

# Servicehandboek

## Reparatie en onderhoud

deel 3 (39)

Aansluitschema's  
bedrading

240 1975, 1976

# VOLVO

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Bestellings Nr: TP 11098/2  
 Vervangt vroegere uitgave: TP 11098/1

## VOORWOORD

Doordat het aantal functies en componenten van de elektrische uitrusting van de auto steeds is toegenomen en deze steeds meer taken krijgt opgedragen, zijn tot op heden gemaakte schema's zeer ingewikkeld geworden, zodat men er vaak niet meer uit wijs wordt.

In het voor U liggende boek met schema's presenteren wij de elektrische uitrusting op een andere manier, waardoor het veel gemakkelijker is om een en ander op te zoeken waardoor het gebruik wordt bevordert. Het complete schema

van de elektrische uitrusting is onderverdeeld in delen, die ieder voor zich een apart onderdeel van de elektrische uitrusting behandelen. Iedere functie wordt op een dubbel blad behandeld. De inwendige aansluitingen, aansluitingen aan de buitenkant en de plaats waar het onderdeel in de wagen is aangebracht, zijn hierop afgebeeld. Bovendien is te zien hoe de leidingen in de wagen zijn getrokken, evenals de stroomrichting zoals die onder "normale" omstandigheden is.

Zie verder volgende bladzijde.

## ZEKERINGEN

1975			1976		
Nr	Beveiligt volgende stroomverbruikers	Stroomsterkte	Nr	Beveiligt volgende stroomverbruikers	Stroomsterkte
1	Sigaretteaansteker Koplampwissers Wisser achterraut (245)	8 A	1	Sigaretteaansteker Koplampwissers Wisser achterraut (245)	8 A
2	Ruitwissers Luchtaanjager Claxon	16 A	2	Ruitwissers Luchtaanjager Claxon	16 A
3	Elektrisch verwarmde achterraut Overdrive	16 A	3	Elektrisch verwarmde achterraut Overdrive	16 A
4	Verlichting handschoenenkastje Achteruitrijlichten Elektrisch verwarmde bestuurdersstoel Air-conditioning	8 A	4	Verlichting handschoenenkastje Achteruitrijlichten Elektrisch verwarmde bestuurdersstoel Air-conditioning	8 A
5	Instrumenten Richtingaanwijzers Controle- en waarschuwingslampjes Waarschuwingrelais autogordels	5 A	5	Instrumenten Richtingaanwijzers Controle- en waarschuwingslampjes Relais, injectiemotor Elektromagnetische klep, carburateur Relais lampje autogordels	8 A
6	Waarschuwingknipperlichten Achterste interieur verlichting Motorruimte verlichting	8 A	6	Waarschuwingknipperlichten Achterste interieurverlichting Motorruimte verlichting	8 A
7	Klokje Benzinepomp, injectiemotor	8 A	7	Klokje Benzinepomp, injectiemotor	8 A
8	Remlichten Interieurverlichting	8 A	8	Remlichten Interieurverlichting	8 A
9	Reserve	5 A			
10	Rijlichten	8 A			
11	Linker parkeerlicht Linker kentekenplaatverlichting (245: links en rechts)	5 A			
12	Rechter parkeerlicht Rechter kentekenplaatverlichting Instrumenten- en paneelverlichting	5 A	11	Linker parkeerlicht Linker kentekenplaatverlichting (245: links en rechts)	5 A
			12	Rechter parkeerlicht Rechter kentekenplaatverlichting Instrumenten- en paneelverlichting	8 A

# Zo moet U het

Zoek in de Inhoudsopgave het onderdeel van de elektrische installatie op, dat U wilt onderzoeken. Laten we zeggen dat U de ruitwissers wilt bekijken. Volgens de inhoudsopgave vindt U ruitwissers en -sproeiers op blz 23. Deze slaat U dus op.

Hier ziet U schematisch hoe de componenten op elkaar zijn aangesloten en hoe ze er van binnen uitzien.

De dikte van de leidingen wordt aangegeven in mm<sup>2</sup> en de kleur met hoofdletters:

SB	= zwart	BR	= bruin
GR	= grijs	Y	= geel
W	= wit	BL	= blauw
R	= rood	GN	= groen

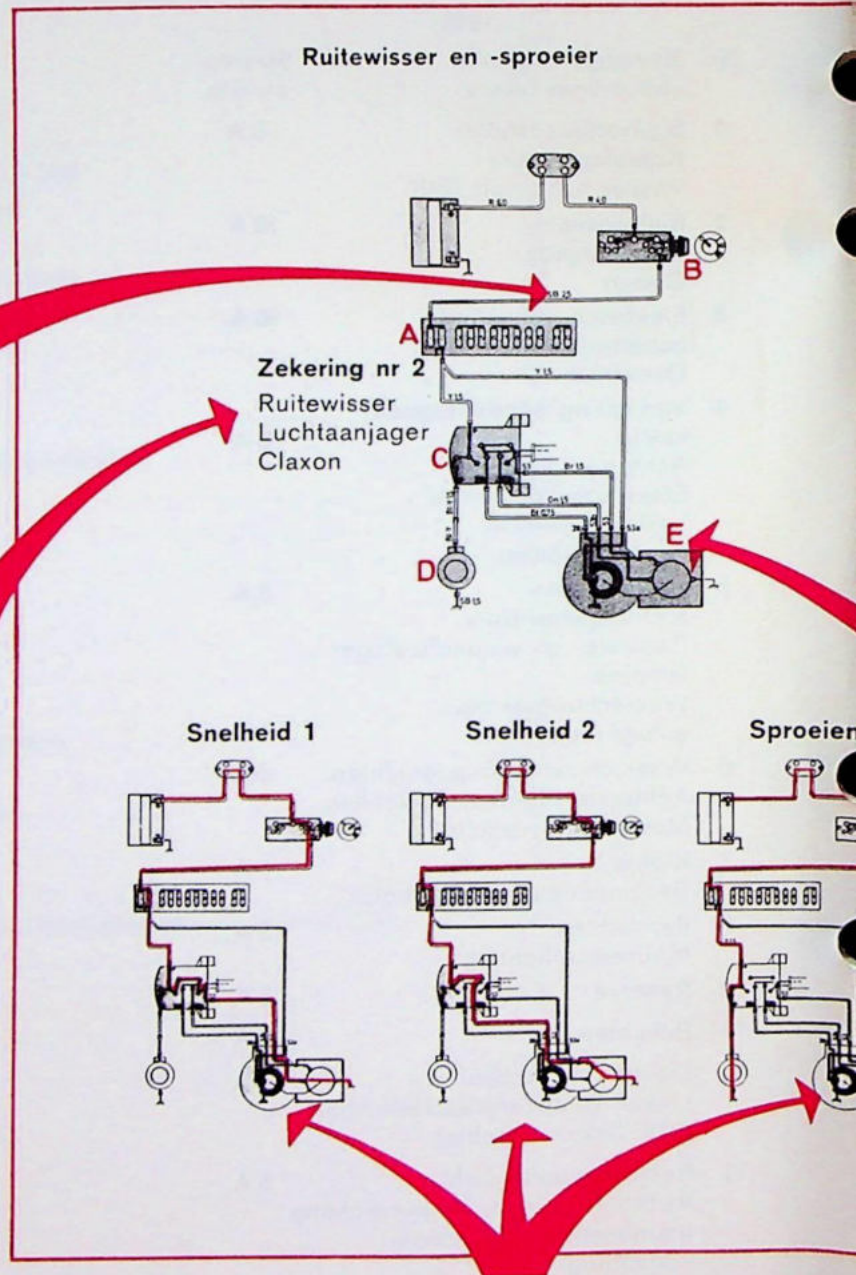
In die gevallen, dat bepaalde functies gemeenschappelijk over een zekering zijn geschakeld, wordt dit vermeld om het vinden van een storing te vergemakkelijken.

Voorbeeld:

De ruitwisser werkt niet.

Als de claxon werkt dan zit de storing in of na het zekeringenkastje.

Werkt de claxon niet dan zit de storing waarschijnlijk tussen de accu en het zekeringenkastje.

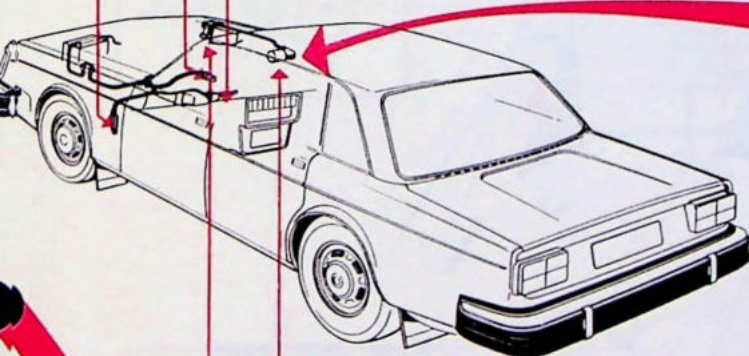
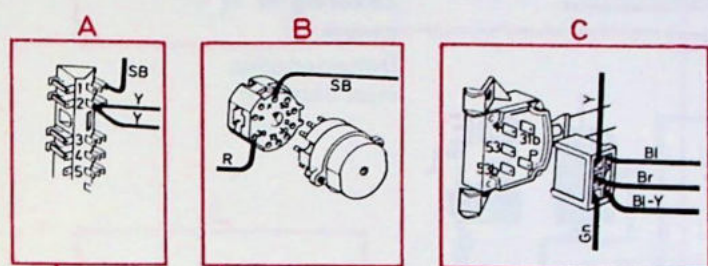


Hier ziet U de stroomrichting onder verschillende omstandigheden.

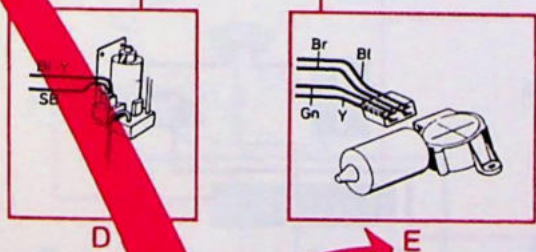
# schema gebruiken

Begin hier

## Ruitwisser en -sproeier



Hier ziet U waar de componenten voor de functie zijn aangebracht.



Bovendien ziet U hoe de leidingen zijn getrokken en waarop de betreffende component c.q. leidingen zijn aangesloten.

Met behulp van de hoofdletters vindt U gauw de componenten, die bij het elektrische schema horen.

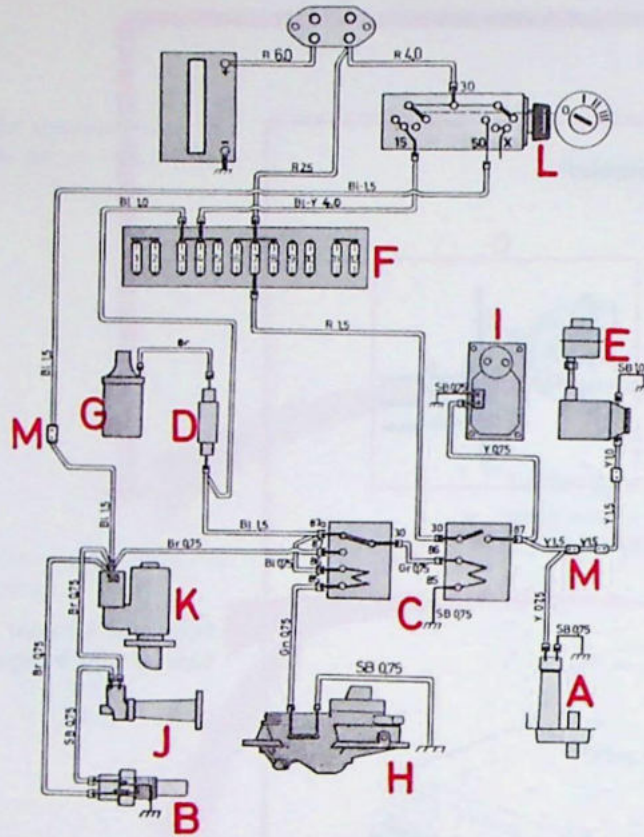
# Benzine-inspuiting -75

## Zekering nr 4

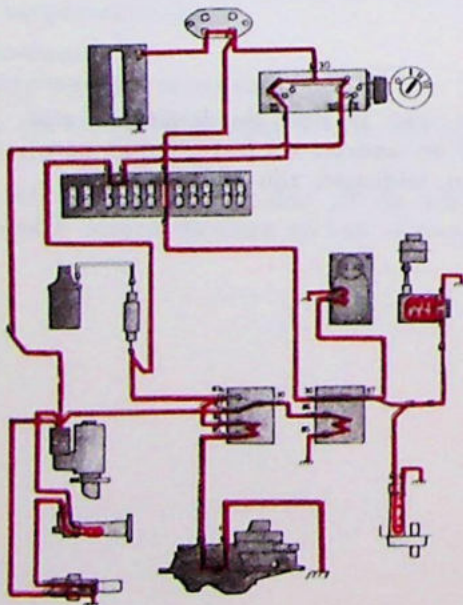
Verlichting handschoenenkastje  
Achteruitrijlichten  
Elektrisch verwarmde bestuurdersstoel  
Air-conditioning

## Zekering nr 7

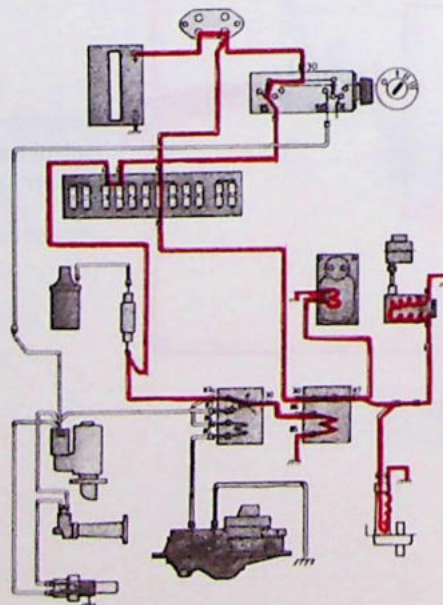
Klokje  
Benzinepomp,  
injectiemotor



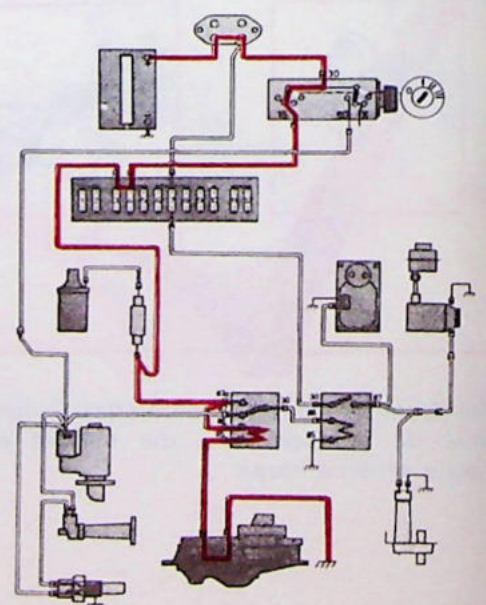
Starten van de motor



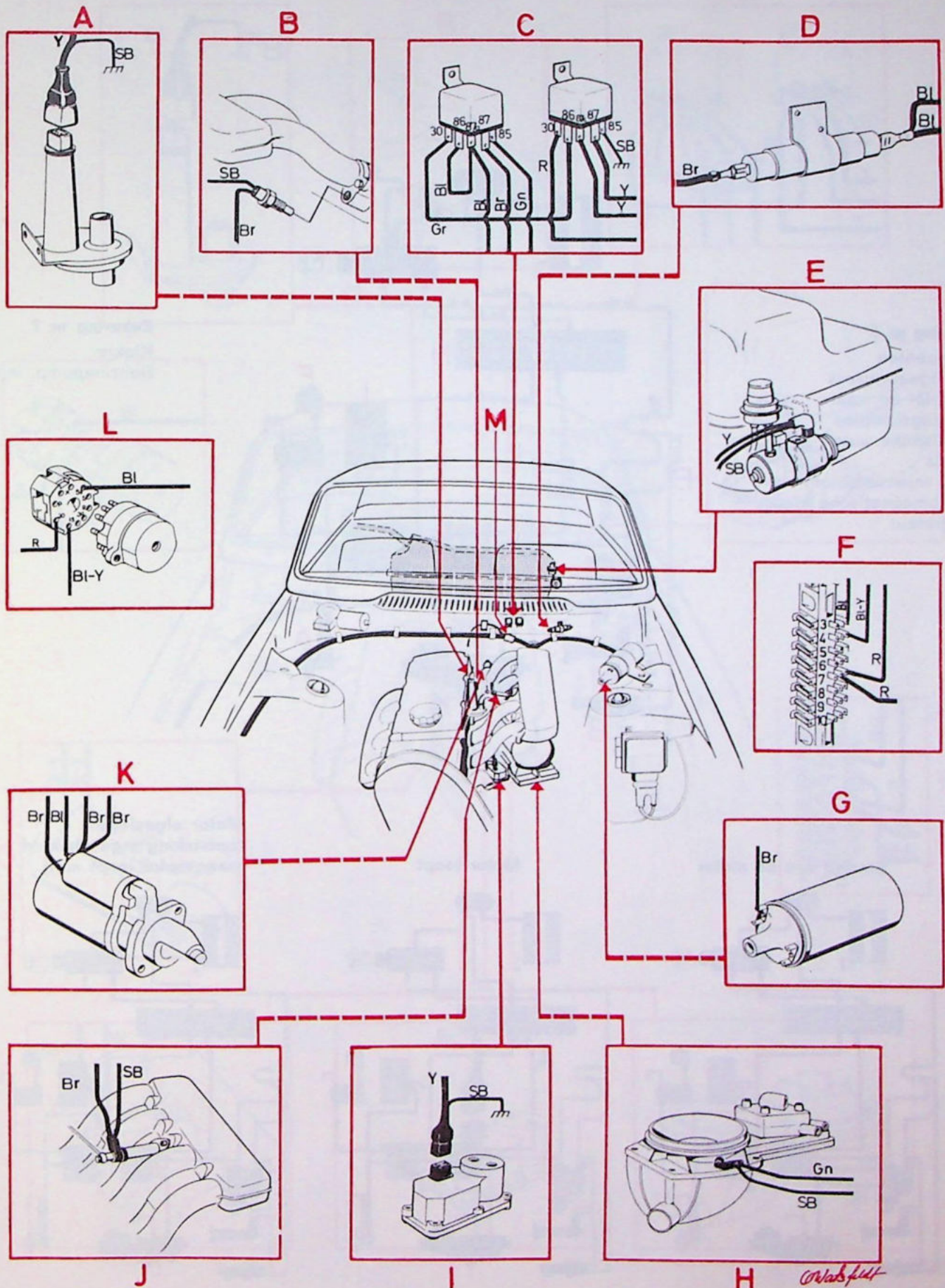
Motor loopt



Motor afgeslagen  
(ontsteking ingeschakeld,  
maar motor loopt niet)

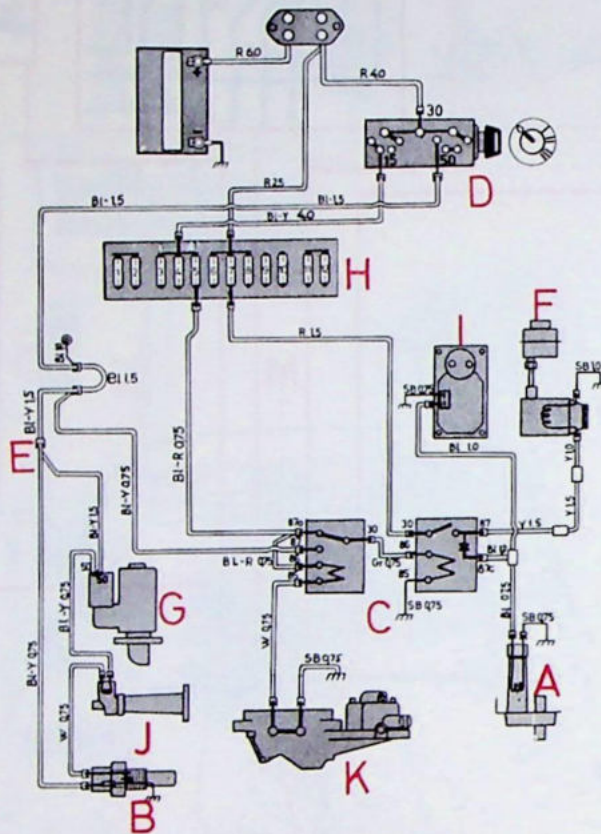


# Benzine-inspuiting -75



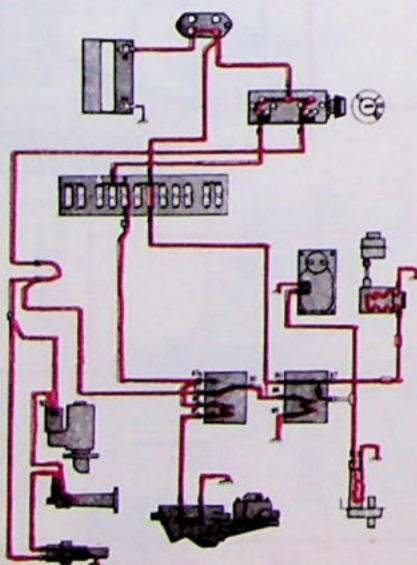
# Benzine-inspuiting -76

**Zekering nr 5**  
 Instrumenten  
 Richtingaanwijzers  
 Controle- en waarschuwingslampjes  
 Relaislampje auto-gordels  
 Relais injectiemotor  
 Elektromagnetische klep, carburateur

