

Wiring Diagrams 1981

Section
3

Group
39

Wiring Diagrams

1981 Models

VOLVO

Contents

NOTE:

Diesel circuitry is generally = GLE

Fuses and related circuits	DL, GL, GLT.....	2
	GLE, Coupe	3
How to use the diagrams		4
Alternator circuits (main wiring)		6
Starting circuits		8
Diesel: starting and glow plug system		10
CI fuel injection system	B21F, B23E	12
	B28F	14
Oxygen sensor feedback system (Lambda-sond)	B21F	16
	B21F-Turbo	18
	B28F	20
Ignition system, w. breaker points	B21A,	22
breakerless electronic	B21F, B21F-Turbo ...	24
	B23E (Canada)	
computer controlled	B21F-MPG	26
breakerless electronic	B28F	28
Constant Idle Speed (CIS) System	B21F, B21F-MPG	30
	B21F-Turbo	32
	B28F	34

Lights

Headlights		36
Parking lights, tail lights,	DL, GL	38
license plate lights	GLE, GLT, Coupe	40
Parking light, tail lights, license plate lights,	Wagon	42
Brake lights	DL, GL	44
	GLE, GLT, Coupe	46
	Wagon	48
Back-up lights, manual transmission	DL, GL	50
	GLE, GLT, Coupe	52
	Wagon	54
automatic transmission	DL, GL	56
	GLE, Coupe	58
	Wagon	60
Interior light	DL, GL, GLT	62
Rear interior light	Wagon	64
Delayed interior light	GLE, Coupe	66
	Coupe	68
Engine compartment light, trunk light		70
Glove box light		72
Instrument lights, lights on controls		74

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Printed in U.S.A.

Items associated with instrument panel

Instrument cluster	6
Oil pressure gauge	78
Voltmeter	80
Ambient temperature gauge	82
Clock	84
Cigarette lighter	86

Warning systems

Bulb failure warning system	88
Brake failure warning system	90
Seat belt warning system	92
Ignition key and light warning buzzer	94

Signals

Turn signals and hazard warning flashers	96
Wagon	98
Horn	100

Wiper/washer

Windshield wiper and washer	102
- operation modes	104
Tail gate window wiper and washer	
- With interval relay	106
- Without interval relay	108

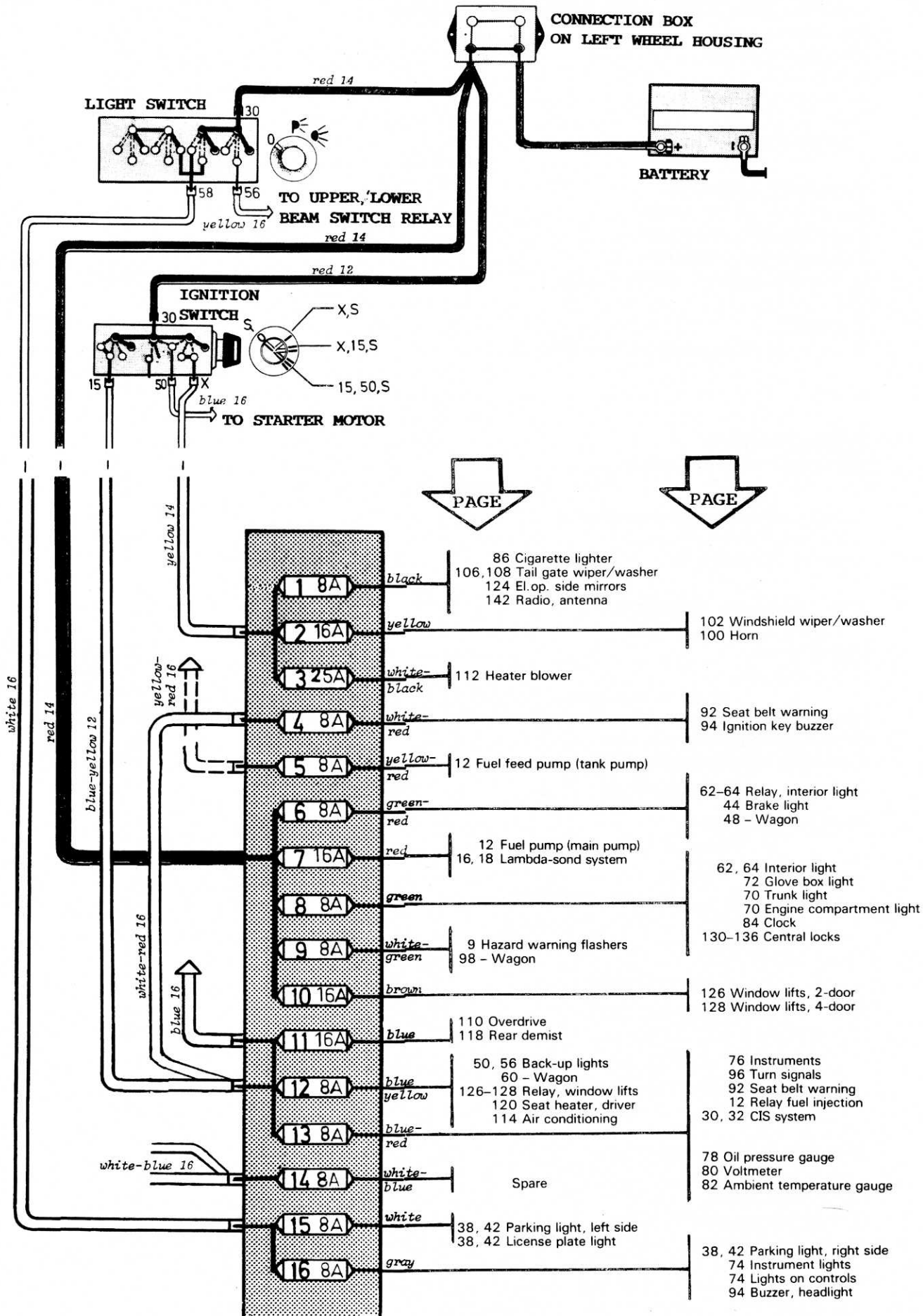
Electrical equipment

Overdrive	110
Heater blower	112
Air conditioning	114
- operation modes	116
Rear demist	118
Electrically heated driver's seat	120
Electrically heated passenger seat	122
Electrically operated side mirrors	124
Window lifts, 2-door	126
4-door	128
Central lock, 4/5-door	130
- operation modes	132
Coupe	134
- operation modes	136
Cruise control	138
- operation modes	140
Radio and power antenna	142
Electric cooling fan	144
Locations for relays, buzzers, control units etc	146
Locations for Electronic Control Units	148
Wiring harnesses	149

Master wiring diagram

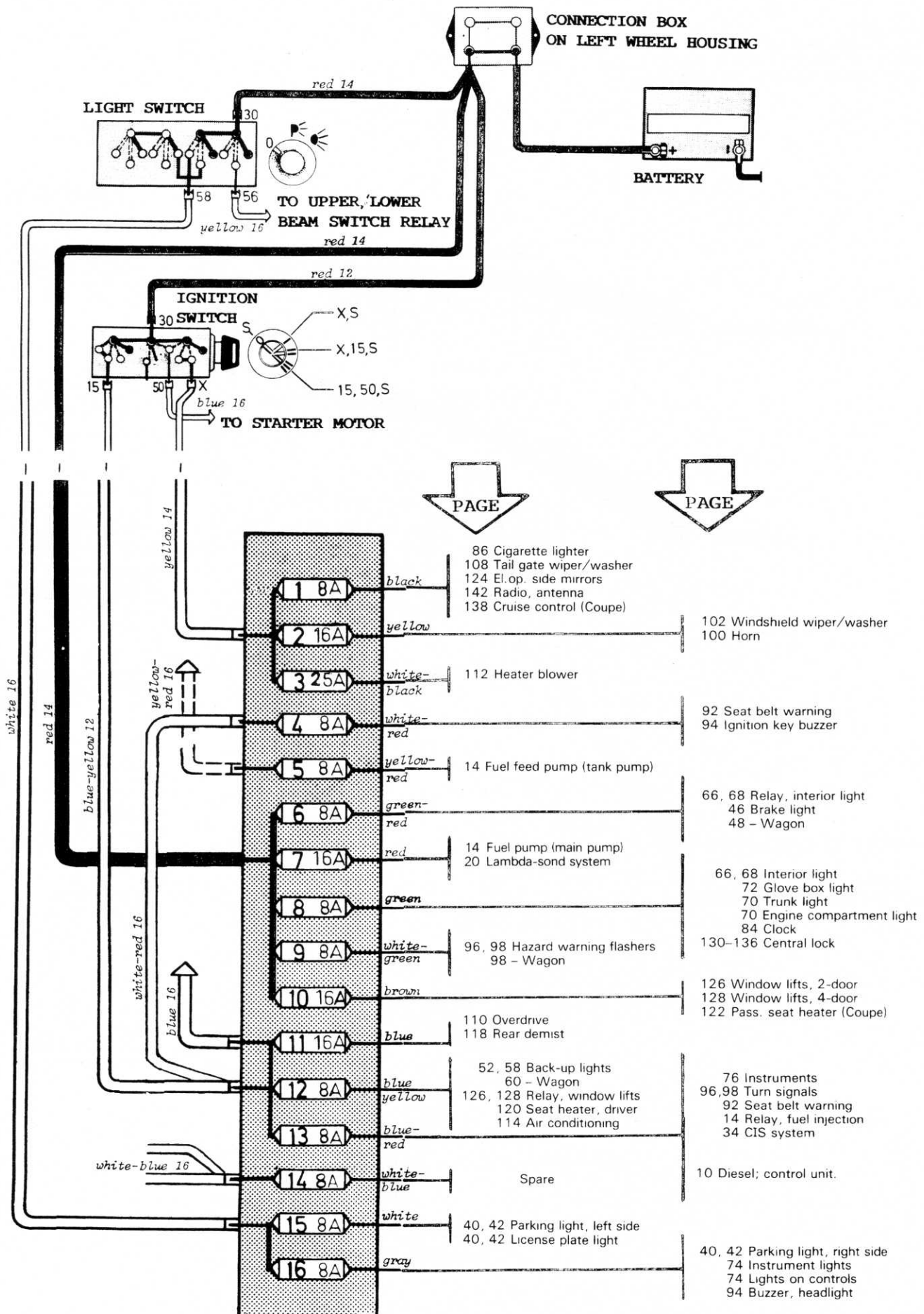
Contents	153
Alphabetical index	154
Wiring diagrams and locators	156
Master wiring diagram, fold-out sheet	End of manual

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



Fuses and related circuits

GLE, Coupe (GLT: rear lights)

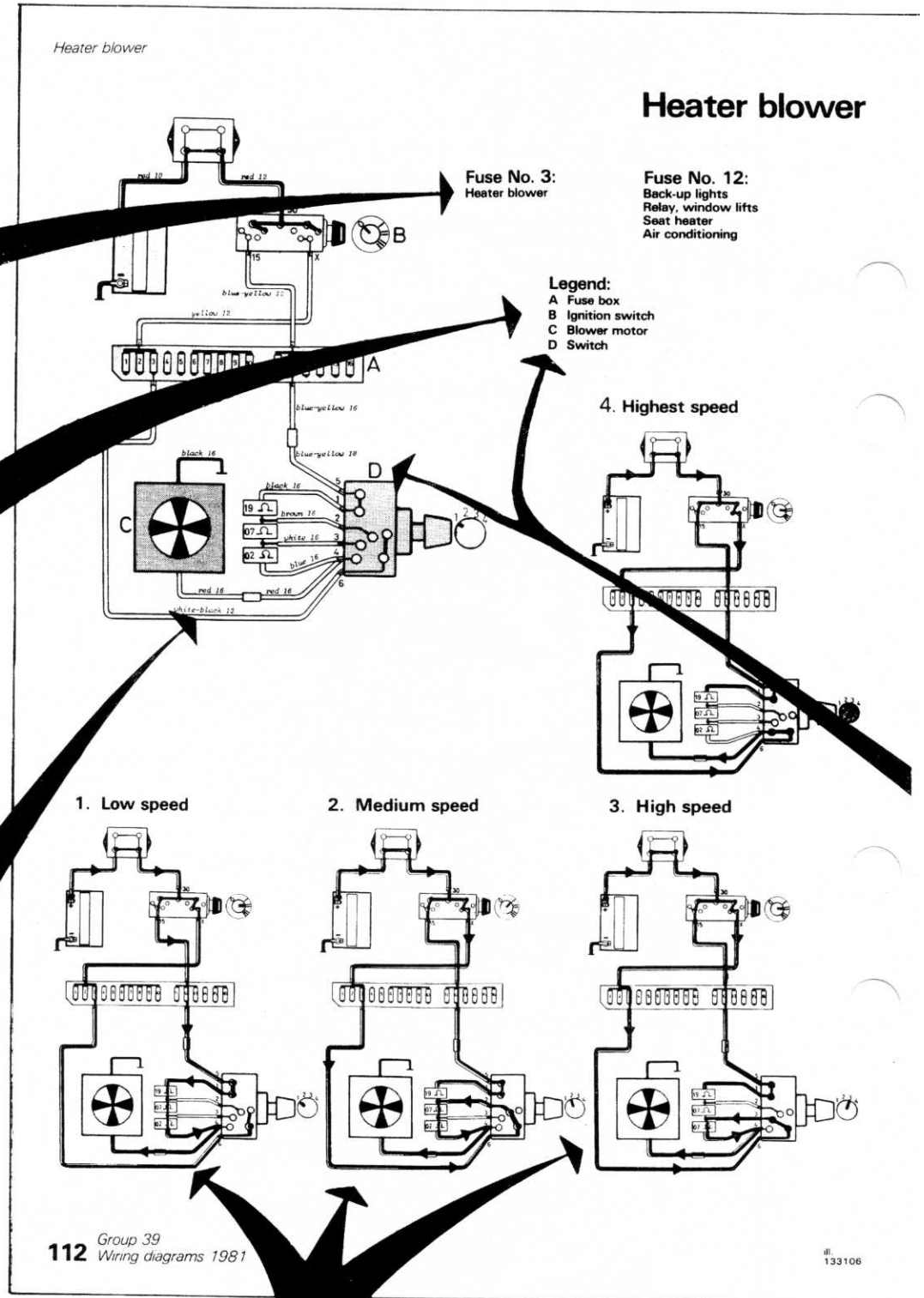


How to use the diagrams

Left page

Illustrates the **electrical circuit**.

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

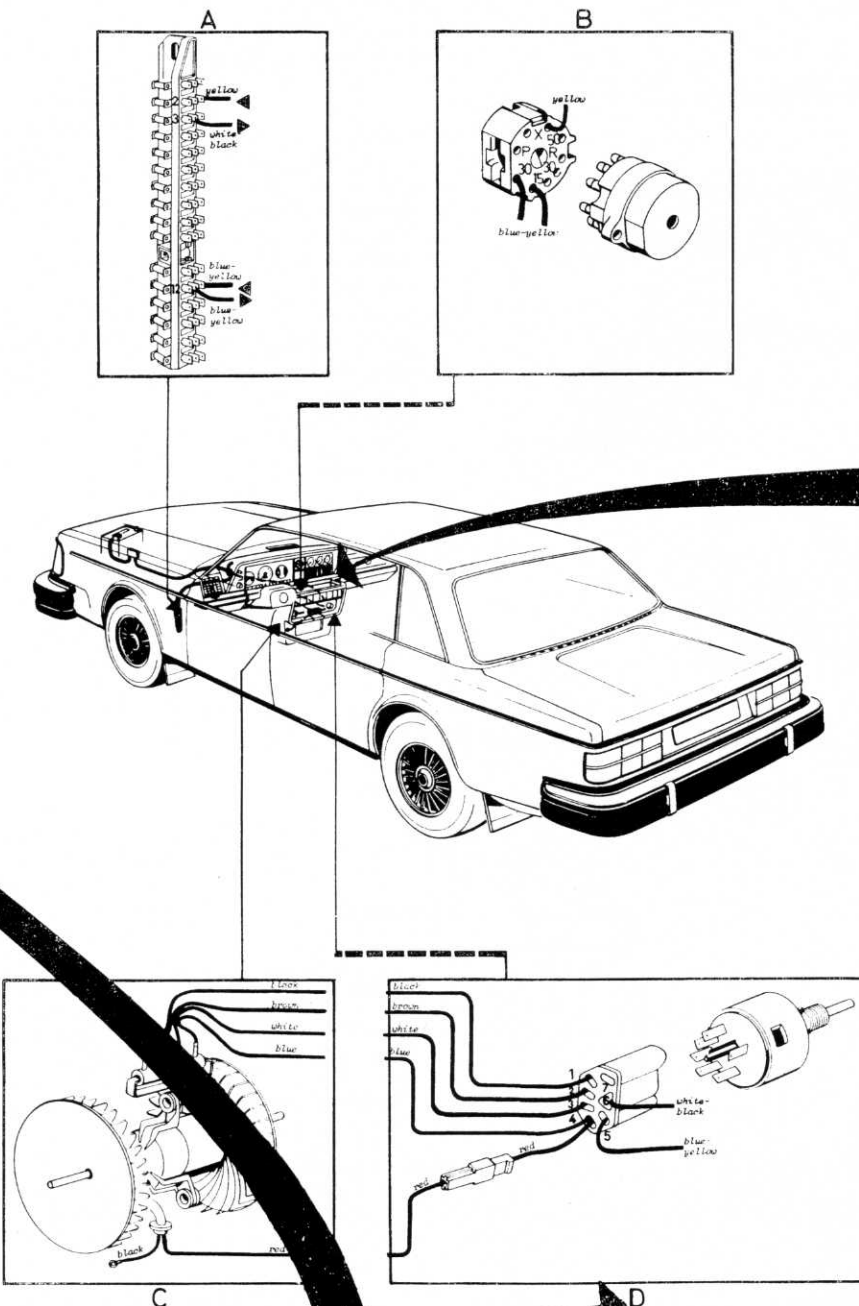


How to use the diagrams

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

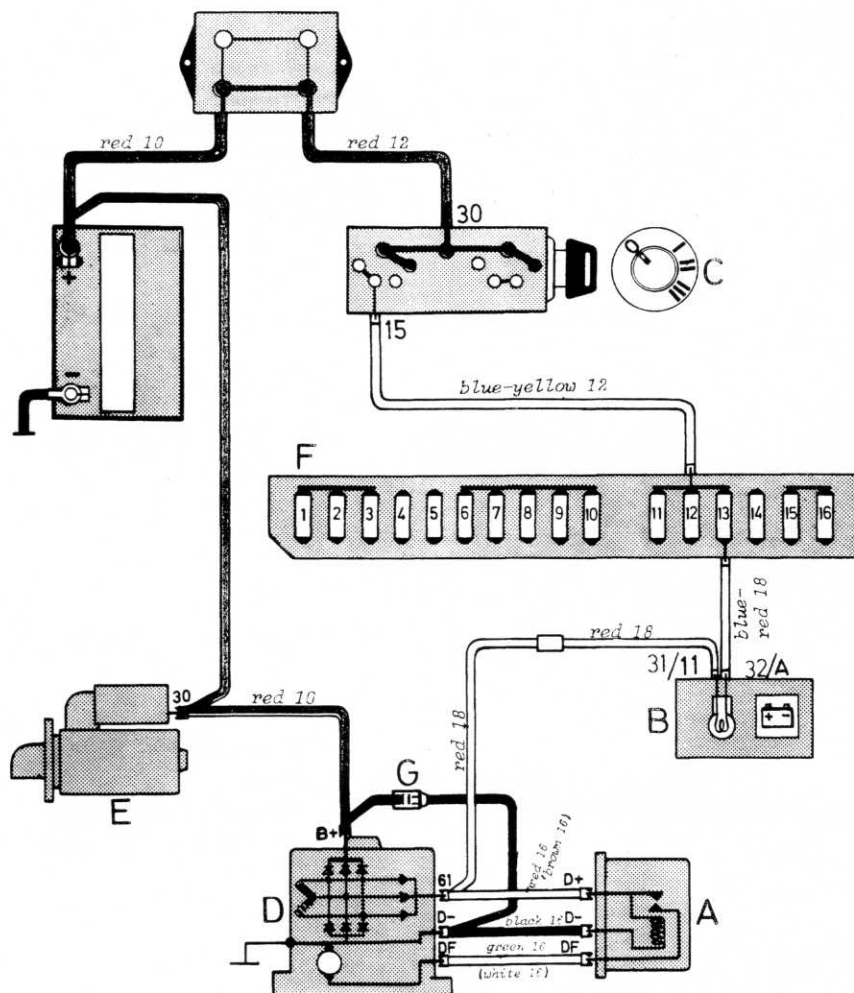
Component terminals and wire connections

Letters facilitate referencing components on either page

Group 39
Wiring diagrams 1981 113

113
133107

Alternator circuits

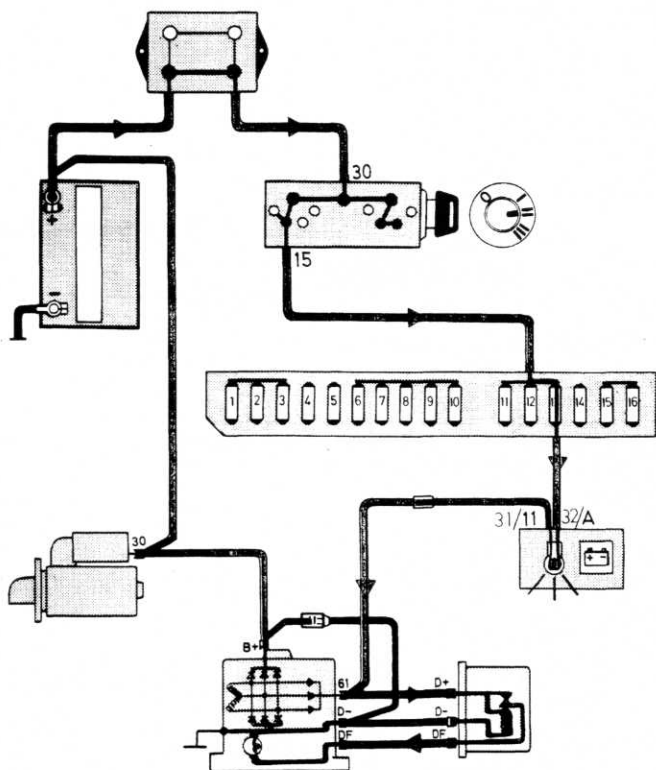


Fuse No. 13:
 Instruments
 Turn signals
 Seat belt warning
 Relay, fuel injection
 Solenoid valve (carburetor)

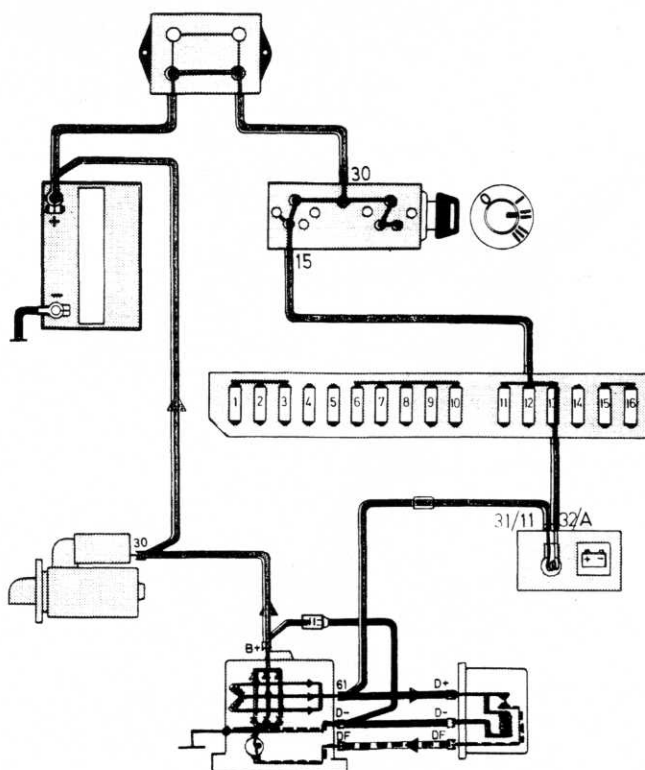
Legend:
 A Voltage regulator
 B Instrument cluster
 C Ignition switch
 D Alternator
 E Starter motor
 F Fuse box
 G Capacitor

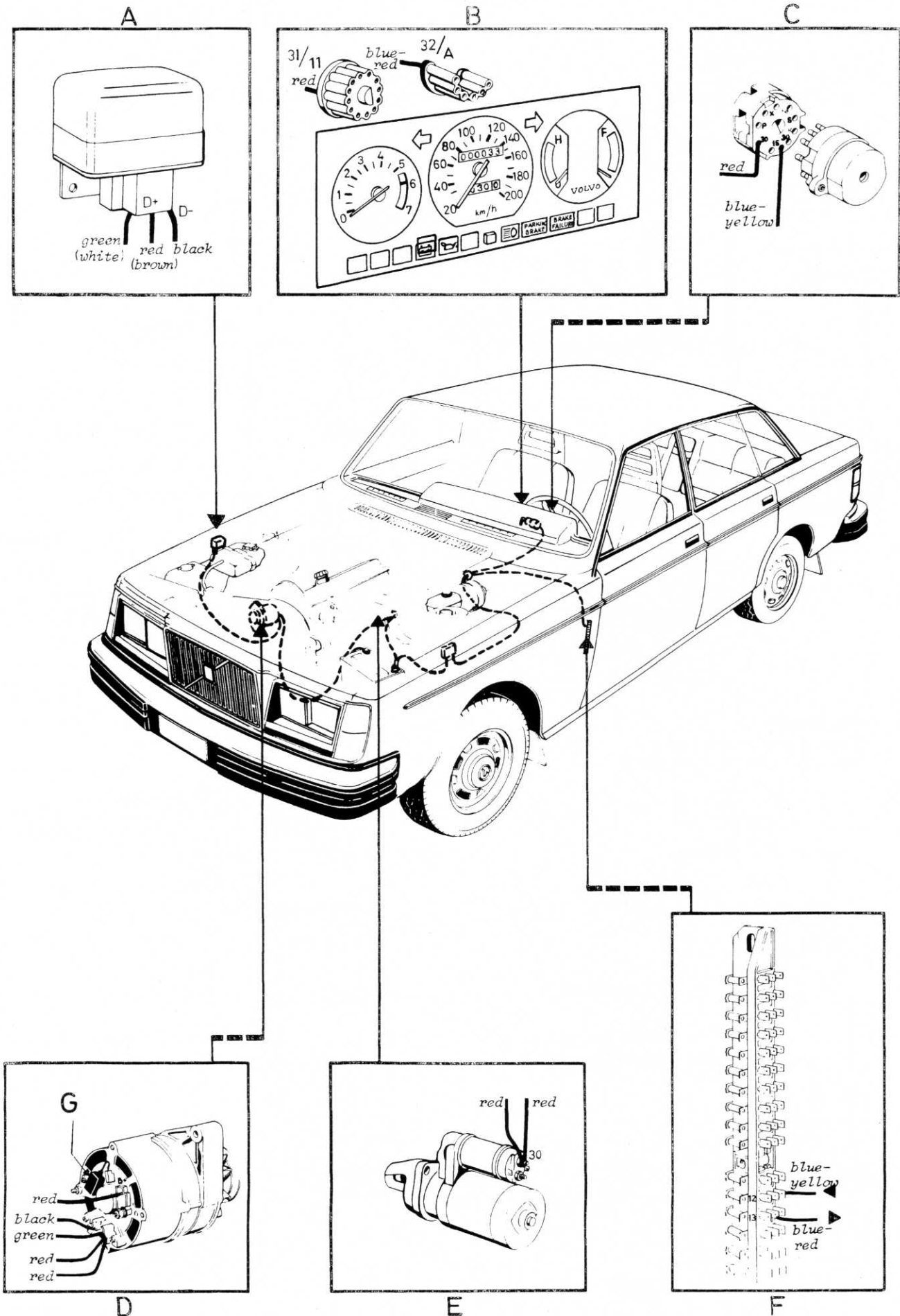
NOTE: Voltage regulator shown in schematic is symbolic of and not actual regulator.
 A solid state regulator is presently used.

Ignition ON
 (engine not running)

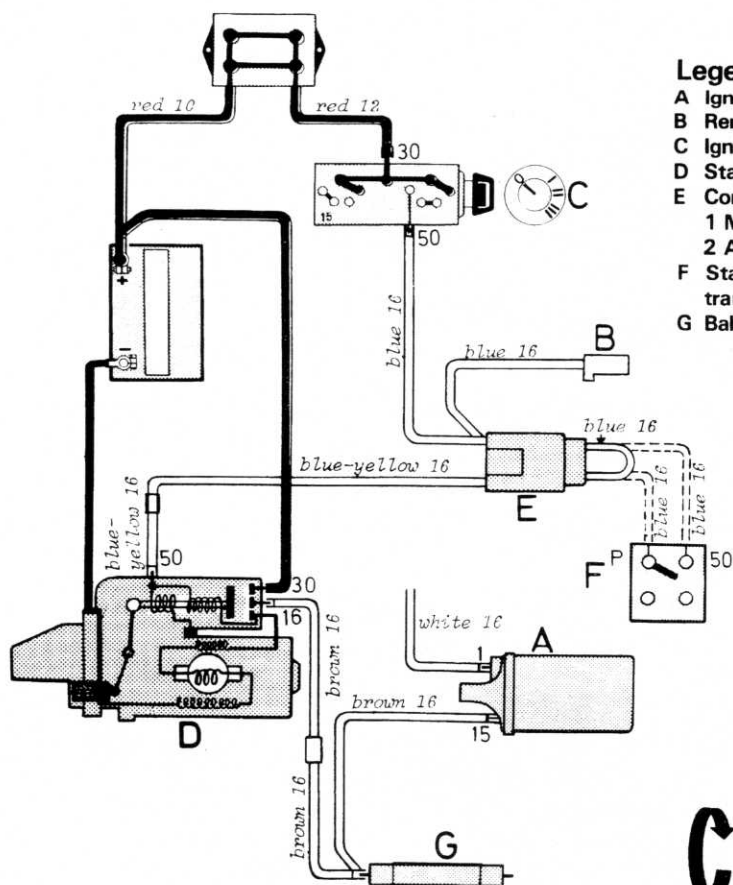


Alternator charging



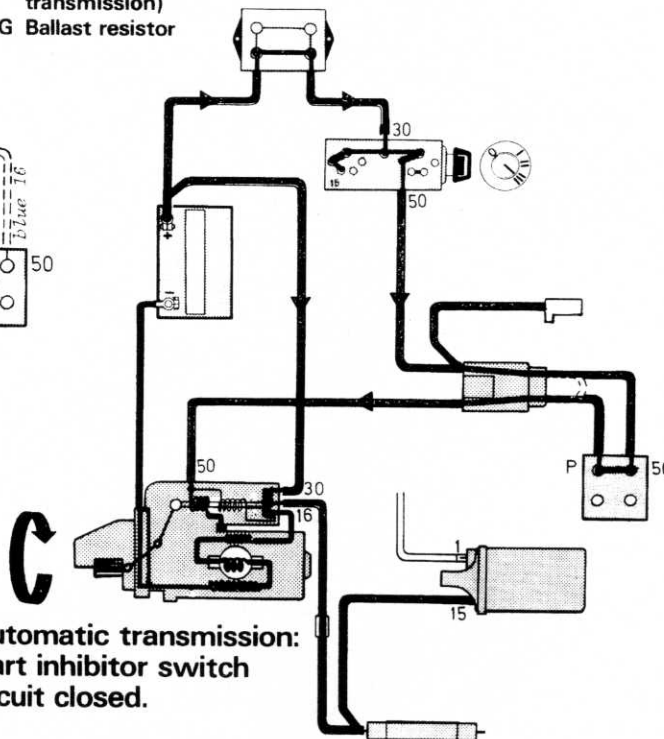


Starting circuits



Legend:

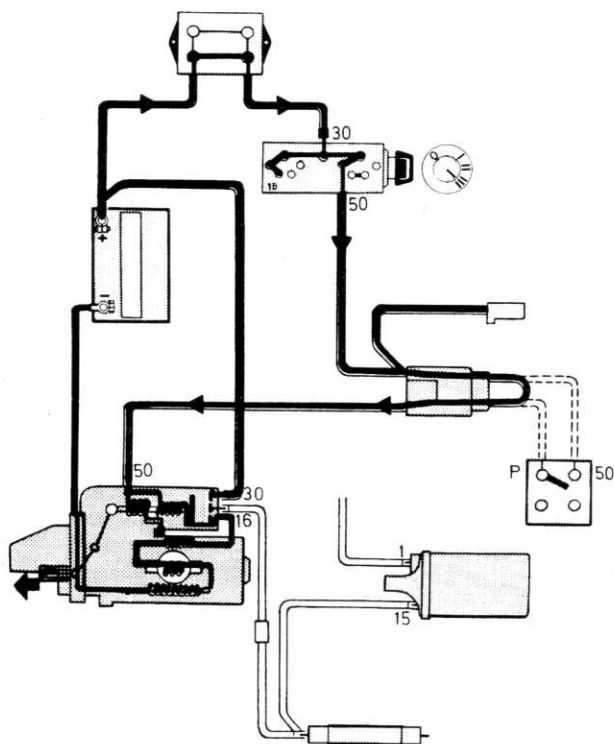
- A Ignition coil
- B Remote starter pick-up point
- C Ignition switch
- D Starter motor
- E Connector
- 1 Manual transmission
- 2 Automatic transmission
- F Start inhibitor switch (automatic transmission)
- G Ballast resistor



Automatic transmission:
start inhibitor switch
circuit closed.

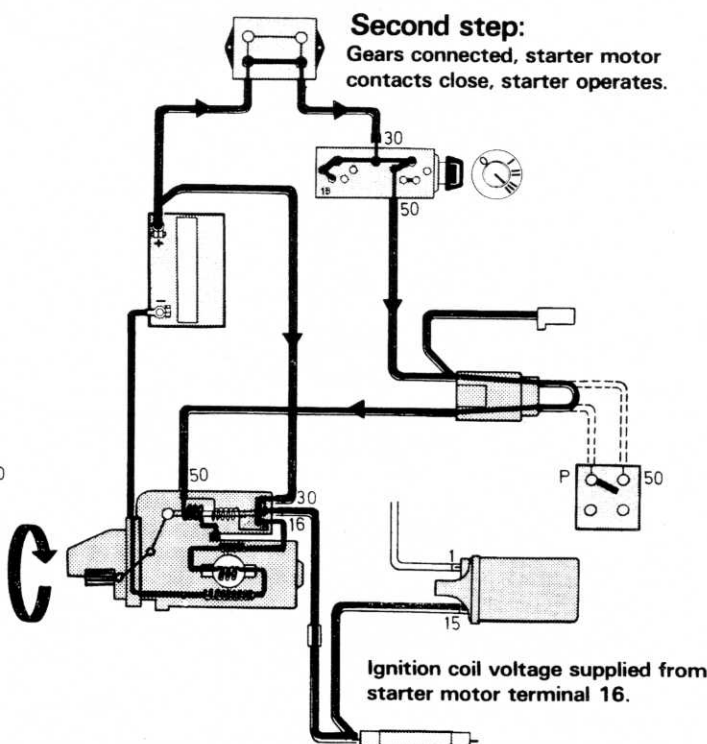
First step:

Solenoid pushes starter motor
gear into contact with ring gear.

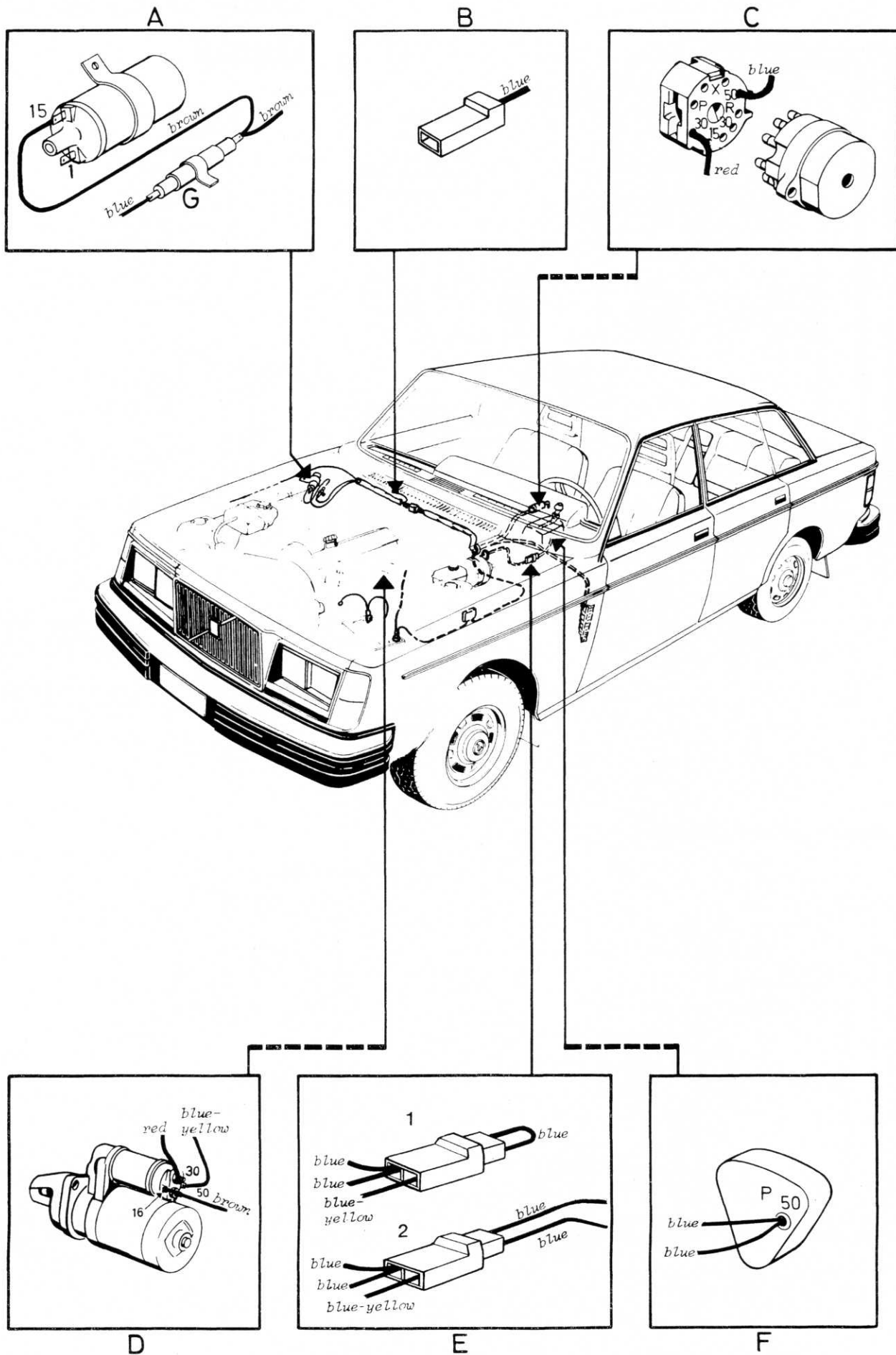


Second step:

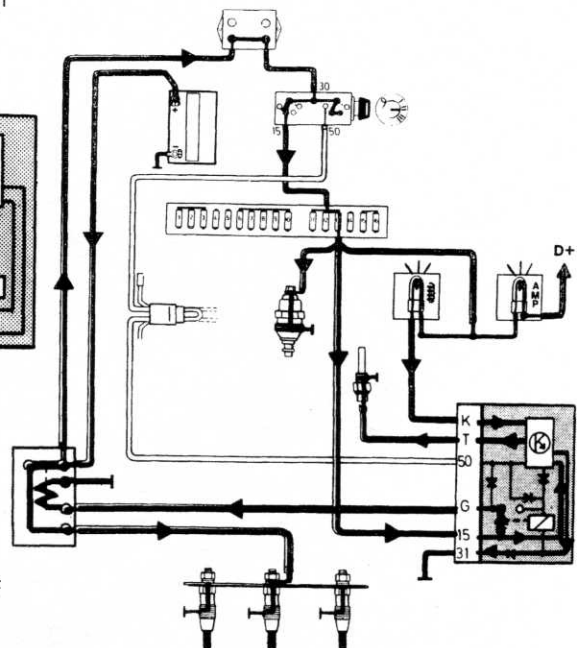
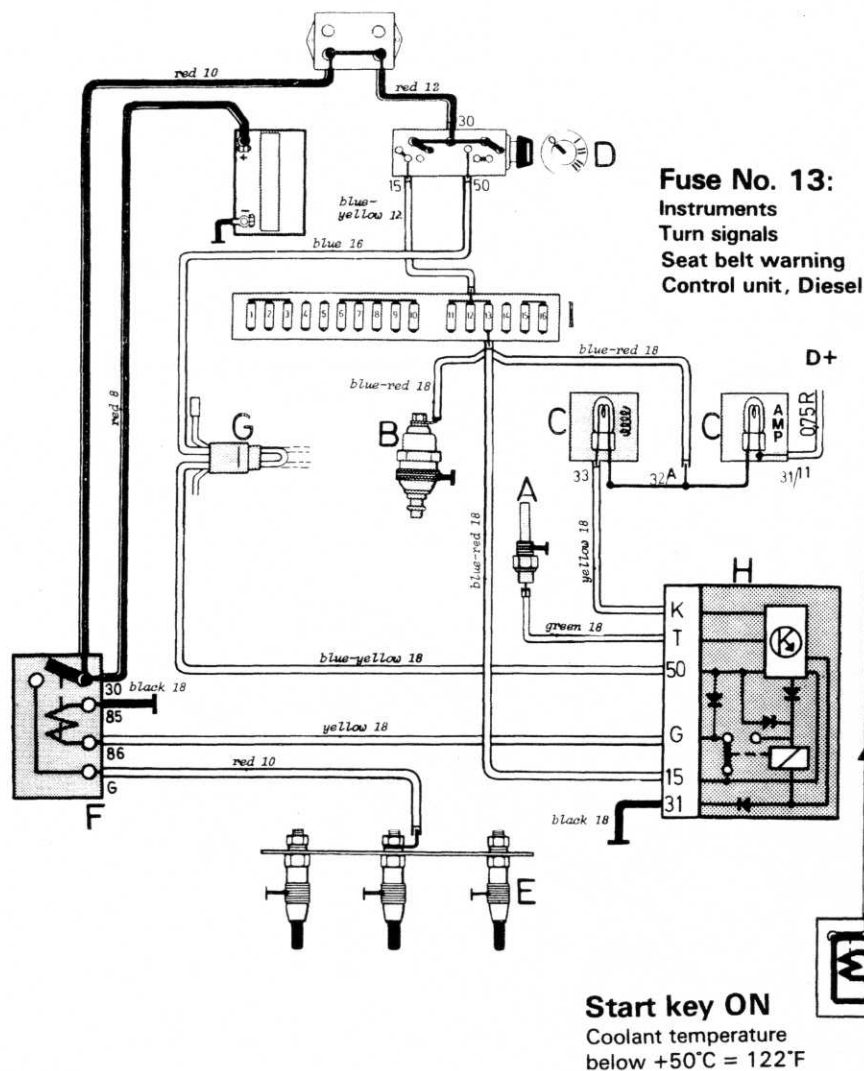
Gears connected, starter motor
contacts close, starter operates.



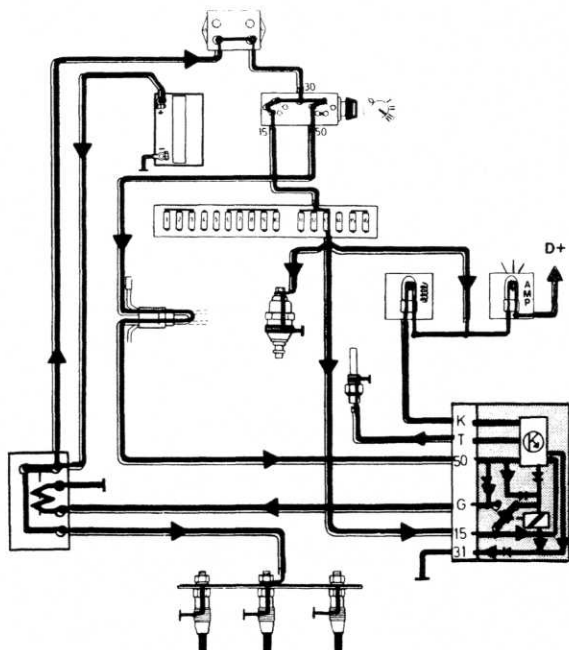
Ignition coil voltage supplied from
starter motor terminal 16.



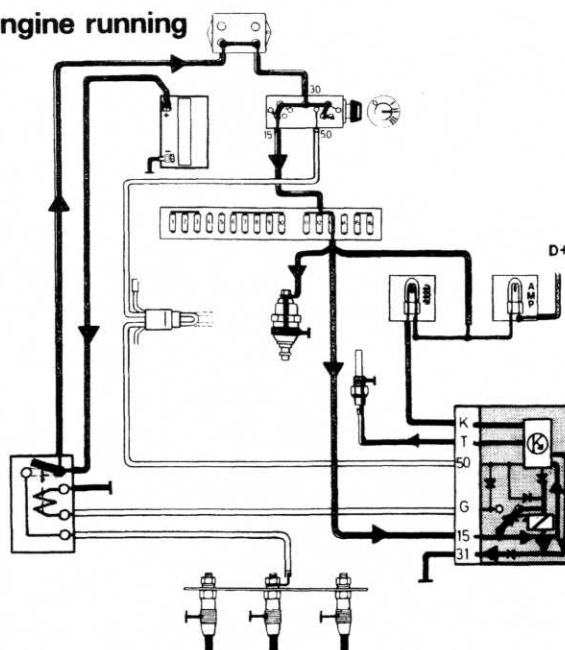
Glow plug system Diesel

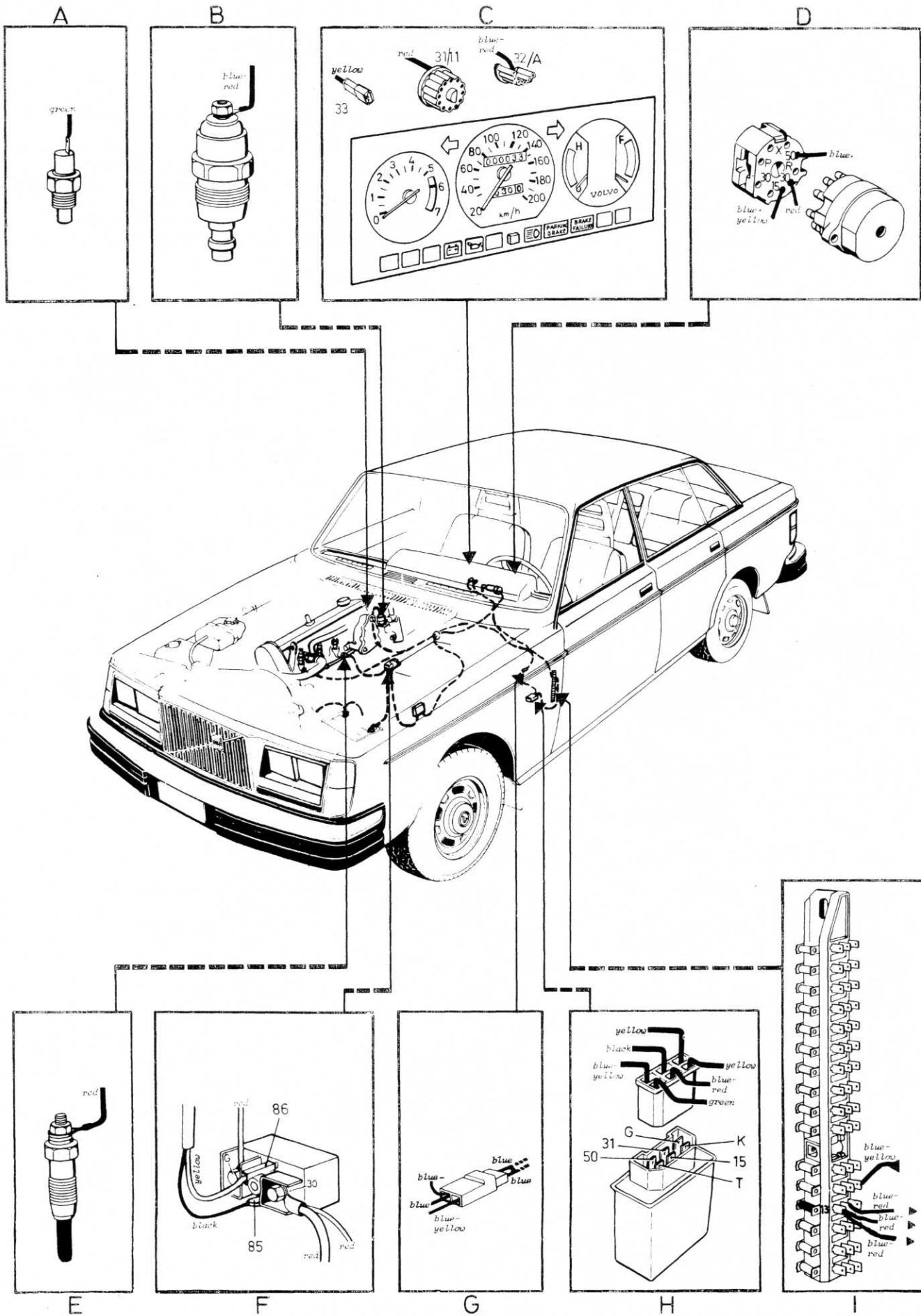


Starter motor operating



Engine running

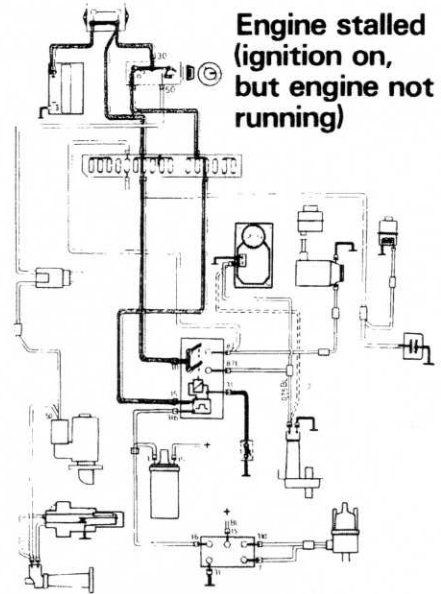
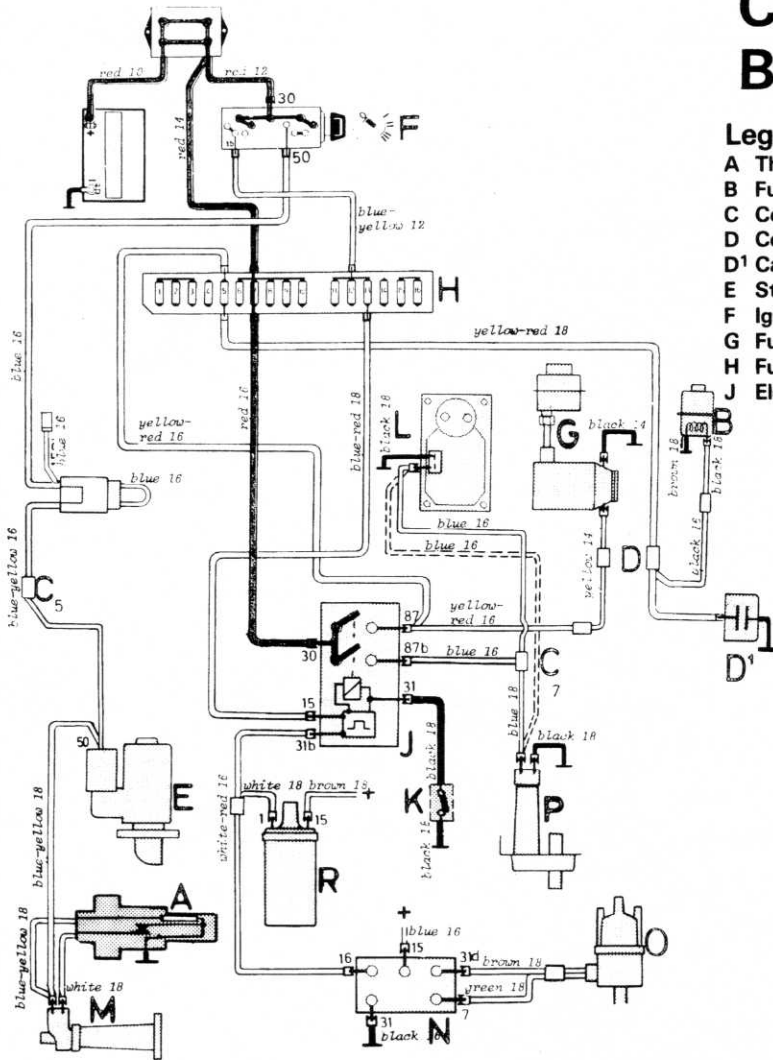




CI fuel injection system B21F, B23E

Legend:

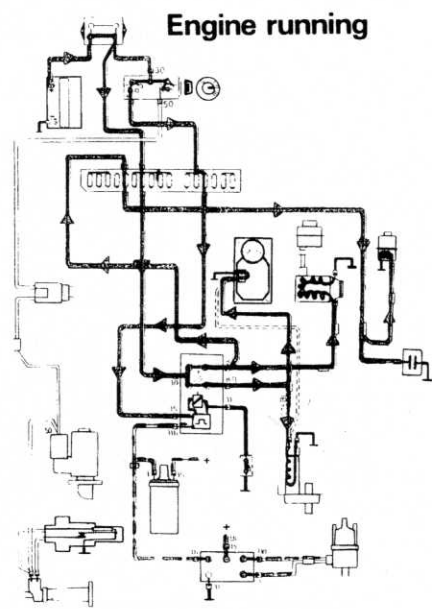
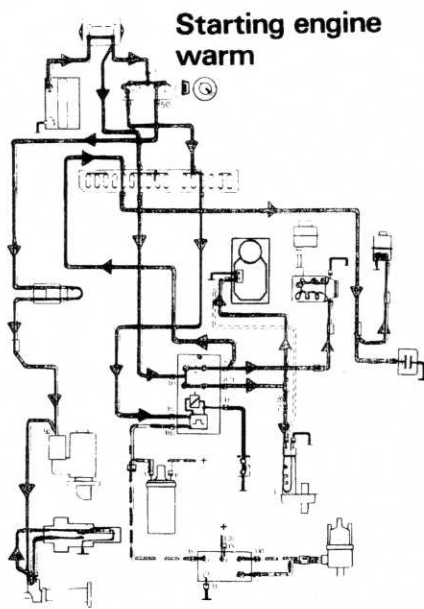
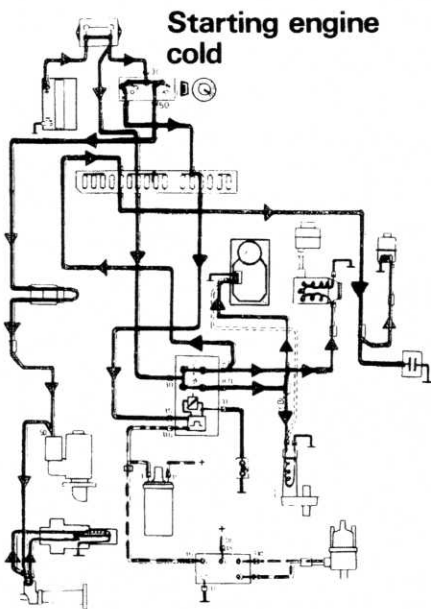
- | | |
|------------------------------|---|
| A Thermal time switch | K Overload protection switch (Turbo only) |
| B Fuel feed pump (tank pump) | L Control pressure regulator |
| C Connector | M Cold start injector |
| D Connector | N Ignition electronic module |
| D ¹ Capacitor | O Distributor |
| 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 | |

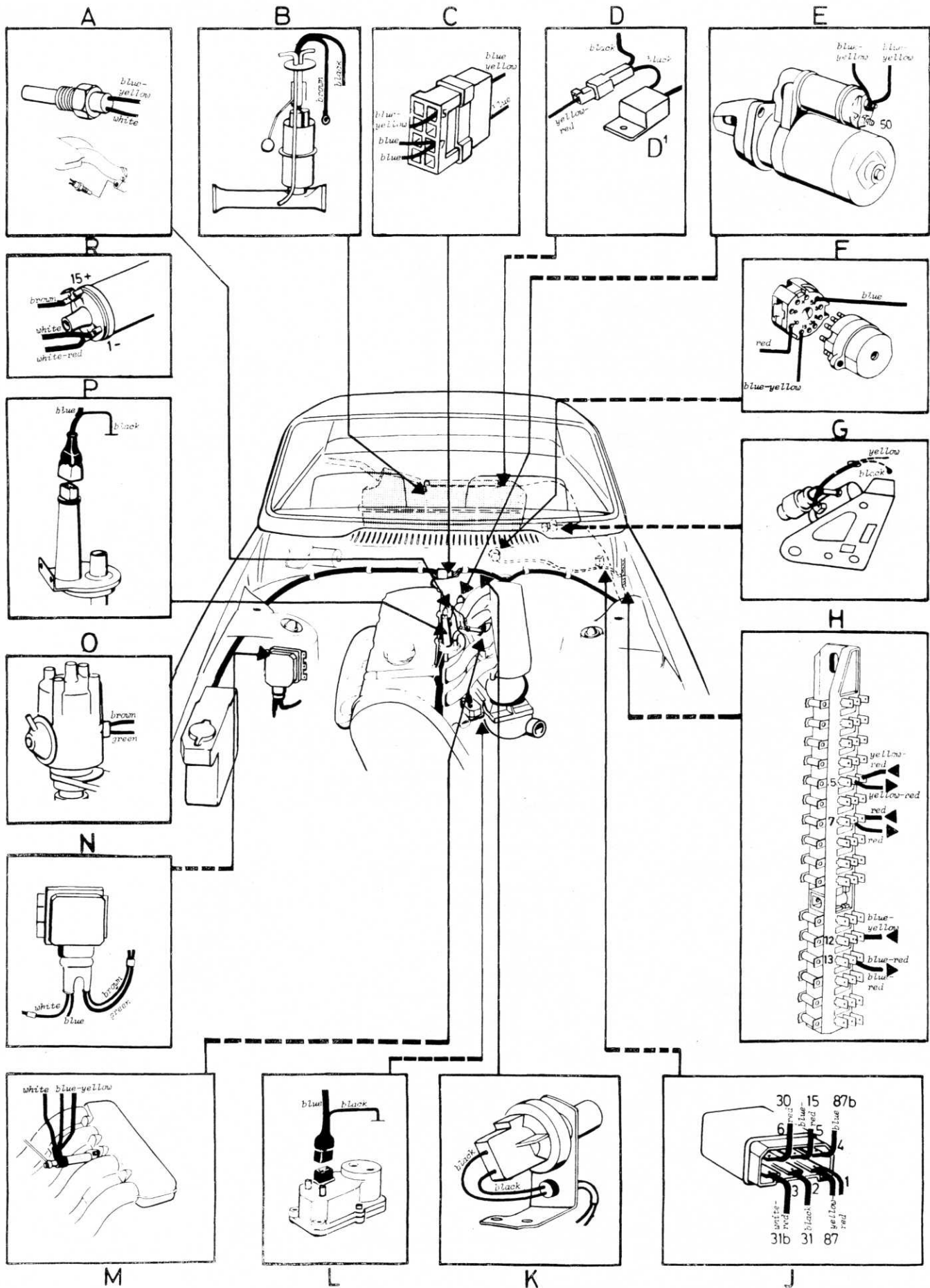


Fuse No. 5:
Fuel feed pump
(tank pump)

Fuse No. 7:
Fuel pump
(main pump)

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

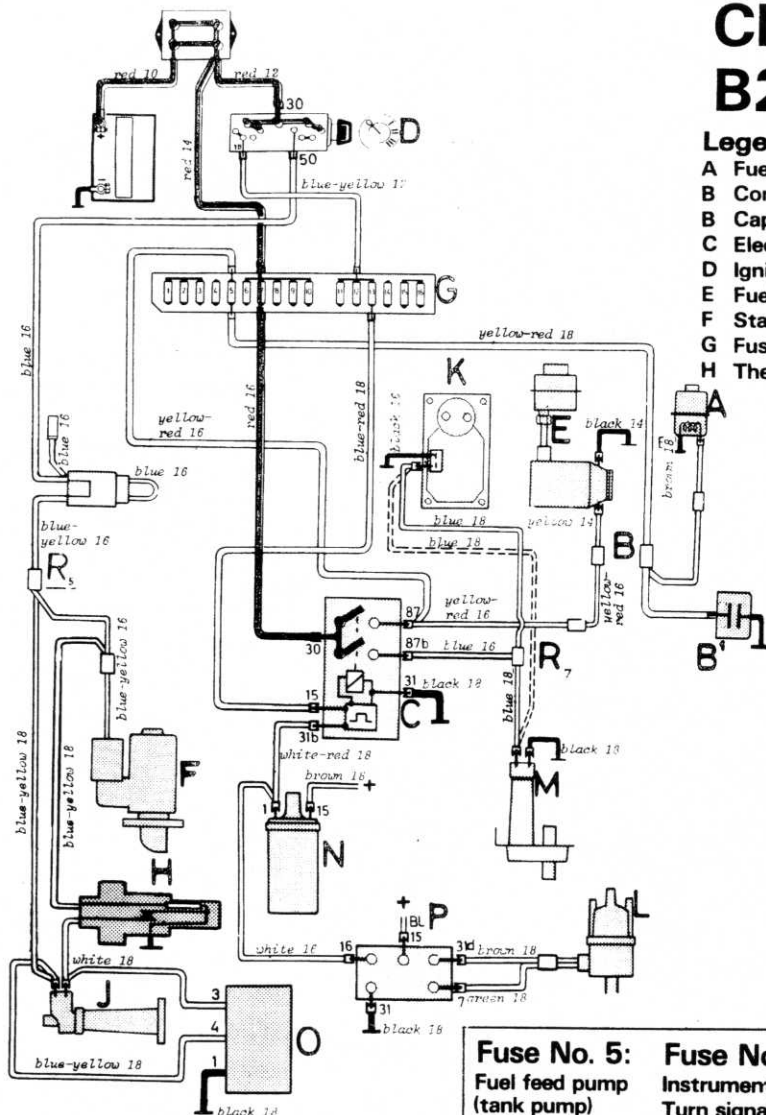




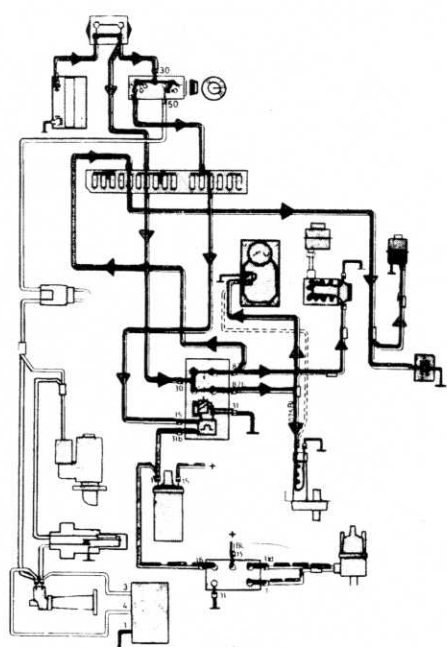
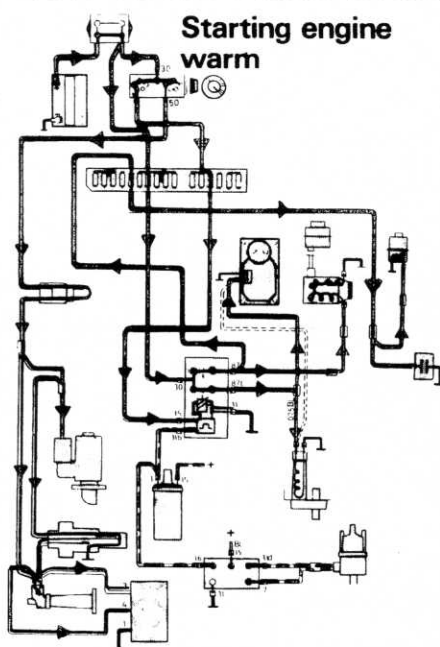
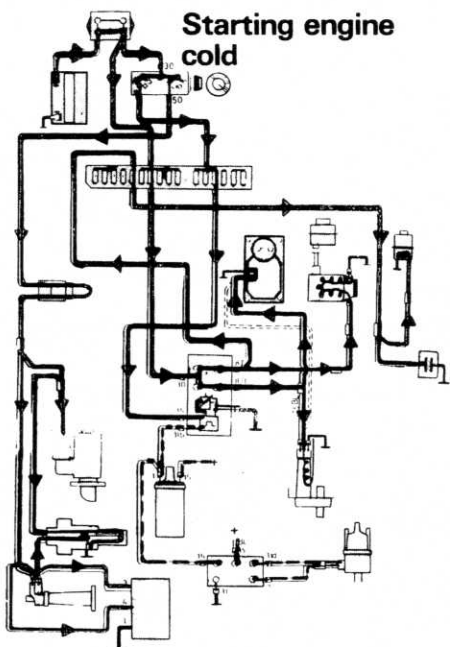
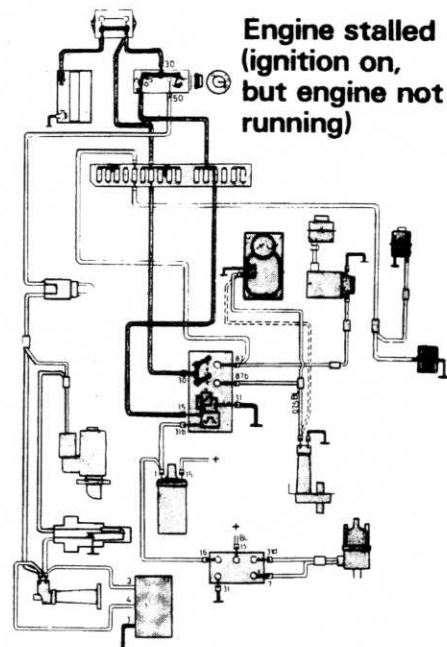
CI fuel injection system B28F

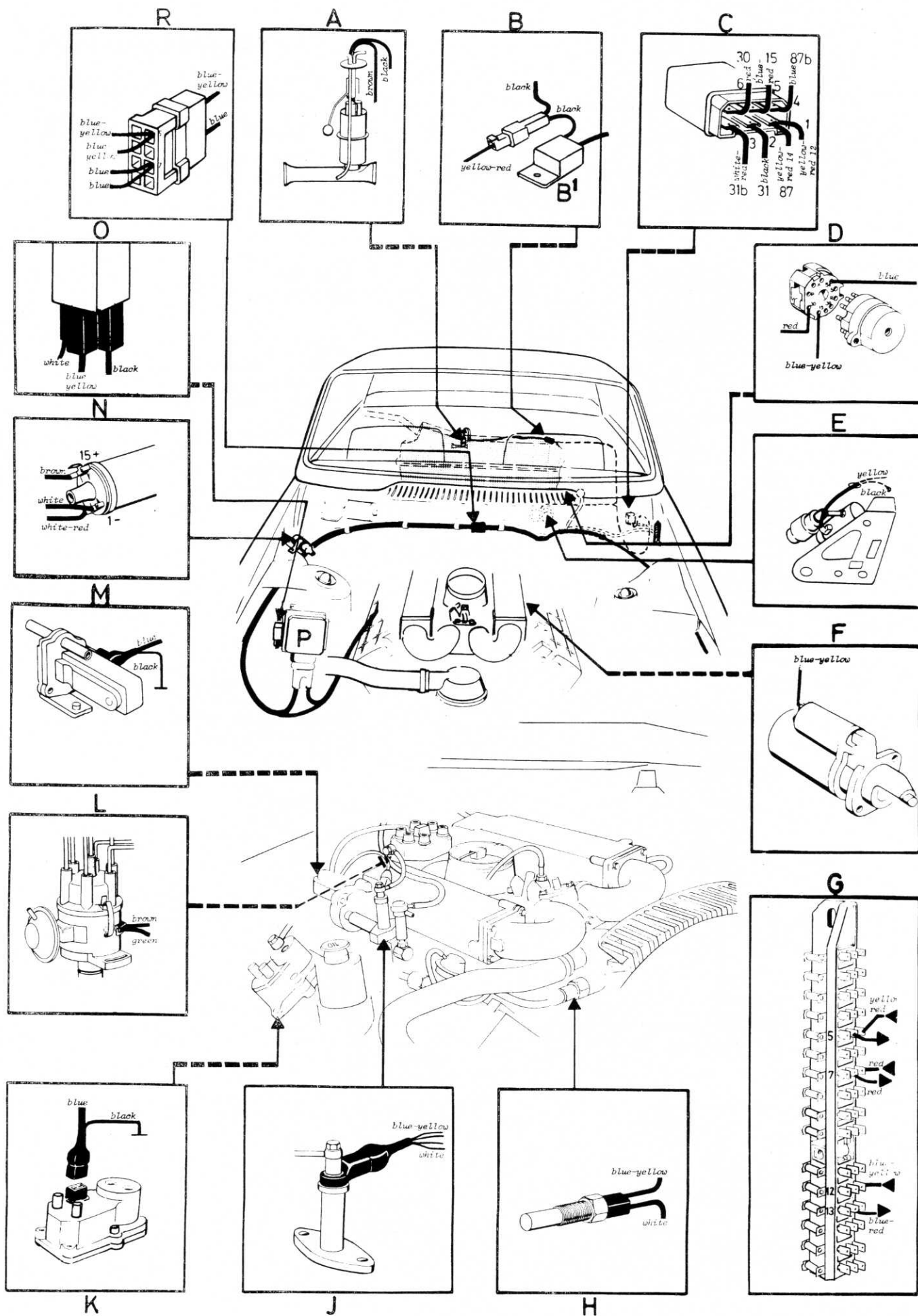
Legend:

- | | |
|------------------------------|------------------------------|
| 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) | |

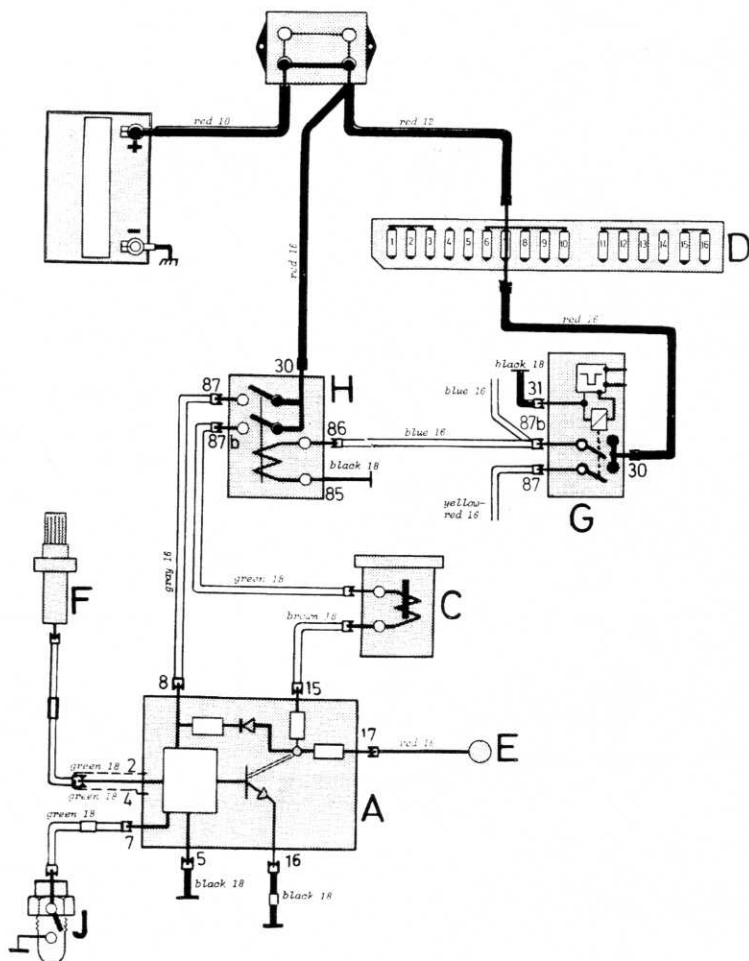




Oxygen sensor feedback system (Lambda-sond) B21F

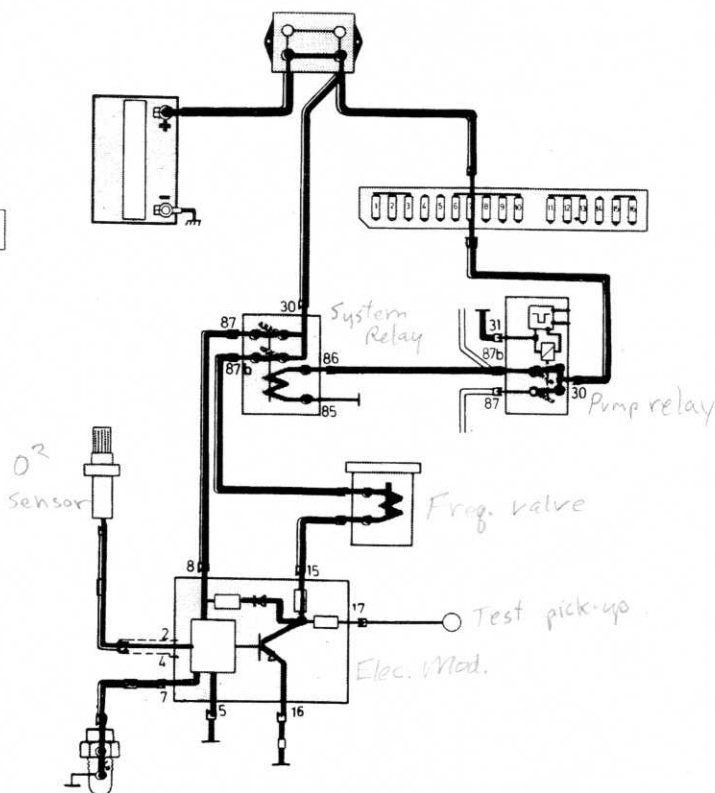
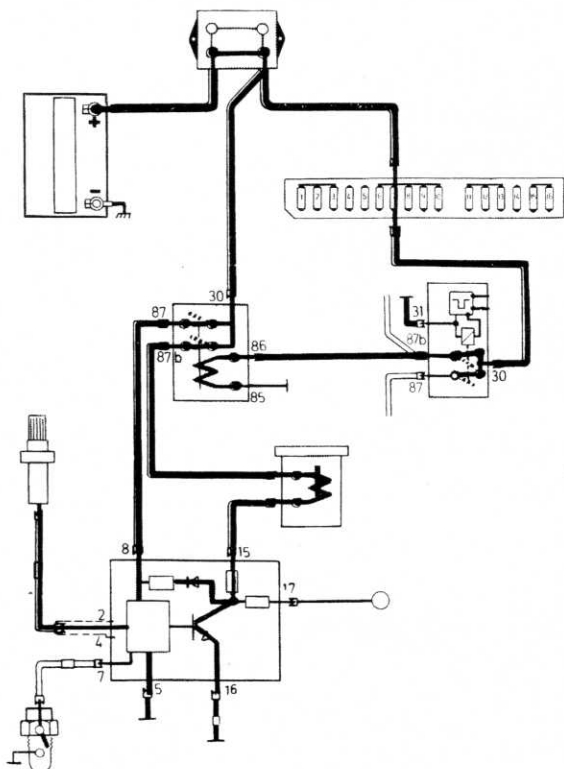
Fuse No. 7:
Fuel pump (main pump)

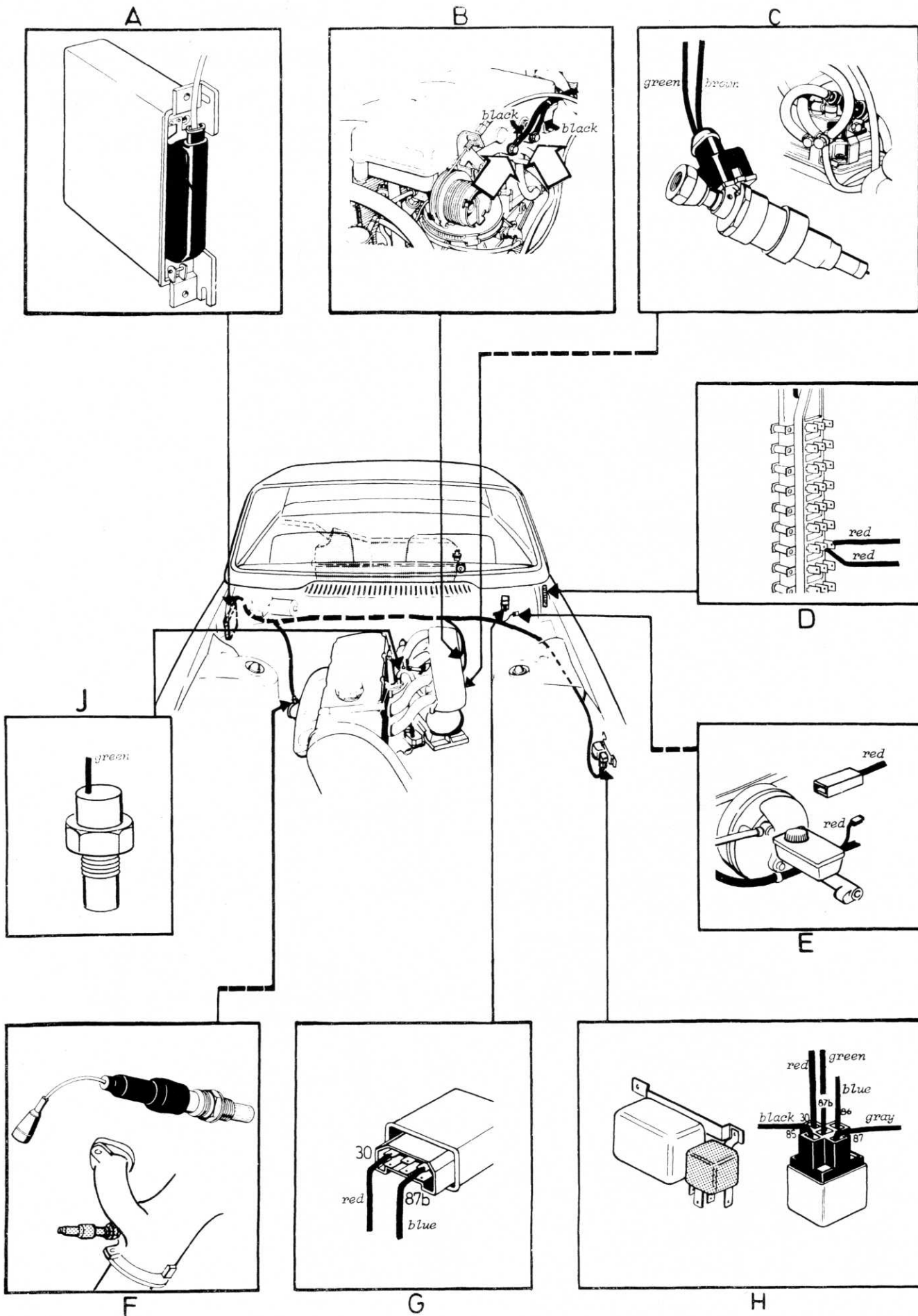
Legend:
A Electronic module
B Ground points
C Frequency valve
D Fuse box
E Test instrument pick-up point
F Oxygen sensor
G Electronic pump relay
H System relay



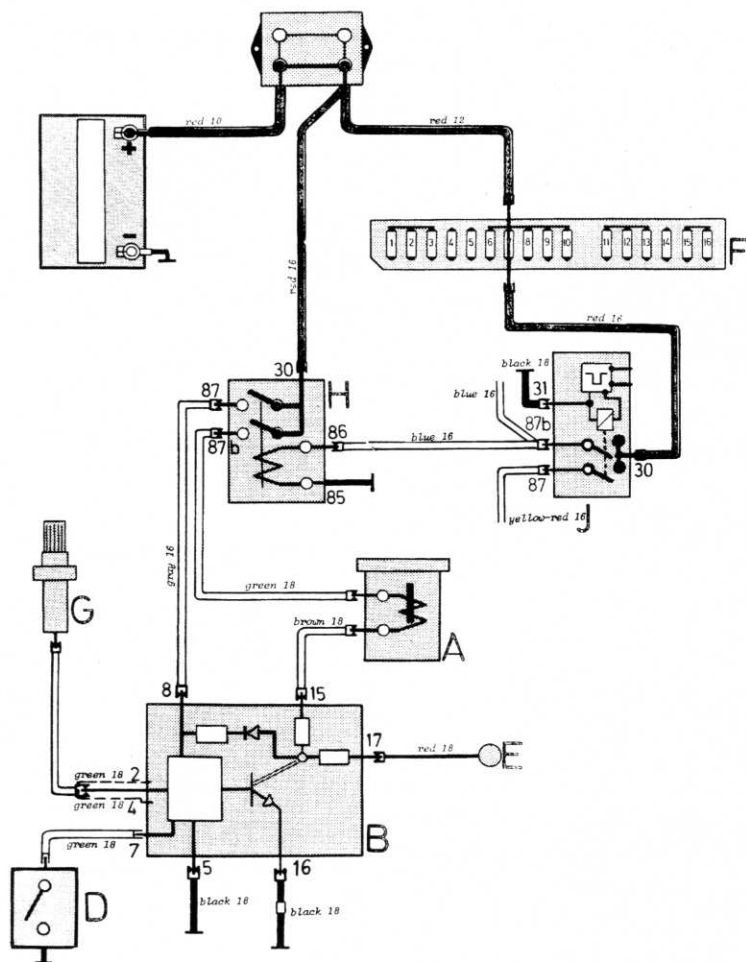
Warm engine.
System operates on
duty cycle, regulating
air/fuel mixture.

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)

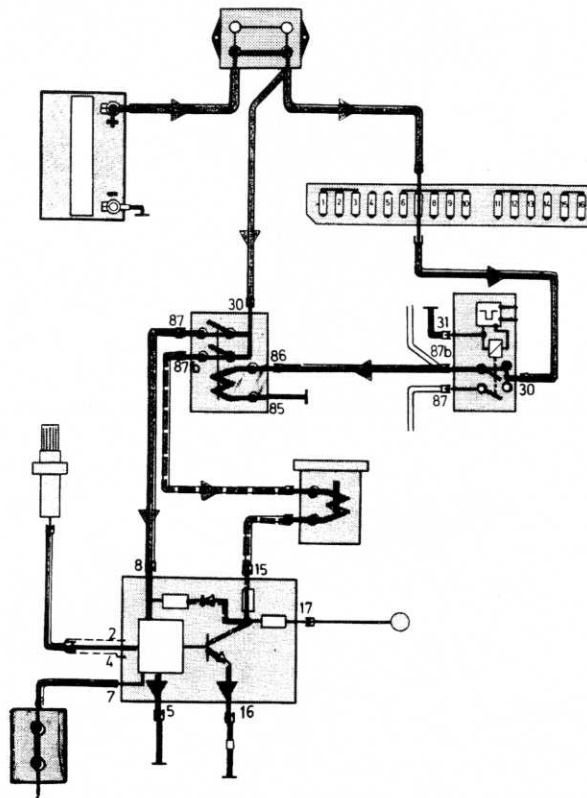
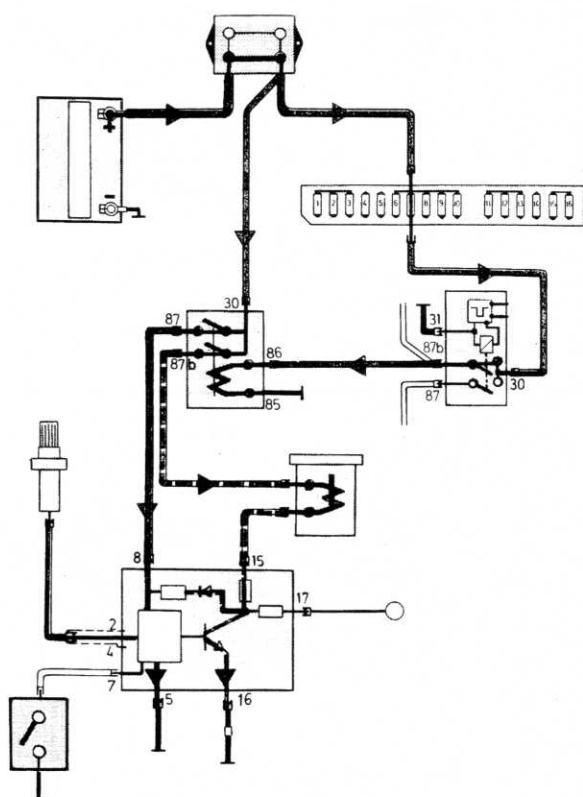
Legend:

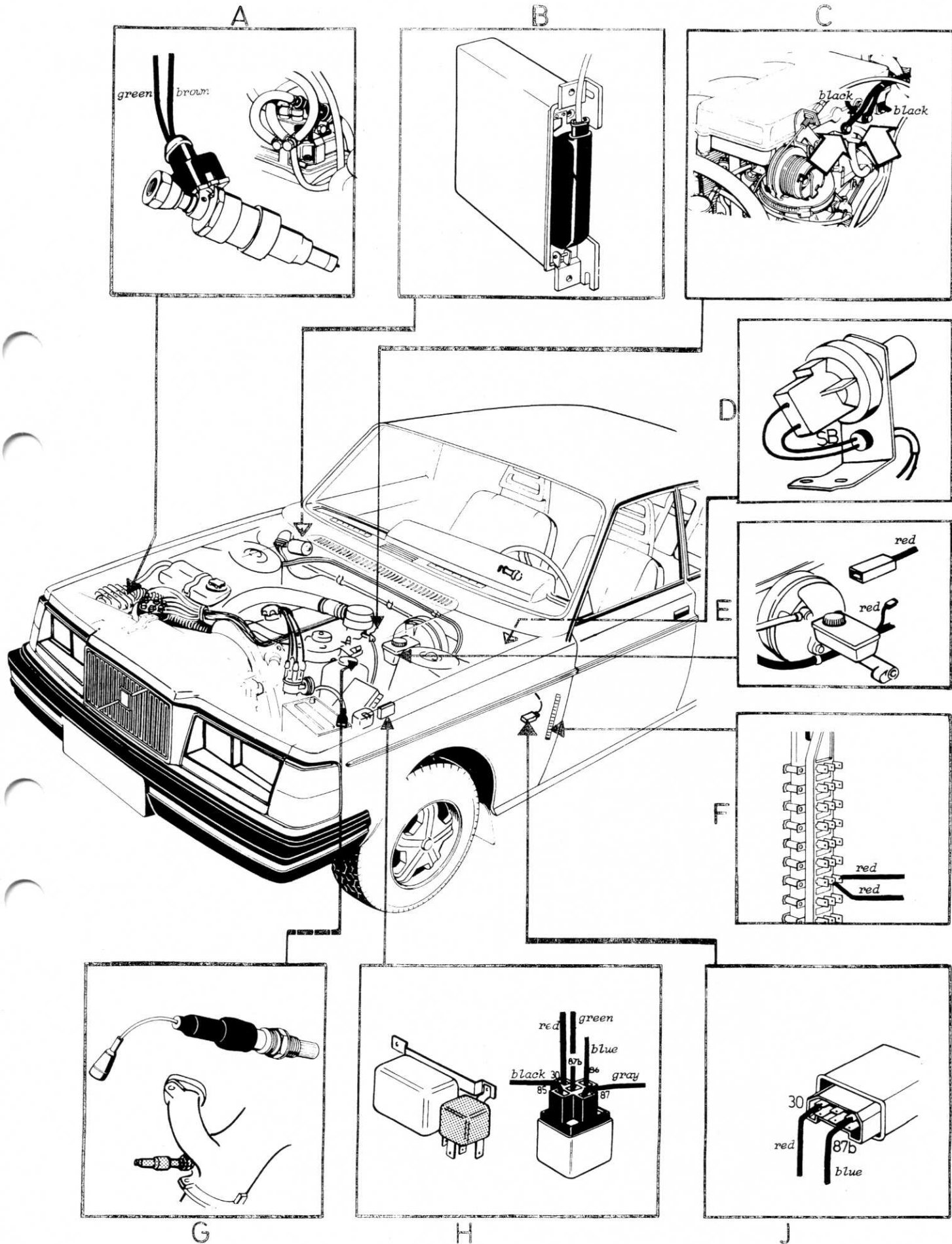
- A Frequency valve
- B Electronic module
- C Ground points
- D Pressure switch
- E Test instrument pick-up point
- F Fuse box
- G Oxygen sensor
- H System relay
- J Electronic pump relay

Acceleration.

