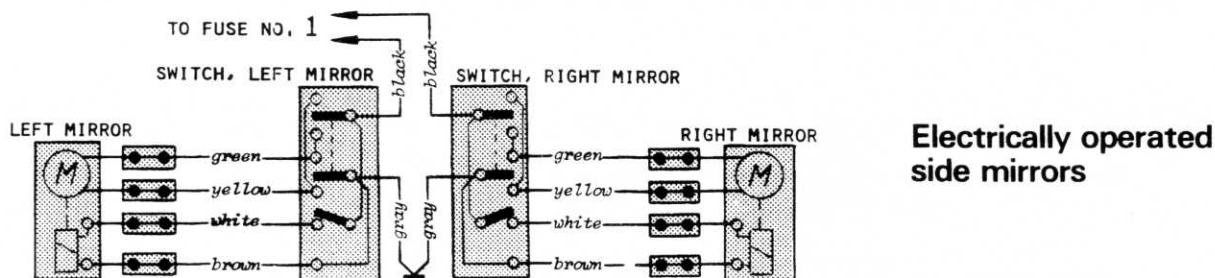




130603



130604

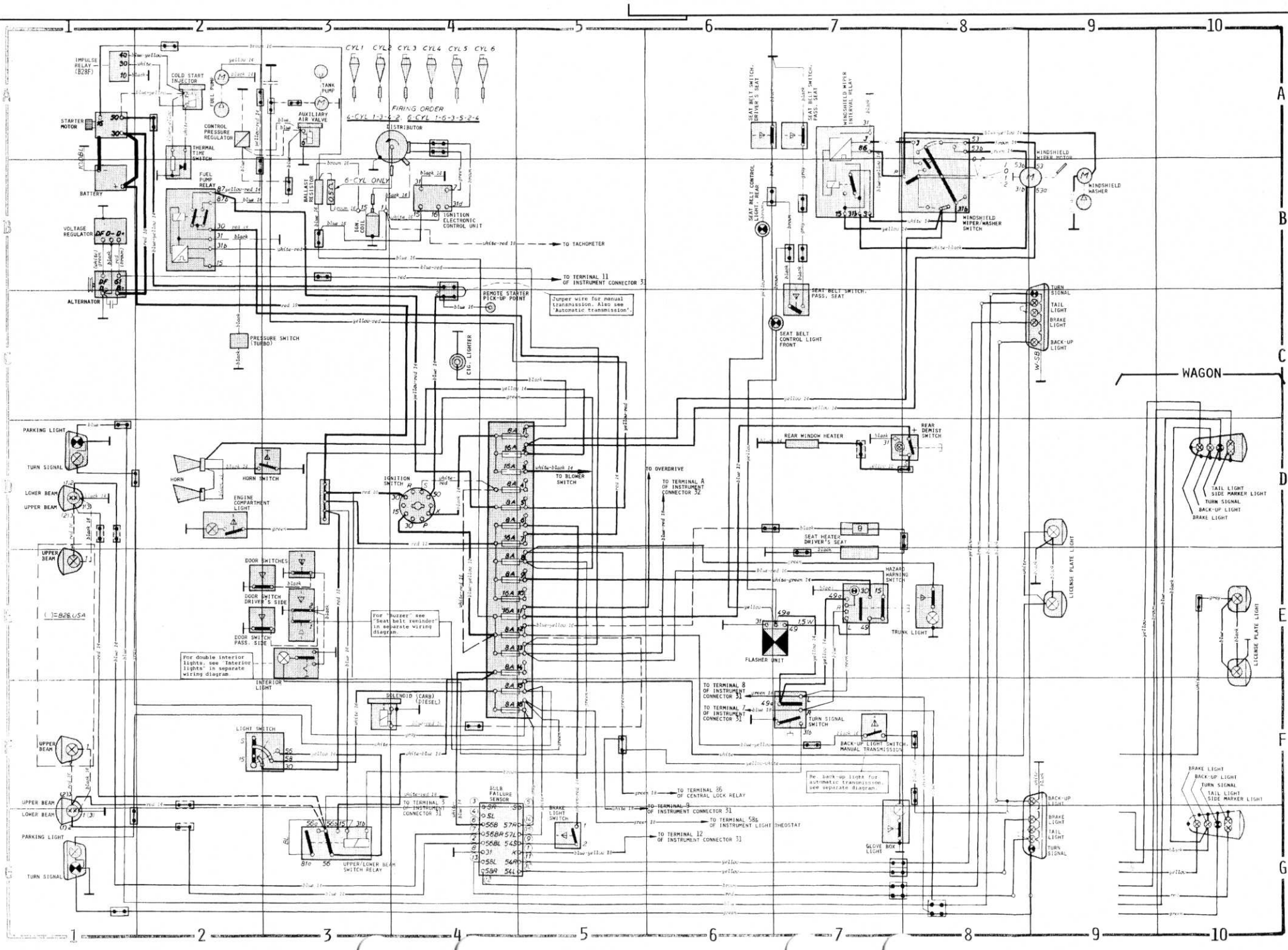


130605



**VOLVO SUPPORTS VOLUNTARY
MECHANIC CERTIFICATION
BY THE N.I.A.S.E.**

(U.S.A. Only)



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