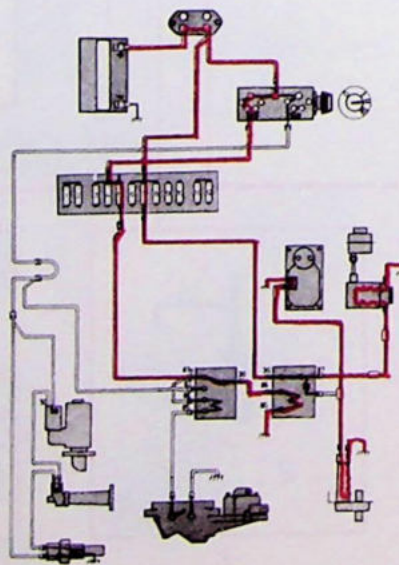


**Zekering nr 7**  
 Klokje  
 Benzinepomp, injectie

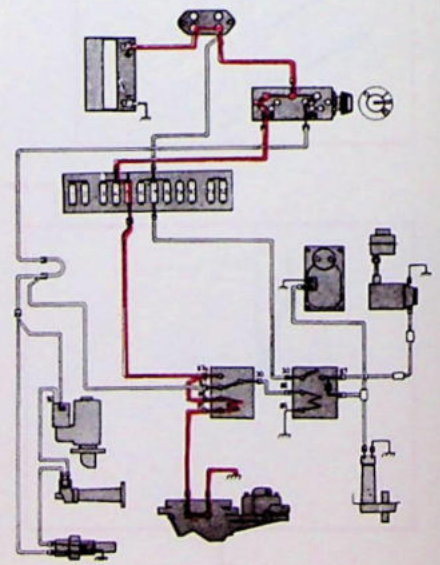
**Starten van de motor**



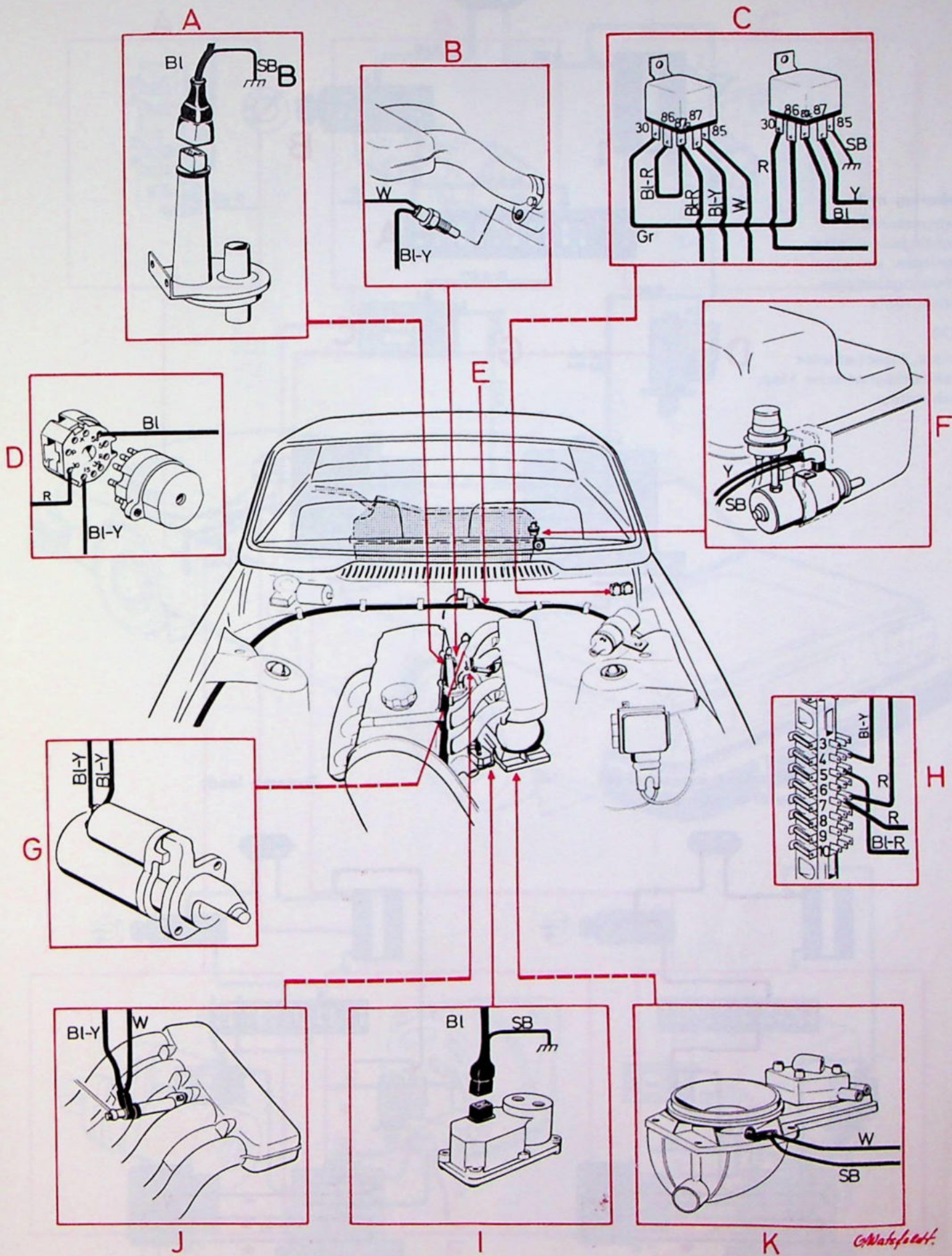
**Motor loopt**



**Motor afgeslagen (ontsteking ingeschakeld, maar motor loopt niet)**



# Benzine-inspuiting -76

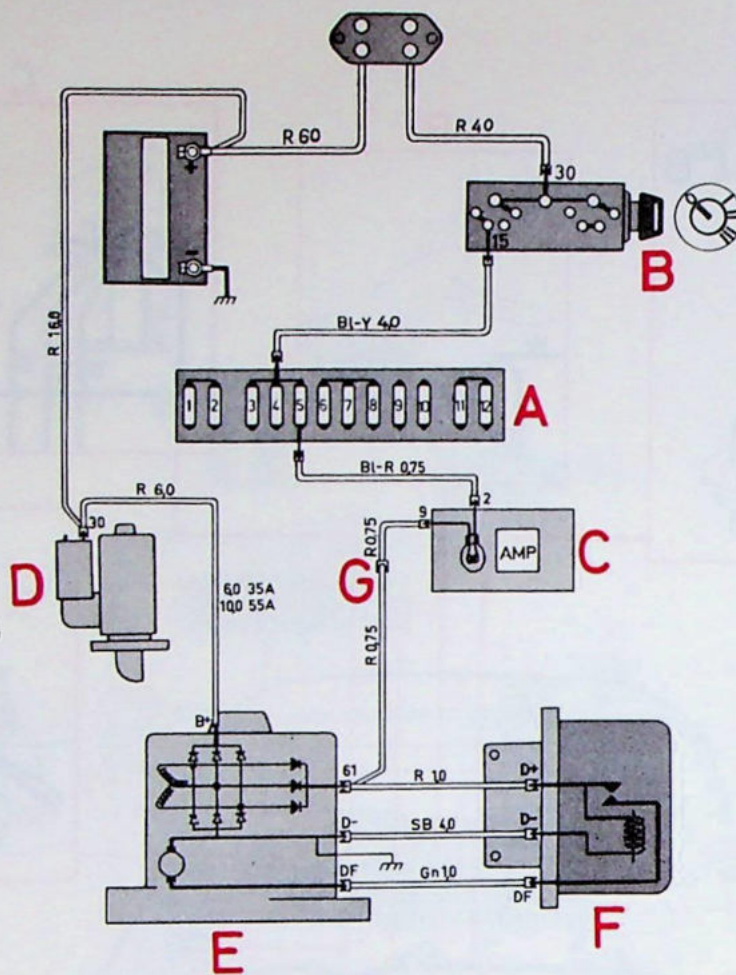


Walsdorf

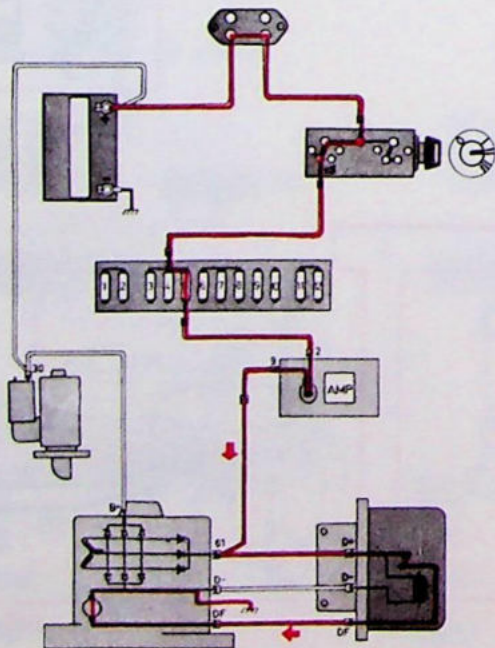
# Stroomvoorziening

Zekering nr 5  
 Instrumenten  
 Richtingaanwijzers  
 Controle- en waarschuwingslampjes  
 autogordels

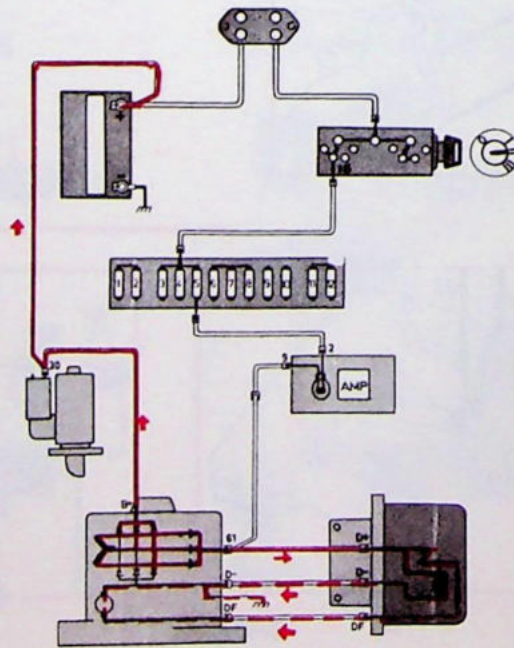
1976  
 Relais, injectiemotor  
 Elektromagnetische klep,  
 carburateur



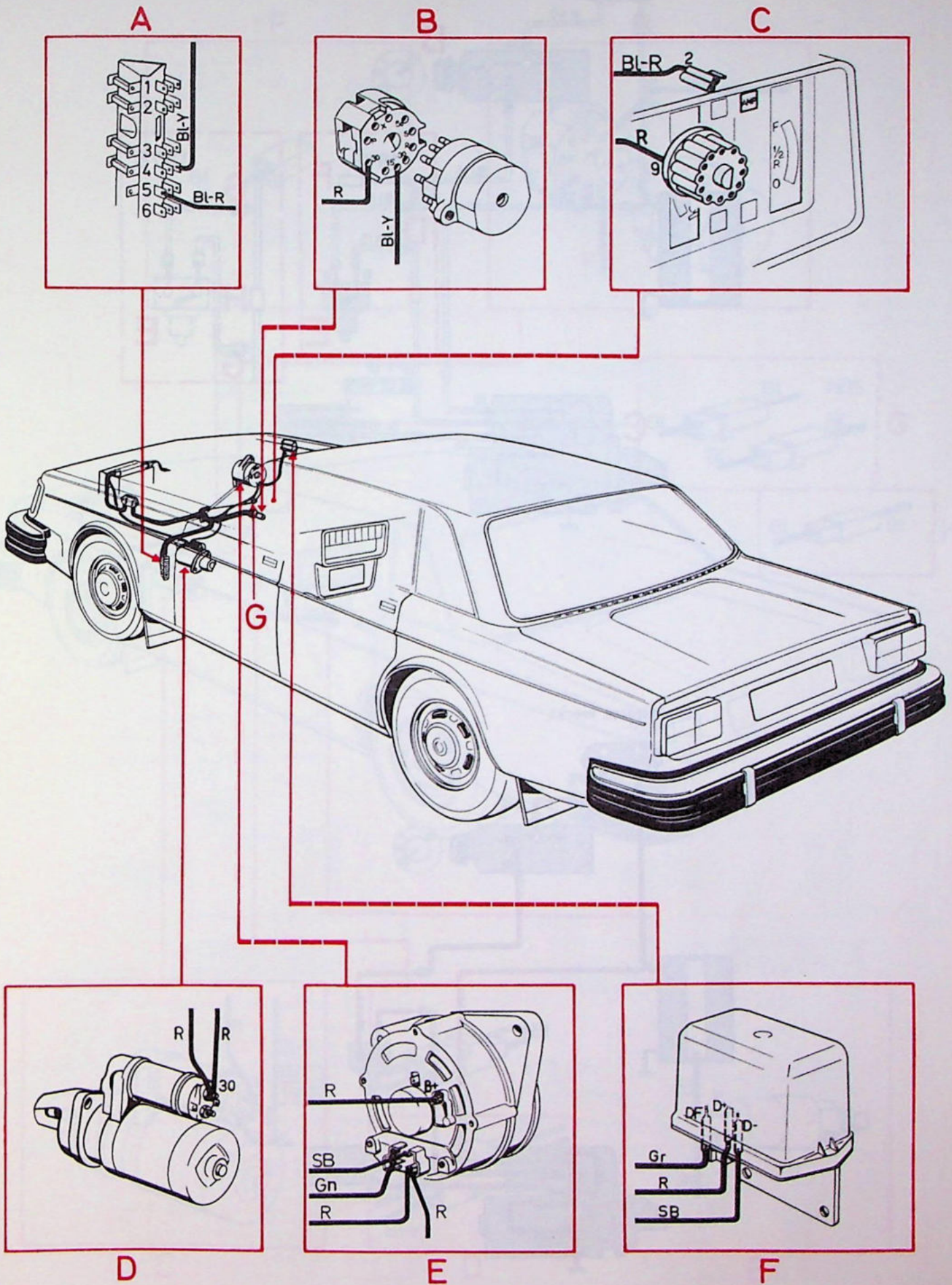
Ontsteking ingeschakeld  
 (motor loopt niet)