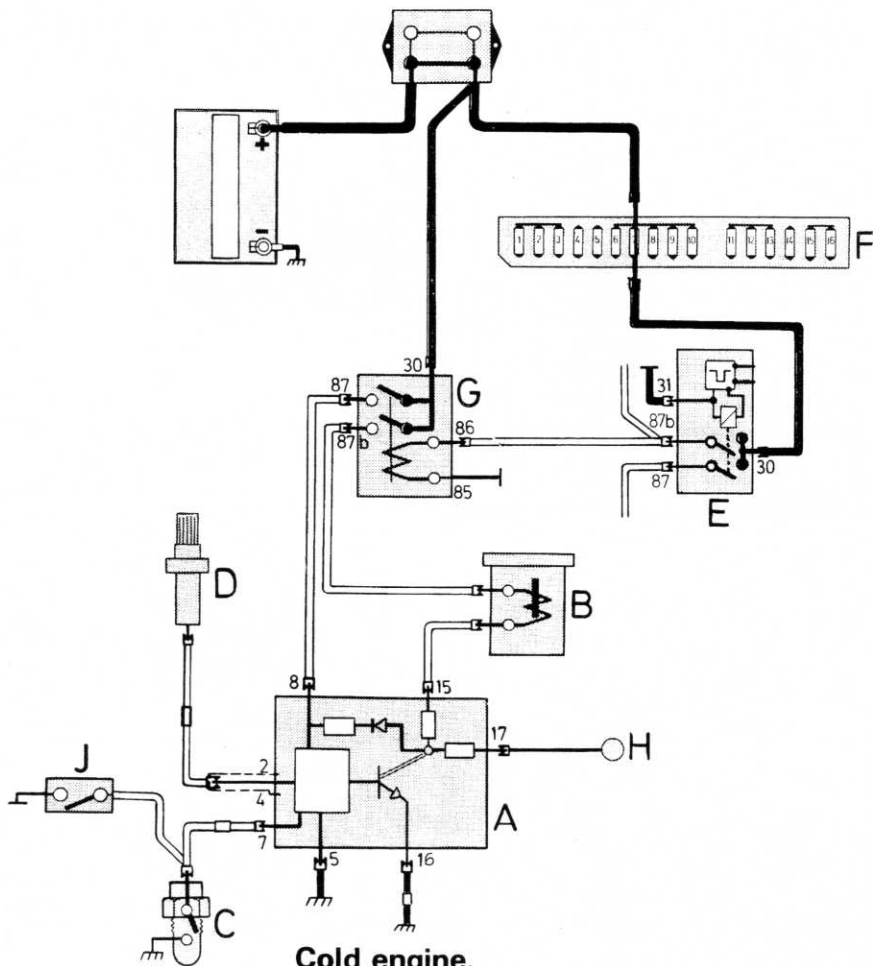
Increasing compressor discharge pressure causes pressure switch to ground terminal 7 of Electronic module. This will cause Lambda system to operate on special fixed cycle and provide enrichment.

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:

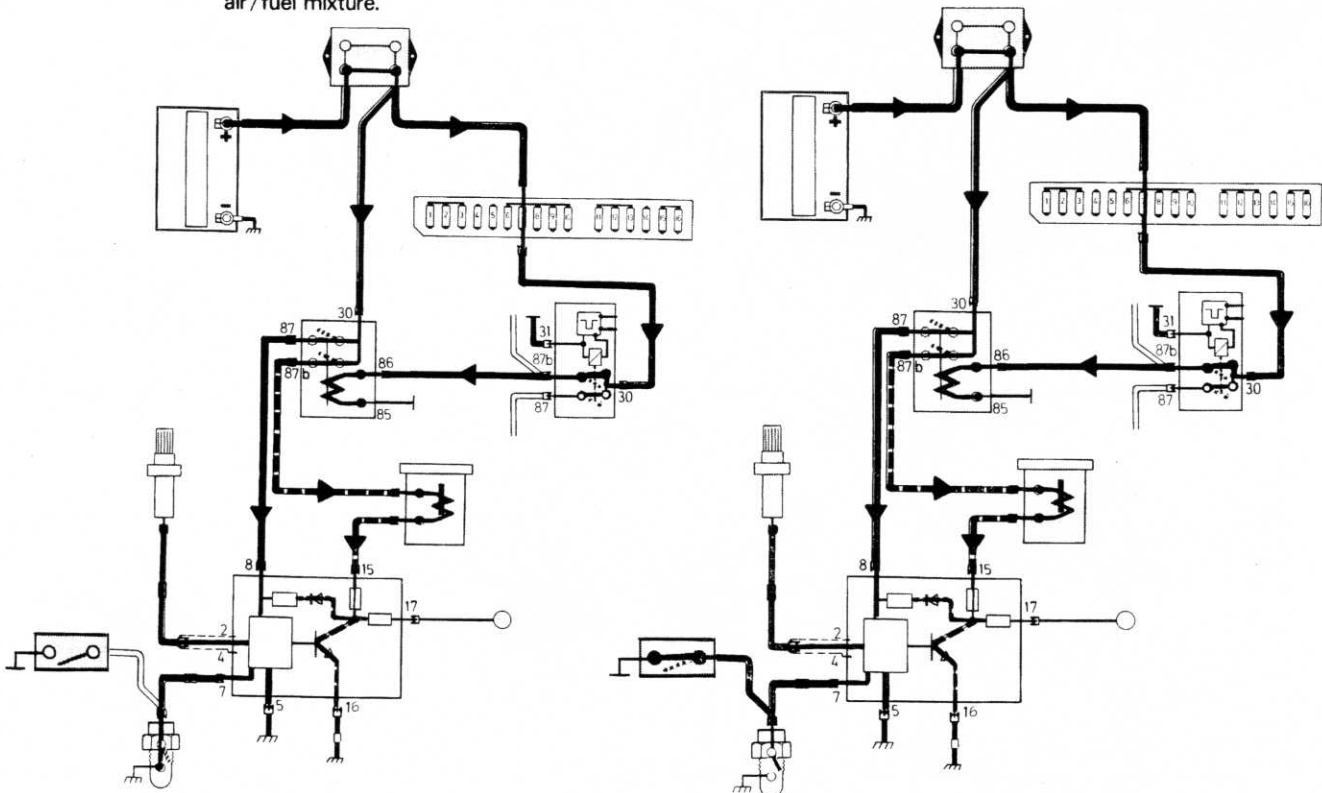
Fuel pump (main pump)

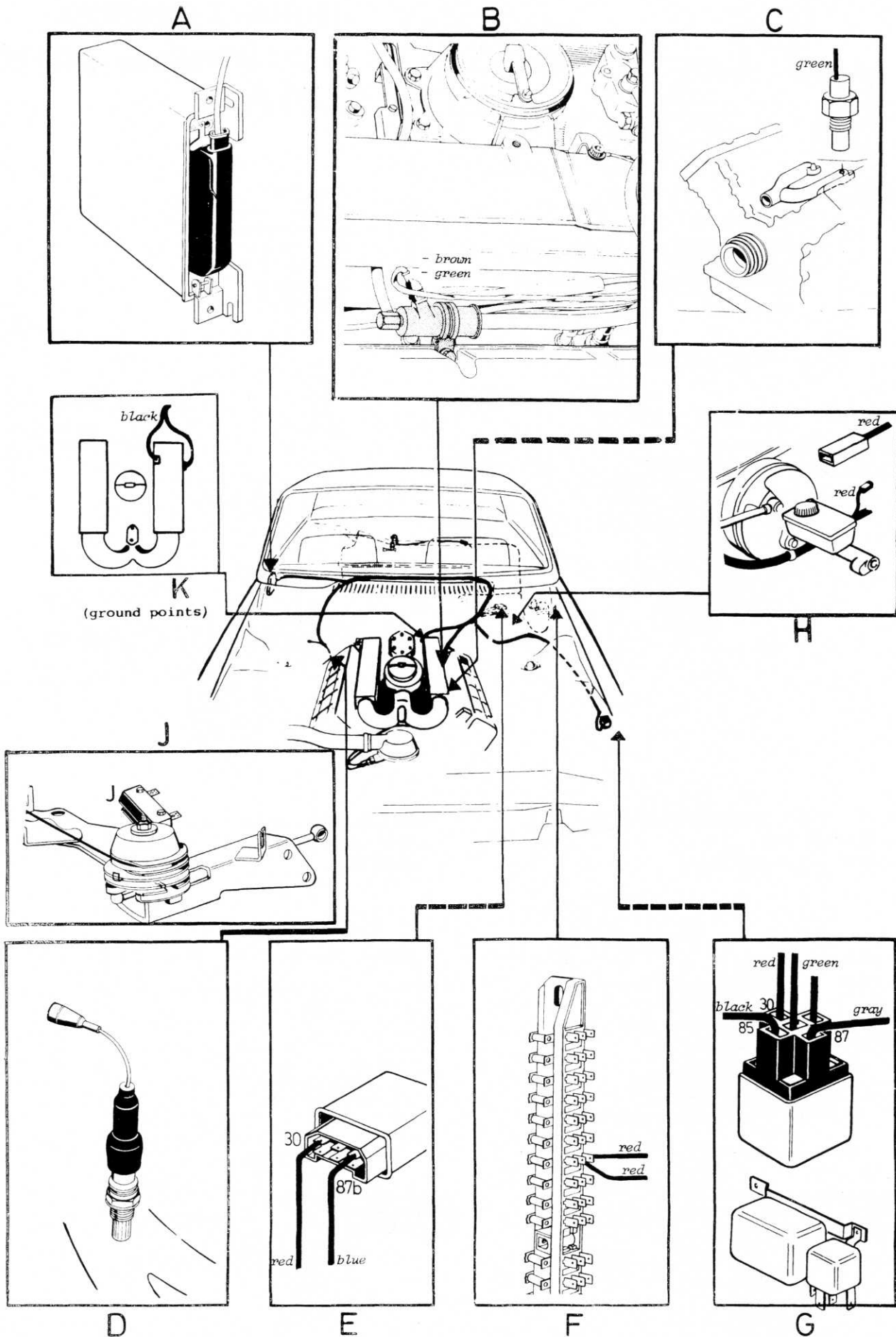
Legend:

- 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.

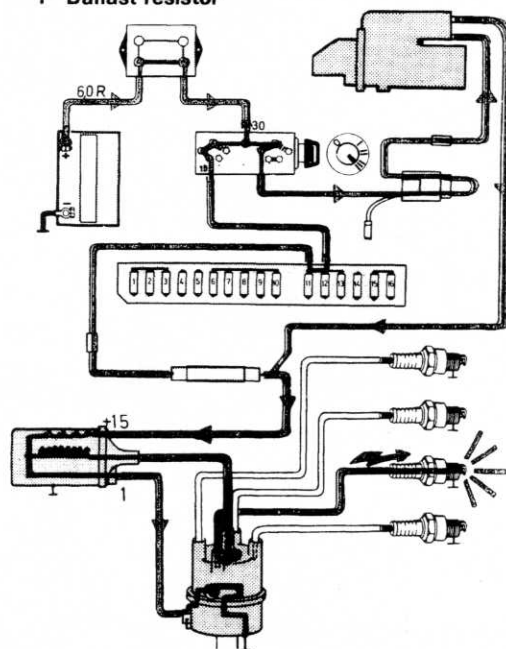
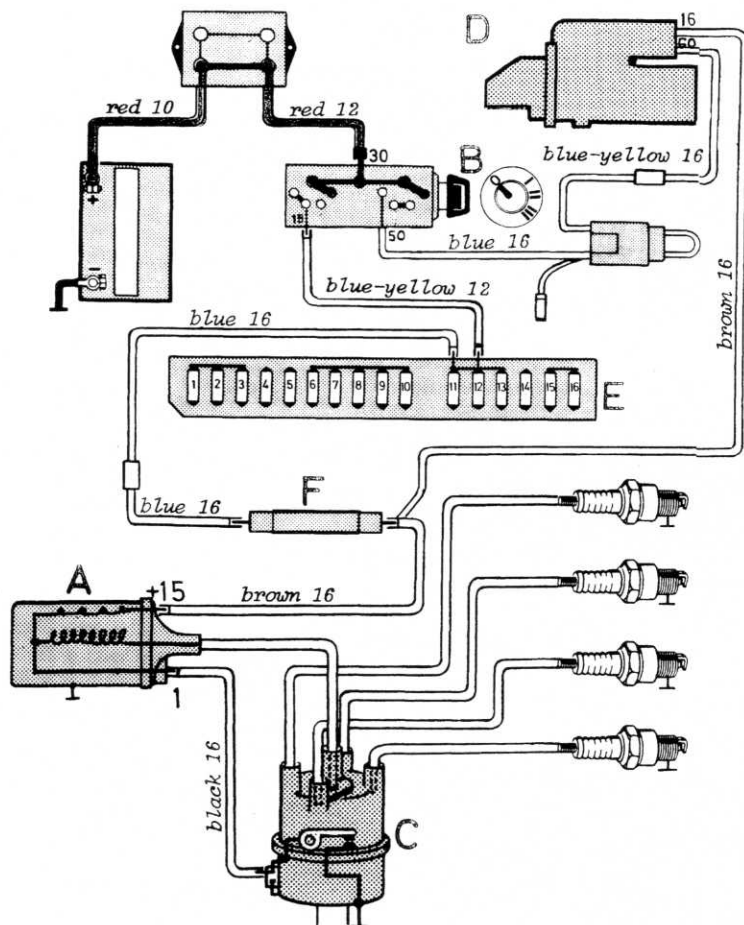




Ignition system with breaker points, B21A

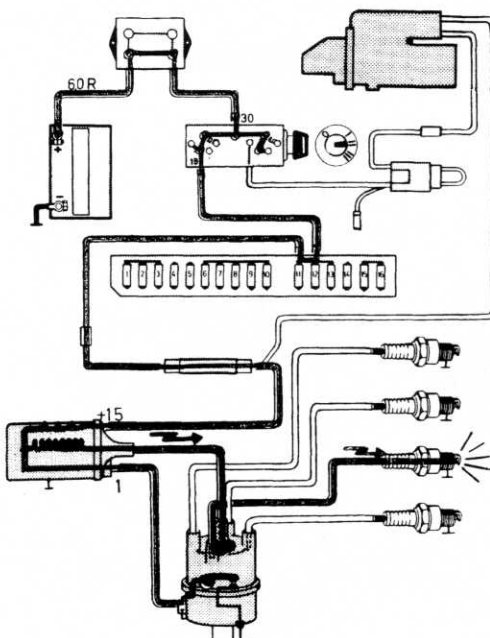
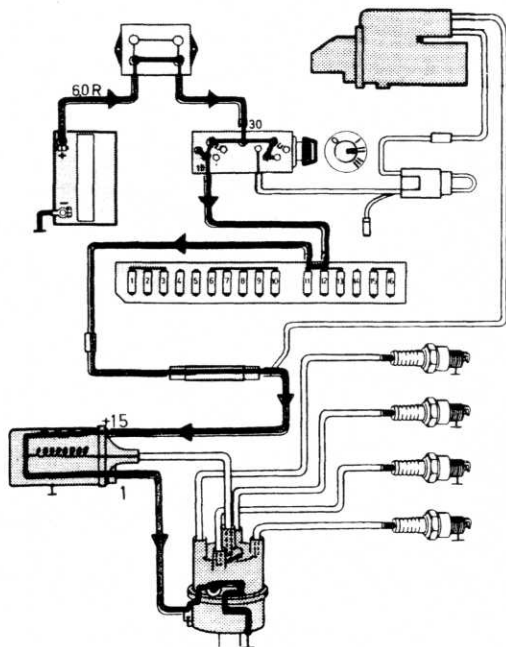
Legend:

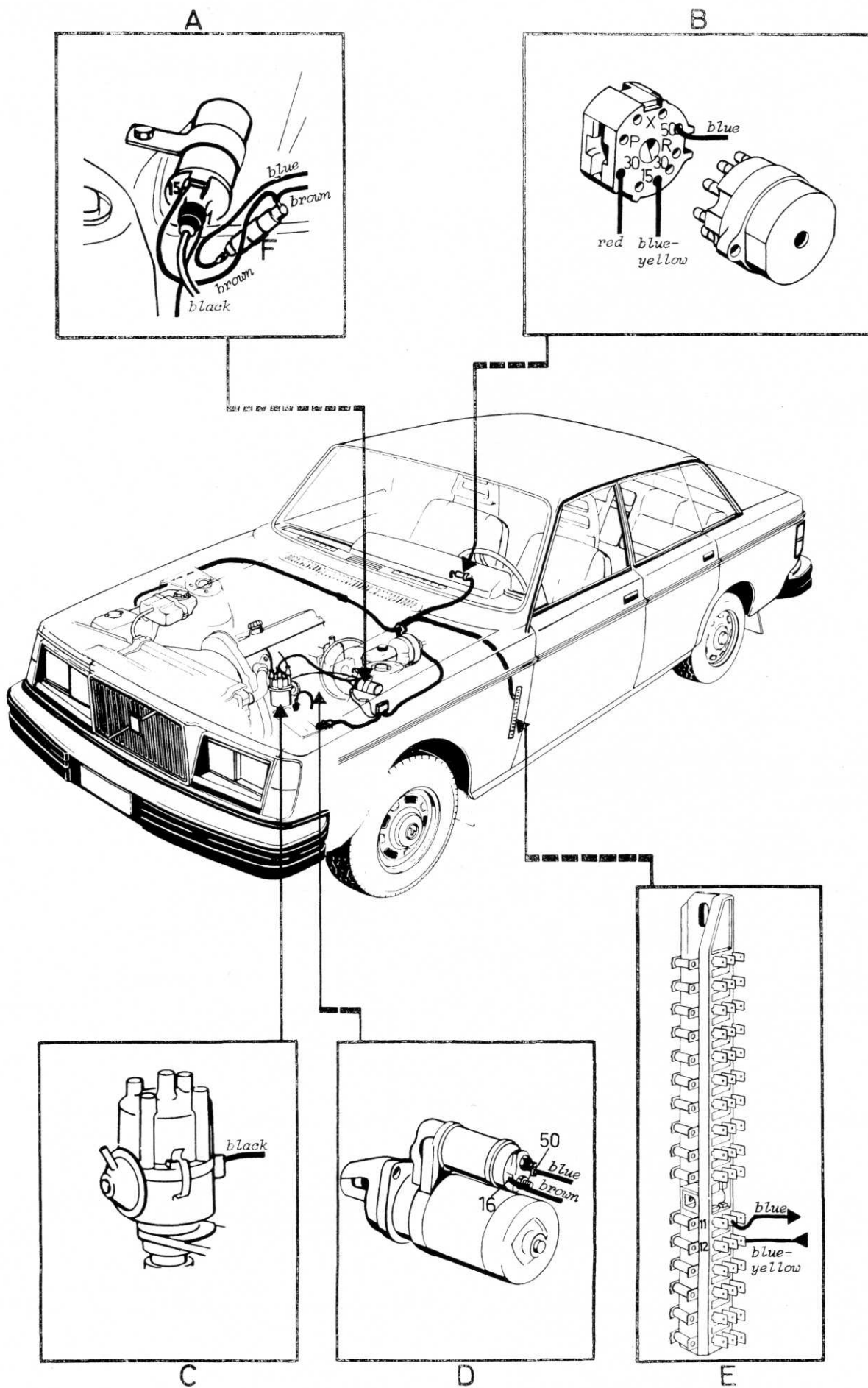
- A Ignition coil
- B Ignition switch
- C Distributor
- D Starter motor
- E Fuse box
- F Ballast resistor



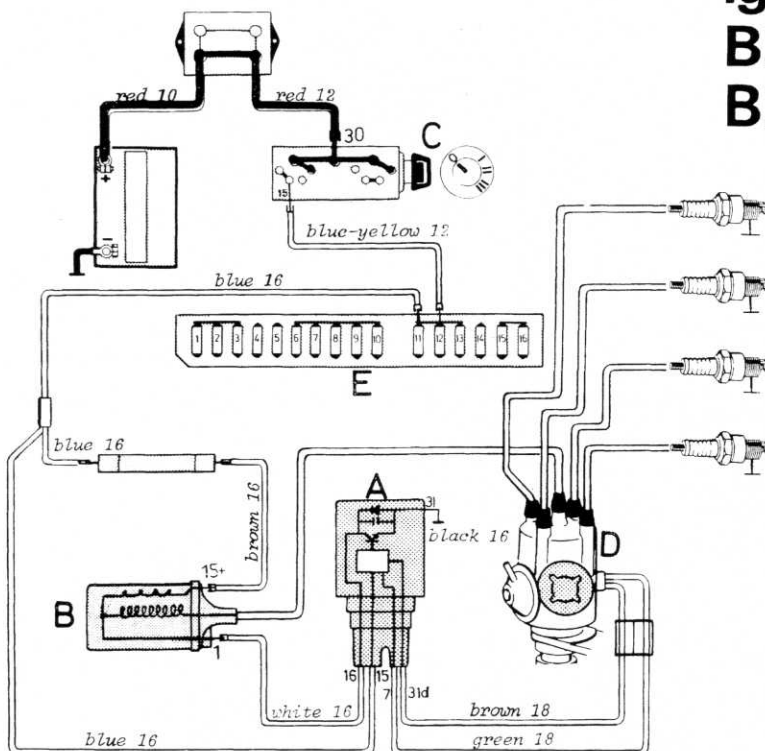
Current flows through breaker points
and ignition coil.
Ignition coil is energized.

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





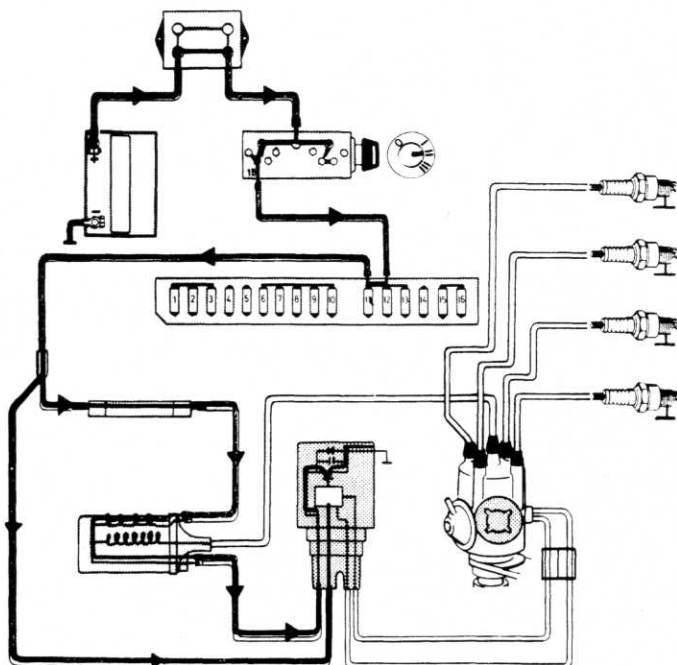
Breakerless electronic ignition system B21F and B21F-Turbo B23E/Canada



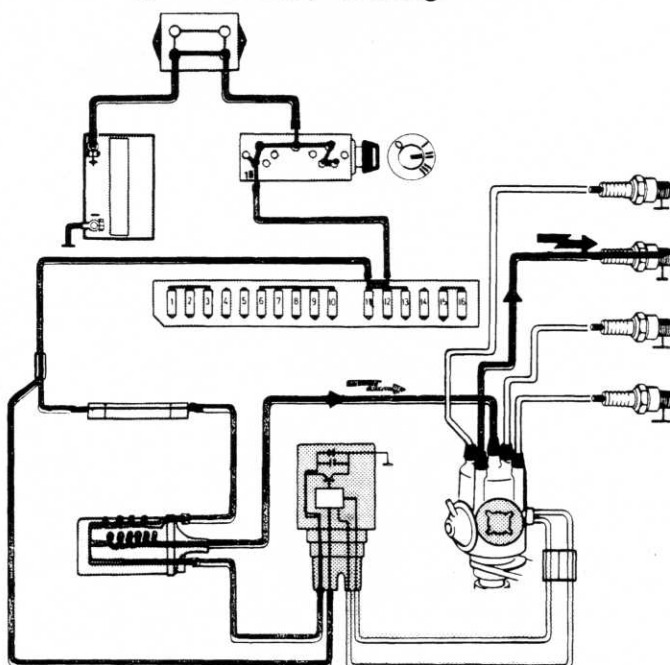
Legend:

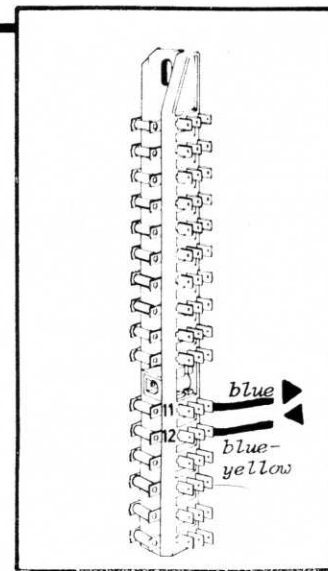
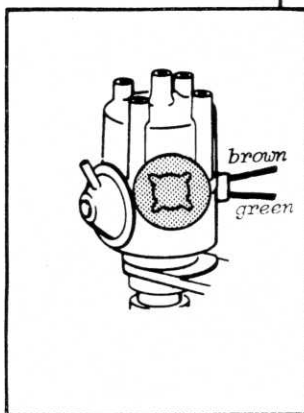
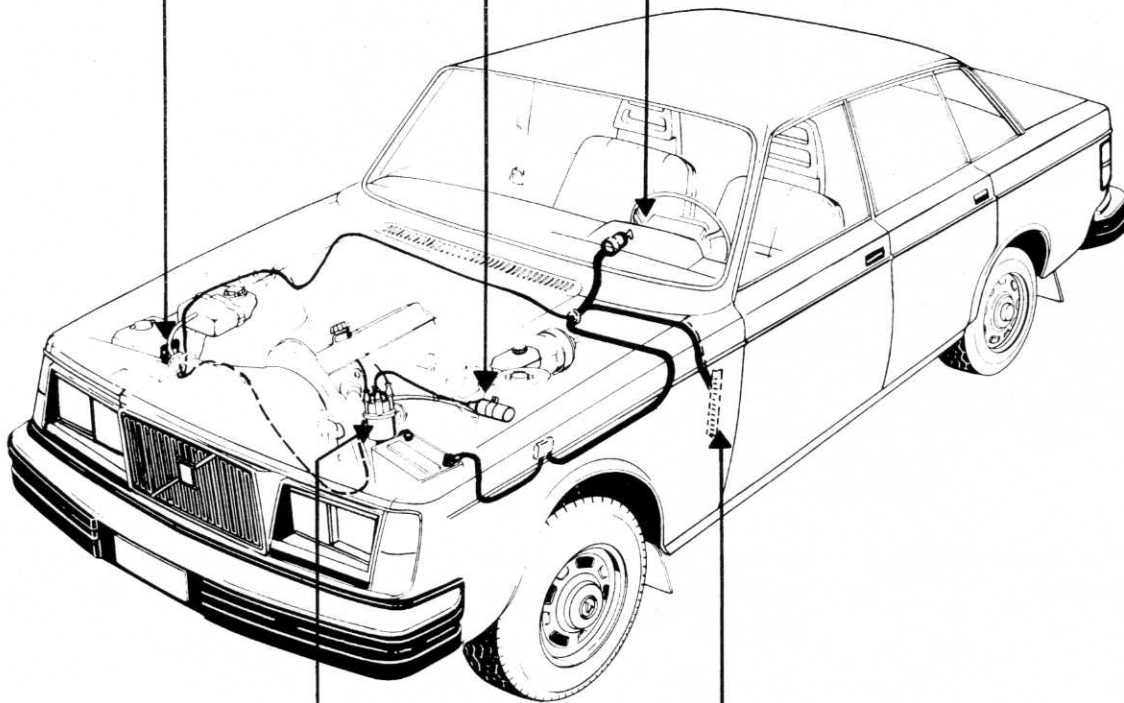
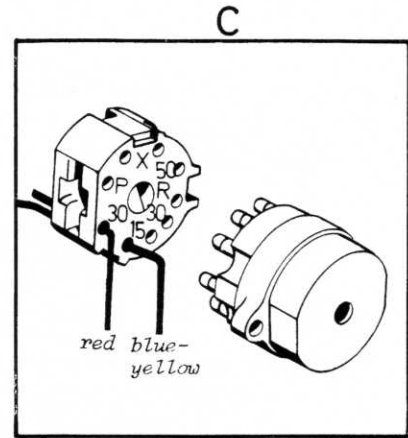
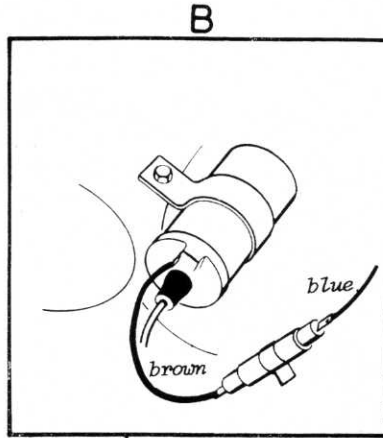
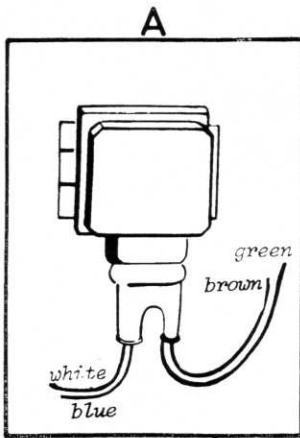
- A Ignition electronic module
- B Ignition coil with ballast resistor
- C Ignition switch
- D Distributor w. impulse sender
- E Fuse box

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

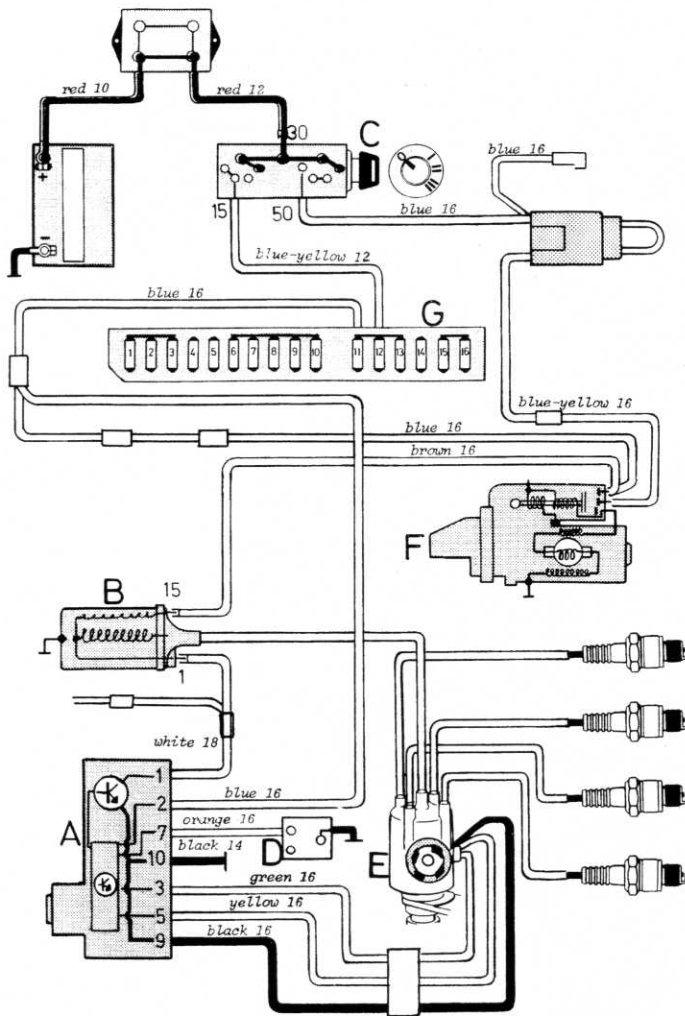


Electronic module interrupts current flow, ignition coil discharges (sparks) through secondary winding.





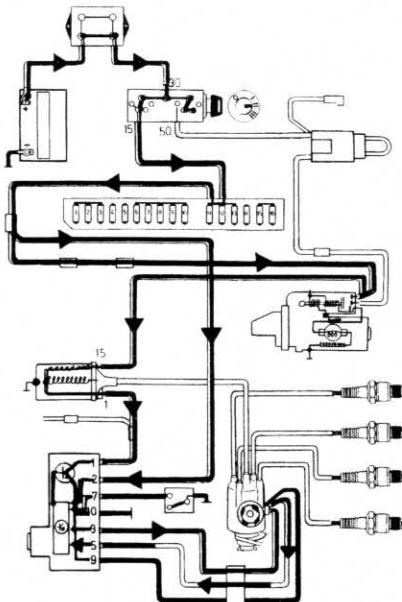
Computer controlled ignition system B21F-MPG



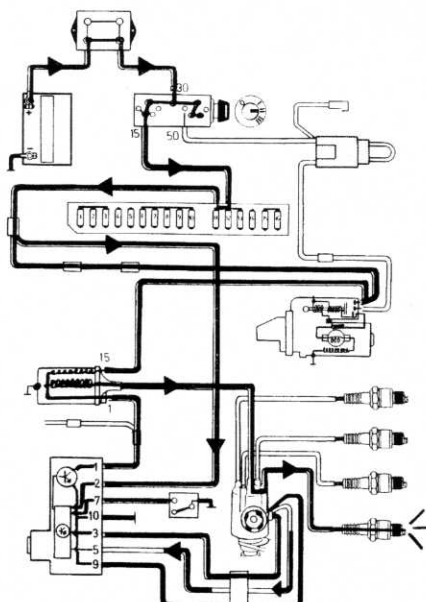
Legend:

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

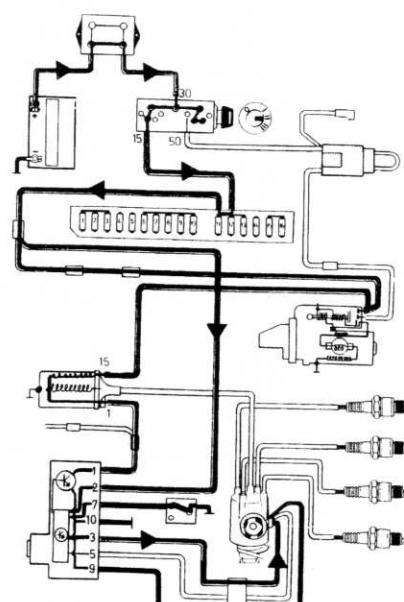
Ignition ON, engine running,
ignition coil being
energized.

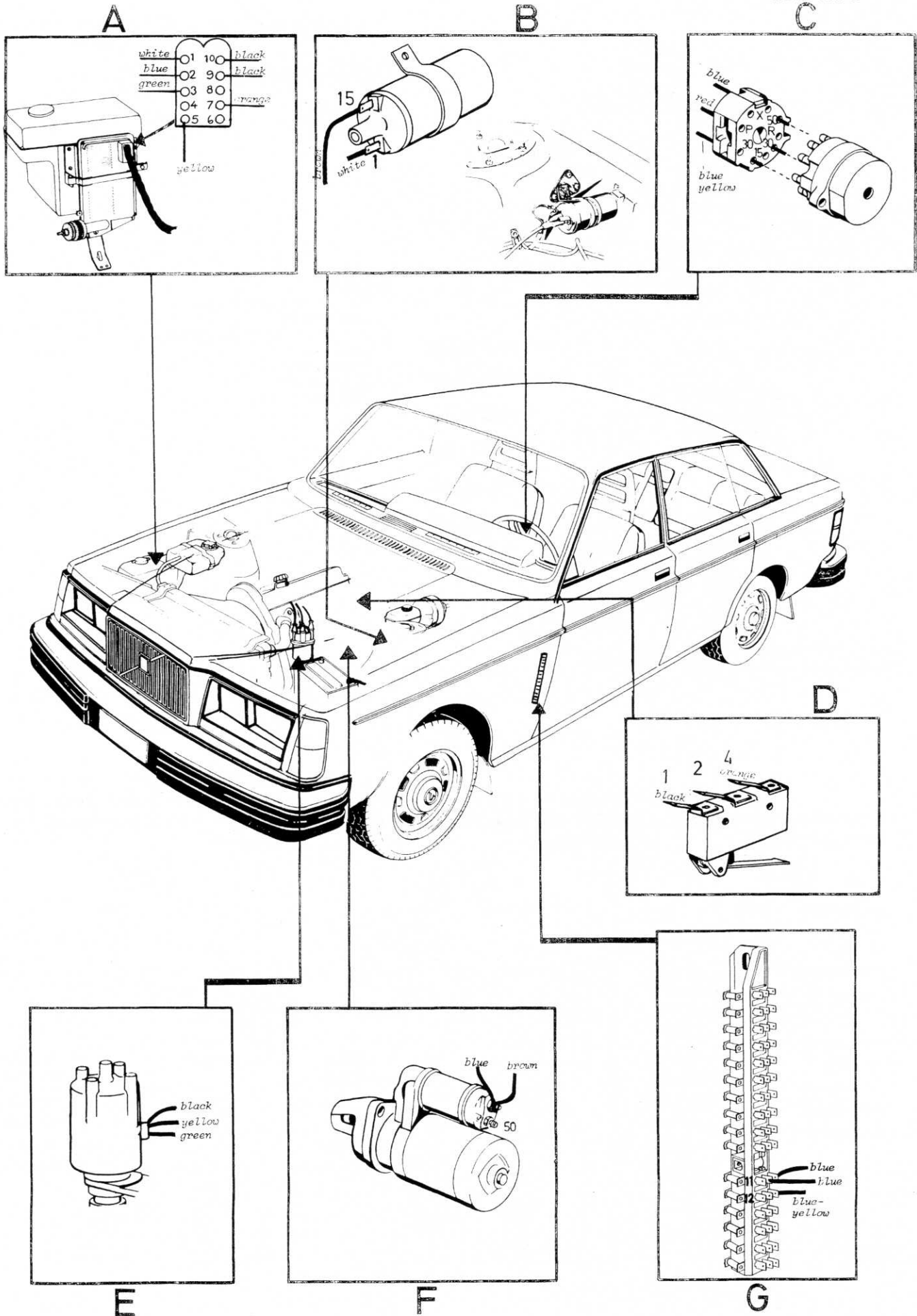


Ignition ON, engine running,
ignition coil discharges
(sparks).

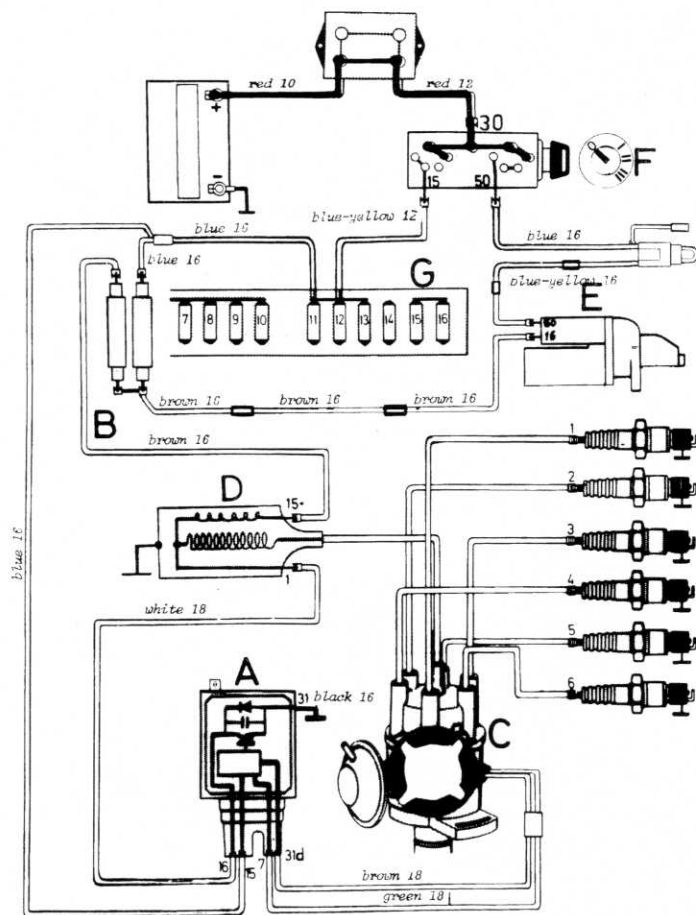


Ignition ON, engine stalled.
Micro switch grounds
circuit through Electronic
Control Unit.





Breakerless electronic ignition system B28F



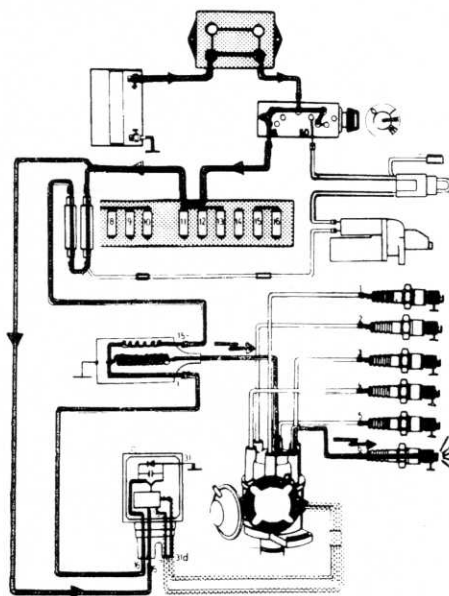
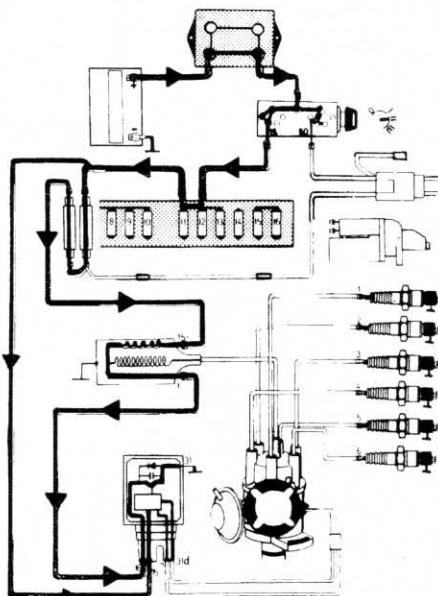
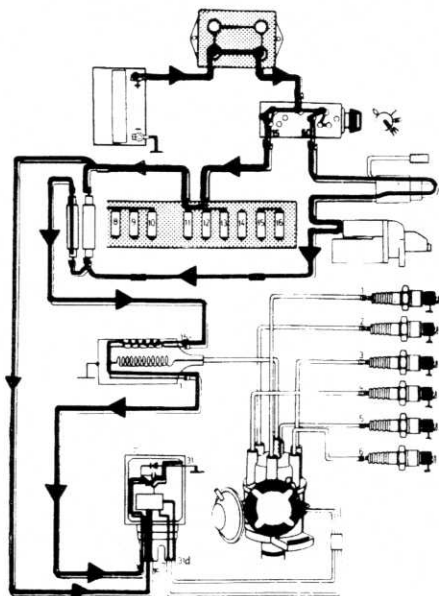
Legend:

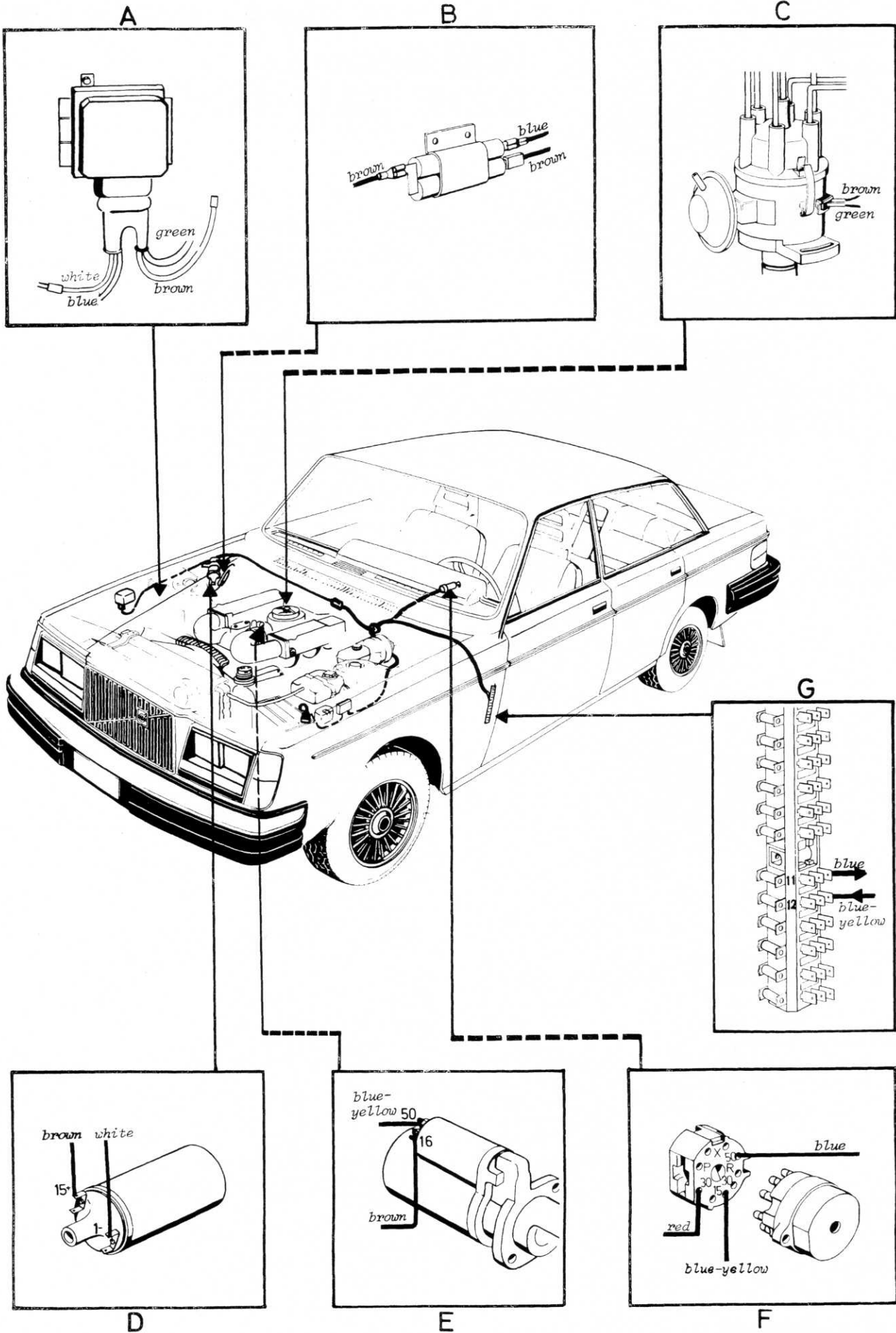
- A Ignition electronic module
- B Ballast resistor
- C Distributor w. impulse sender
- D Ignition coil
- E Starter motor
- F Ignition switch
- G Fuse box

Current flow while starter
motor is engaged.

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

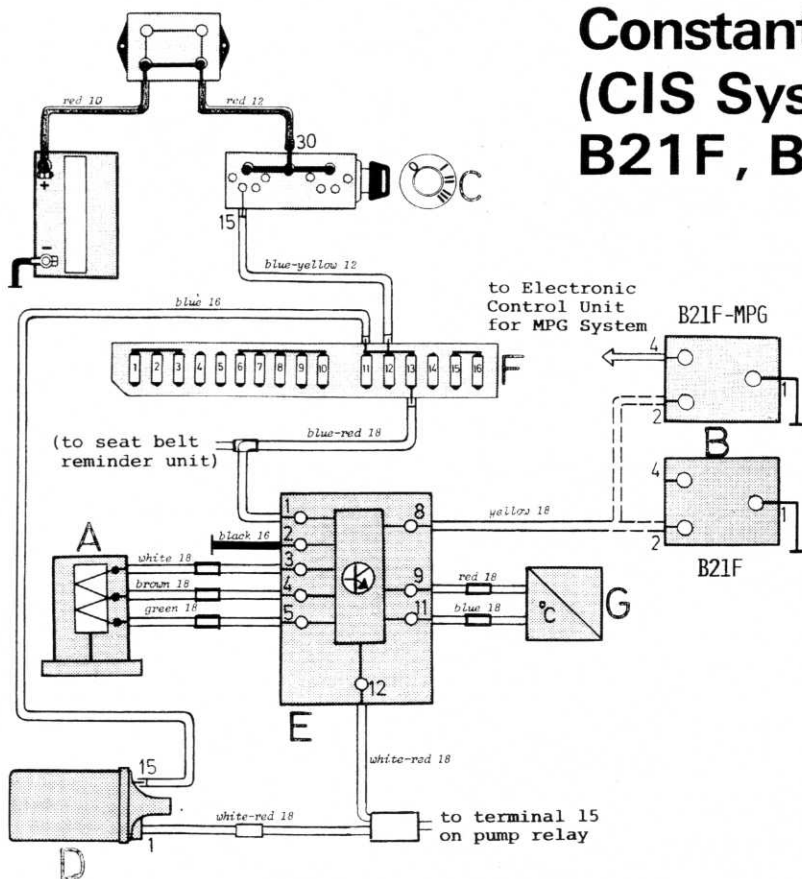
Electronic module interrupts
current flow, ignition discharges
(sparks) through secondary
winding.





Dad's Car

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

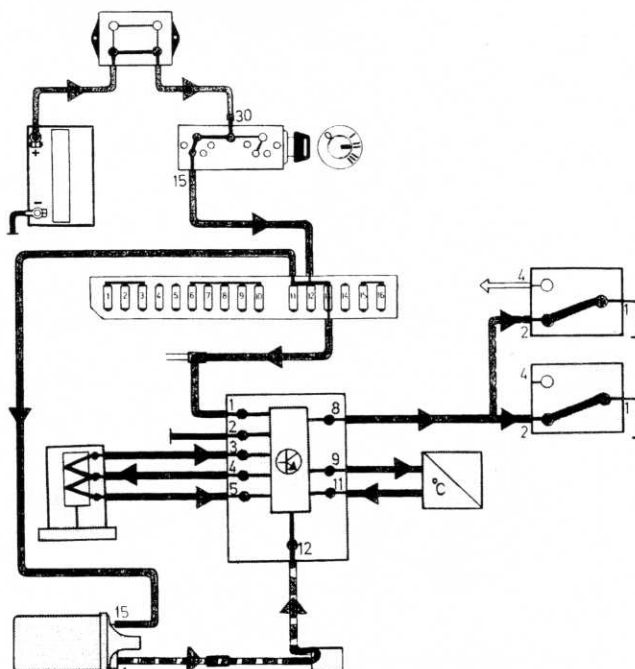
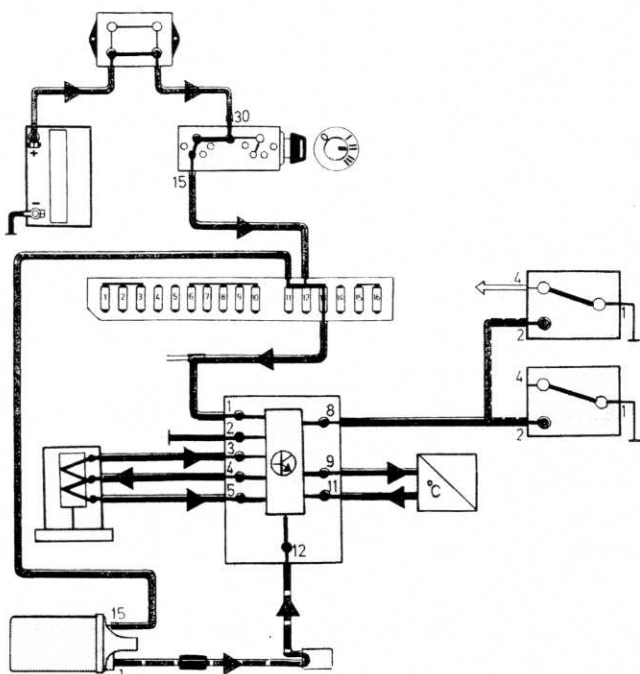


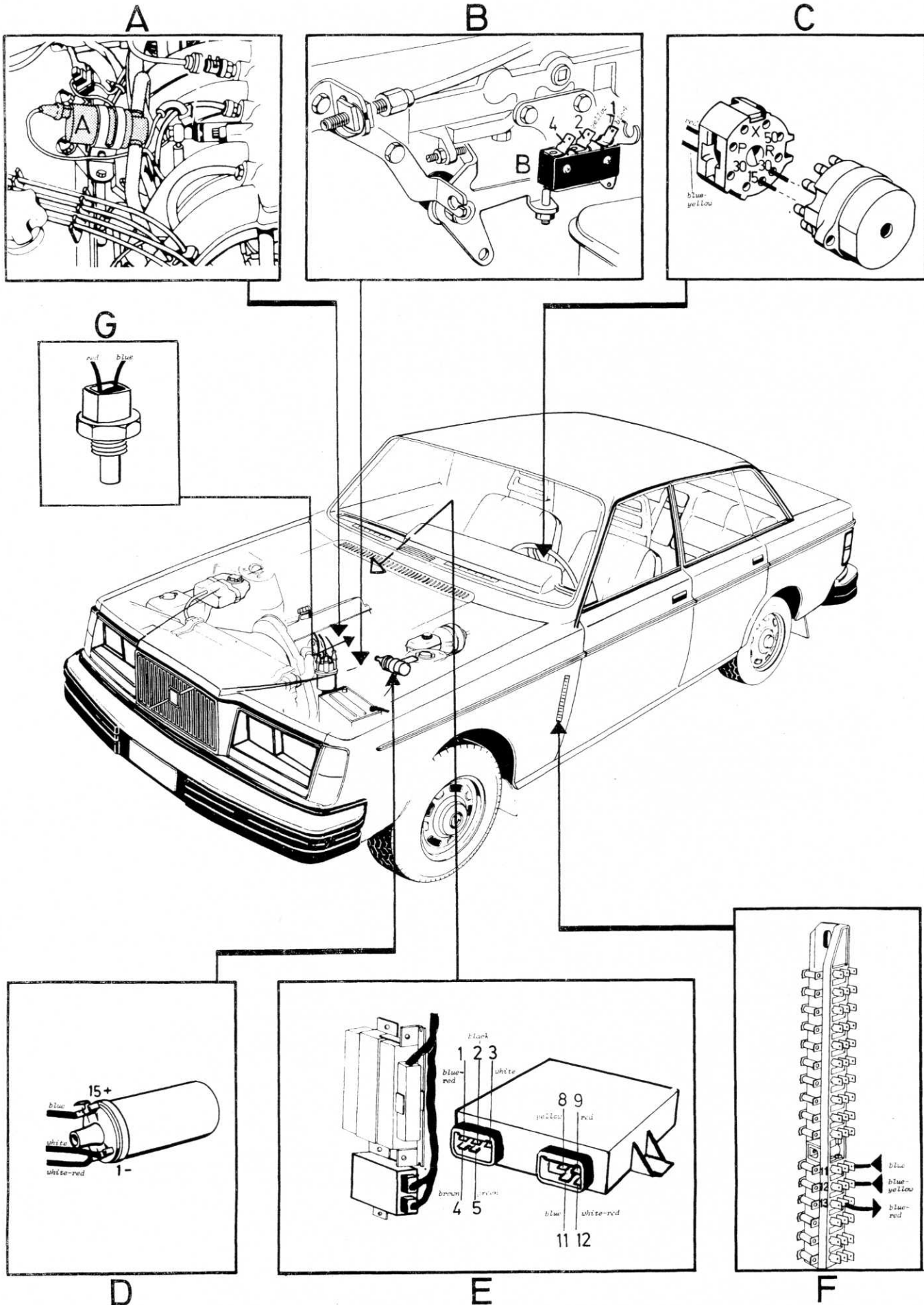
Idle speed.

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

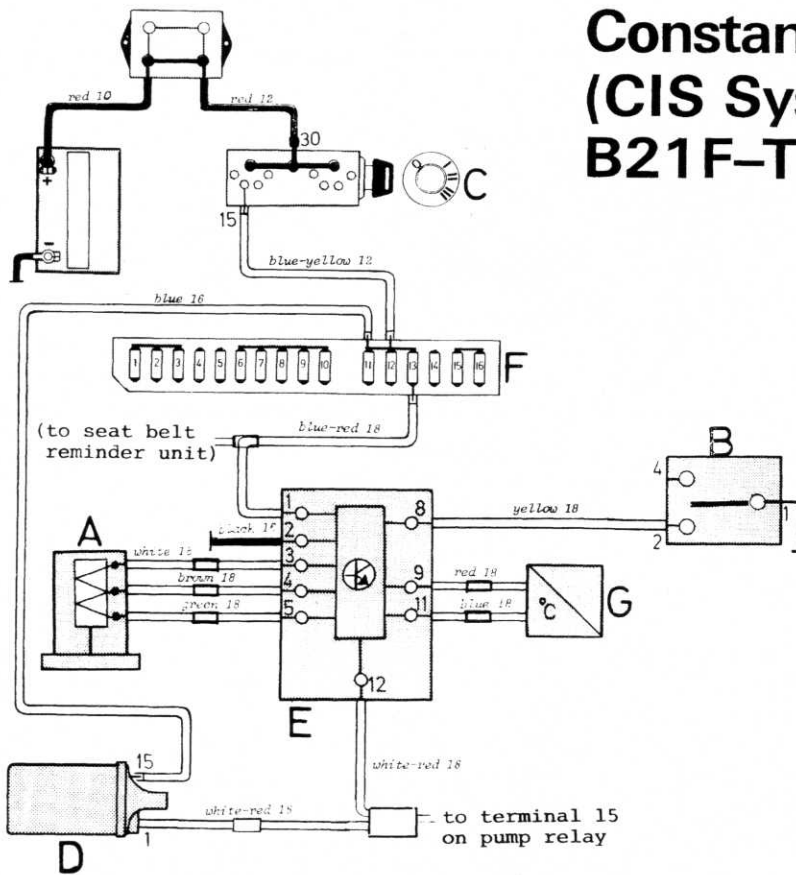
Above idle speed.

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

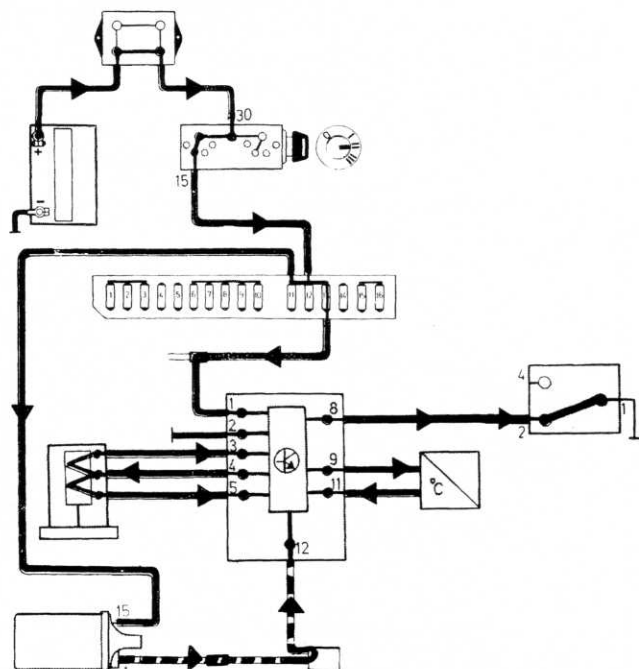
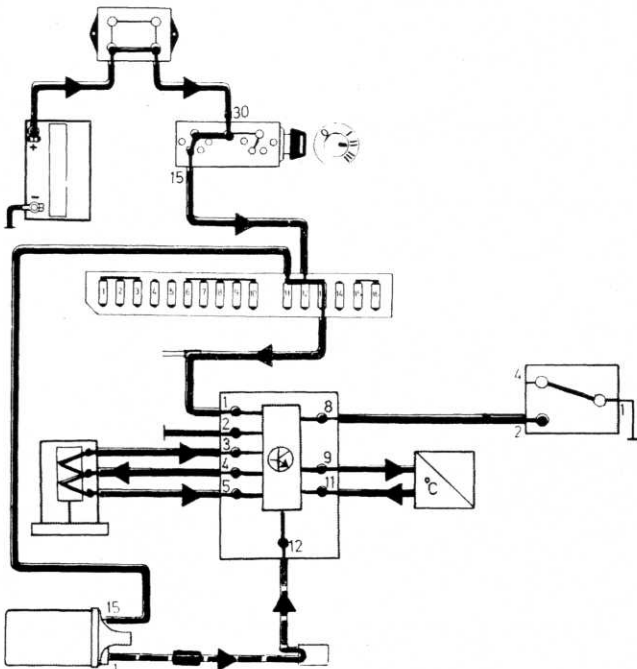
Legend:
A Air control valve
B Throttle switch
C Ignition switch
D Ignition coil
E Electronic control unit
F Fuse box
G Coolant temperature sensor

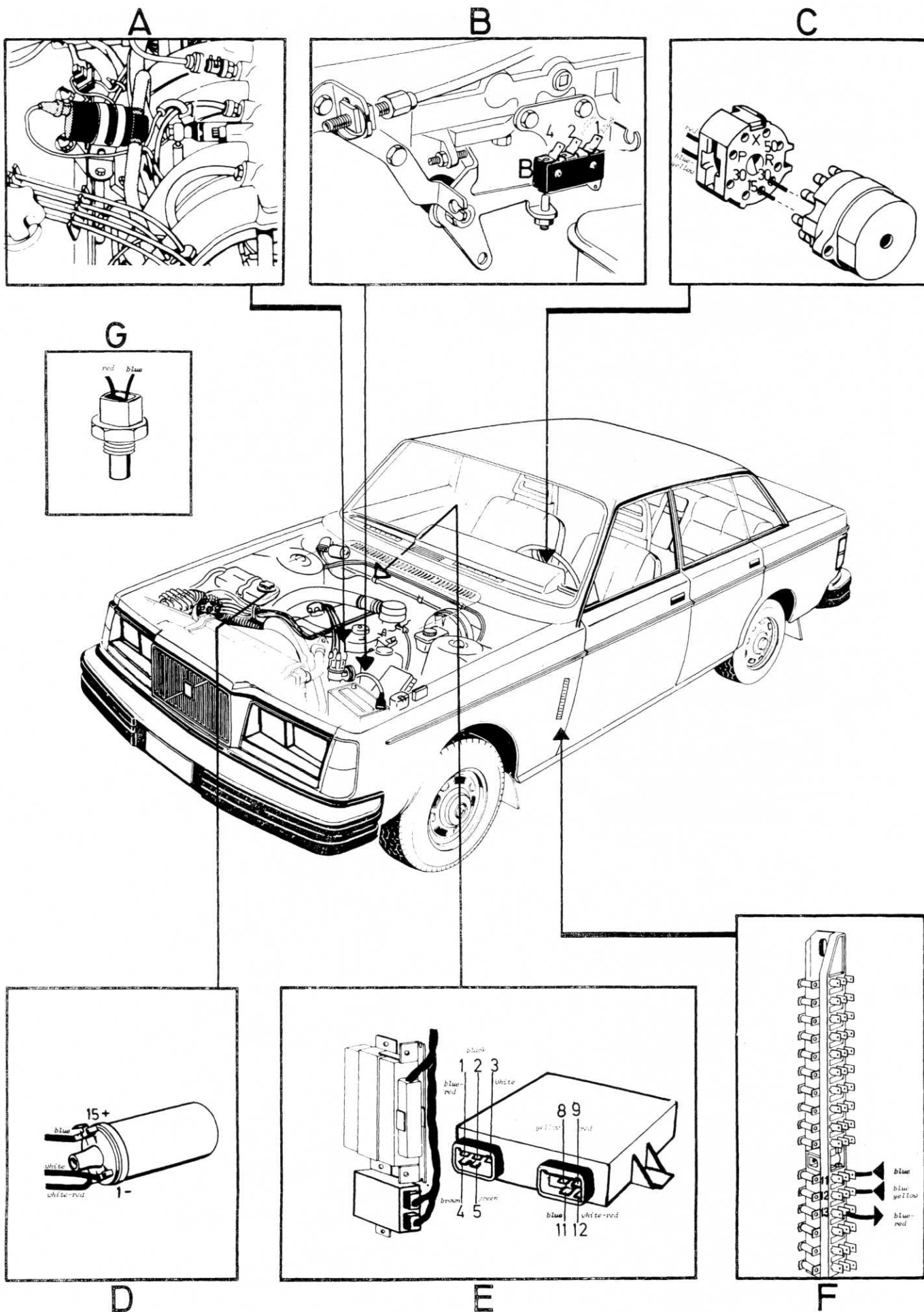
Idle speed.

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

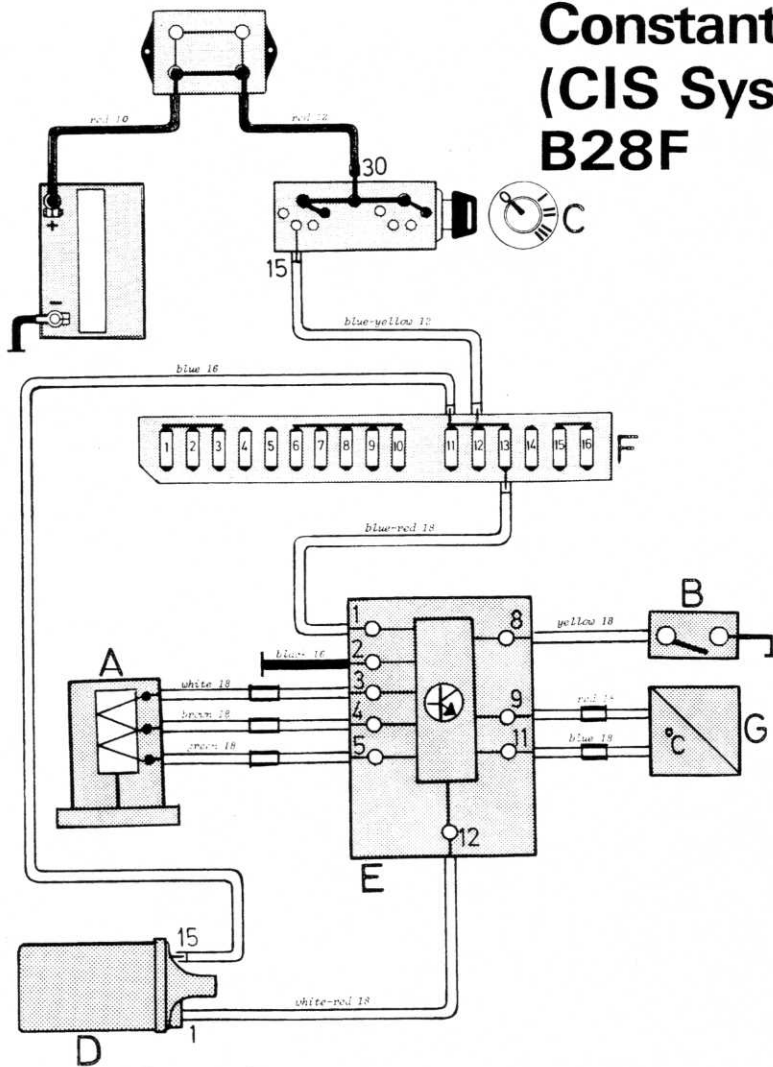
Above idle speed.

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:

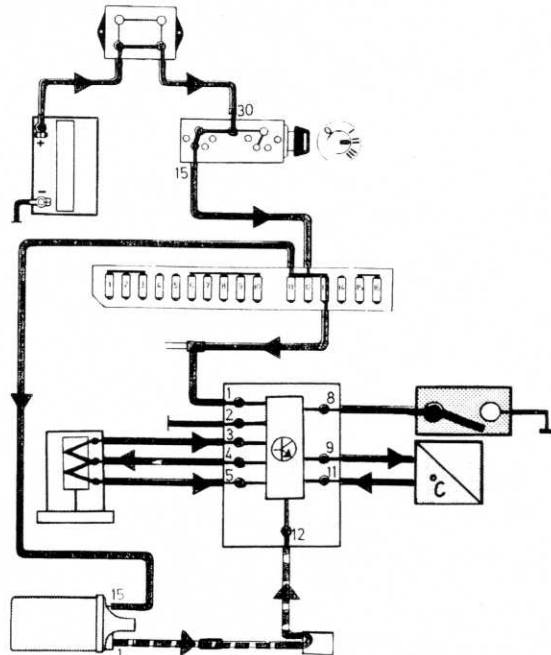
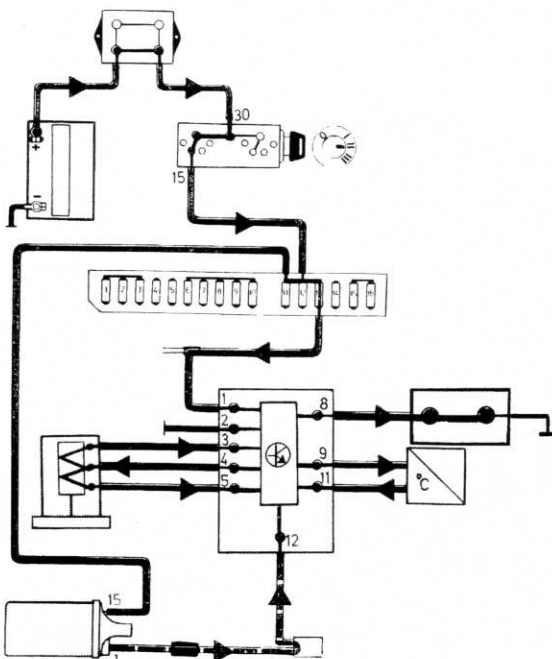
A Air control valve
B Throttle switch
C Ignition switch
D Ignition coil
E Electronic control unit
F Fuse box
G Coolant temperature sensor

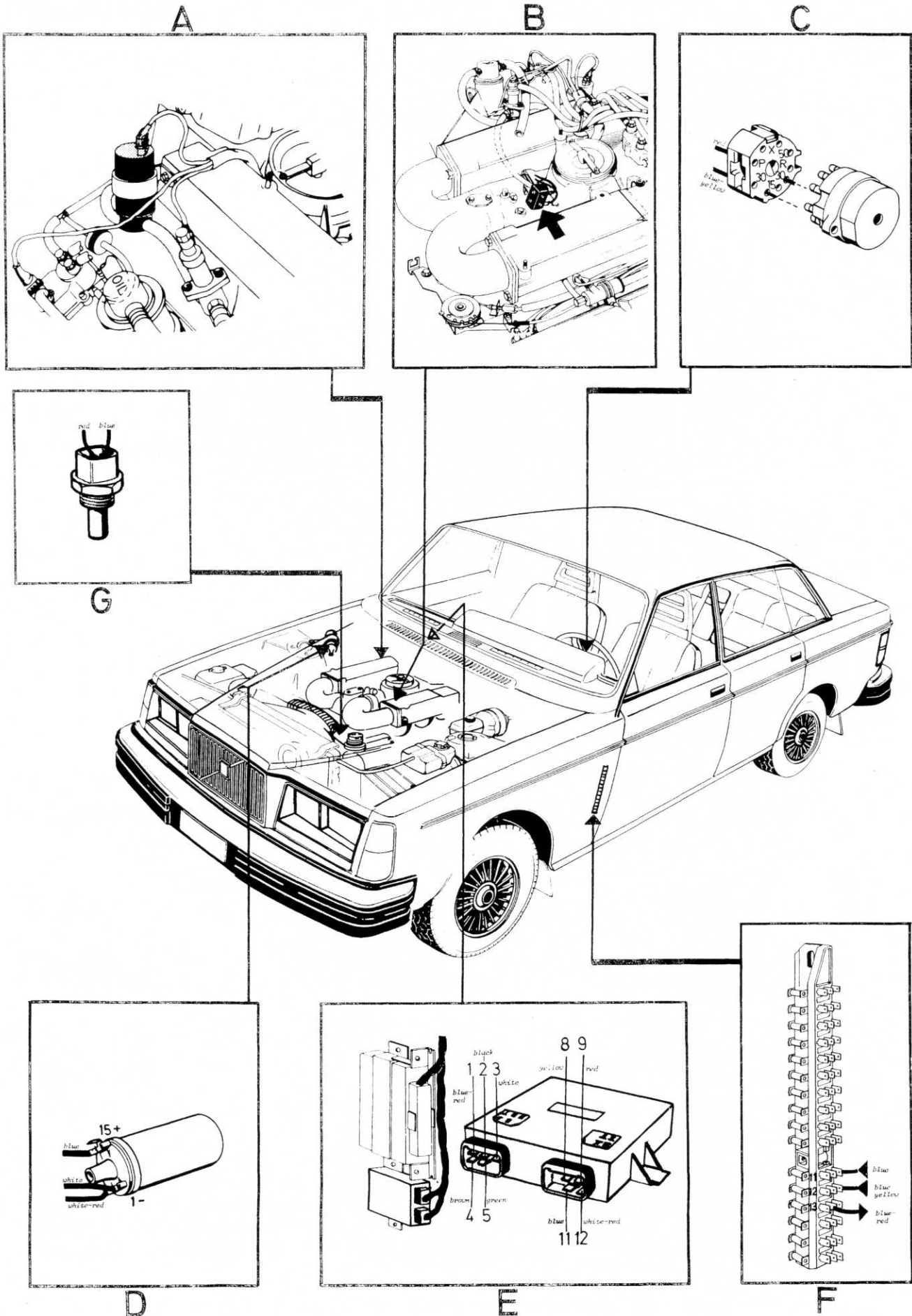
Idle speed.

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

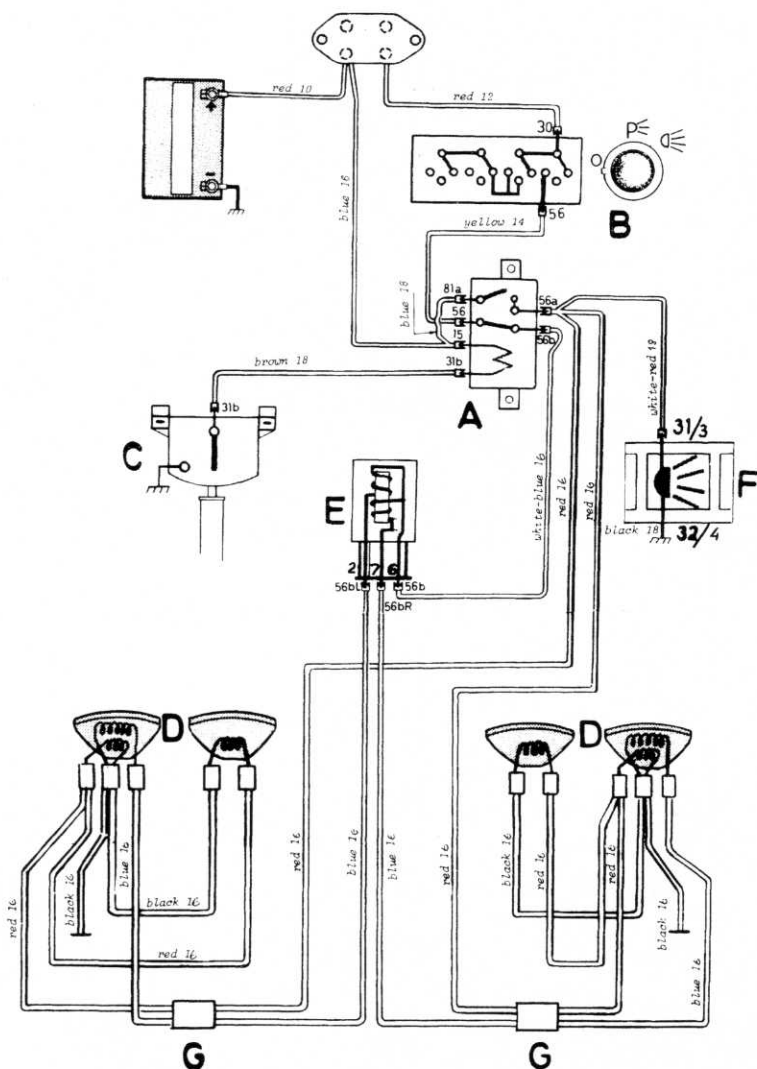
Above idle speed.

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





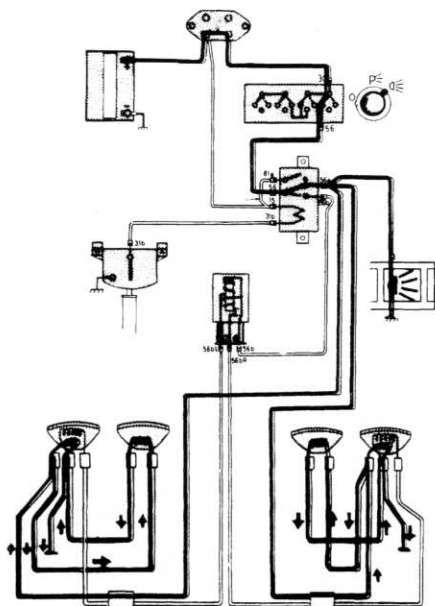
Headlights



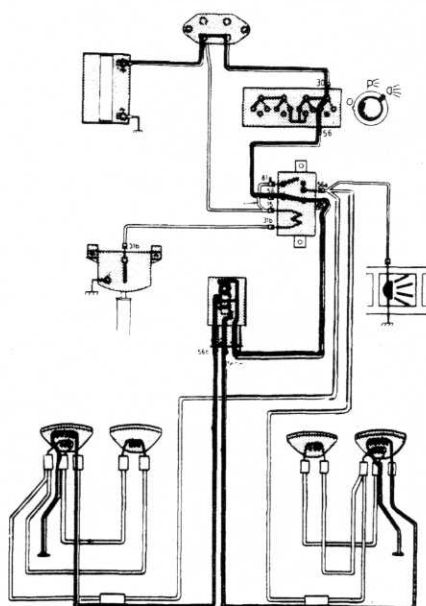
Legend:

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

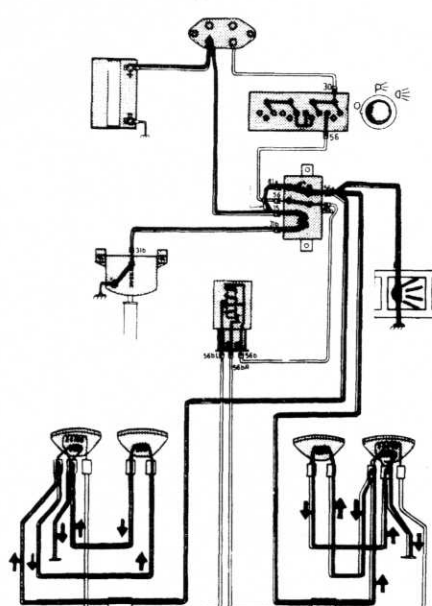
Upper beam

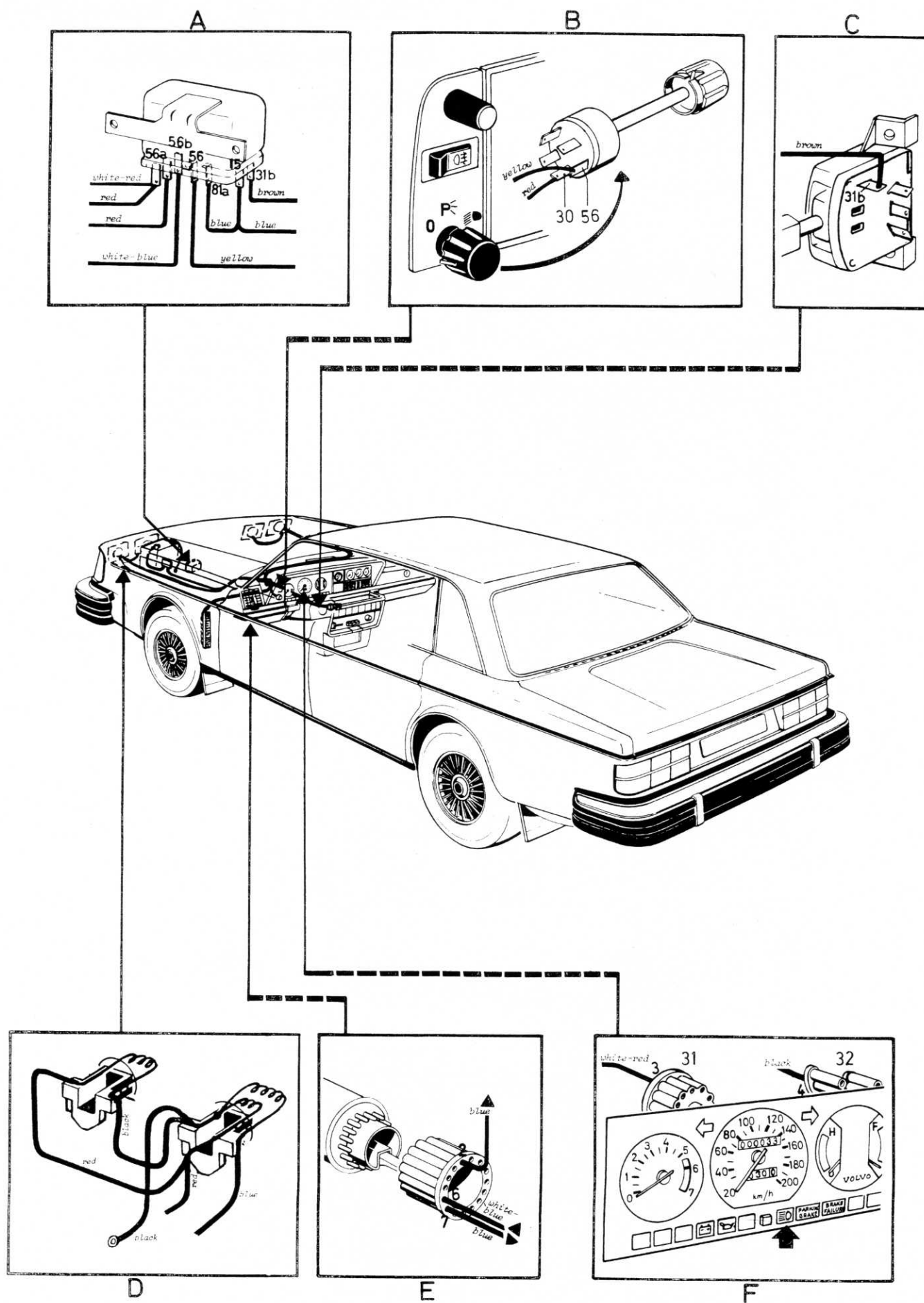


Lower beam

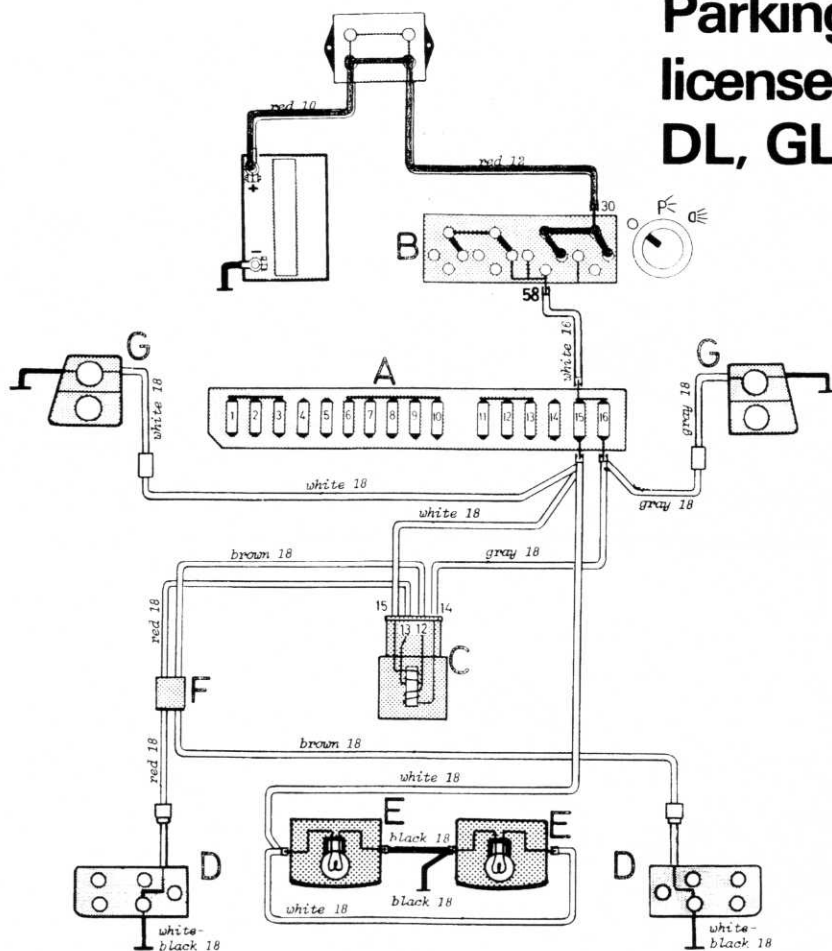


Headlight flasher





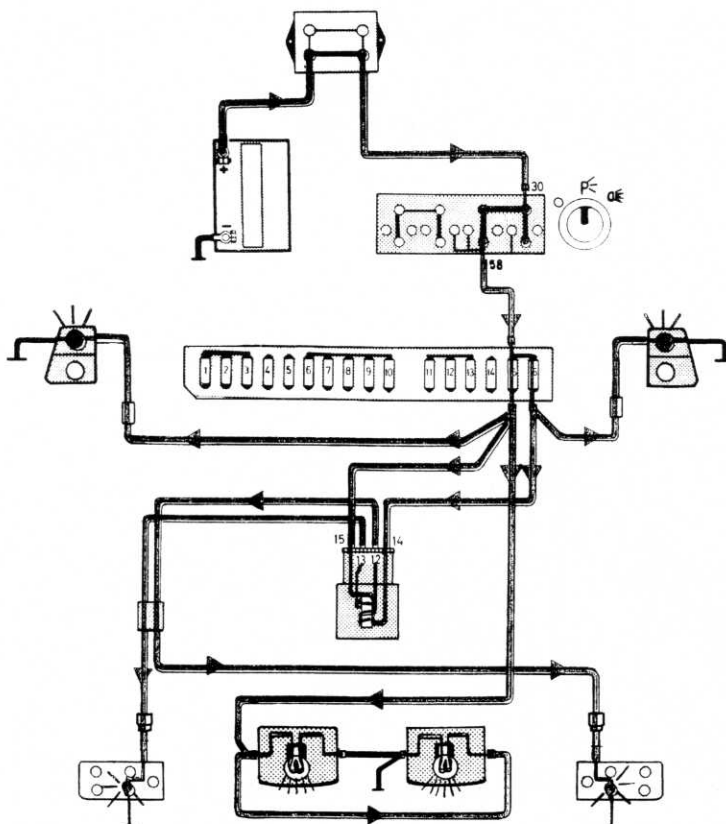
Parking lights, tail lights, license plate lights DL, GL,

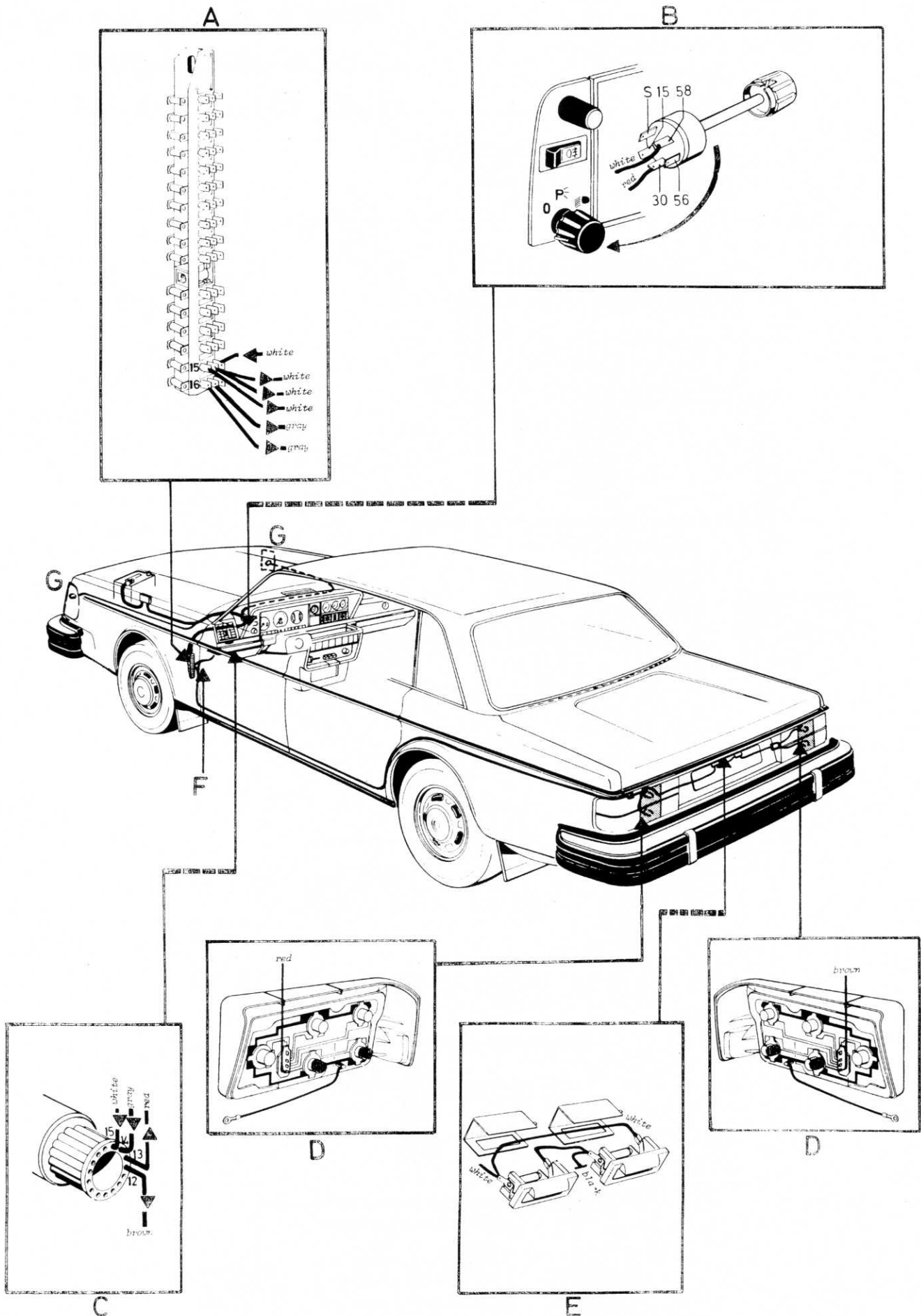


Fuse No. 15:
Parking light, left side
License plate light

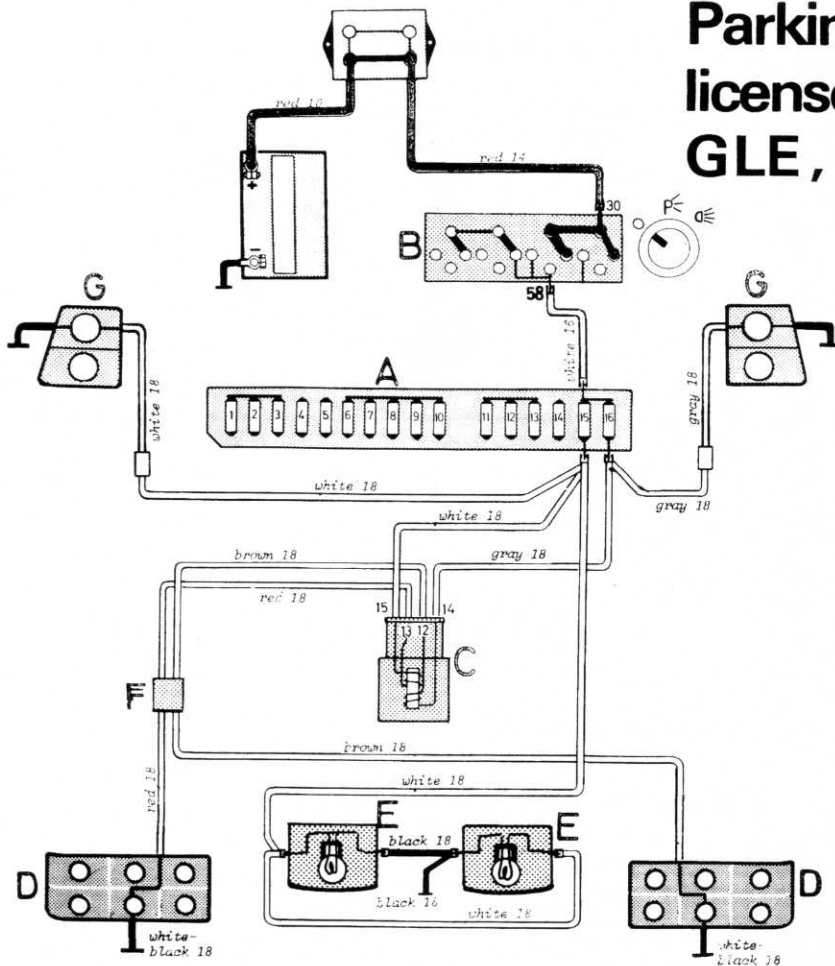
Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

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

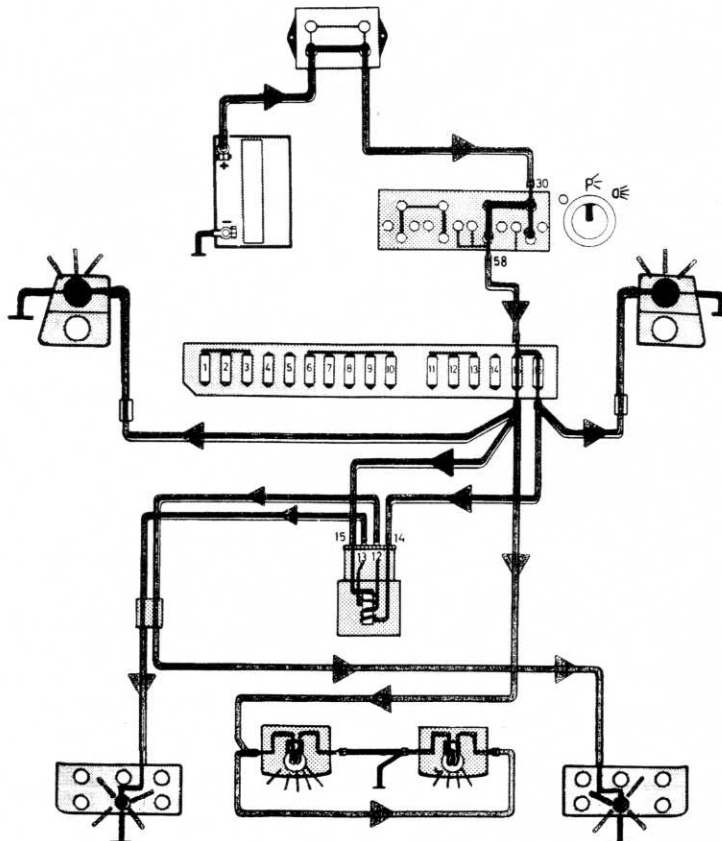


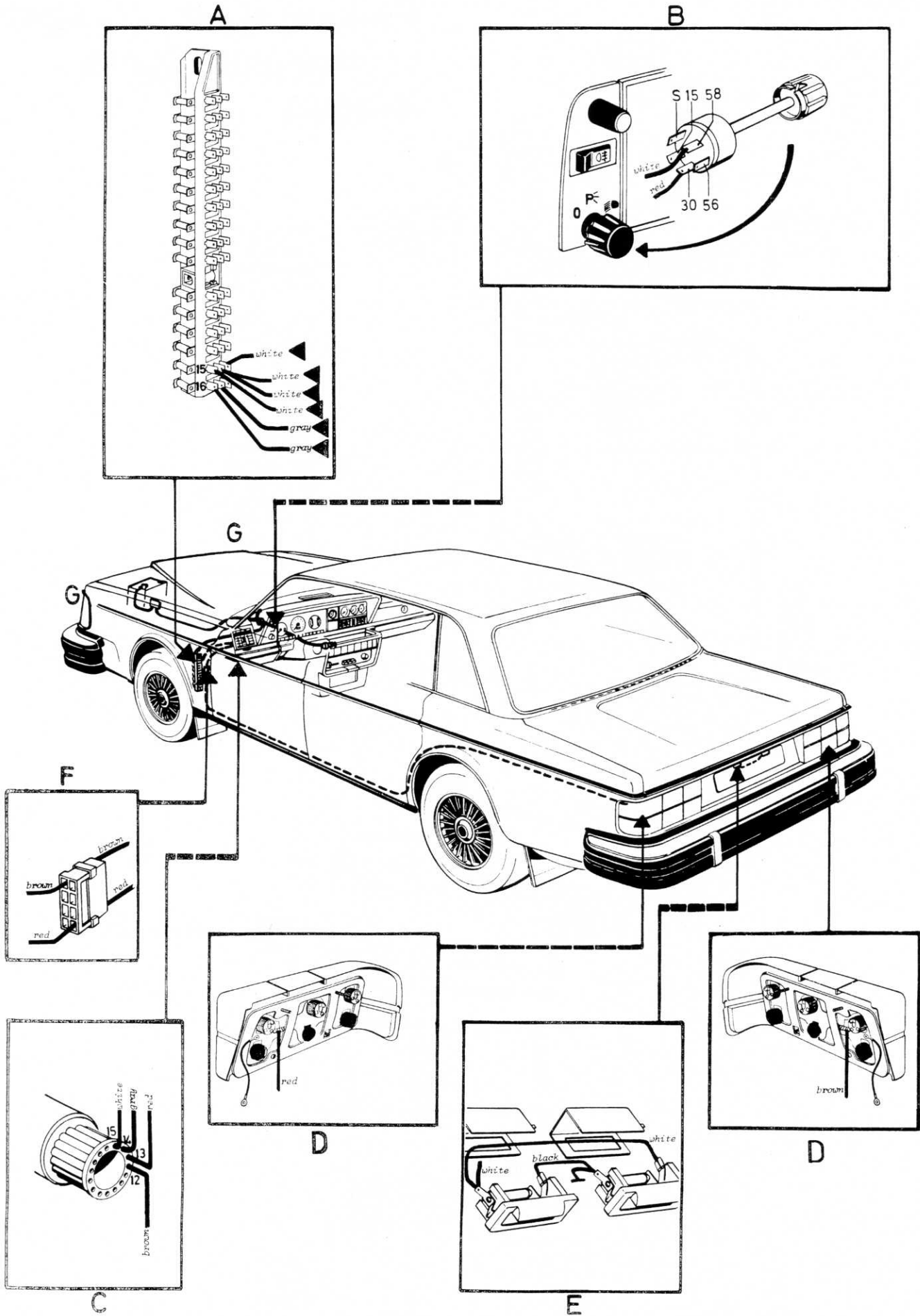
Fuse No. 15:
Parking light, left side
License plate light

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

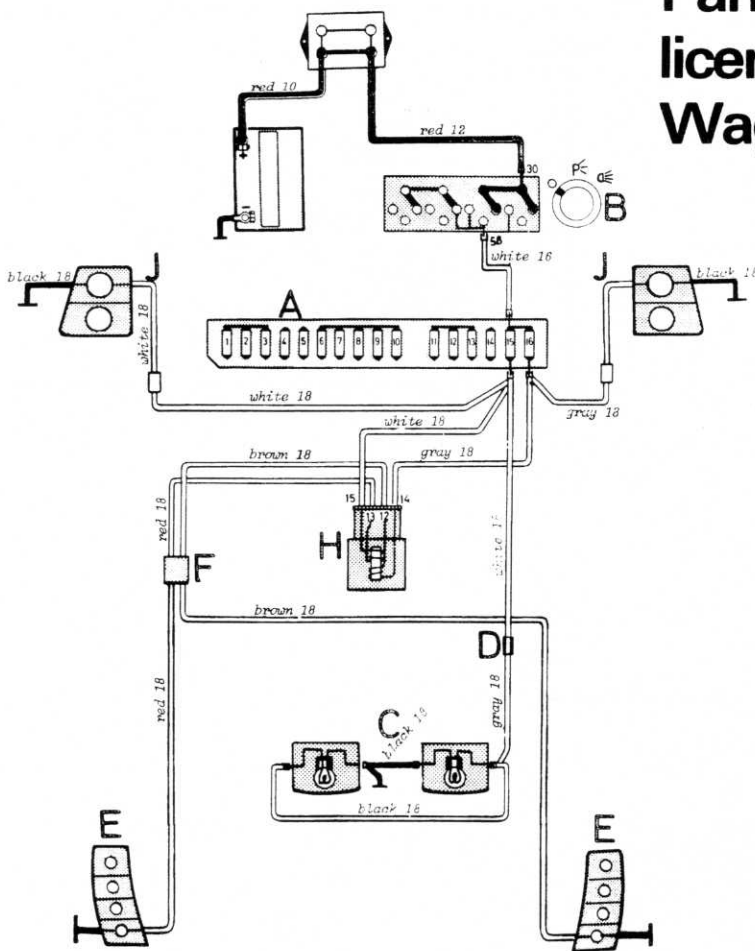
Legend:

- 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**

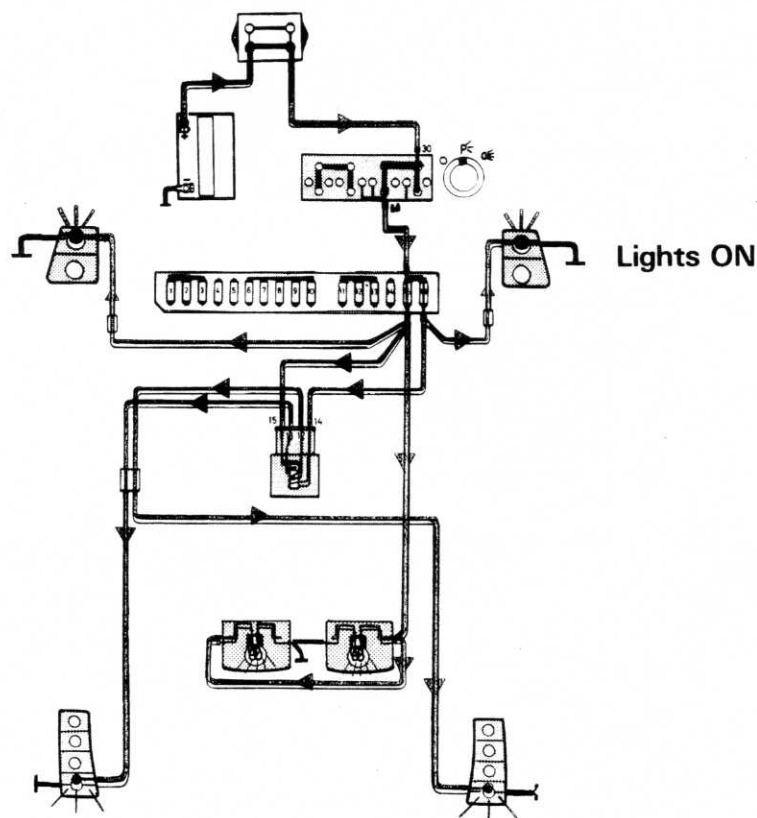


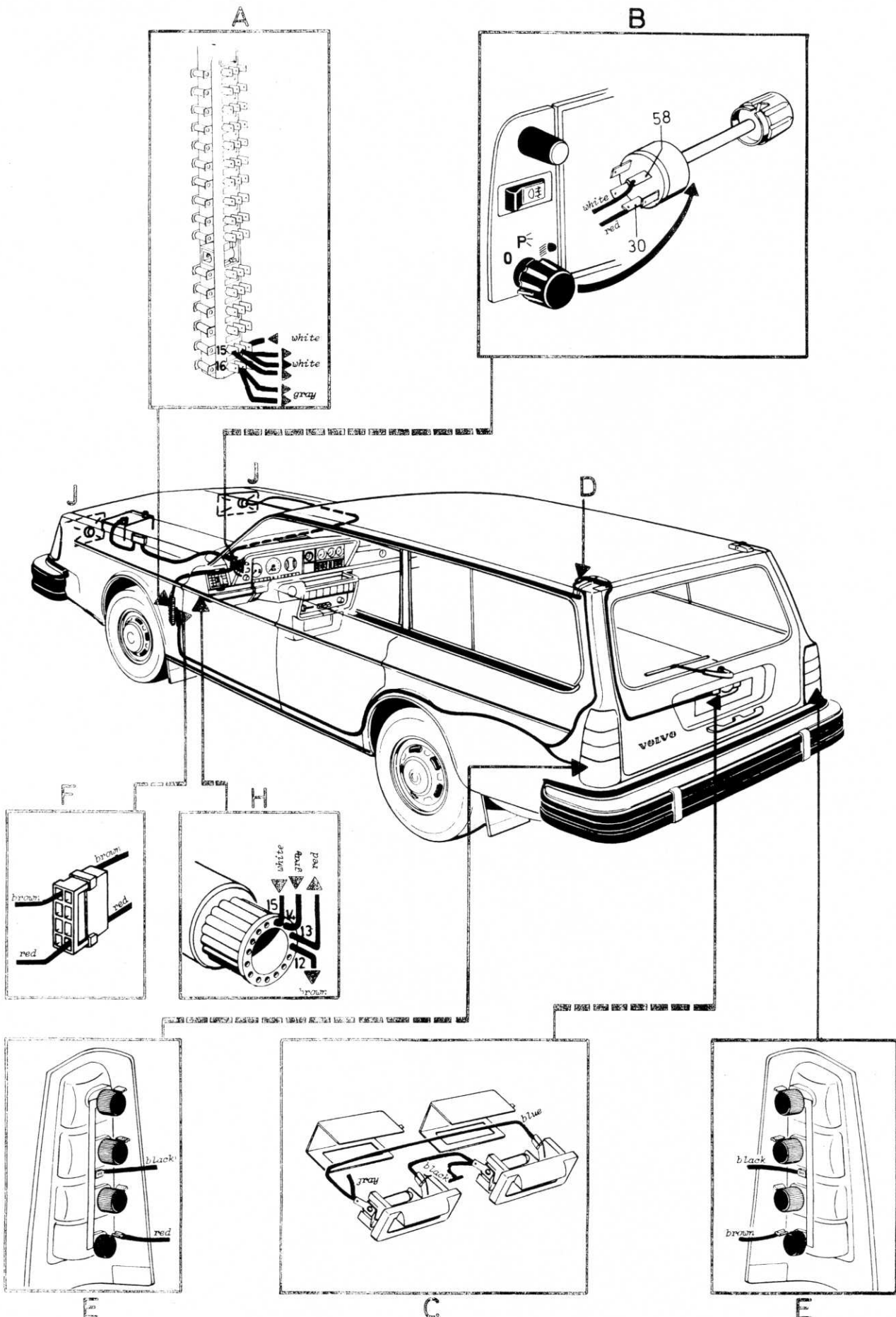
Fuse No. 15:
Parking light, left side
License plate light
Side marker light (wagon)

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

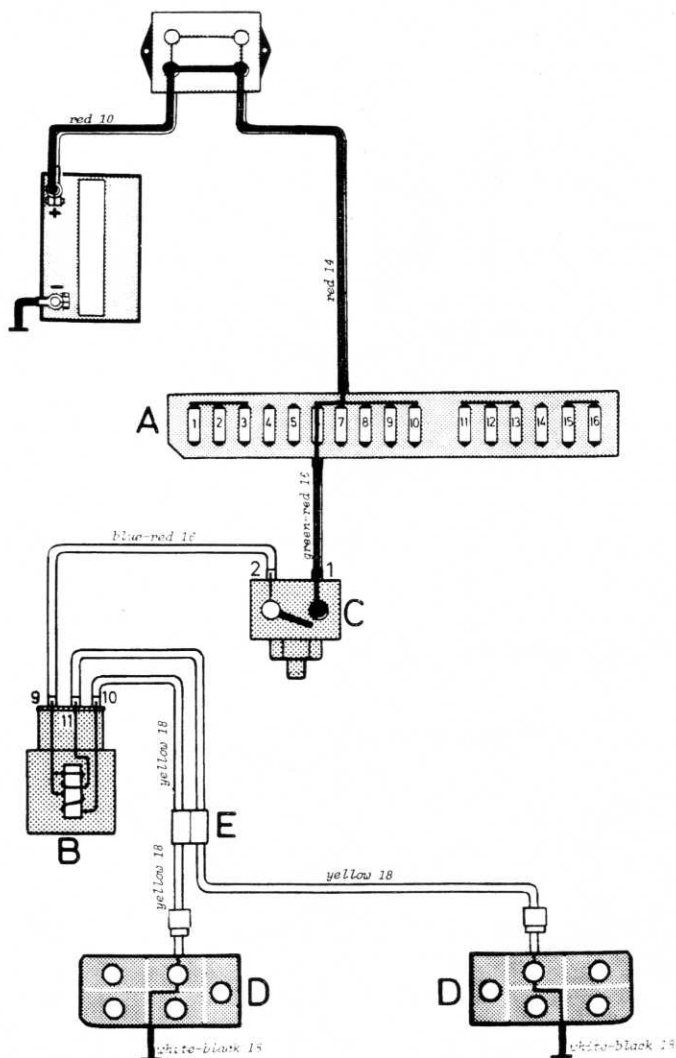
Legend:

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





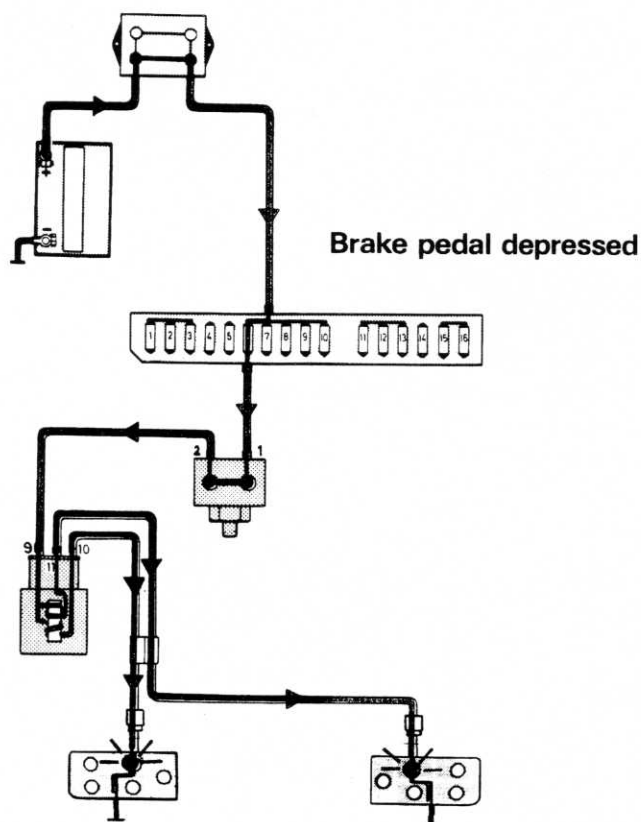
Brake lights DL, GL

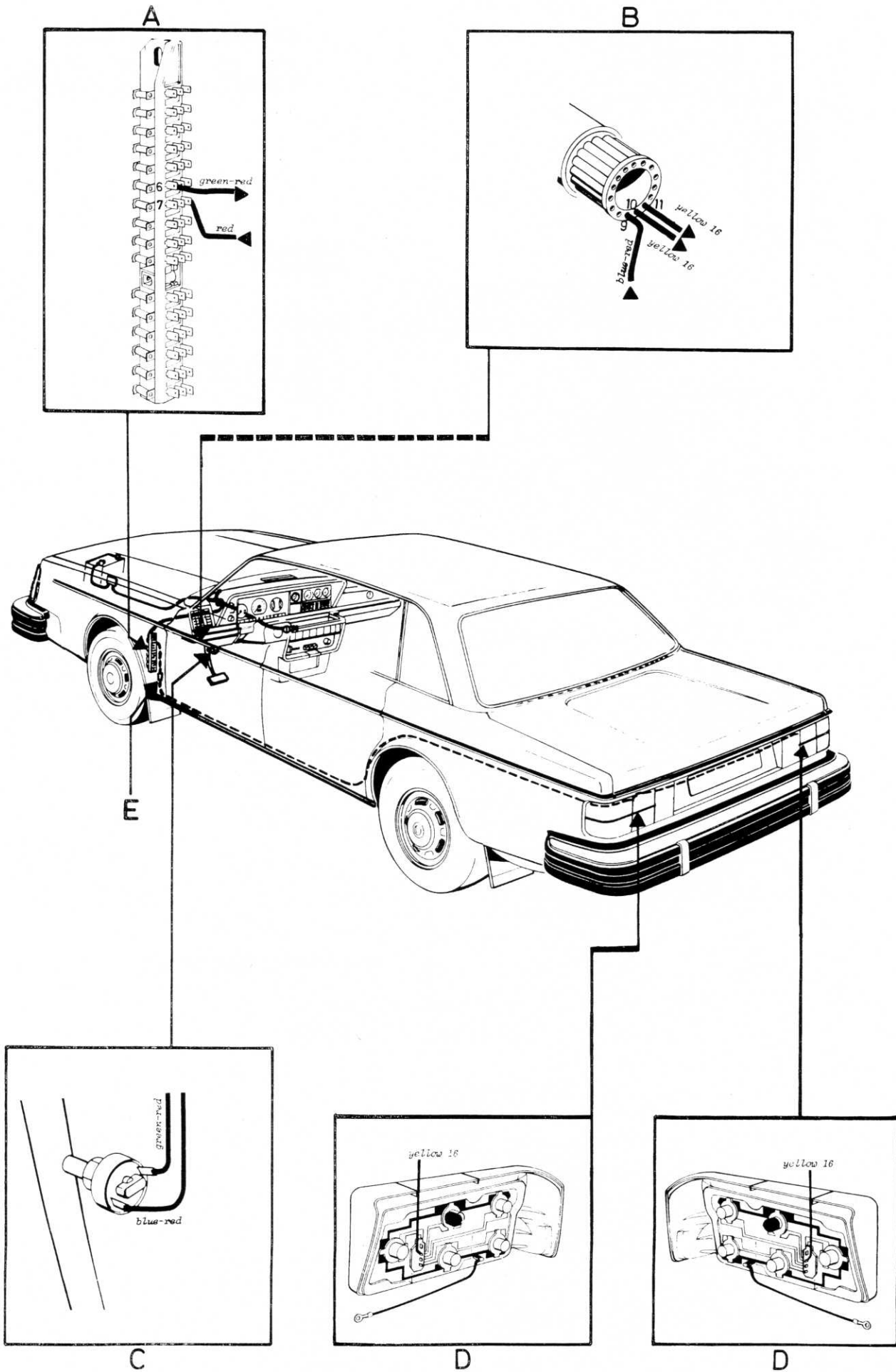


Fuse No. 6:
Brake light

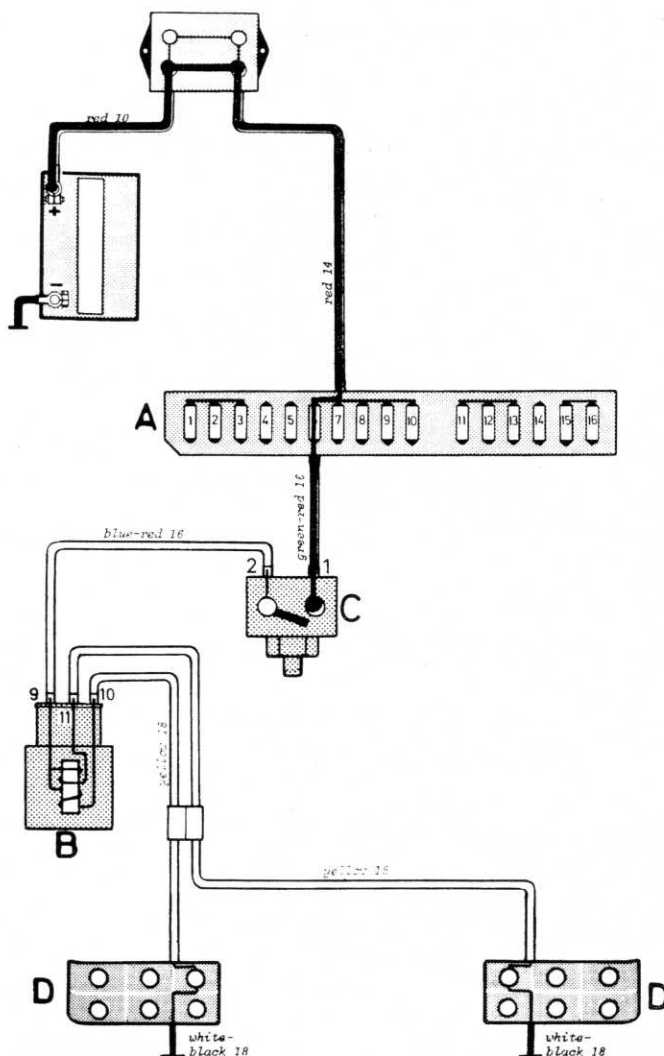
Legend:

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



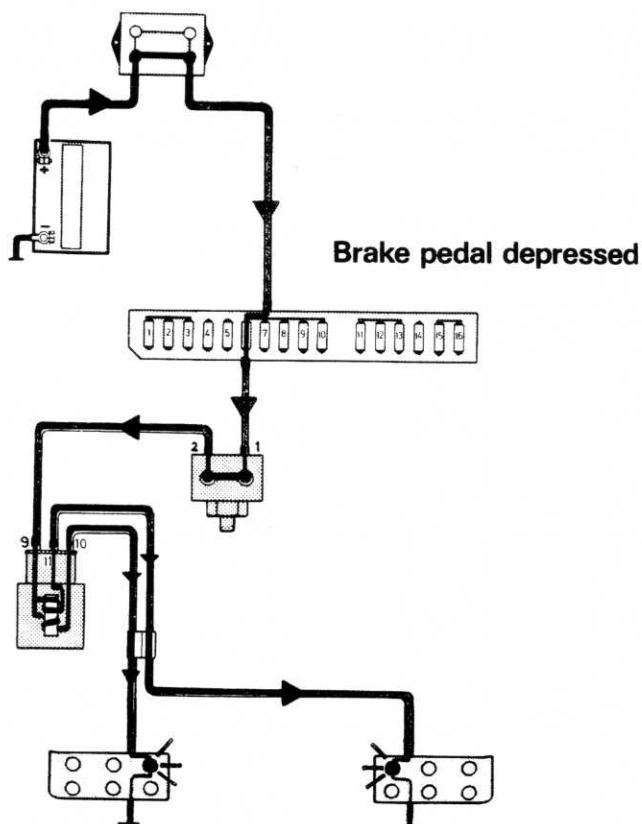


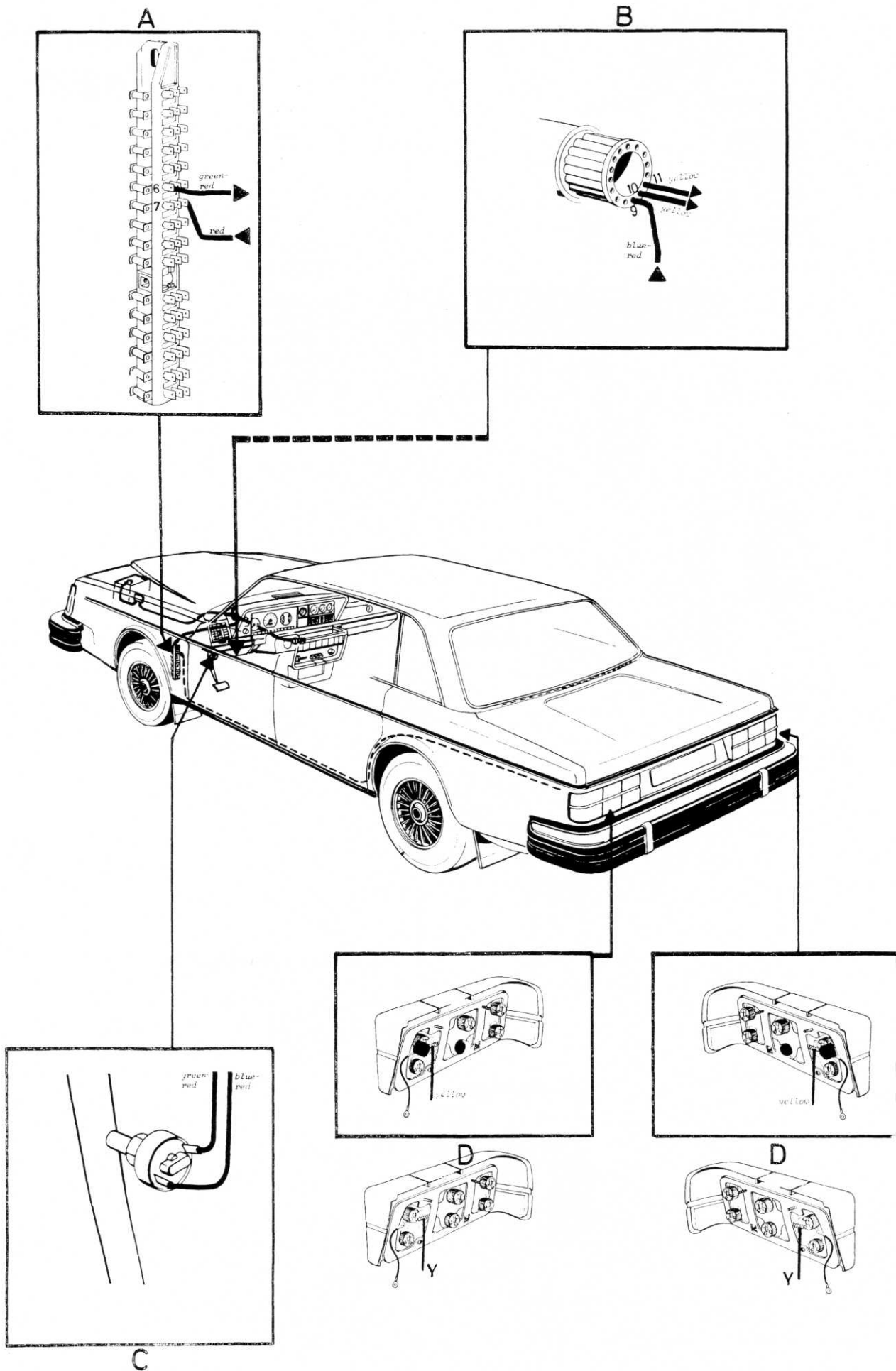
Brake lights GLE, GLT, Coupe



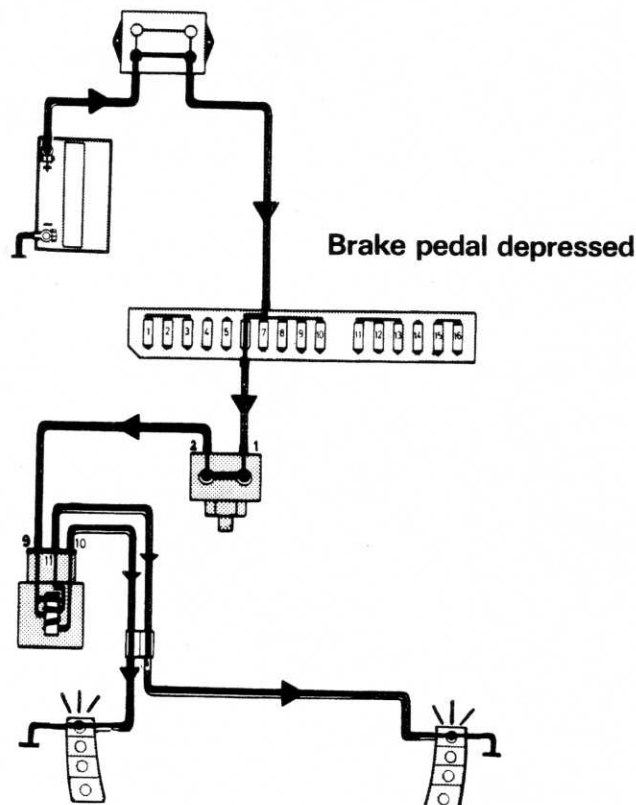
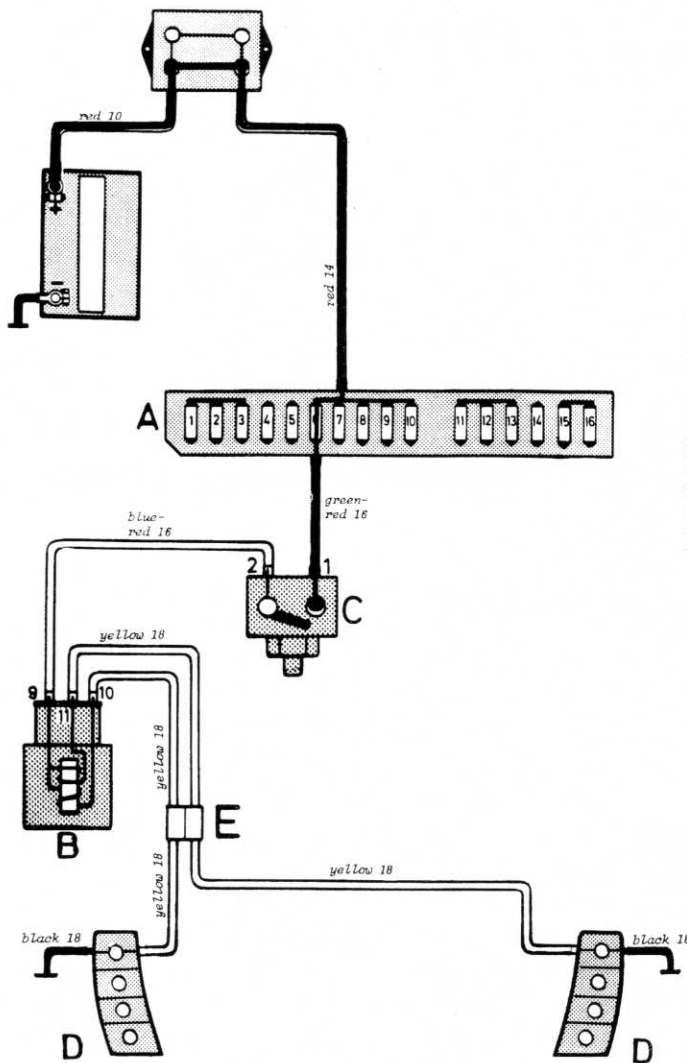
Fuse No. 6:
Brake light

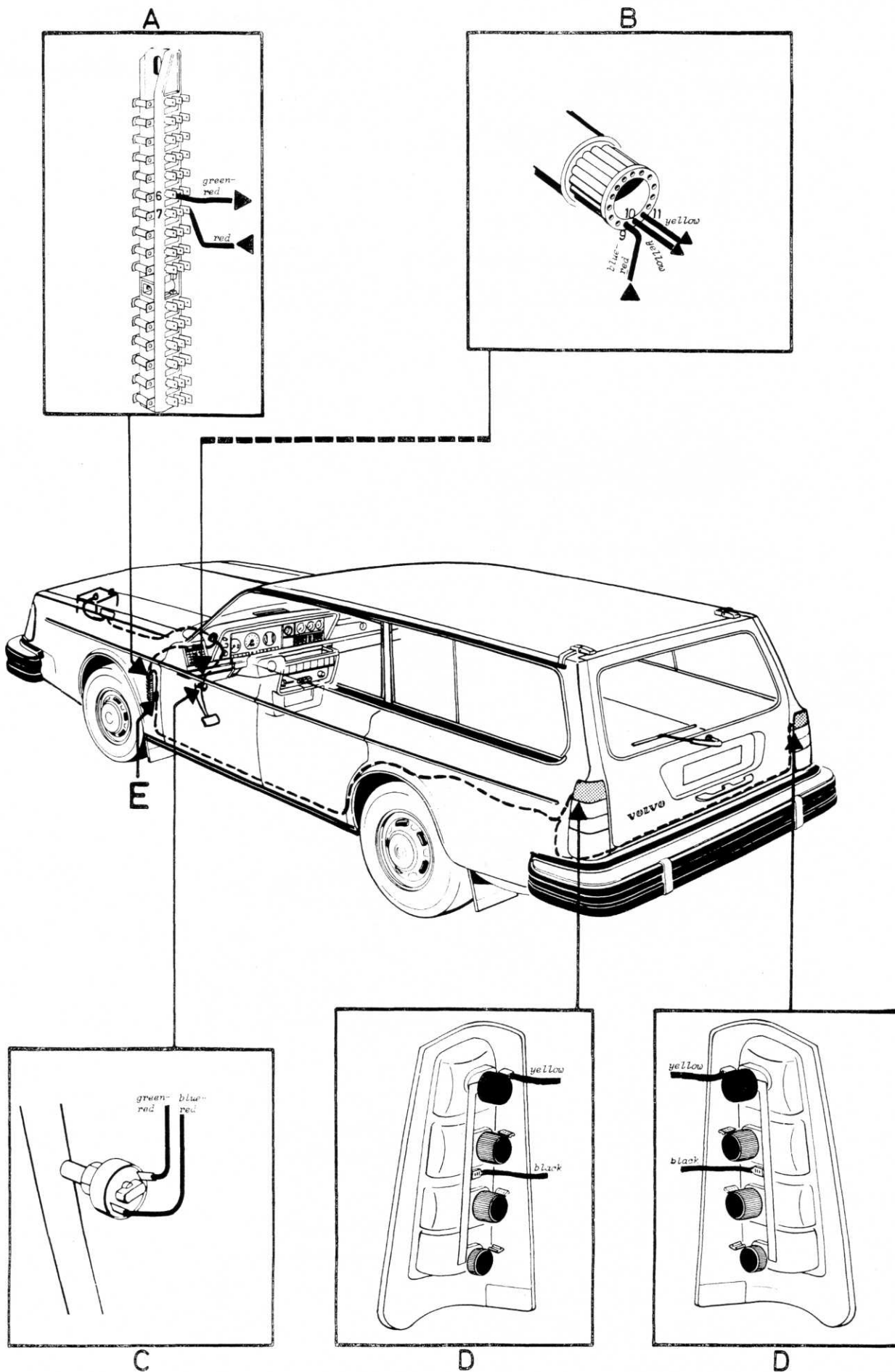
Legend:
A Fuse box
B Bulb failure sensor
C Brake light switch
D Brake lights



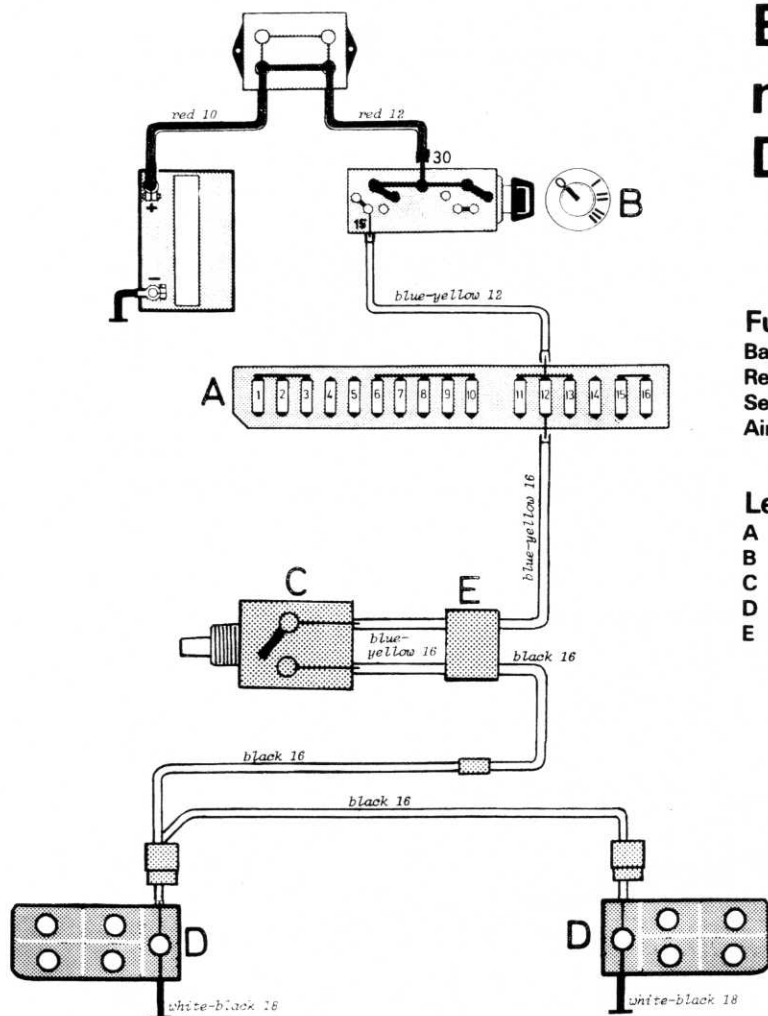


Brake lights Wagon



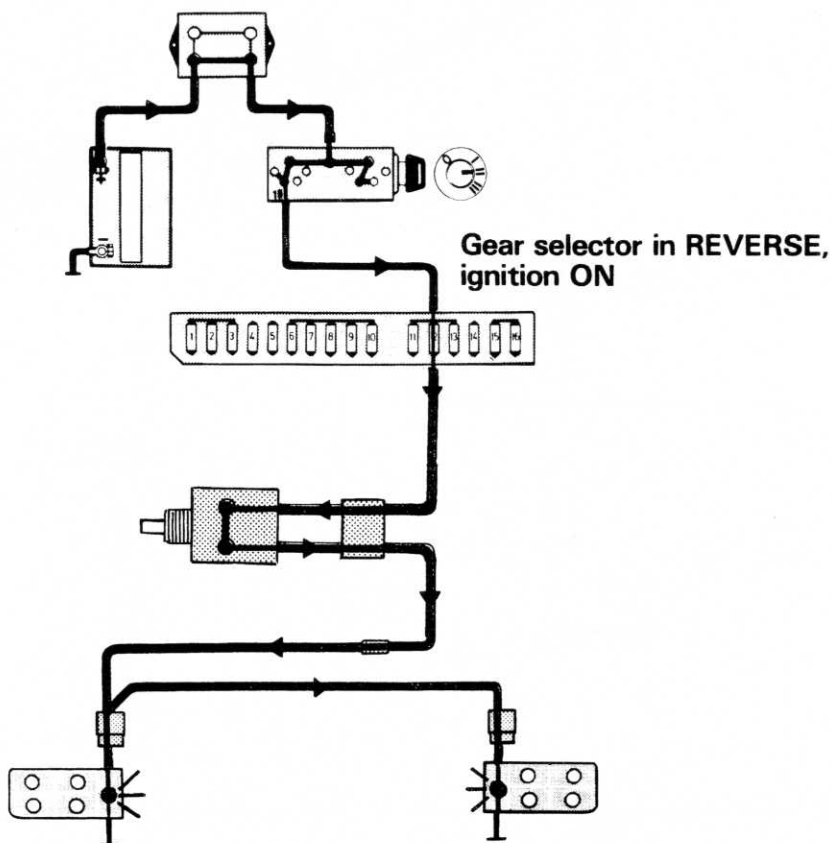


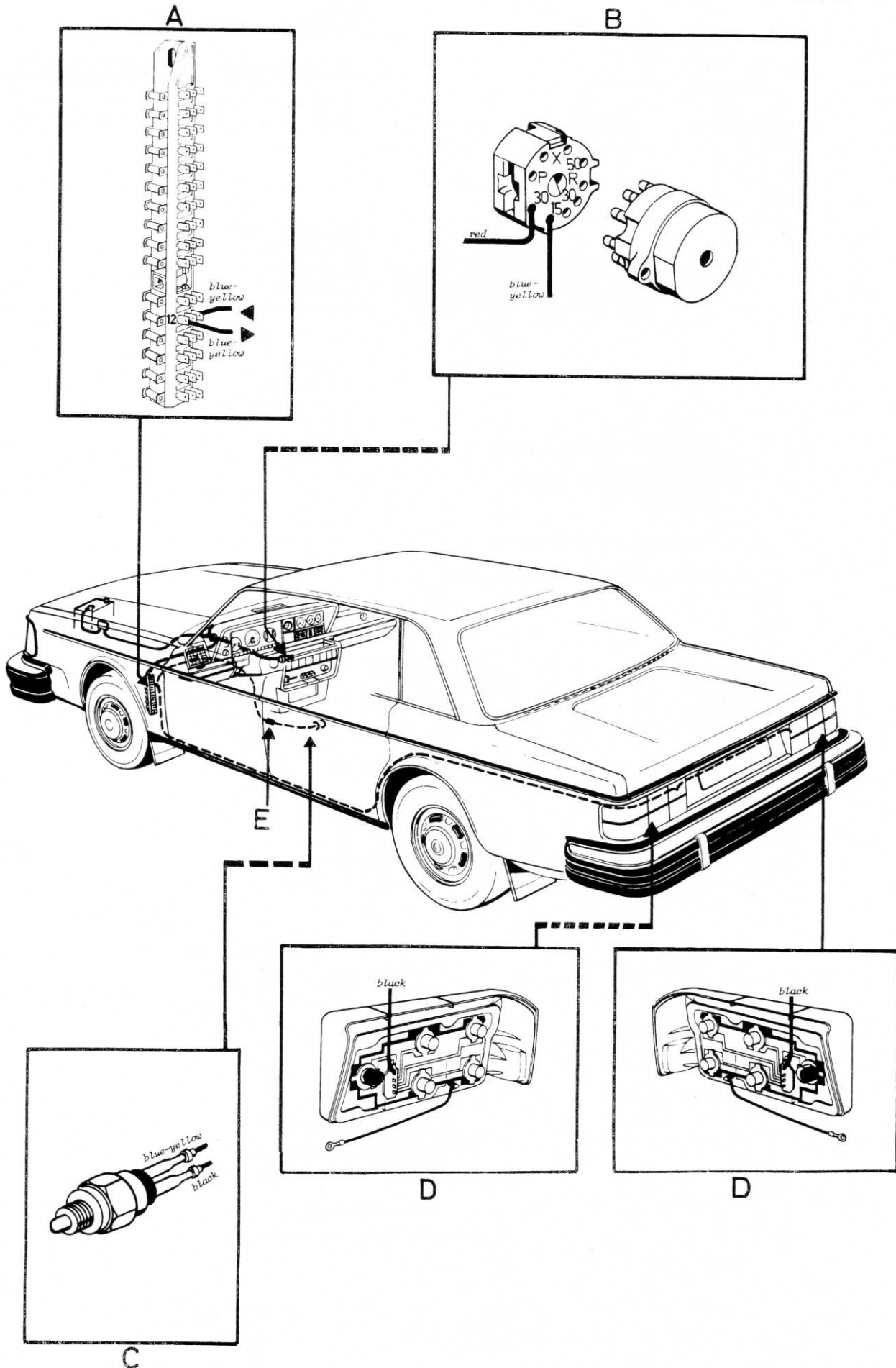
Back-up lights, manual transmission DL, GL



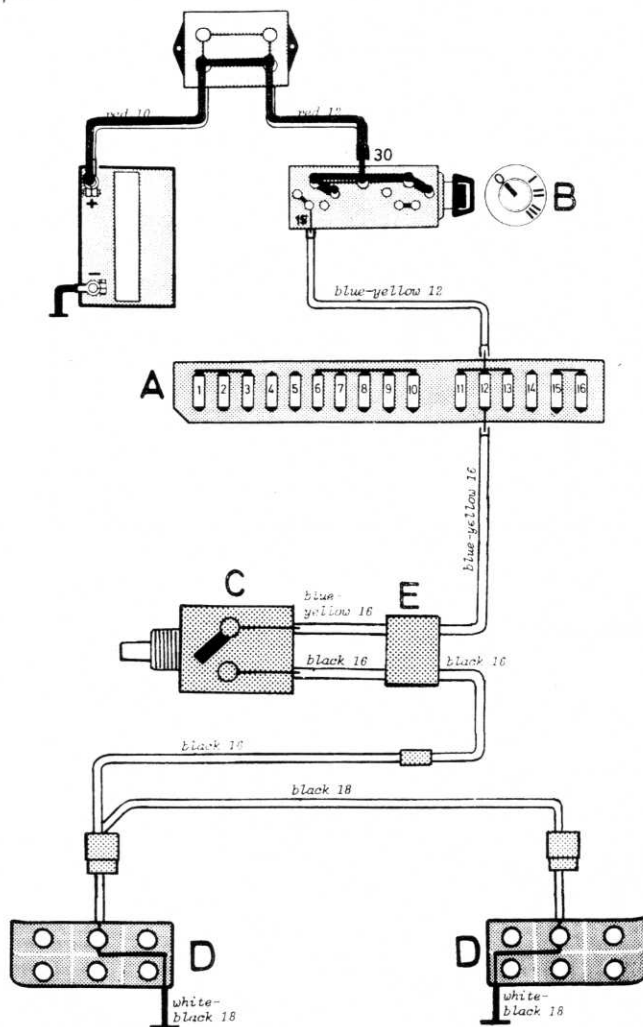
Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

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



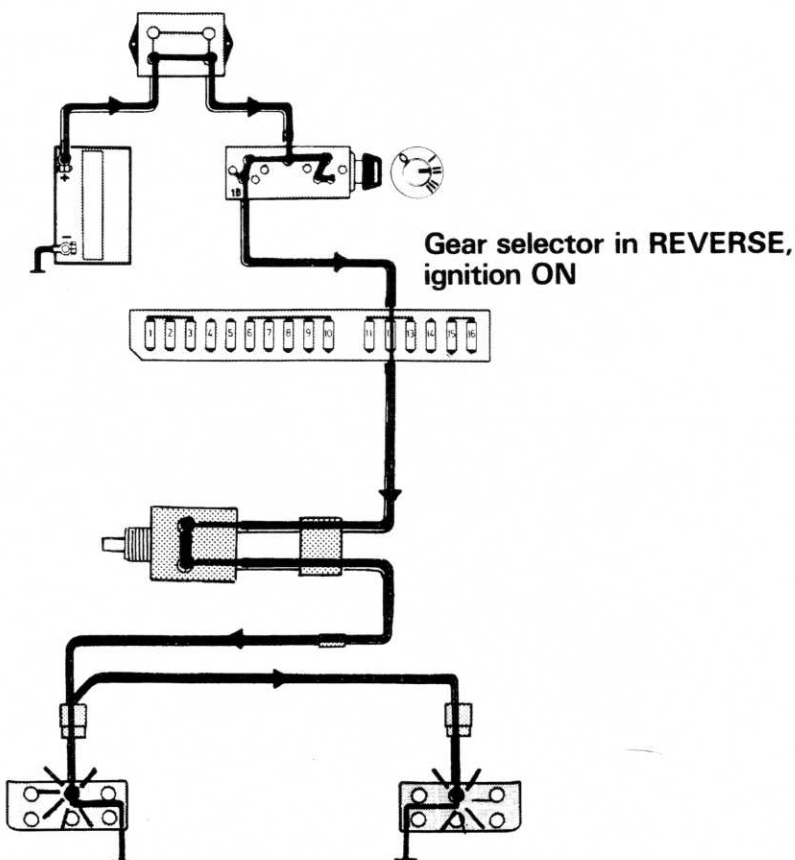


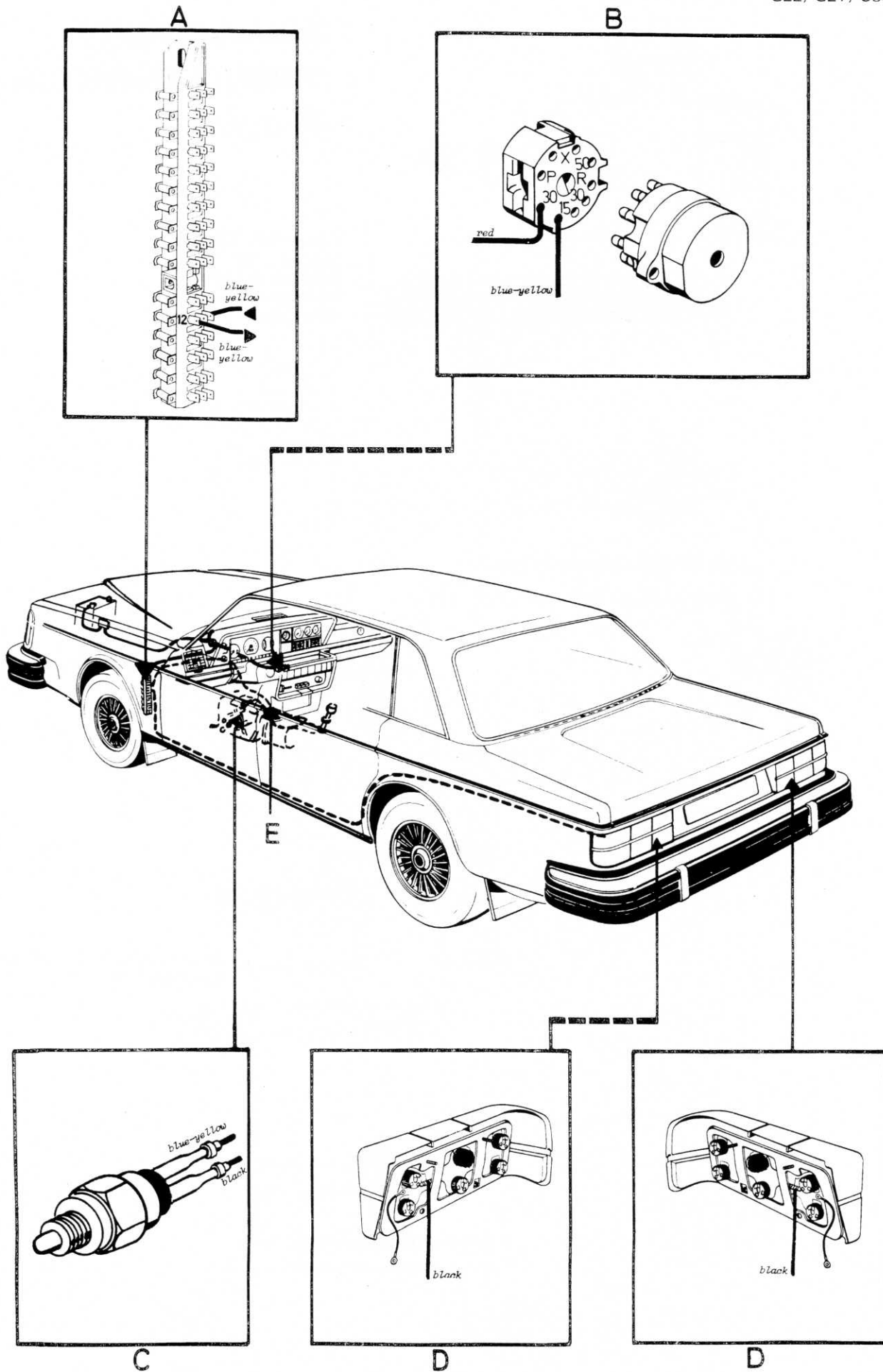
Back-up lights, manual transmission GLE, GLT, Coupe



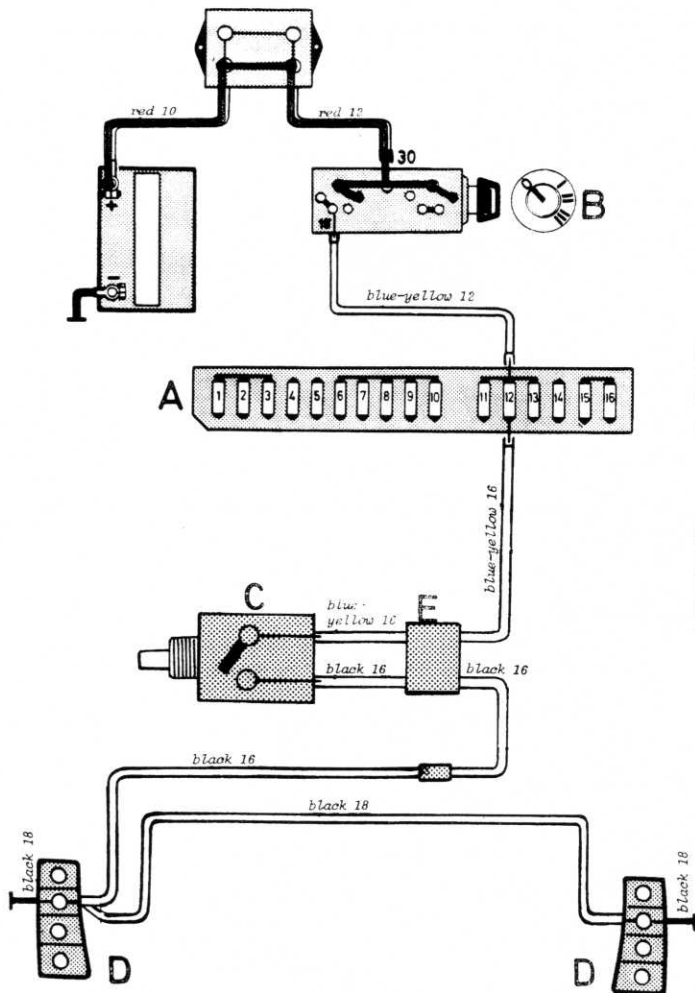
Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

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





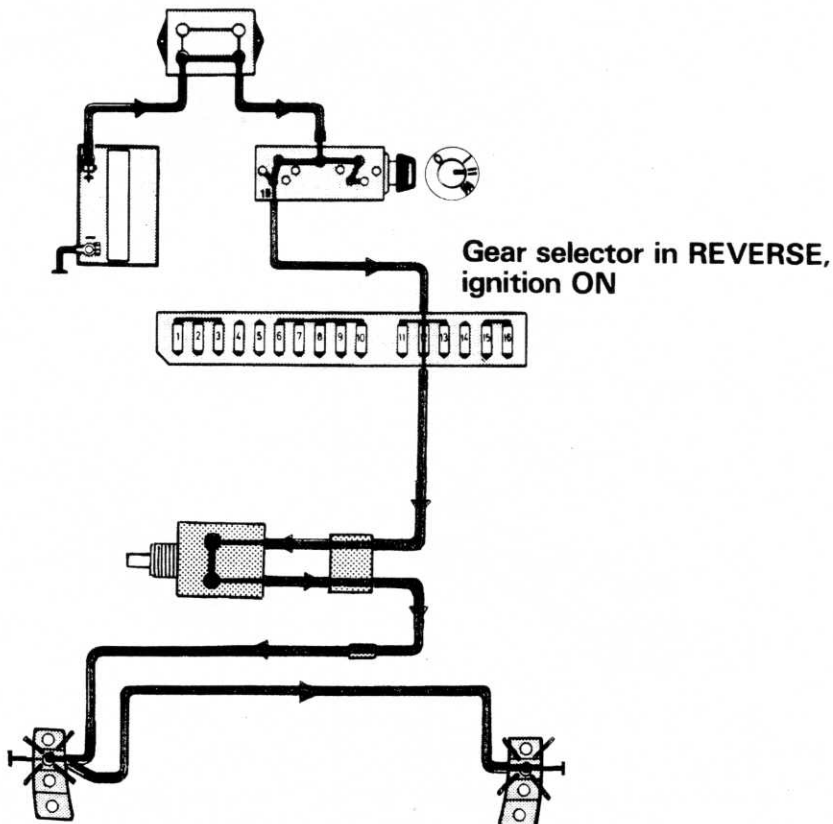
Back-up lights, manual transmission Wagon

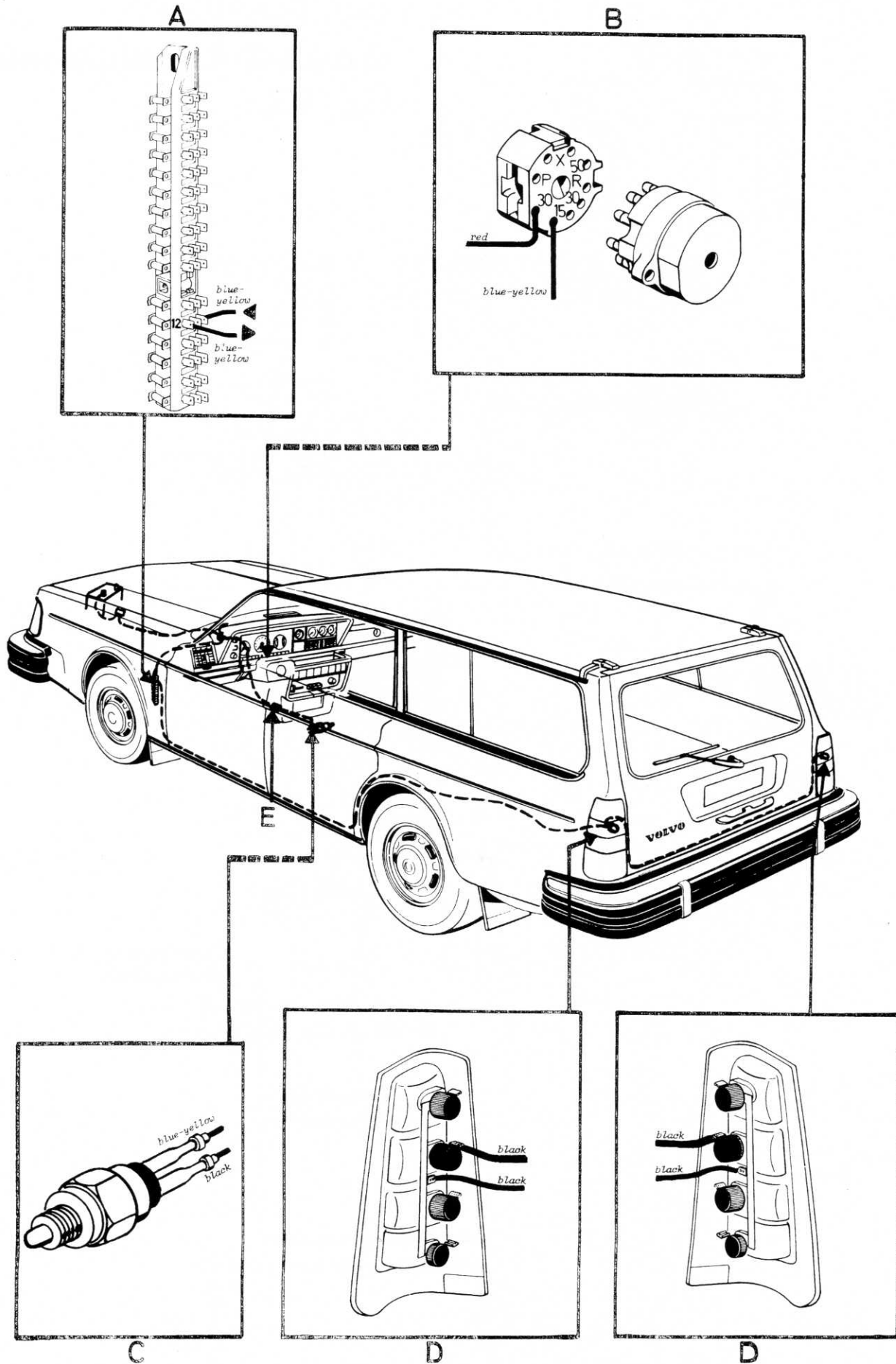


Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

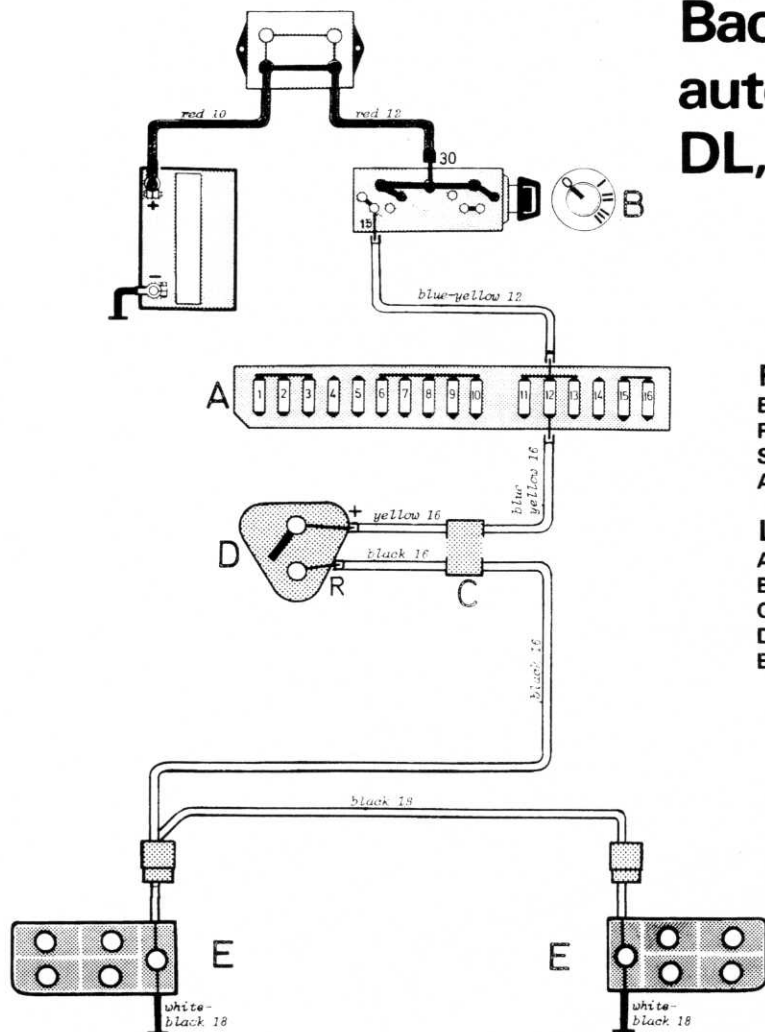
Legend:

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



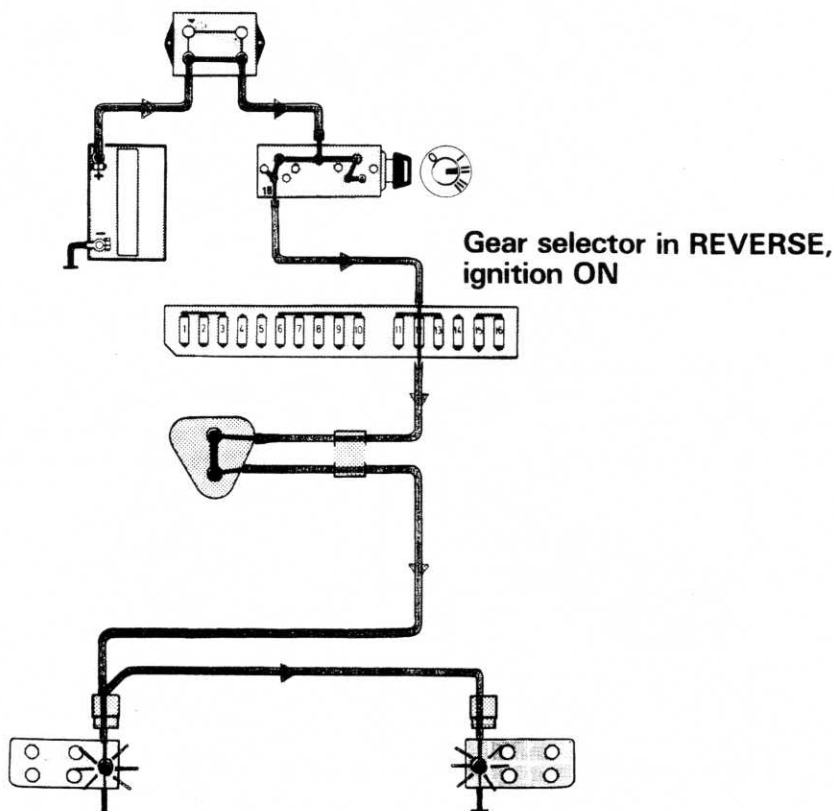


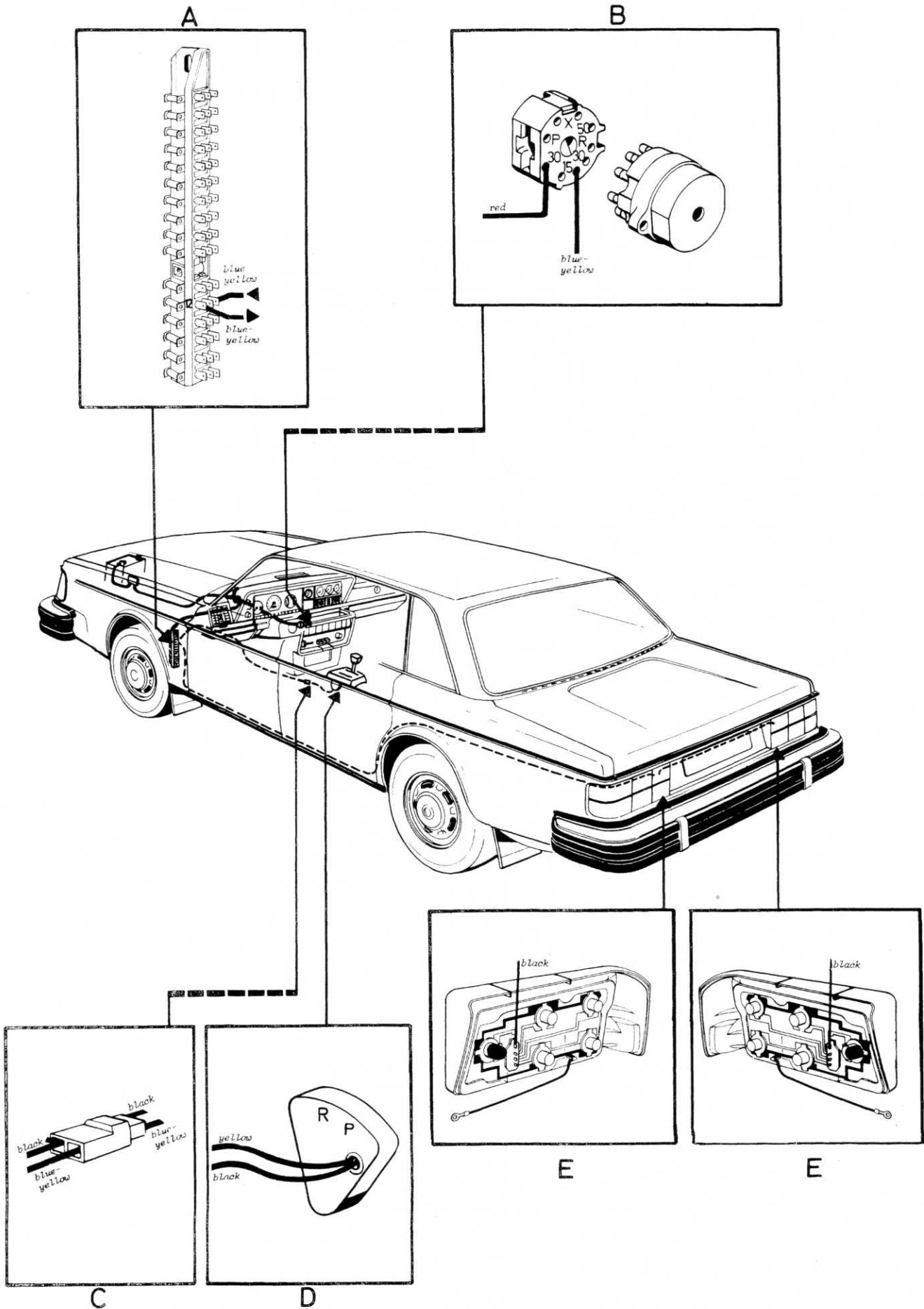
Back-up lights, automatic transmission DL, GL



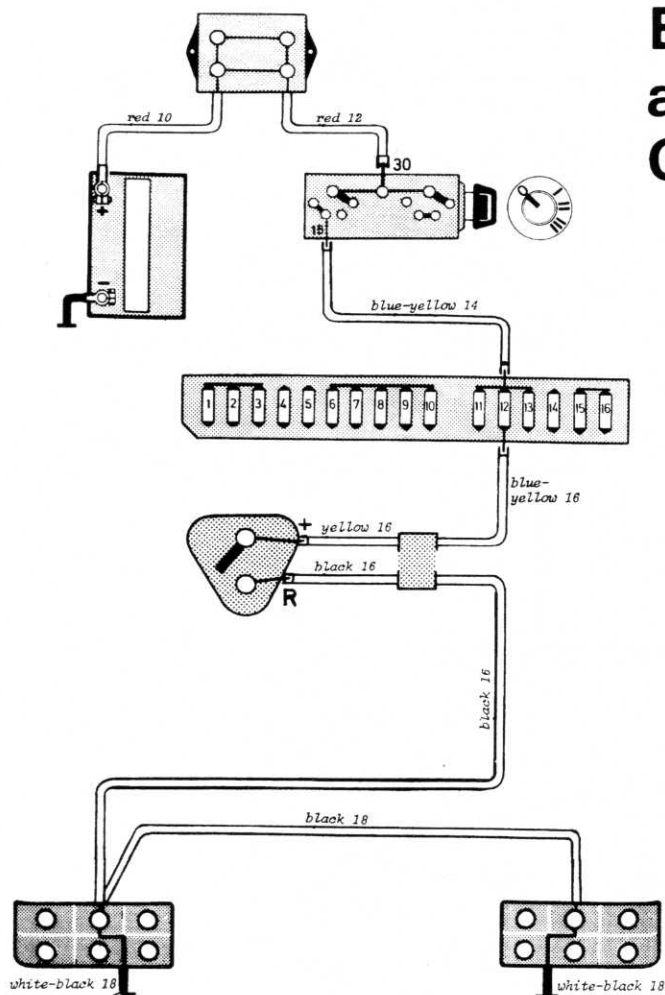
Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

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

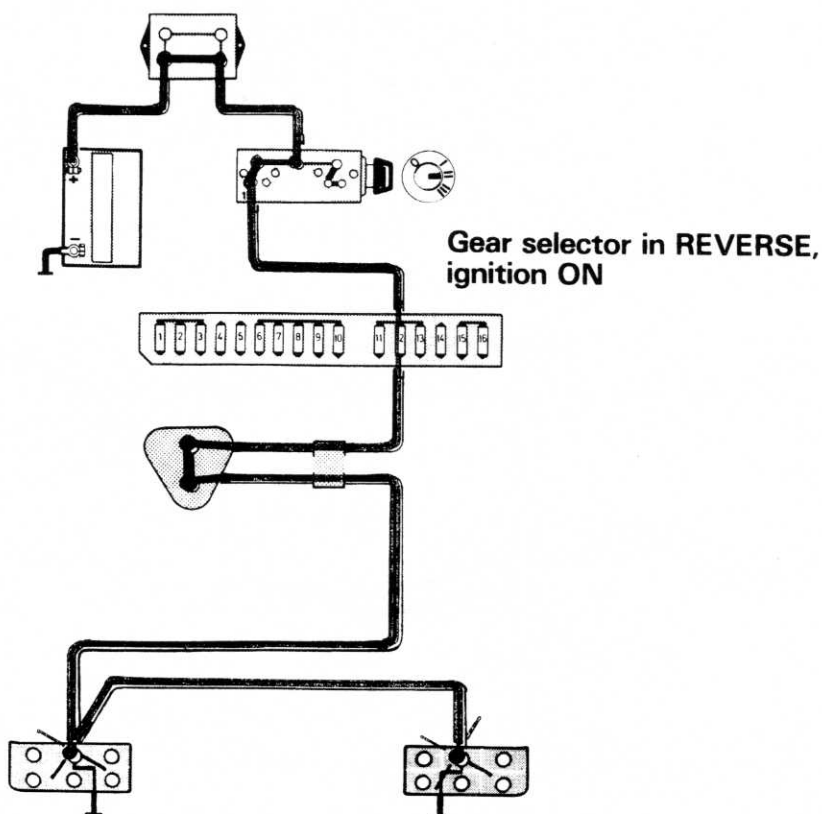


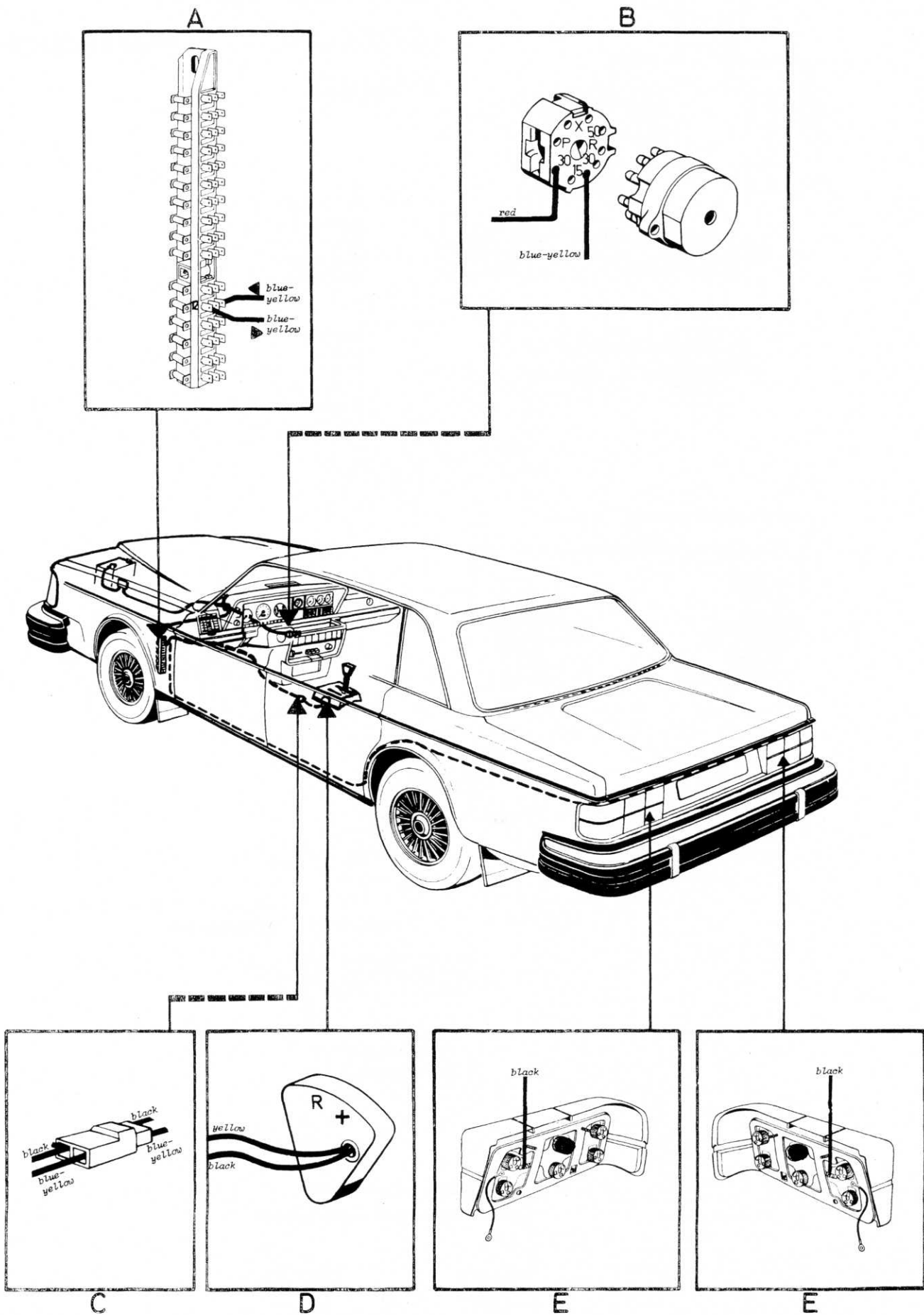
Fuse No. 12:

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

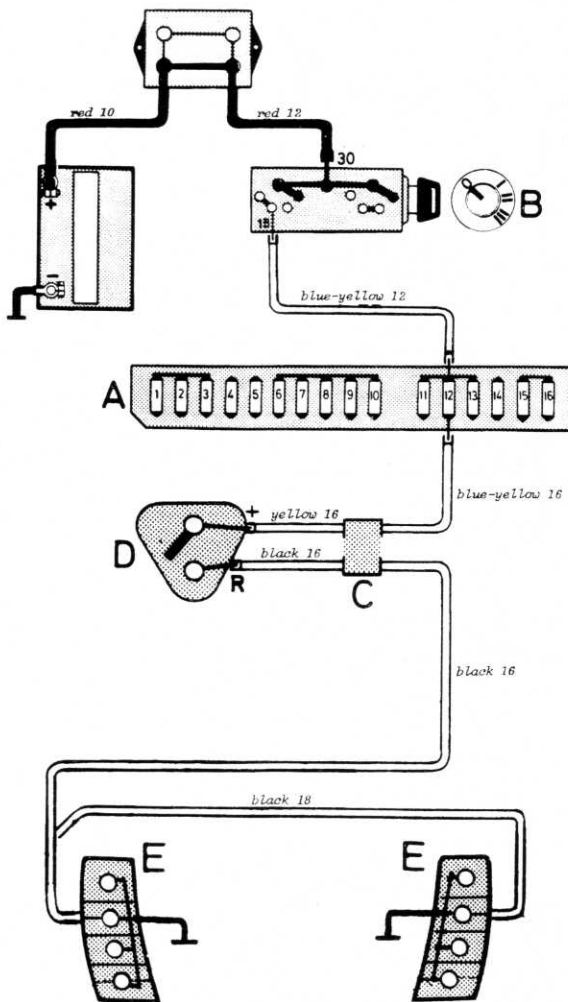
Legend:

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



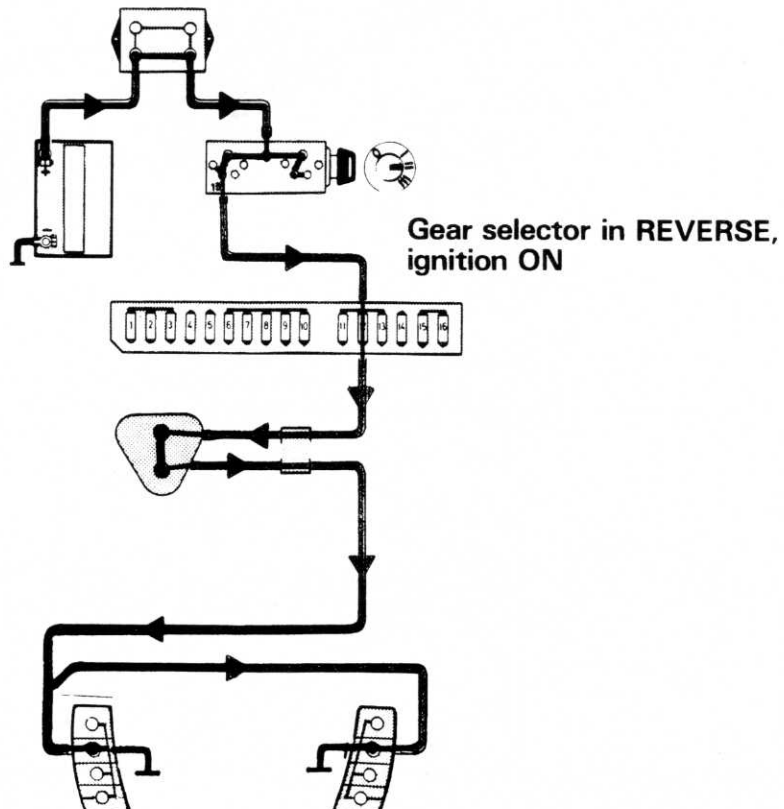


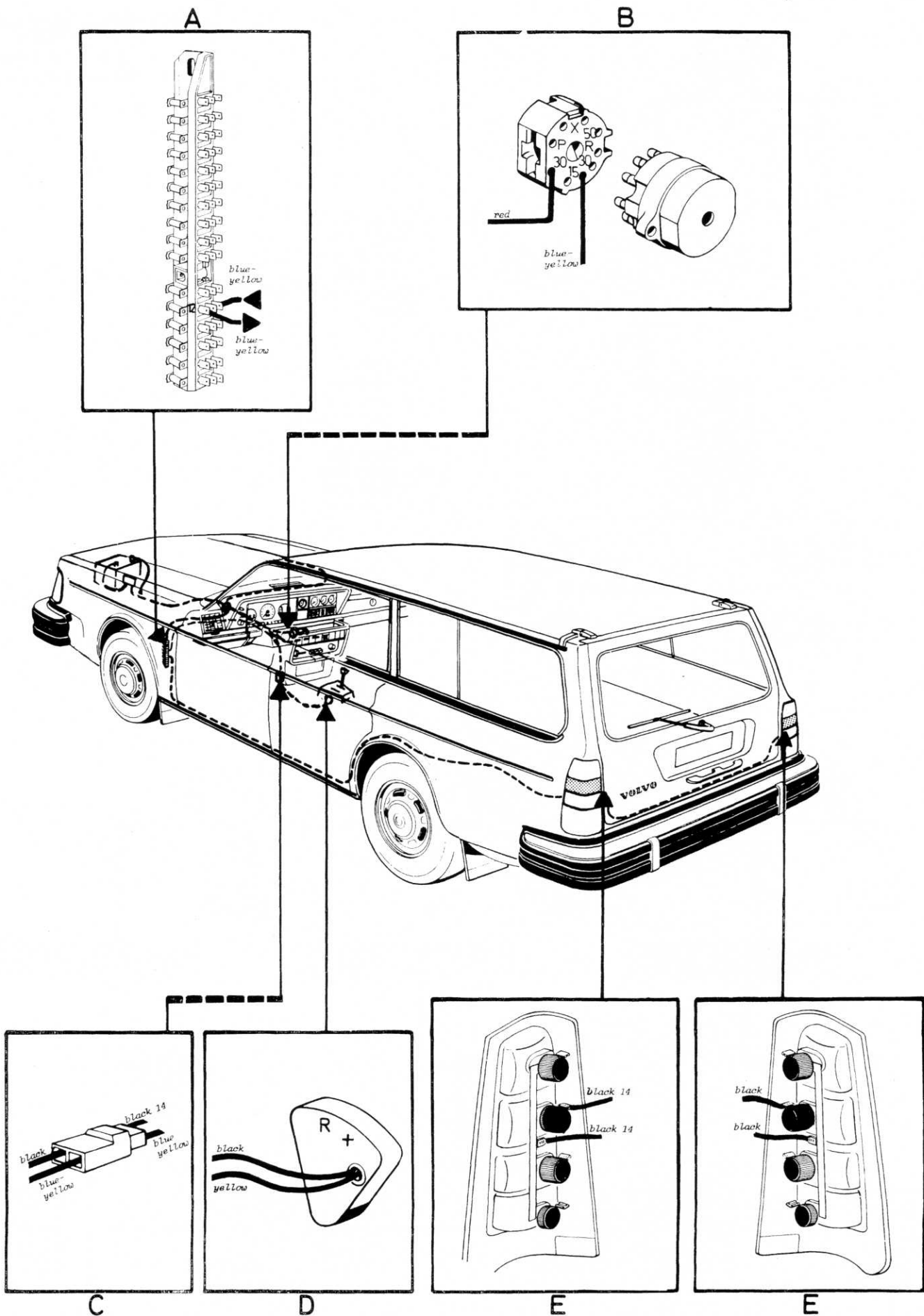
Back-up lights, automatic transmission Wagon