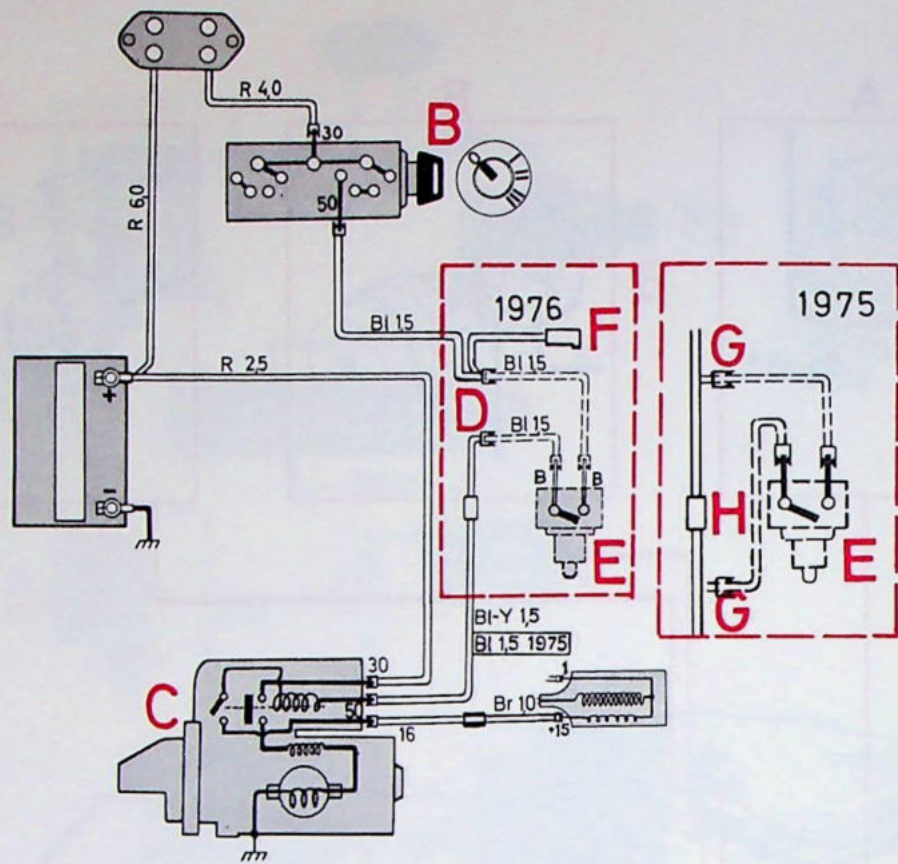
Dynamo laadt



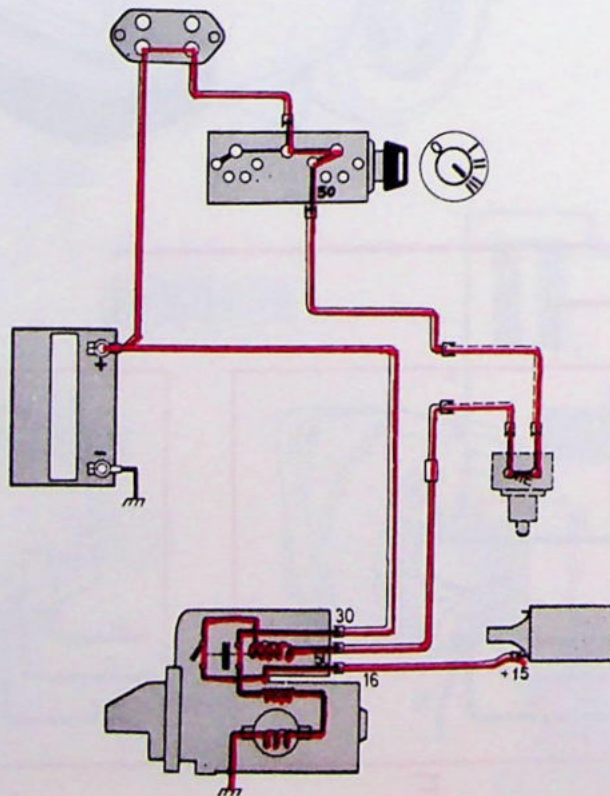
# Stroomvoorziening



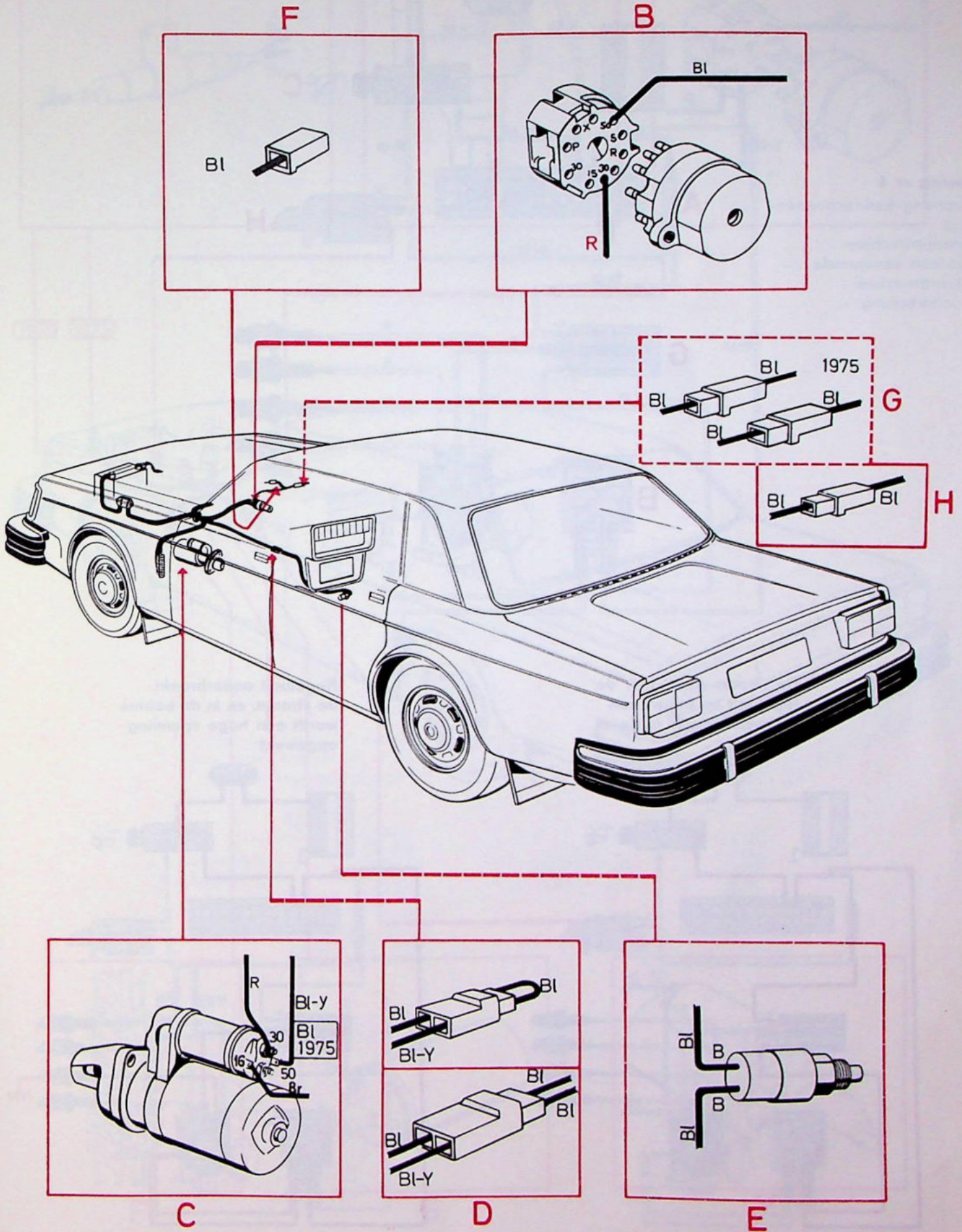
# Startsysteem



## Startmotor werkt



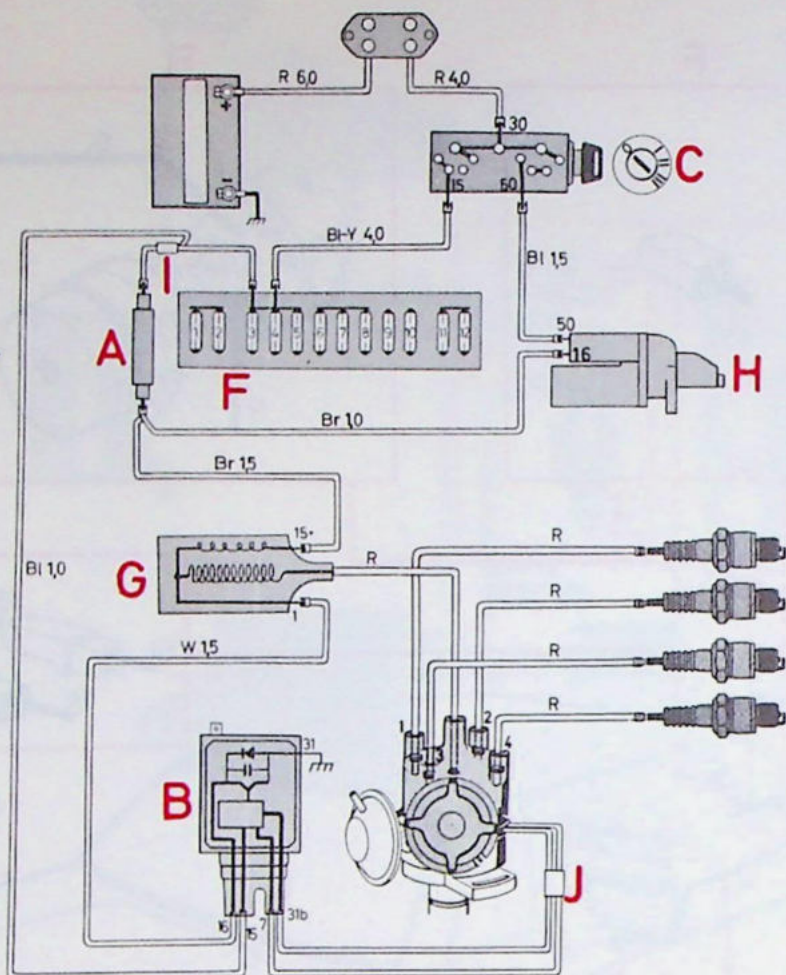
# Startsystem



# Ontstekingsysteem zonder contactpunten

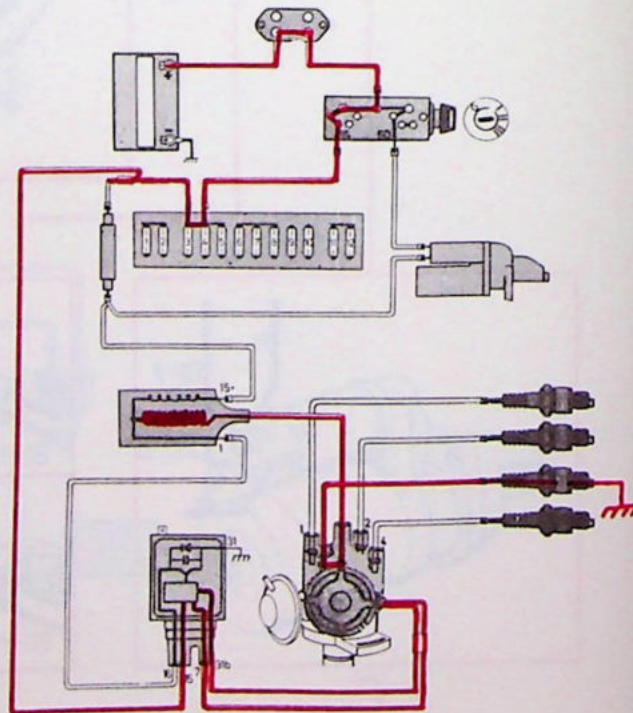
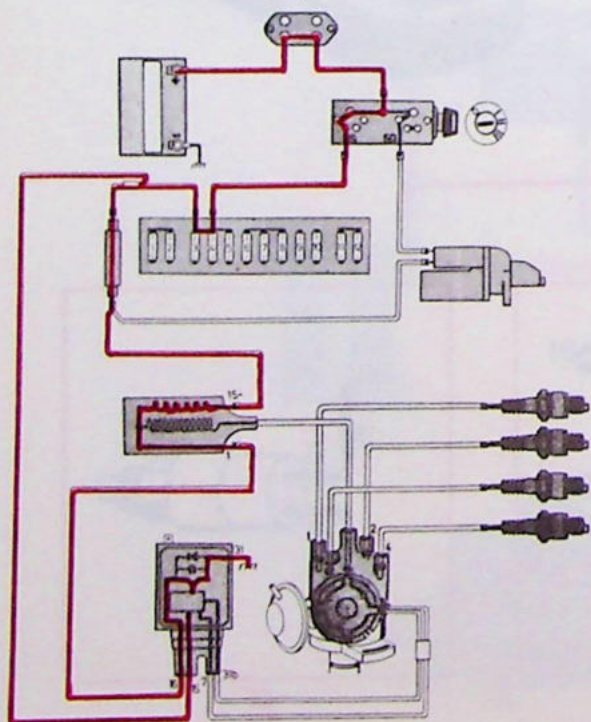
## Zekering nr 4

- Verlichting handschoenenkastje
- Achteruitrijlichten
- Elektrisch verwarmde bestuurdersstoel
- Air-conditioning



De stroom gaat door de regelunit en bouwt een magnetisch veld in de bobine op

Regelunit onderbreekt de stroom, en in de bobine wordt een hoge spanning opgewekt

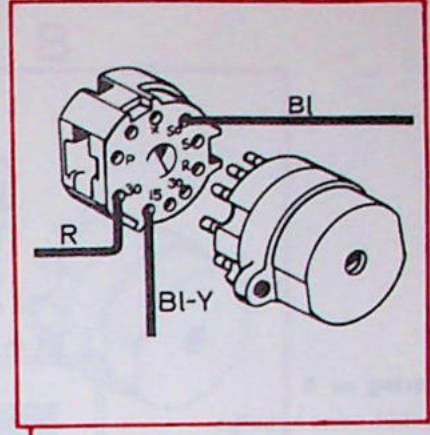
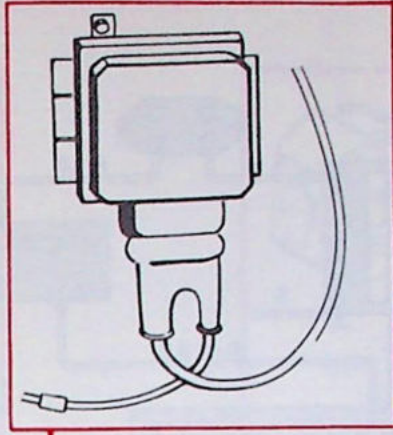
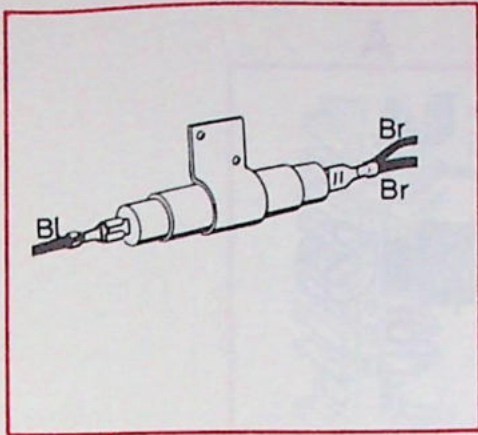


# Ontstekingsysteem zonder contactpunten

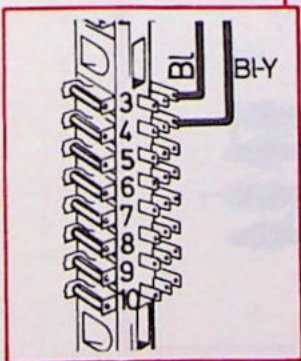
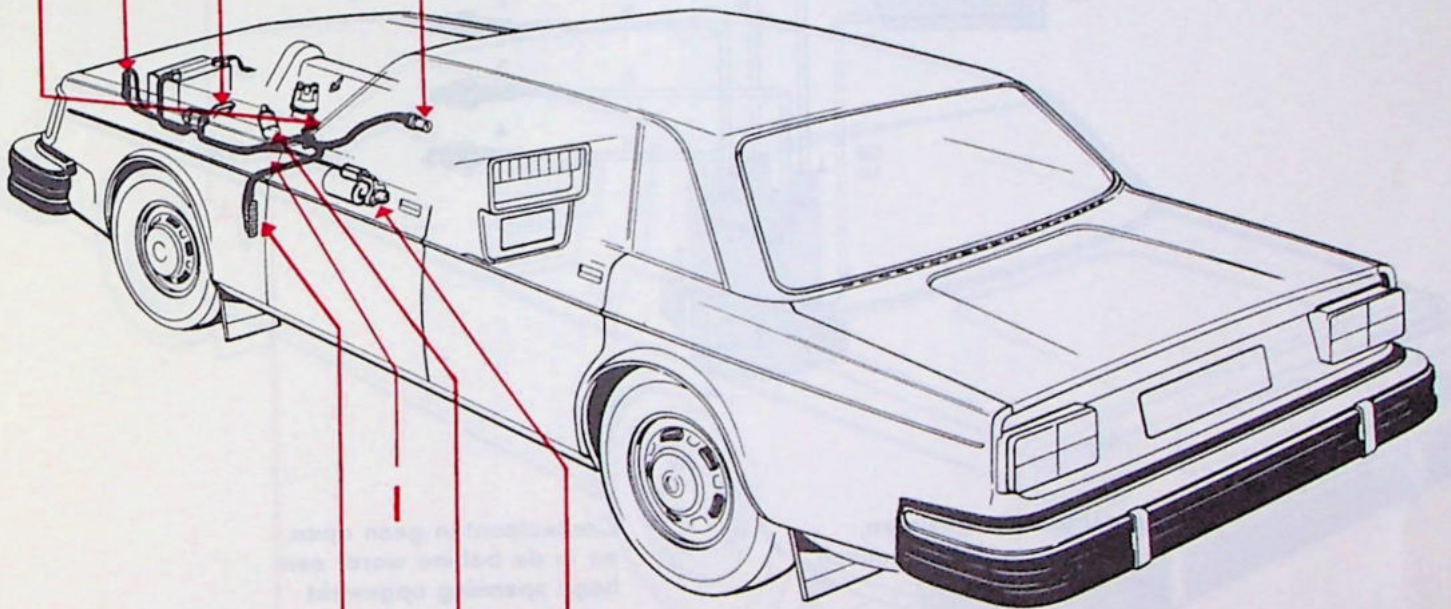
A

B

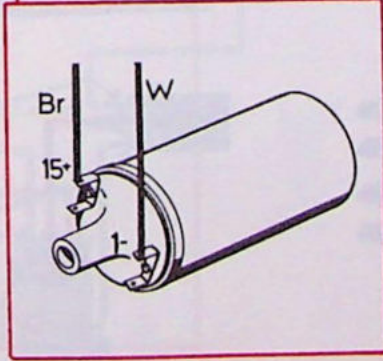
C



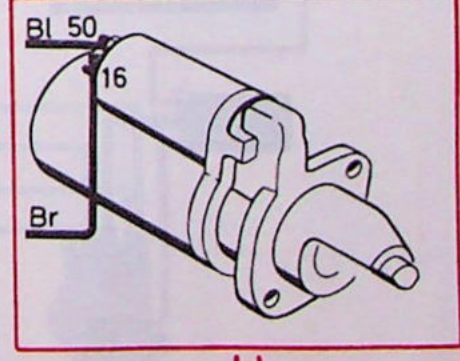
1976 1975



F



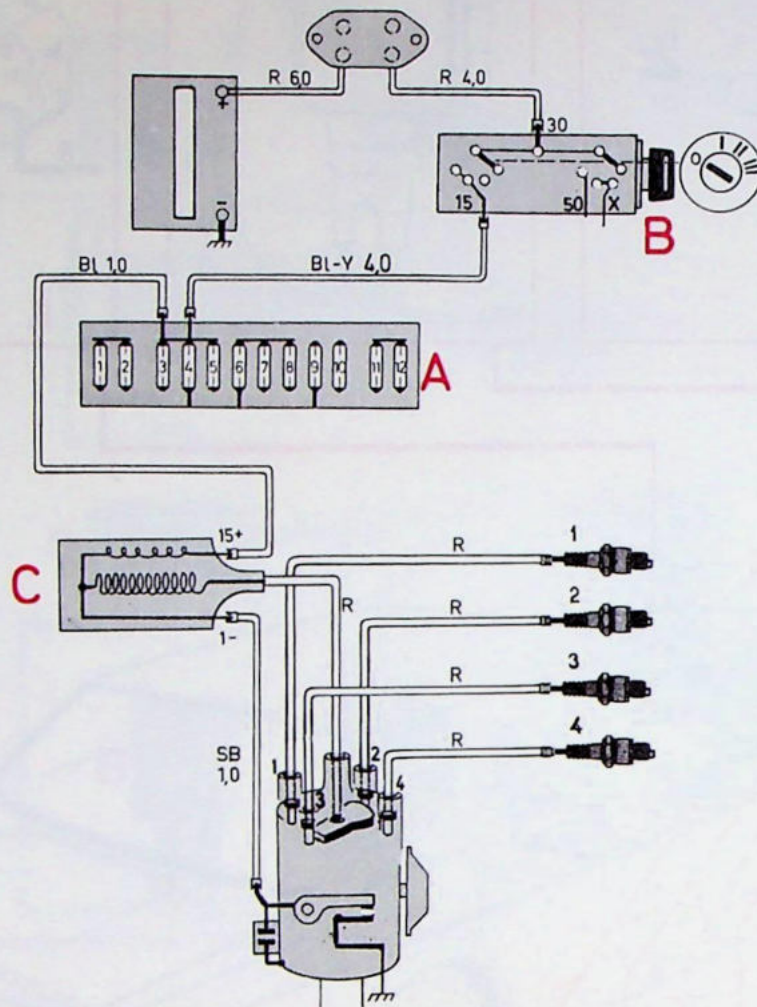
G



H

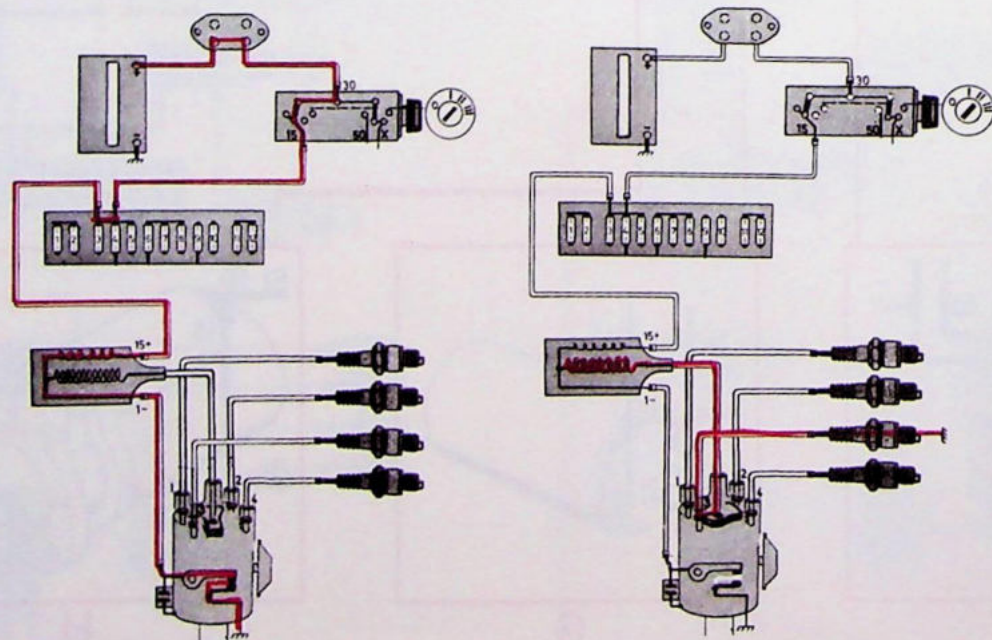
# Ontstekingsysteem met contactpunten

**Zekering nr 4**  
 Handschoenenkastje  
 Achteruitrijlichten  
 Elektrisch verwarmde  
 bestuurdersstoel  
 Air-conditioning