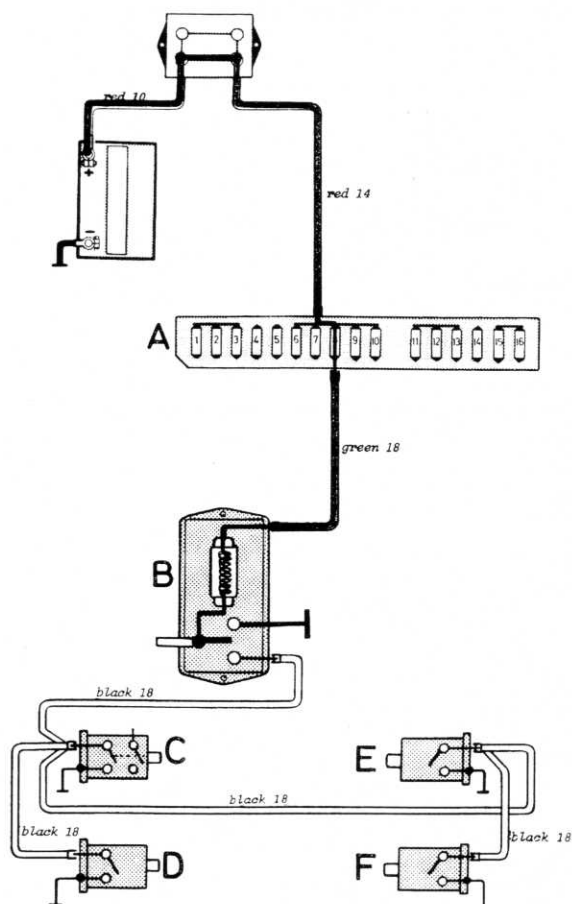
Fuse No. 12:
Back-up lights
Relay, window lifts
Seat heater
Air conditioning

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



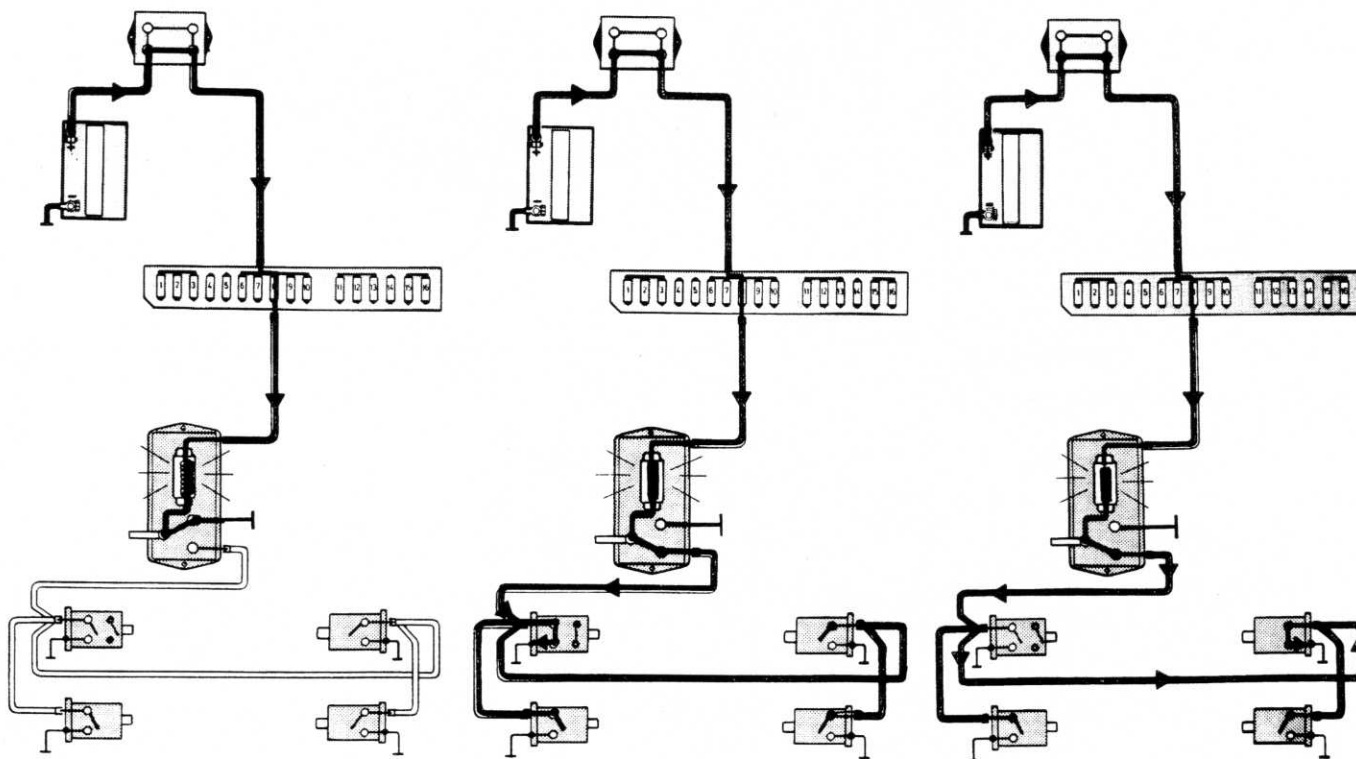


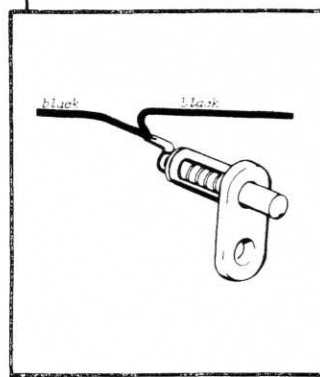
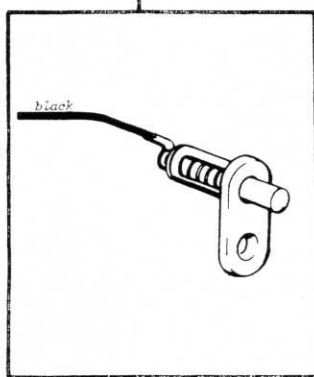
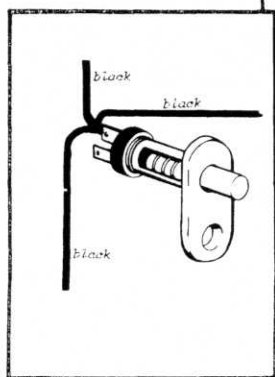
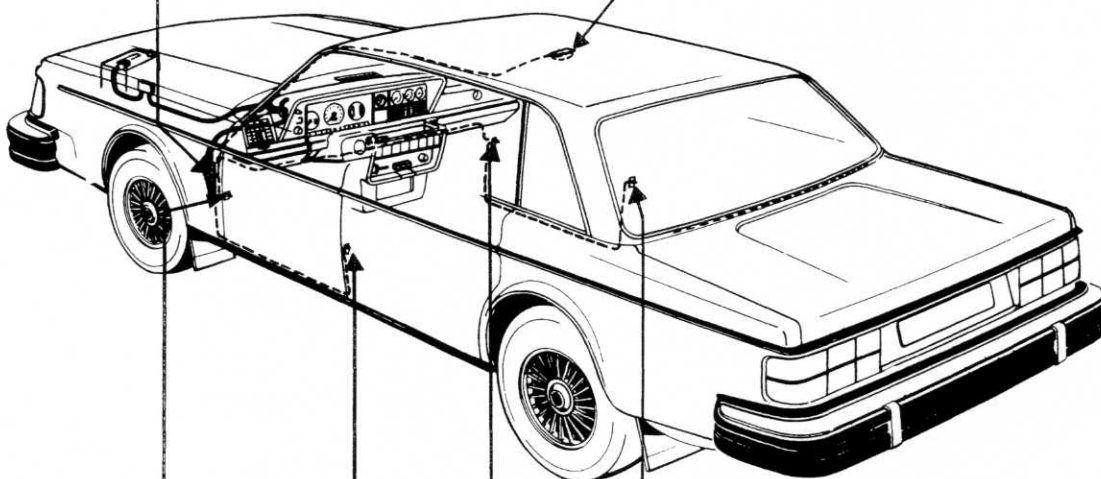
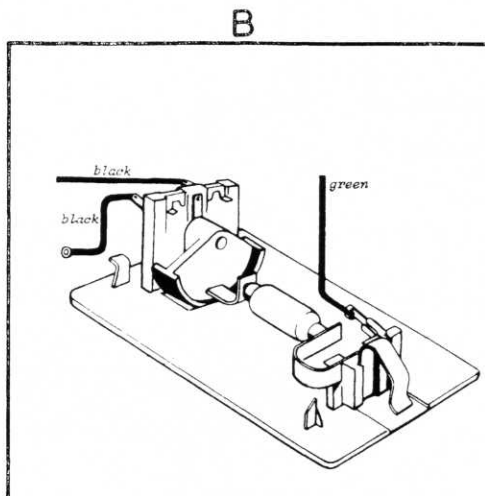
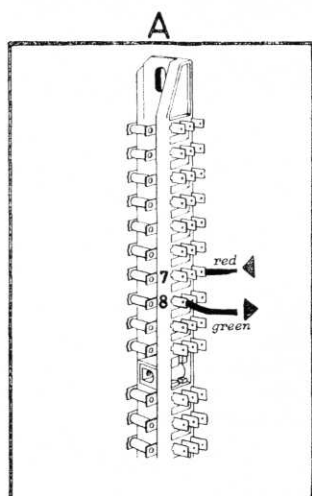
Interior light DL, GL, GLT



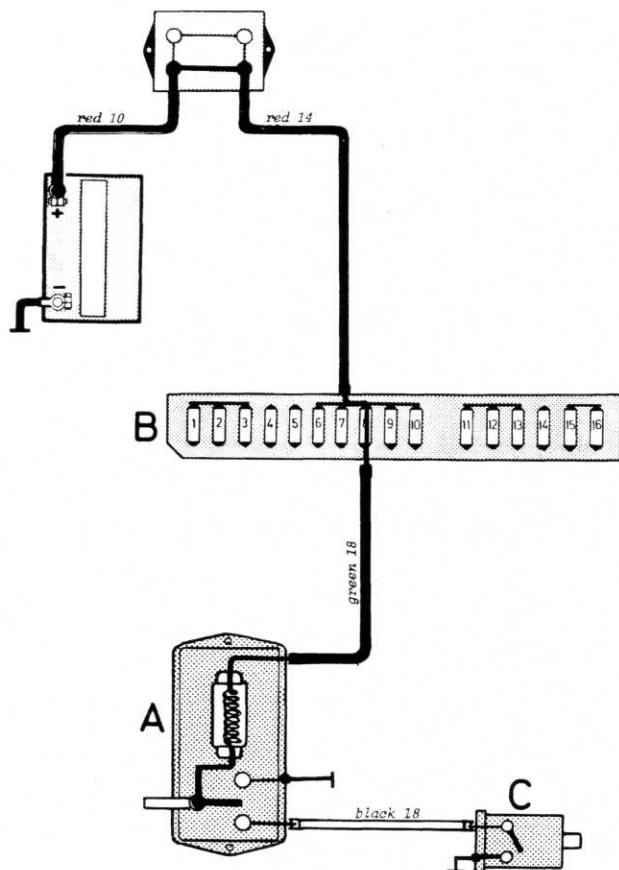
Fuse No. 8:
Interior light
Glove box light
Trunk light
Engine compartment light
Clock

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



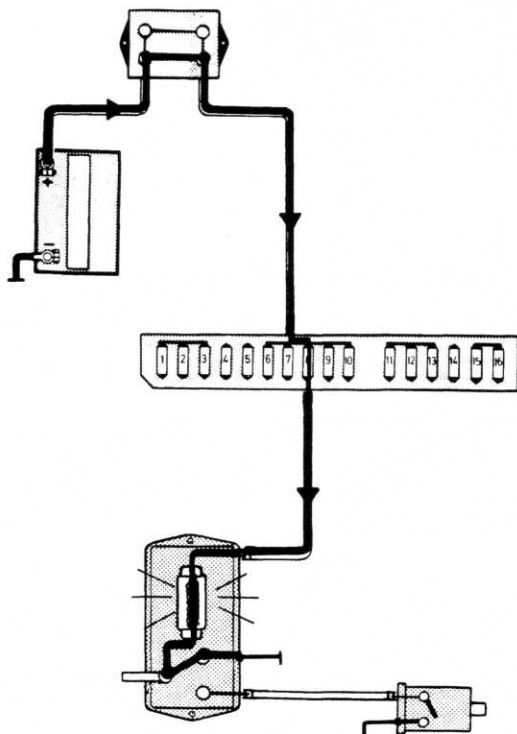
Fuse No. 8:

Interior light
Glove box light
Trunk light
Engine compartment light
Clock

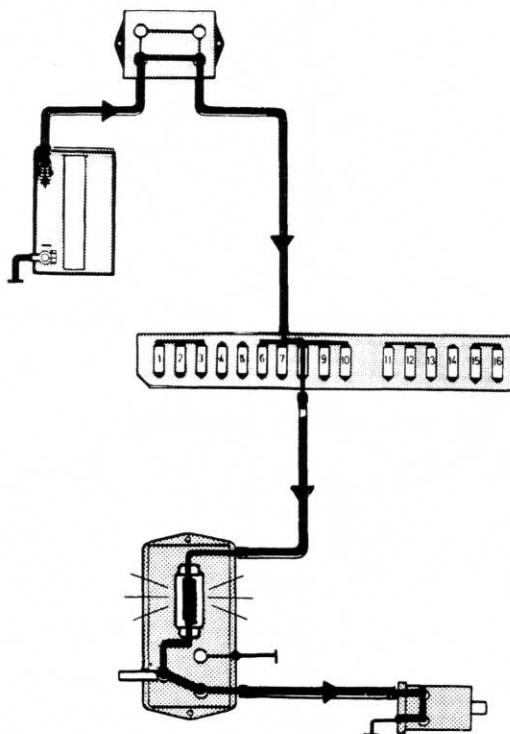
Legend:

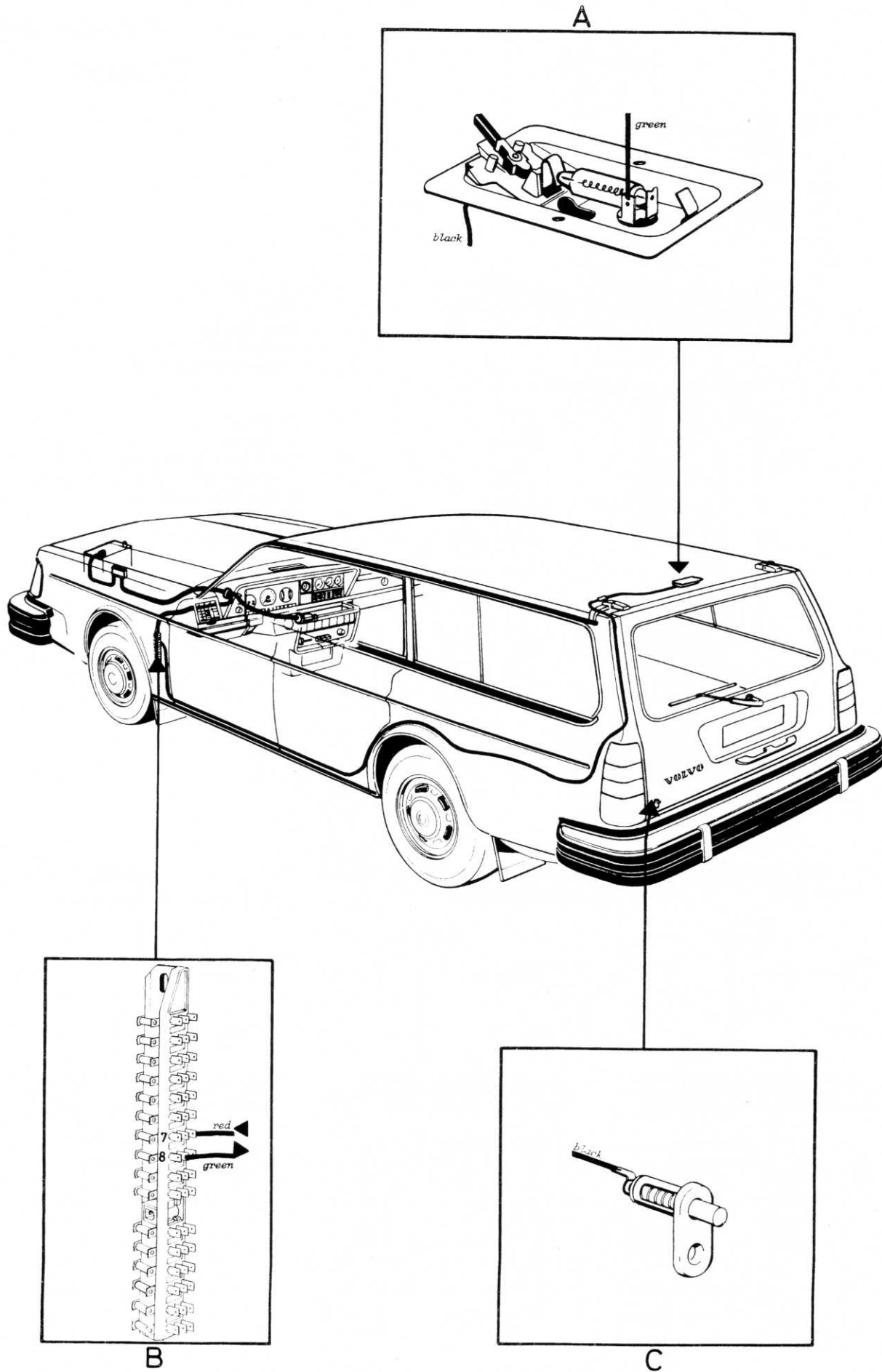
A Rear interior light
B Fuse box
C Tail gate switch

Tail gate closed,
rear interior light ON

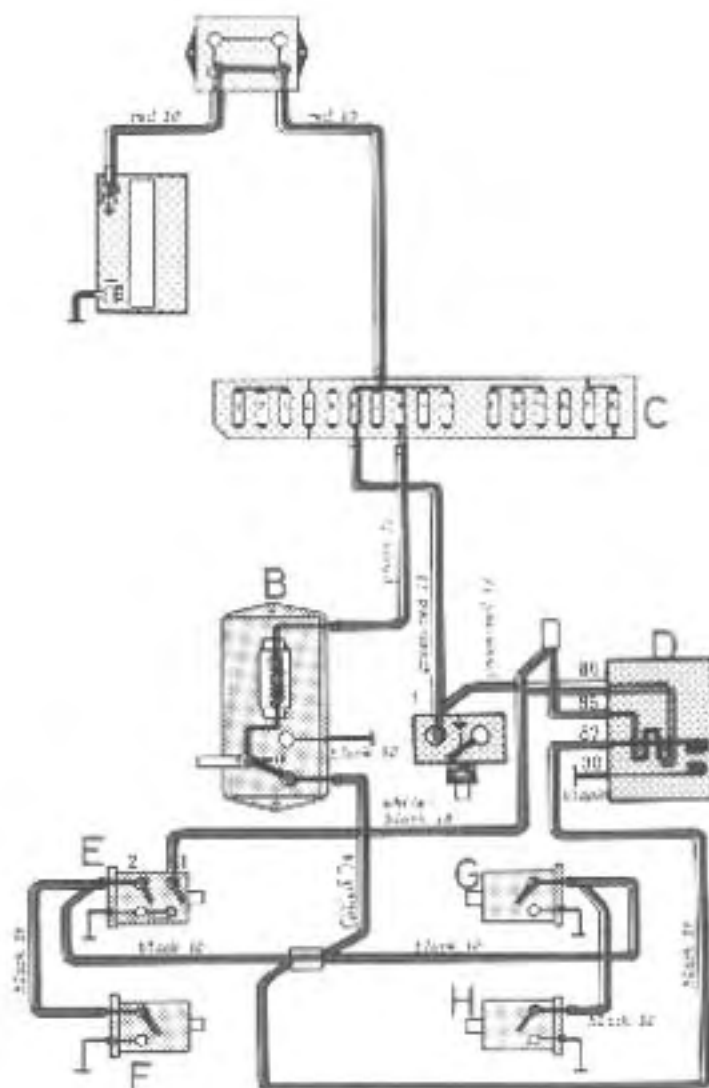


Tail gate opened





Delayed interior light GLE, GLT (High Level)



Fuse No. 6:

Brake light

Fuse No. 8:

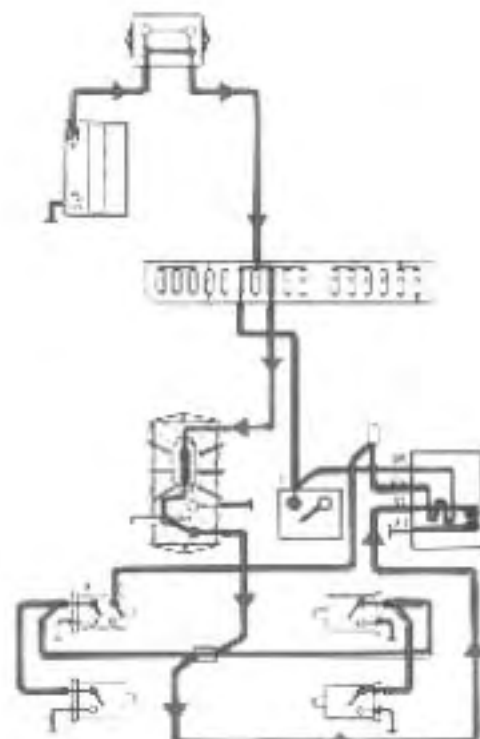
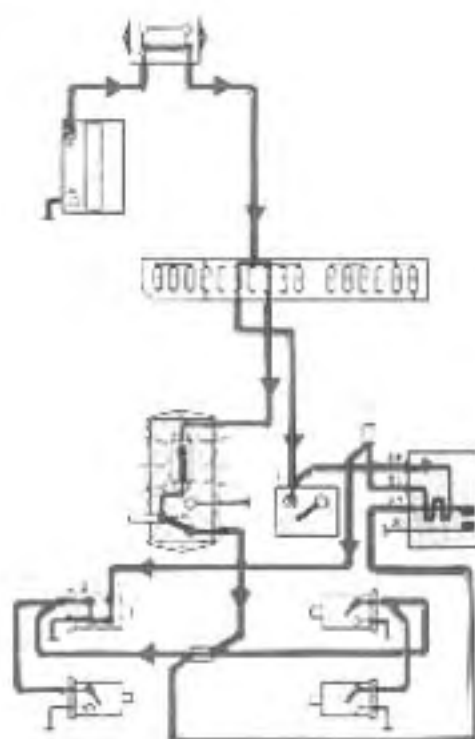
Interior light
Glove box light
Trunk light
Engine compartment light
Clock

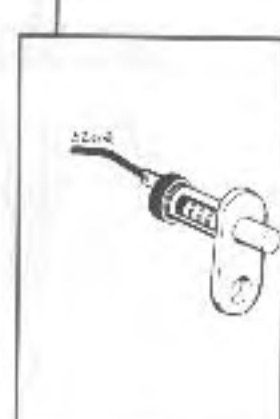
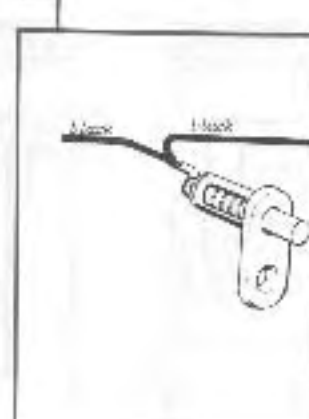
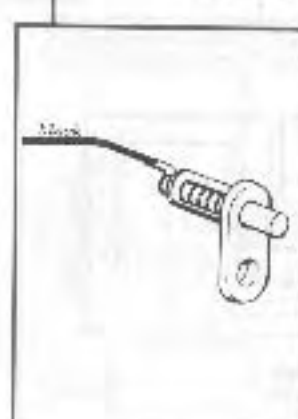
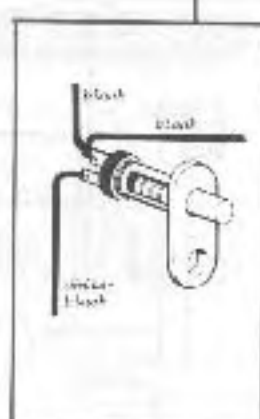
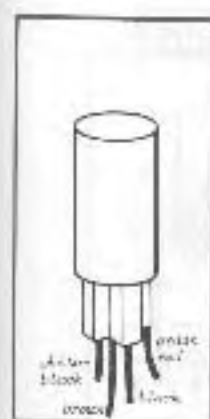
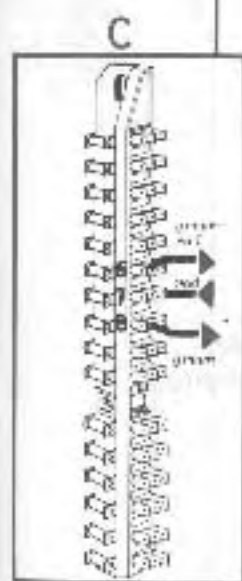
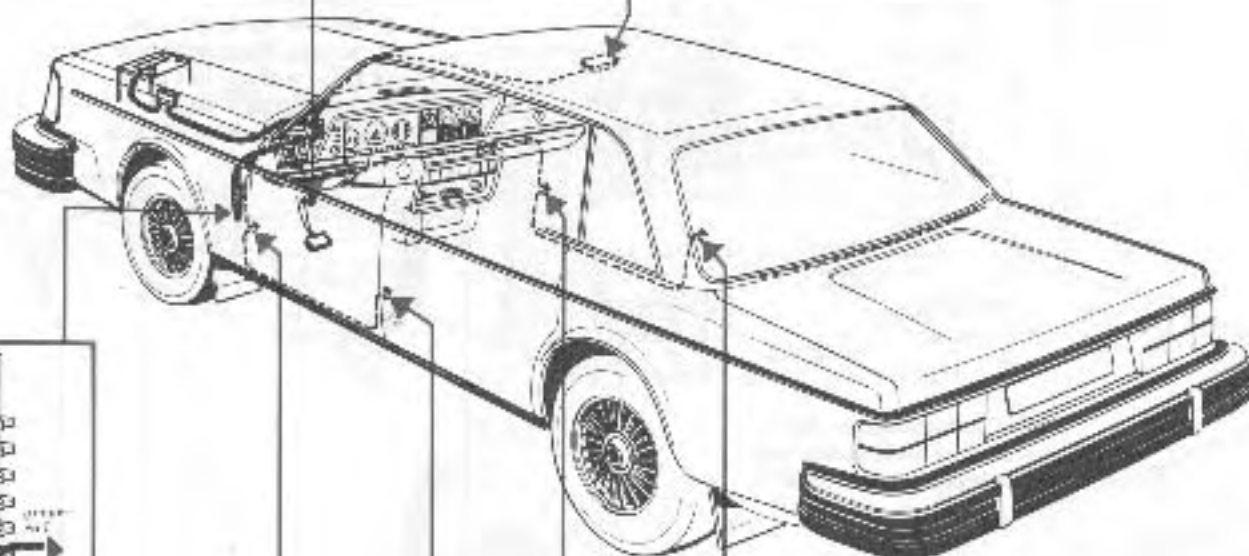
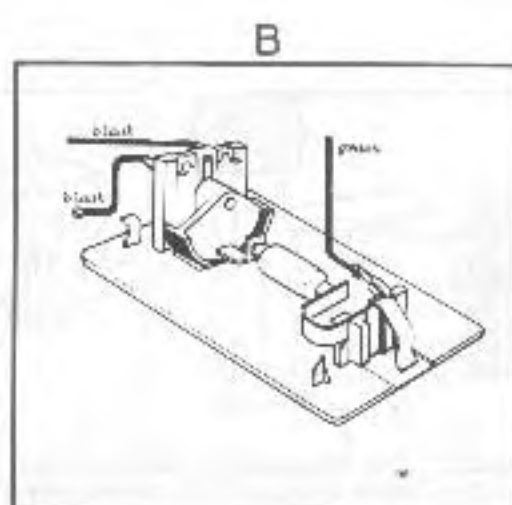
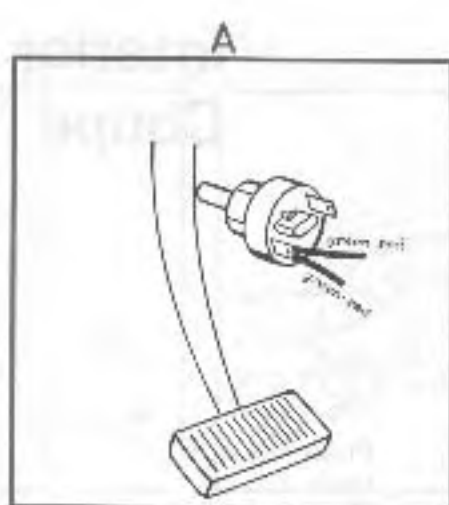
Legend:

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

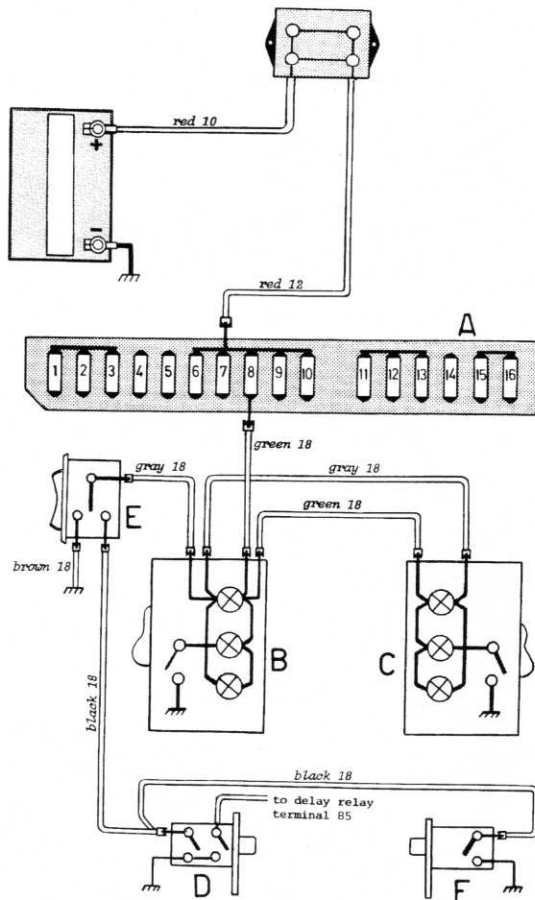
Opening left side front door.
Contacts in delay relay close by bi-metal action.

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

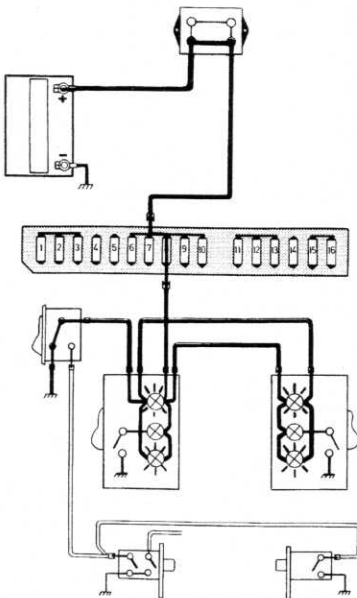
Clock
Glove box light
Interior light
Hazard warning flasher

Legend:

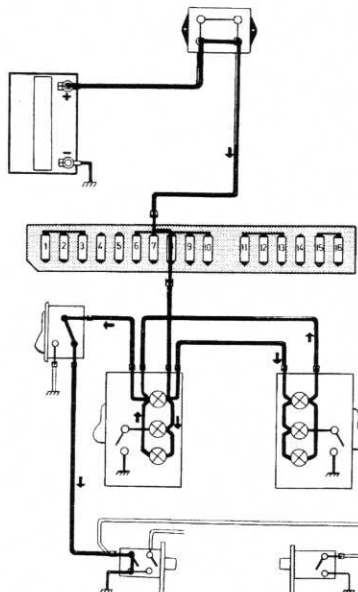
A Fuse box
B Interior light, left side
C Interior light, right side
D Door switch, left door
E Interior light switch
F Door switch, right door

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

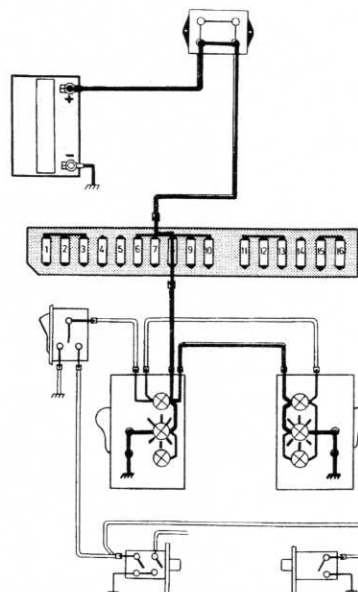
Switch on steering column in
POS 1. Light ON

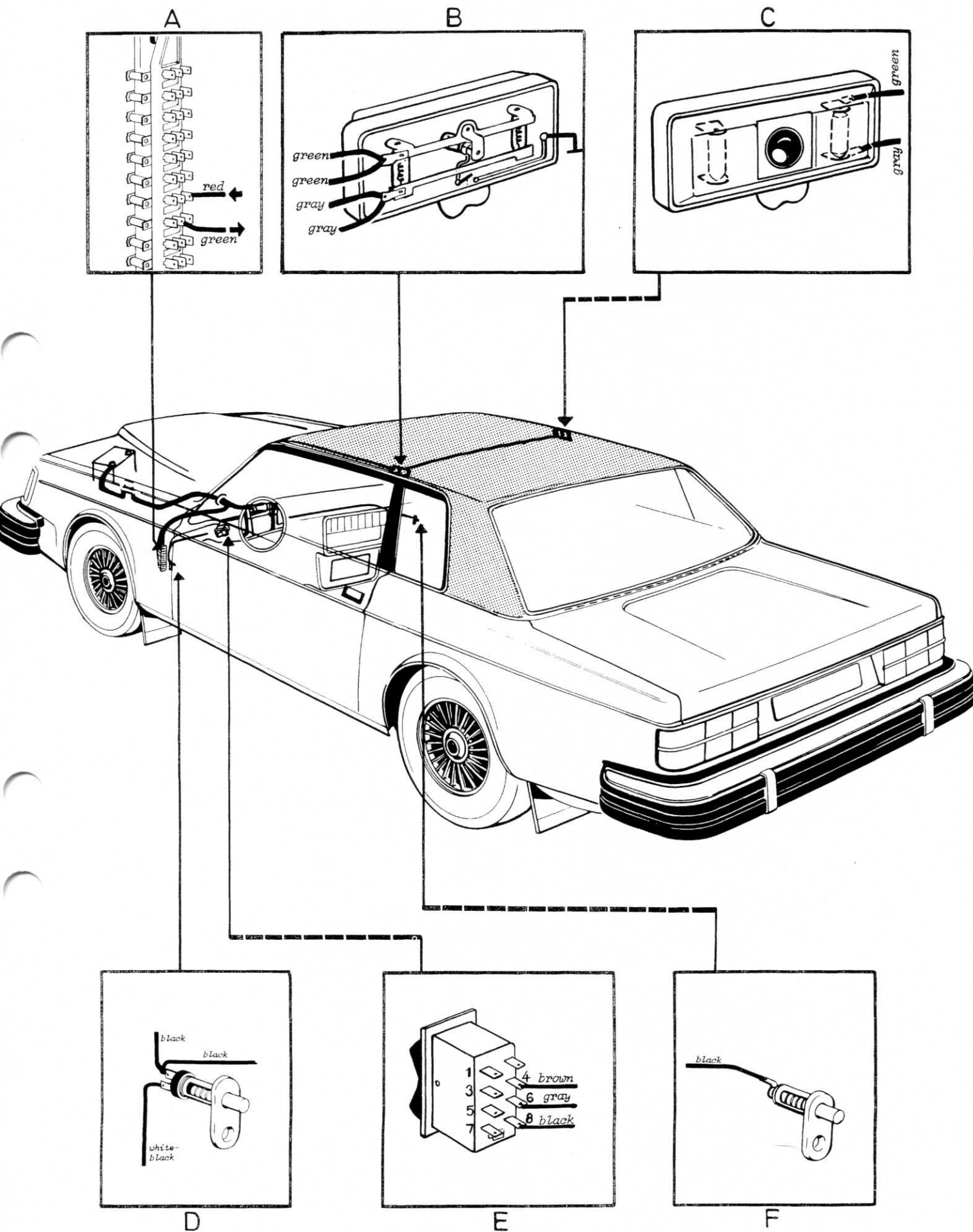


Switch on steering column
in POS 2. Light ON with
any door open.

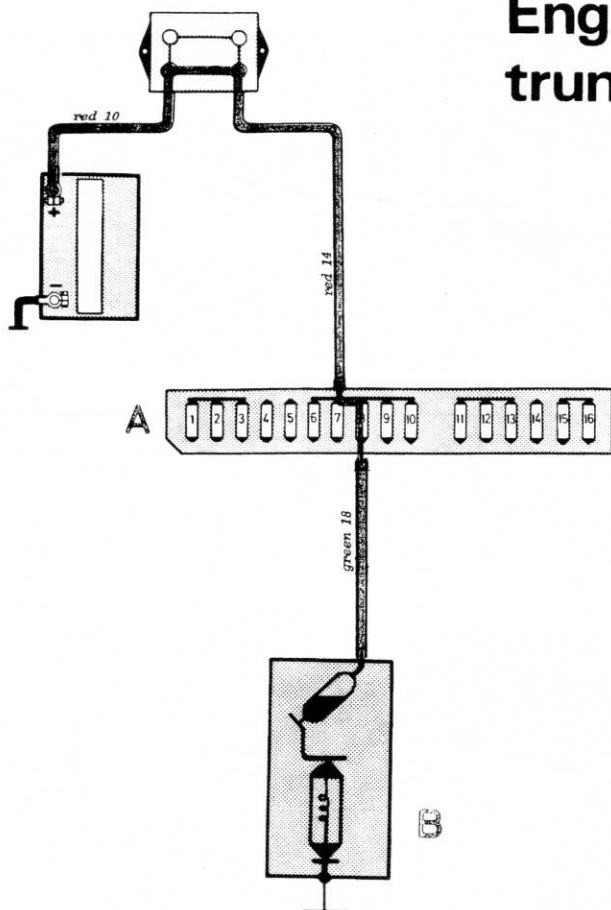


Lamp switch ON.
Spotlights illuminated.





Engine compartment light, trunk light

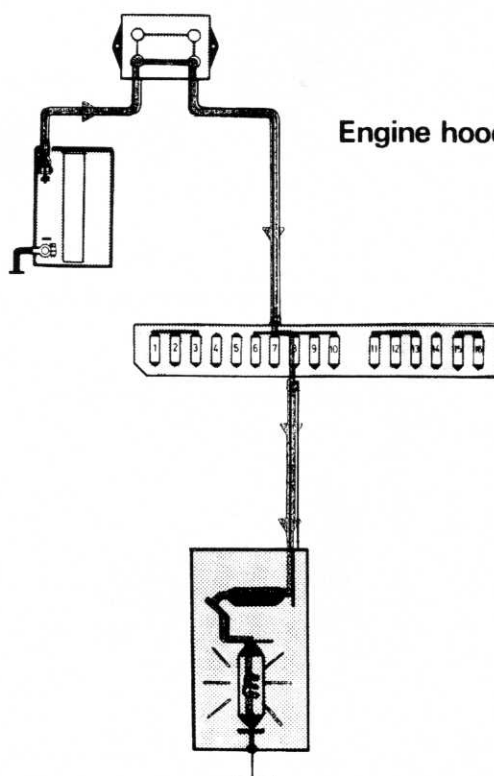


Fuse No. 8:

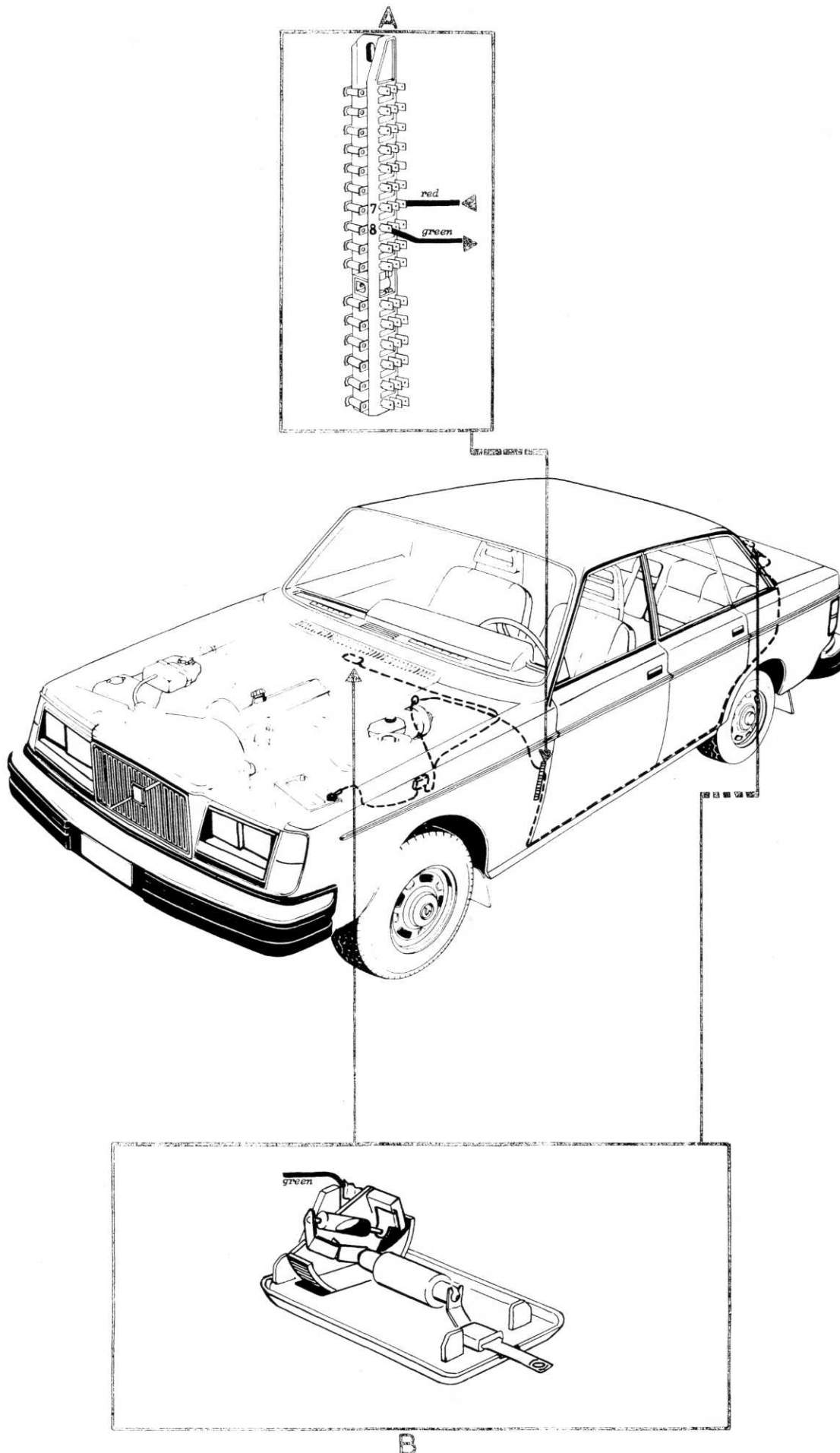
Interior light
Glove box light
Trunk light
Engine compartment light
Clock

Legend:

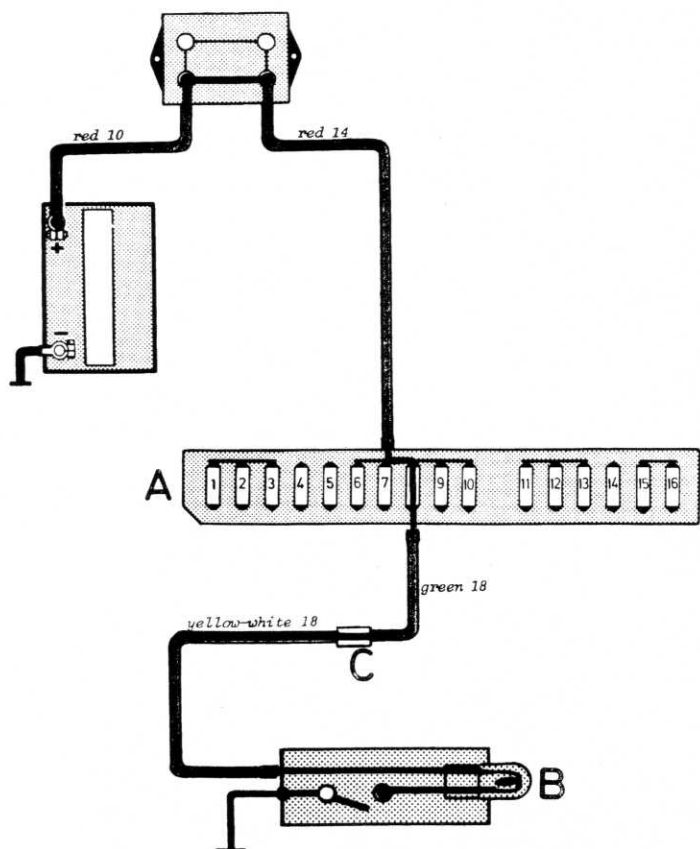
A Fuse box
B Engine compartment
light and/or trunk light



Engine hood/trunk opened



Glove box light

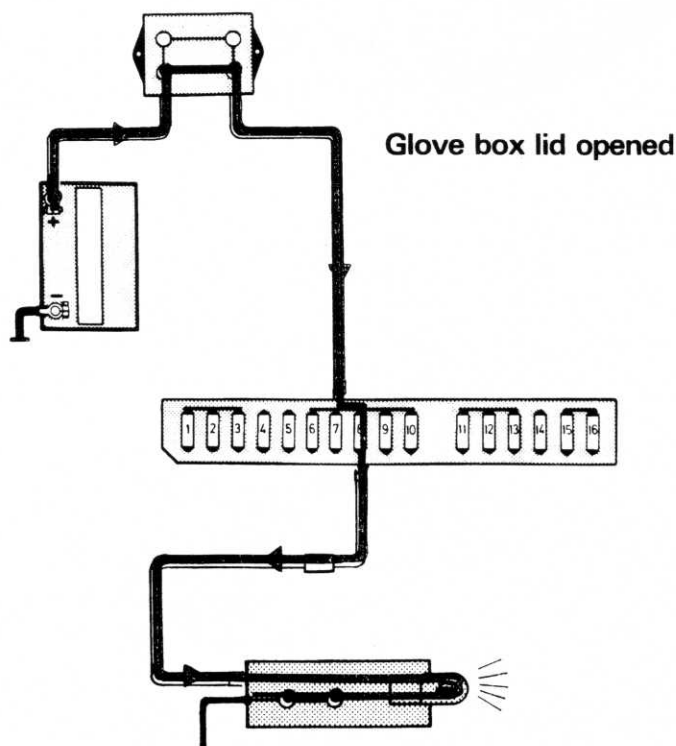


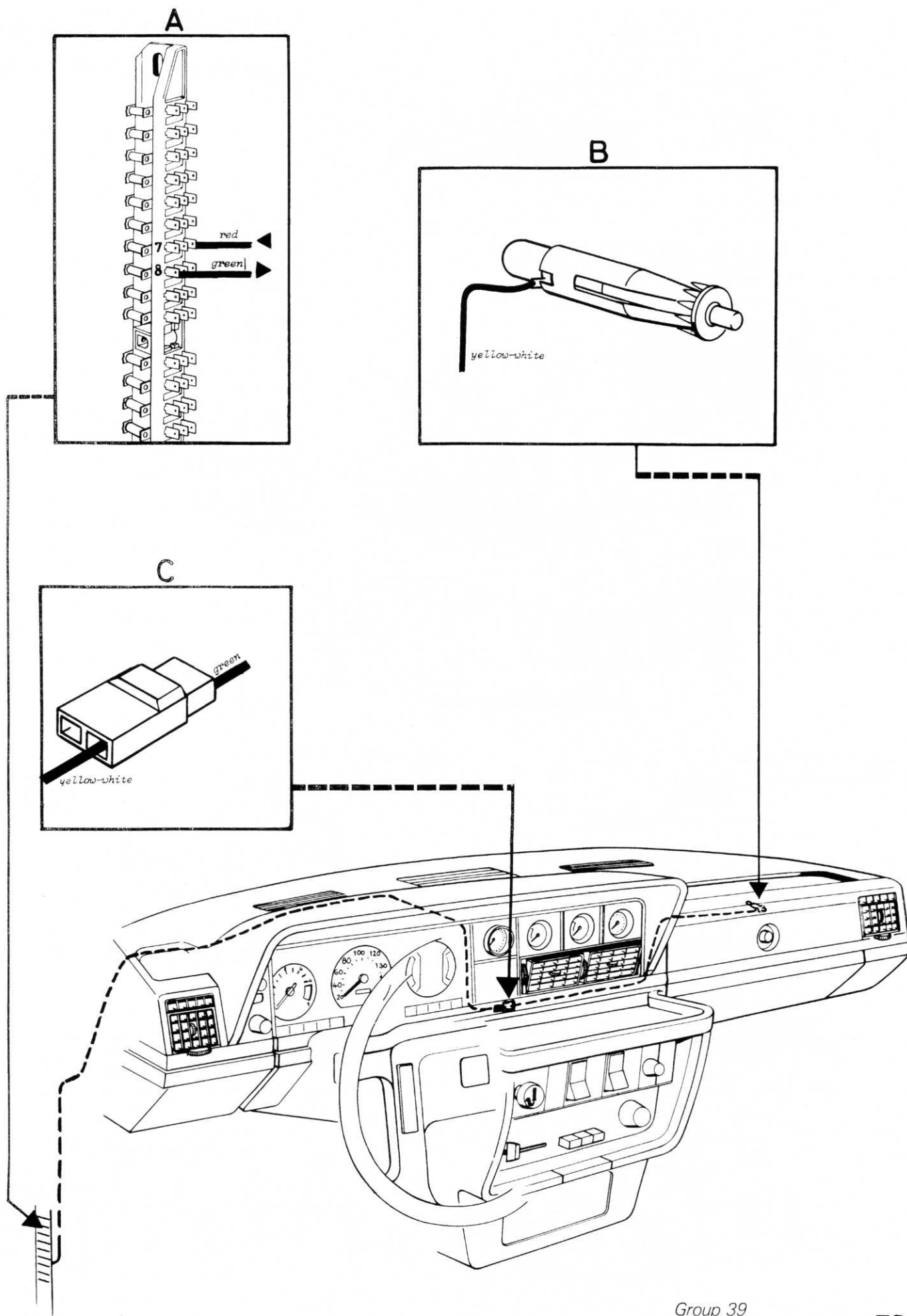
Fuse No. 8:

Interior light
Glove box light
Trunk light
Engine compartment light
Clock

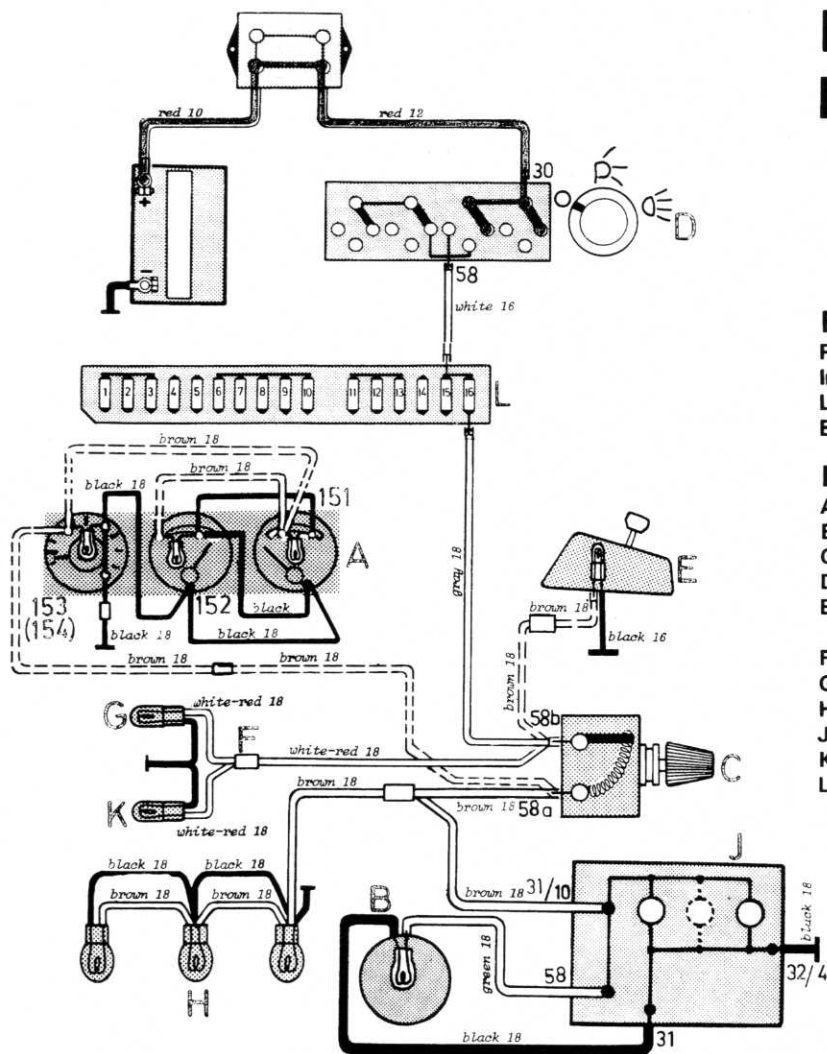
Legend:

A Fuse box
B Glove box light
C Connector





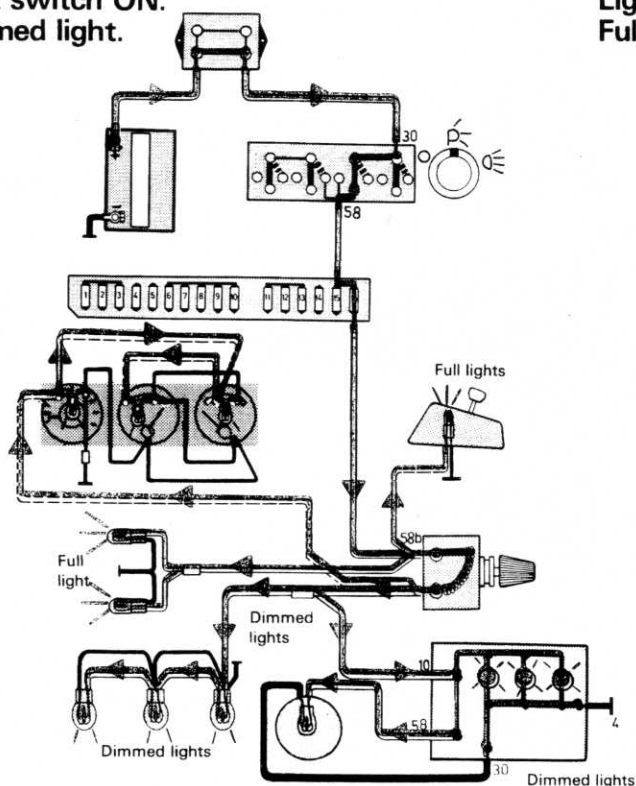
Instrument lights, lights on controls



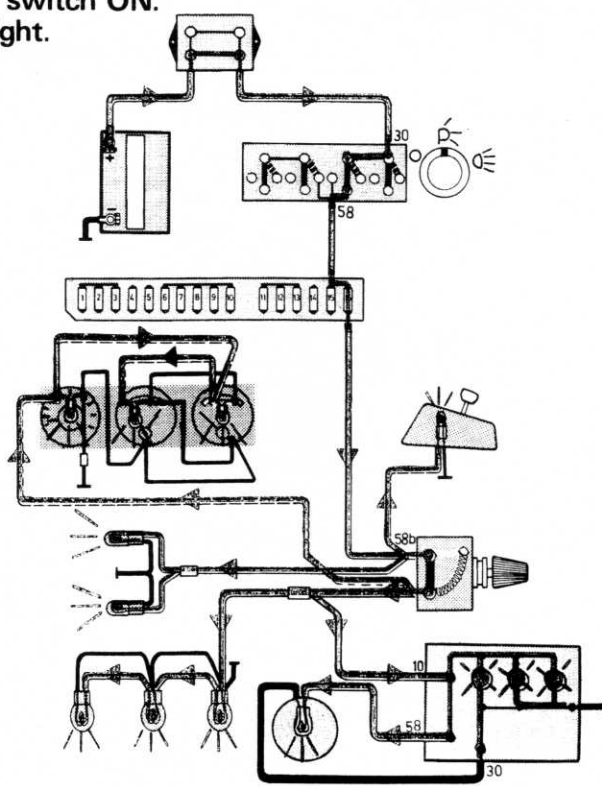
Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

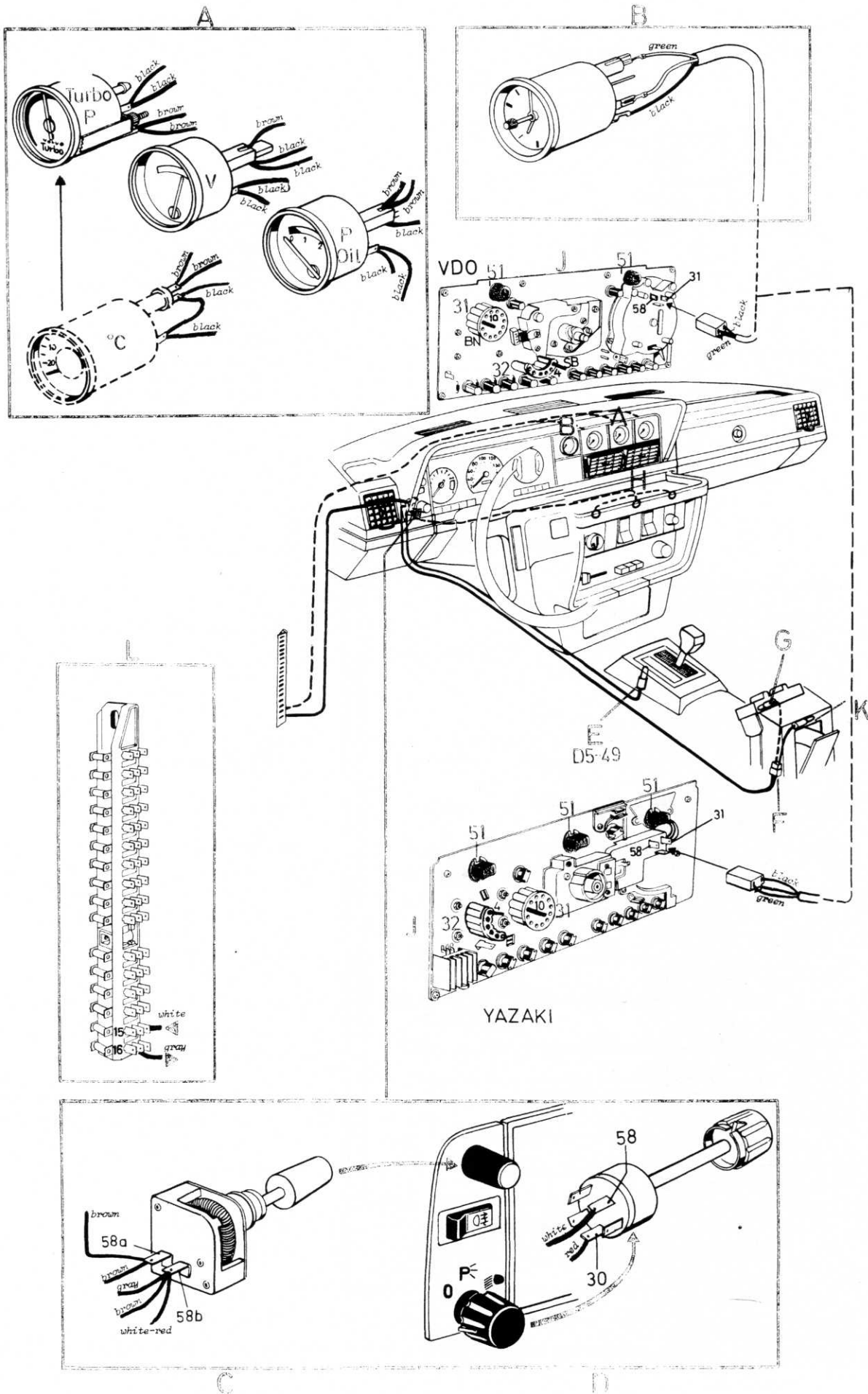
- Legend:**
- A Instrument lights
 - B Clock
 - C Rheostat
 - D Light switch
 - E Gear selector light
(automatic transmission)
 - F Connector
 - G Seat belt lock light
 - H Lights on controls
 - J Instrument lights
 - K Ash tray light
 - L Fuse box

Light switch ON.
Dimmed light.



Light switch ON.
Full light.





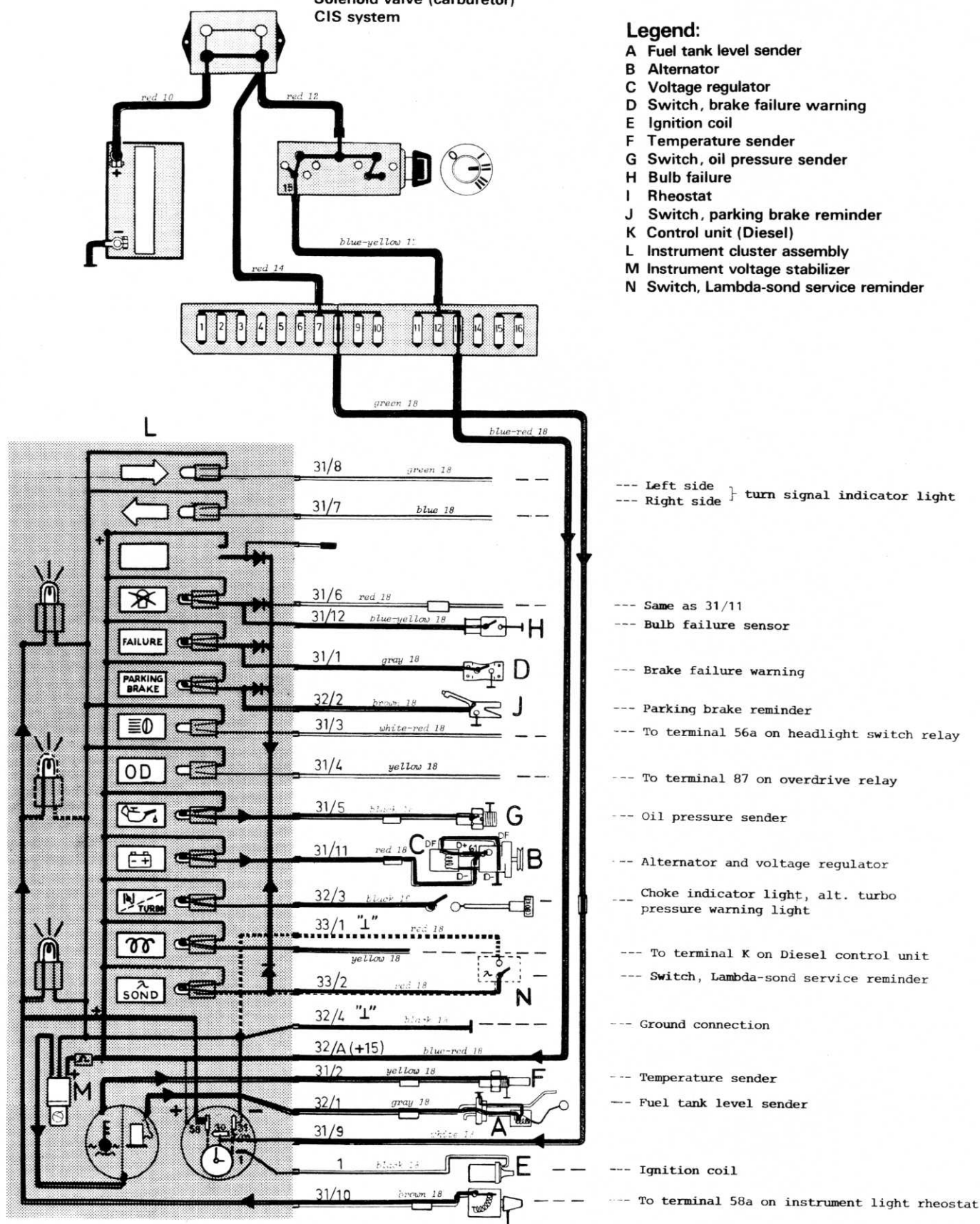
Fuse No. 6:
Brake lights

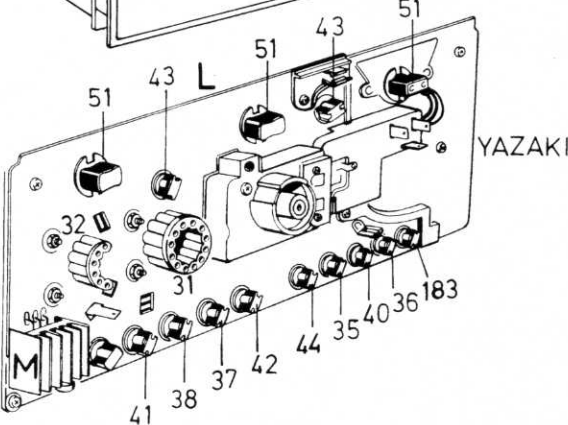
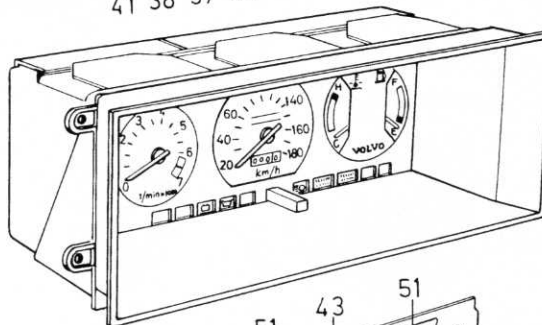
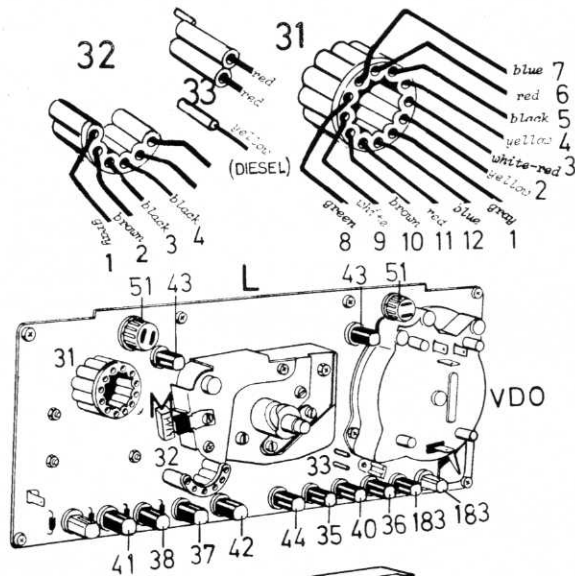
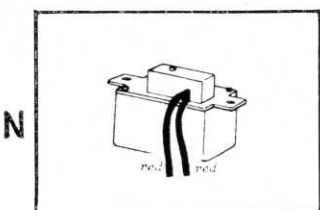
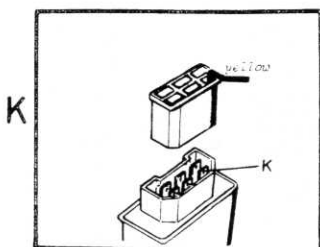
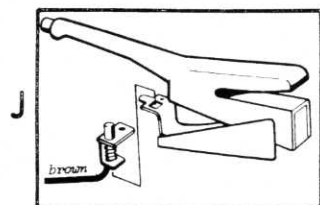
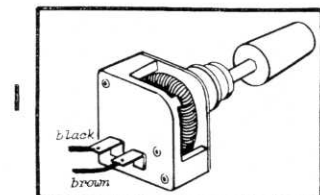
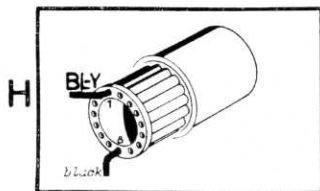
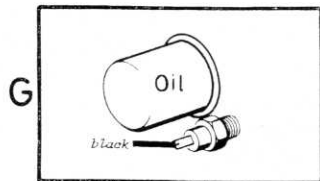
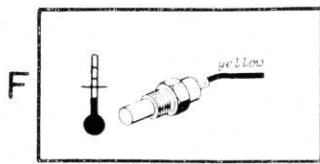
Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)
CIS system

Instrument cluster

Legend:

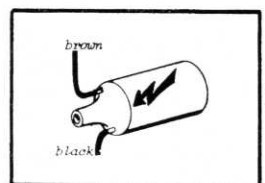
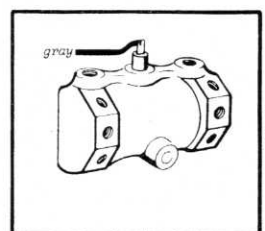
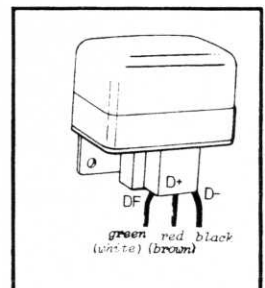
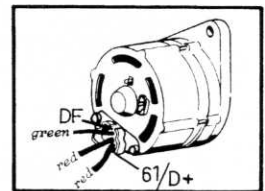
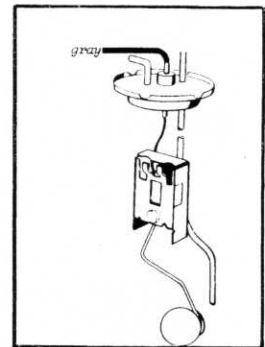
- A Fuel tank level sender
- B Alternator
- C Voltage regulator
- D Switch, brake failure warning
- E Ignition coil
- F Temperature sender
- G Switch, oil pressure sender
- H Bulb failure
- I Rheostat
- J Switch, parking brake reminder
- K Control unit (Diesel)
- L Instrument cluster assembly
- M Instrument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



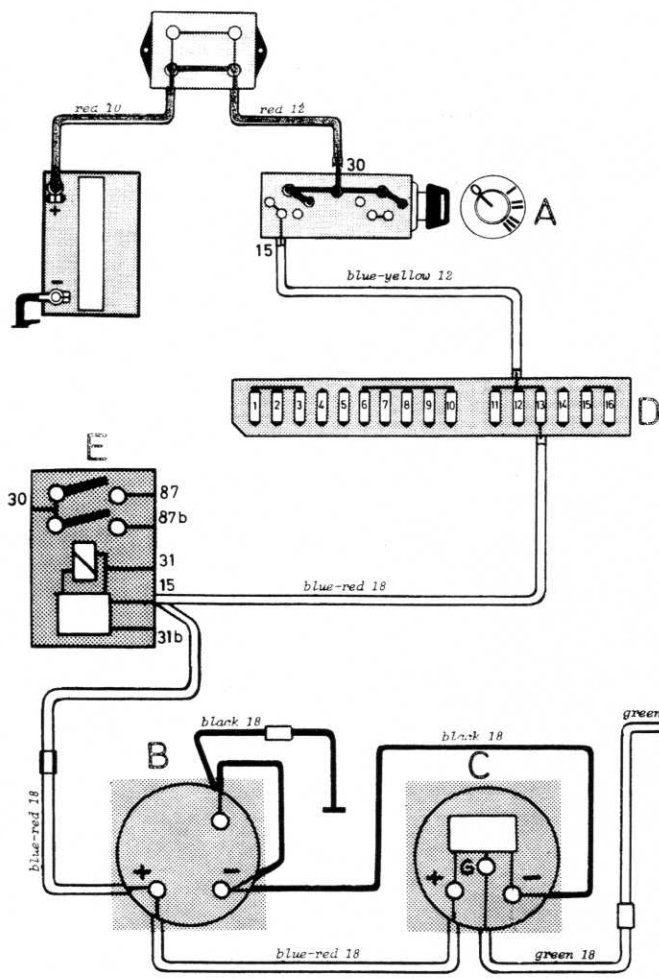


**Legend,
instrument assembly:**

- 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

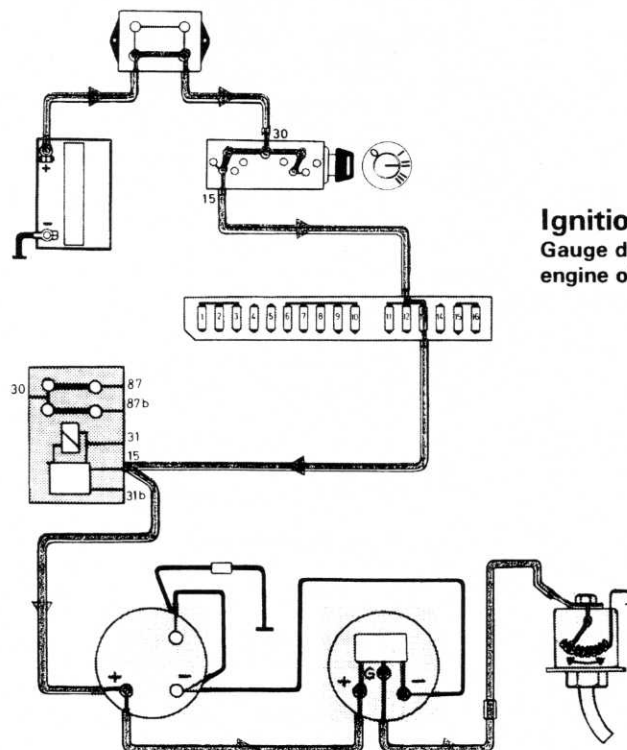


Fuse No. 13:

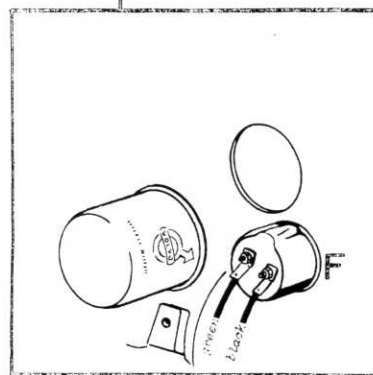
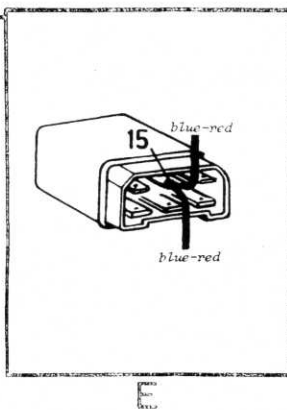
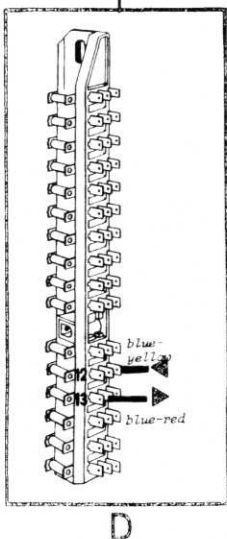
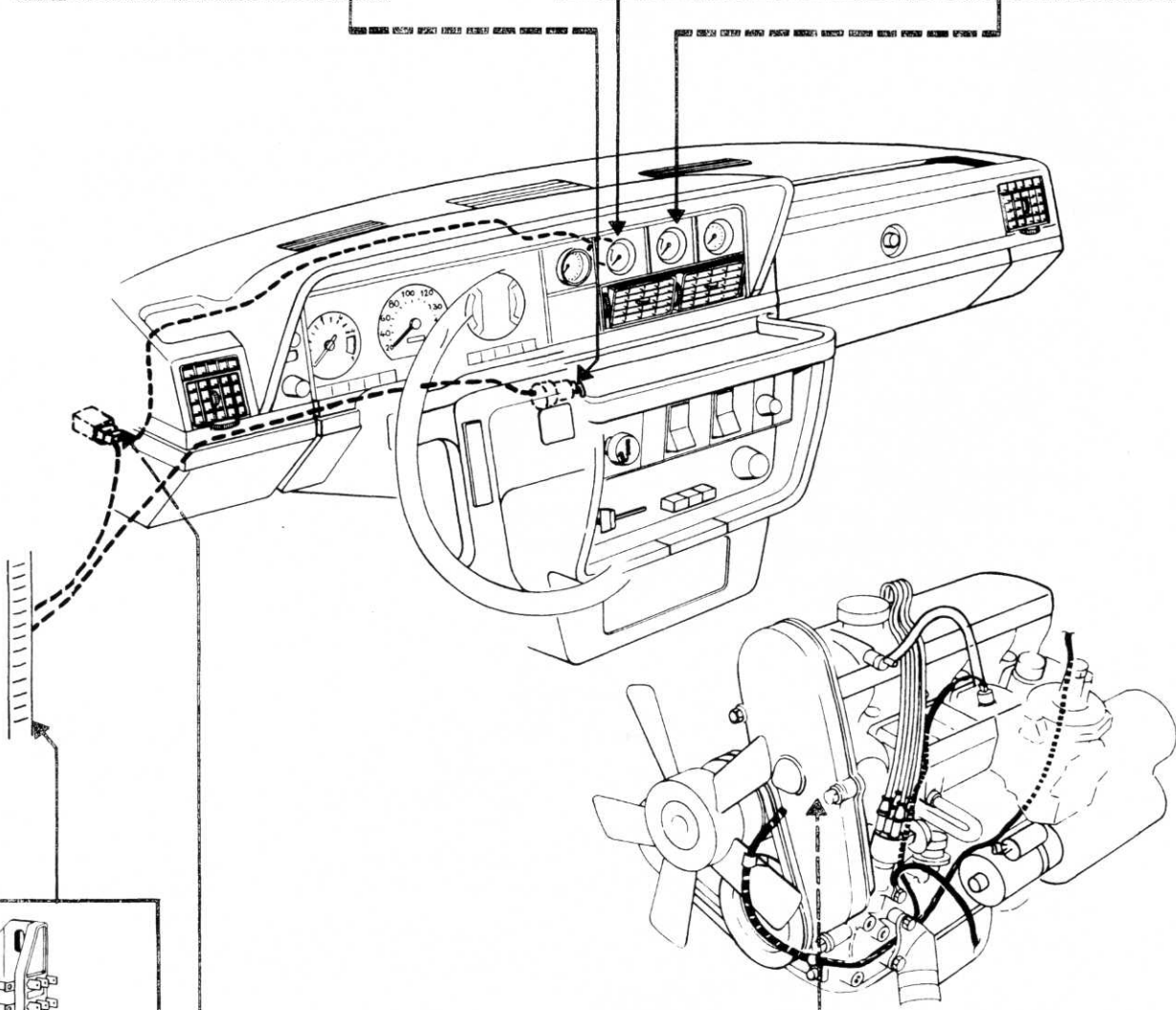
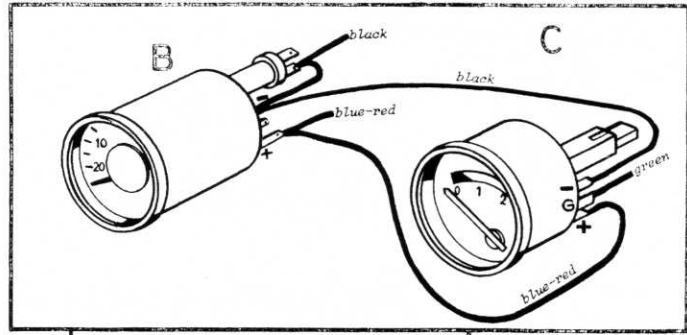
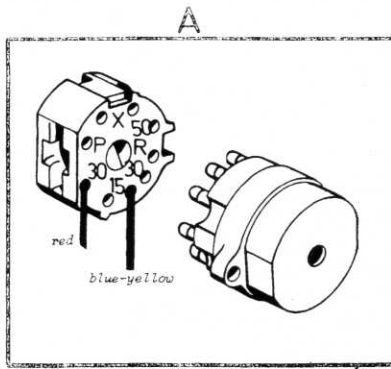
Instrument cluster
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)
CIS system
Oil pressure gauge
Voltmeter
Ambient temperature gauge

Legend:

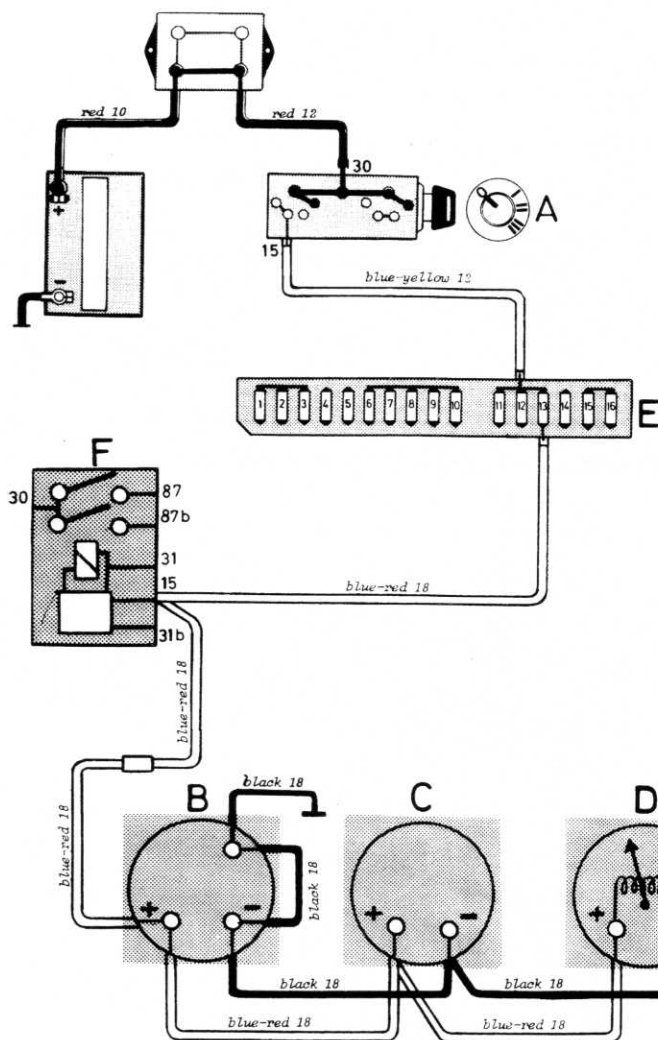
- A Ignition switch
- B Ambient temperature gauge, alt. Turbo discharge pressure gauge
- C Oil pressure gauge
- D Fuse box
- E Fuel pump relay
- F Oil pressure gauge



Ignition ON:
Gauge displays
engine oil pressure.

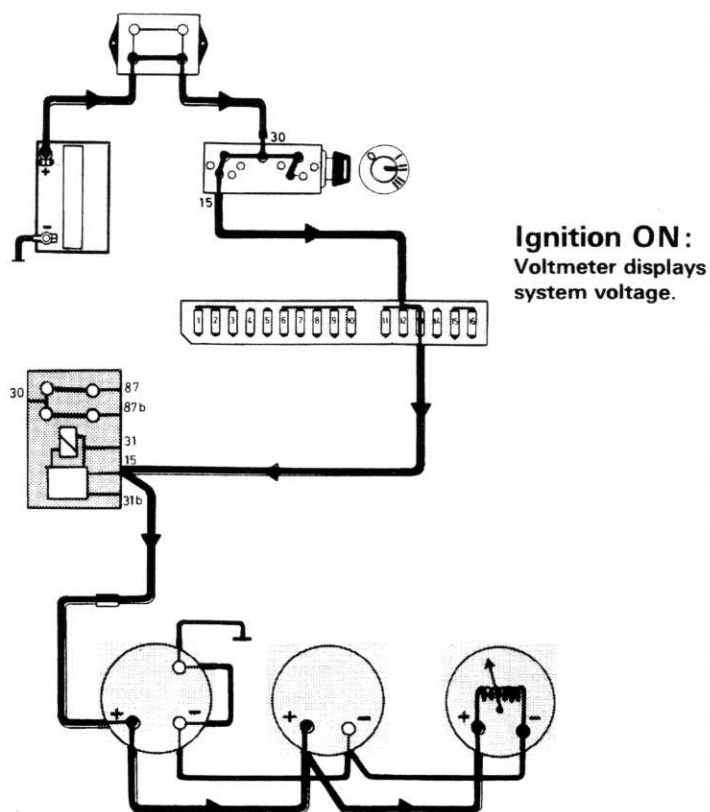


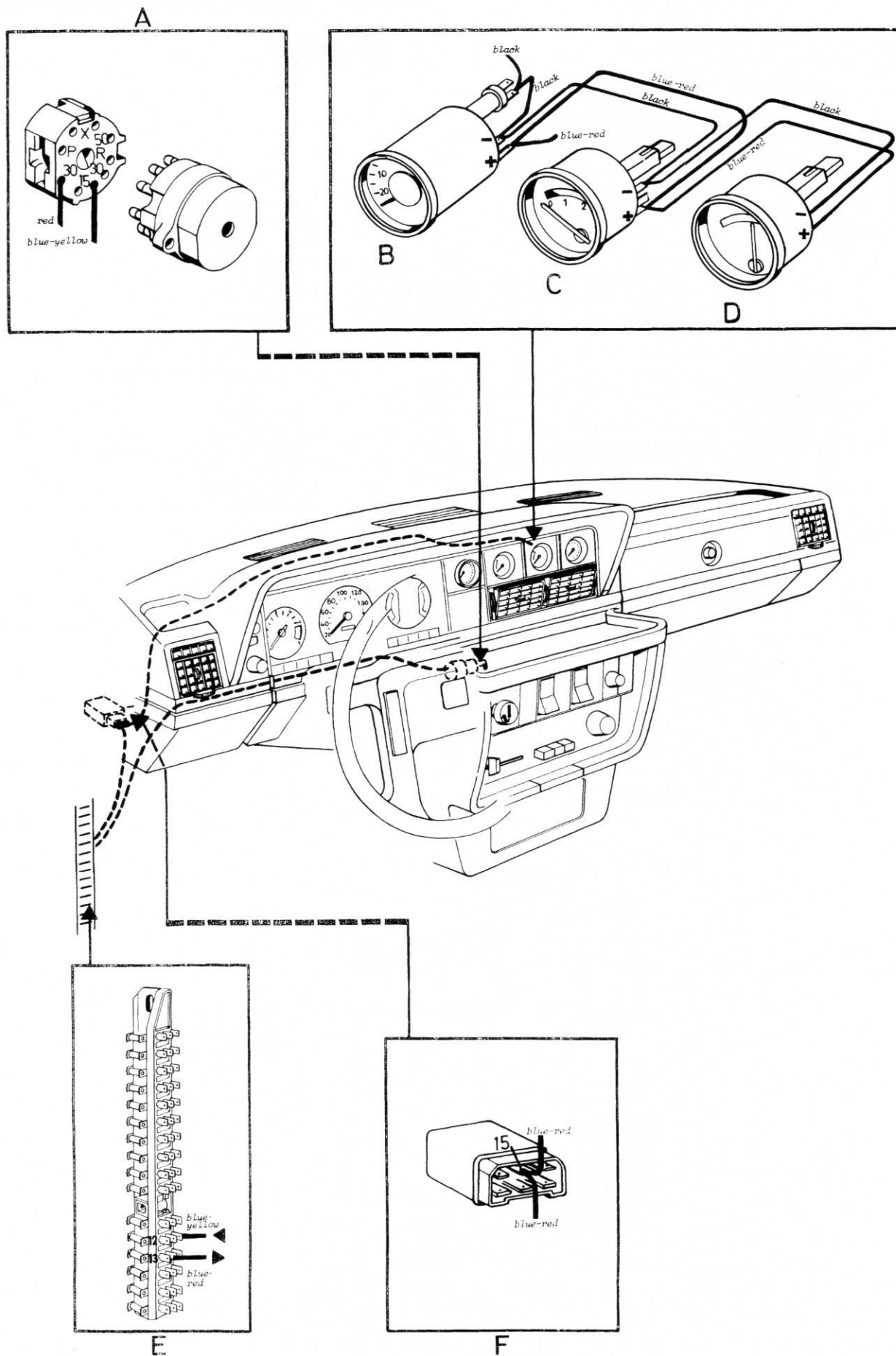
Voltmeter



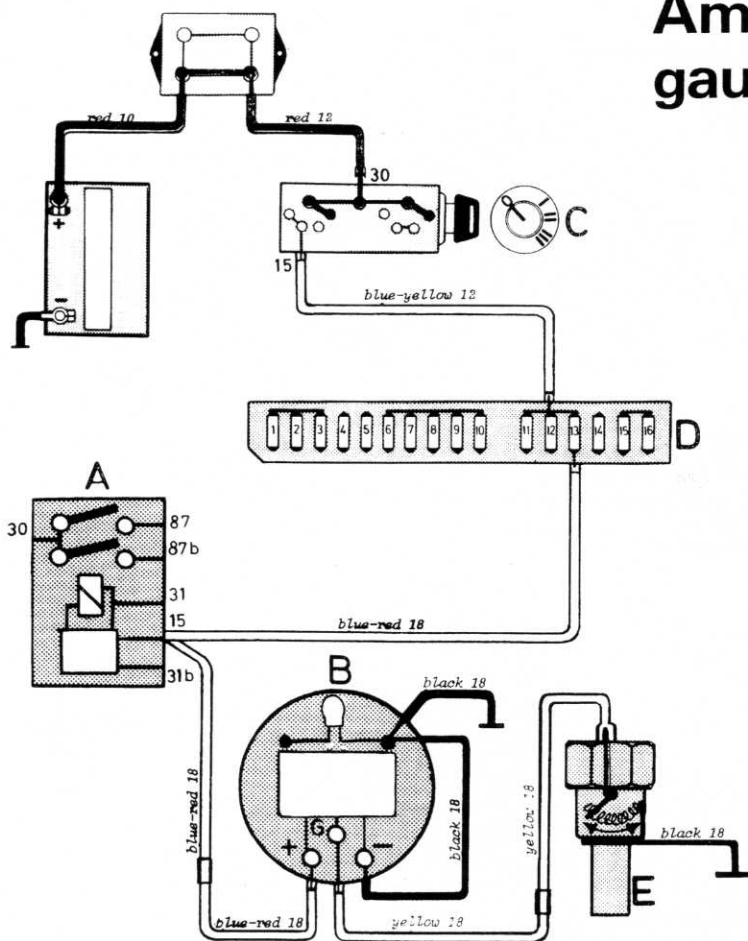
Fuse No. 13:
 Instrument cluster
 Turn signals
 Seat belt warning
 Relay, fuel injection
 Solenoid valve (carburetor)
 CIS system
 Oil pressure gauge
 Voltmeter
 Ambient temperature gauge

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



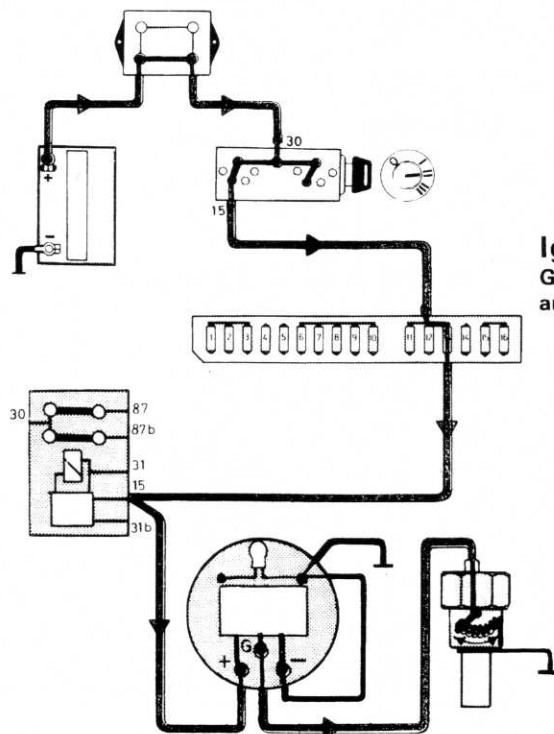


Ambient temperature gauge

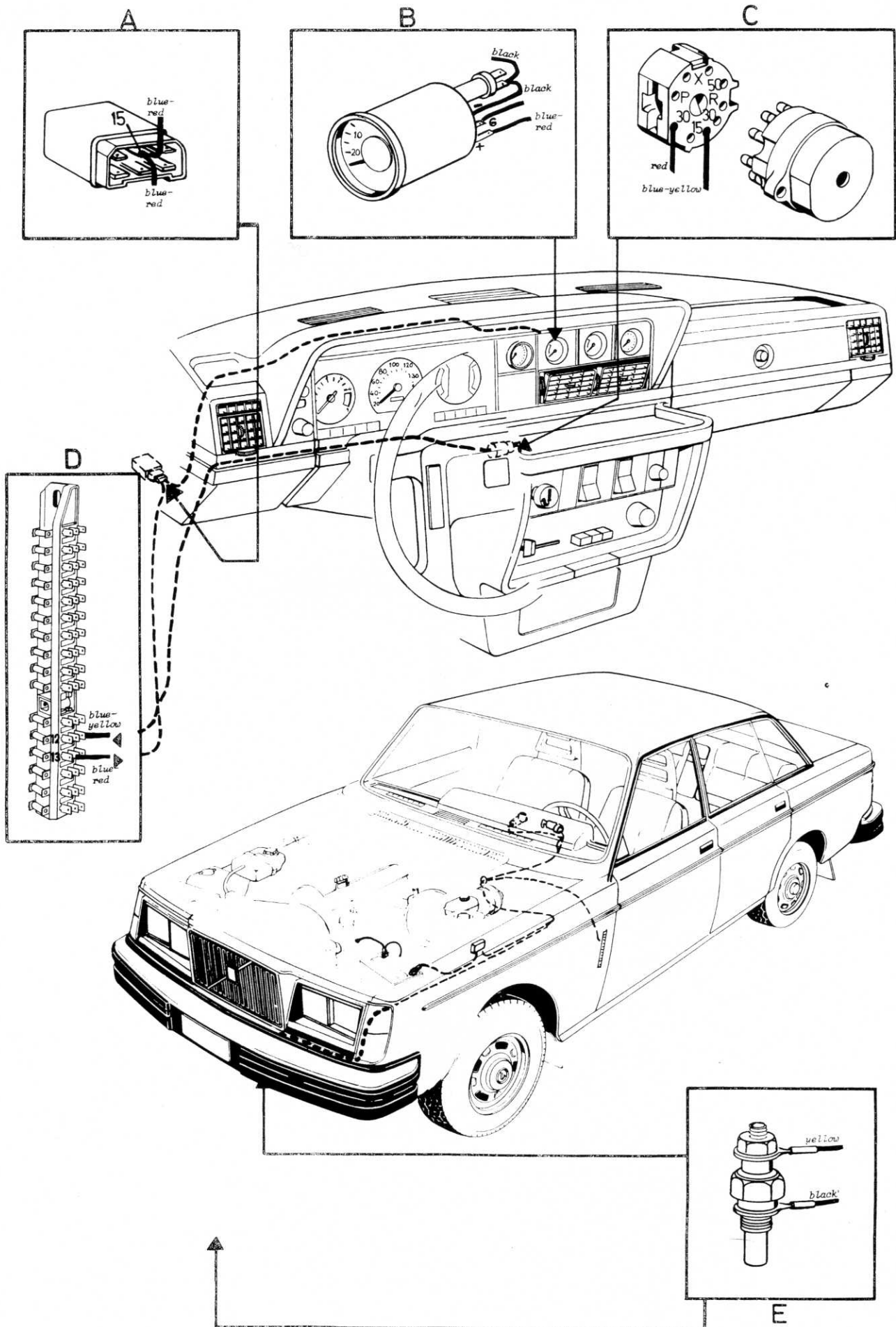


Fuse No. 13:
 Instrument cluster
 Turn signals
 Seat belt warning
 Relay, fuel injection
 Solenoid valve (carburetor)
 CIS system
 Oil pressure gauge
 Voltmeter
 Ambient temperature gauge

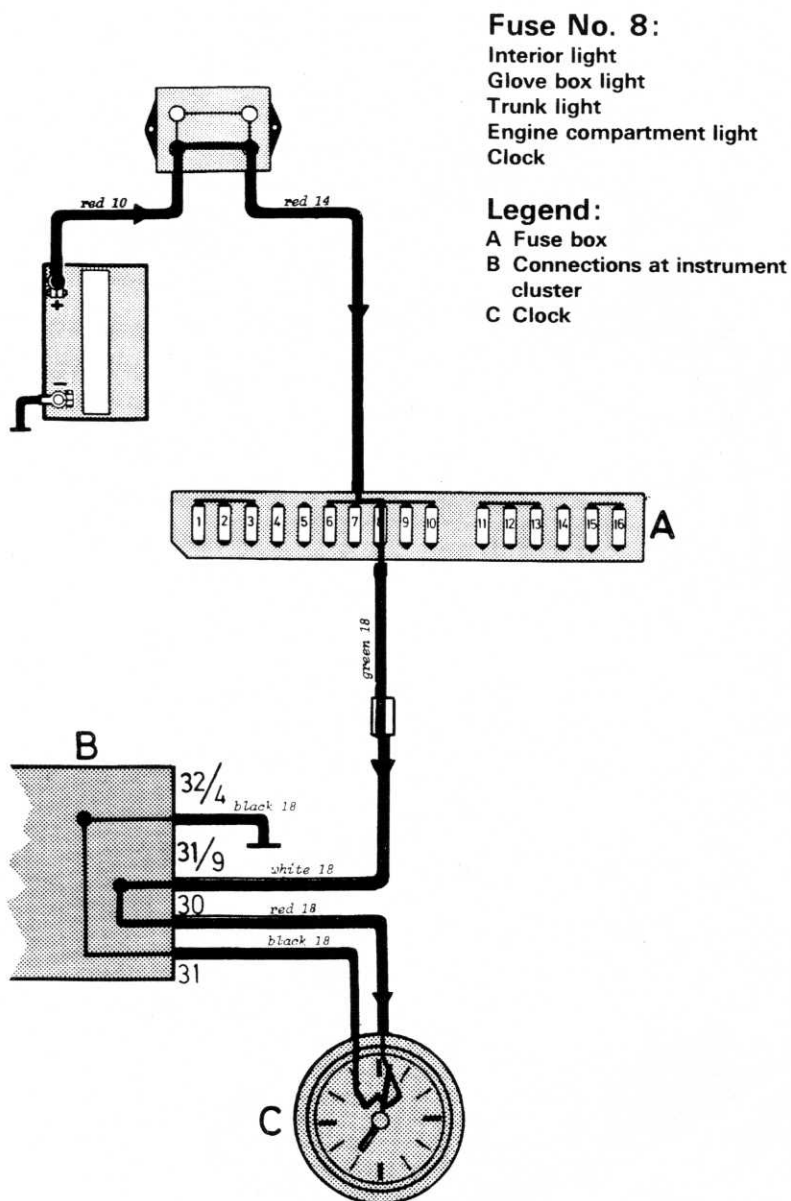
Legend:
 A Fuel pump relay
 B Ambient temperature gauge
 C Ignition switch
 D Fuse box
 E Sender, ambient temperature

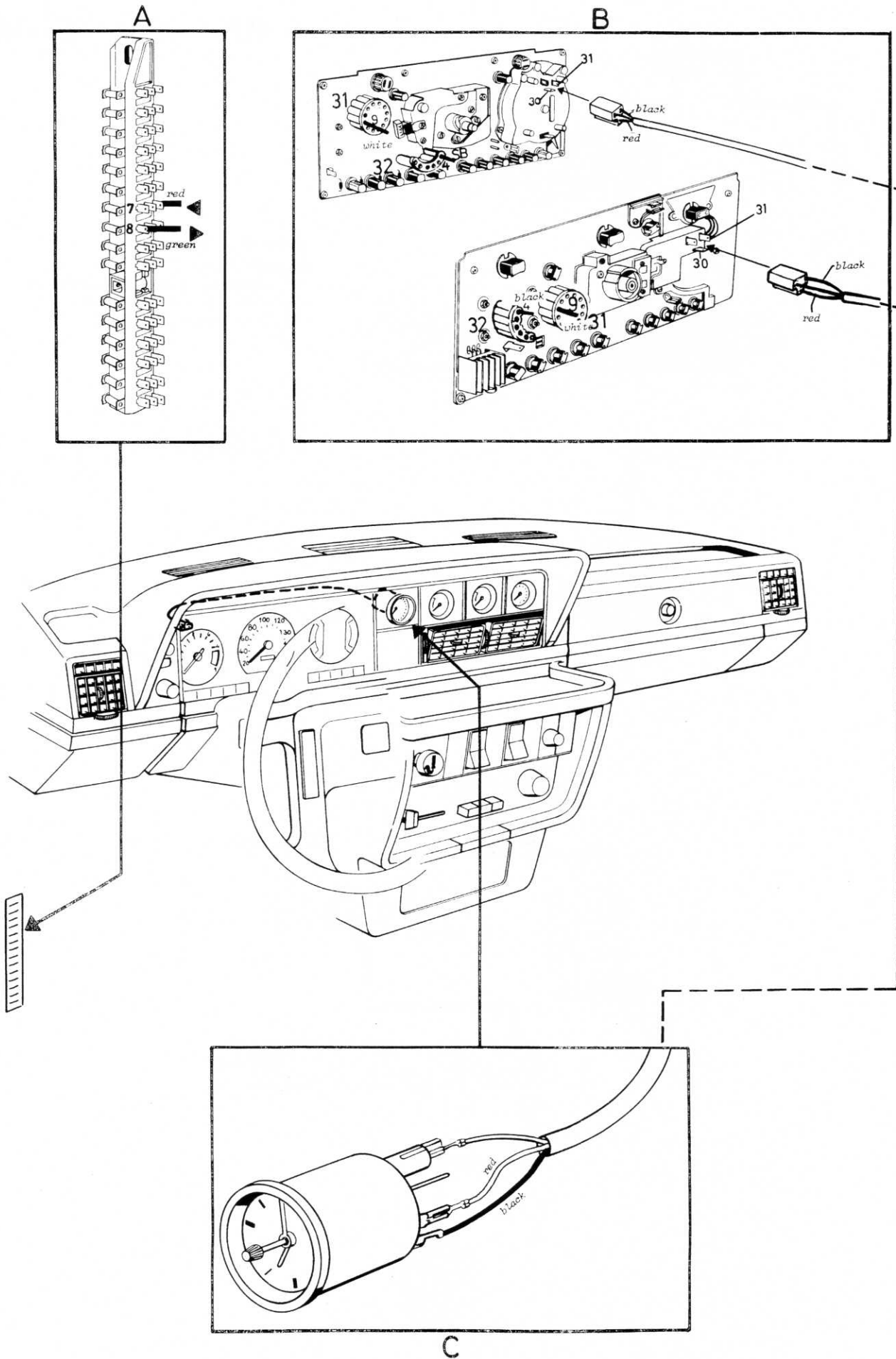


Ignition ON:
 Gauge displays
 ambient temperature.

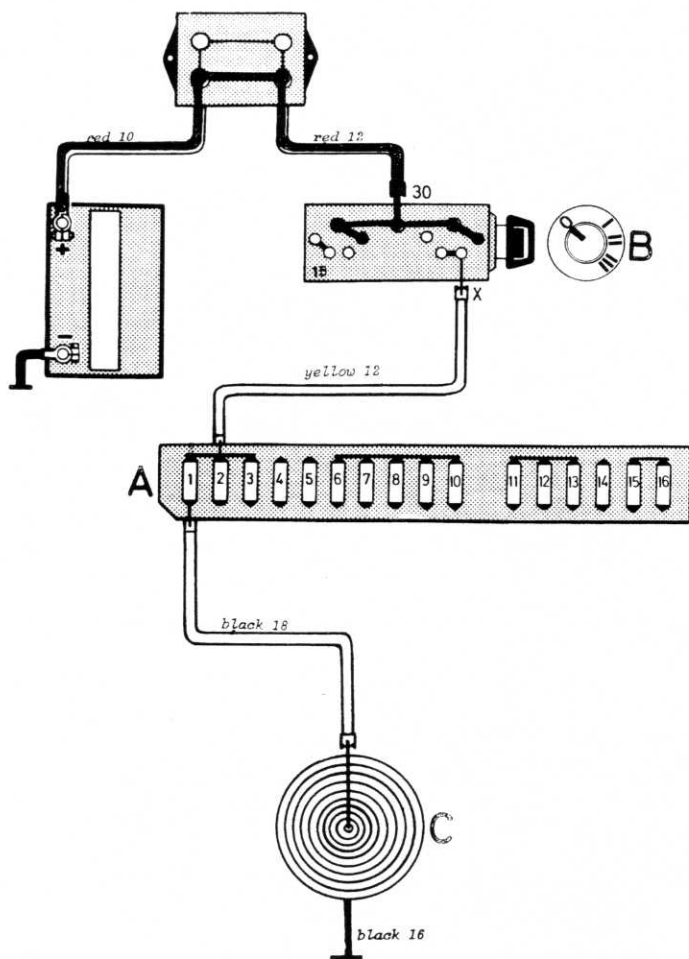


Clock





Cigarette lighter

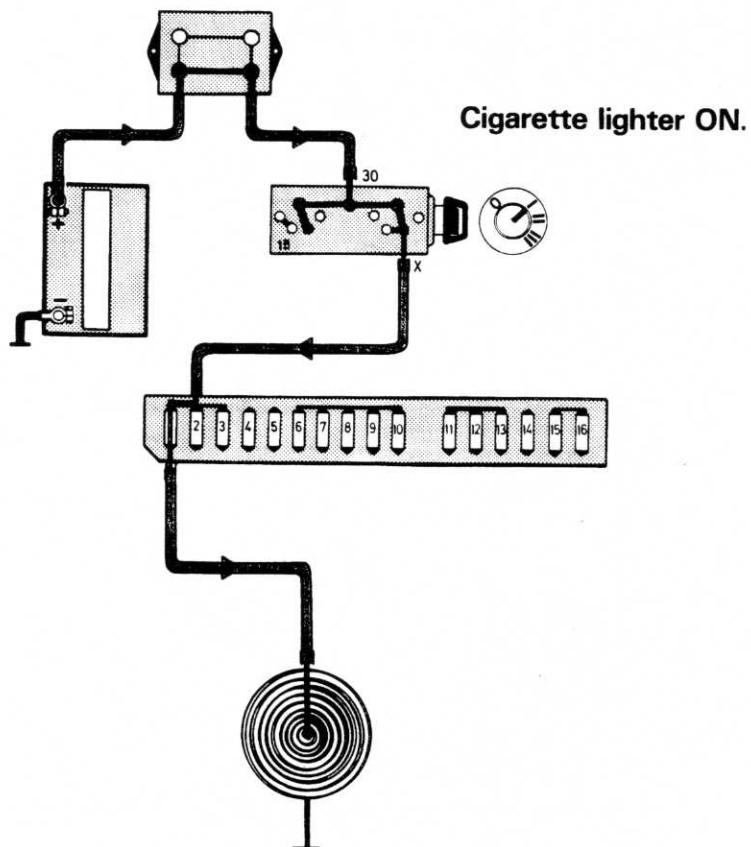


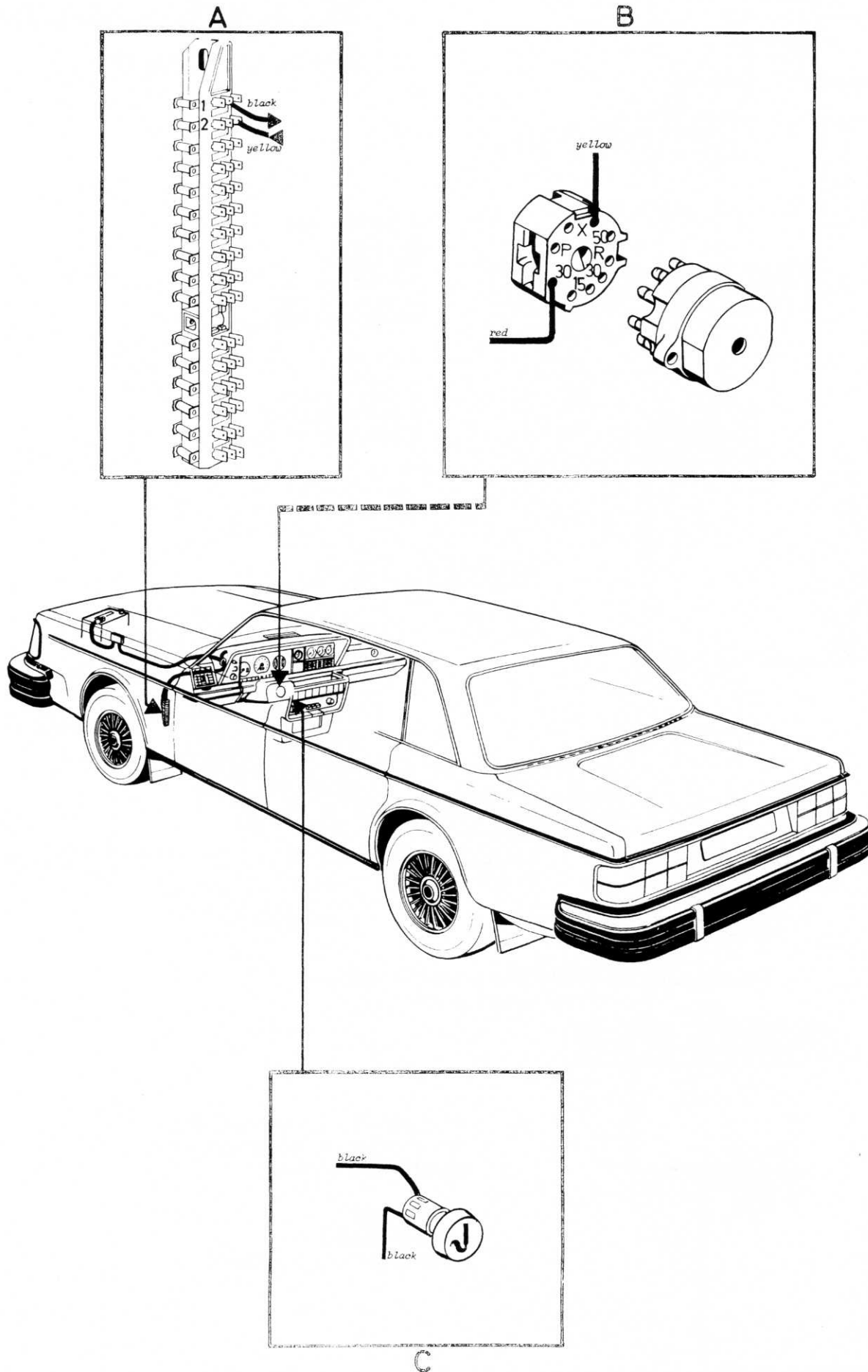
Fuse No. 1:

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

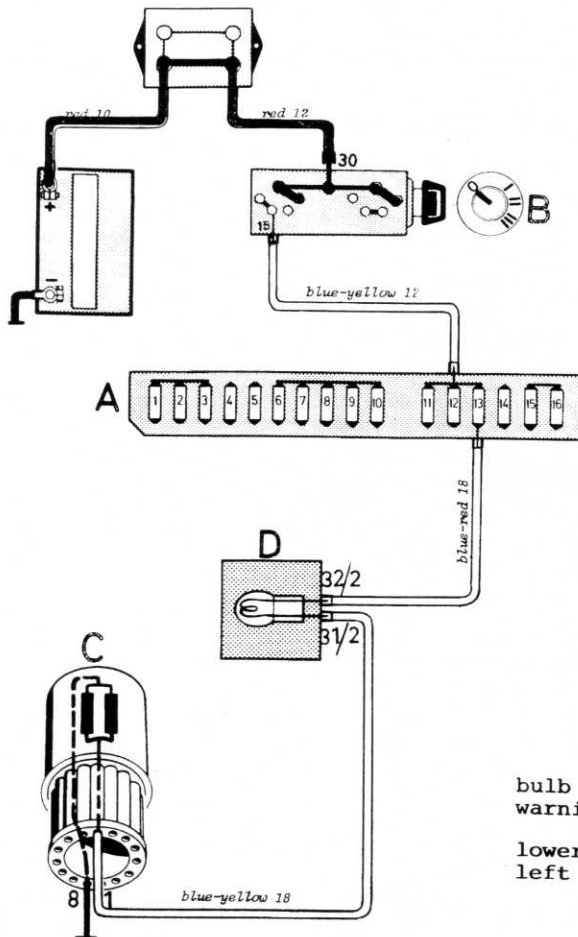
Legend:

A Fuse box
B Ignition switch
C Cigarette lighter





Bulb failure warning light system

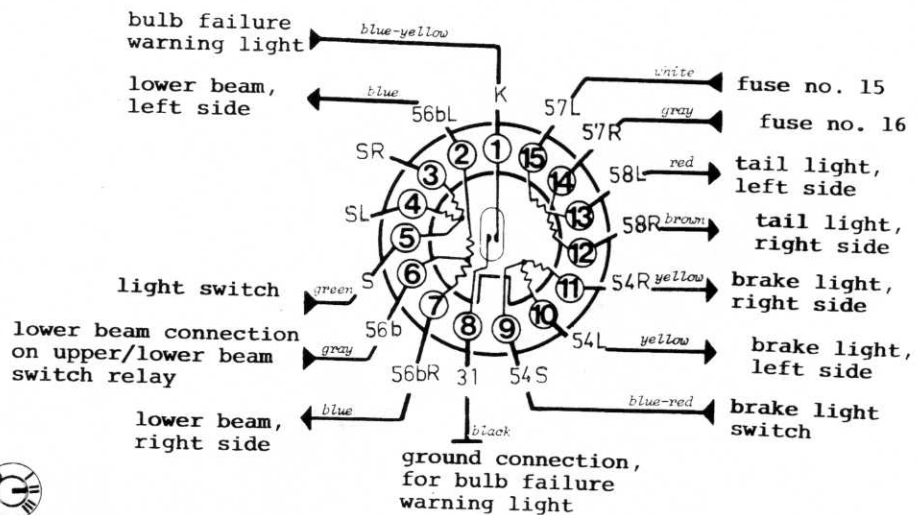


Fuse No. 13:

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

Legend:

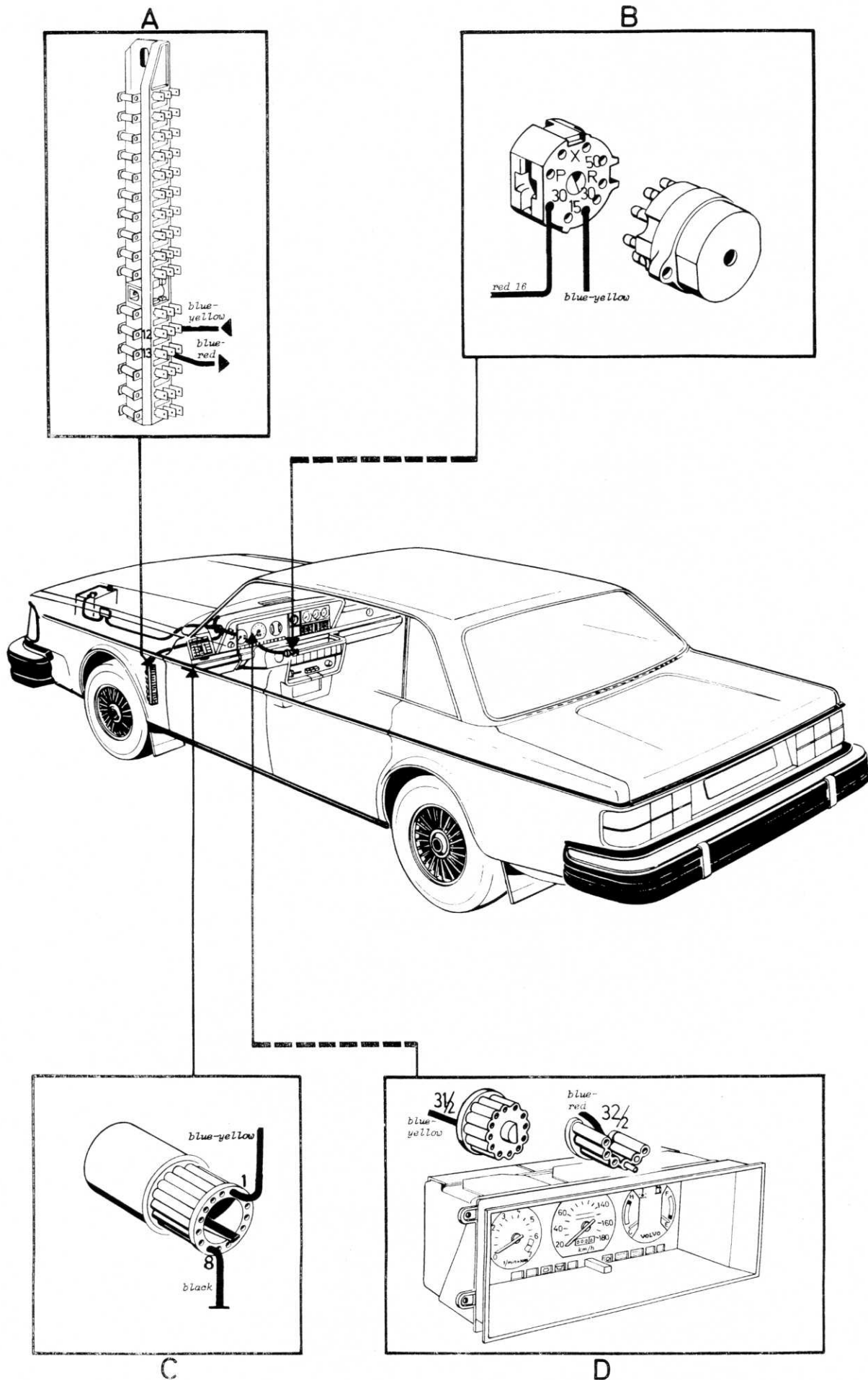
A Fuse box
B Ignition switch
C Bulb failure sensor
D Bulb failure warning light



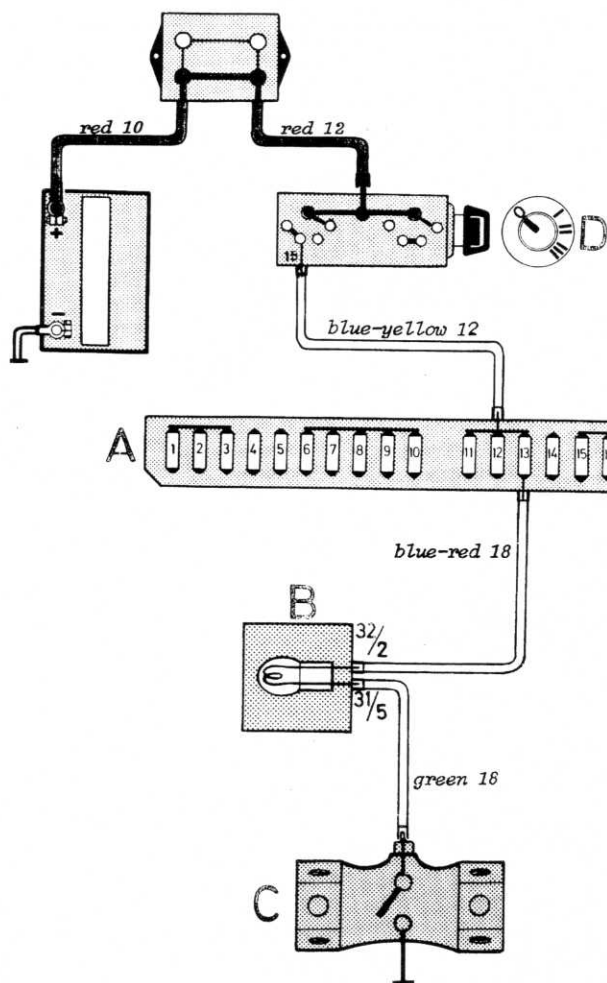
Bulb failure sensor activated
(bulb out of order)

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

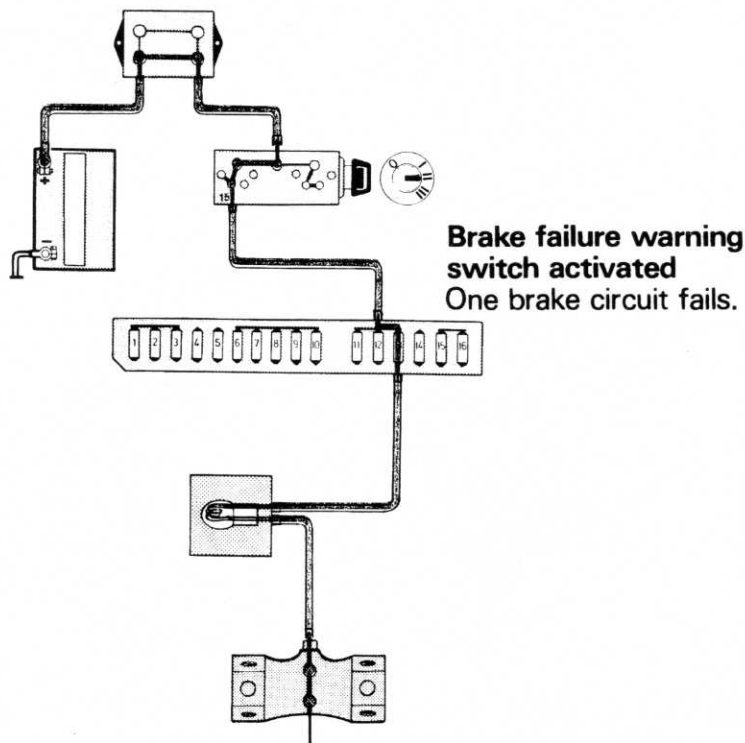


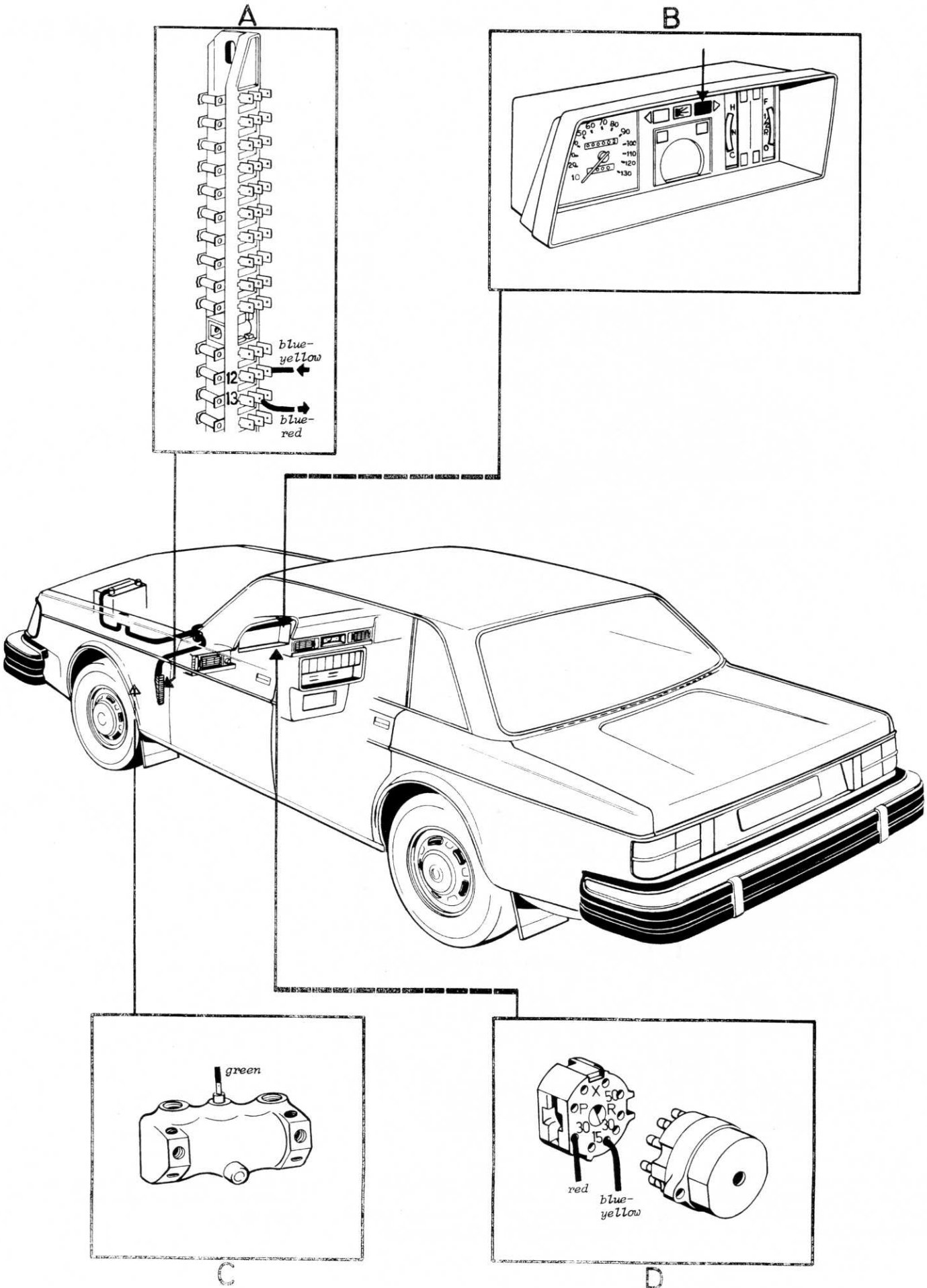
Fuse No. 13:

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

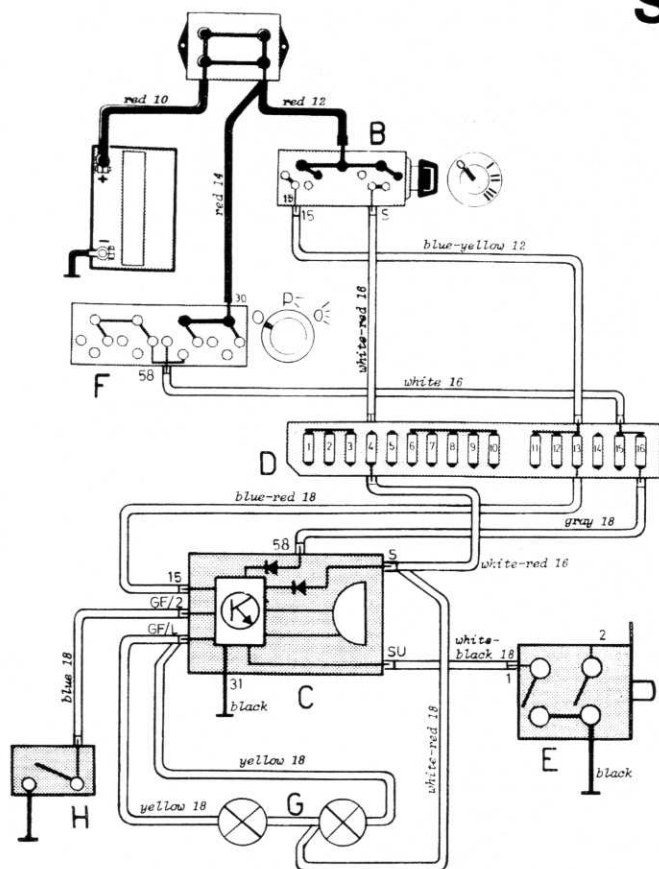
Legend:

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





Seat belt warning system



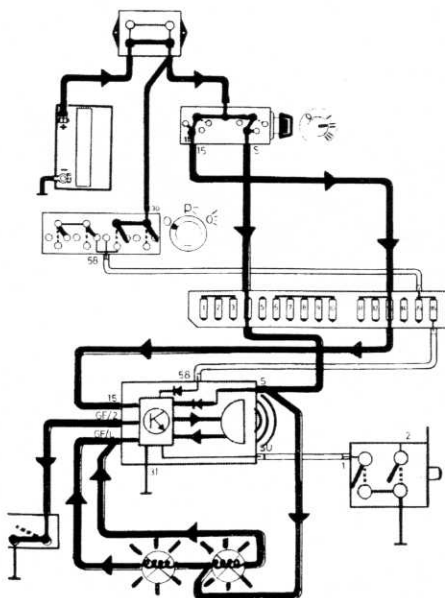
Fuse No. 4:
Seat belt warning
Ignition key buzzer

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

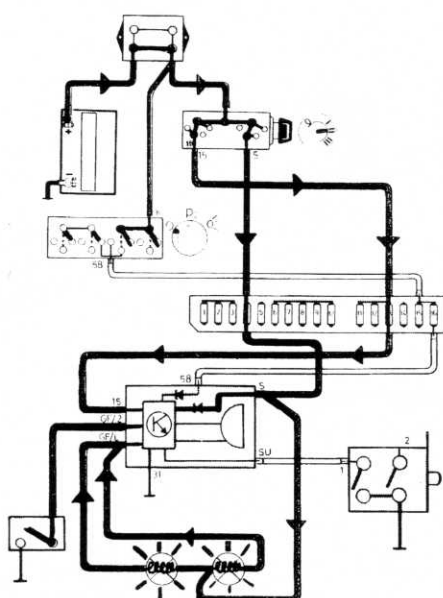
Fuse No. 16:
Parking light, right side
Instrument lights
Lights on controls
Buzzer, headlight

Legend:

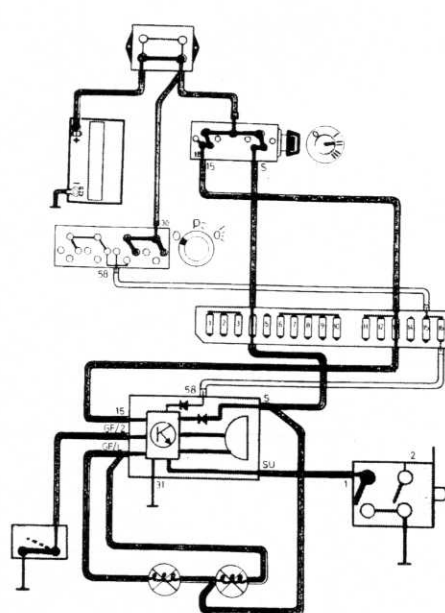
- B Ignition switch
- C Buzzer relay
- D Fuse box
- E Door switch, left side front door
- F Light switch
- G Reminder lights
- H Switch for seat belt, driver's seat



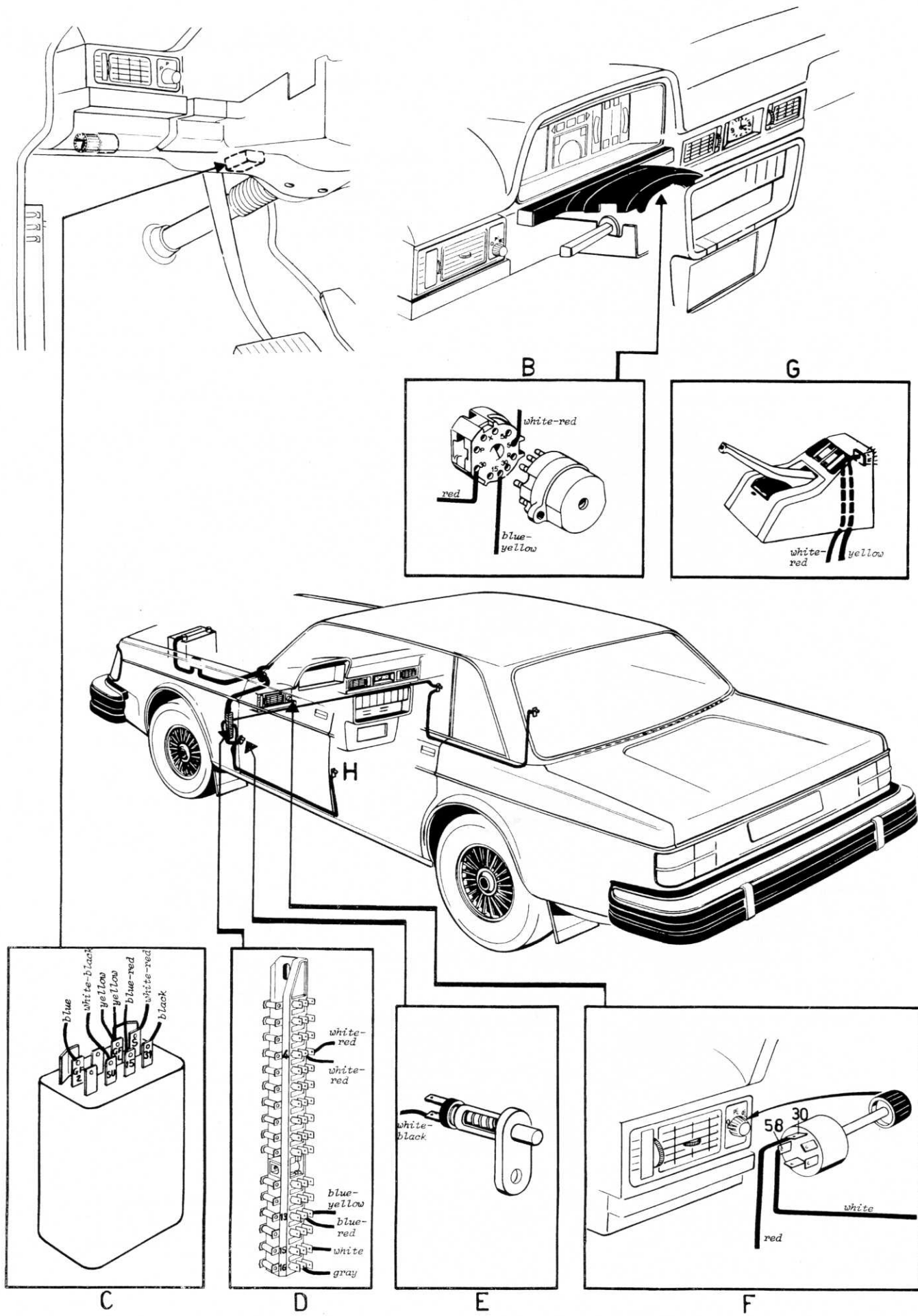
Ignition ON
Seat belt not buckled.
Reminder lights illuminate and buzzer sounds for 4-8 seconds after switching ignition switch ON.



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

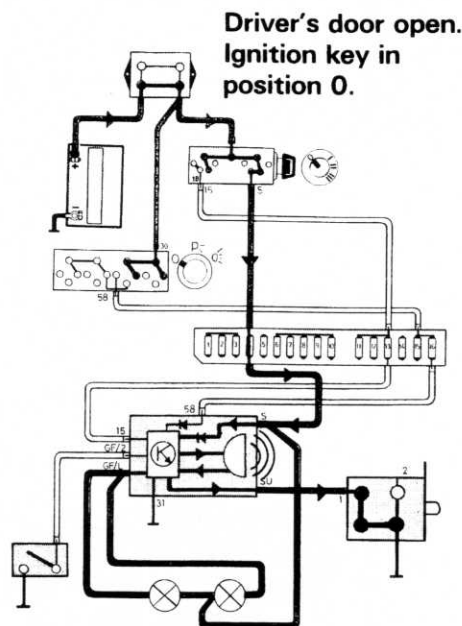
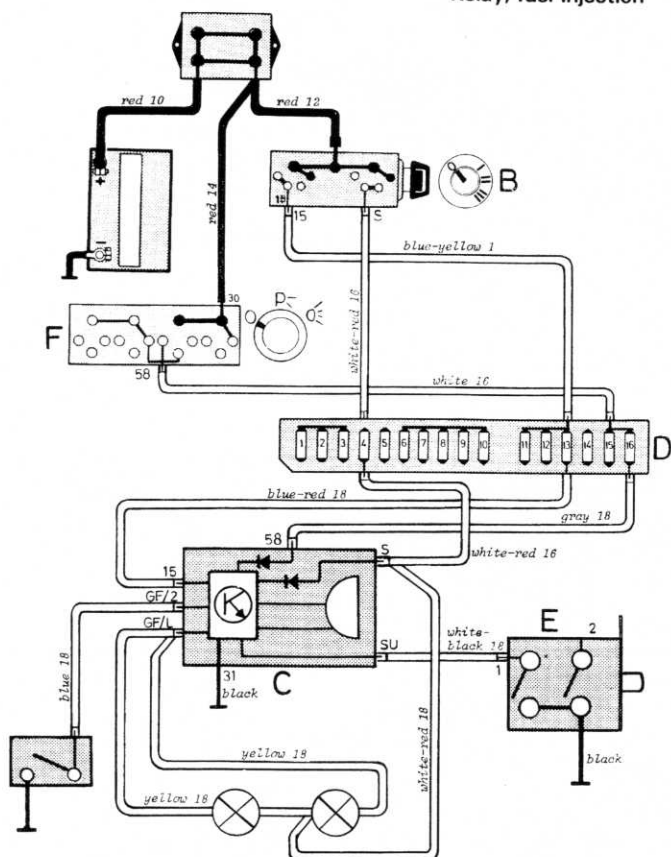
Fuse No. 4:
Seat belt warning
Ignition key buzzer

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:

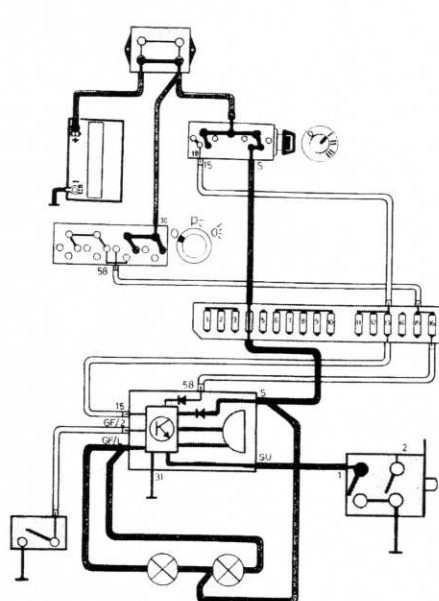
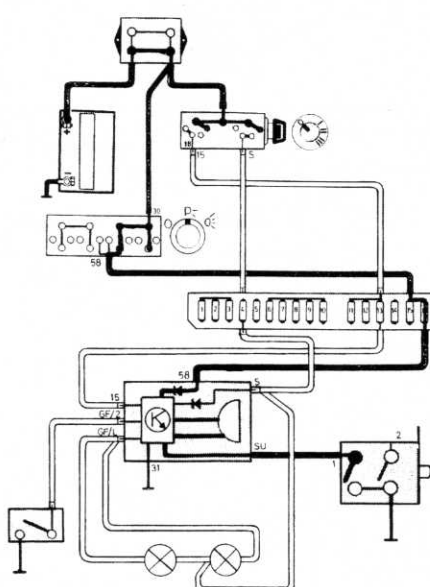
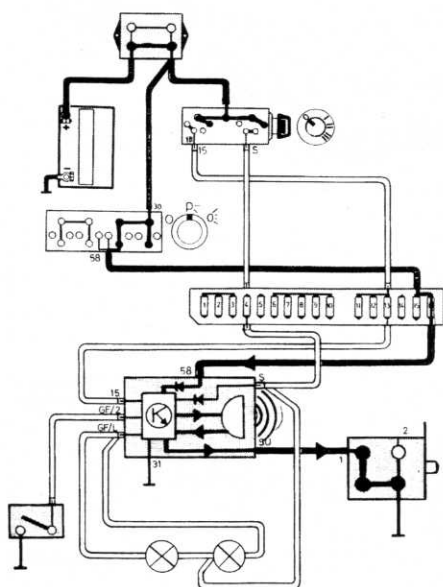
- B Ignition switch
- C Buzzer relay
- D Fuse box
- E Door switch, left side front door
- F Light switch

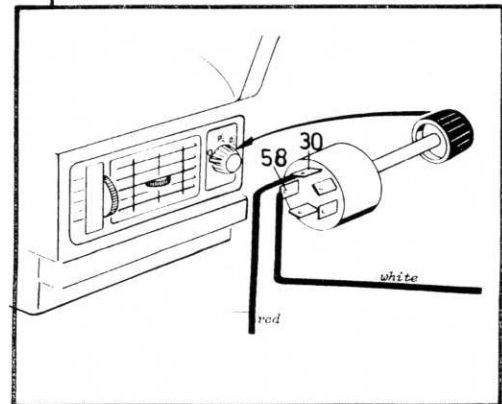
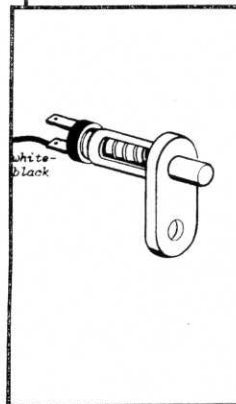
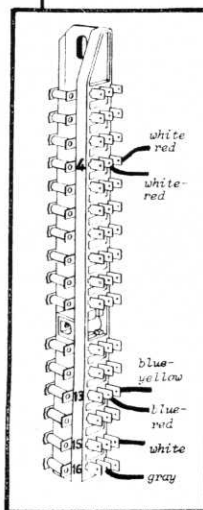
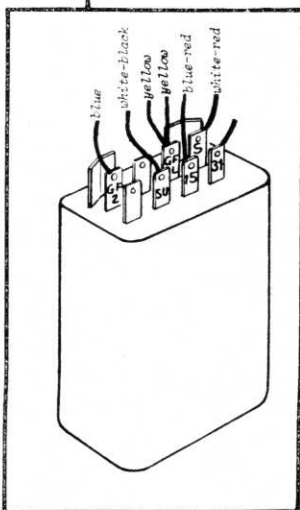
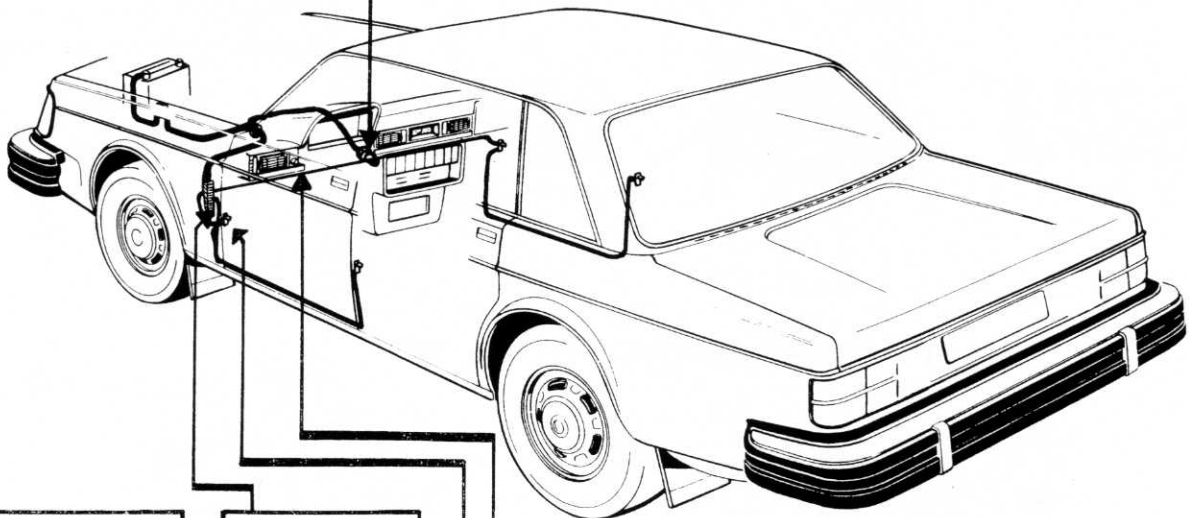
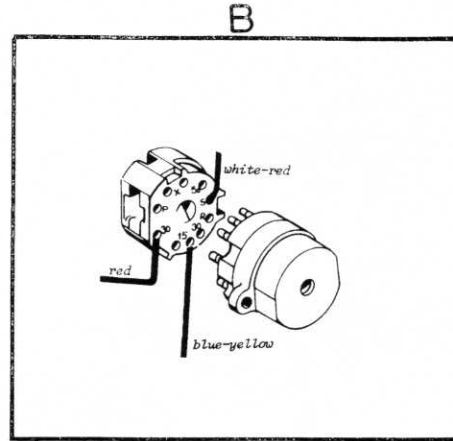
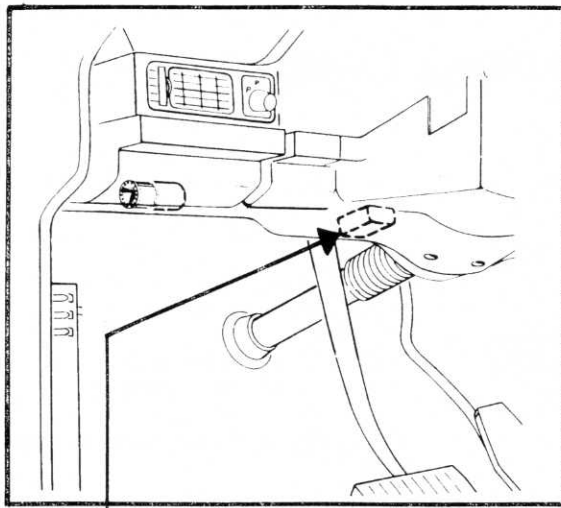


Light switch ON.
Driver's door open.
Ignition key OUT.

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

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





C

D

E

F

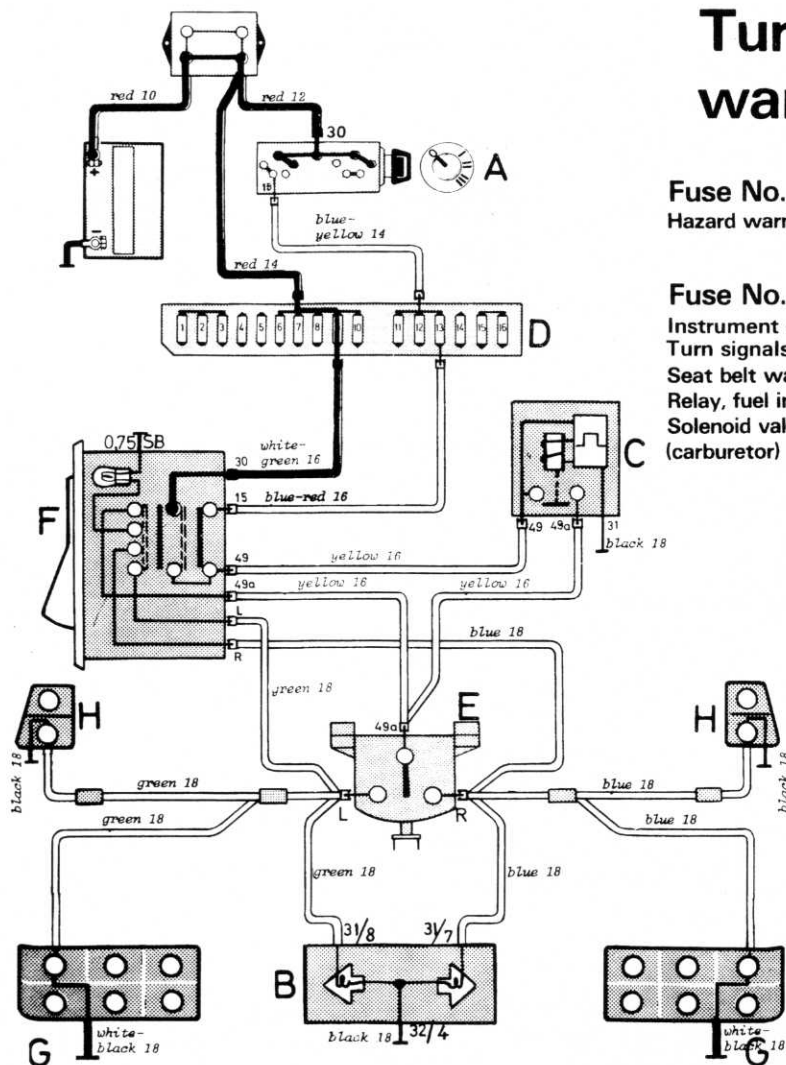
Turn signals and hazard warning flashers

Fuse No. 9:
Hazard warning flashers

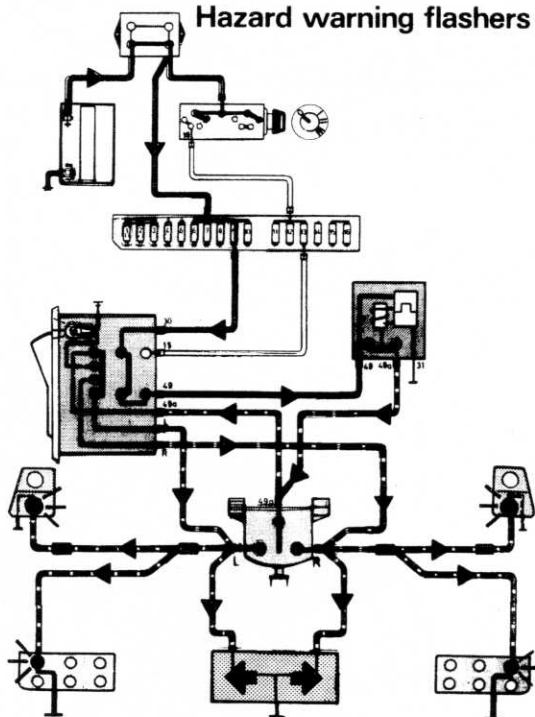
Fuse No. 13:
Instrument cluster
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve
(carburetor)

Legend:

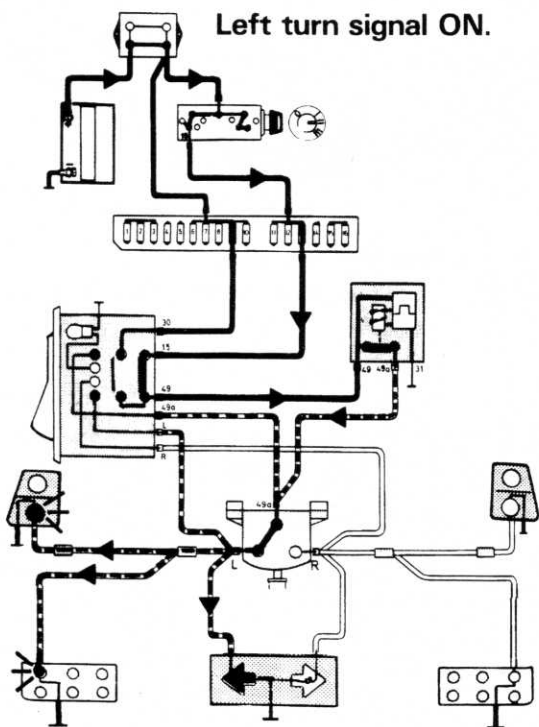
- A Ignition switch
- B Instrument connector
- C Flasher unit
- D Fuse box
- E Turn signal switch
- F Switch, hazard warning
flashers
- G Rear turn signal lights
- H Front turn signal lights



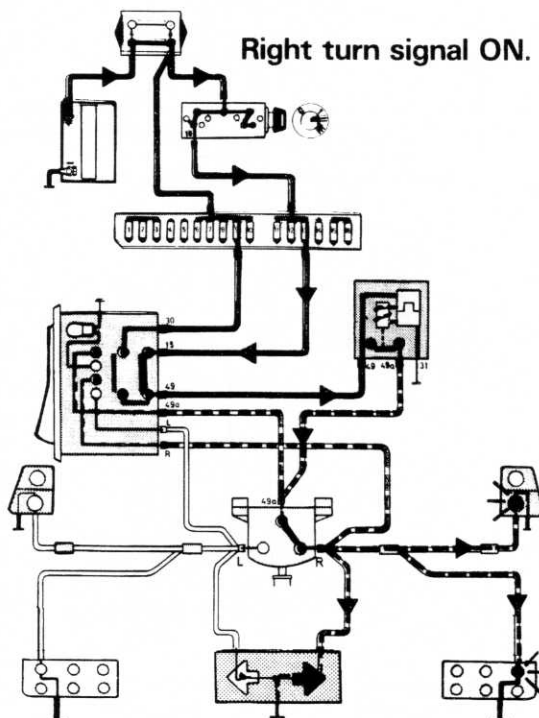
Hazard warning flashers ON.

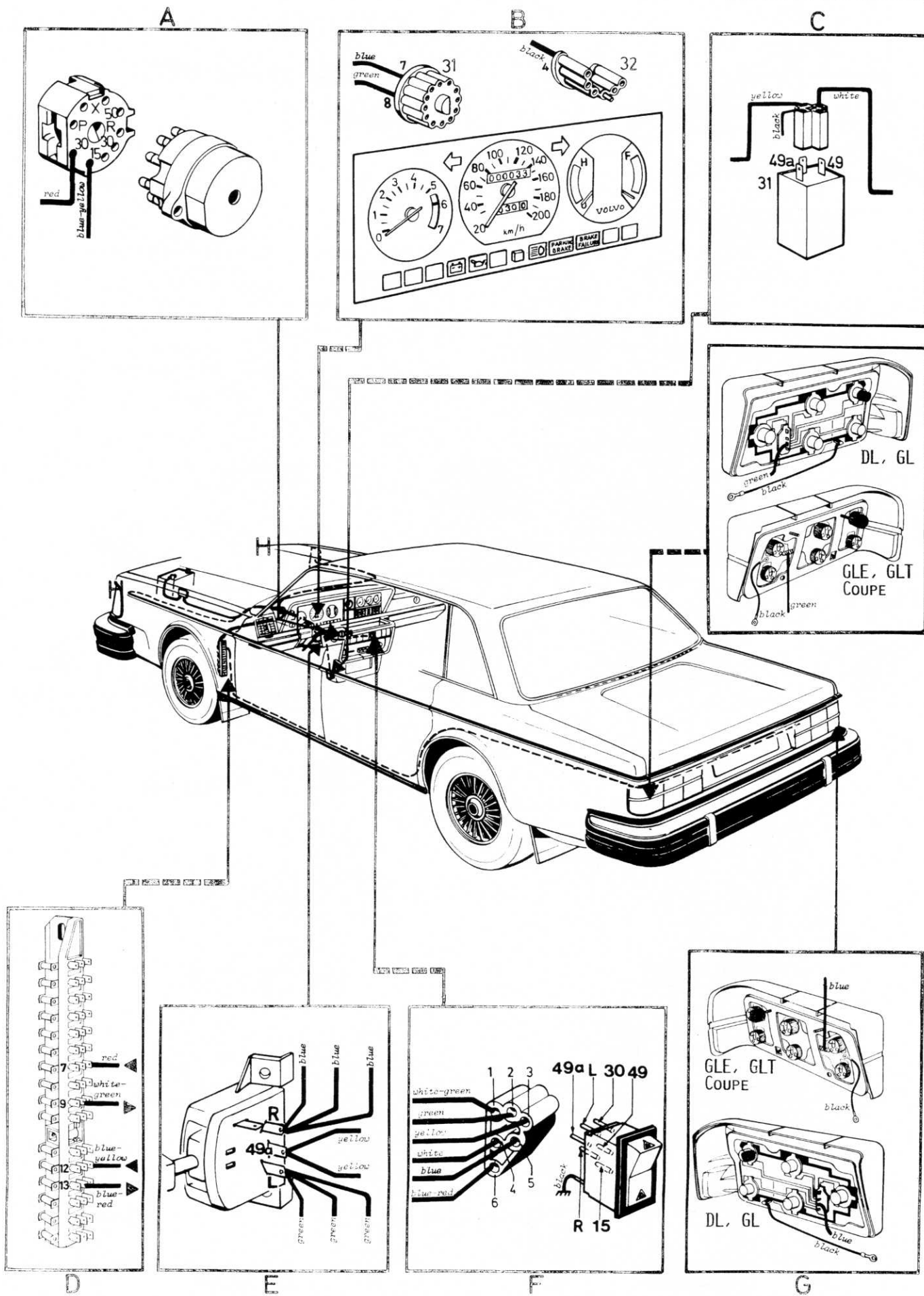


Left turn signal ON.

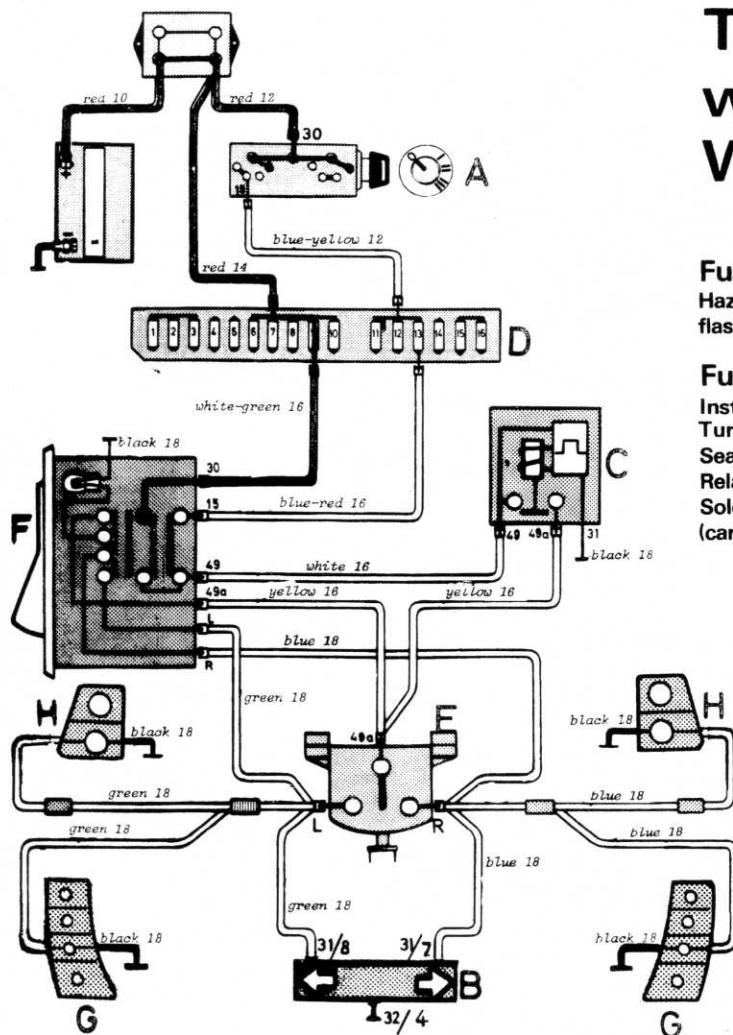


Right turn signal ON.





Turn signals and hazard warning flashers Wagon

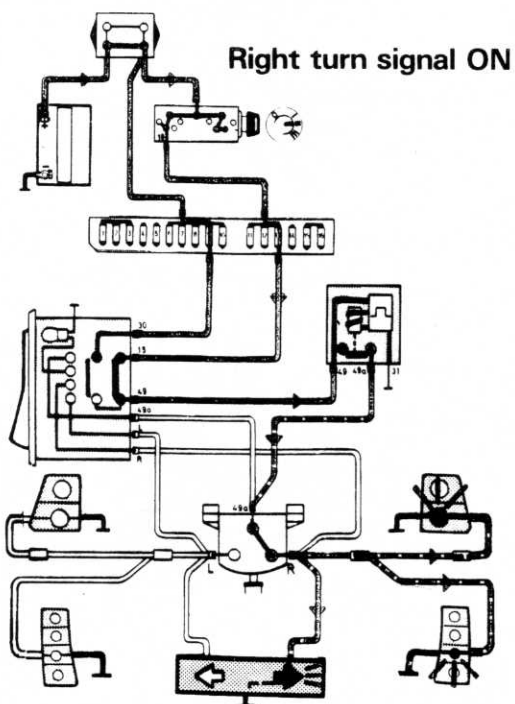
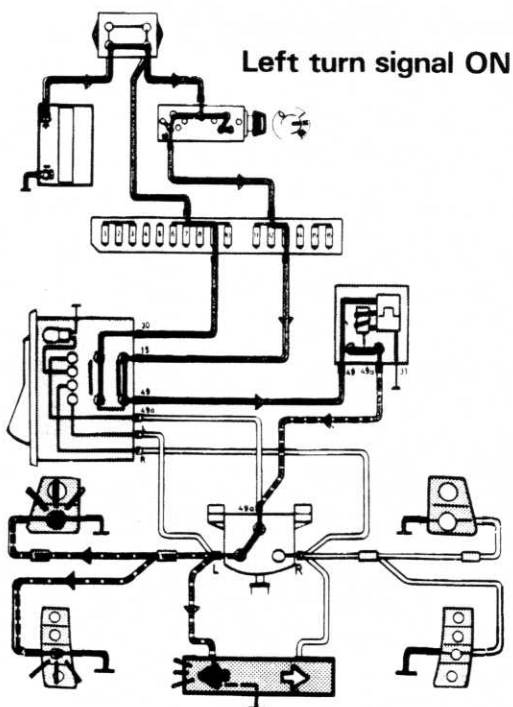
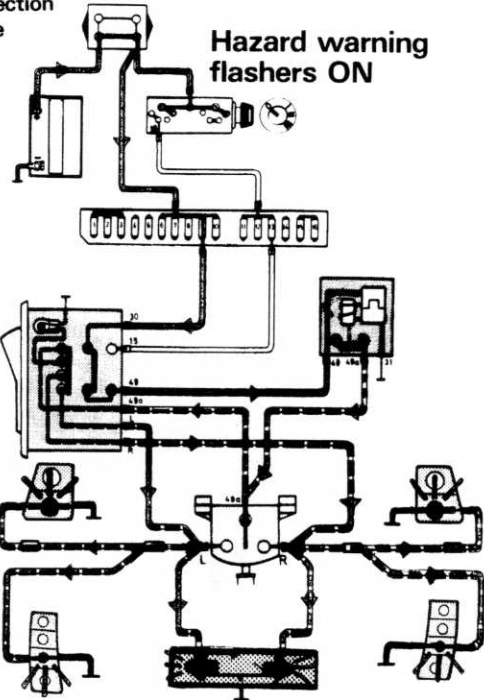


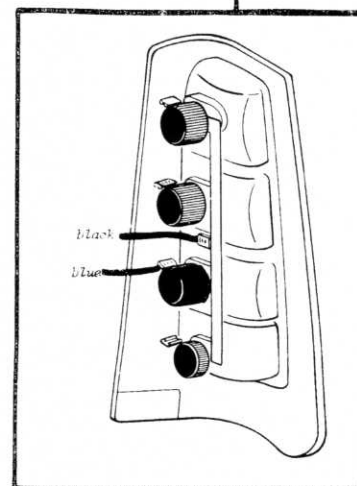
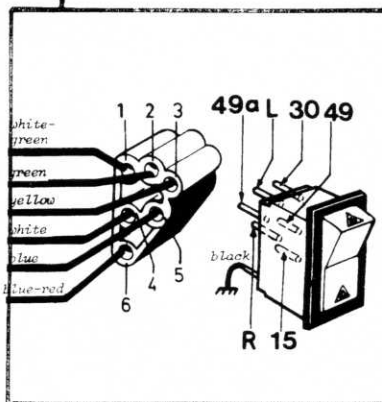
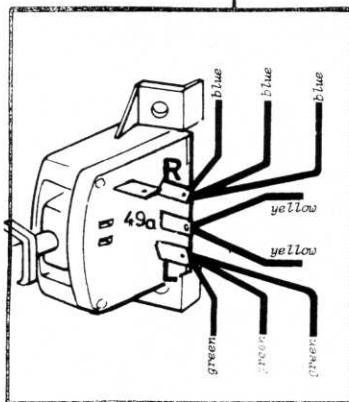
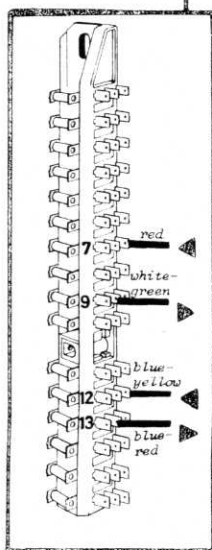
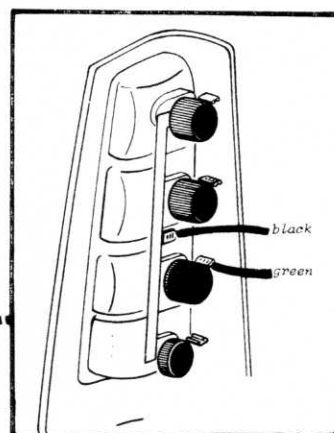
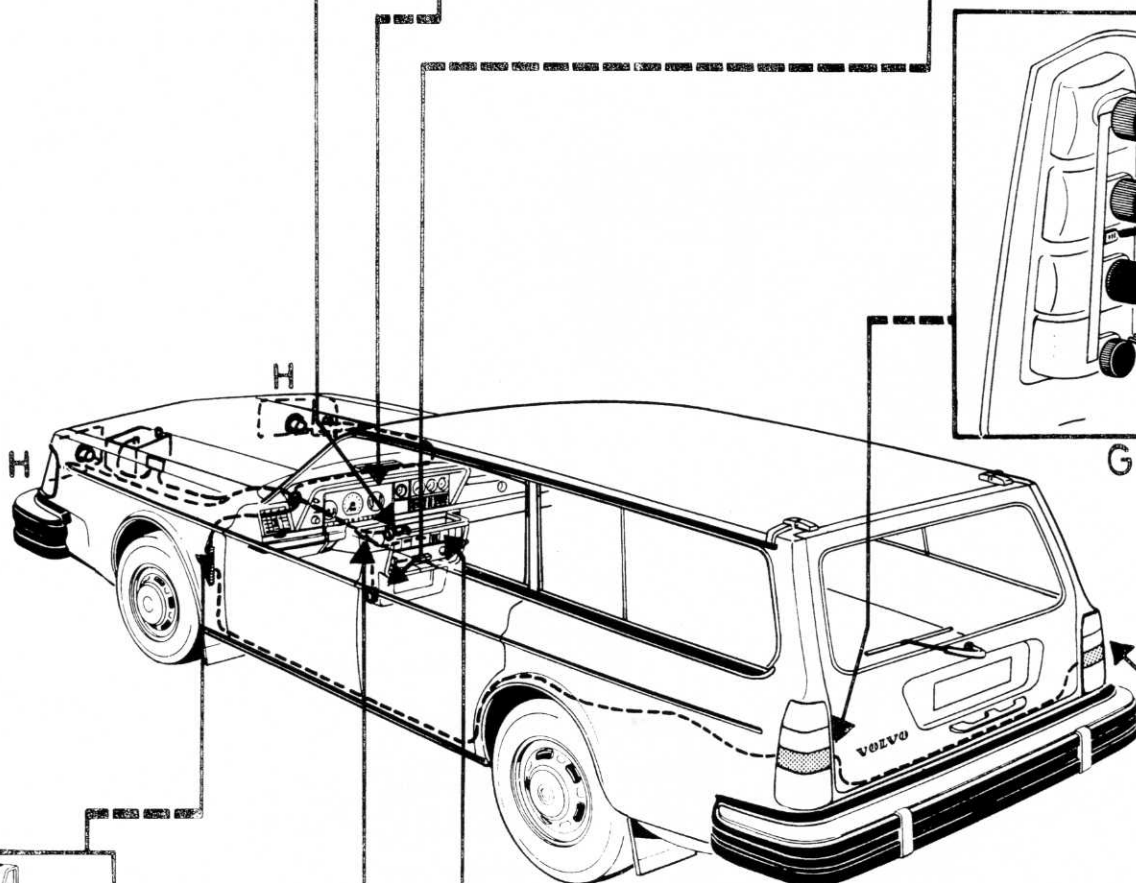
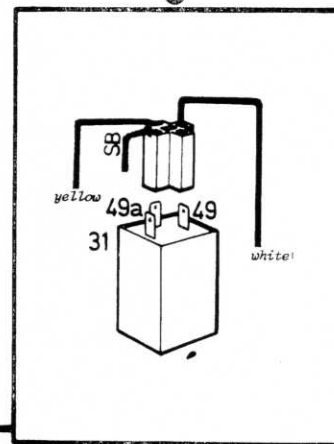
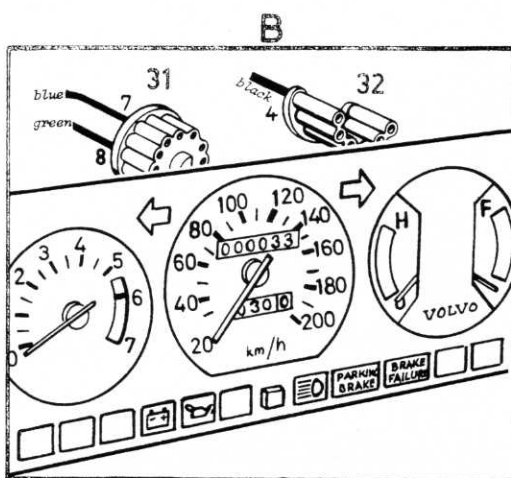
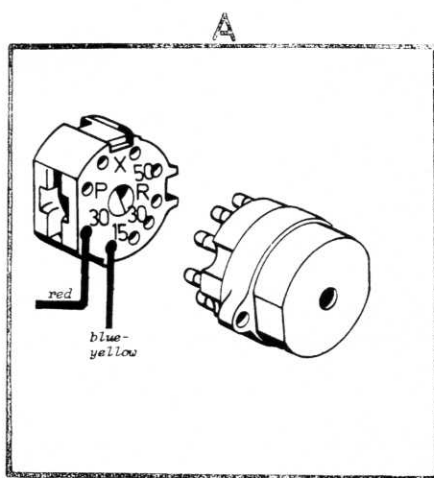
Fuse No. 9:
Hazard warning
flashers

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

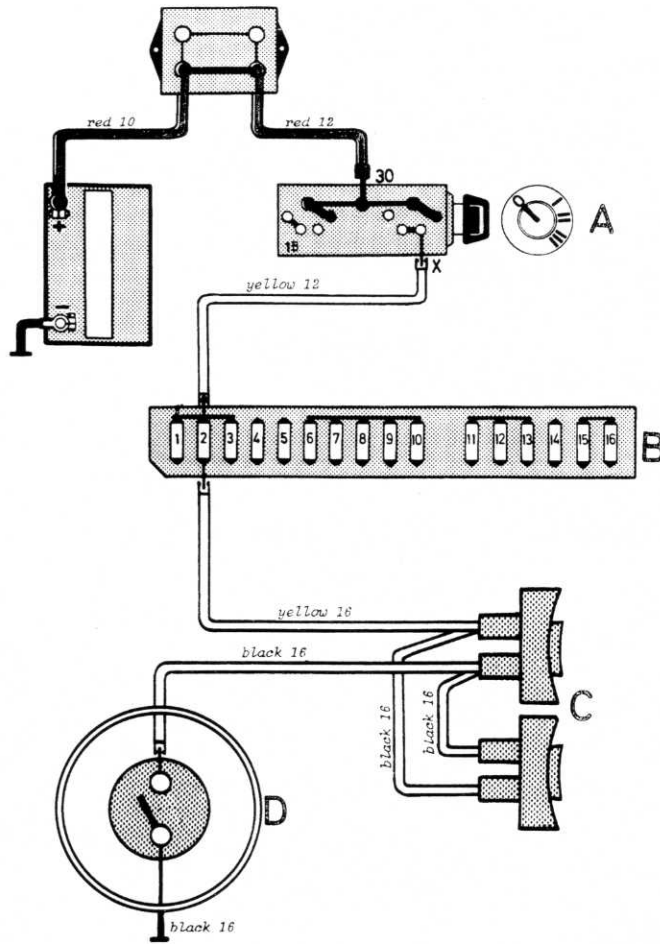
Legend:

- 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



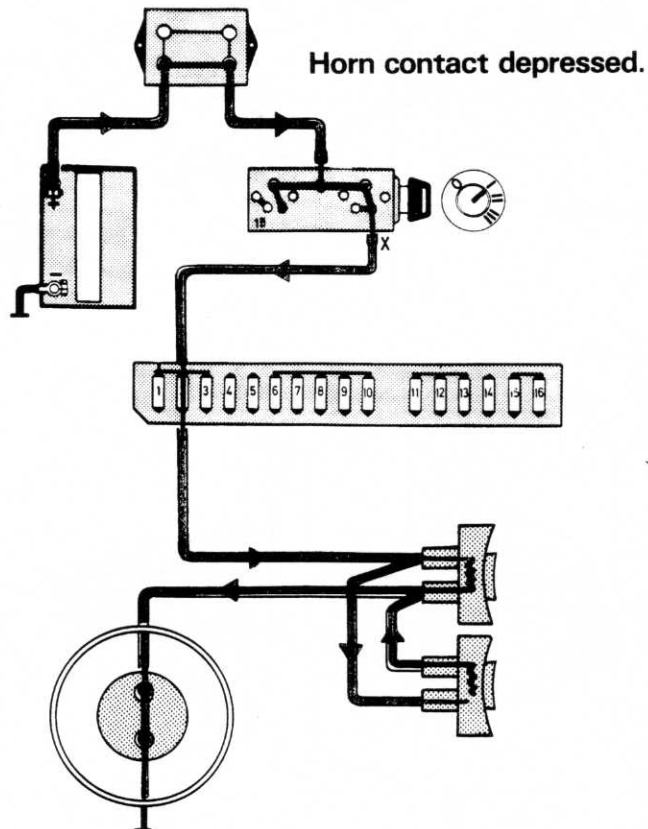


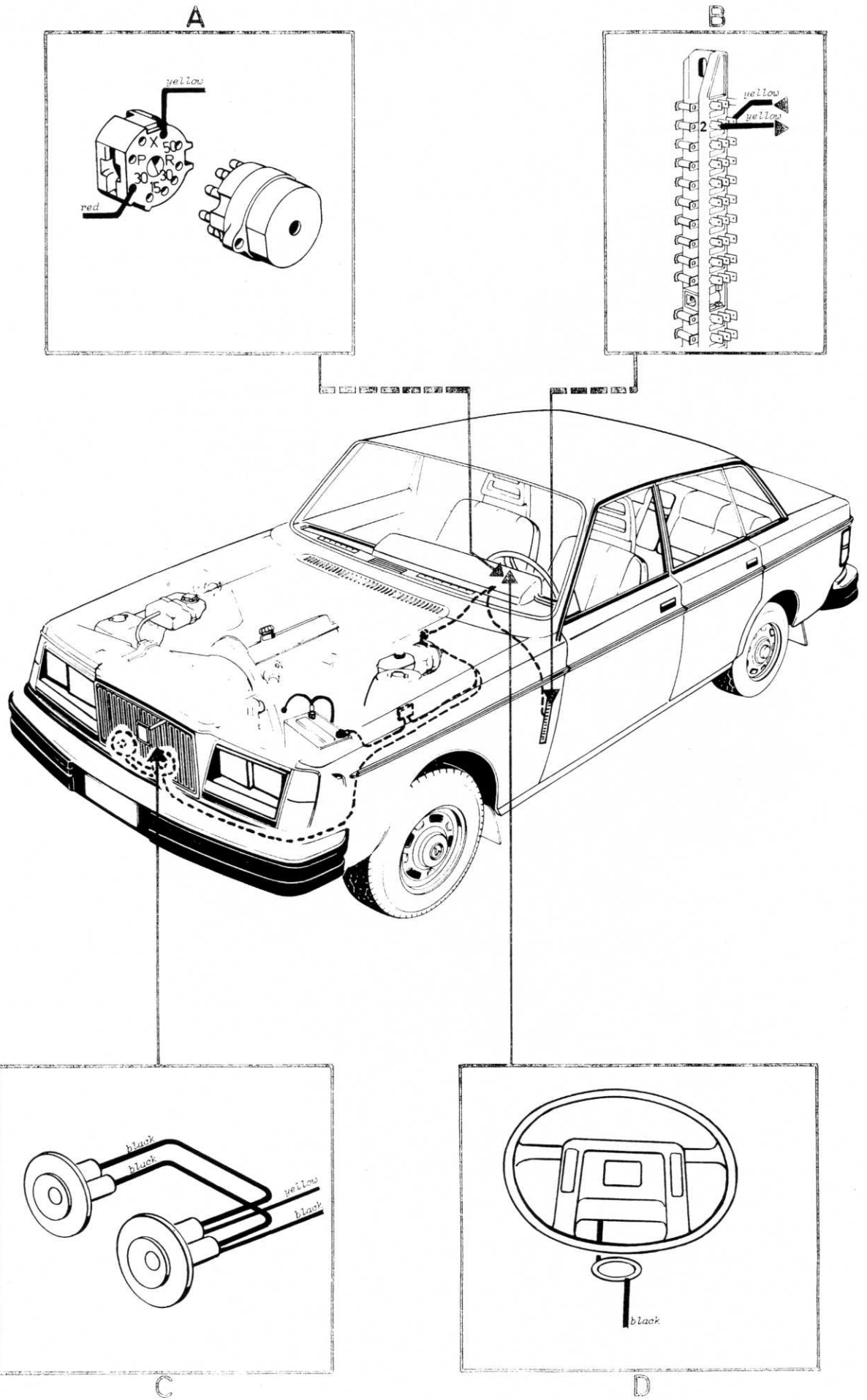
Horn



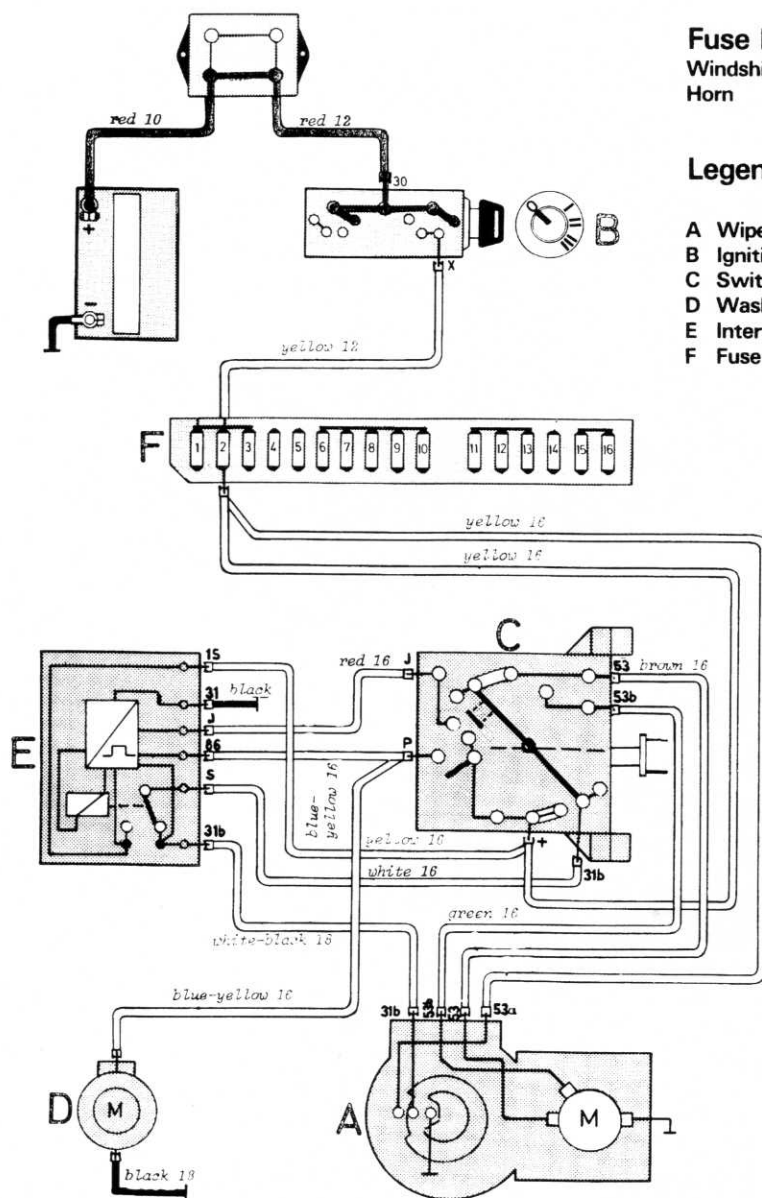
Fuse No. 2:
Windshield wiper/washer
Horn