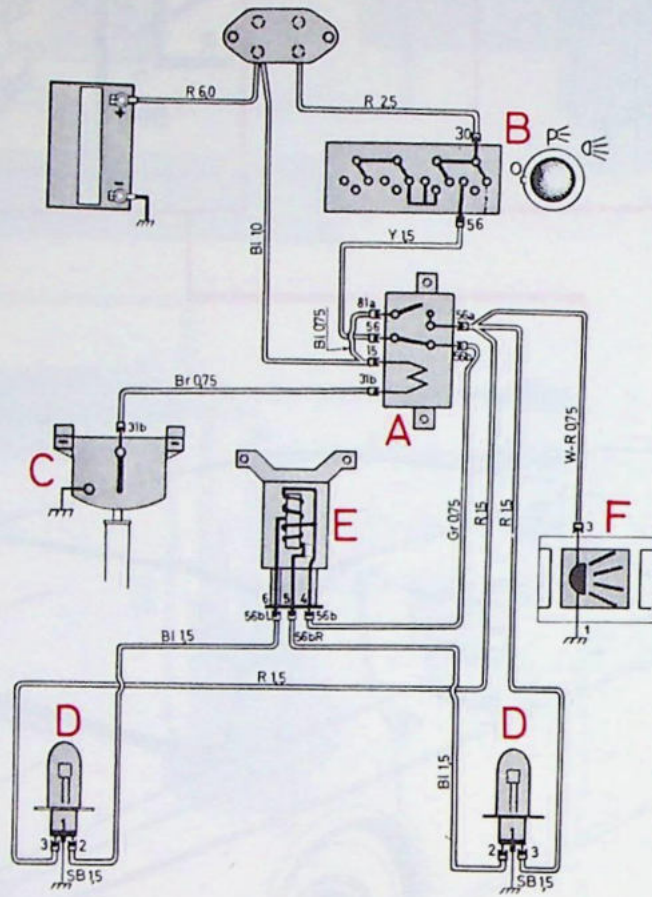
Contactpunten gesloten,  
 in bobine wordt magnetisch  
 veld opgebouwd

Contactpunten gaan open,  
 en in de bobine wordt een  
 hoge spanning opgewekt

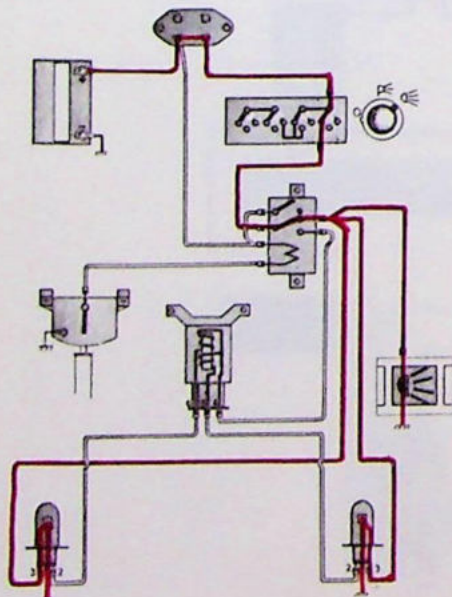




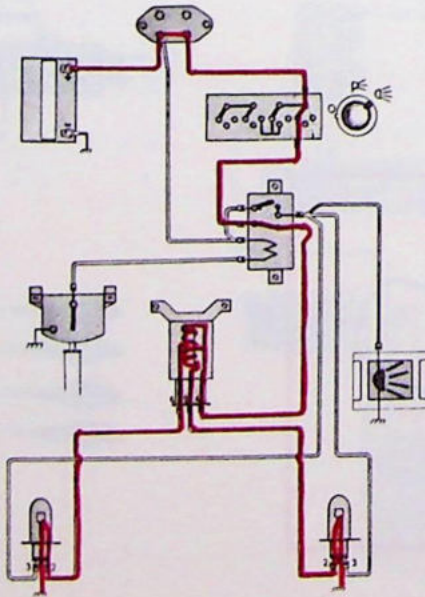
# Groot- en dimlicht



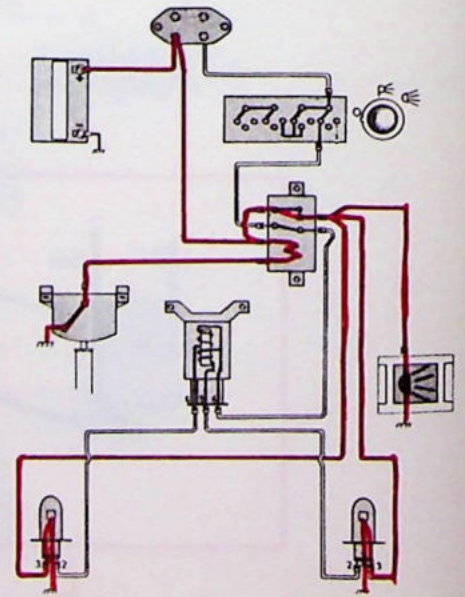
Groot licht



Dimlicht

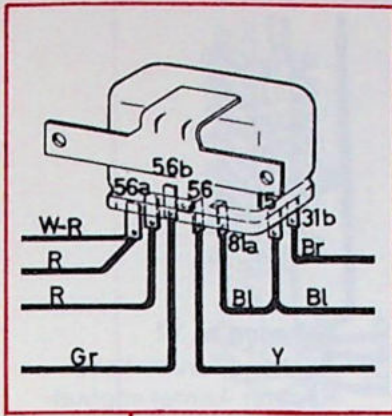


Grootlichtsignaal

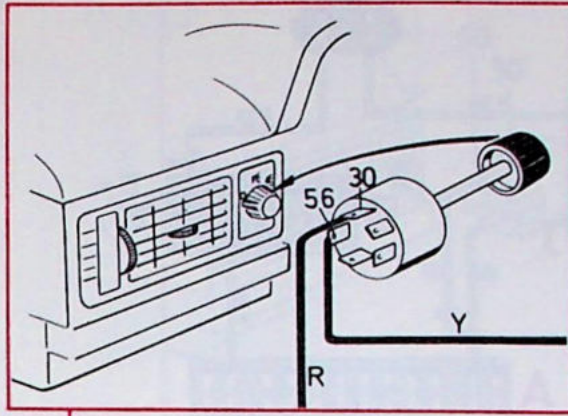


# Groot- en dimlicht

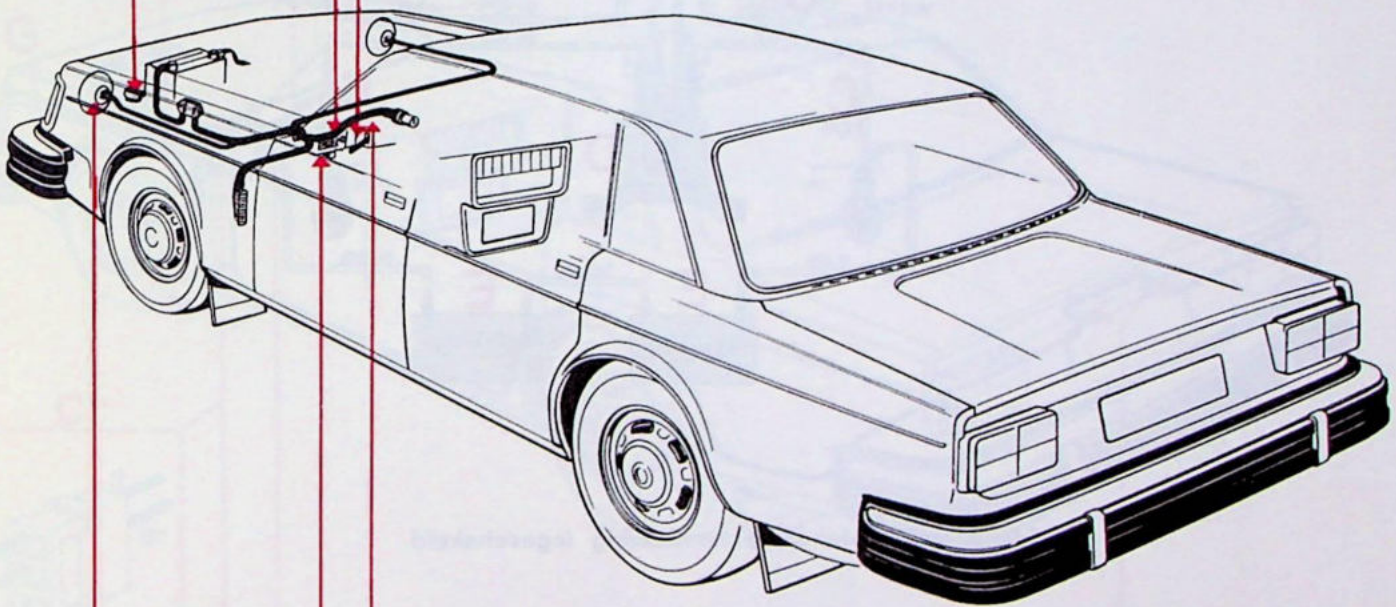
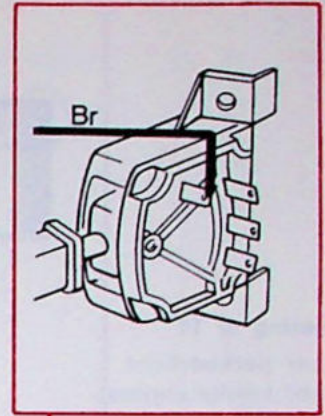
A



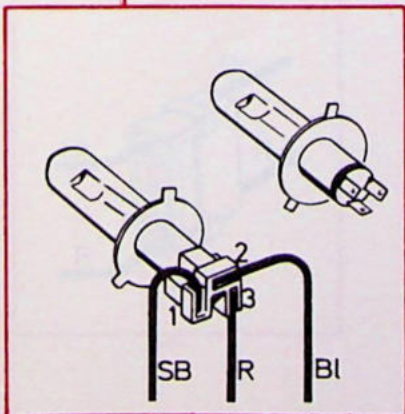
B



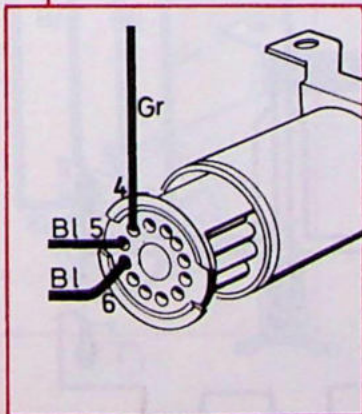
C



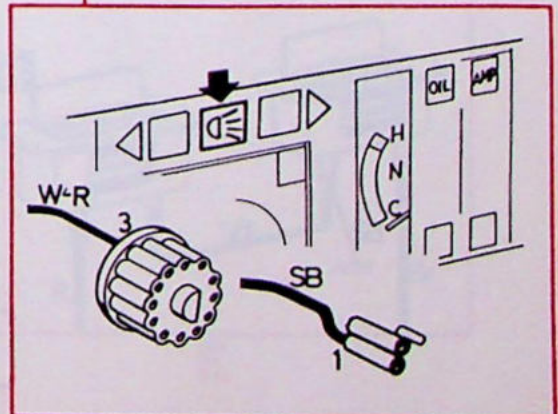
D



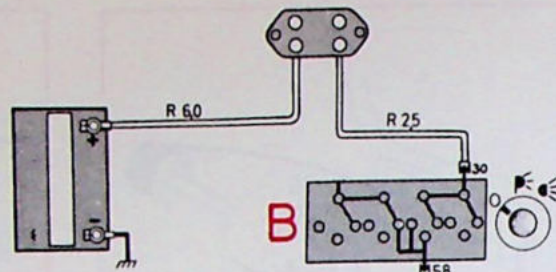
E



F

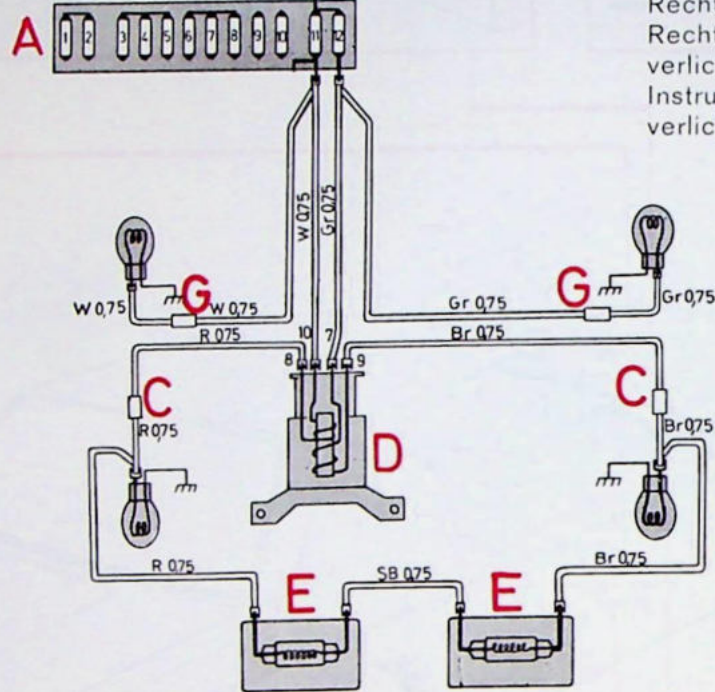


# Stads- en kentekenplaatverlichting 242/244

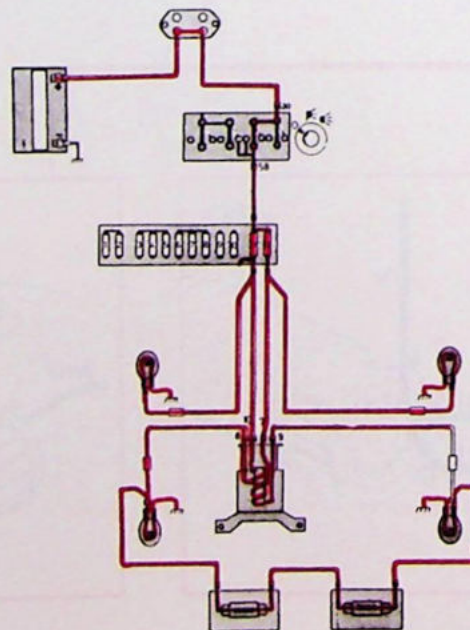


**Zekering nr 11**  
 Linker parkeerlicht  
 Linker kentekenplaat-  
 verlichting  
 (245: links en rechts)

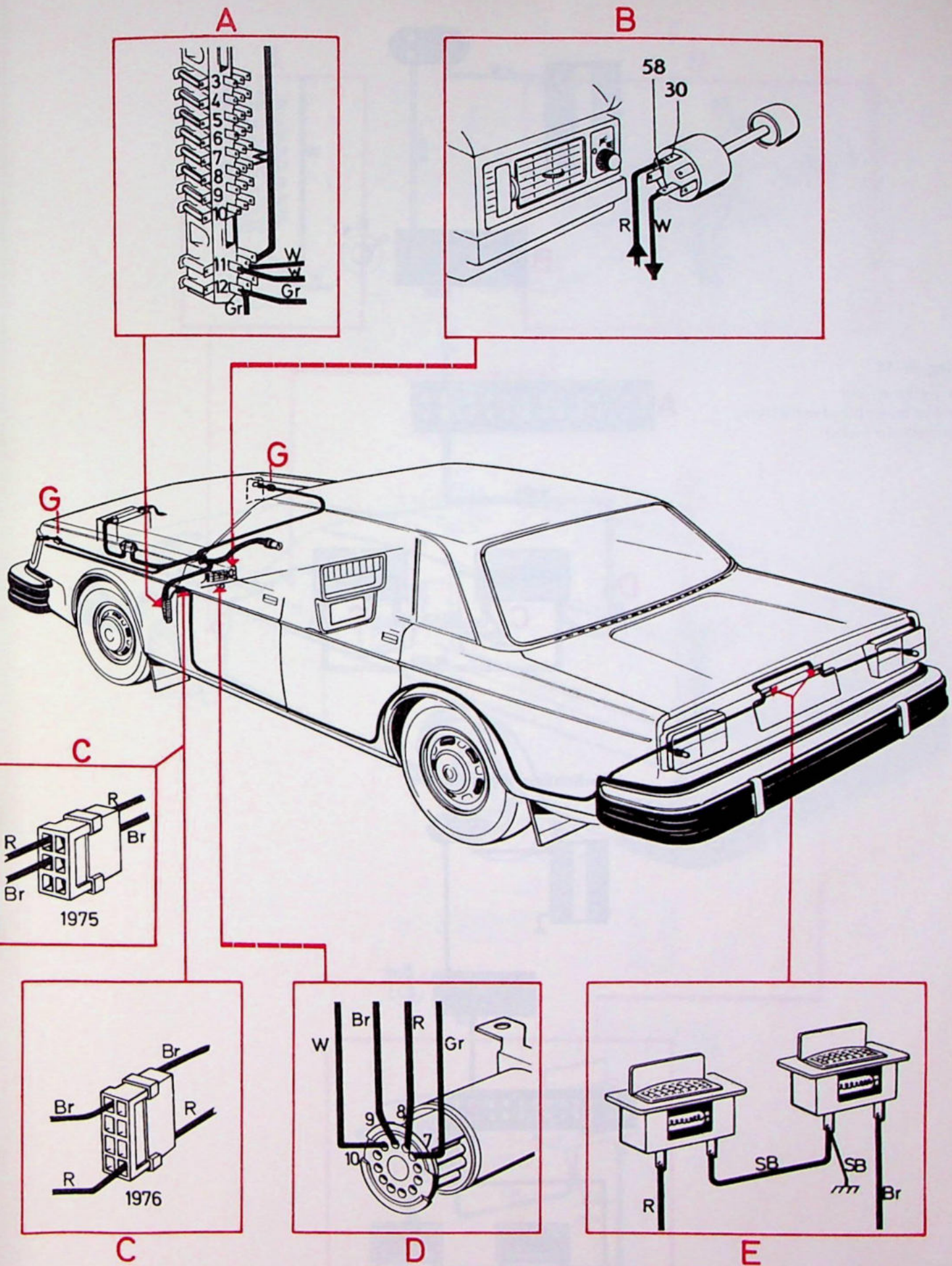
**Zekering nr 12**  
 Rechter parkeerlicht  
 Rechter kentekenplaat-  
 verlichting  
 Instrumenten- en paneel-  
 verlichting