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





Windshield wiper and washer

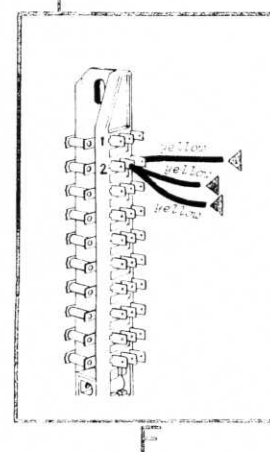
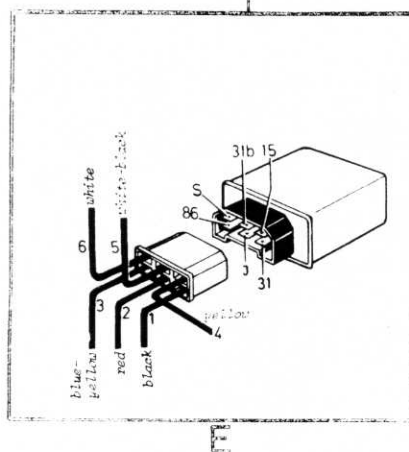
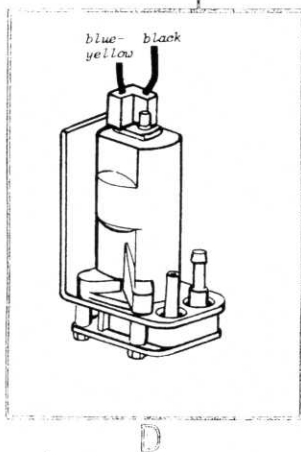
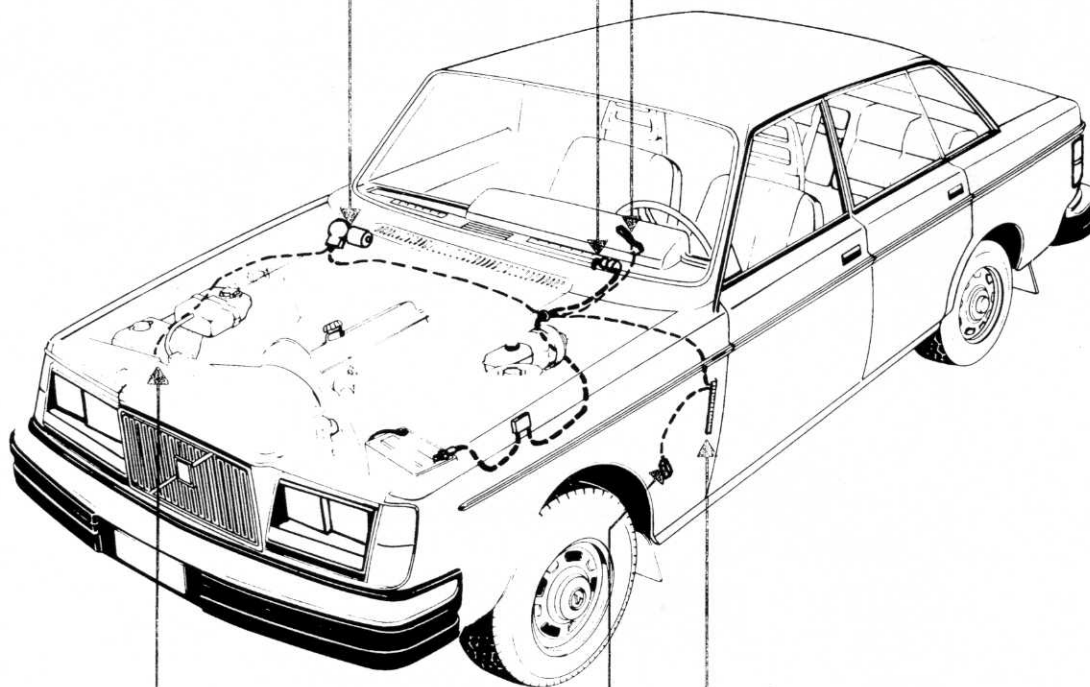
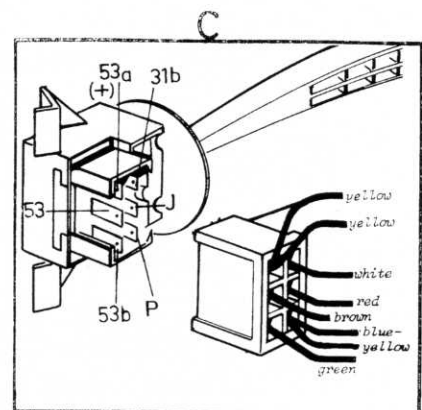
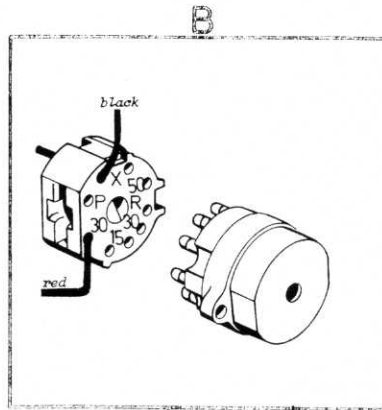
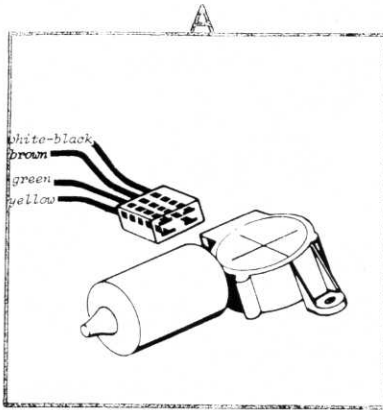


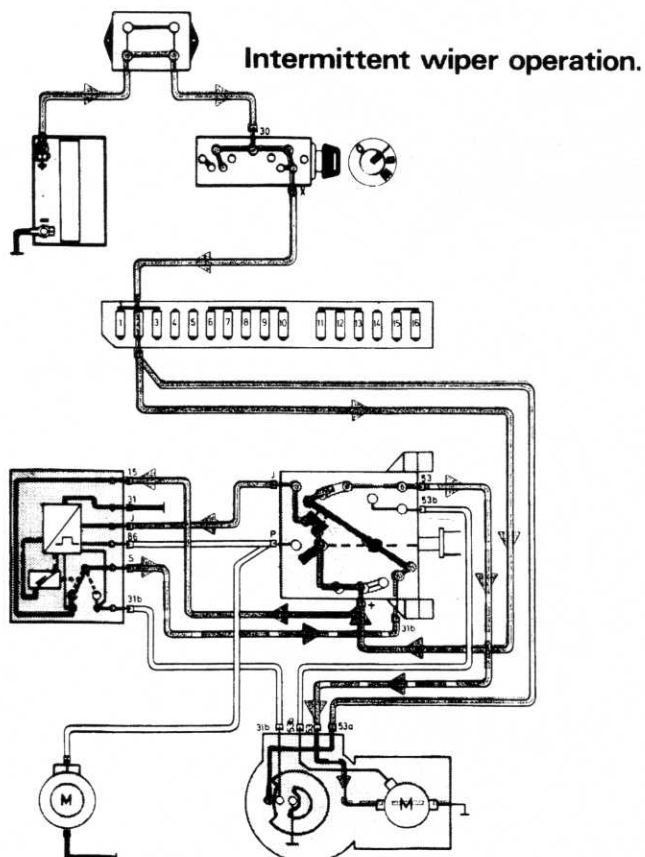
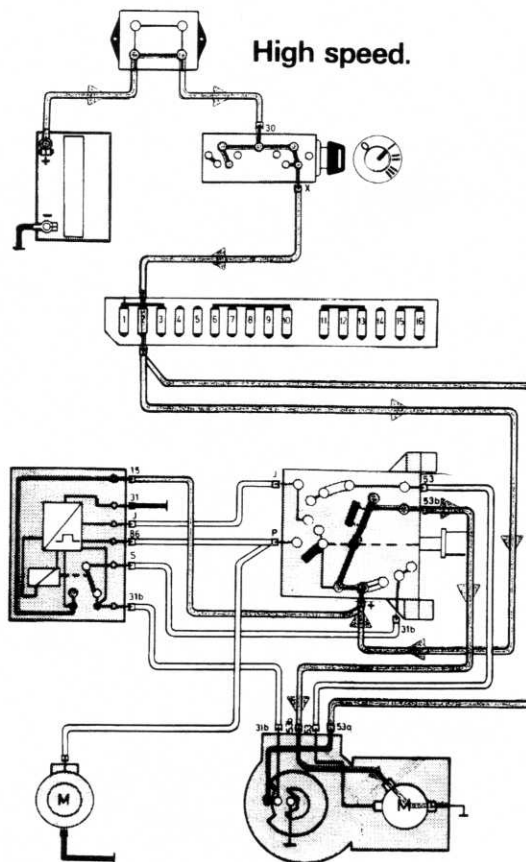
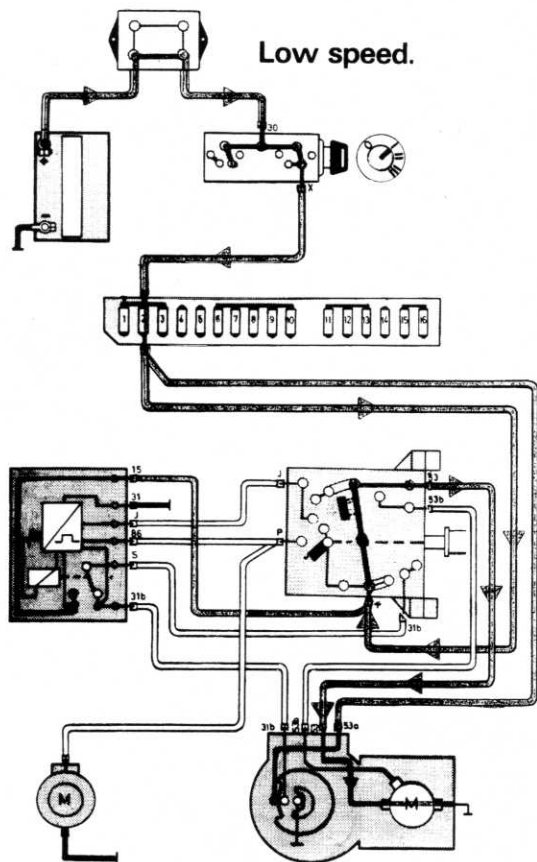
Fuse No. 2:

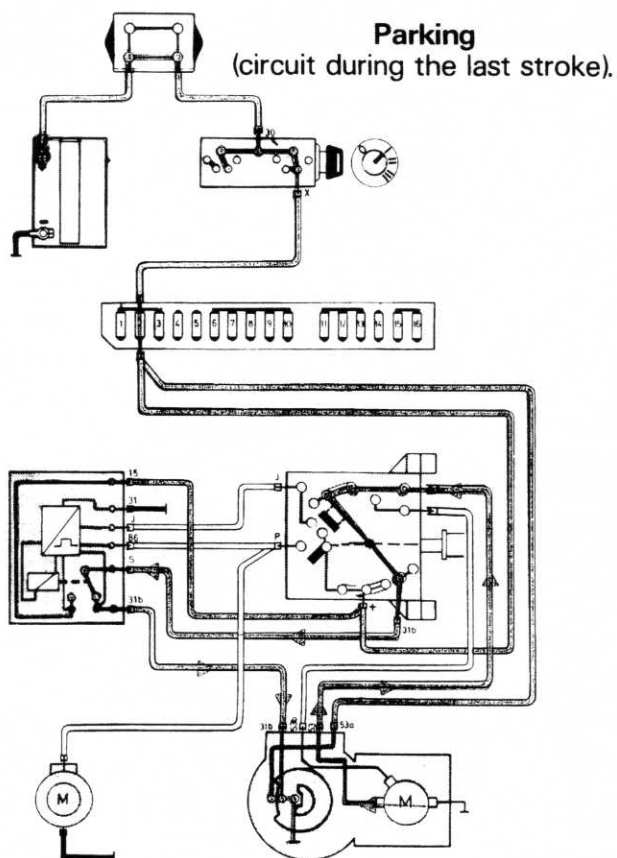
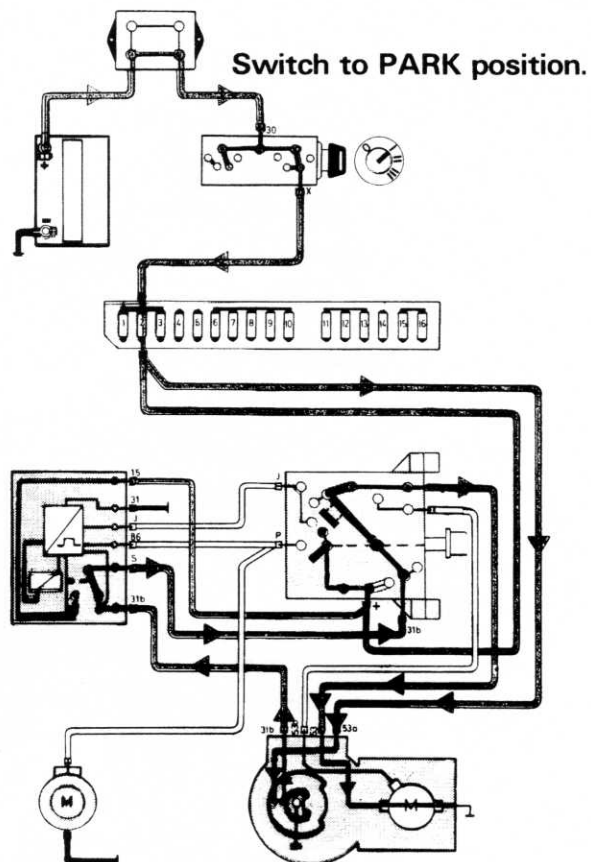
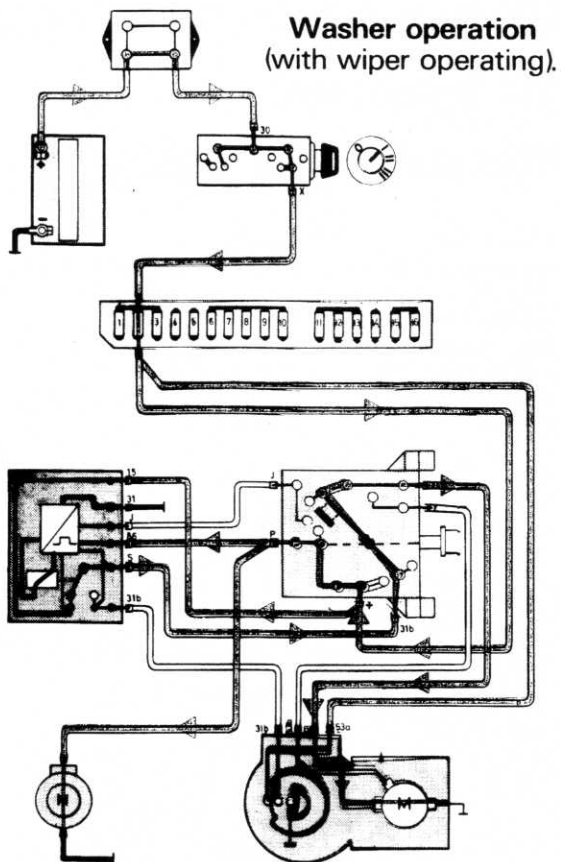
Windshield wiper and washer
Horn

Legend:

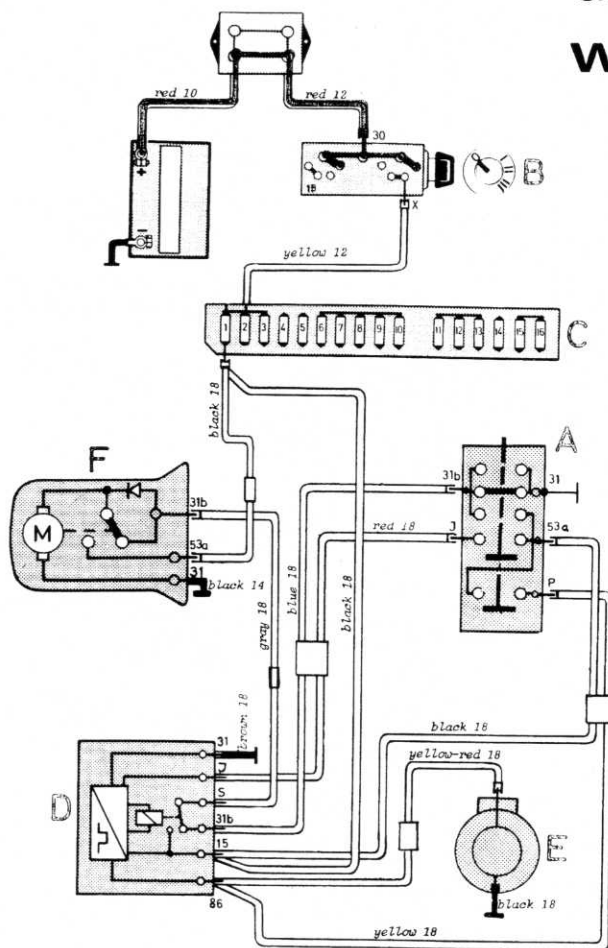
- A Wiper motor
- B Ignition switch
- C Switch, wiper / washer
- D Washer motor
- E Interval relay
- F Fuse box





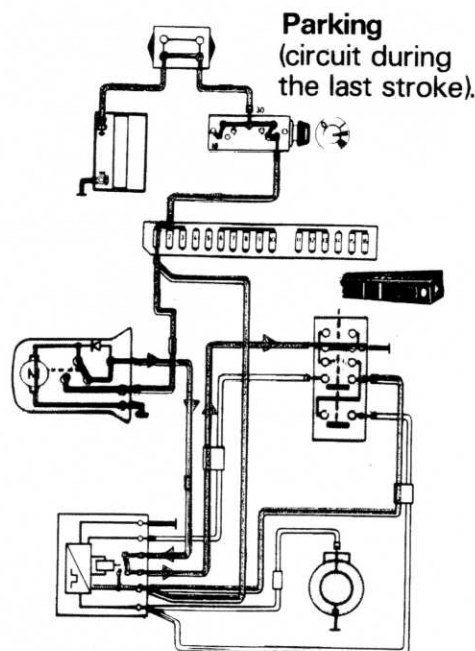


Tail gate window wiper and washer, with interval relay



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

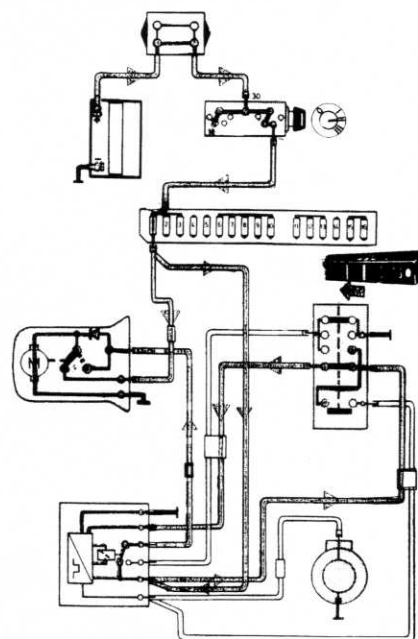
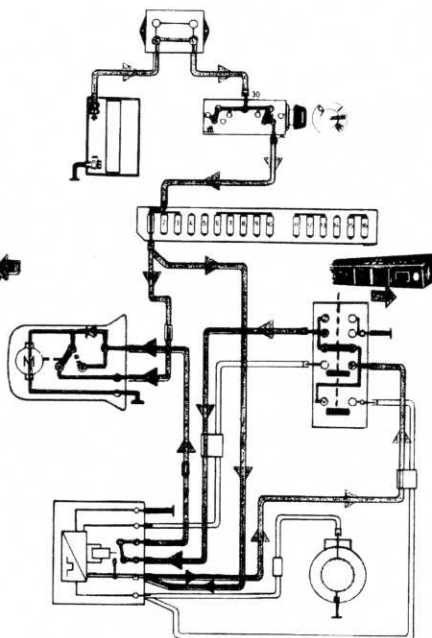
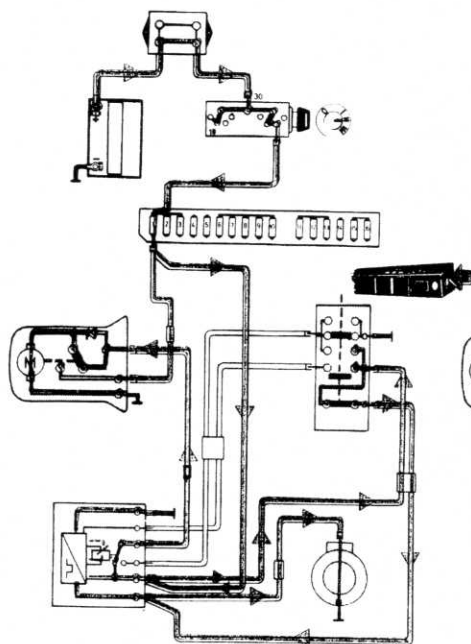
Legend:
A Switch, tail gate window
wiper / washer
B Ignition switch
C Fuse box
D Interval relay
E Washer motor
F Wiper motor

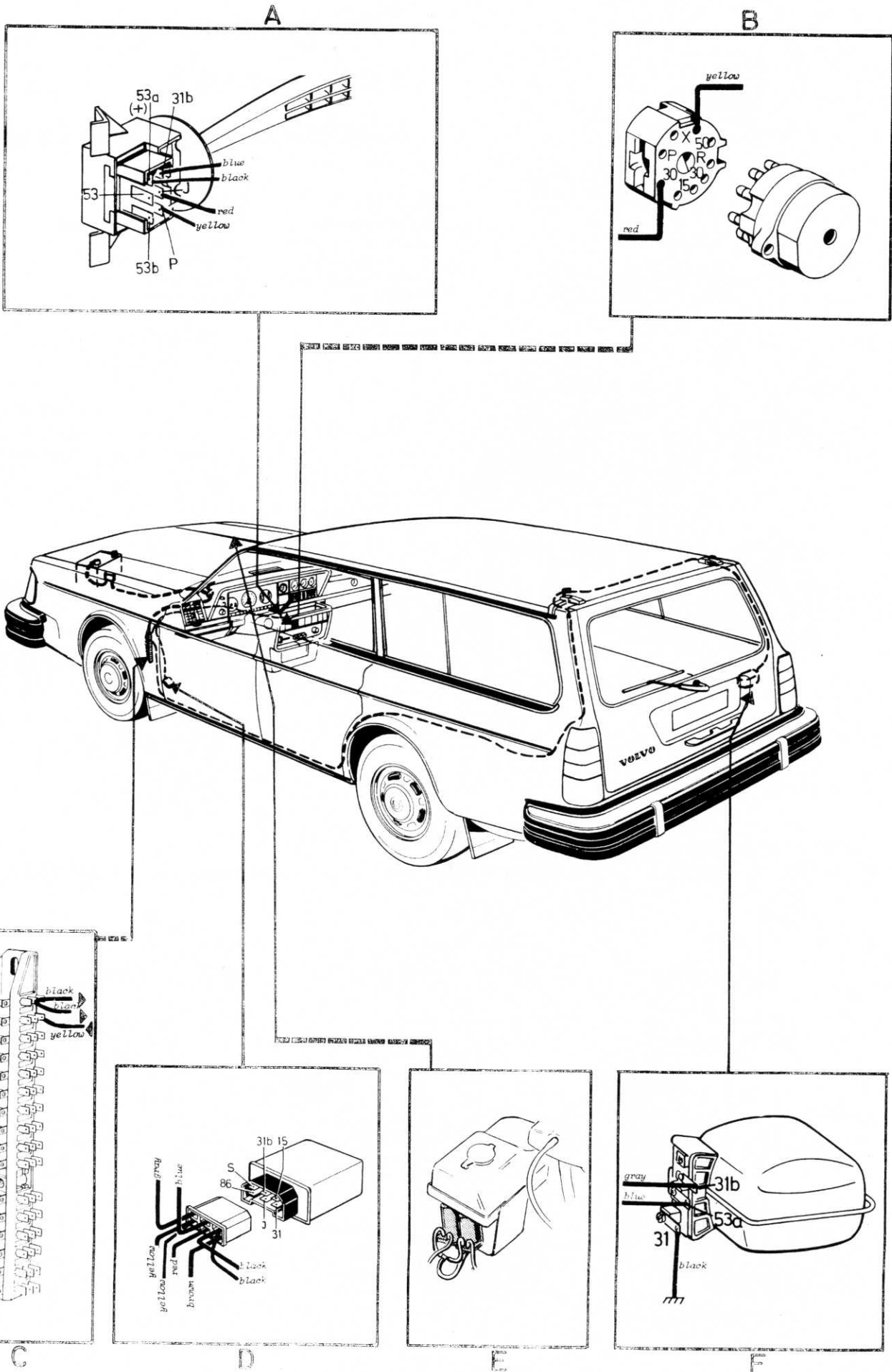


**Washer ON. Wiper motor
makes a few strokes.**

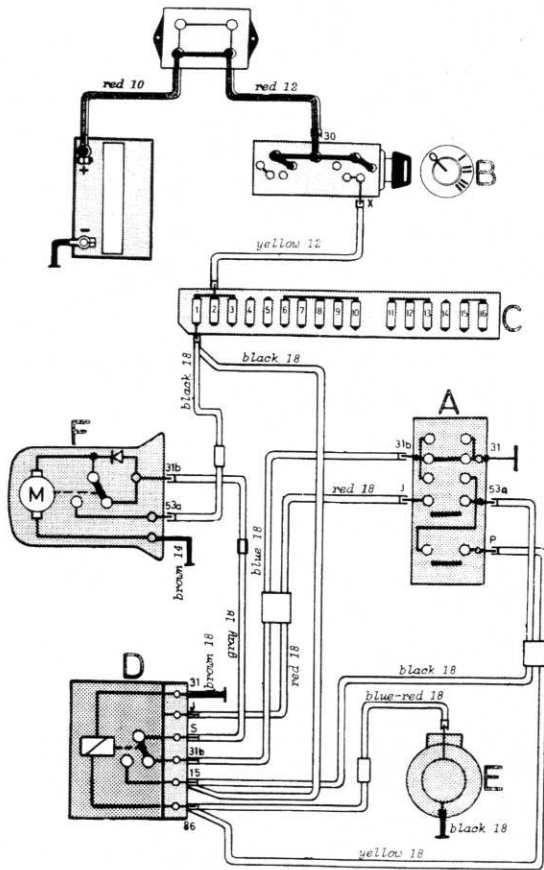
Wiper motor ON.

Intermittent wiper operation.





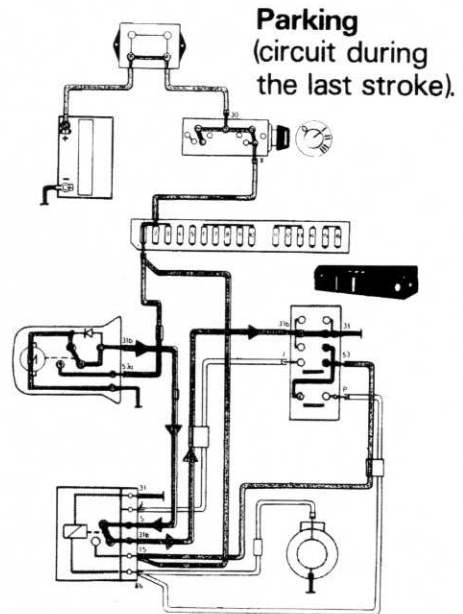
Tail gate window wiper and washer, without interval relay



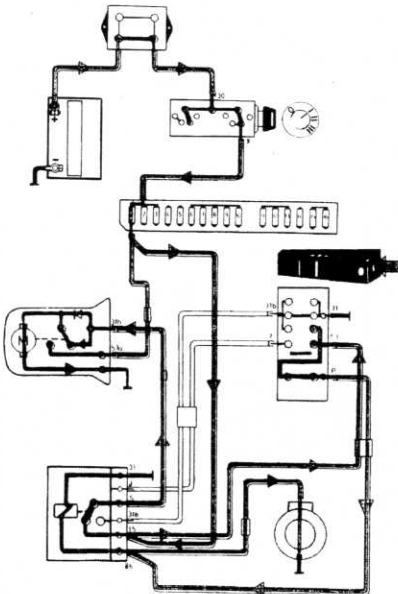
Fuse No. 1:
Cigarette lighter
Tail gate window
wiper and washer
Electrically operated
side mirrors
Radio (and power
antenna)

Legend:

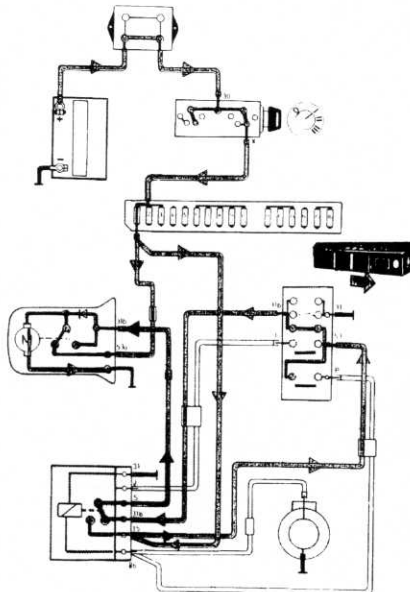
- A Switch, tail gate window wiper / washer
- B Ignition switch
- C Fuse box
- D Connector
- E Washer motor
- F Wiper motor



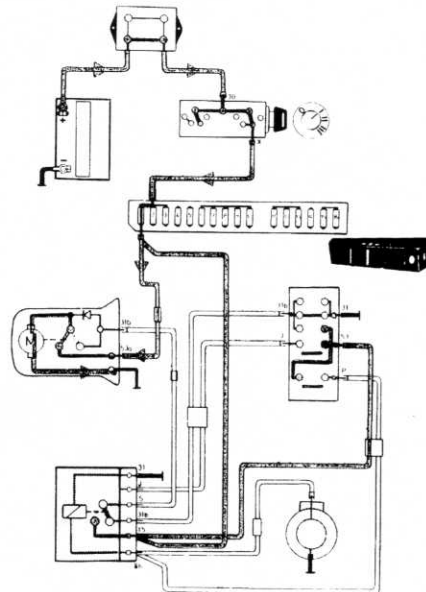
Washer operation
(with wiper operating).

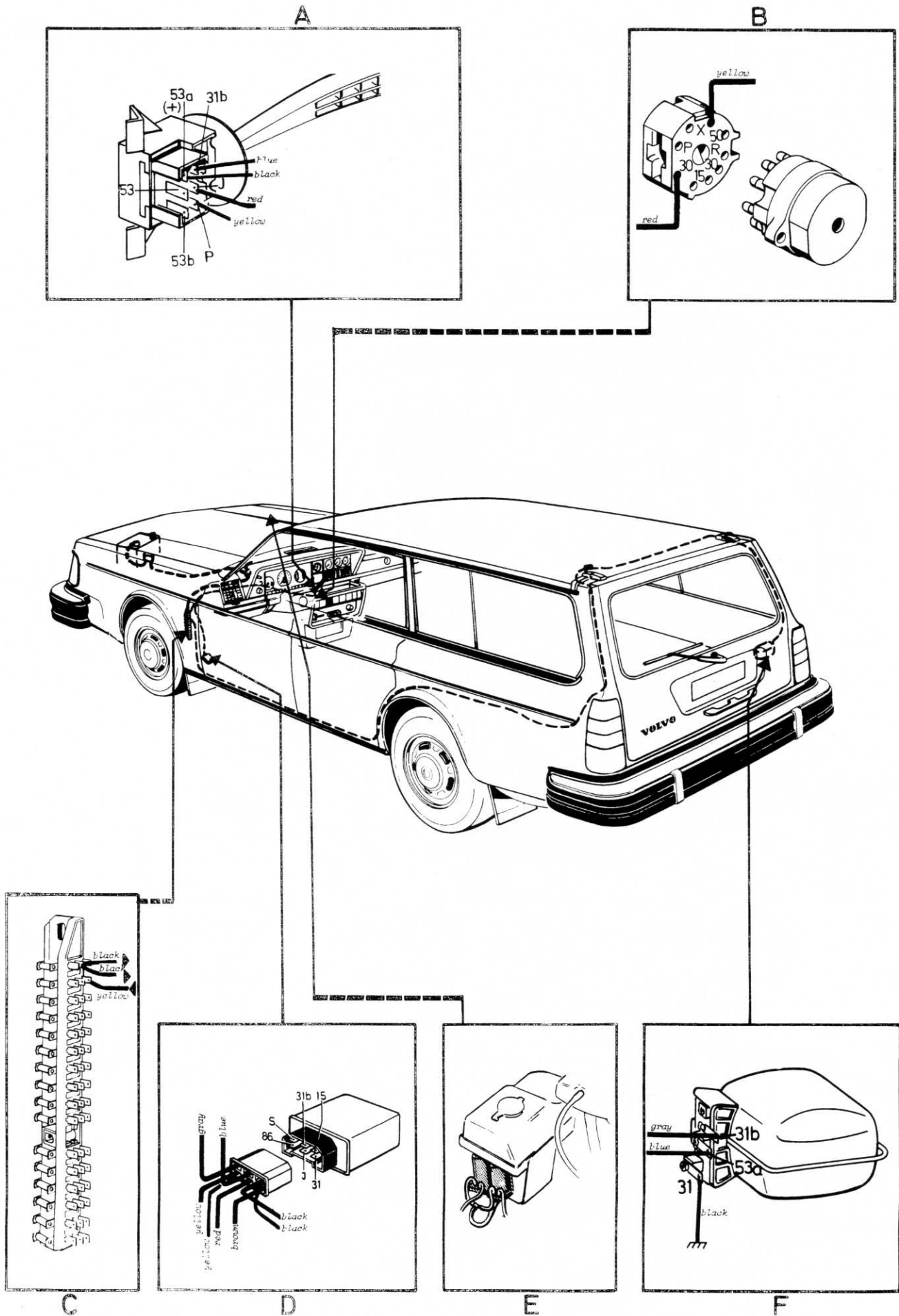


Wiper motor ON.

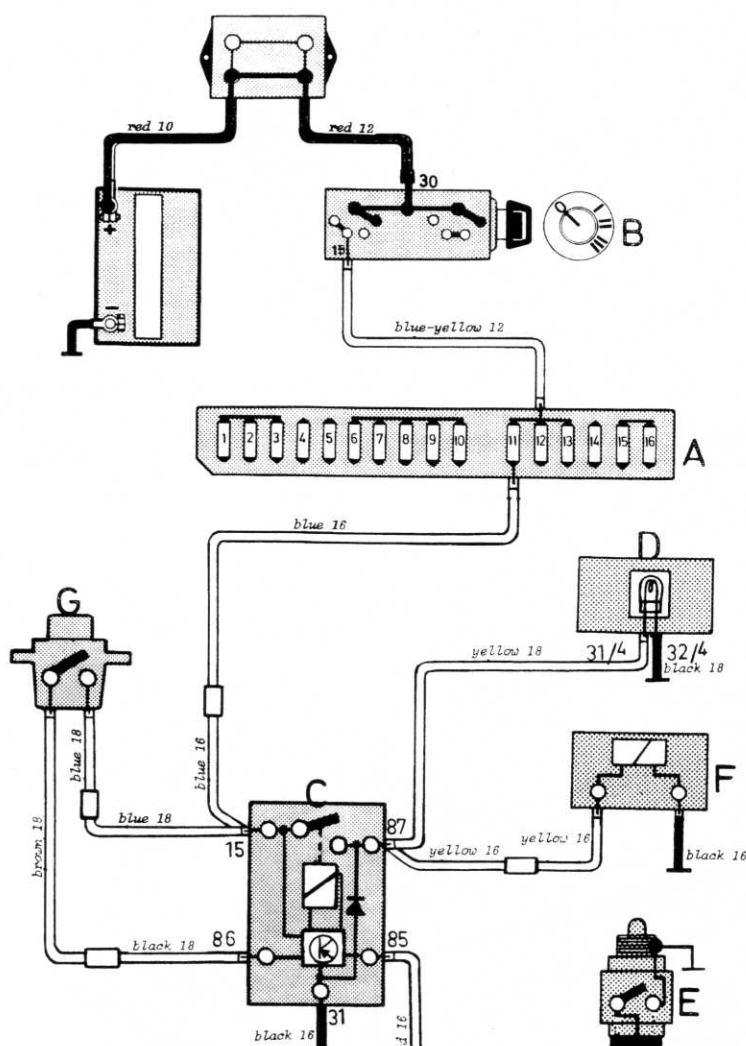


Switch to PARK position.





Overdrive



Fuse No. 11:

Overdrive
Rear demist

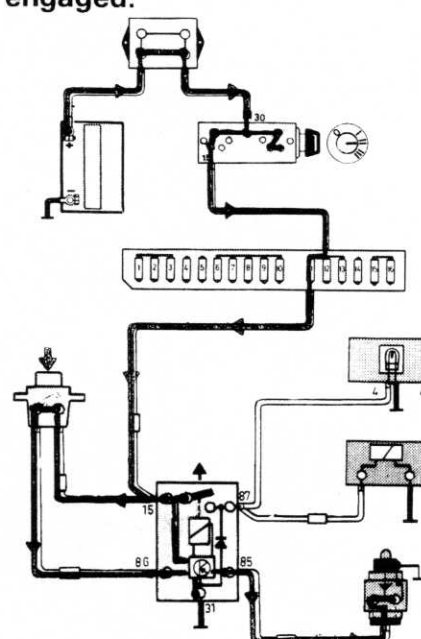
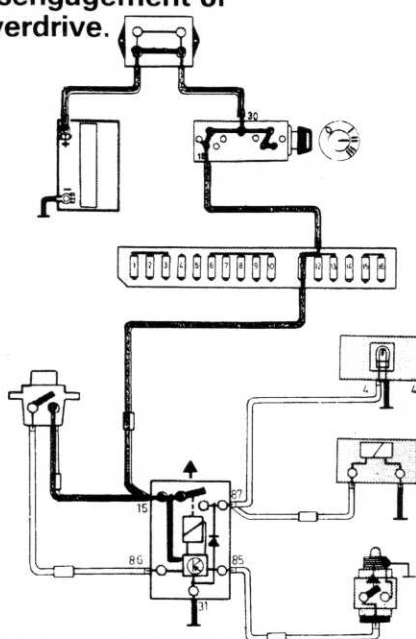
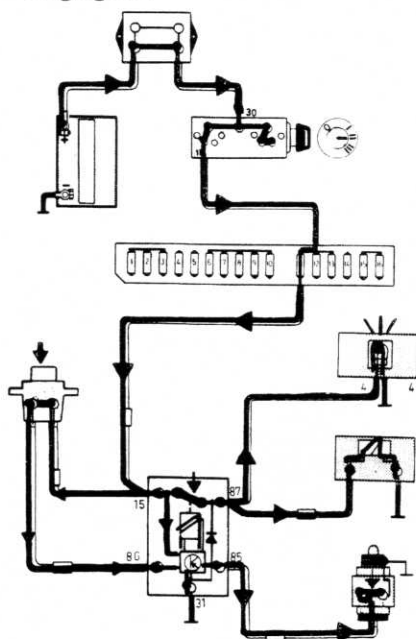
Legend:

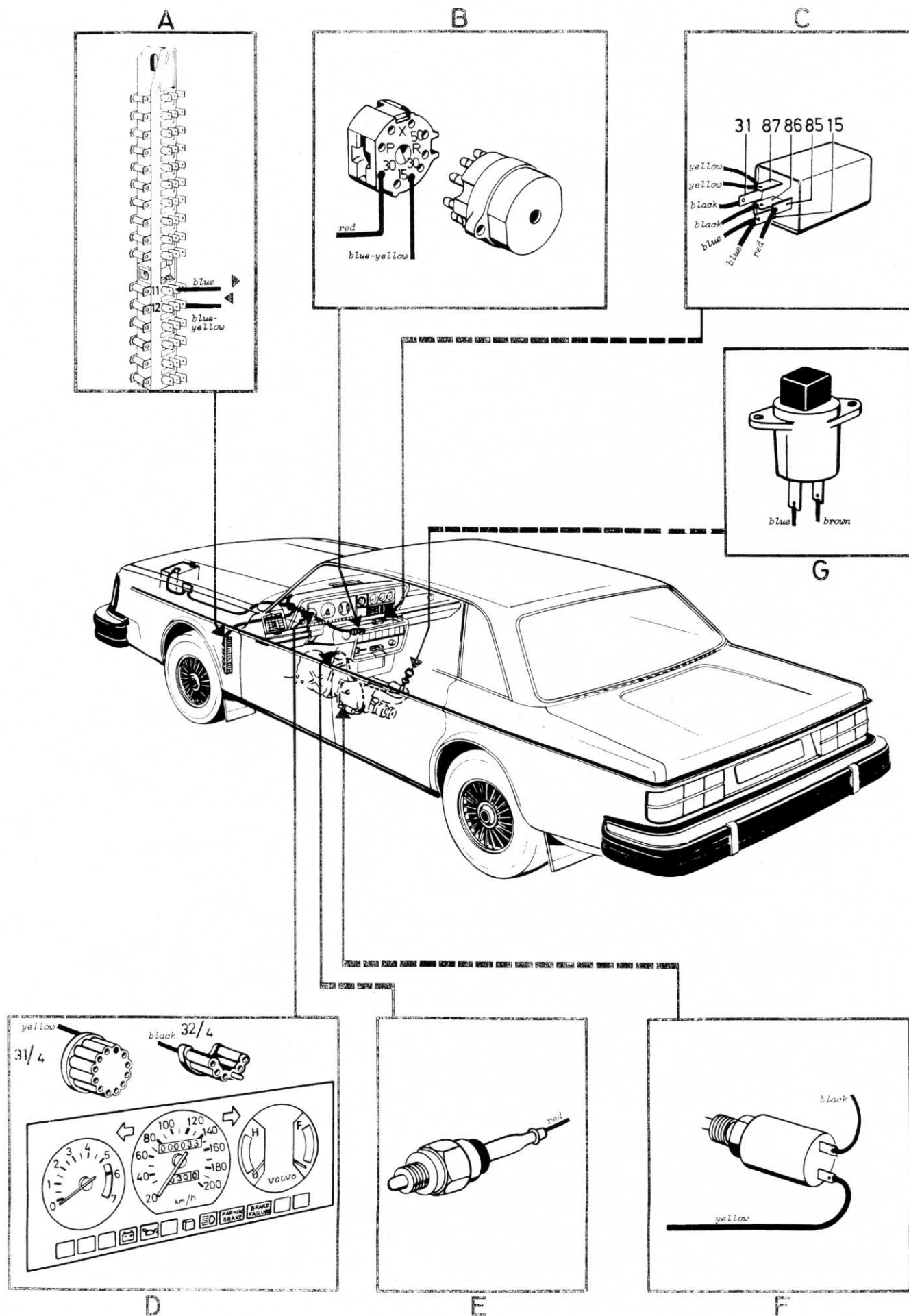
- A Fuse box
- B Ignition switch
- C Overdrive relay
- D Indicator light in instrument cluster
- E Switch, on transmission
- F Solenoid (in overdrive)
- G Overdrive engagement switch (on gear lever)

Manual engagement of overdrive. Fourth gear engaged.

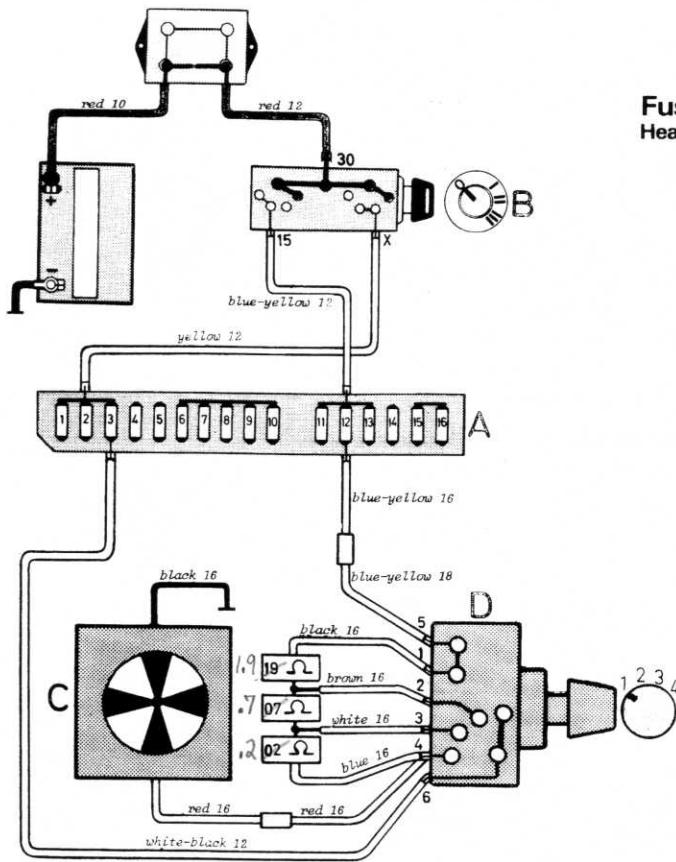
Downshift from fourth gear. Automatic disengagement of overdrive.

Manual disengagement of overdrive. Fourth gear engaged.





Heater blower



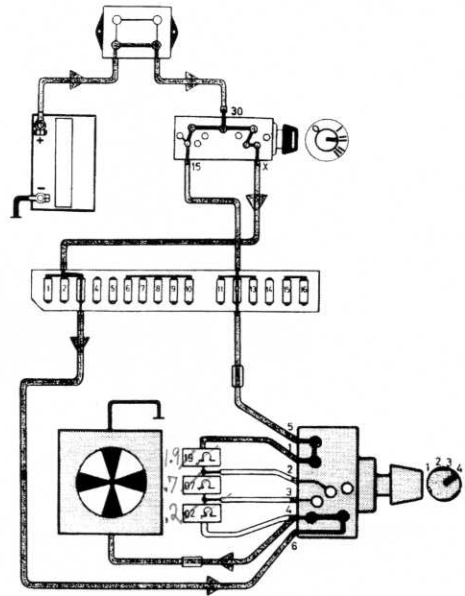
Fuse No. 3:
Heater blower

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

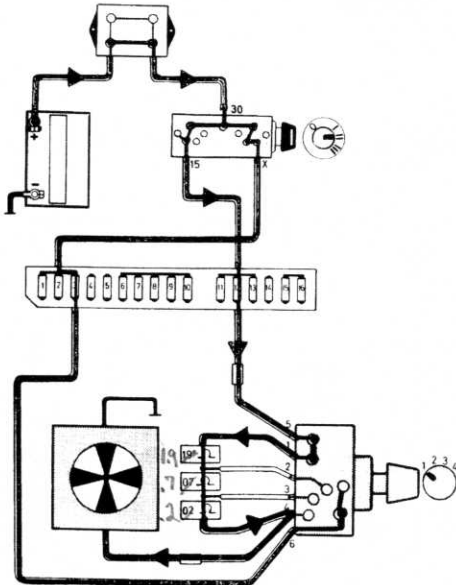
Legend:

- A Fuse box
- B Ignition switch
- C Blower motor
- D Switch

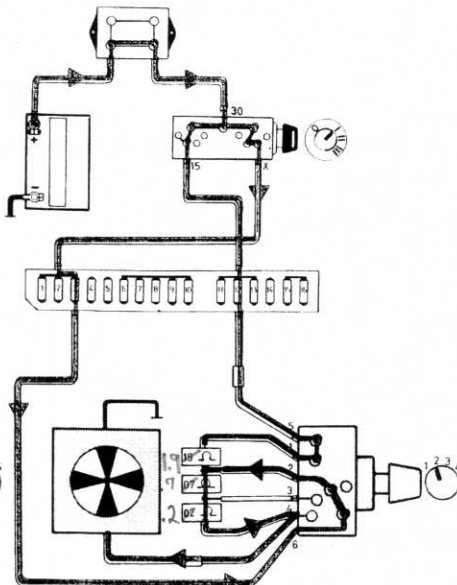
4. Highest speed



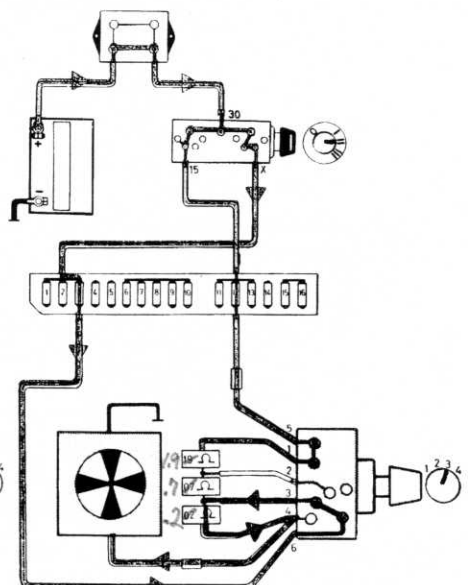
1. Low speed

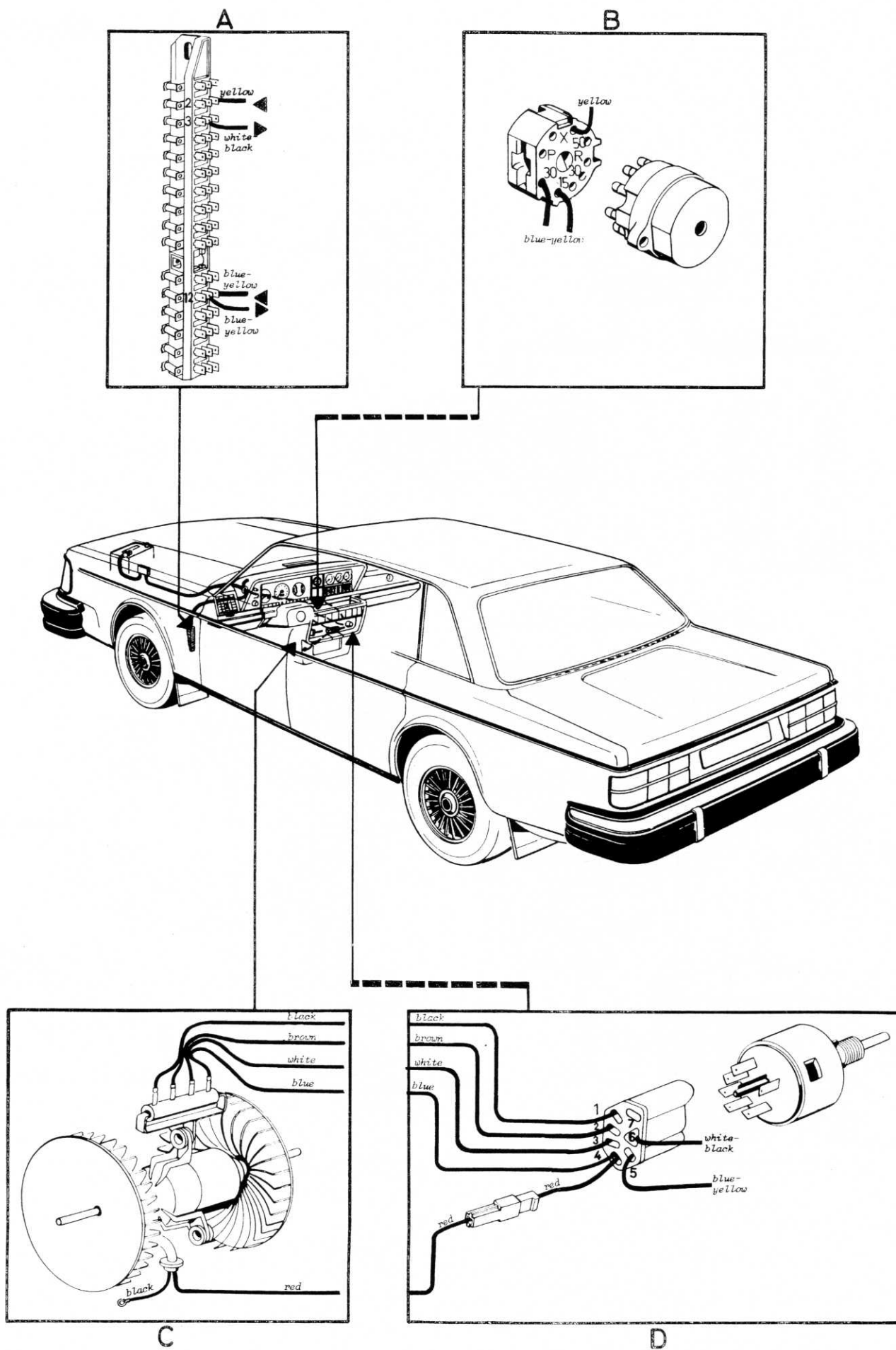


2. Medium speed

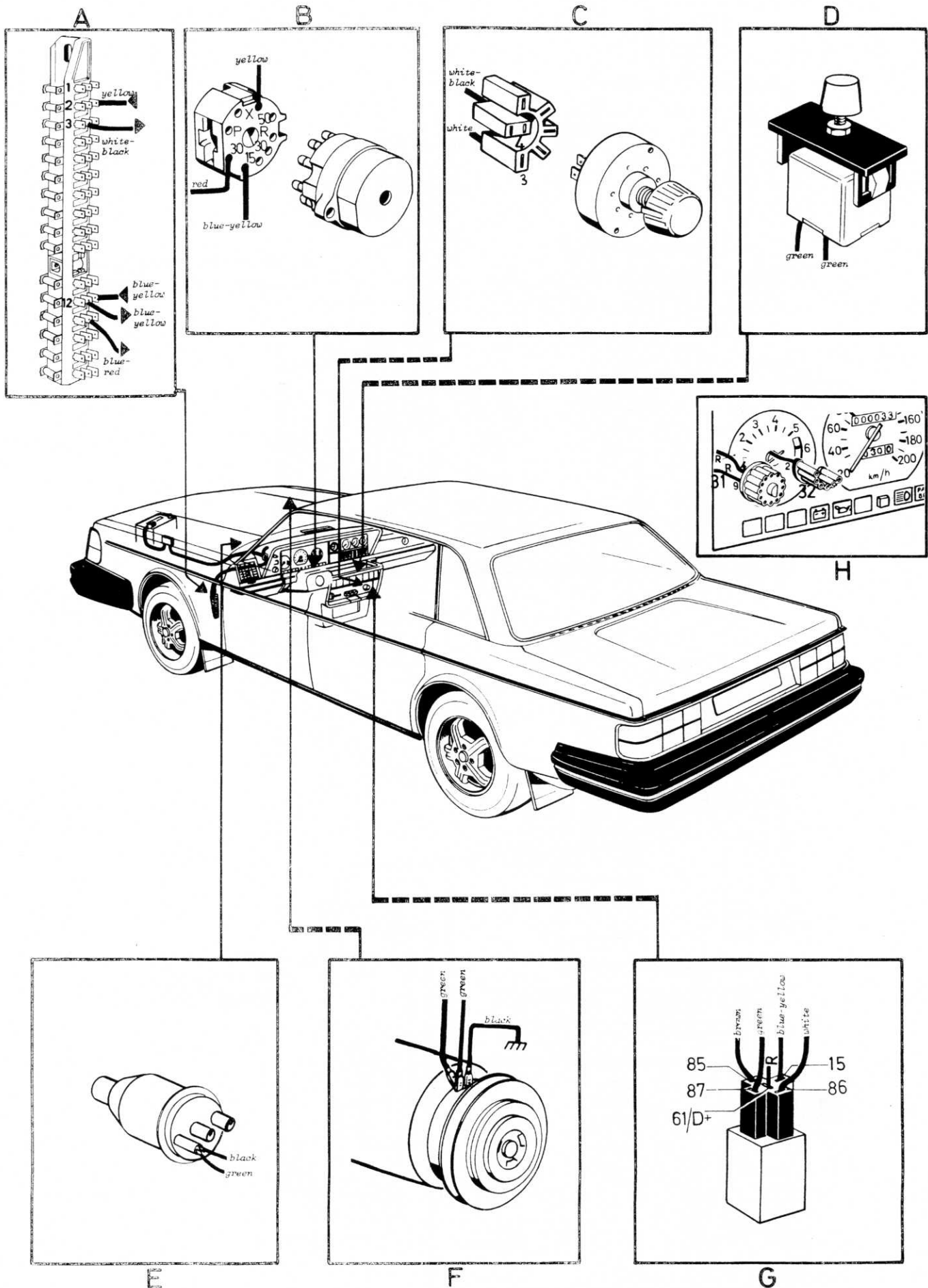


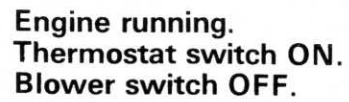
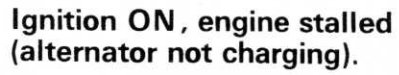
3. High speed

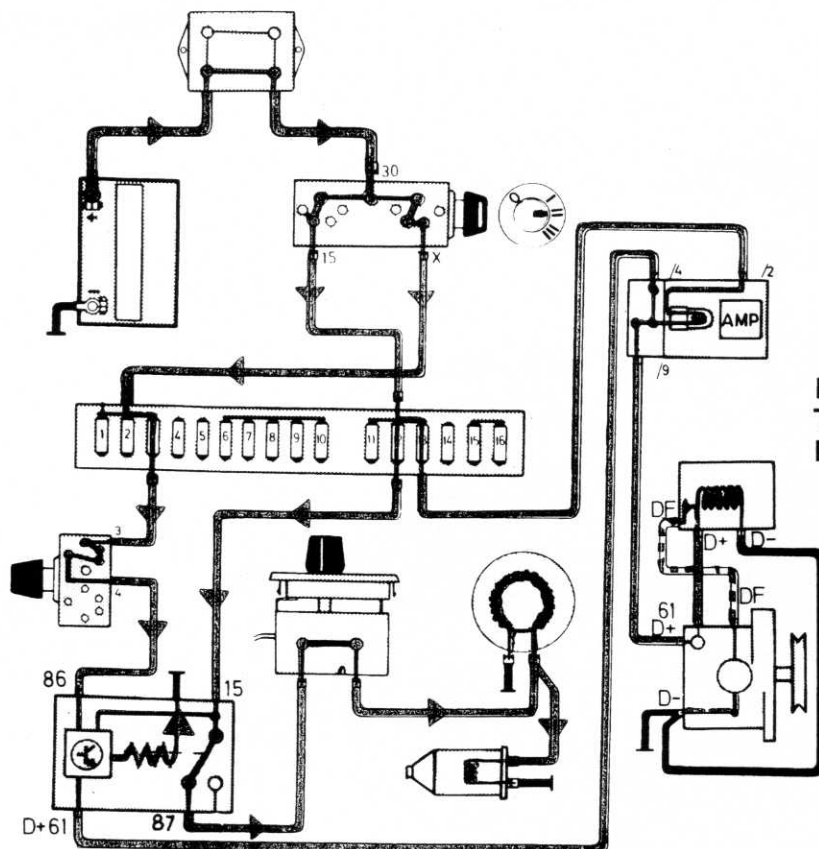




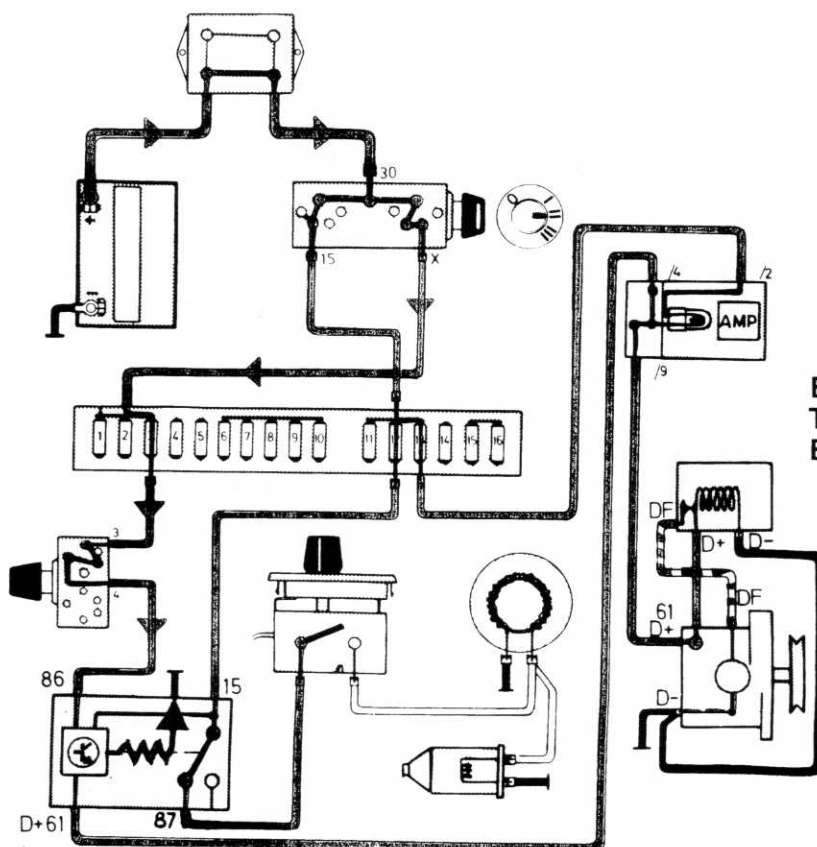






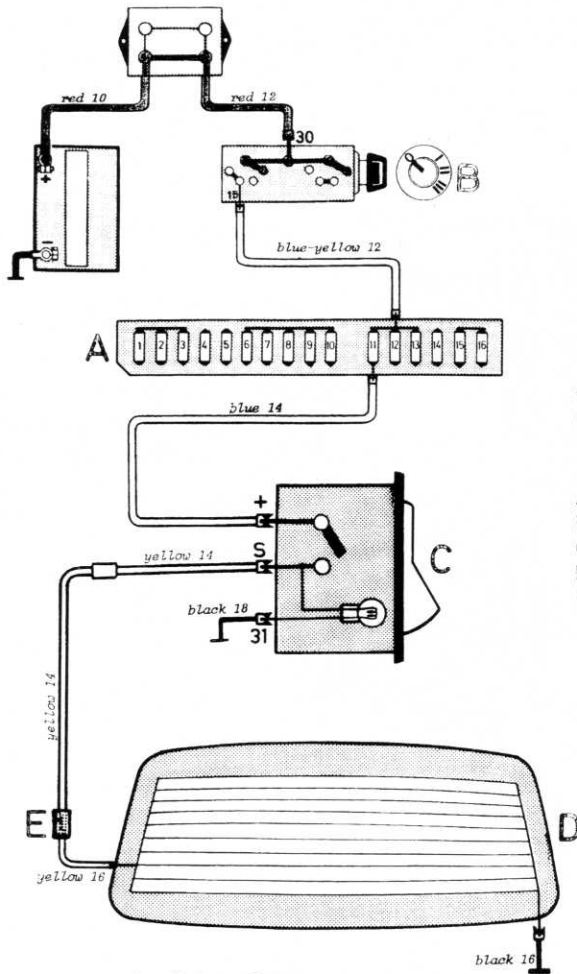


Engine running.
Thermostat switch ON.
Blower switch ON.

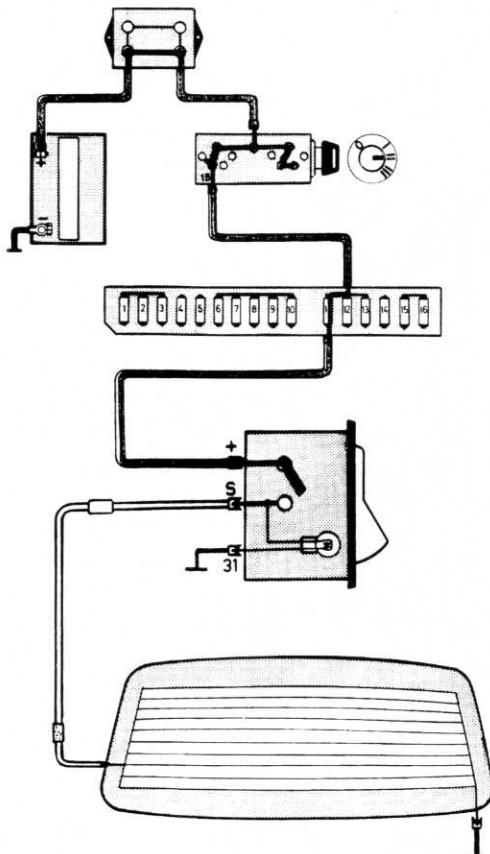


Engine running.
Thermostat switch OFF.
Blower switch ON.

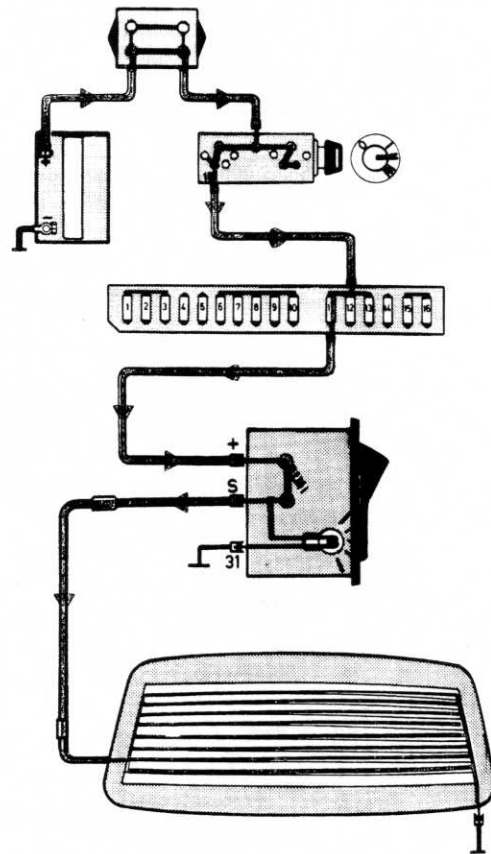
Rear demist



Ignition ON.
Rear demist OFF.



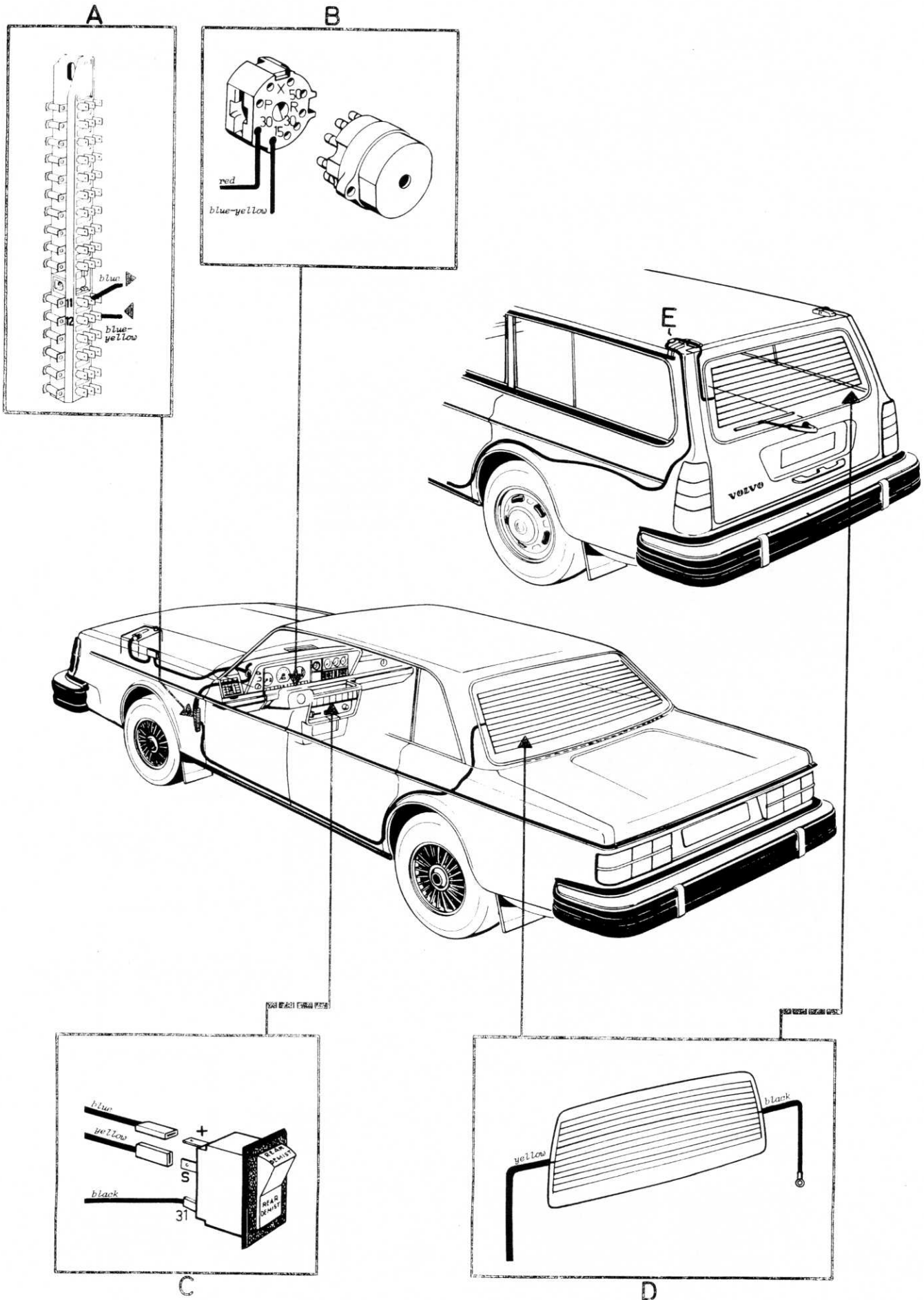
Ignition ON.
Rear demist ON.



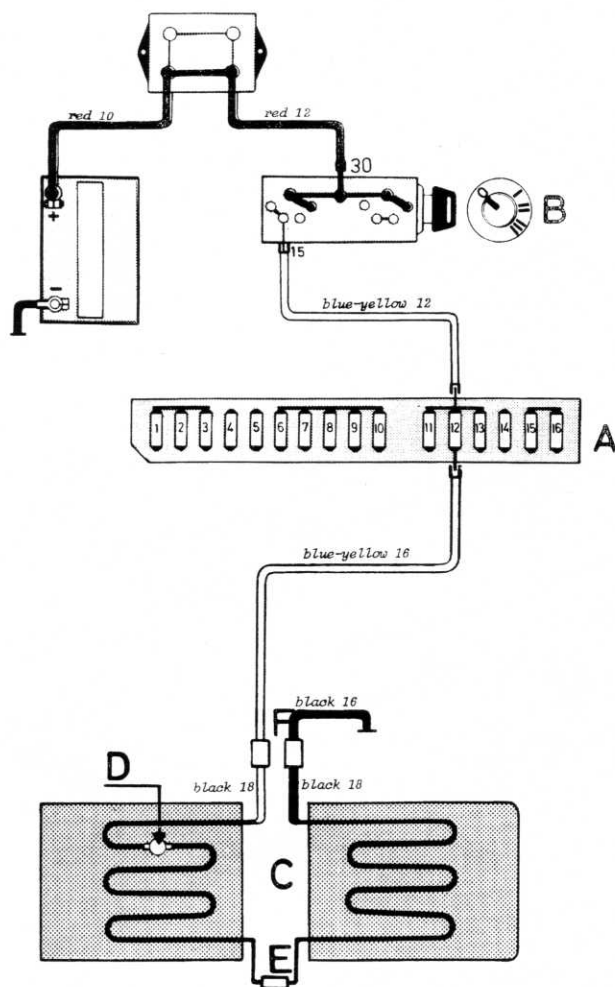
Fuse No. 11:
Overdrive
Rear demist

Legend:

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



Electrically heated driver's seat

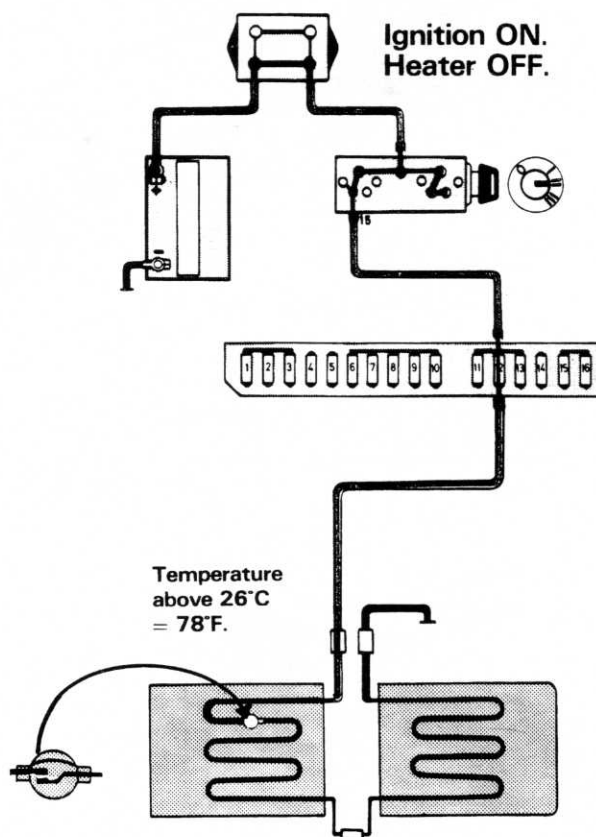
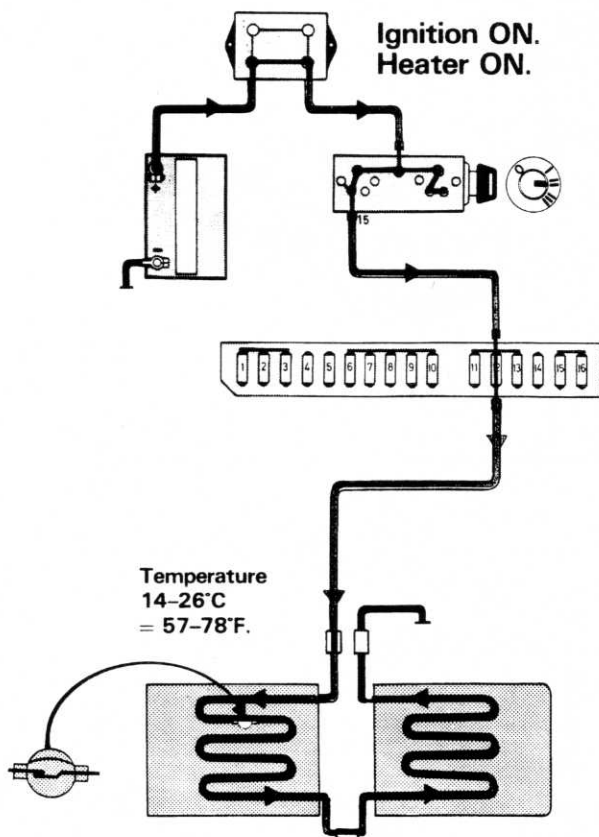


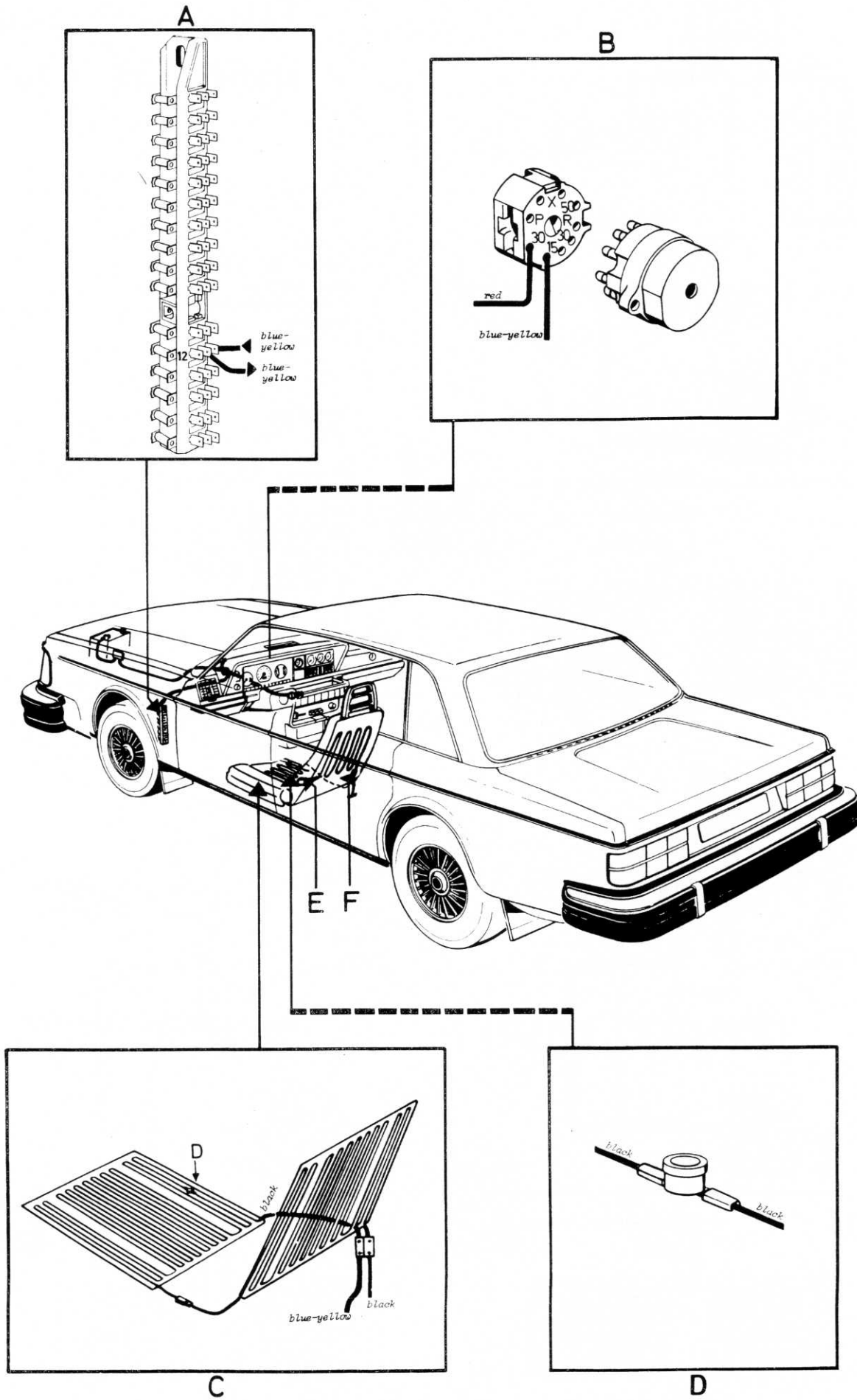
Fuse No. 10:
Window lifts

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

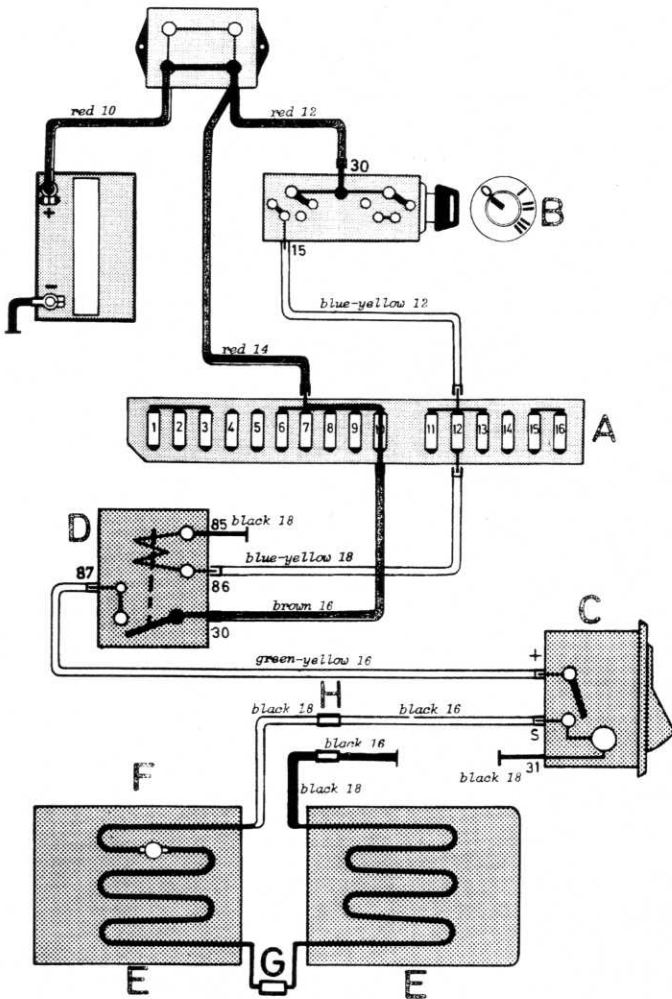
Legend:

- 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

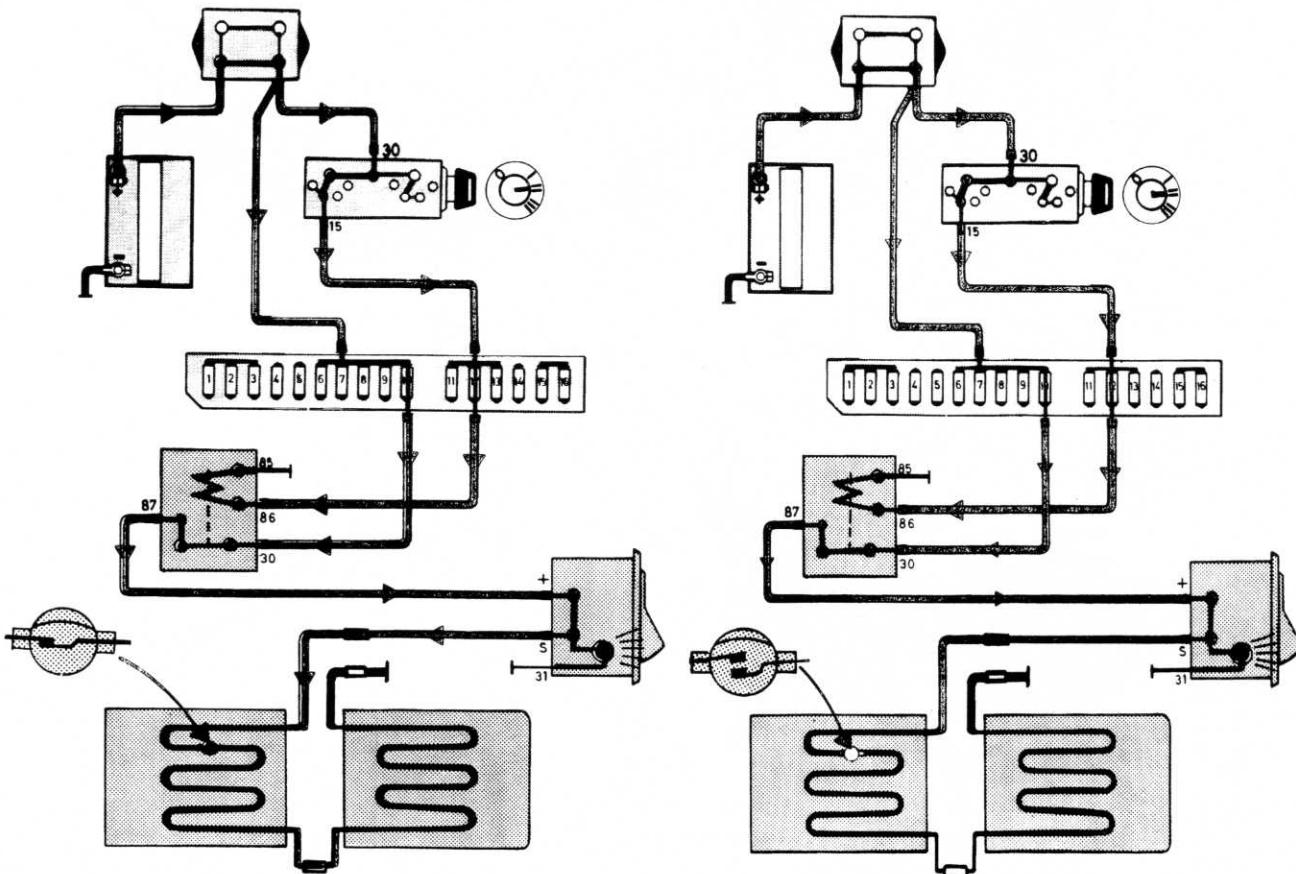


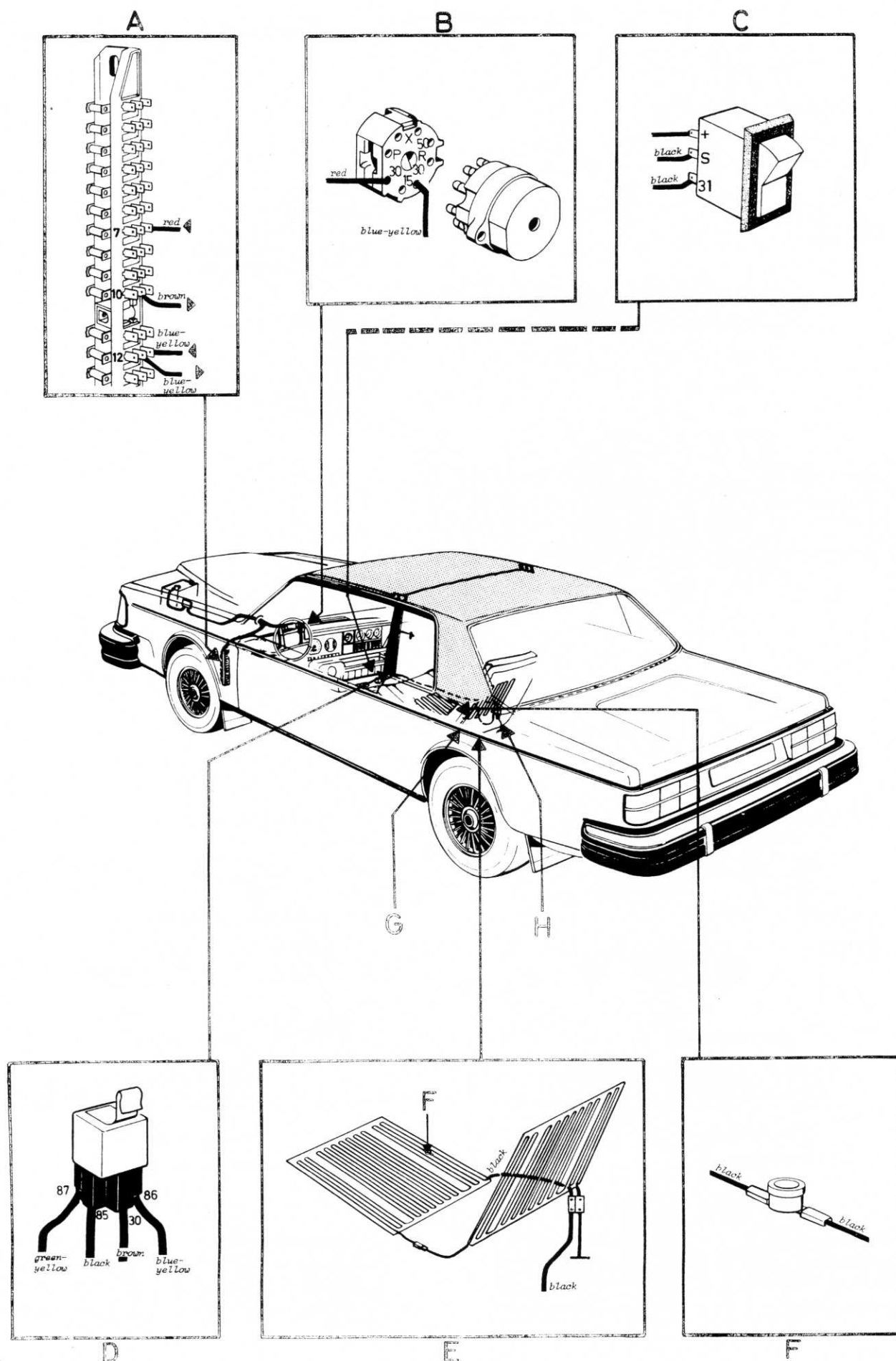
Fuse No. 10: Window lifts

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

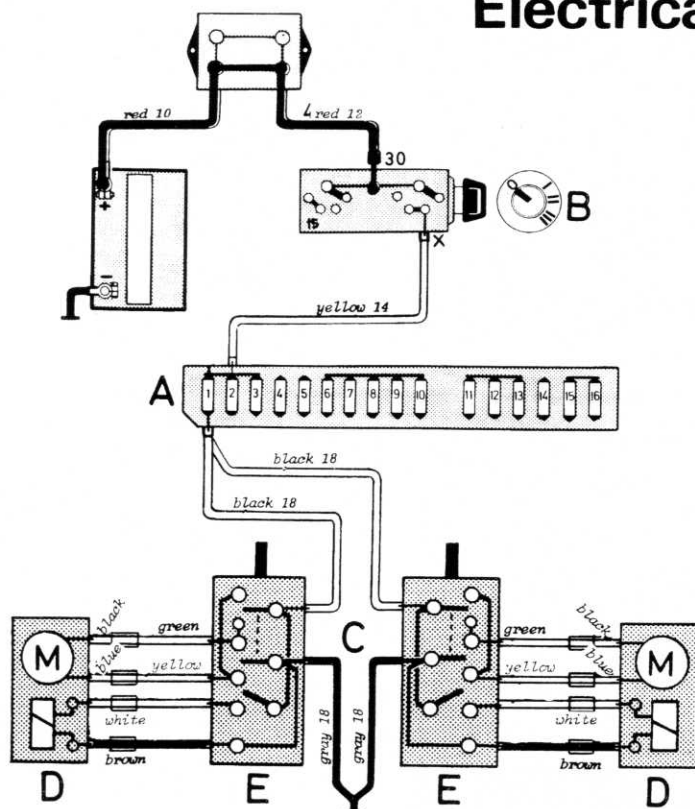
Legend:

- 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



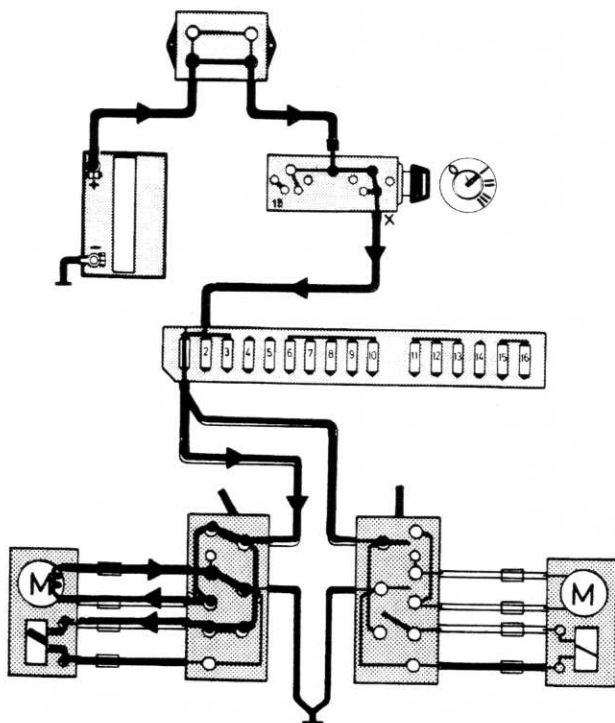
Fuse No. 1:

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

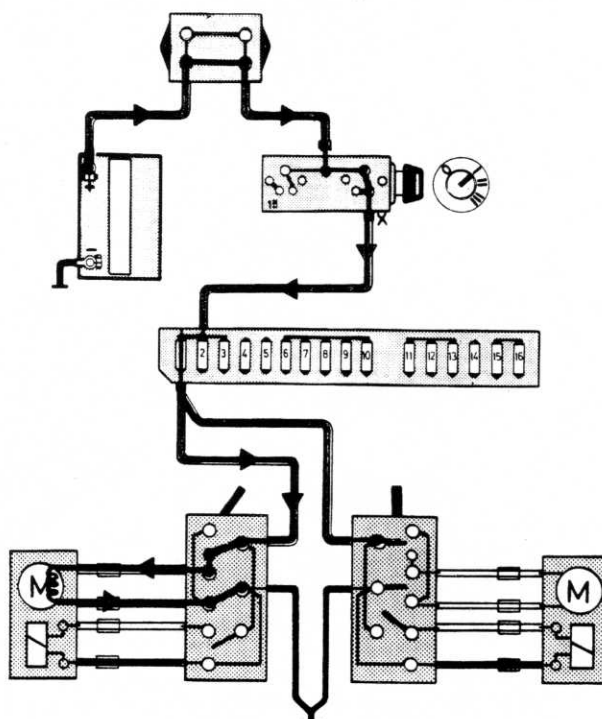
Legend:

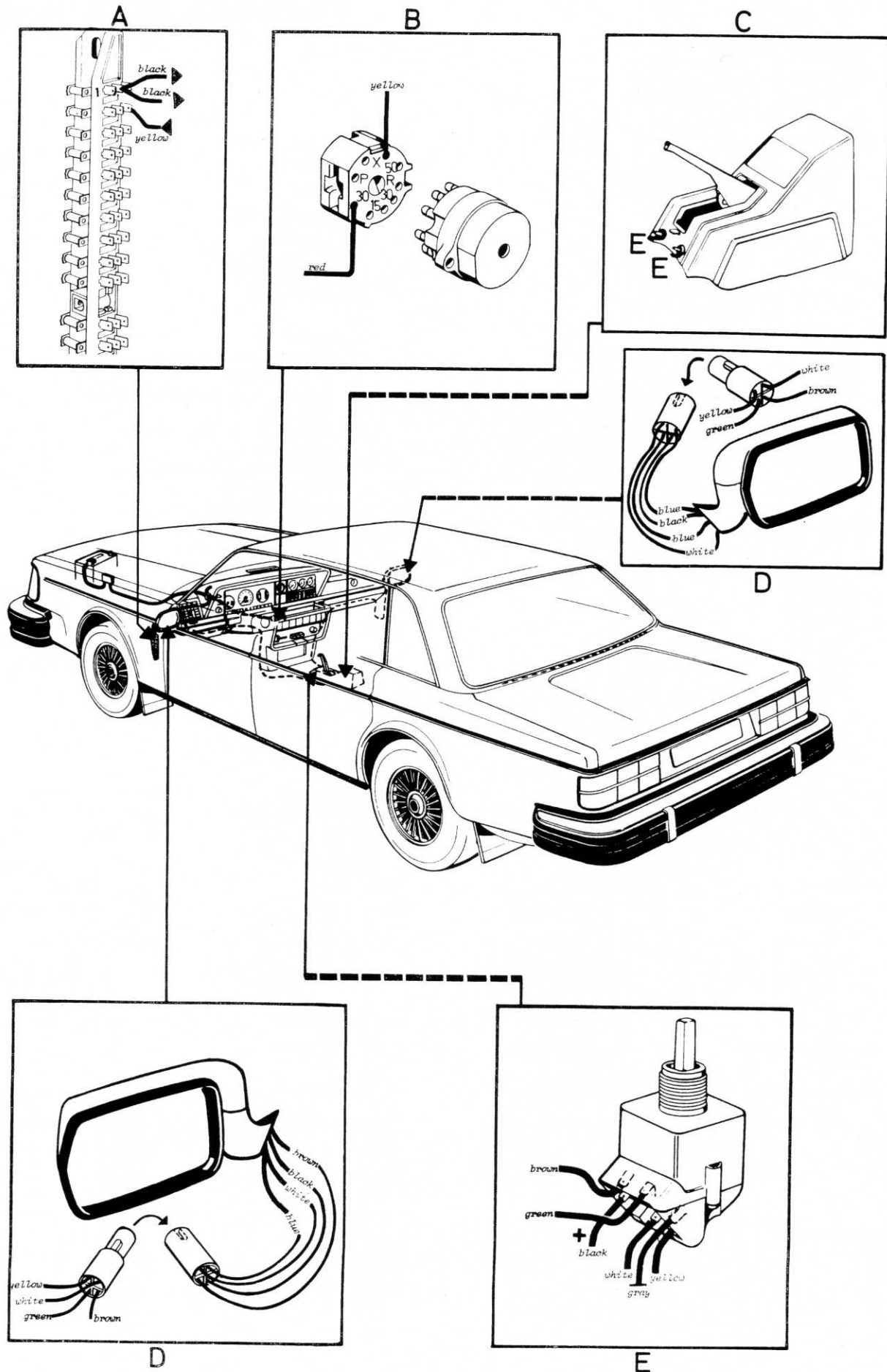
A Fuse box
B Ignition switch
C Cover, parking brake
D Electrically operated mirrors
E Switches

Operation one way.