Stads- en kentekenplaatverlichting ingeschakeld

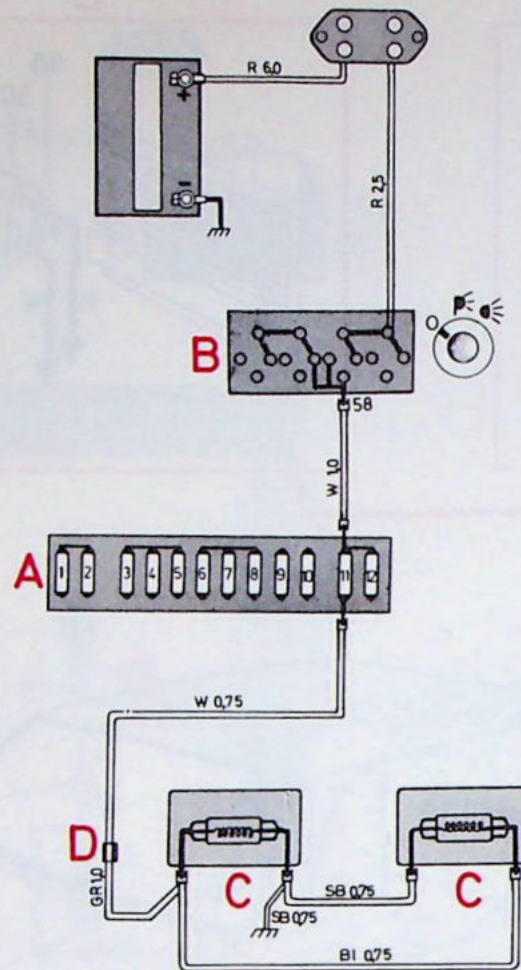


# Stads- en kentekenplaatverlichting 242/244

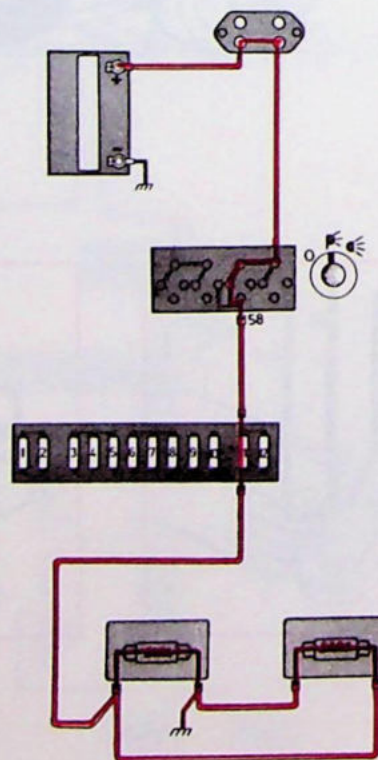


# Kentekenplaatverlichting 245

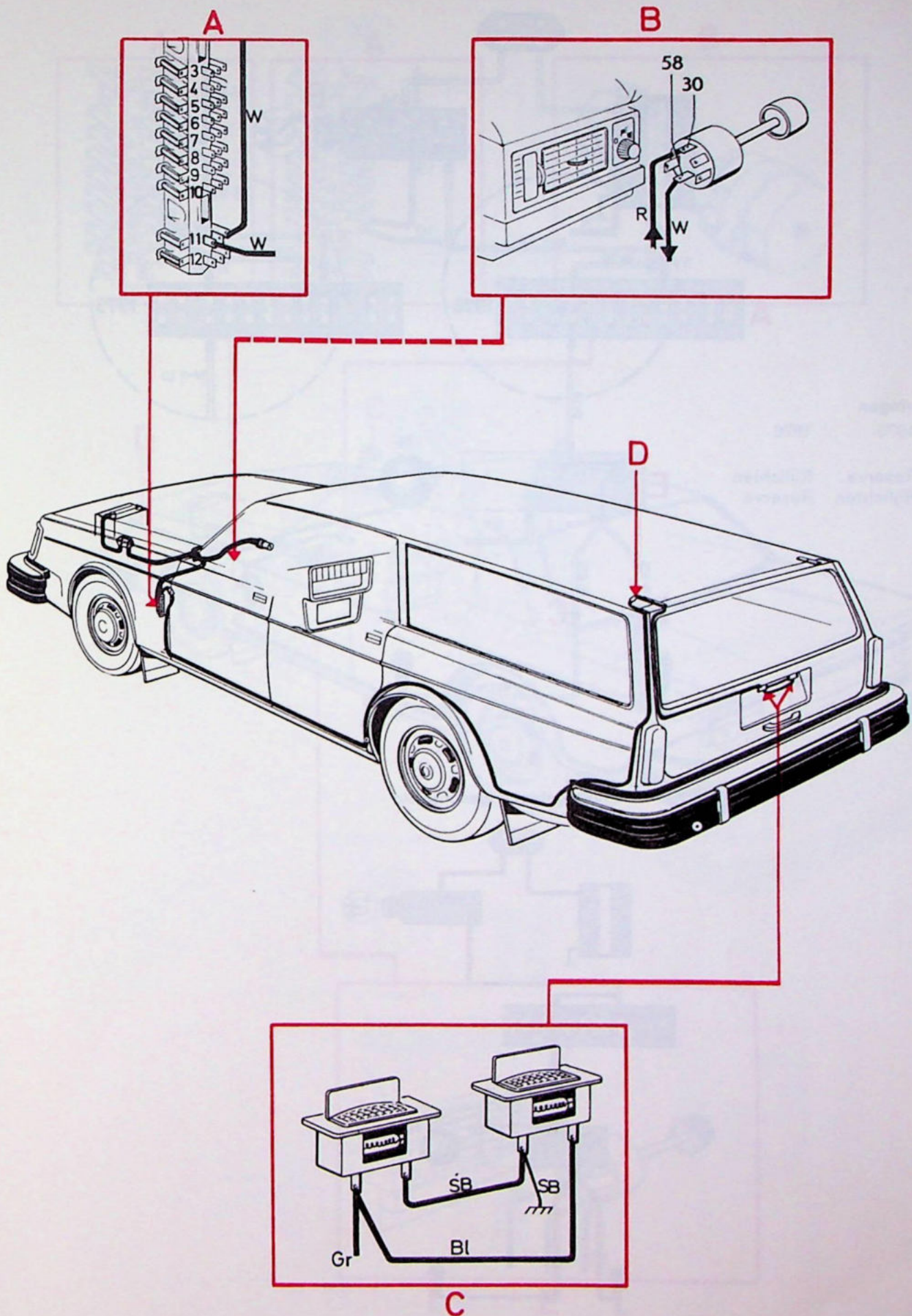
Zekering nr 11  
 Linker parkeerlicht  
 Linker kentekenplaatverlichting  
 (245: rechts en links)



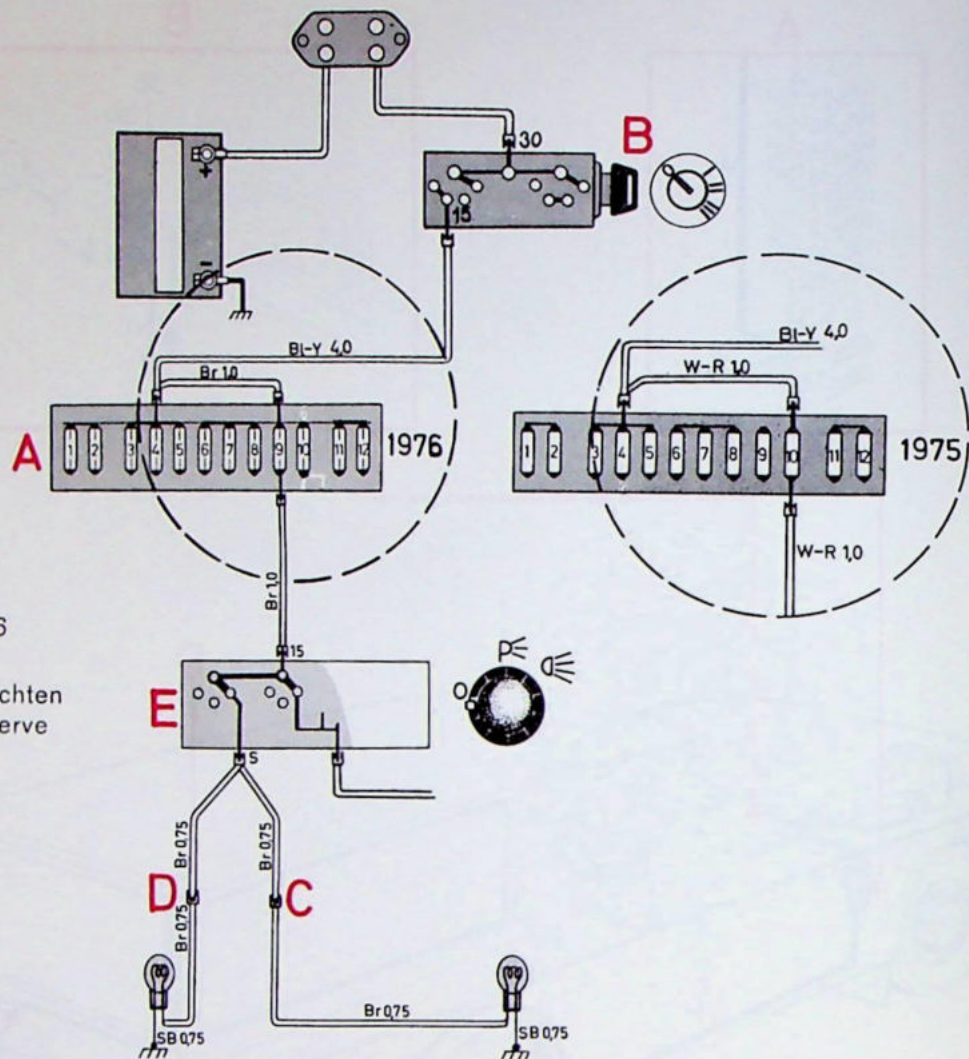
Verlichting ingeschakeld



# Kentekenplaatverlichting 245



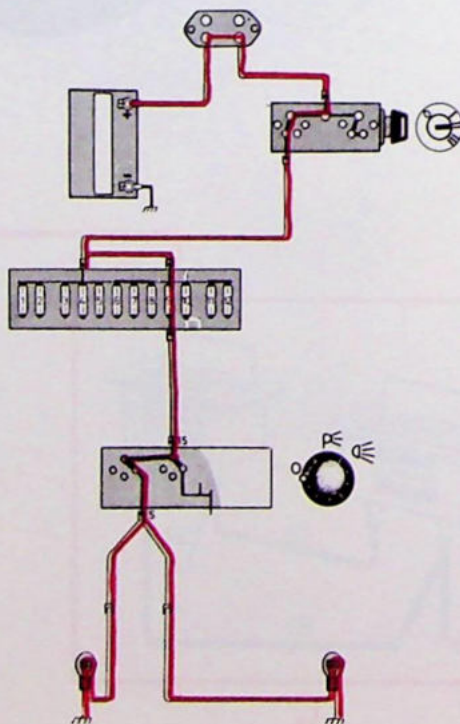
# Rijlichten



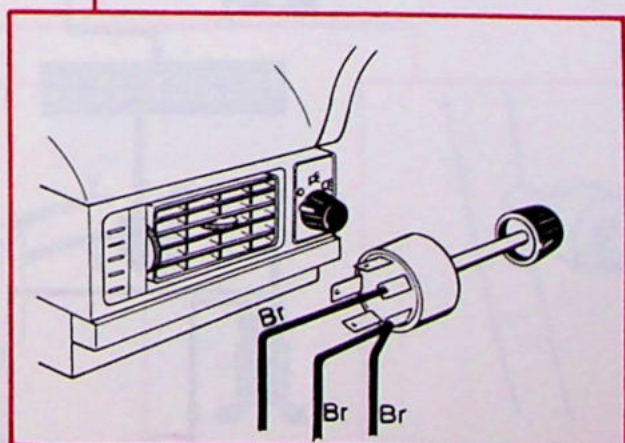
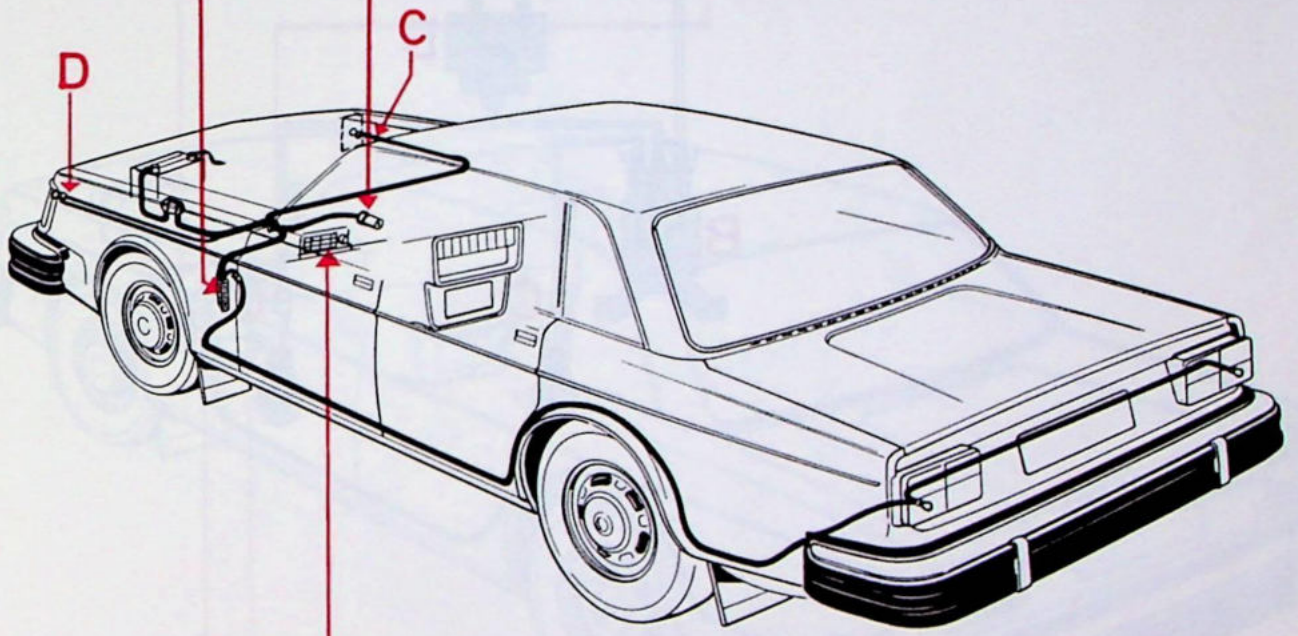
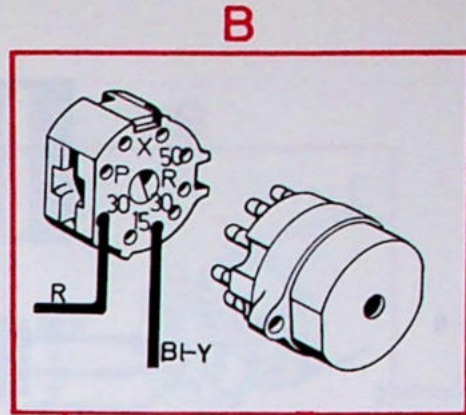
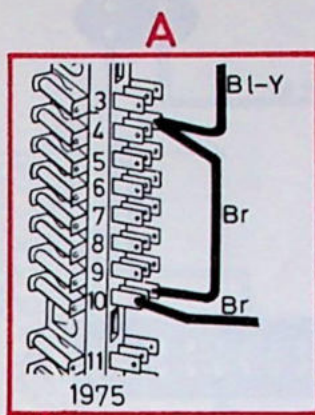
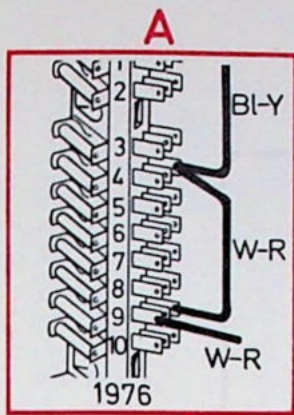
## Zekeringen

	1975	1976
Nr		
9	Reserve	Rijlichten
10	Rijlichten	Reserve

## Het contact ingeschakeld

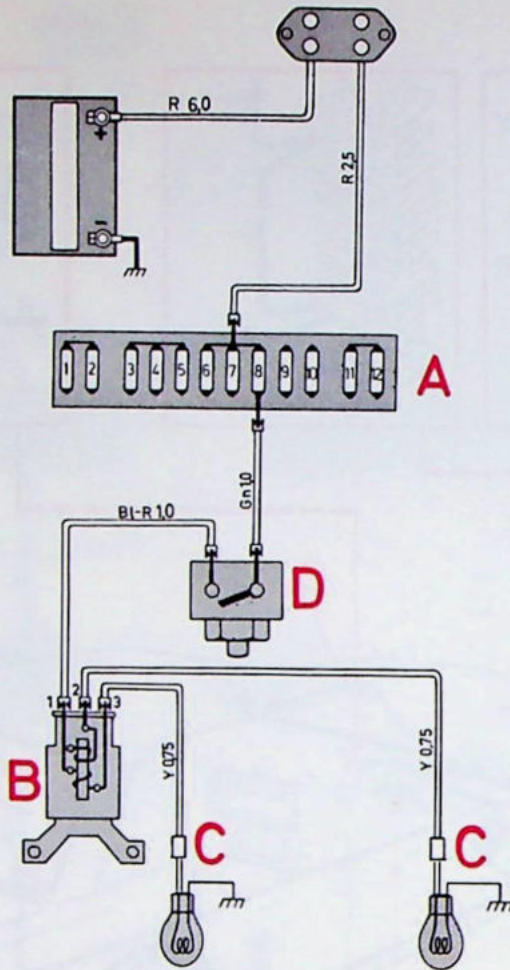


# Rijlichten

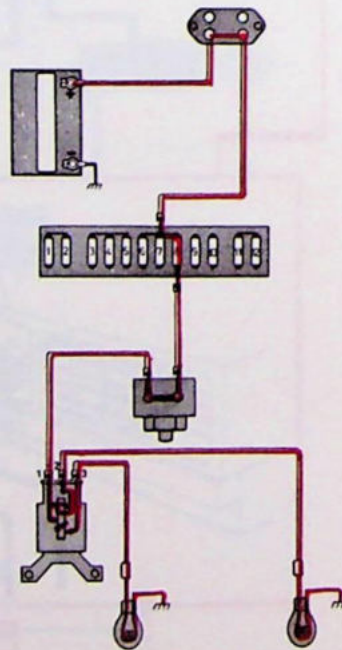


# Stoplichten

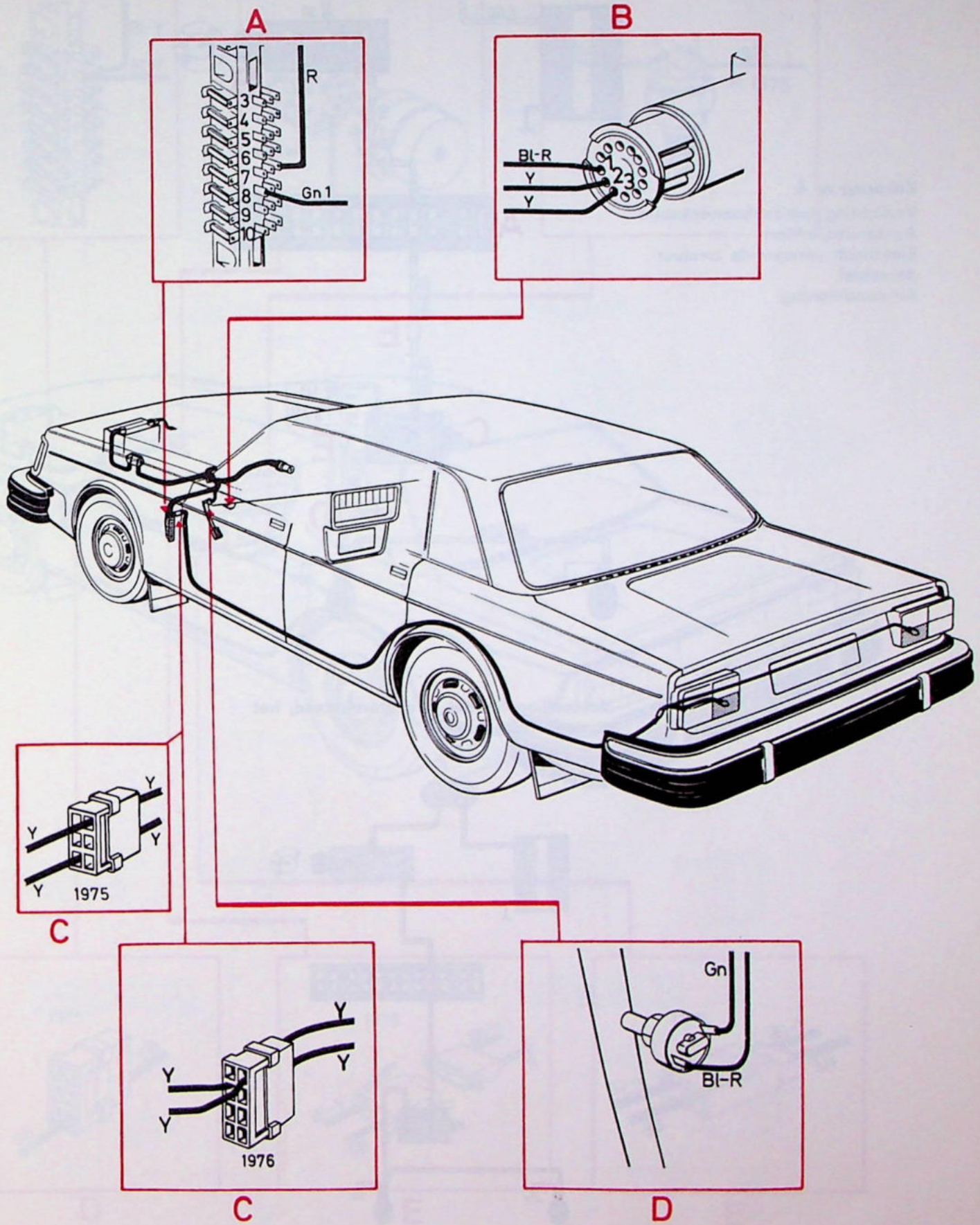
Zekering nr 8  
Remlichten  
Interieurverlichting



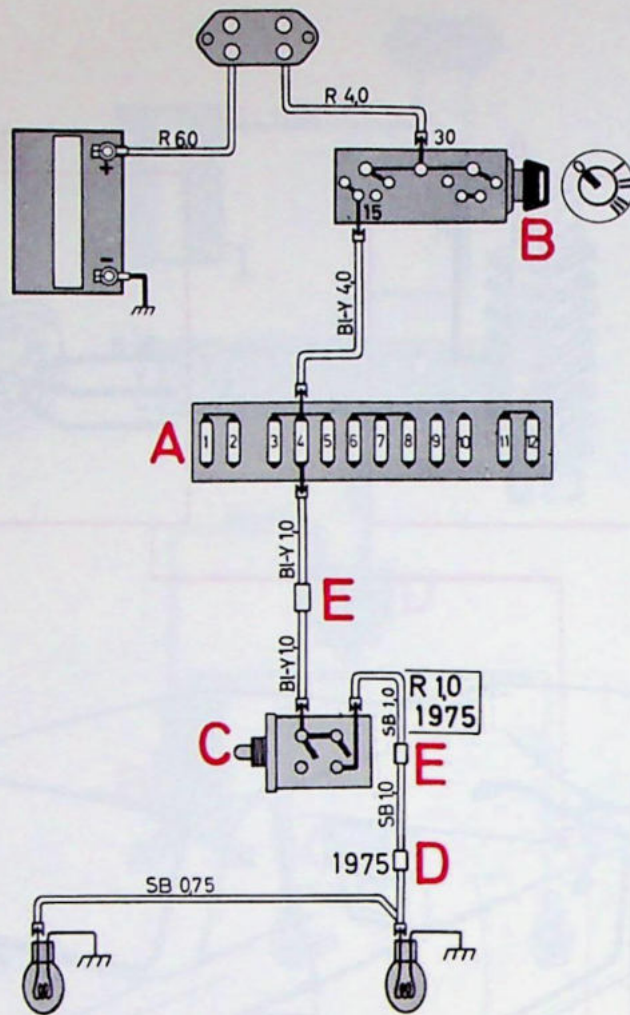
Rempedaal ingedrukt



# Stoplichter



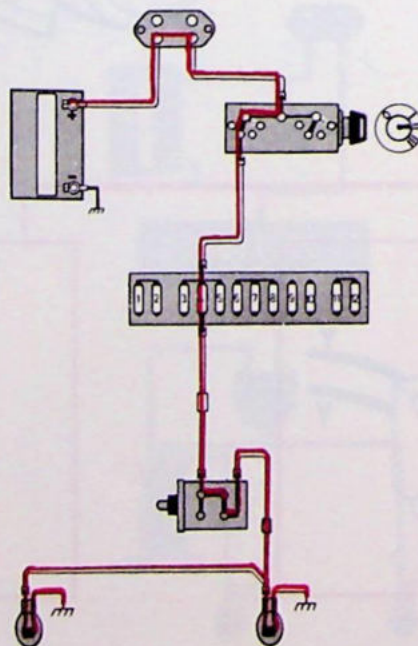
# Achteruitrijlichten, handgeschakelde versnellingsbak



## Zekering nr 4

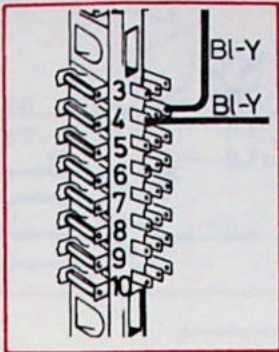
- Verlichting handschoenenkastje
- Achteruitrijlichten
- Elektrisch verwarmde bestuurdersstoel
- Air-conditioning

Versnellingshendel in achteruitstand, het contact ingeschakeld

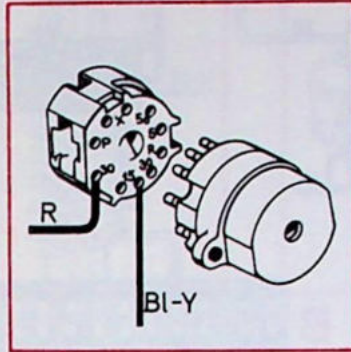


# Achteruitrijlichten, handgeschakelde versnellingsbak

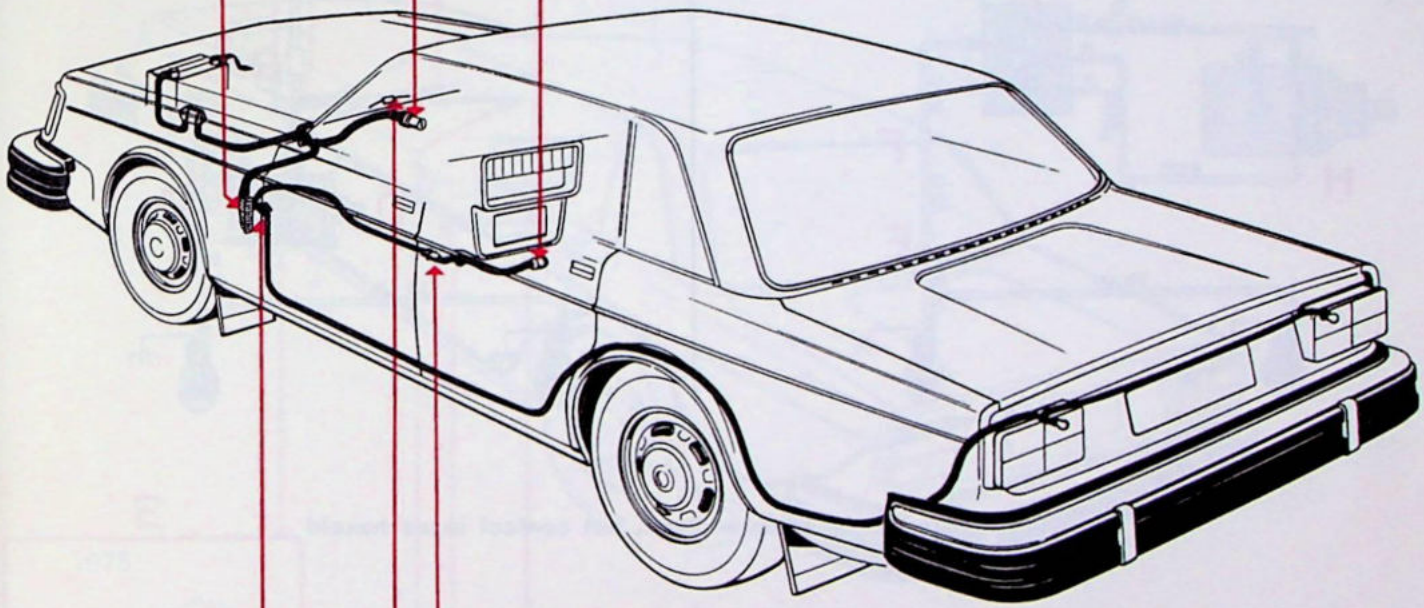
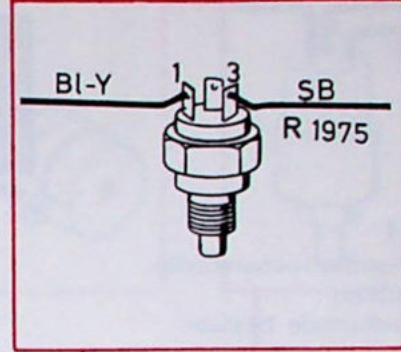
A



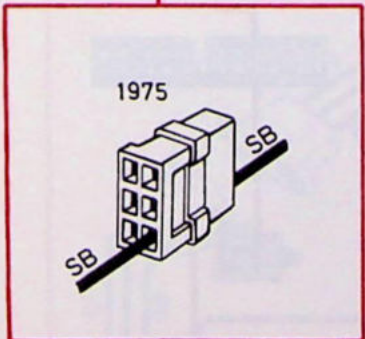
B



C

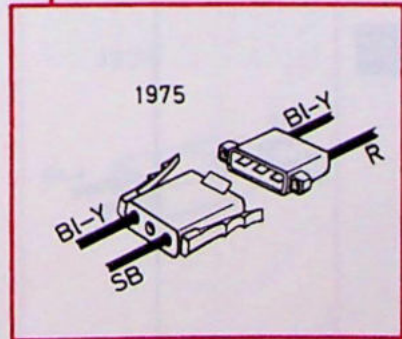


1975



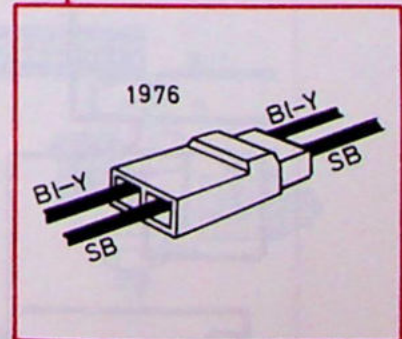
D

1975



E

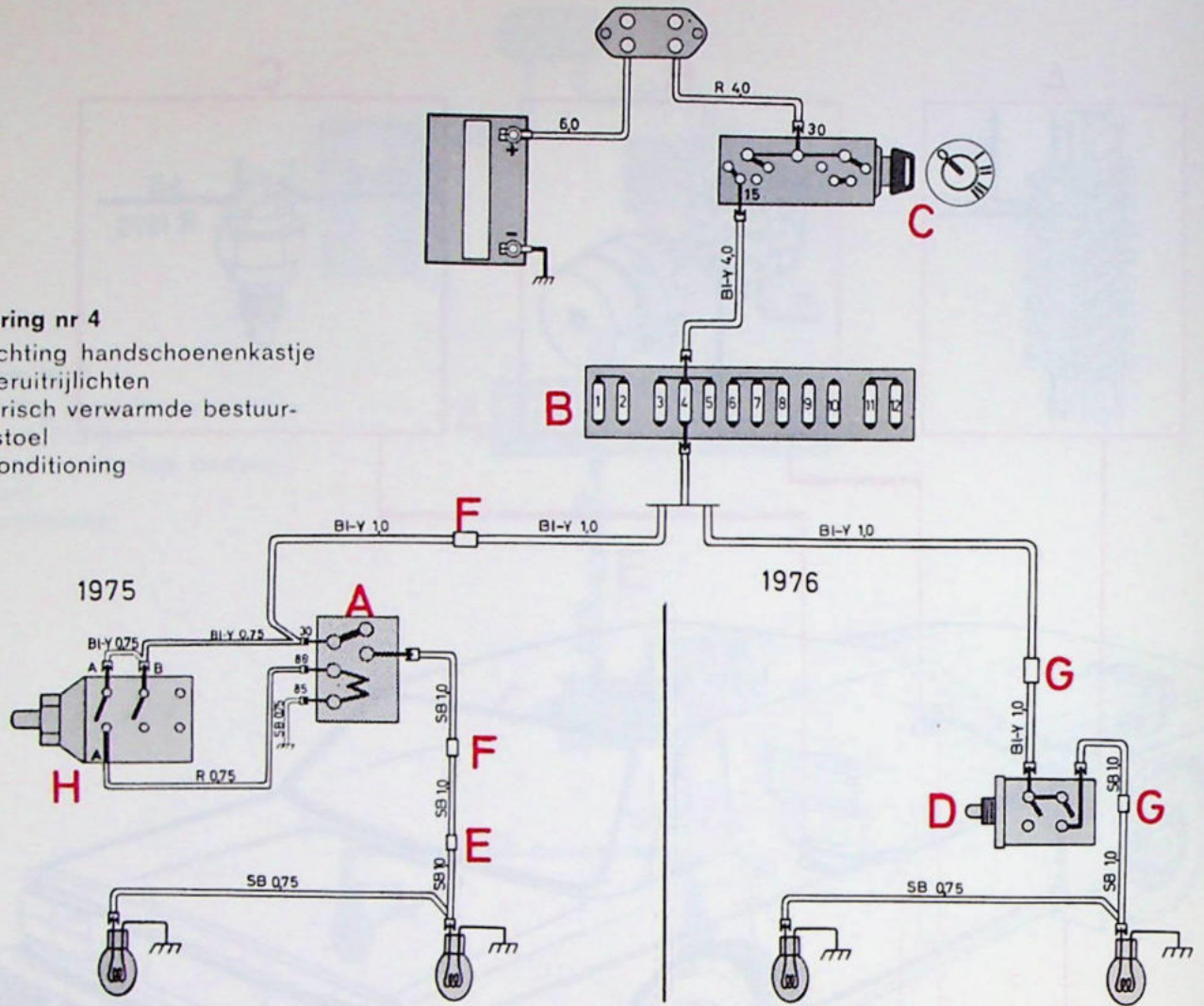
1976



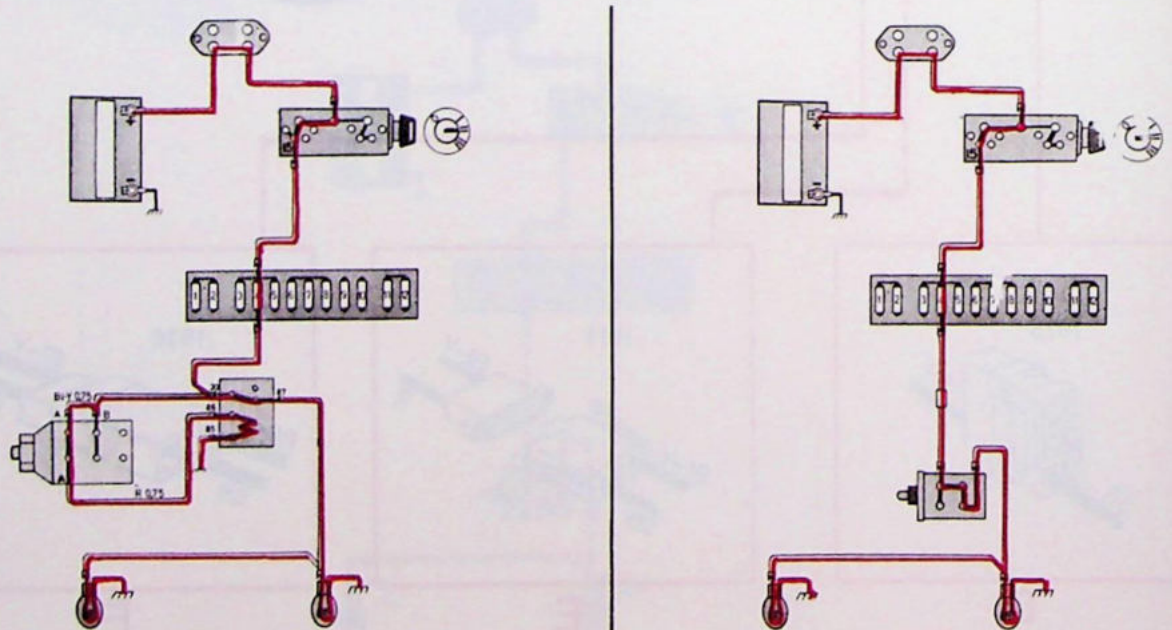
E

# Achteruitrijlichten, automatische versnellingsbak

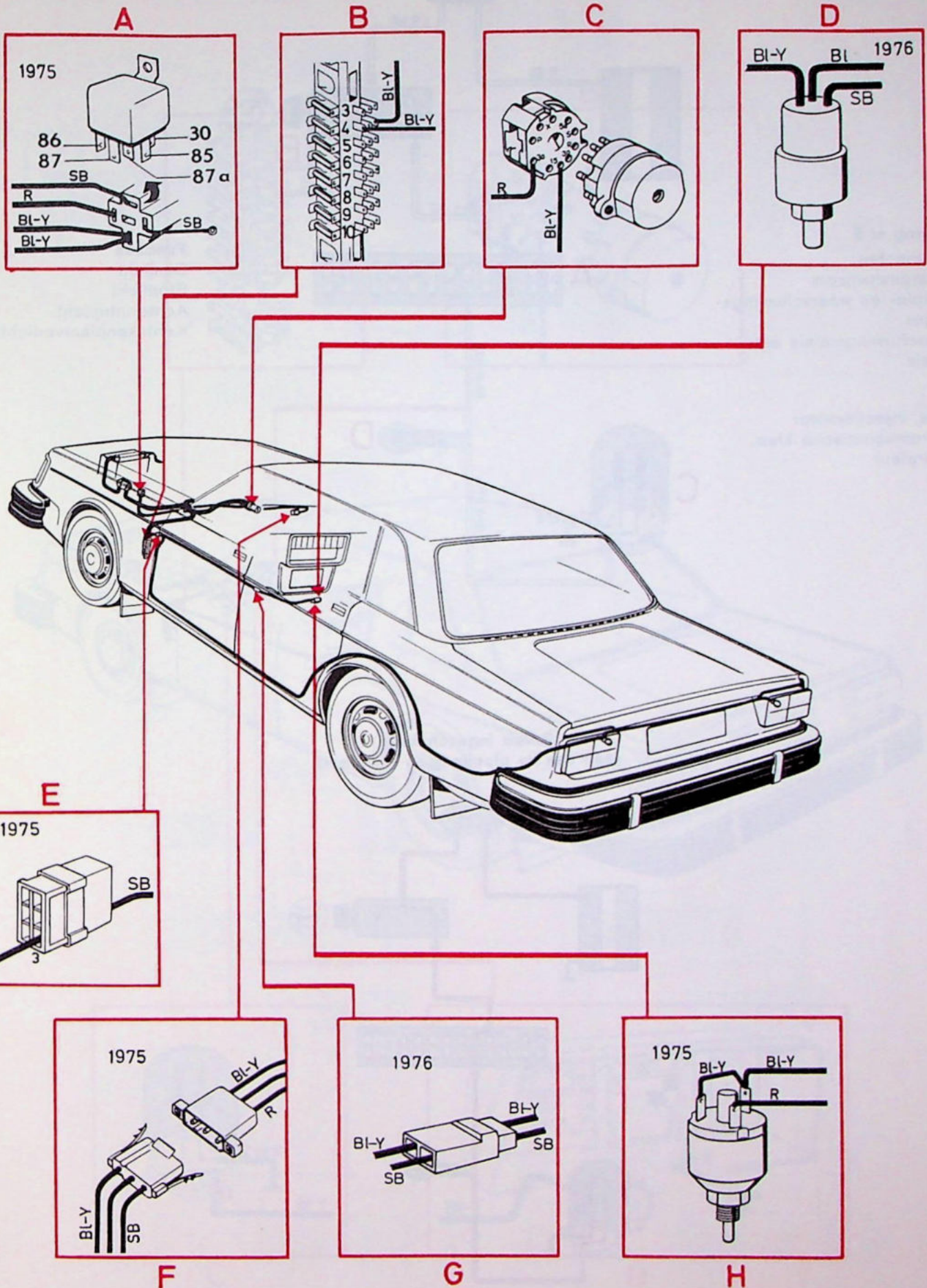
**Zekering nr 4**  
 Verlichting handschoenenkastje  
 Achteruitrijlichten  
 Elektrisch verwarmde bestuurdersstoel  
 Air-conditioning



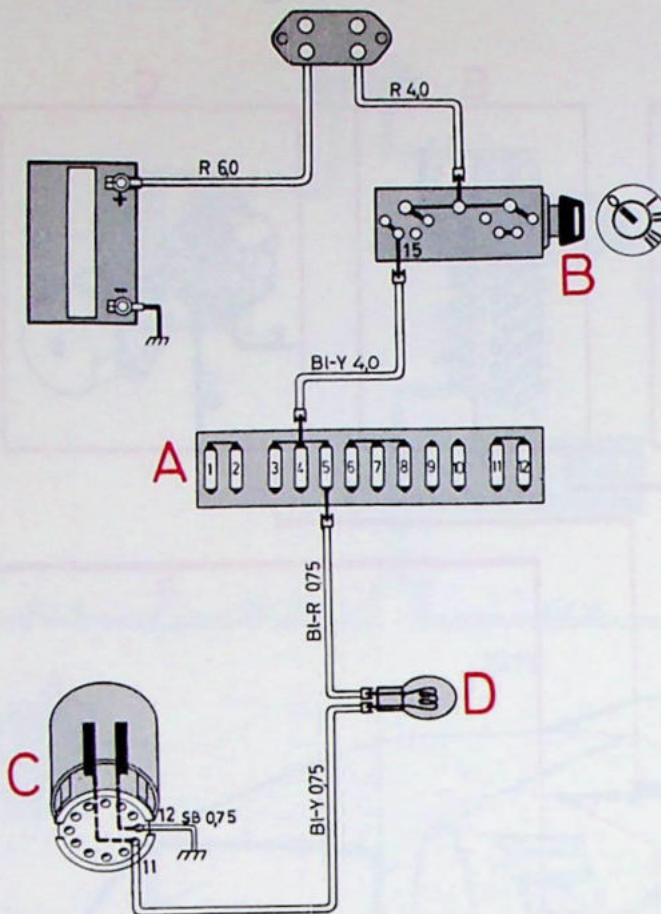
Keuzehendel in achteruitstand, het contact ingeschakeld



# Achteruitrijlichten, automatische versnellingsbak



# Relais voor waarschuingslampje defecte gloeilampen



## Zekering nr 5

Instrumenten  
 Richtingaanwijzers  
 Controle- en waarschuings-  
 lampjes  
 Waarschuingsrelais auto-  
 gordels