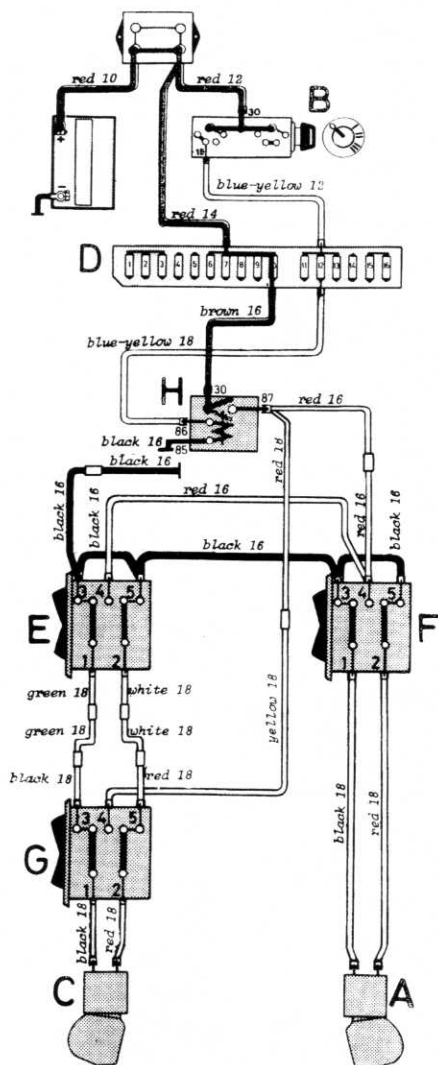


Operation other way.





Window lifts, 2-door



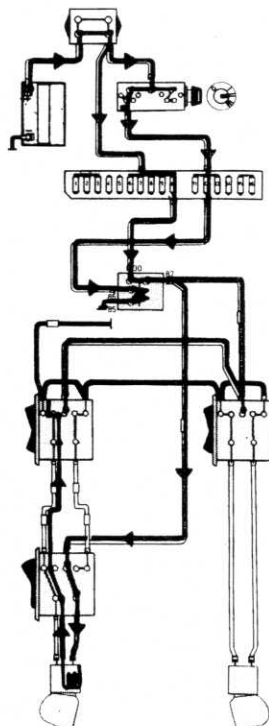
Fuse No. 10:
Window lifts

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

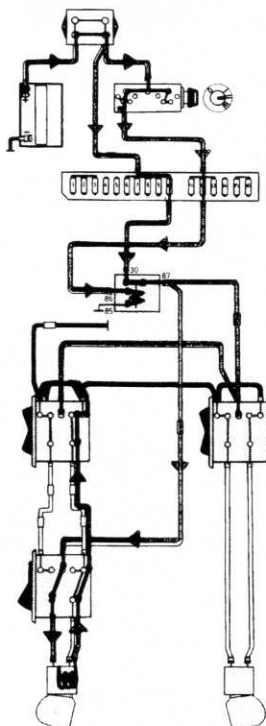
Legend:

- 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

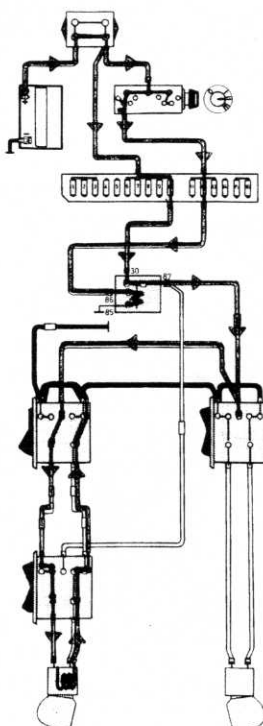
Closing right side window with switch on right side door



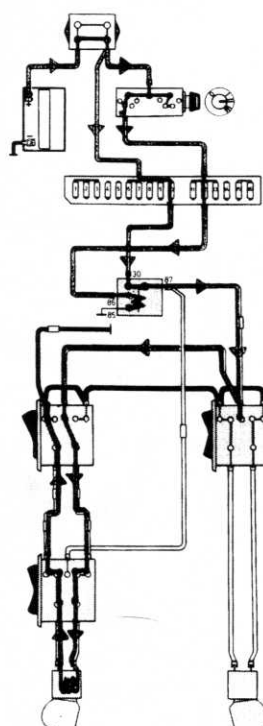
Opening right side window with switch on right side door

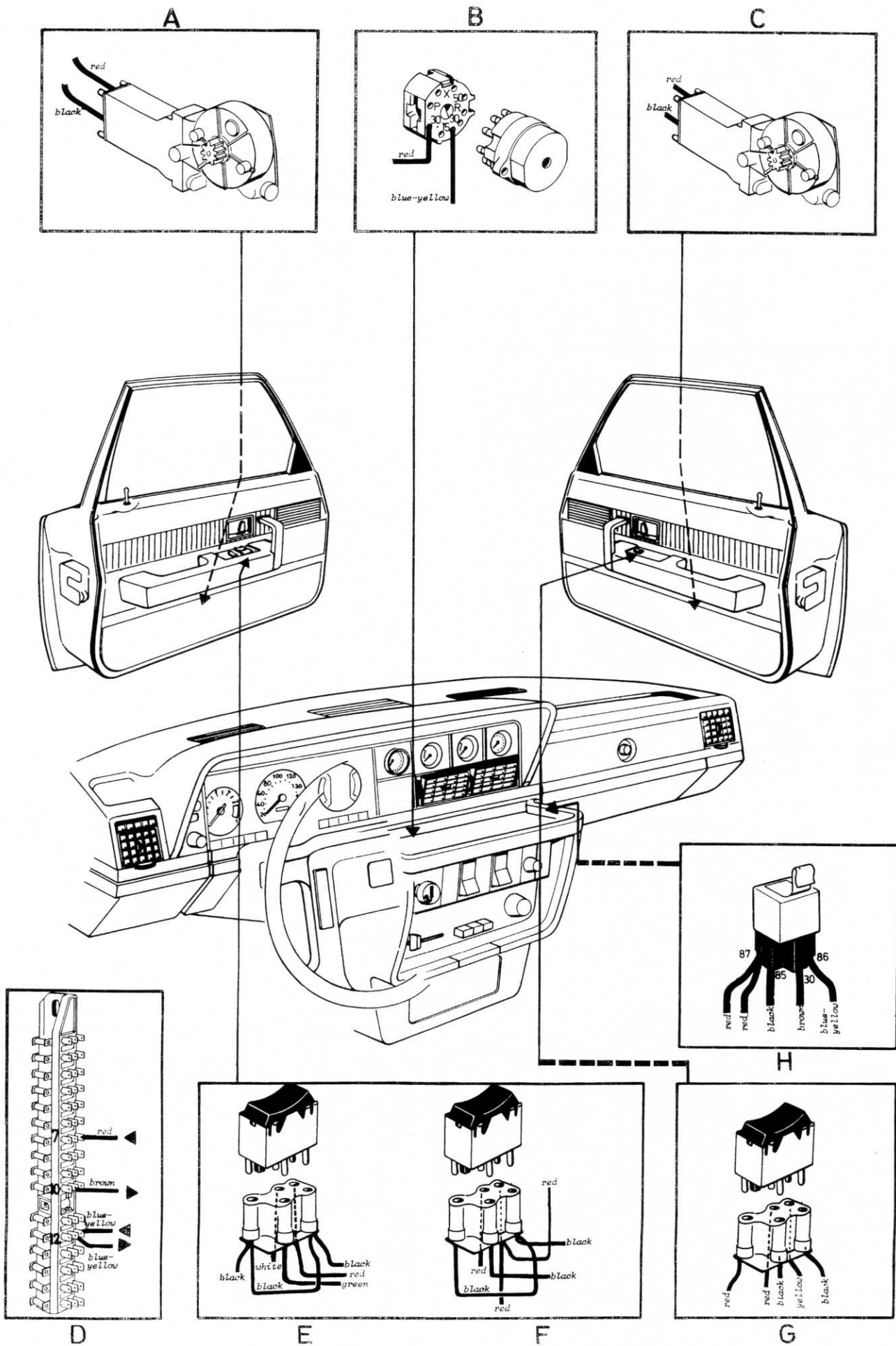


Opening right side window with switch on left side door

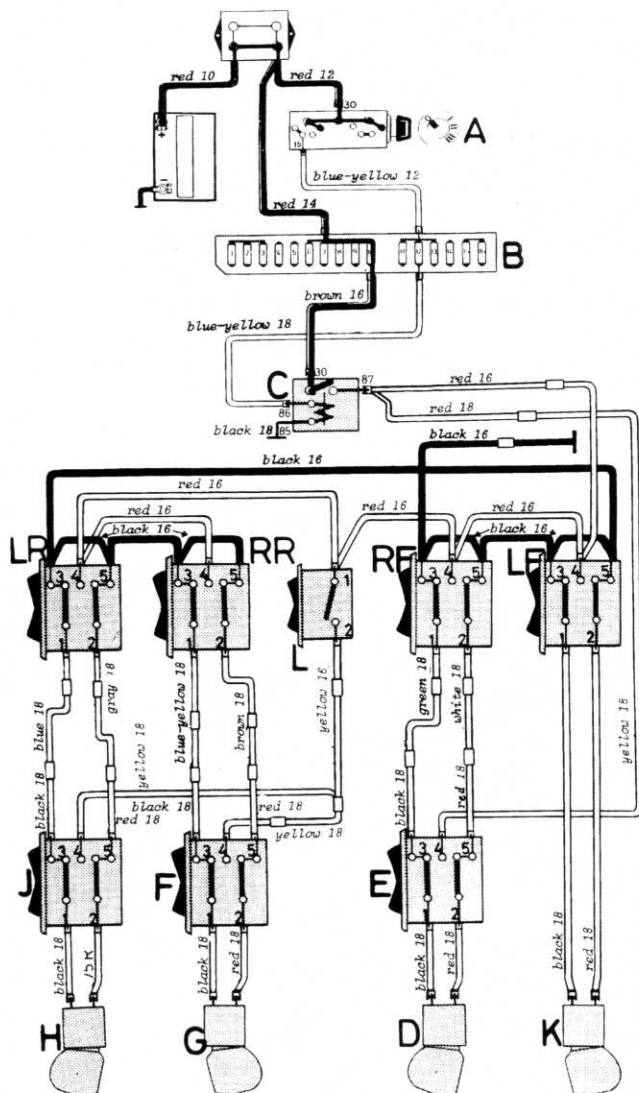


Closing right side window with switch on left side door





Window lifts, 4-door

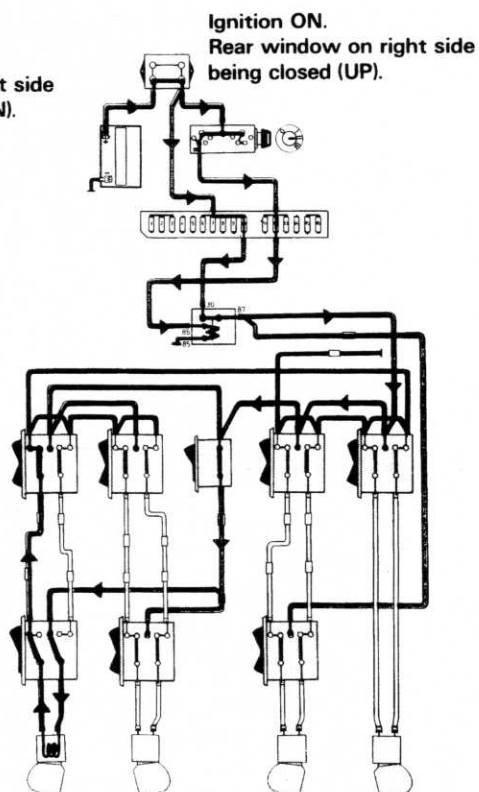
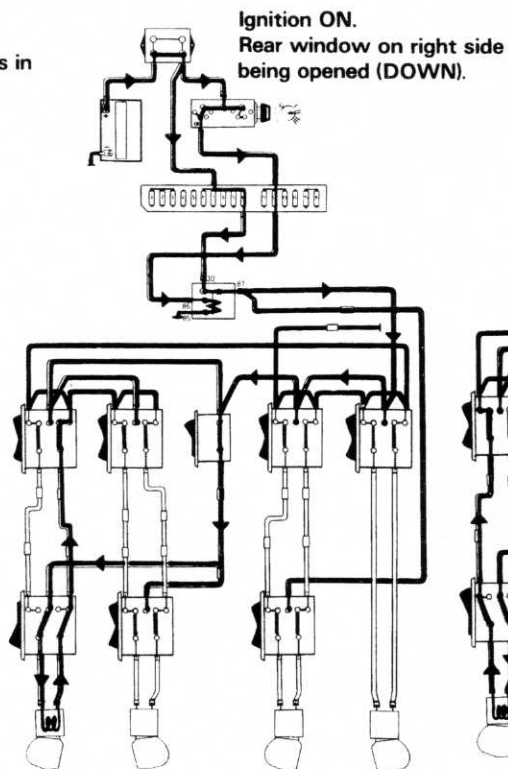
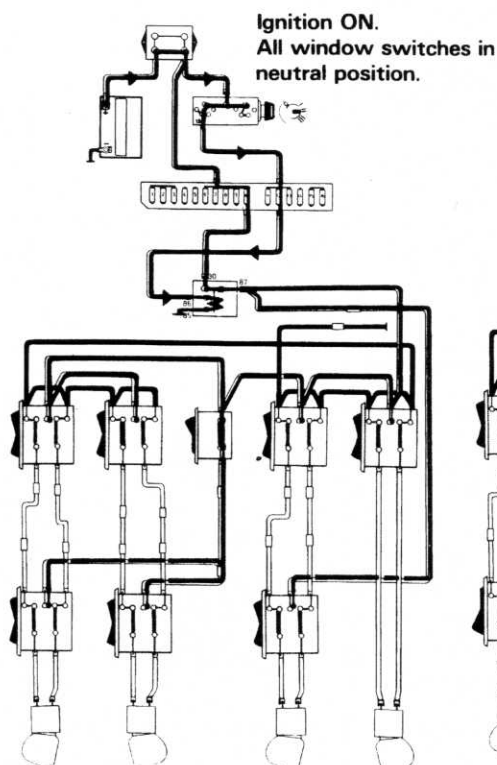


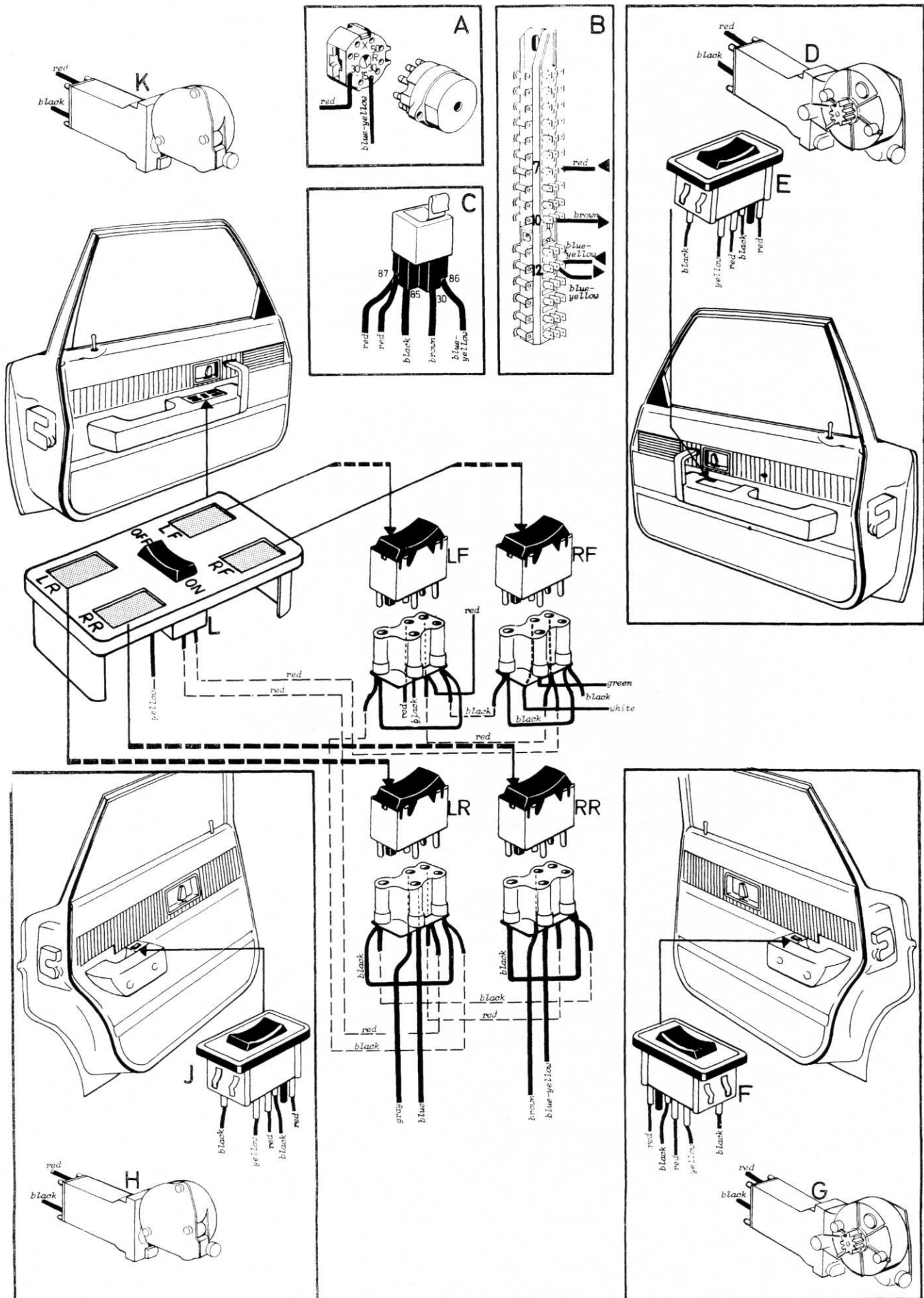
Fuse No. 10: Window lifts

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

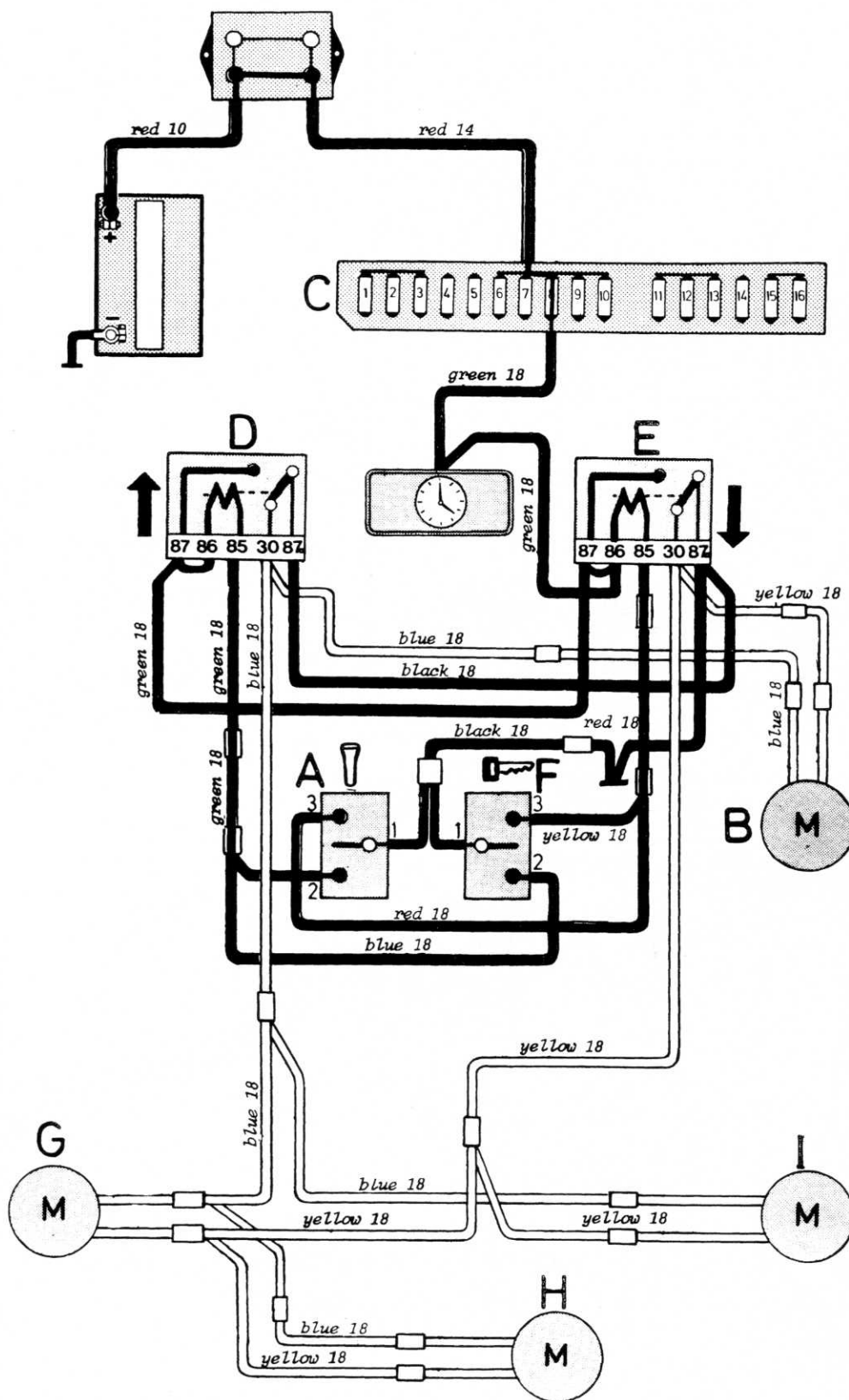
Legend:

- 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

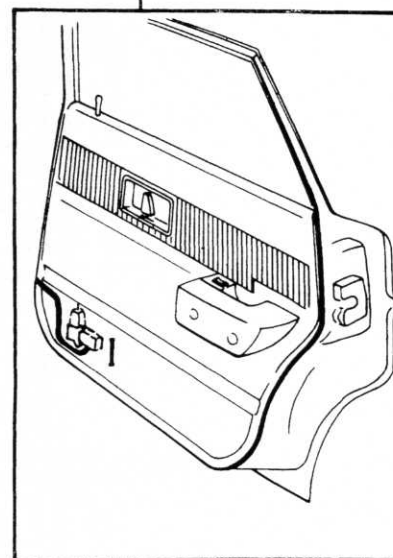
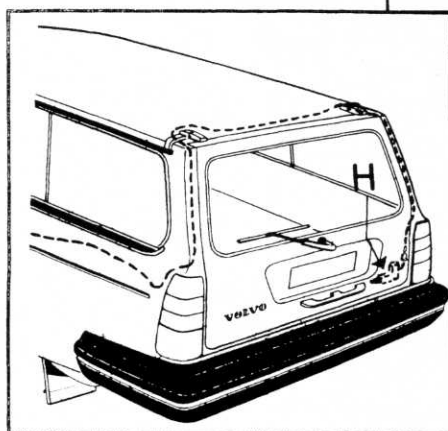
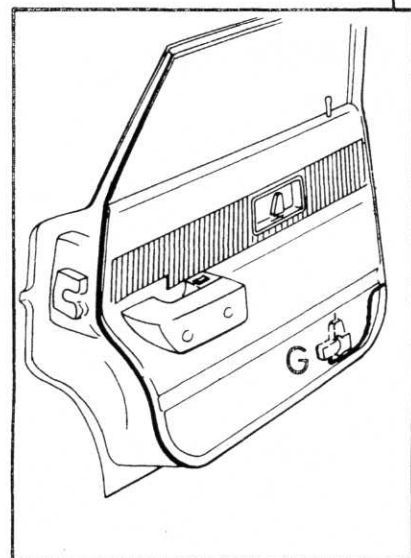
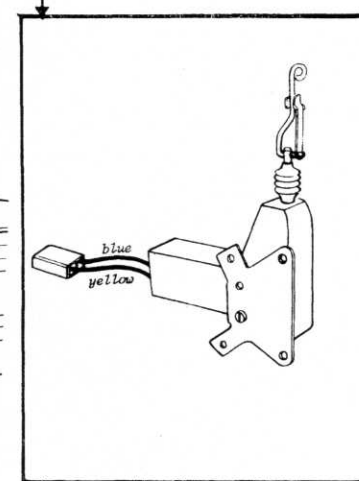
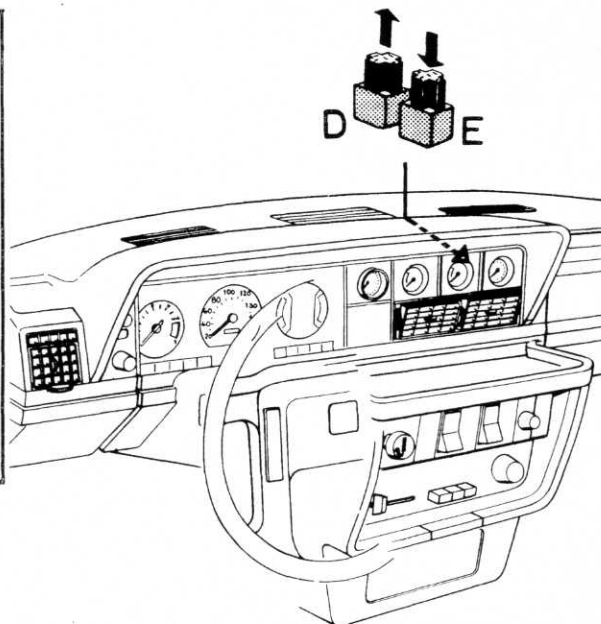
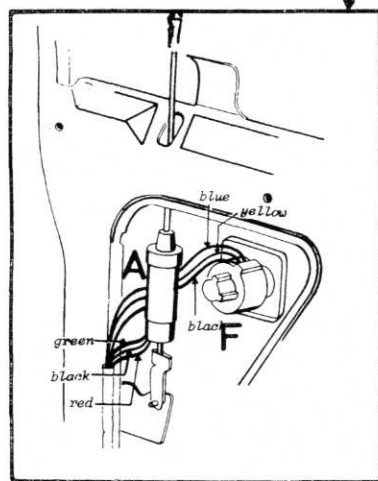
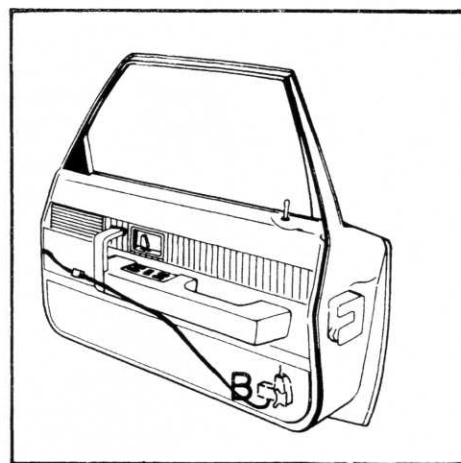
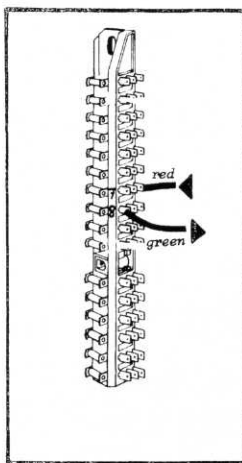
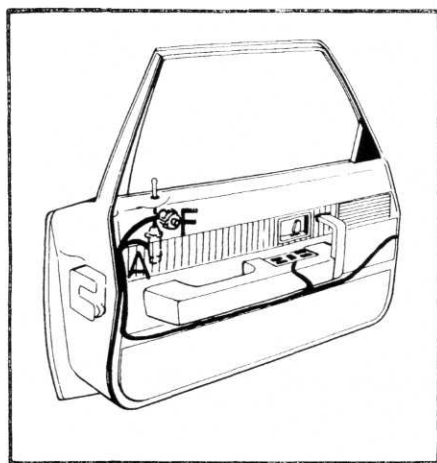


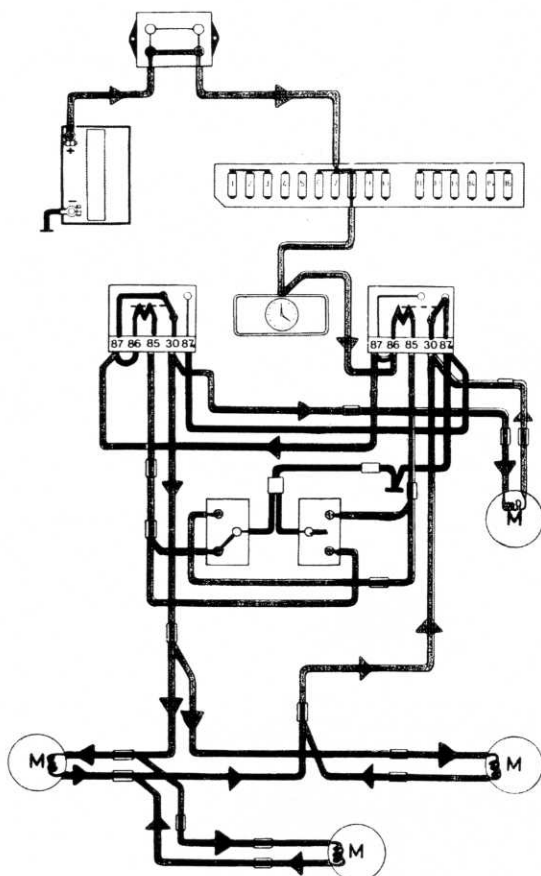
Fuse No. 8:

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

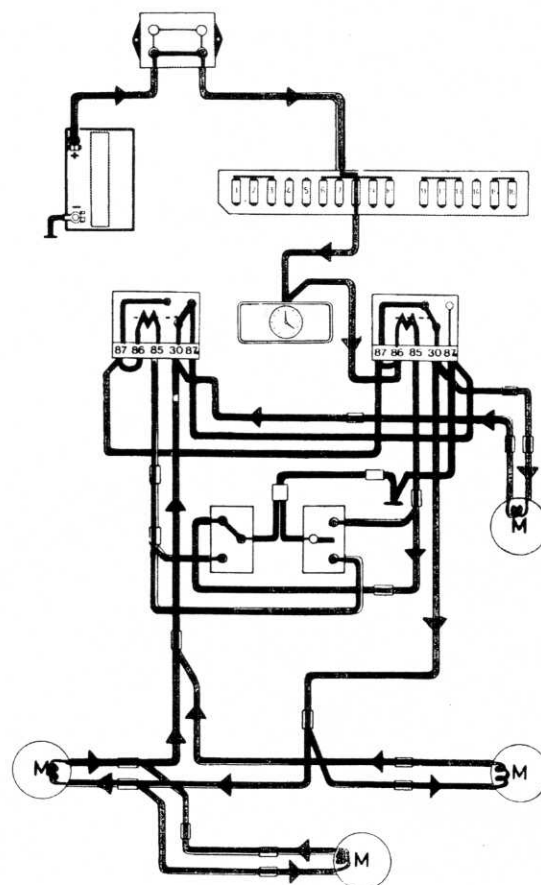
Legend:

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

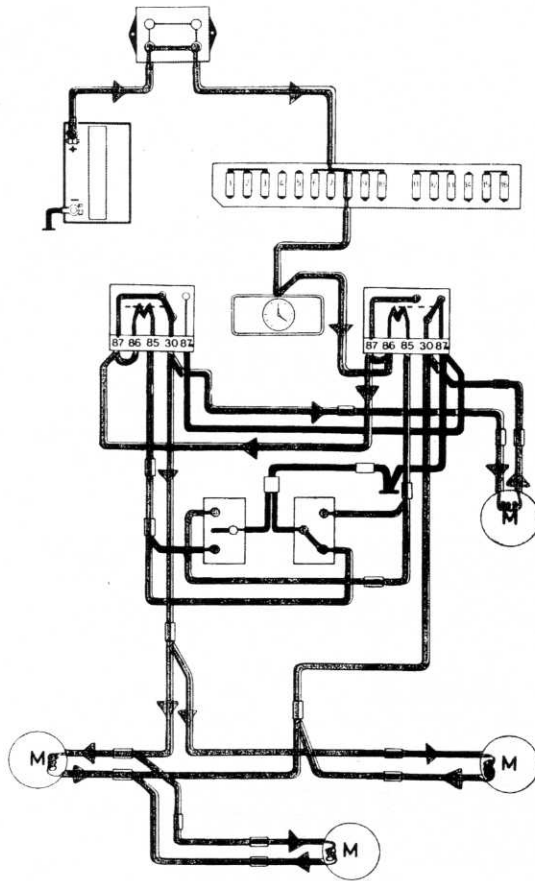




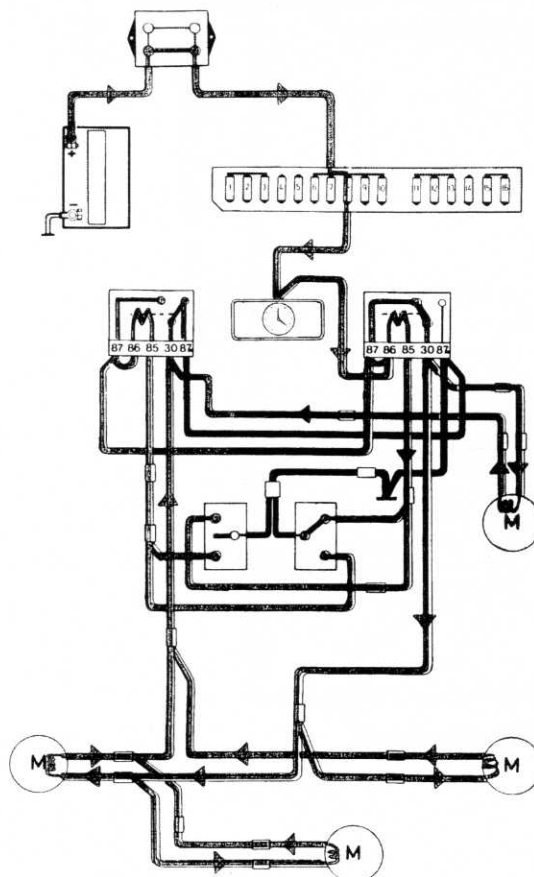
Using lock button to unlock



Using lock button to lock



Using key to unlock



Using key to lock

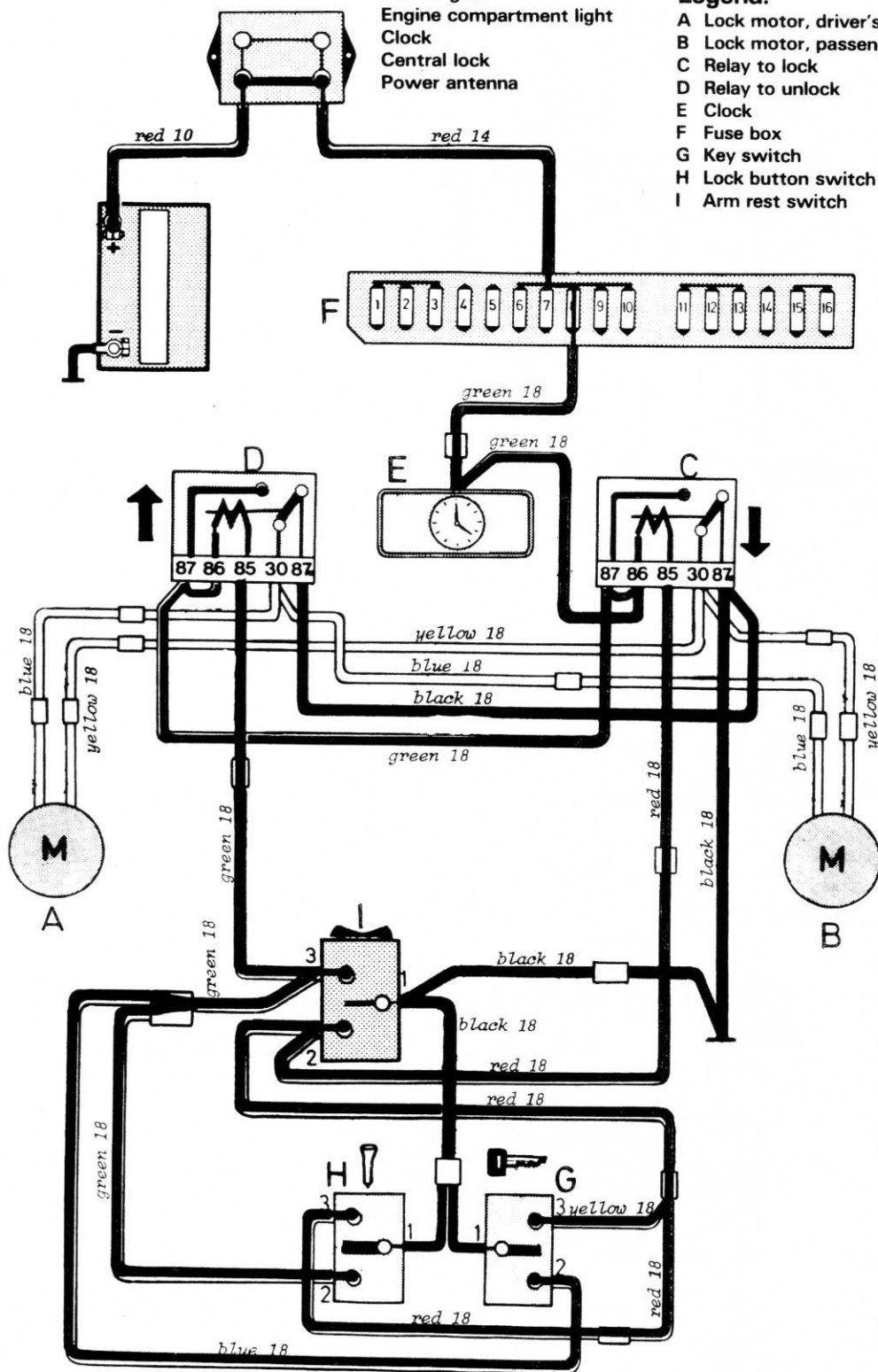
Central lock, Coupe

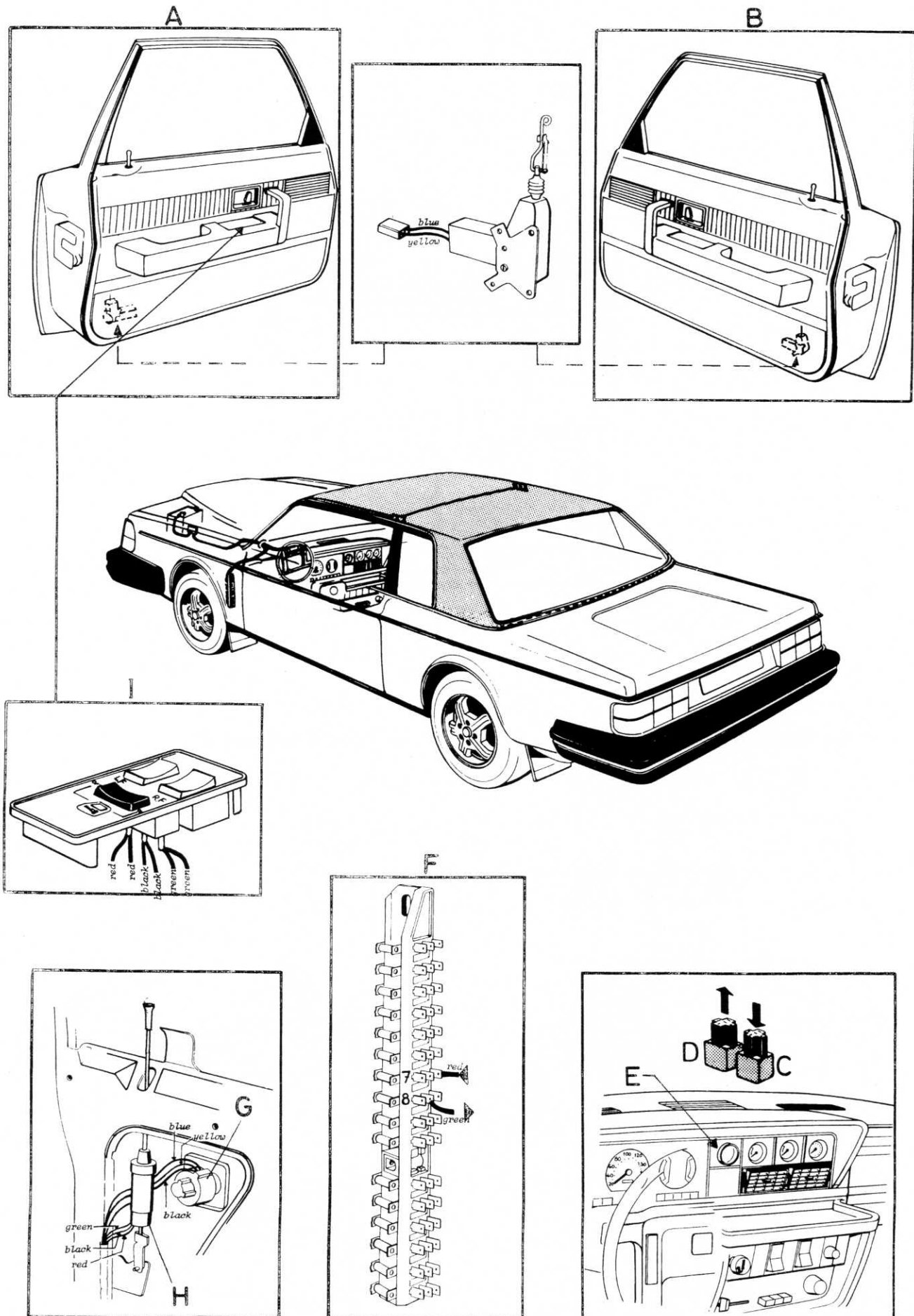
Fuse No. 8:

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

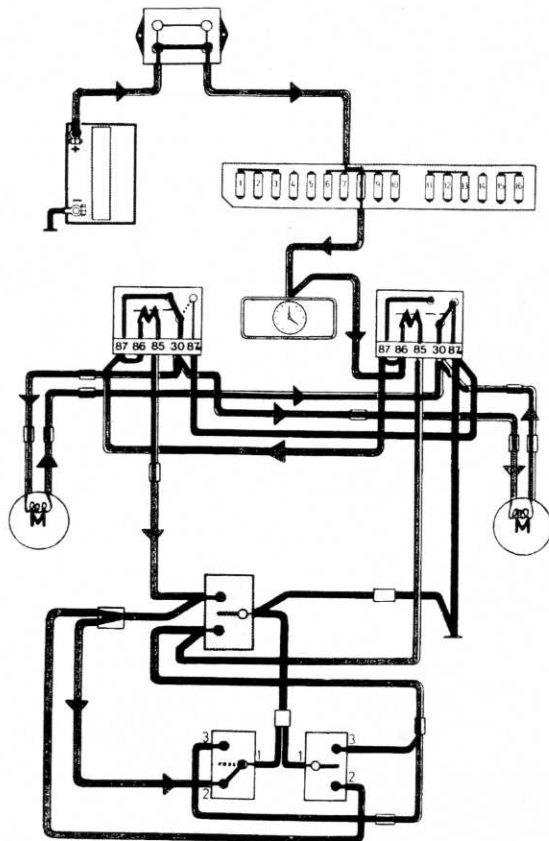
Legend:

- 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

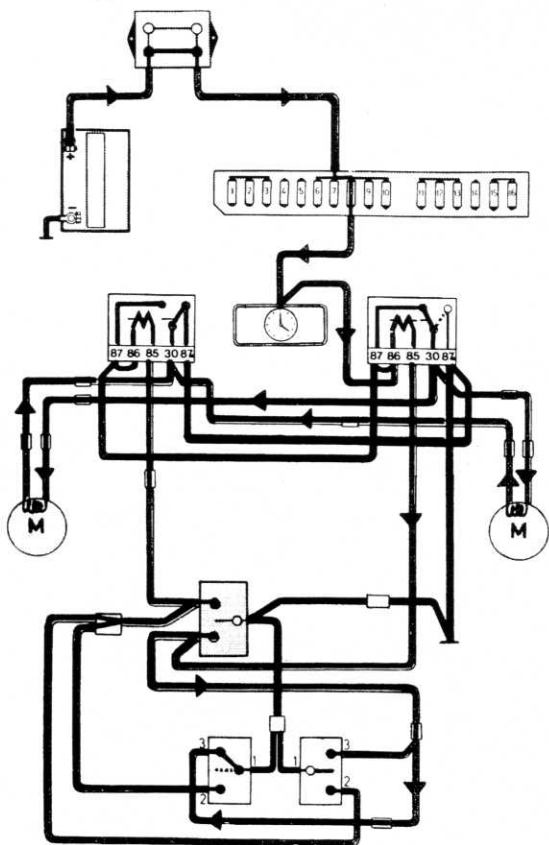




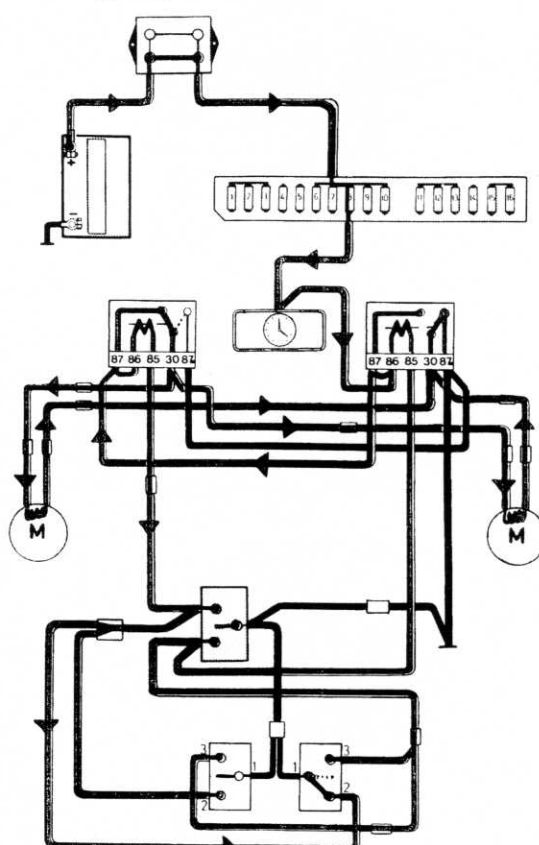
Using lock button to unlock



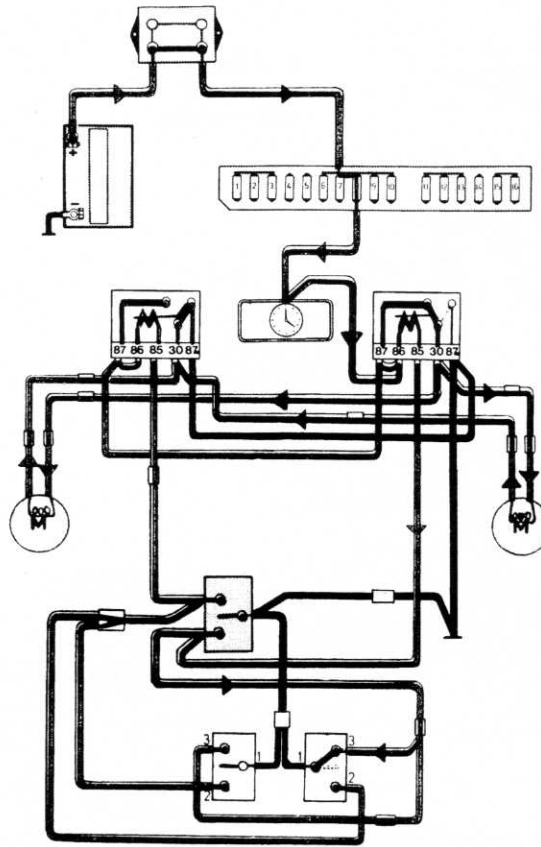
Using lock button to lock



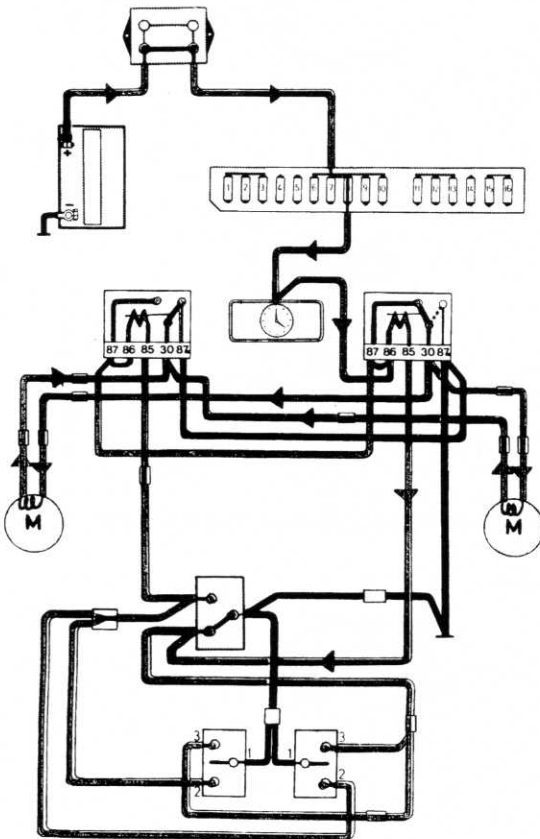
Using key to unlock



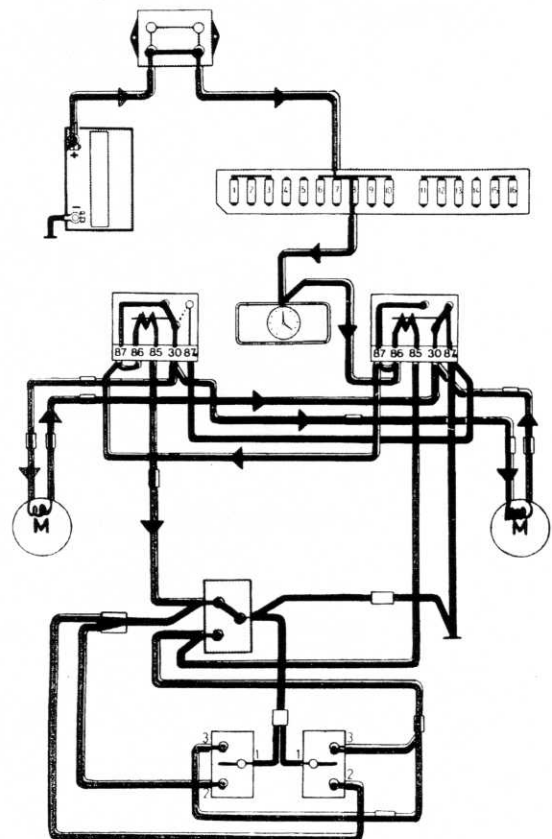
Using key to lock



Using arm rest switch to lock



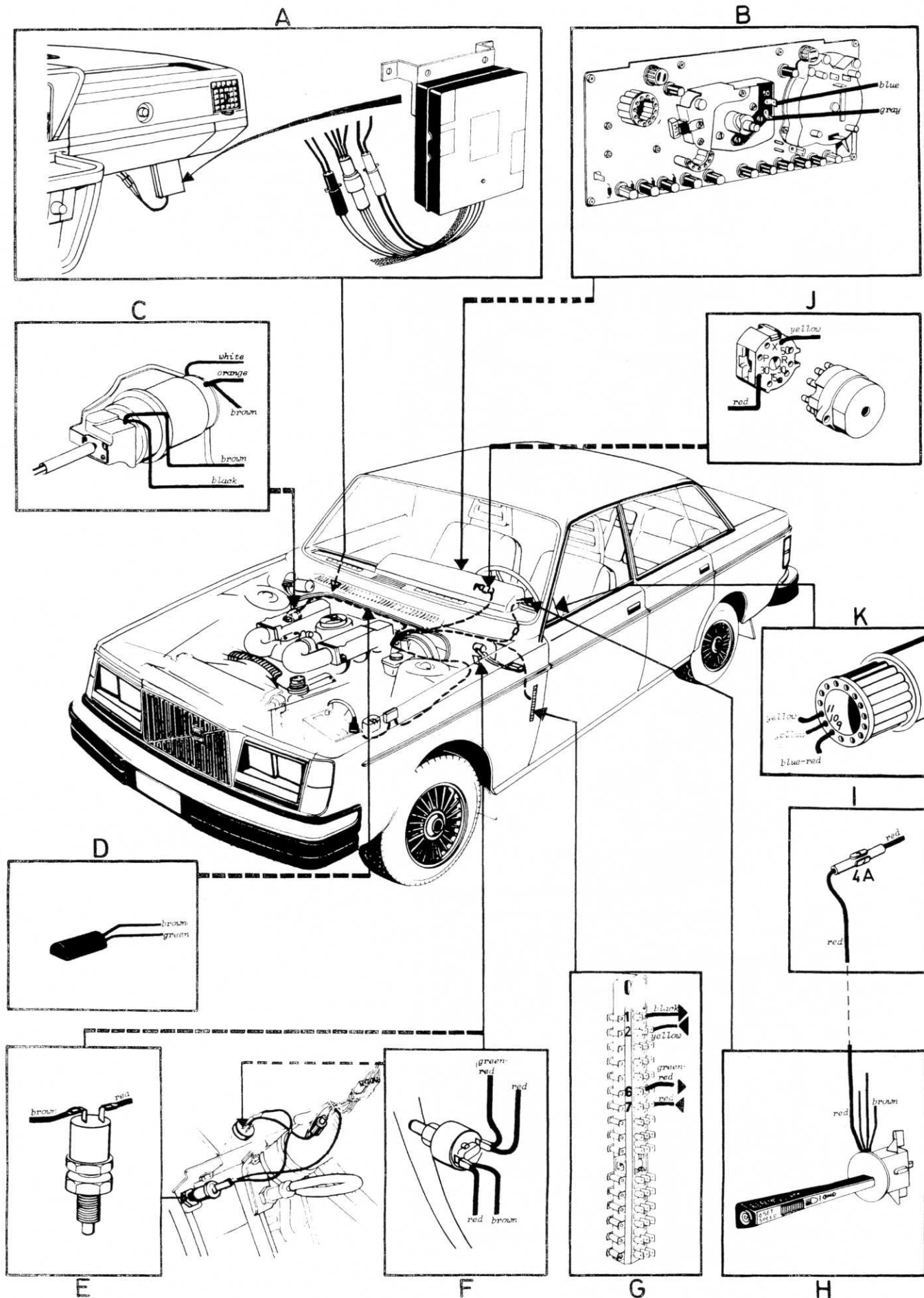
Using arm rest switch to unlock

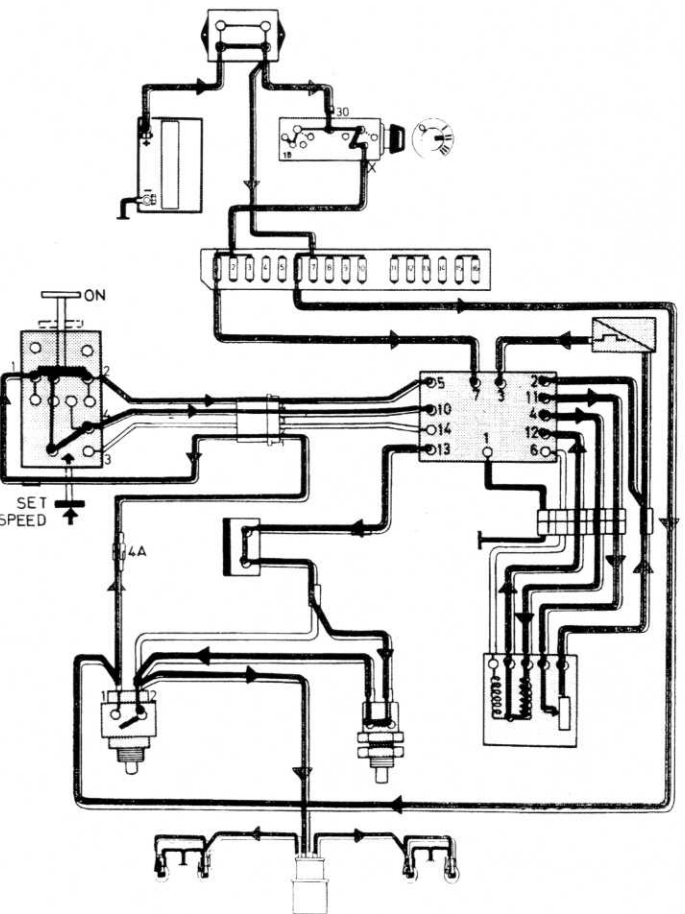


Brake light
Cruise control

- 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



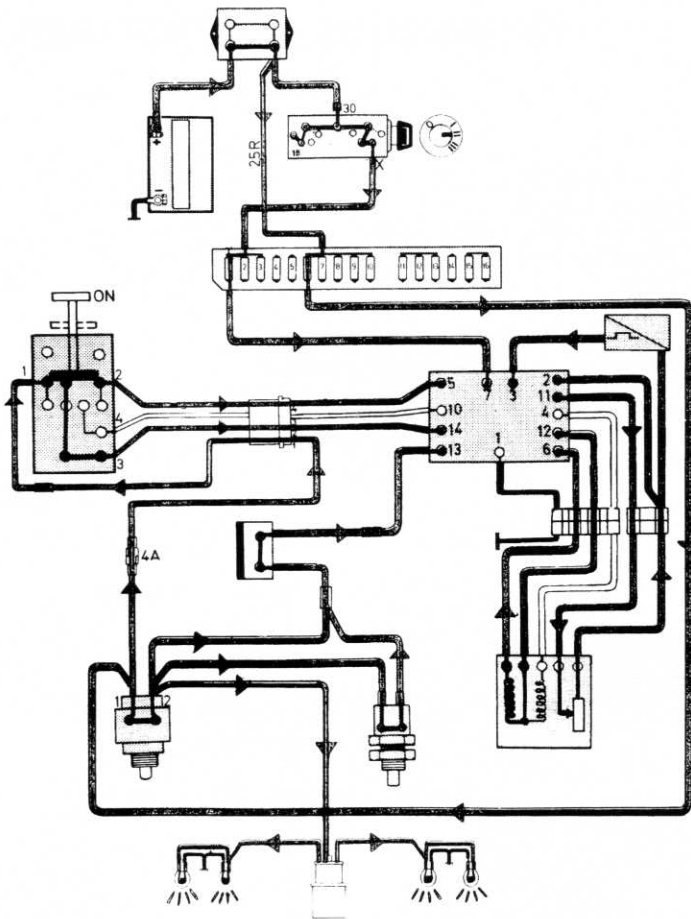




Switch position ON and SET
SPEED button depressed.

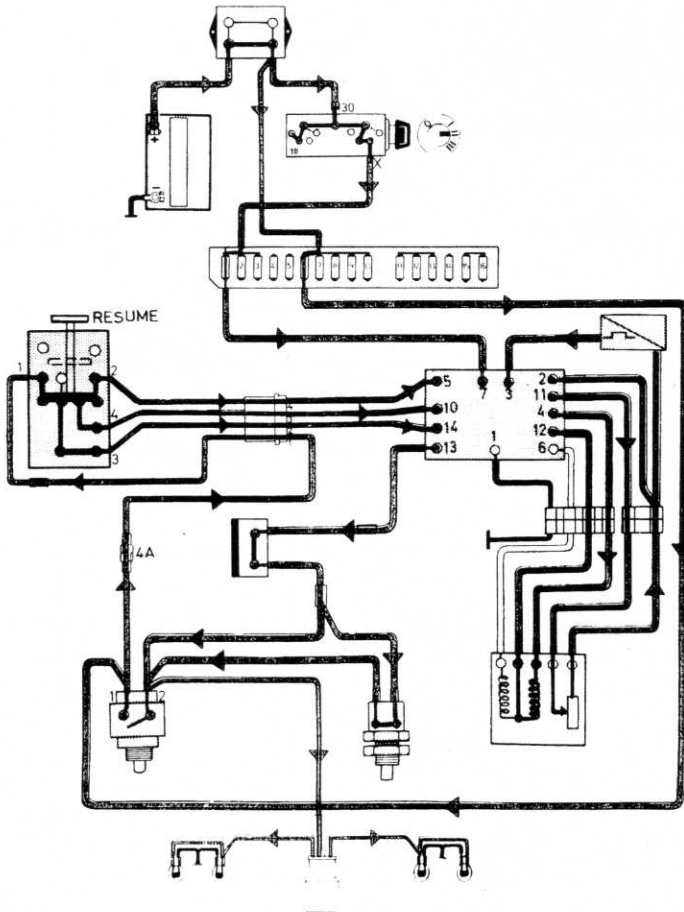
ON

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



Cruise control disengaged

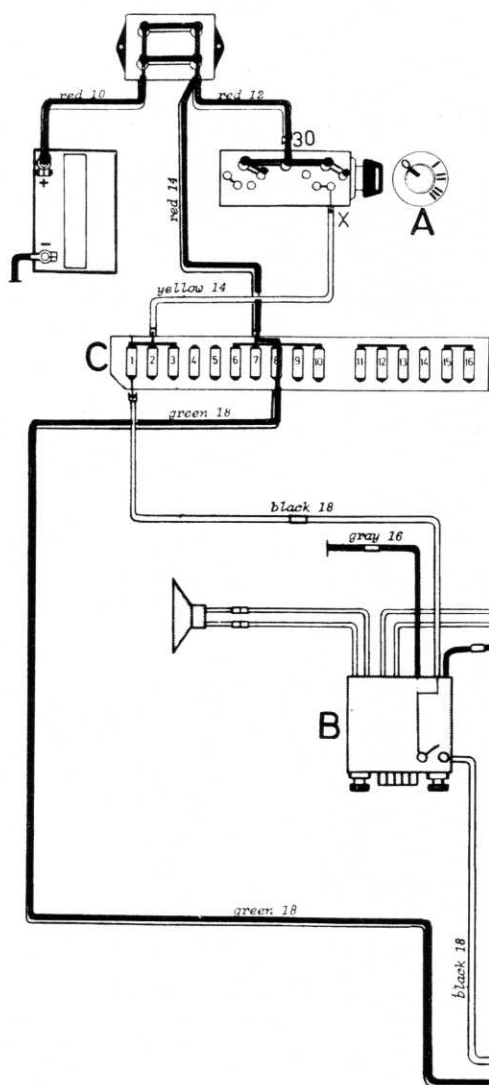
If brake pedal switch is engaged, self-holding relay in throttle actuator will be disengaged (same voltage on both ends of coil).
In case of heavy braking, also mercury retard switch will disengage.



Resume

Switch to Resume engages memory and previous setting.

Radio and power antenna



Fuse No. 1:

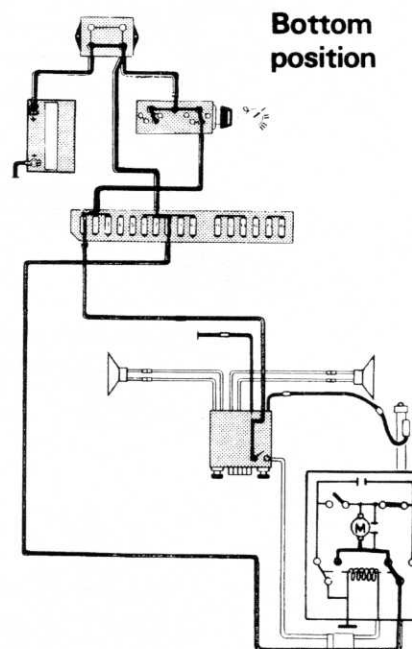
Cigarette lighter
Tail gate window wiper/washer
Electrically operated side mirrors
Radio

Fuse No. 8

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

Legend:

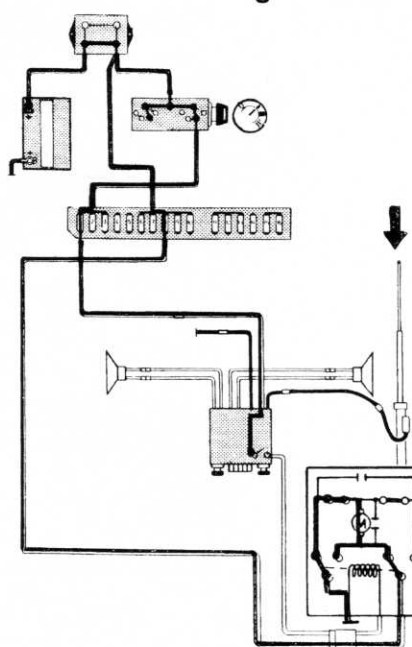
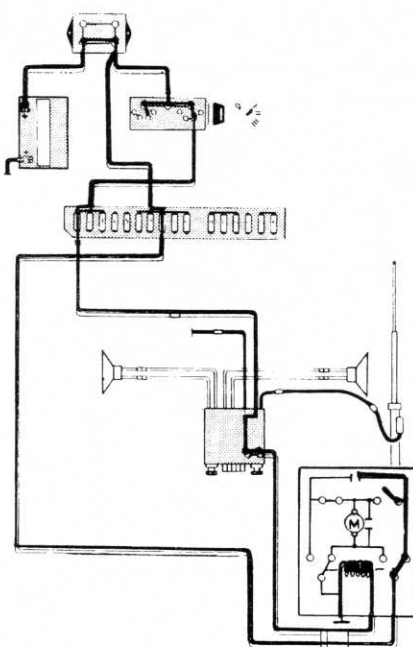
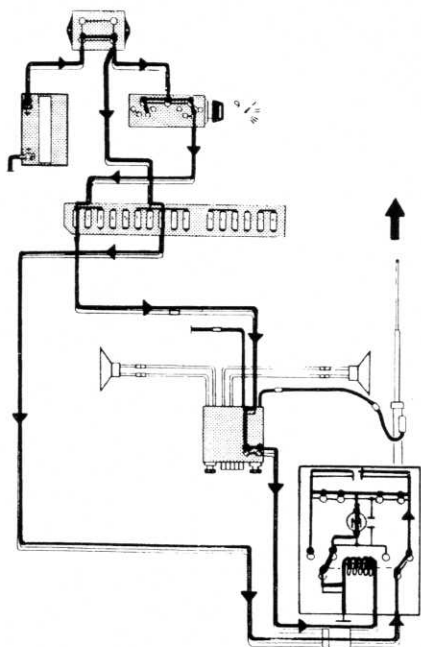
A Ignition switch
B Radio
C Fuse box
D Motor, power antenna

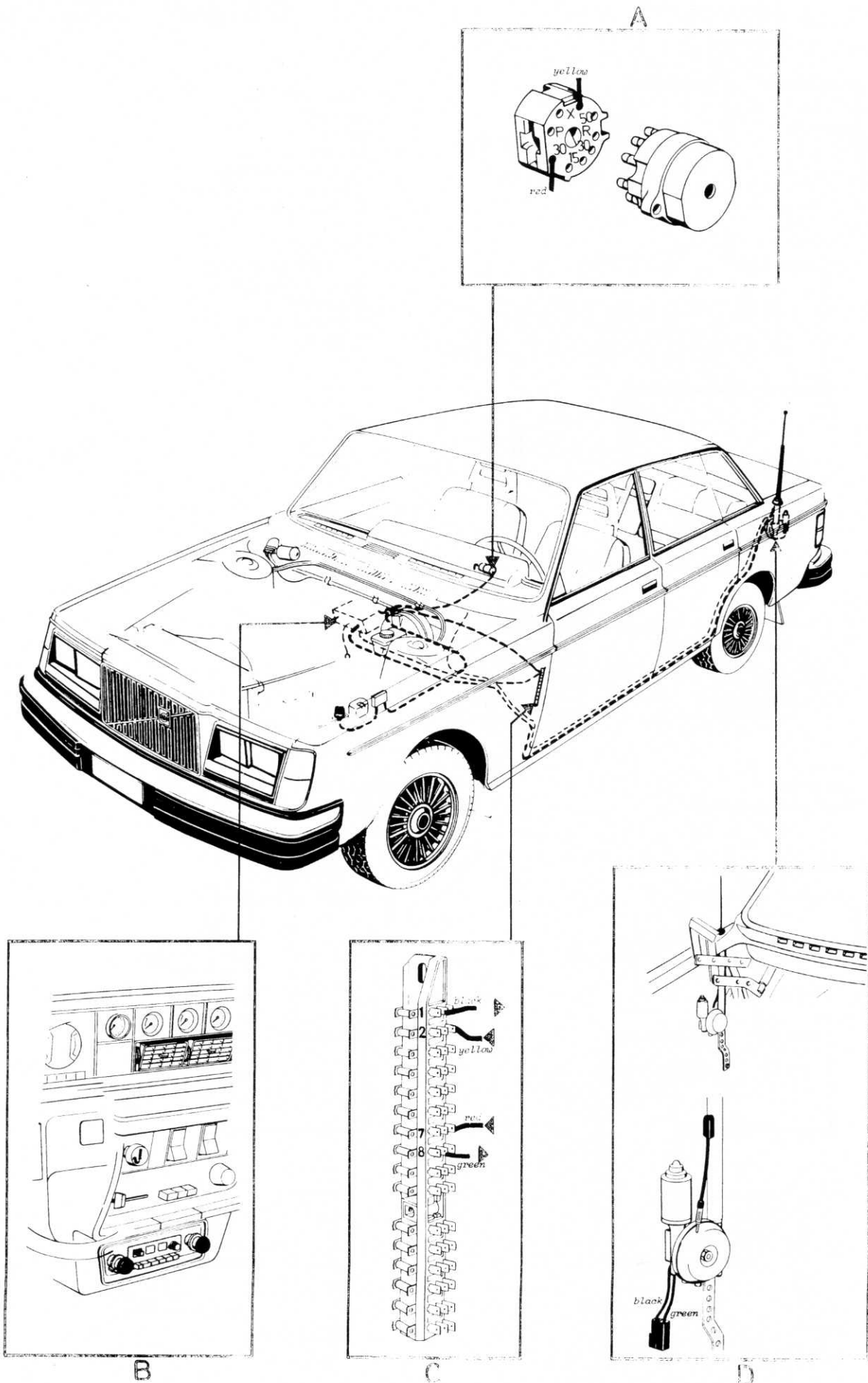


Power antenna being raised

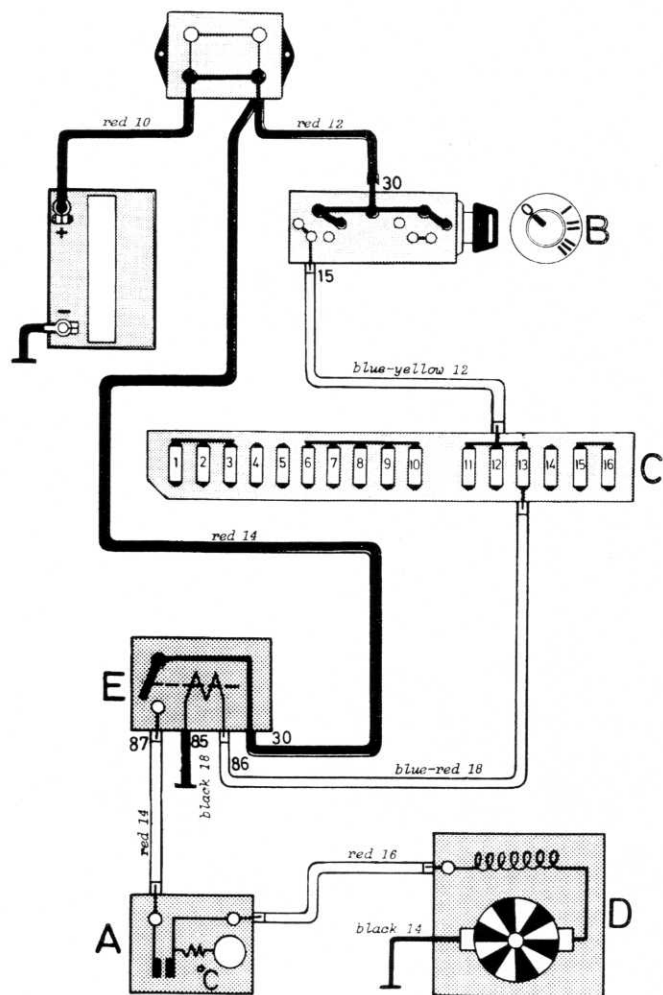
Top position

Power antenna being lowered





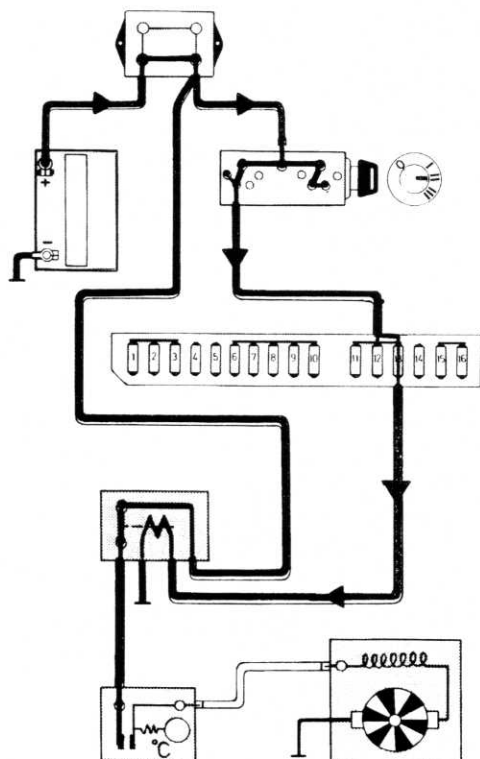
Electric cooling fan



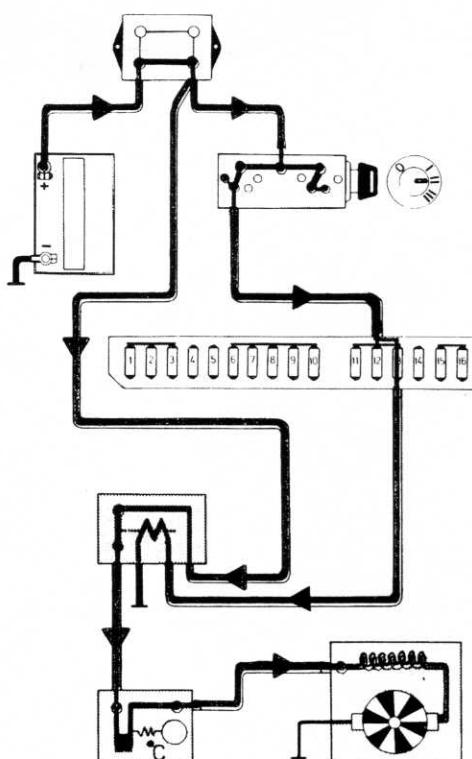
Fuse No. 13:
Instruments
Turn signals
Seat belt warning
Relay, fuel injection
Solenoid valve (carburetor)
Electric cooling fan

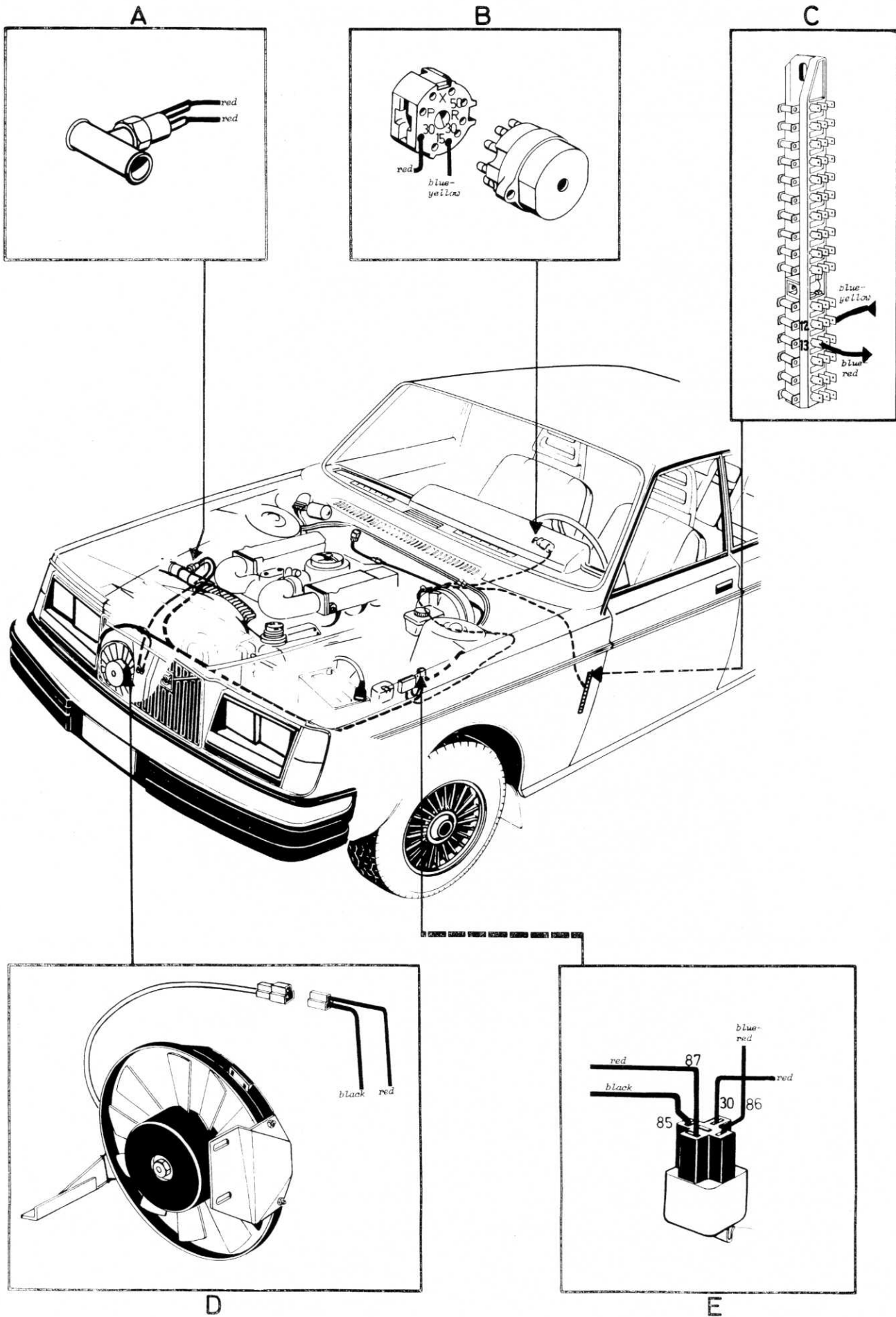
Legend:
A Thermostat switch
B Ignition switch
C Fuse box
D Electric cooling fan
E Relay

Ignition ON.
Thermostat switch OFF.