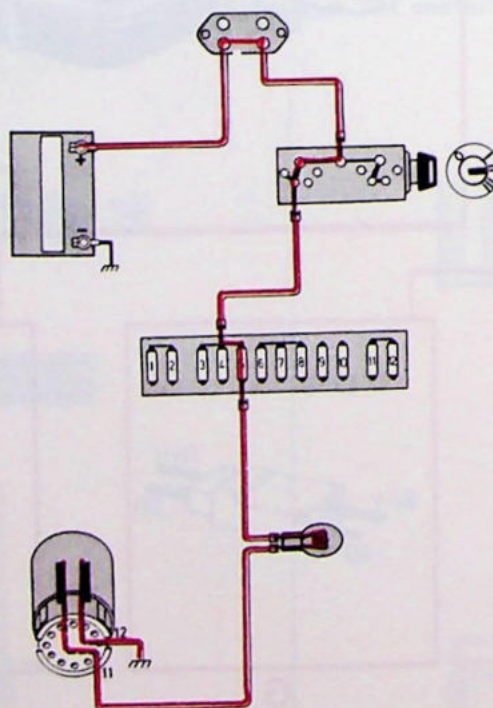
1976

Relais, injectiemotor  
 Elektromagnetische klep,  
 carburateur

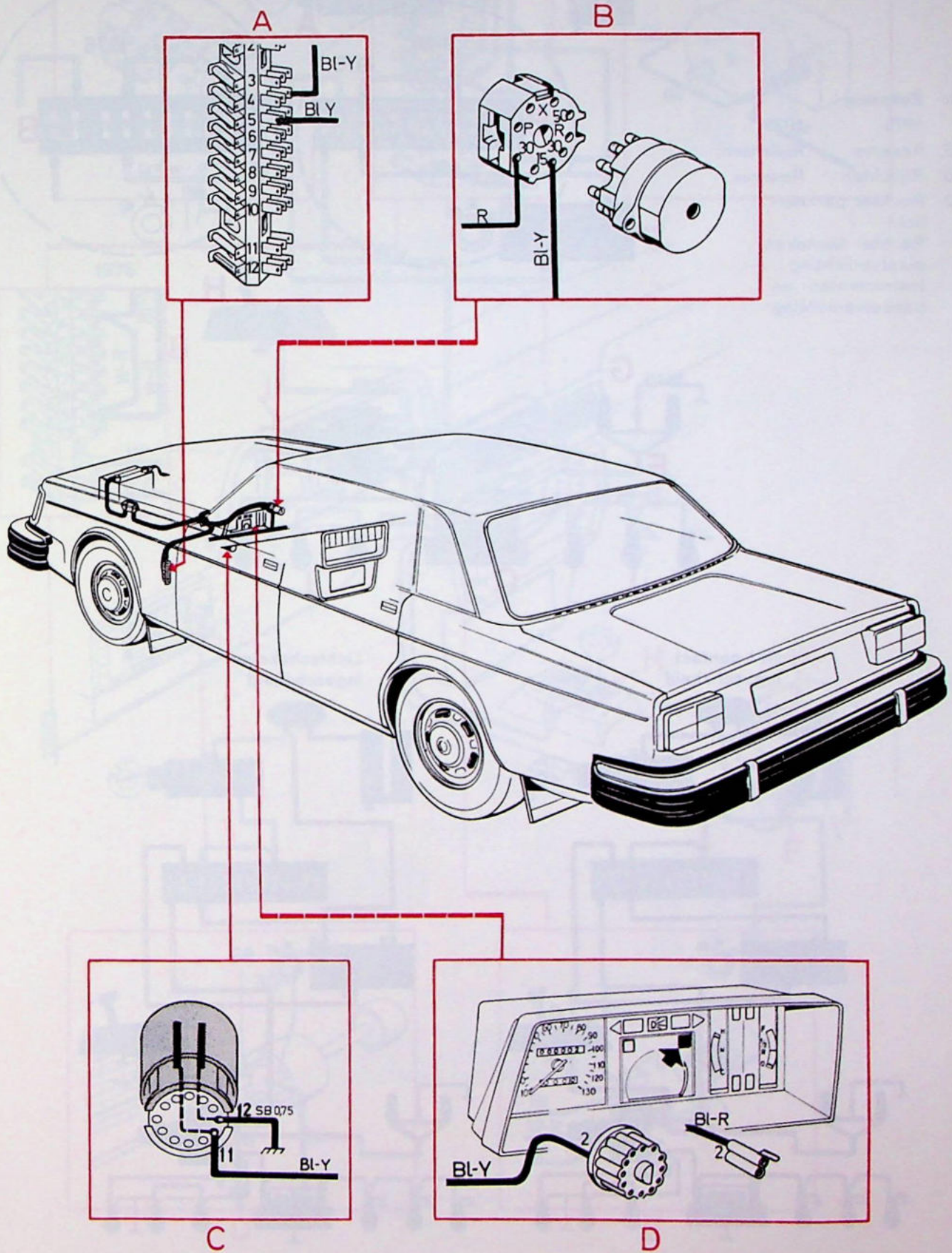
## Functies

Dimlicht  
 Stoplicht  
 Achteruitrijlicht  
 Kentekenplaatverlichting

Relais ingeschakeld  
 (één van de gloeilampen is defect)

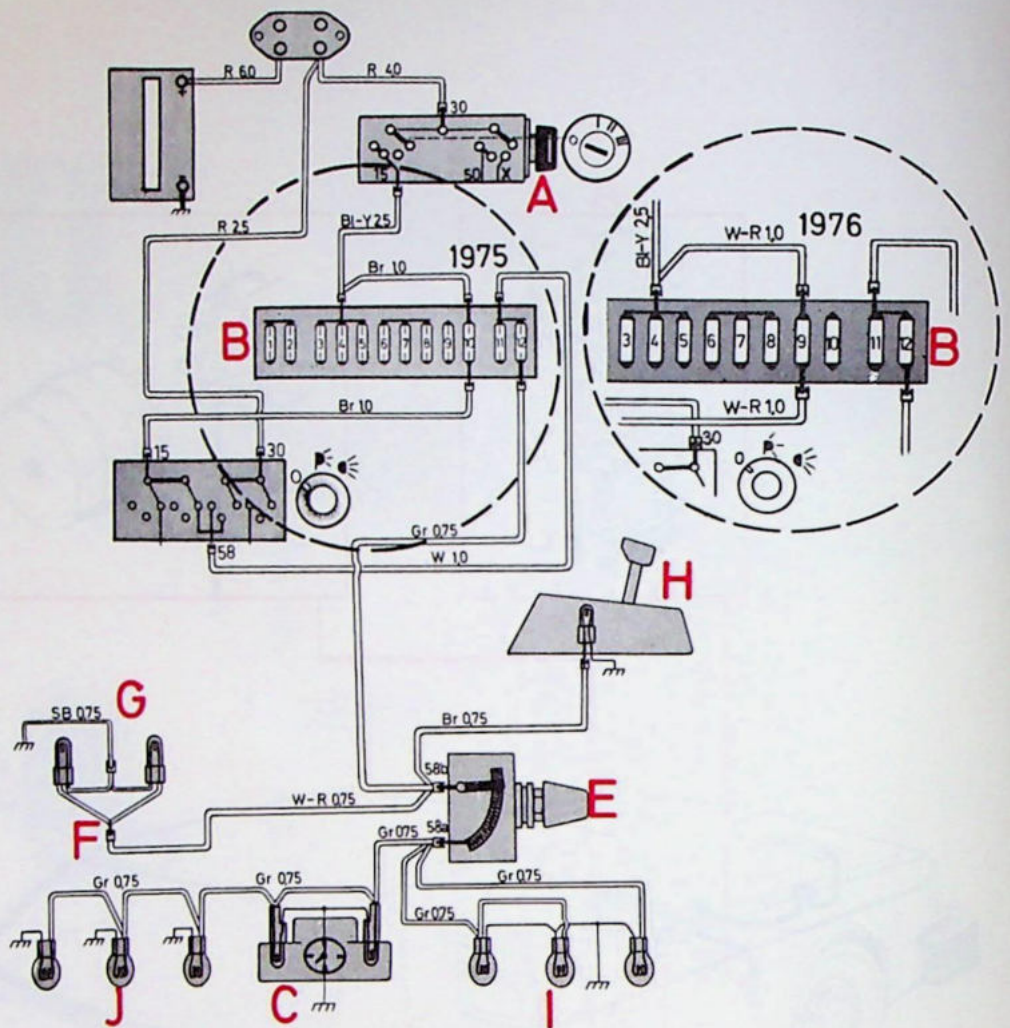


# Relais voor waarschuwingslampje defecte gloeilampen

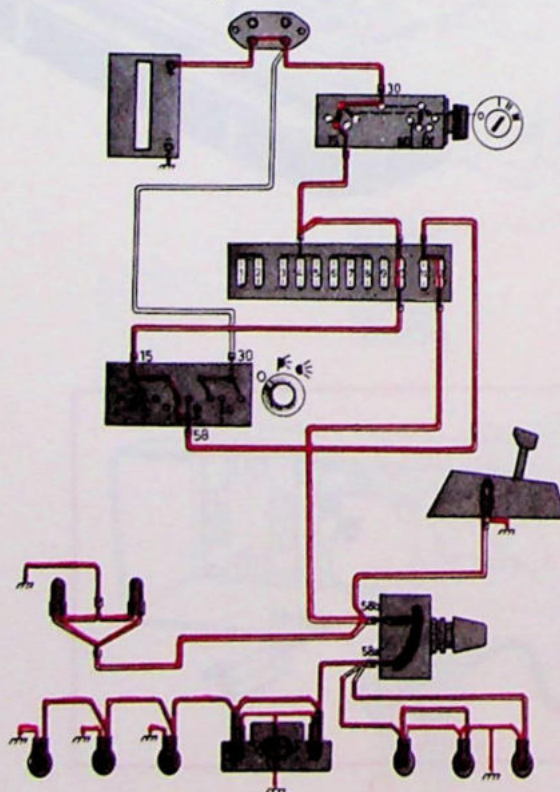


# Verlichting instrumenten en bedieningsorganen

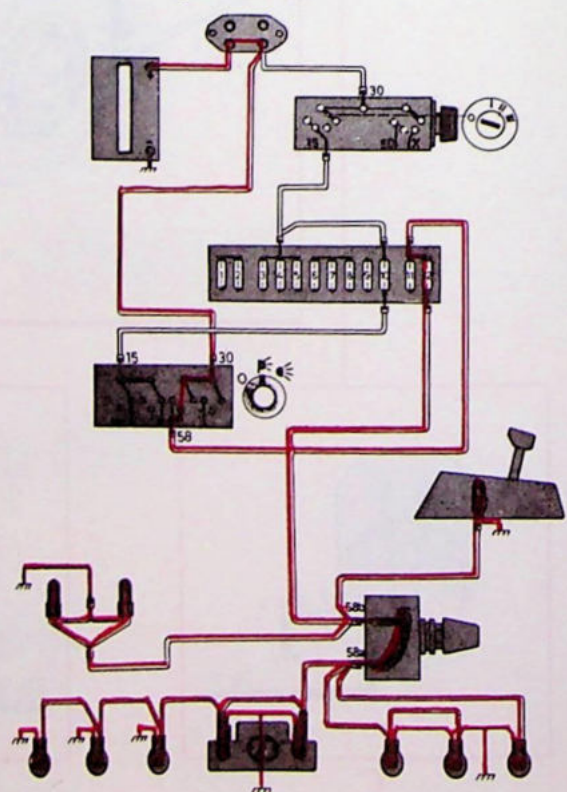
Nr	Zekering	1975	1976
9	Reserve	Rijlichten	
10	Rijlichten	Reserve	
12	Rechter parkeerlicht		
		Rechter kentekenplaatverlichting	
		Instrumenten- en paneelverlichting	



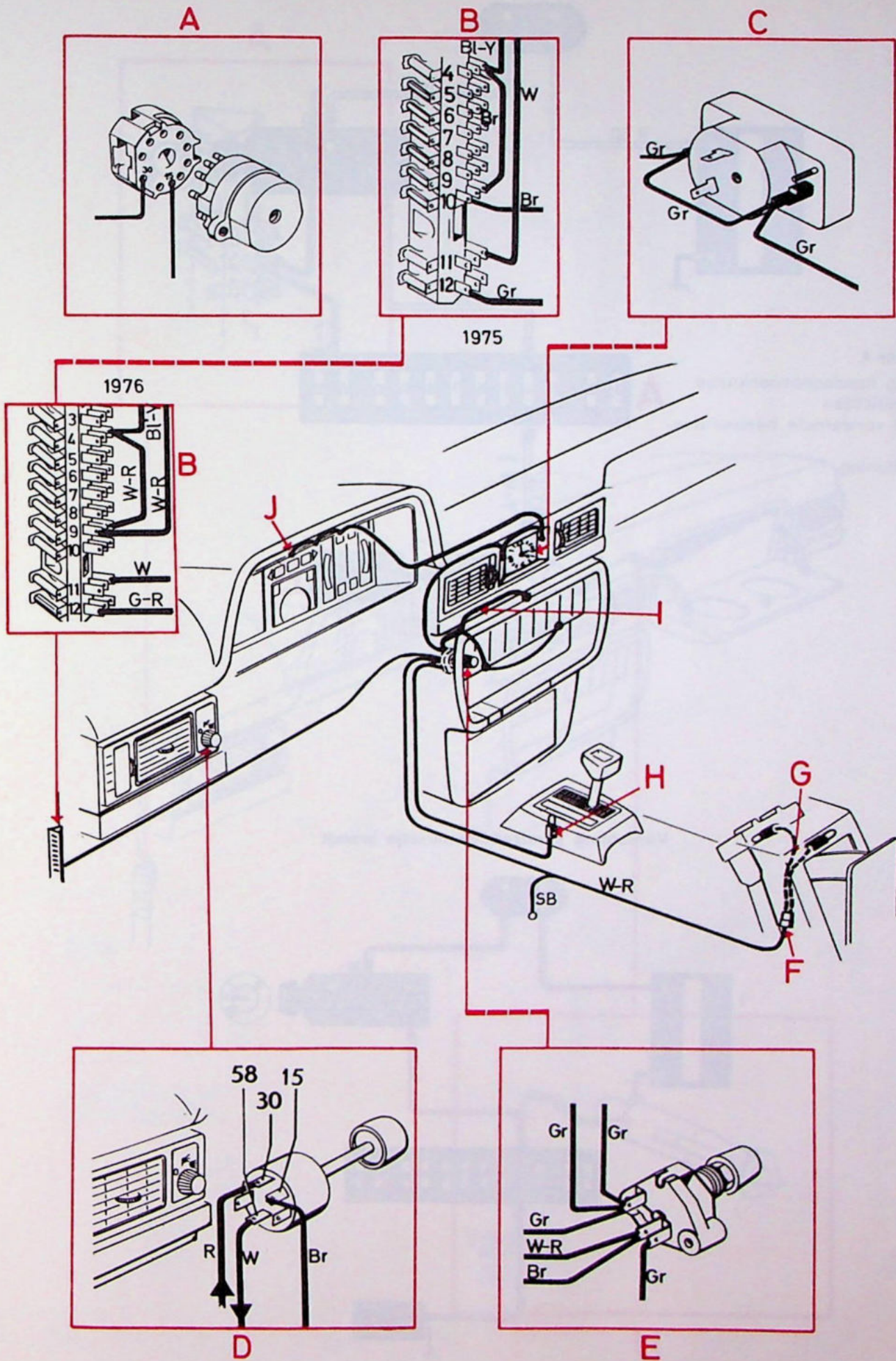
Het contact ingeschakeld



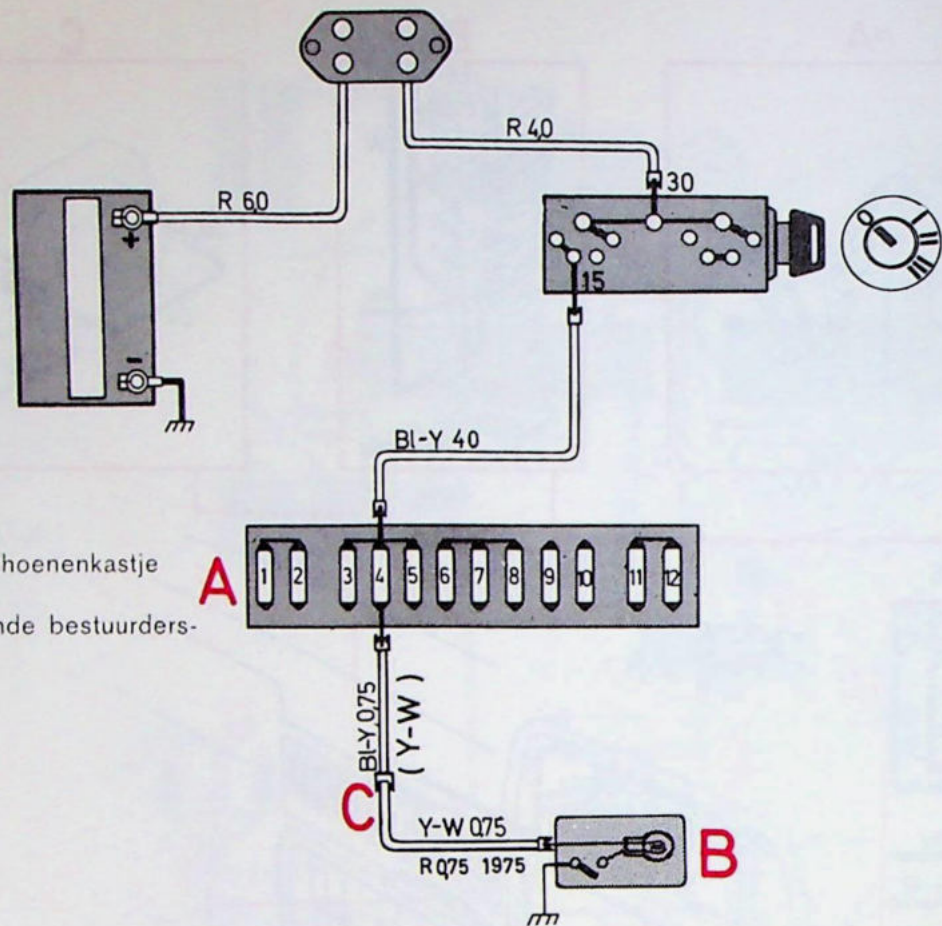
Lichtschakelaar ingeschakeld



# Verlichting instrumenten en bedieningsorganen



# Verlichting handschoenenkastje



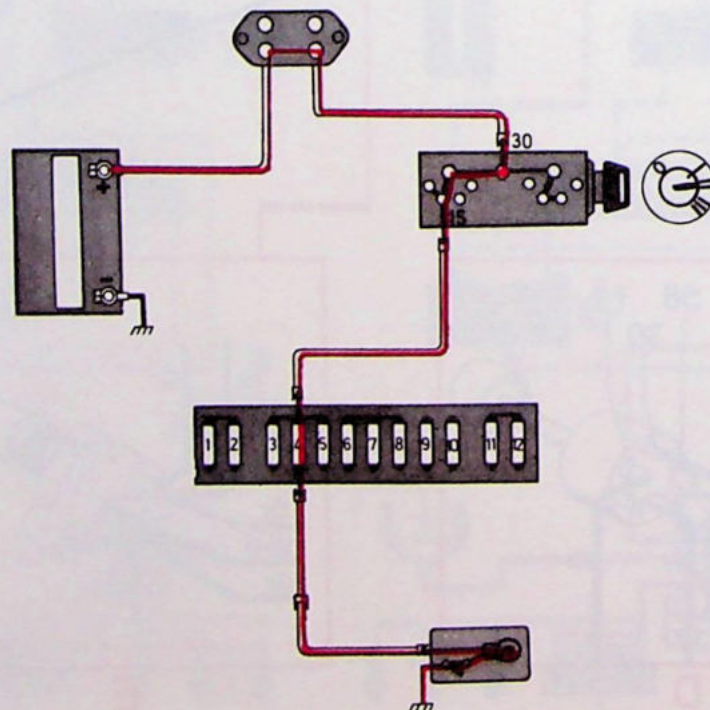
## Zekering nr 4

Verlichting handschoenenkastje  
 Achteruitrijlichten  
 Elektrisch verwarmde bestuurders-  
 stoel  
 Air-conditioning