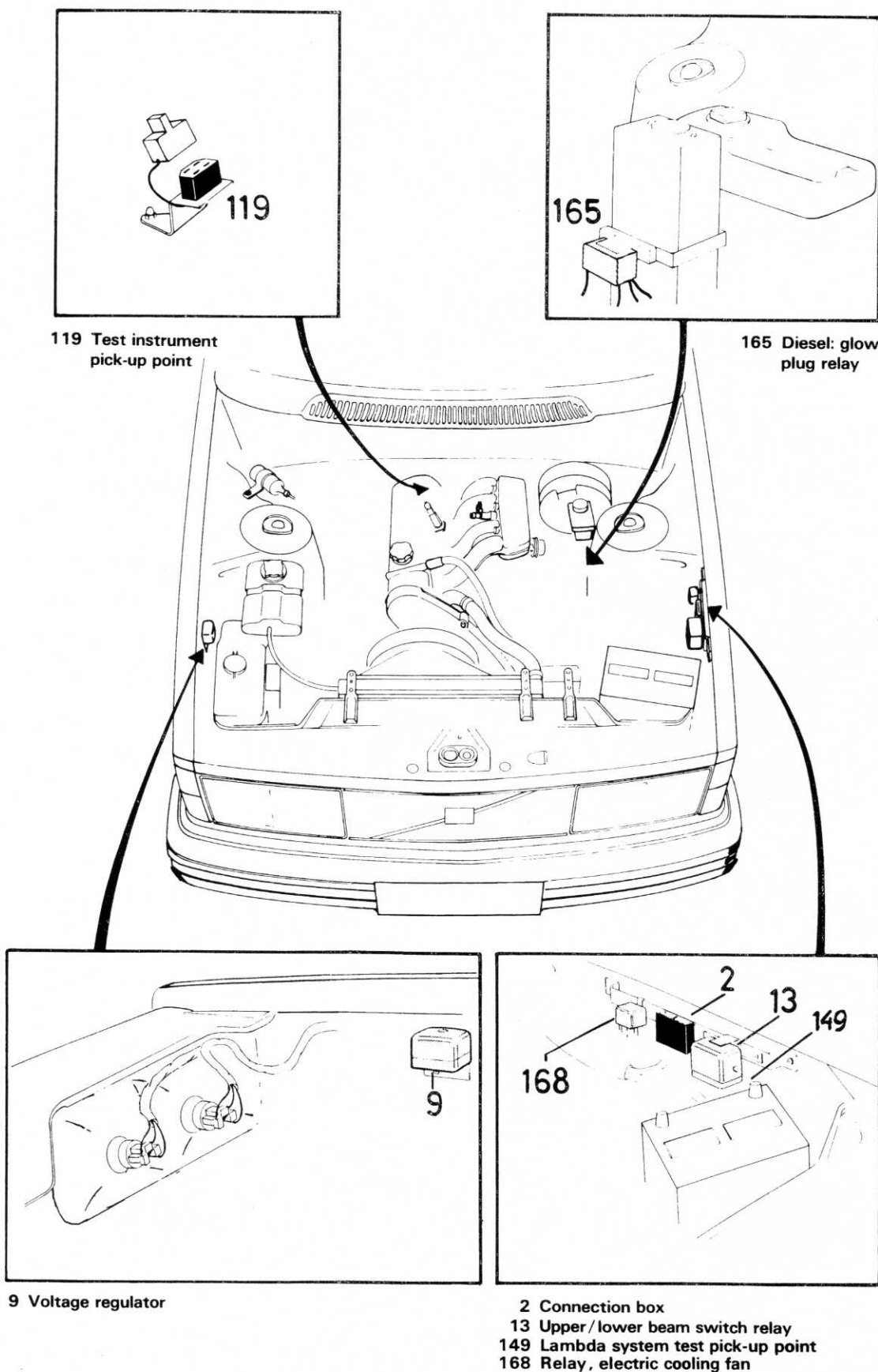


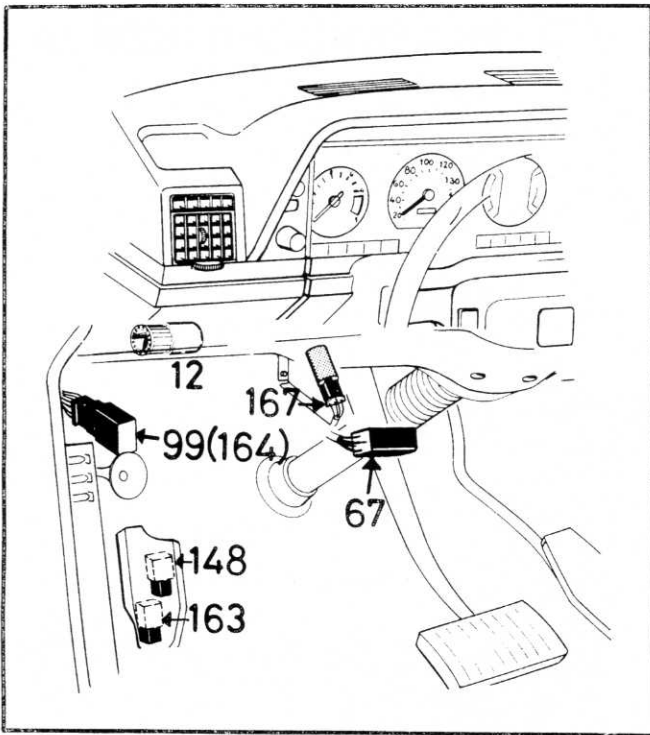
Ignition ON.
Thermostat switch ON.



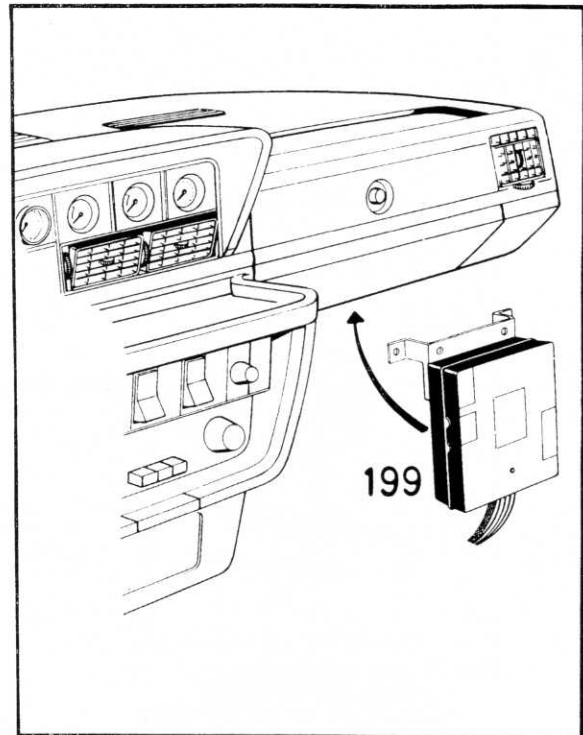


Locations for relays, buzzers, control units, etc

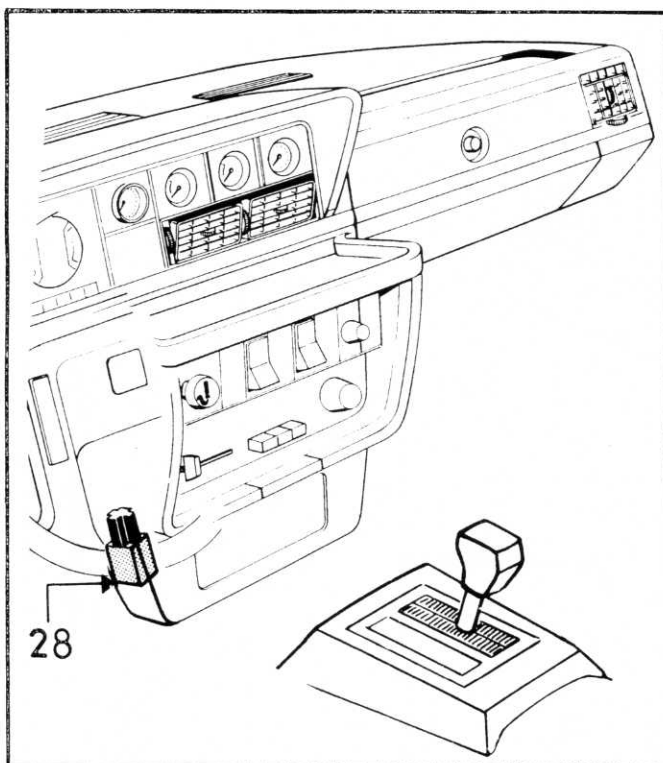




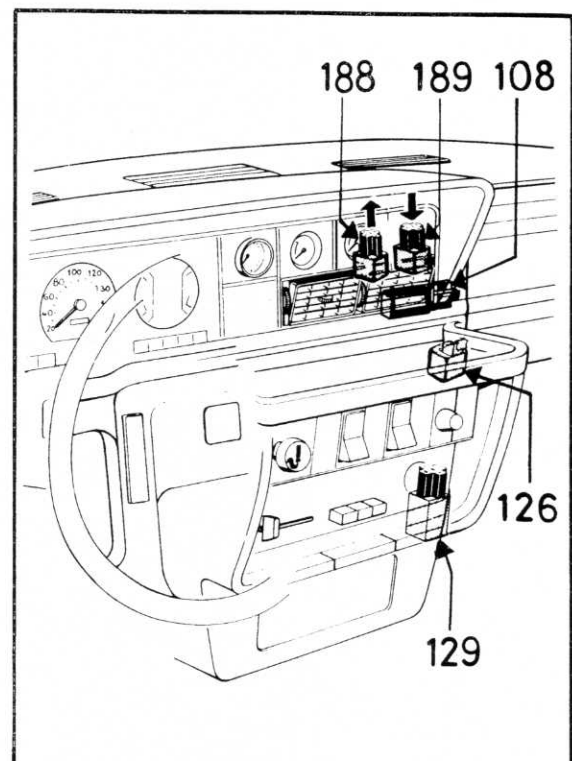
- 12 Bulb failure sensor
- 67 Key and light buzzer
- 99 Relay, fuel pump
- 148 Interval relay, window wipers
- 163 Interval relay, tail gate window wiper
- 164 Diesel, control unit
- 167 Relay, delayed interior light



199 Governor, cruise control

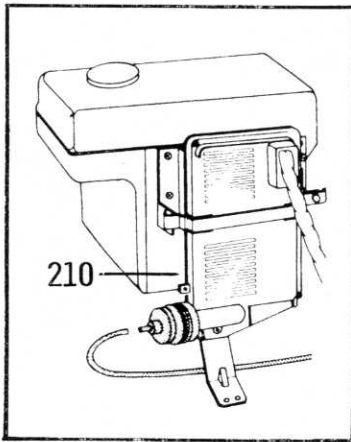


28 Flasher, turn signals

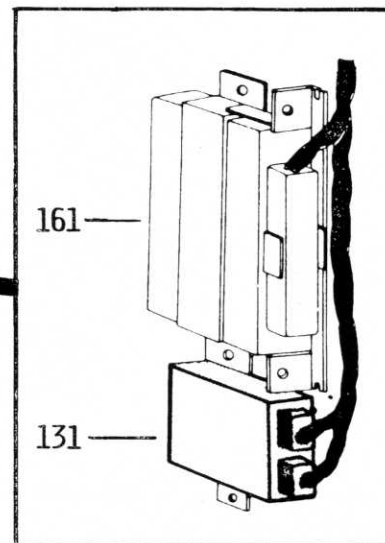
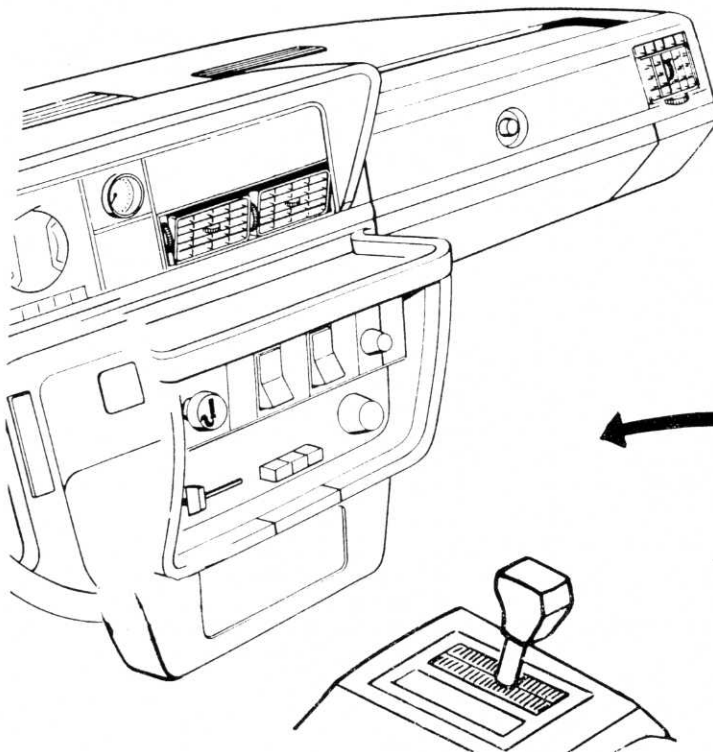
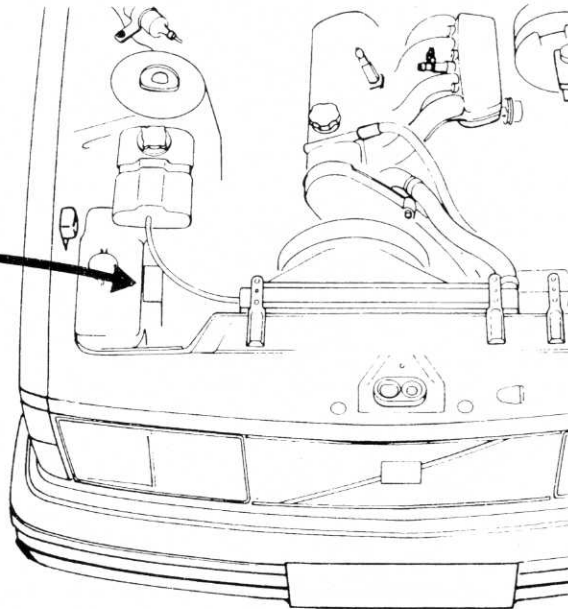


- 108 Relay, overdrive
- 126 Relay, window lifts
- 129 Relay, air conditioning
- 188 Central lock, unlock relay
- 189 Central lock, lock relay

Electronic control units

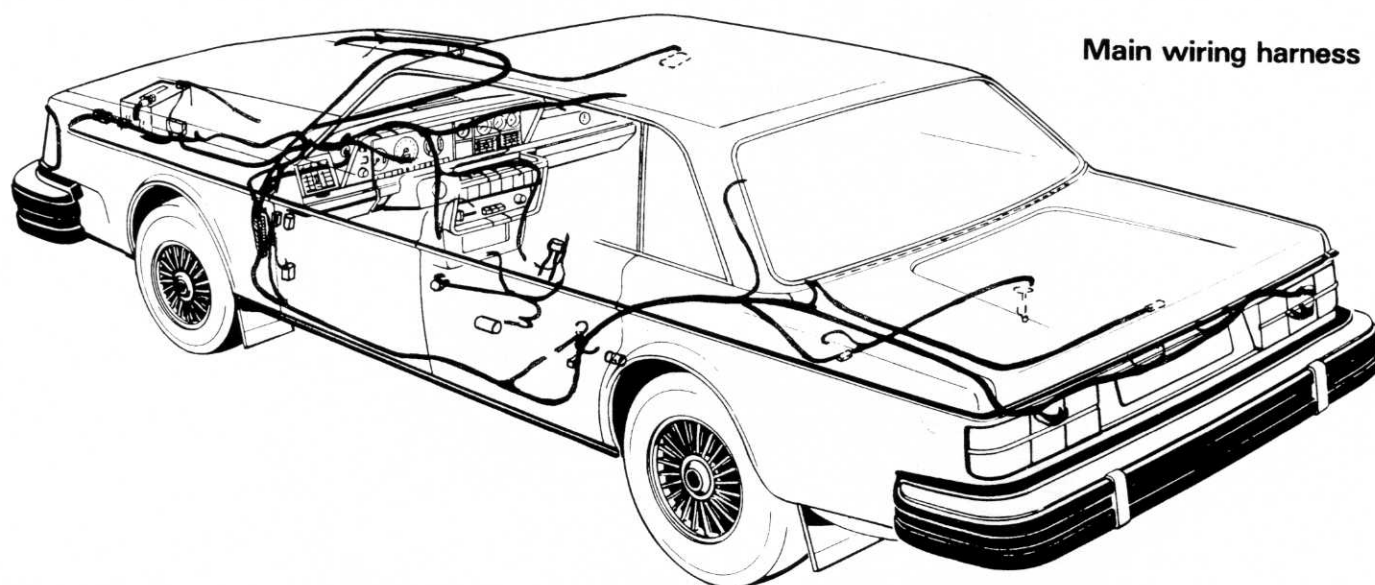


210 Electronic control unit
for Computer Controlled
Ignition System (B21F-MPG)

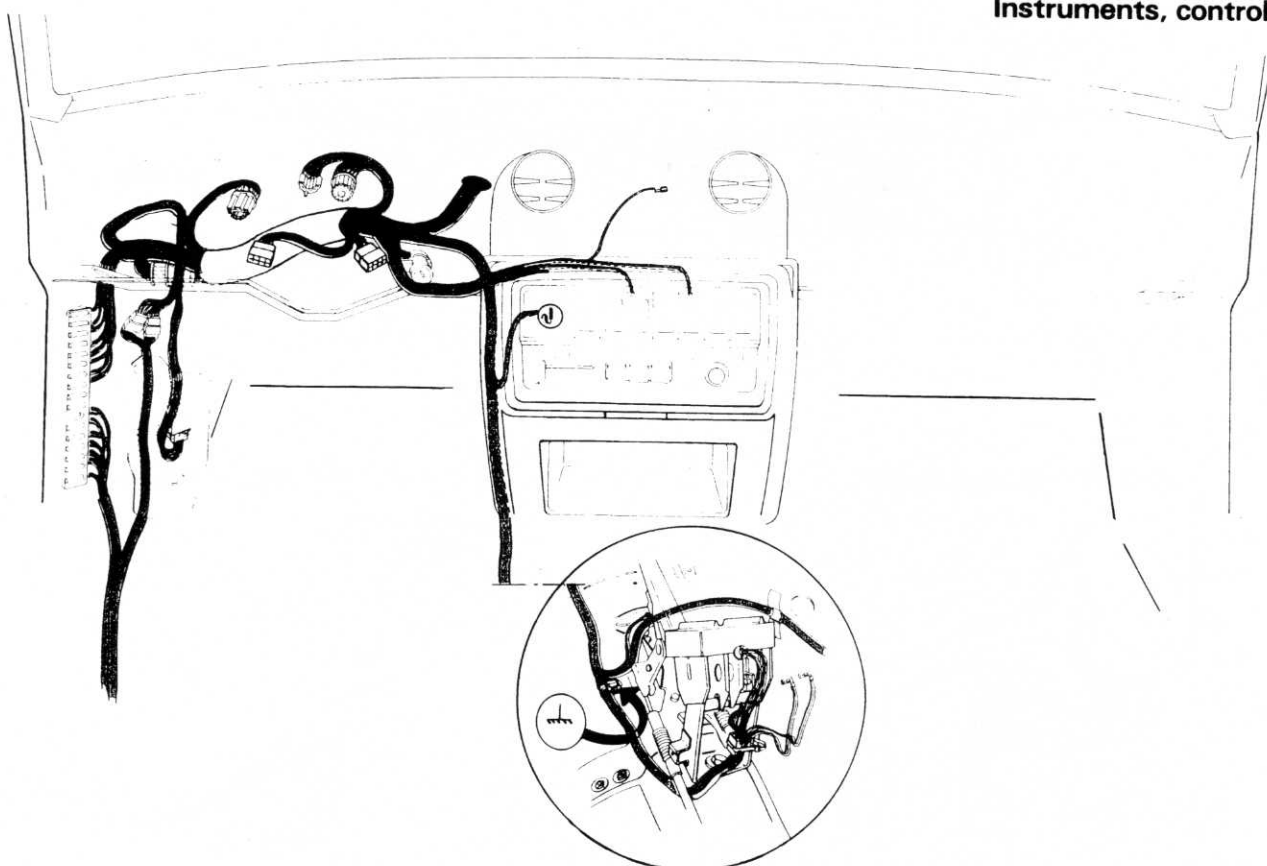


131 Electronic control unit
for Lambda-sond system
161 Electronic control unit
for Constant Idle Speed
(CIS) system

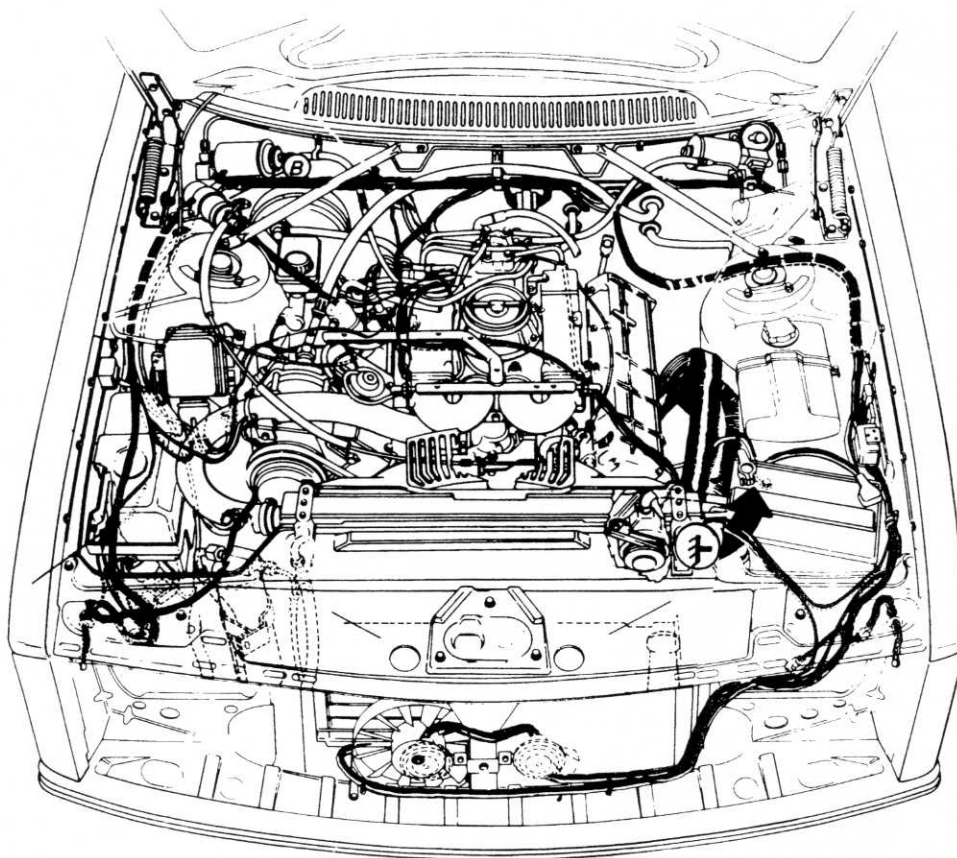
Wiring harnesses



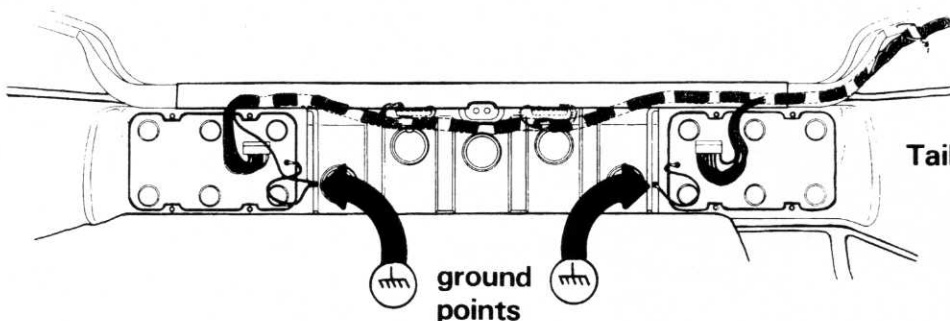
Main wiring harness



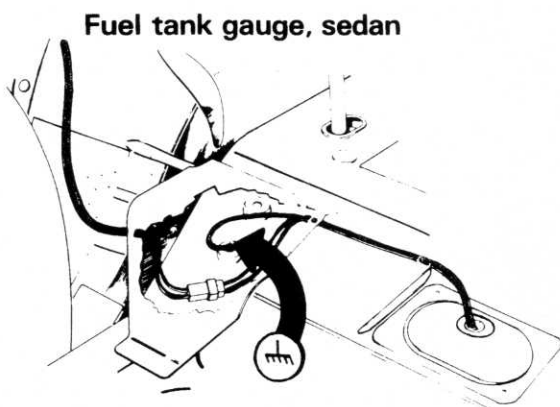
Instruments, controls



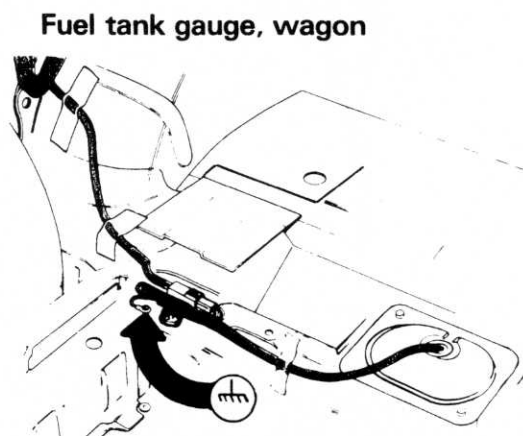
Engine compartment



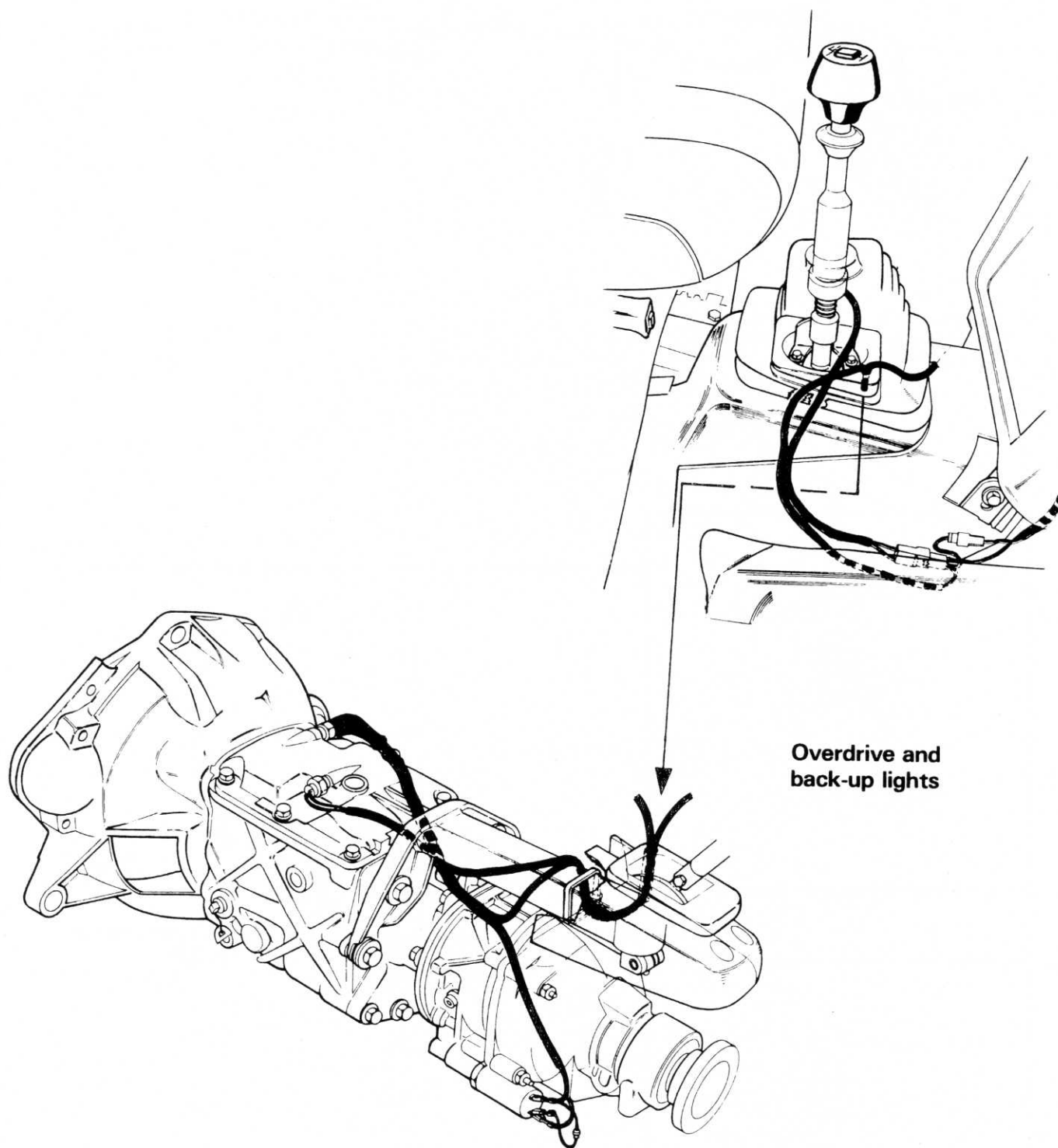
Tail lights

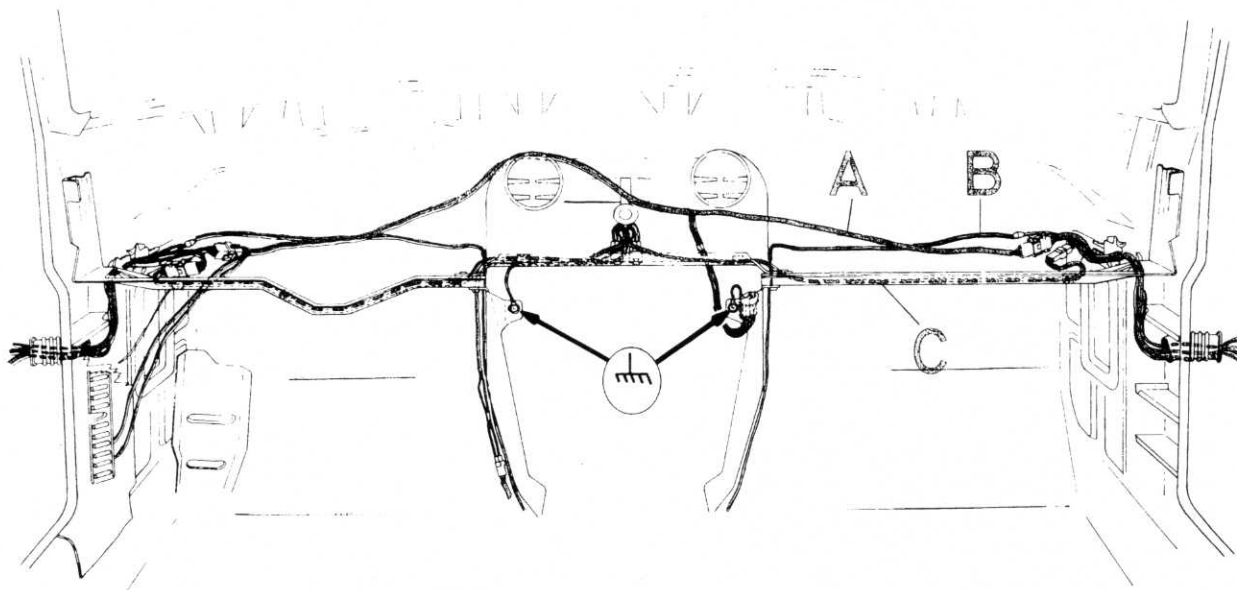


Fuel tank gauge, sedan

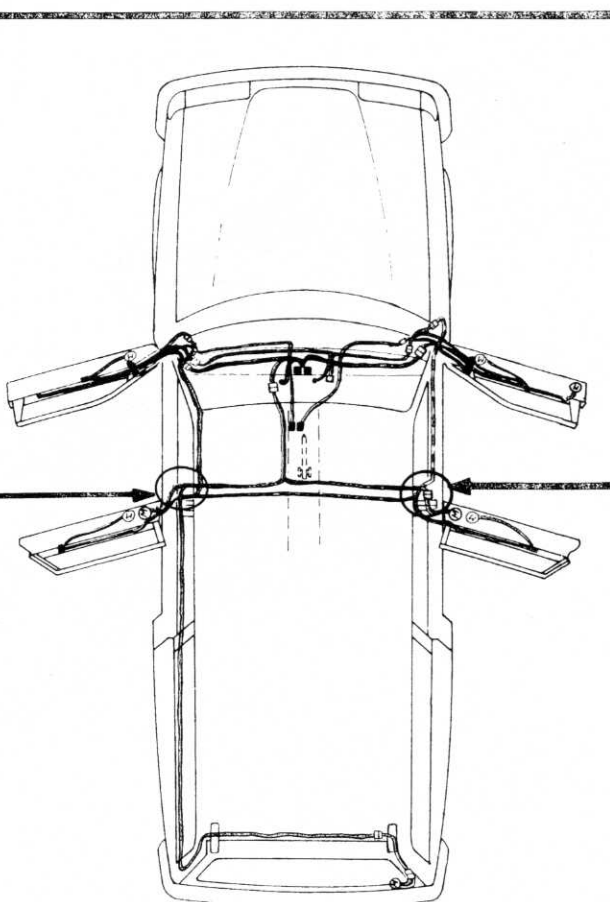
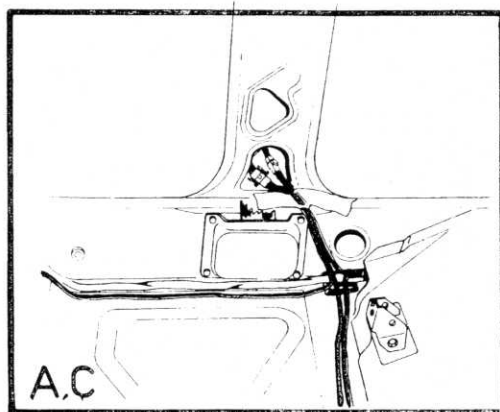
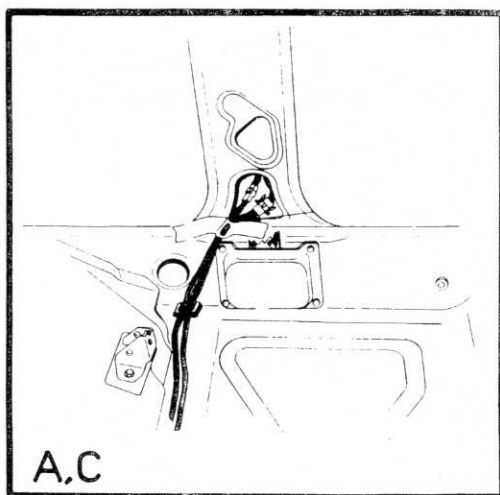


Fuel tank gauge, wagon





- 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.

Contents

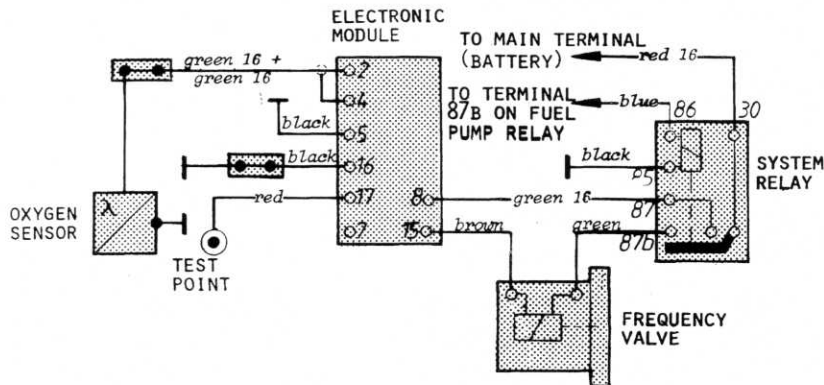
	<i>Page</i>
Lambda-sond System: – B21F, B21F-MPG	156
B21F-Turbo	
B28F	
Overdrive	157
Constant Idle Speed System (CIS System)	
Spark Control Ignition System, B21F-MPG	
Diesel, glow plug circuits	
Instrument cluster	158
Instrument connector	
Additional instruments, B21F-Turbo	159
Additional instruments, B23E	
Control panel lights, lights on accessories	
Interior light	160
Rear interior light, wagon	
Delayed interior light	
Window lifts: – 2-door	161
– 4-door	
Central lock: – 2-door	162
– 4-door	
Tail gate window wiper, wagon	163
Back-up light, automatic transmission	
Heater blower	164
Air conditioning	
Electric cooling fan	
Cruise control	165
Seat belt reminder system	
Passenger seat heater, rear cigarette lighter	
Radio/antenna	166
Electric trunk lid opener	
Electrically operated side mirrors	
Master wiring diagram	Fold-out sheet.

Alphabetical index

Zone locations refer to grid system on fold-out sheet.

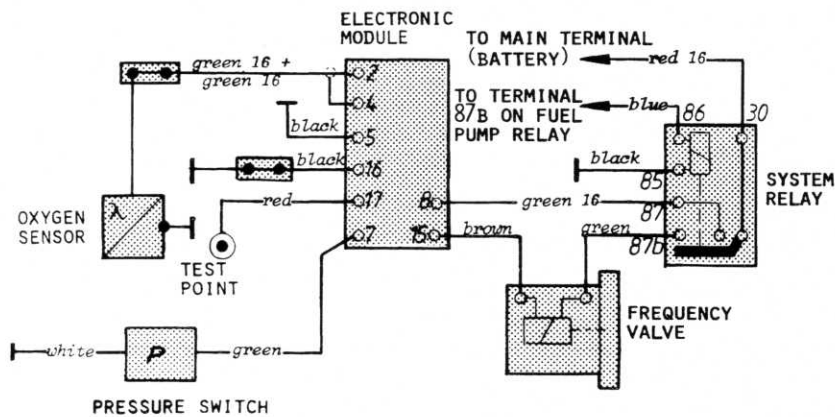
Name	Zone location	Page	Name	Zone location	Page
AC system		164	Ignition coil	B3	
Alternator	B1		Ignition switch	D4	
Ash tray light		159	Ignition electronic module ...	B4	
Automatic transmission		163	Ignition system, B21F-MPG		157
Auxiliary air valve	A3		Impulse relay	A1	
			Instruments:		
Back-up lights	C9, G9		– B21F-Turbo		159
– Wagon	D10, G10		– B23E		159
Ballast resistor	B3		Indicator lights		158
Battery	B1		Instrument connectors		158
Blower		164	Instrument lights		158
Brake failure switch		158	Interior light		160
Brake lights	C9, G9		Interval relay, wiper	B7	
Brake light switch	G5		– Tail gate window wiper		163
Bulb failure sensor	G4				
Buzzer		165	Lambda system		156
			License plate light	E9	
Carburetor solenoid (Canada) .	F3		– Wagon	E10	
Central lock		162	Light switch	F2	
Cigarette lighter	C4				
Clock		158	Mirrors		166
Cold start injector	A2				
Connectors, instrument		158	Overdrive solenoid, switch		157
Constant Idle Speed System		157	Oxygen sensor system		156
Control panel lights		159			
Control pressure regulator ...	A2		Parking lights, front	D1, G1	
Cruise control		165			
			Radio		166
Delayed interior light		160	Rear demist	D7	
Distributor	A4		Relay, upper/lower beam	G3	
Door switches	E3		Remote starter pick-up	C4	
			Rheostat, instr, lights		159
Electric cooling fan		164			
El. heated rear window	D7		Seat belt control light:		
El. operated door mirrors		166	– Front	C7	
Engine compartment light		159	– Rear	B6	
			Seat belt lock light	B8	
Flasher unit	E7		Seat belt reminder		165
Fuel gauge		158	Seat heater	D7	
Fuel pump	A2		Senders, for gauges		158
Fuel pump relay	B2		Sensor, bulb failure	G4	
Fuse box	E4		Side mirrors		166
			Solenoid (carburetor, diesel) .	F3	
Gear shift light		159	Spark plugs	A4	
Glove box light	G7		Starter motor	A1	
Heater system		164			
Horns	D2				

Name	Zone location	Page	Name	Zone location	Page
Switches:			Tachometer		158
- Back-up light			Tail lights	C9, G9	
● Manual transmission	F7		- Wagon	D10, G10	
● Automatic transmission		163	Thermal time switch	A2	
- Blower		164	Trunk lid opener		166
- Brake light	G5		Trunk light	E8	
- Brake failure		158	Turn signal, front	D1, G1	
- Door	E3		- Rear	C9, G9	
- Hazard warning	E7		- Rear, wagon	D10, G10	
- Ignition	D4				
- Interior lights		160	Voltage regulator	B1	
- Overdrive		157	Voltage stabilizer		158
- Pressure (Turbo)	C2				
- Rear demist	D8		Washer, tail gate window		163
- Seat belt	A6, A7		- Windshield	B9	
- Seat heater	E7		- Window lifts		161
- Tail gate wiper/washer		157	Wiper motor:		
- Trunk lid opener		166	- Tail gate window		163
- Turn signal	F7		- Windshield	B9	
- Windshield wiper/washer ..	B8				



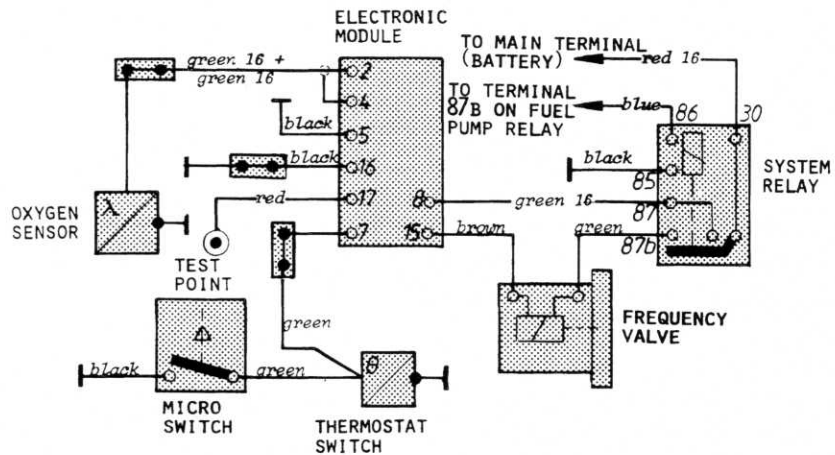
**Lambda-sond System
B21F-MPG**

130576



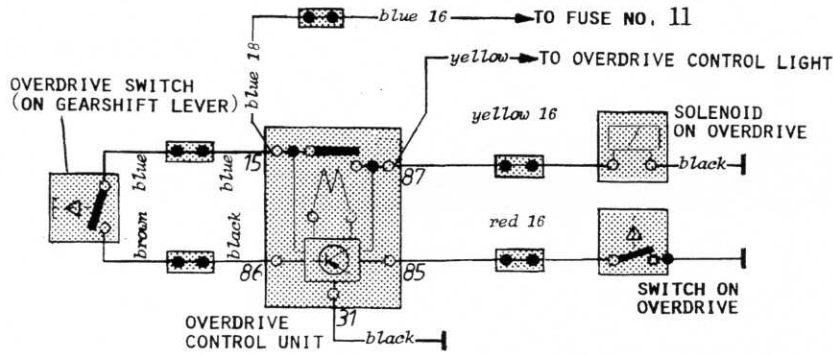
**Lambda-sond System
B21F-Turbo**

130577



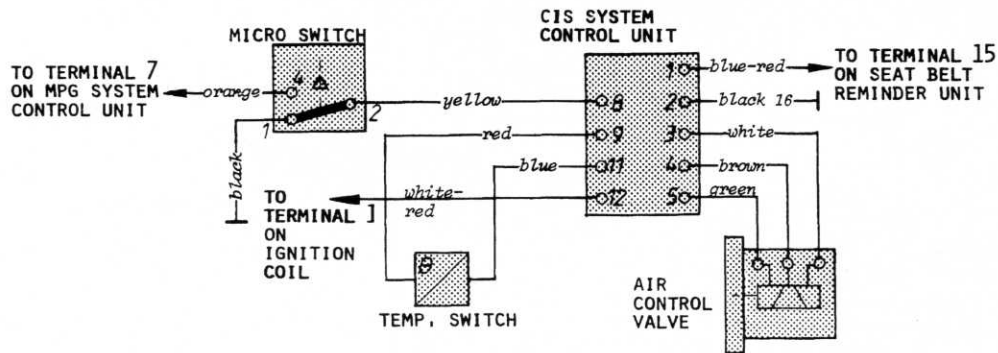
**Lambda-sond System
B21F
B28F**

130578



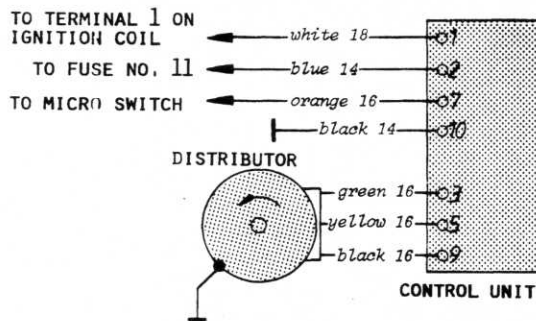
Overdrive

130579



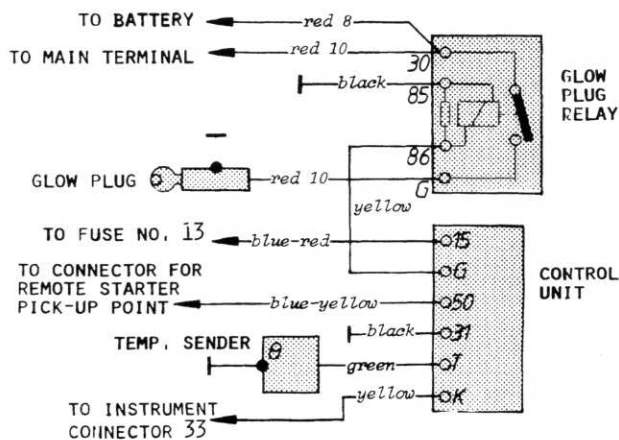
**Constant Idle
Speed System
(CIS System)**

130580



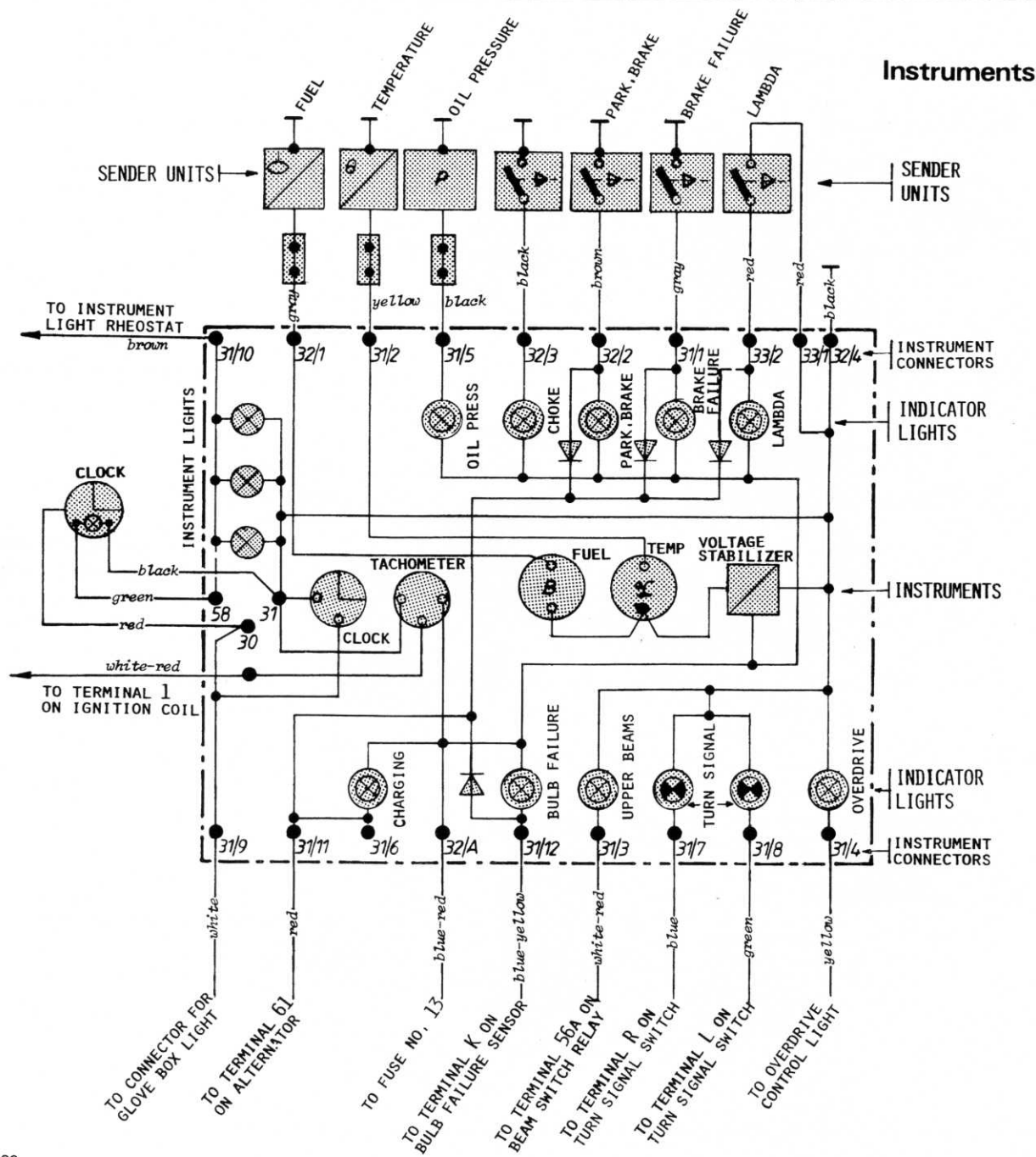
**Spark Control Ignition System
B21F-MPG**

130581

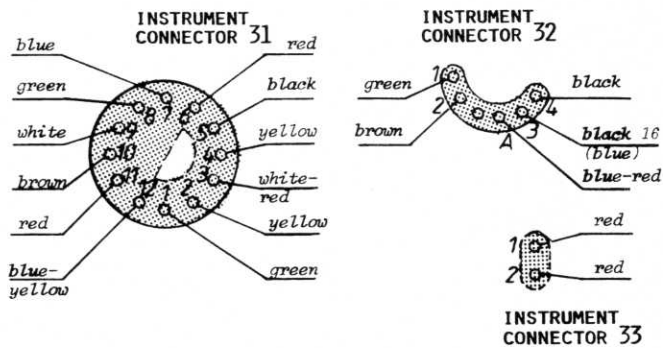


**Diesel,
glow plug circuits**

130582



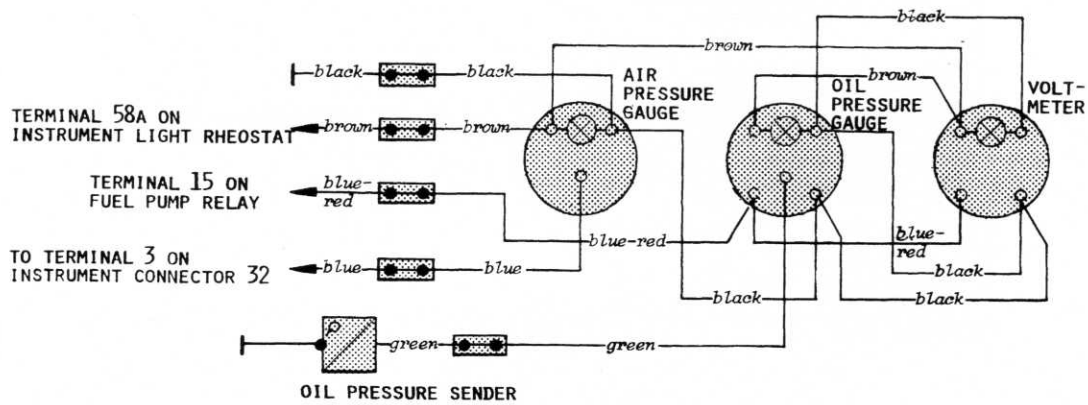
130583



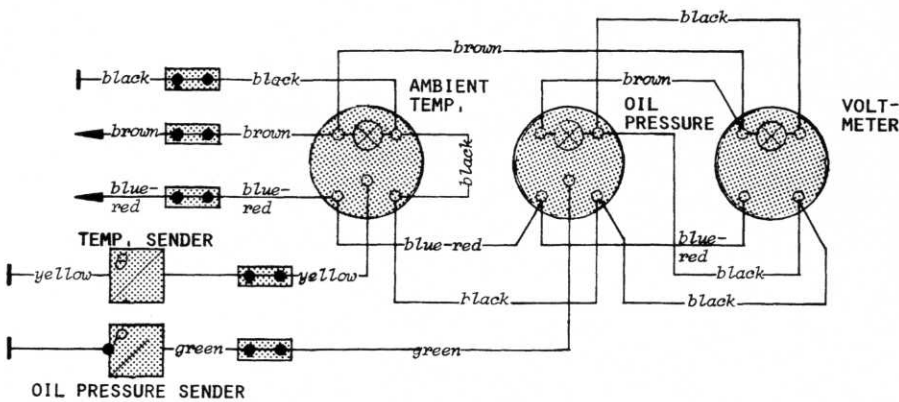
Instrument connector

130584

Additional instruments, B21F-Turbo

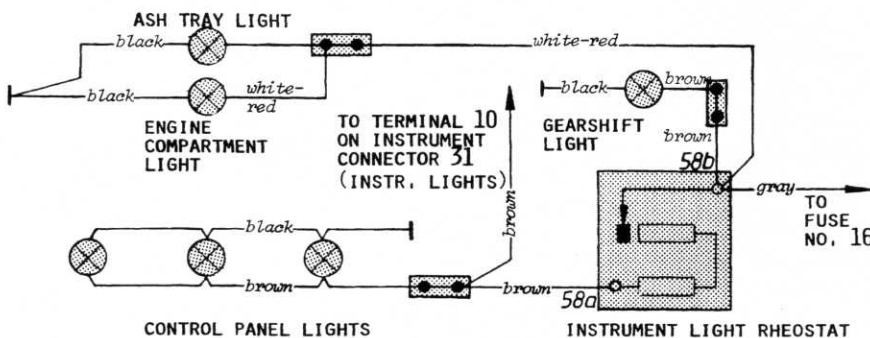


130585



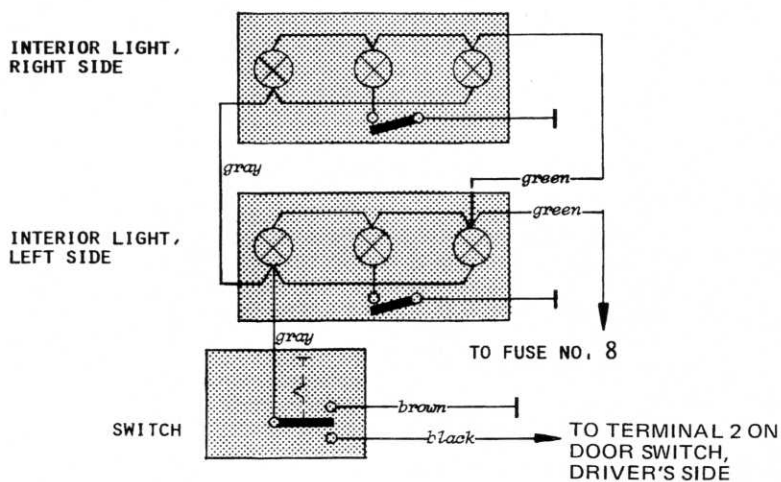
Additional instruments, B23E

130586



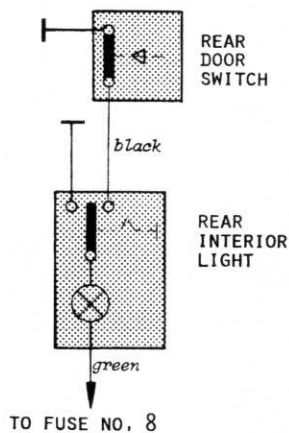
Control panel lights, lights on accessories

130587



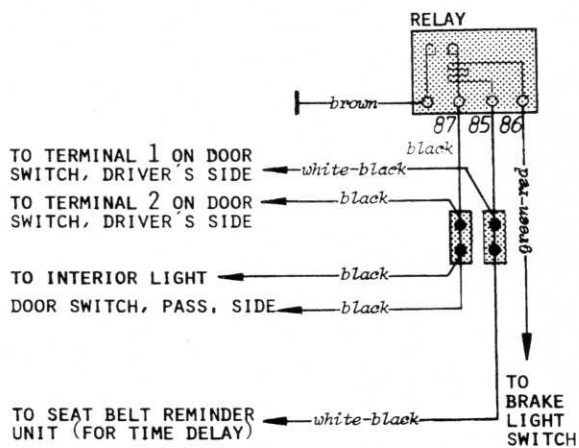
Interior light

130588



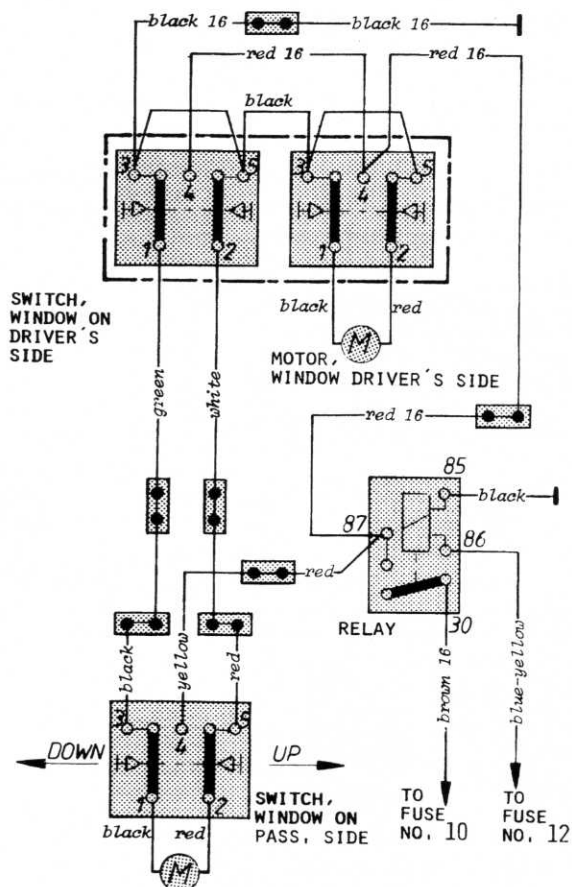
Rear interior light, wagon

130589



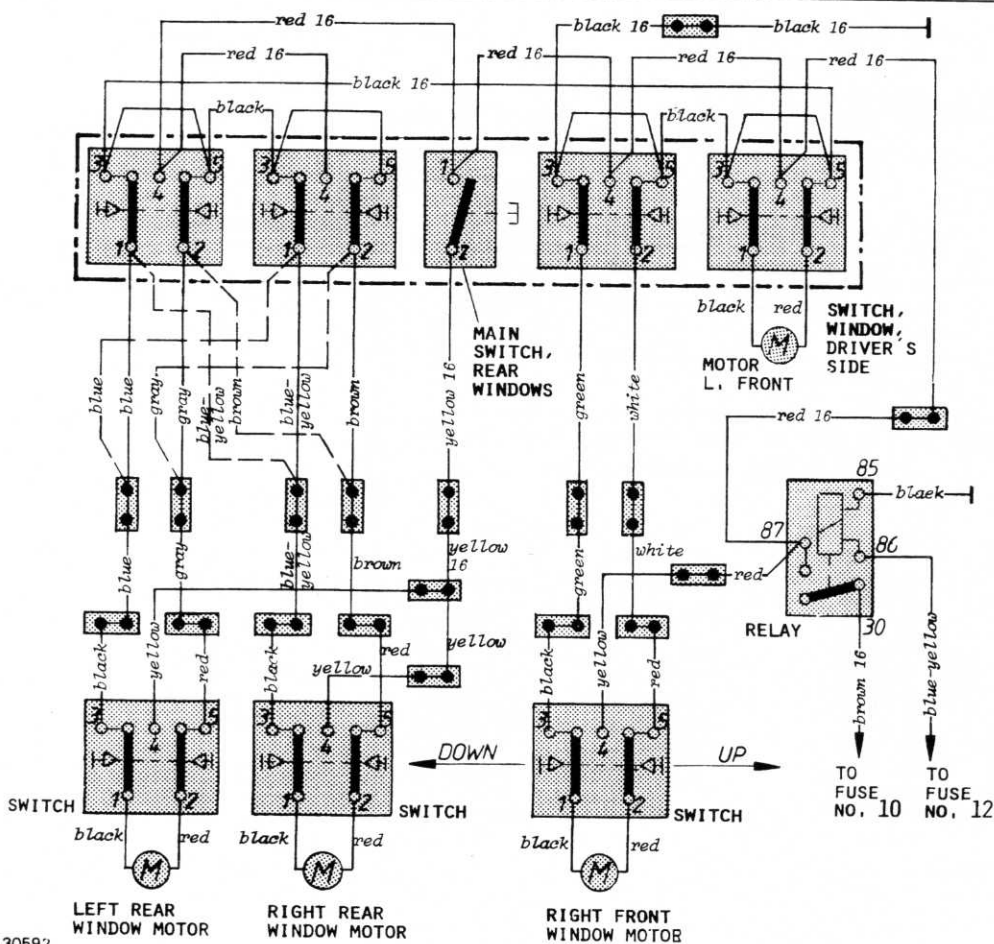
Delayed interior light

130590



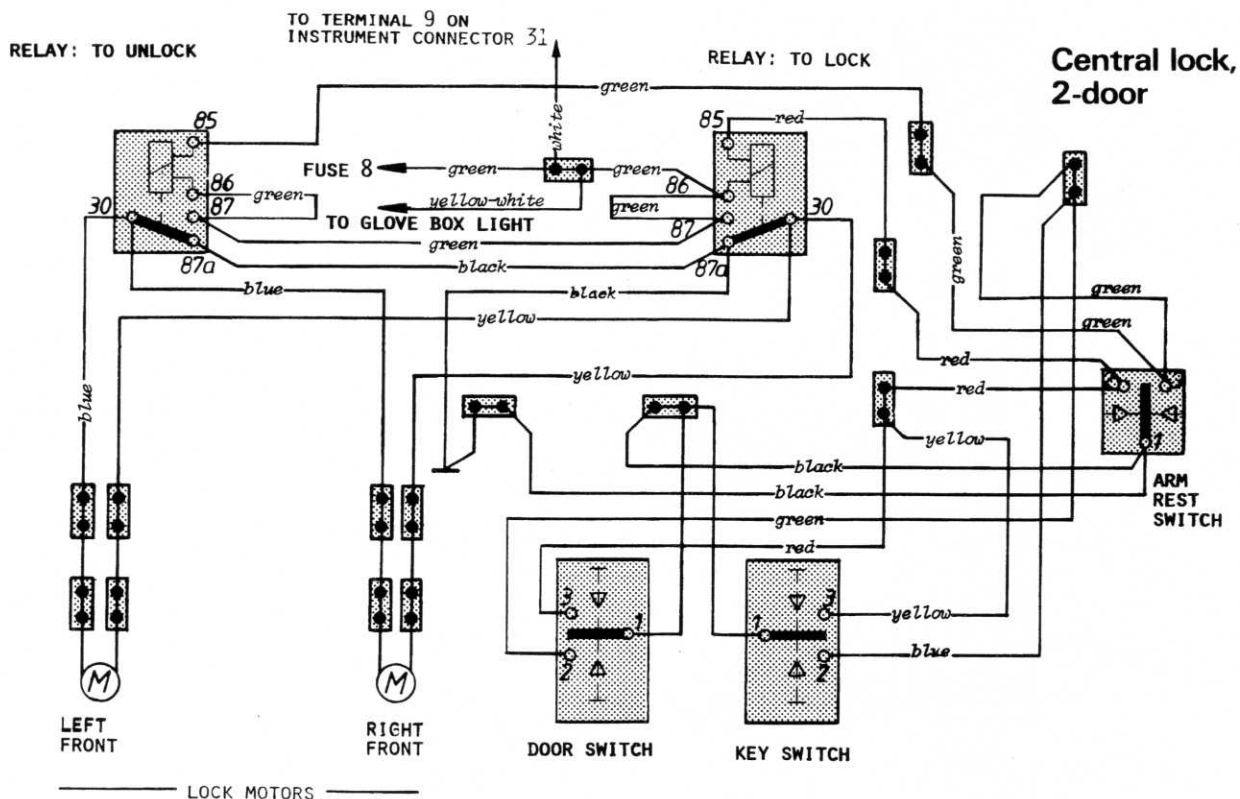
Window lifts,
2-door

130591

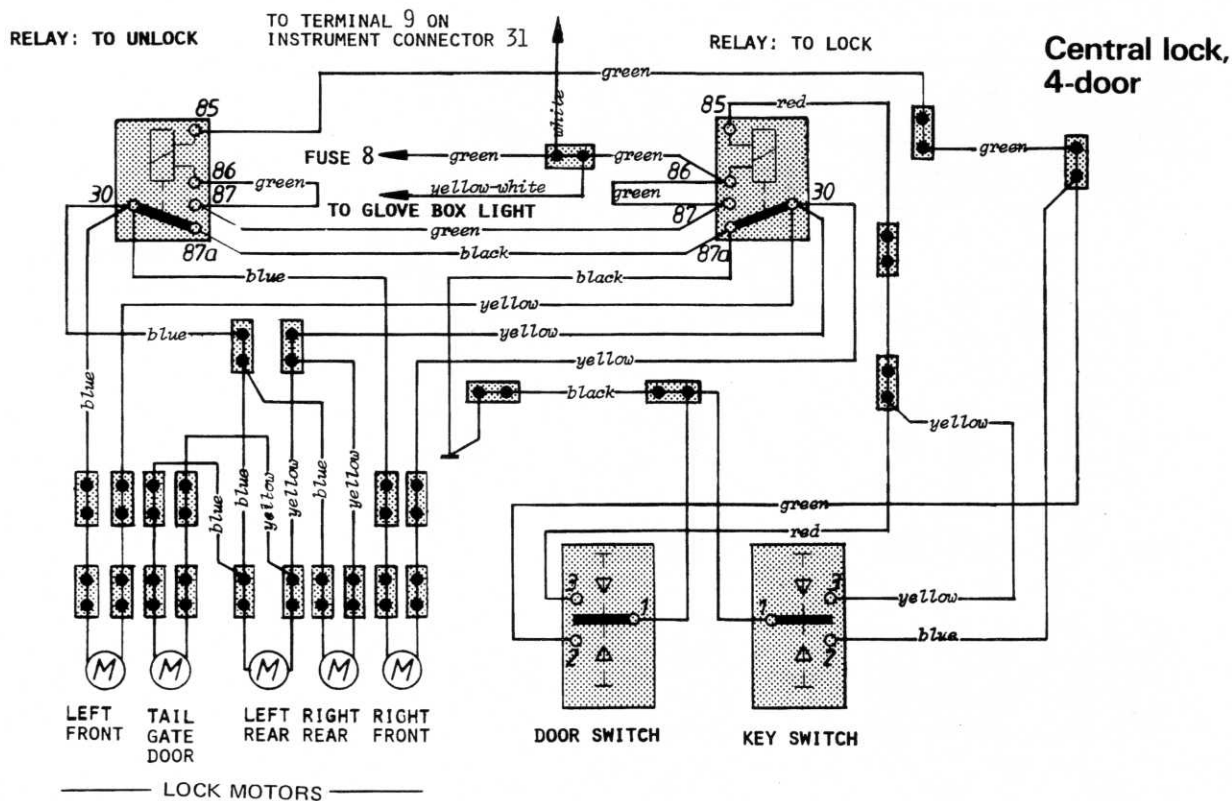


Window lifts,
4-door

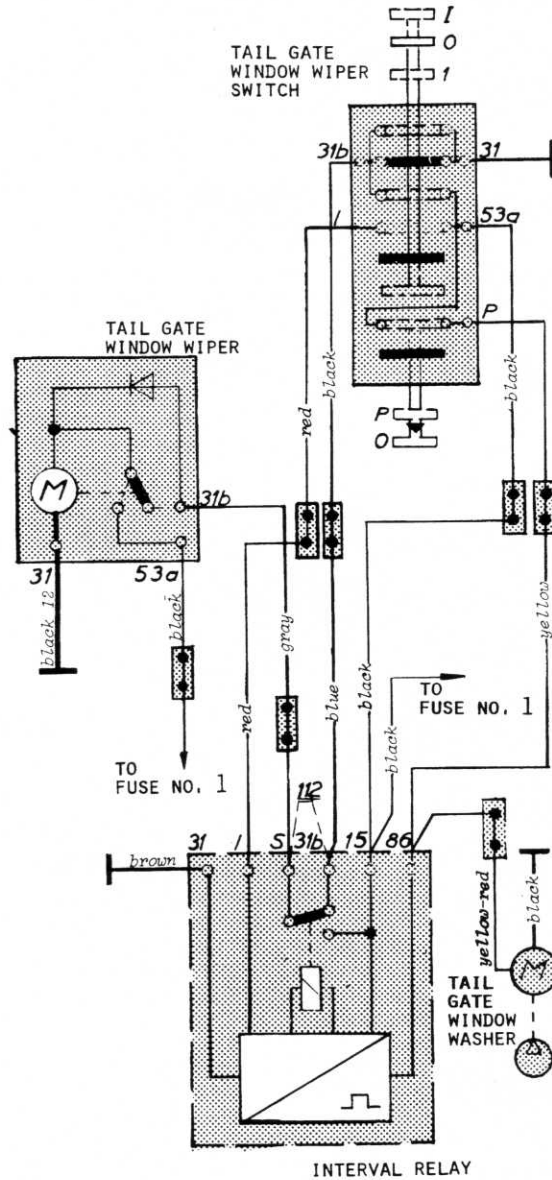
130592



130593

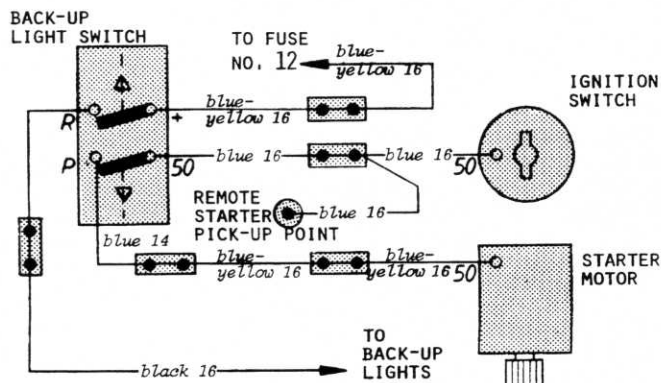


130594



**Tail gate window wiper,
wagon**

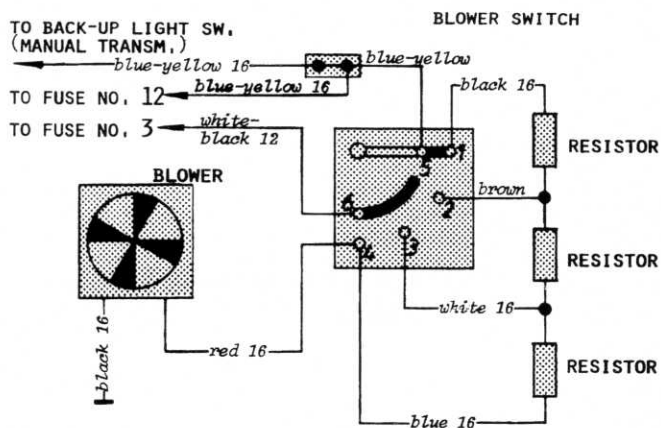
130595



**Back-up light,
automatic transmission**

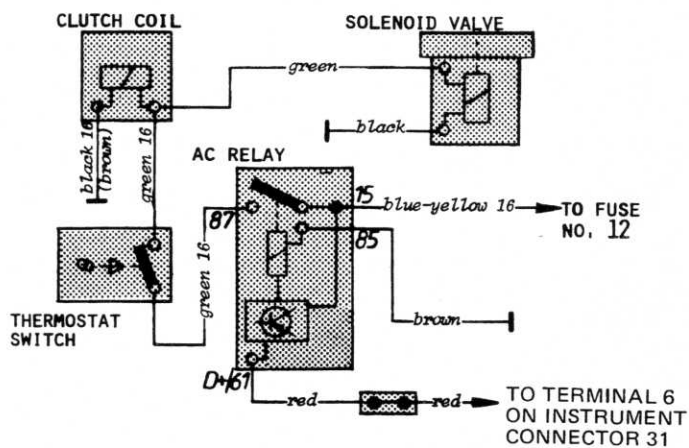
130596

Master wiring diagram
 - Heater blower, A/C,
 el. cooling fan -



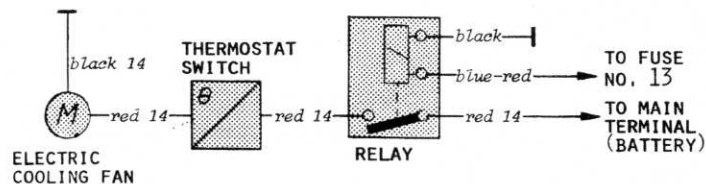
Heater blower

130597



Air conditioning

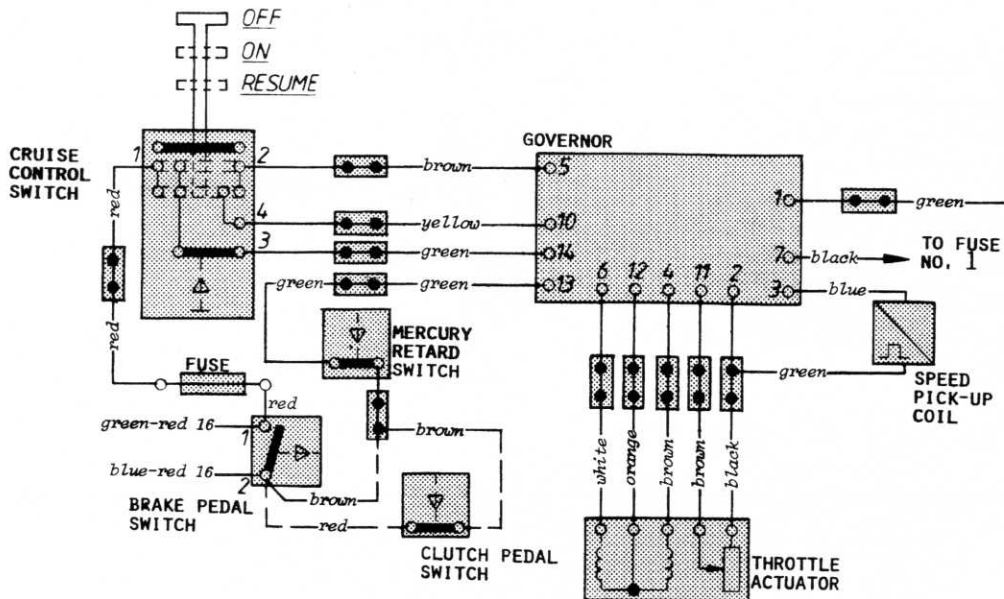
130598



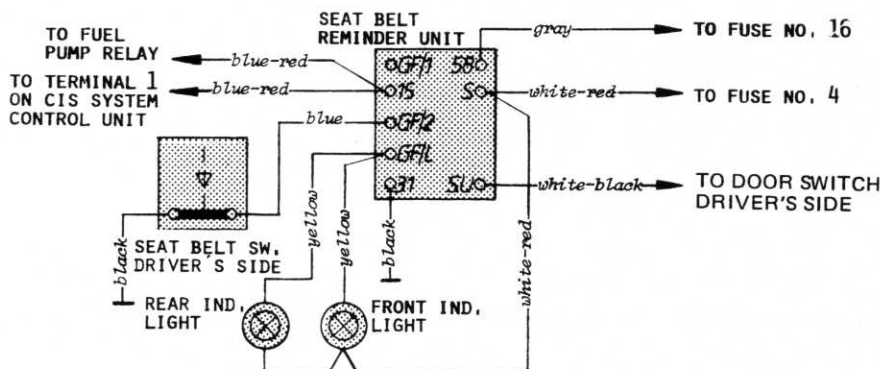
Electric cooling fan

130599

Cruise control

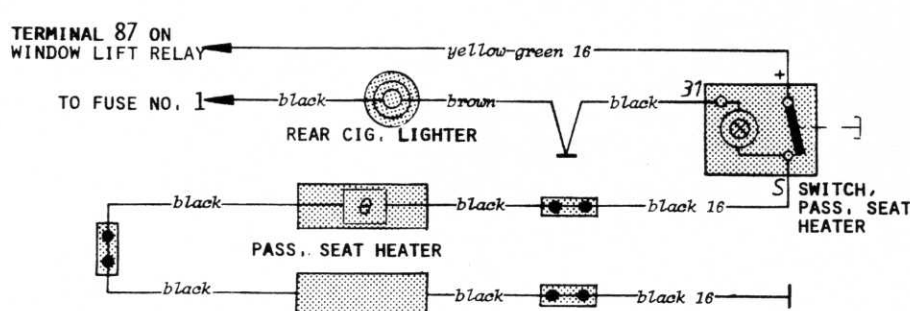


130600



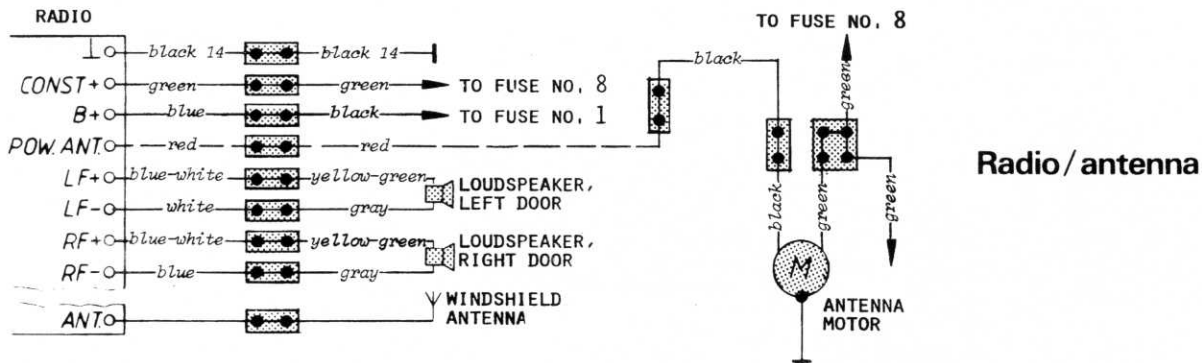
Seat belt reminder system

130601

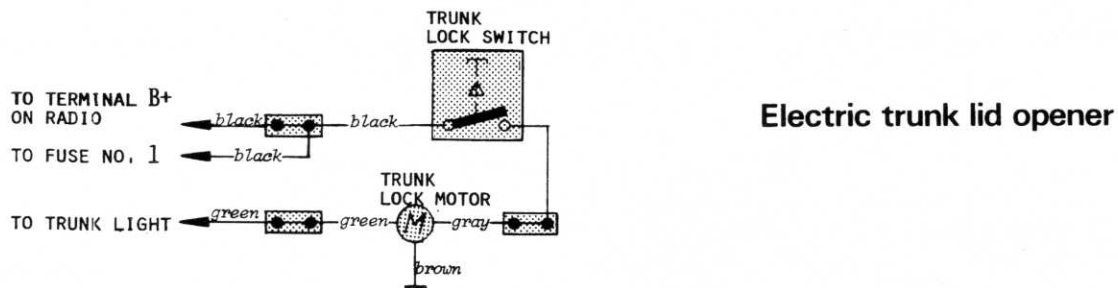


Pass. seat heater, rear cigarette lighter

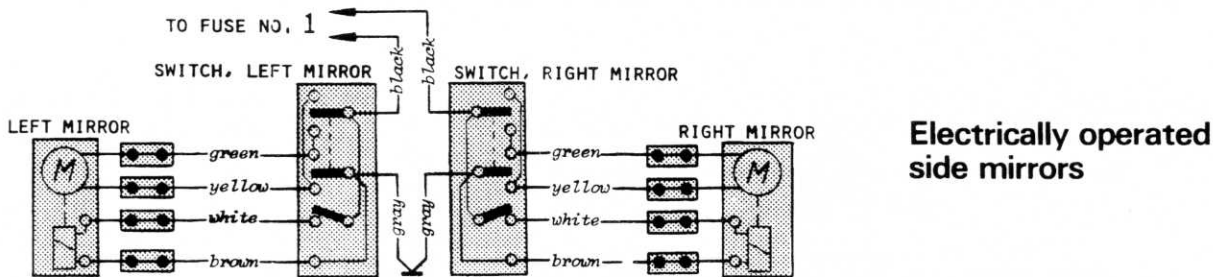
130602



130603



130604

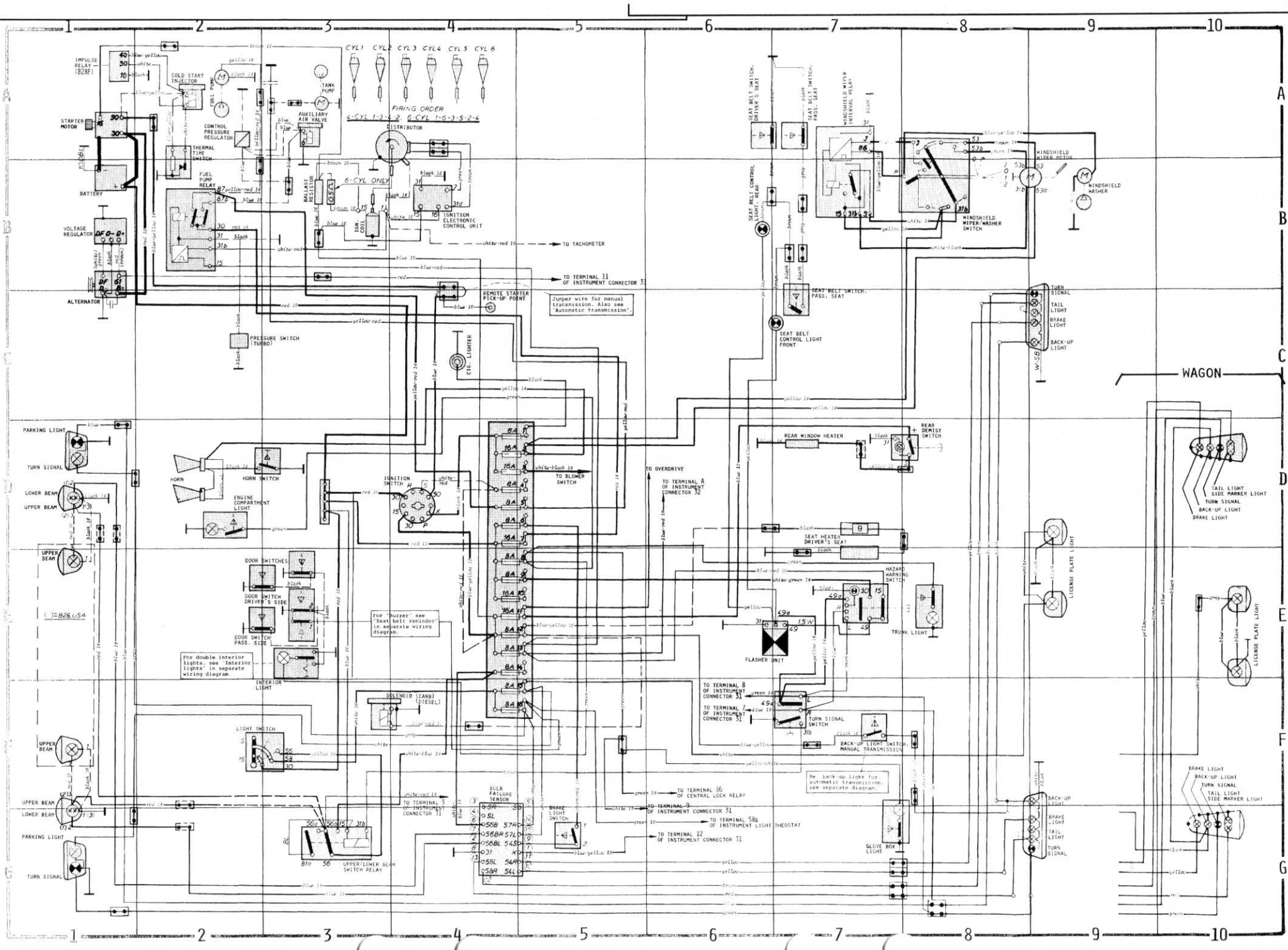


130605



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

(U.S.A. Only)



Index

Air conditioning	114	Ignition system:	
Alternator	6	– B21A (Canada)	22
Ambient temperature gauge	82	– B21F, B21F-Turbo (breakerless)	24
Back-up lights:		– B21F-MPG (computer controlled)	26
– DL, GL, manual transmission	50	– B28F	28
– DL, GL, automatic transmission	56	Ignition key and light warning buzzer ..	94
– GLE, GLT, Coupe, manual transmission ..	52	Instrument cluster	76
– GLE, Coupe, automatic transmission ..	58	Instrument lights, lights on controls	74
– Wagon, manual transmission	54	Interior light	62
– Wagon, automatic transmission	60	– Rear, wagon	64
Brake failure warning system	90	– Delayed	66
Brake lights:		– Coupe	68
– DL, GL	44	Lambda-sond (oxygen sensor system):	
– GLE, GLT, Coupe	46	– B21F	16
– Wagon	48	– B21F-Turbo	18
Bulb failure warning system	88	– B28F	20
Buzzer, key and light warning	94	License plate lights = parking lights	
Central lock:		Light warning buzzer	94
– 4/5-door	130	Master wiring diagrams	153
– Coupe	134	Mirrors, electrically operated	124
Cigarette lighter	86	Oil pressure gauge	78
Clock	84	Overdrive	110
Constant Idle Speed (CIS) System:		Oxygen sensor = Lambda-sond system	
– B21F, B21F-MPG	30	Parking lights:	
– B21F-Turbo	32	– DL, GL	38
– B28F	34	– GLE, GLT, Coupe	40
Cruise control	138	– Wagon	42
Delayed interior light	66	Radio, antenna	142
Demist, rear	118	Rear demist	118
Diesel	10	Rear interior light, wagon	64
Engine compartment light	70	Seat belt warning system	92
Electrically operated side mirrors	124	Seat heater:	
Electric cooling fan	144	– Driver's seat	120
Fuel injection system:		– Passenger seat	122
– B21F	12	Starting circuits	8
– B28F	14	– Diesel	10
Glove box light	72	Tail gate window wiper and washer:	
Glow plugs	10	– with interval relay	106
Hazard warning flashers	96	– without interval relay	108
Heater blower	112	Tail lights:	
Horn	100	– DL, GL	38
		– GLE, GLT, Coupe	40
		– Wagon	42
		Trunk light	70
		Turn signals, hazard warning flashers ..	96
		– Wagon	98
		Voltmeter	80
		Window lifts:	
		– 2-door	126
		– 4-door	128
		Windshield wiper and washer	102

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