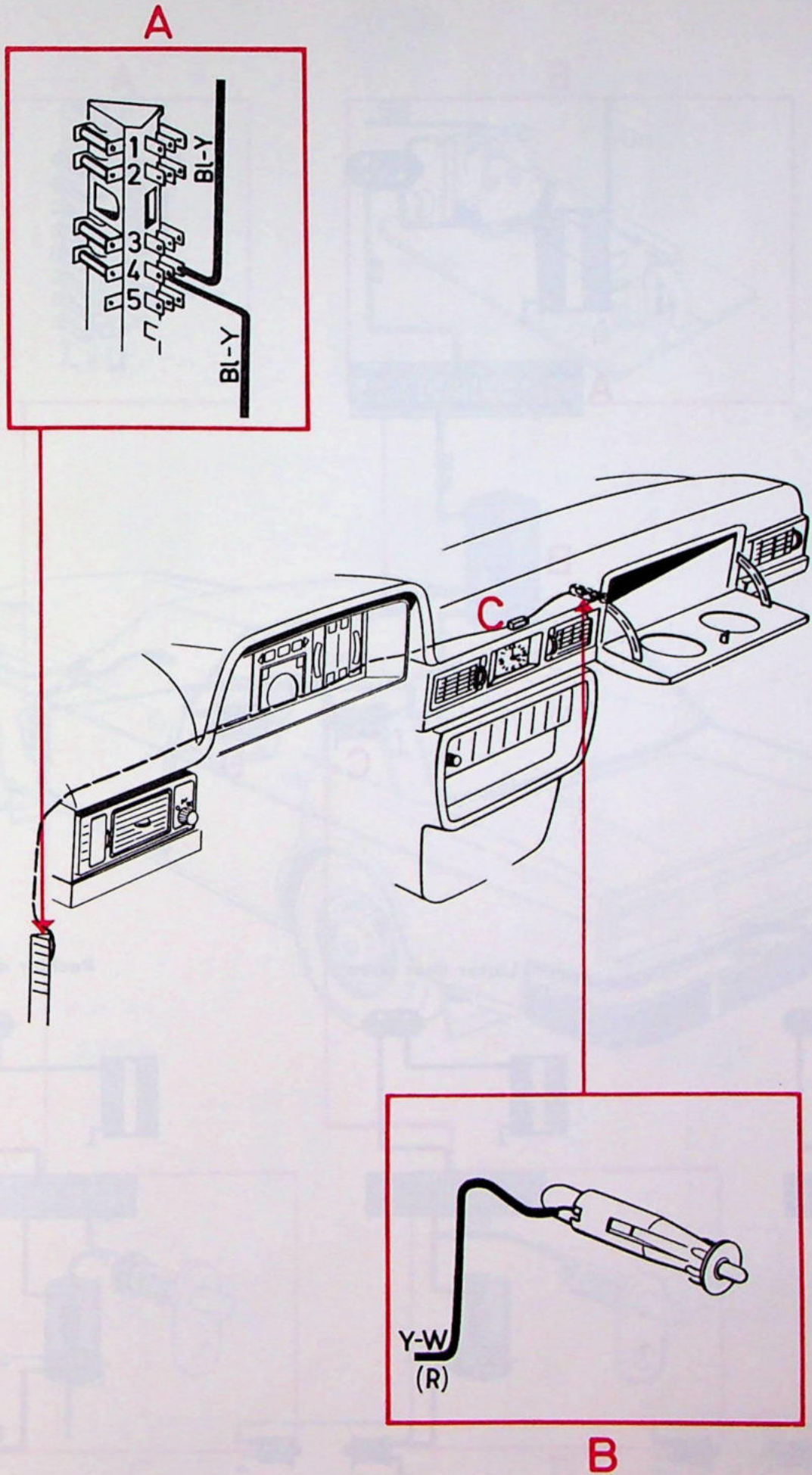
**A**

**B**

## Verlichting handschoenenkastje brandt

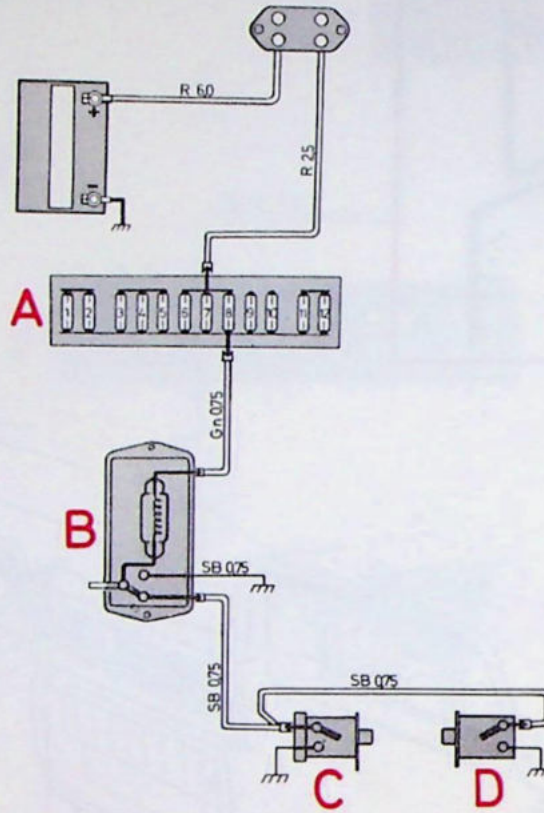


# Verlichting handschoenenkastje

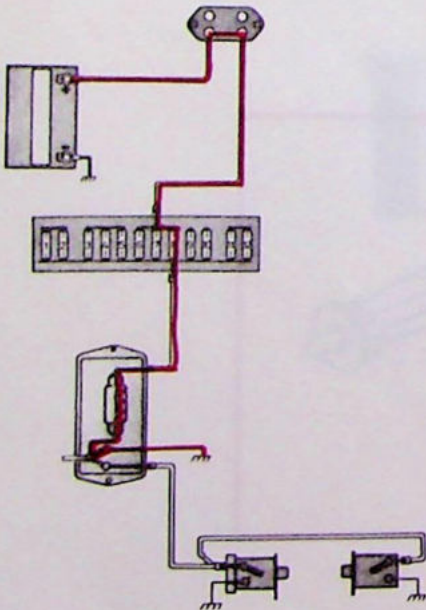


# Interieurverlichting

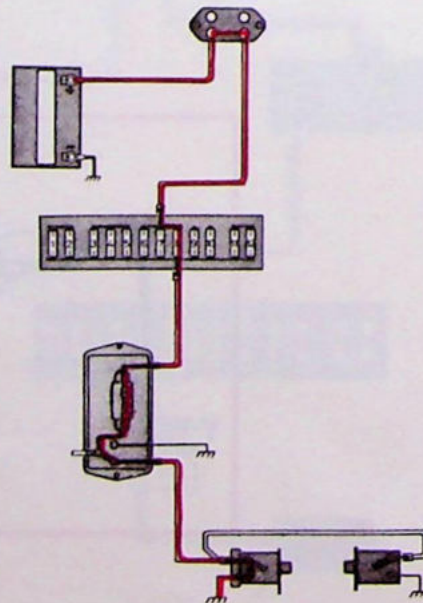
Zekering nr 8  
 Stoplichten  
 Interieurverlichting



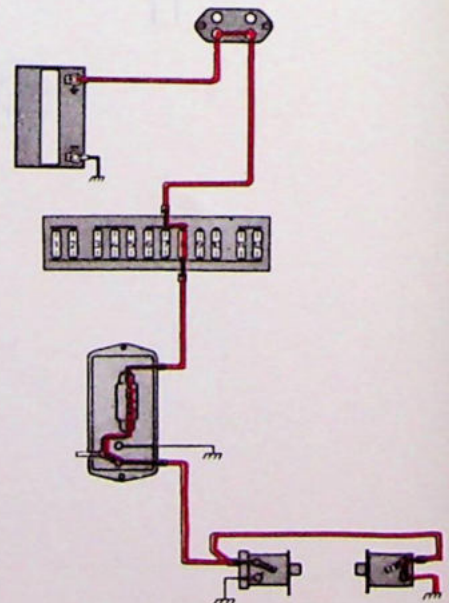
Deuren gesloten  
 Binnenverlichting  
 brandt



Linker deur open

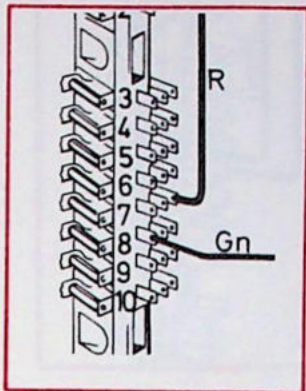


Rechter deur open

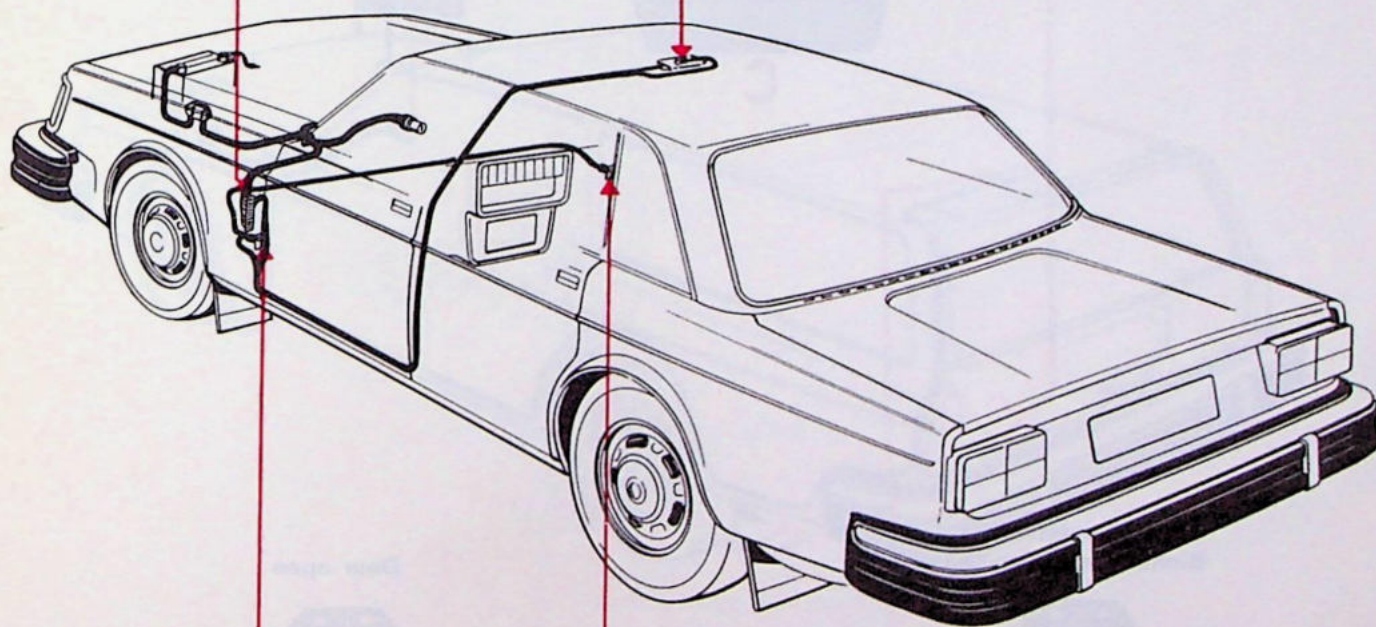
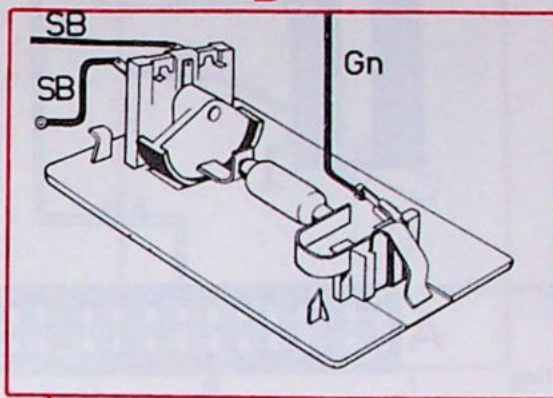


# Interieurverlichting

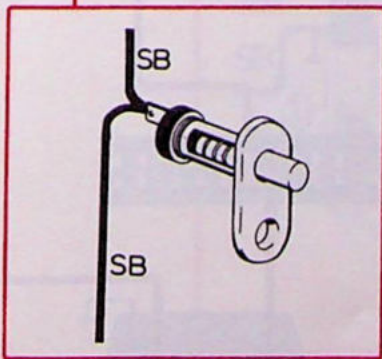
A



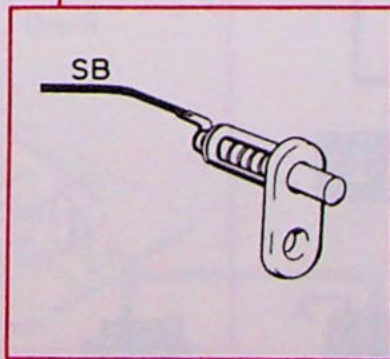
B



C

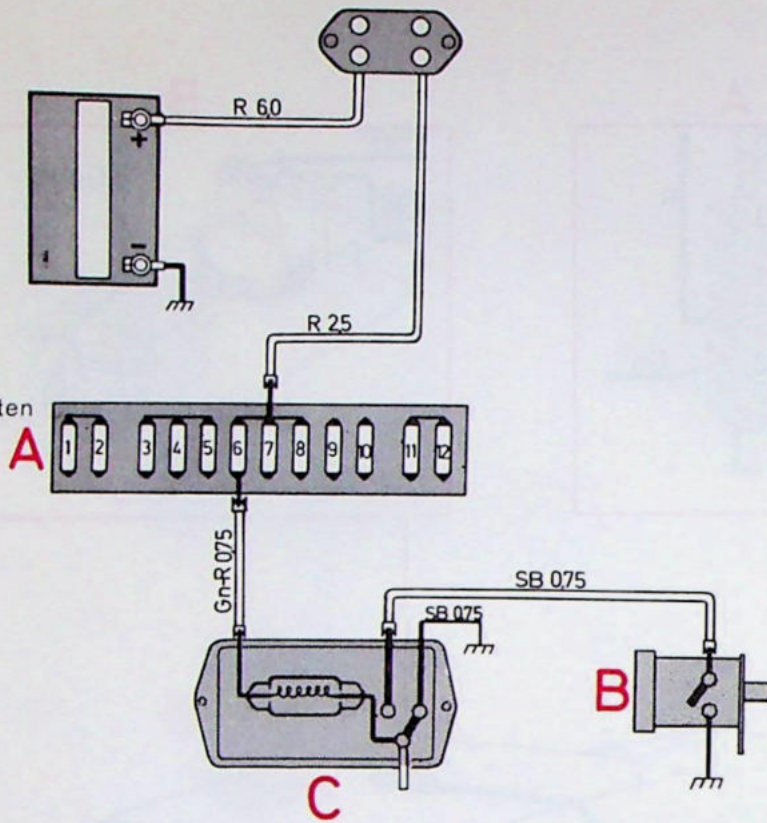


D

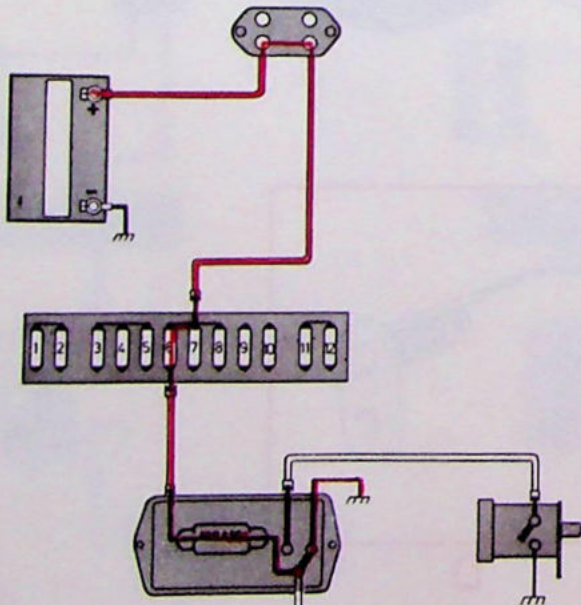


# Interieurverlichting, 245 achter

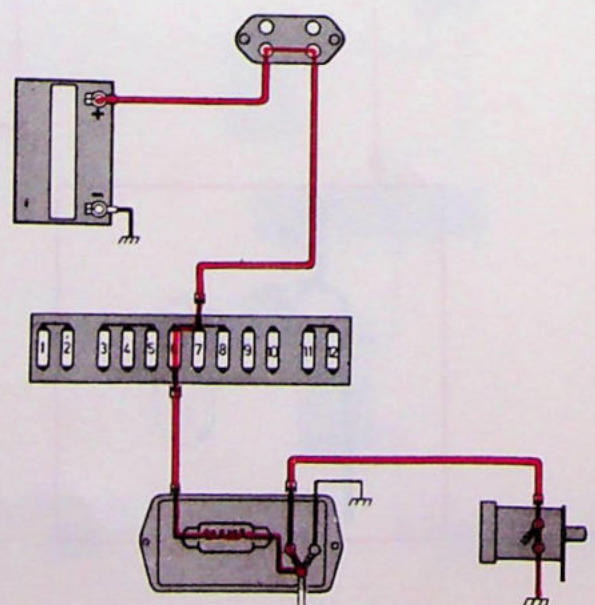
Zekering nr 6  
 Waarschuingsknipperlichten  
 Achterste interieur-  
 verlichting (245)  
 Motorruimteverlichting



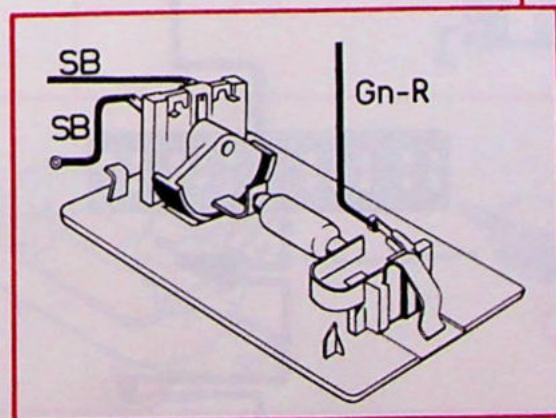
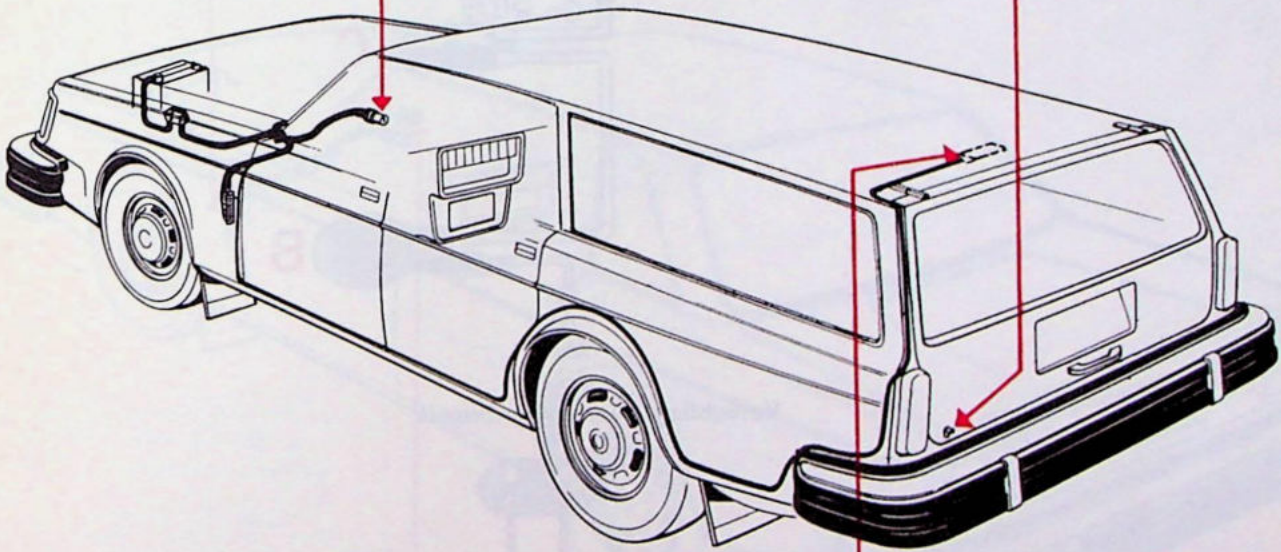
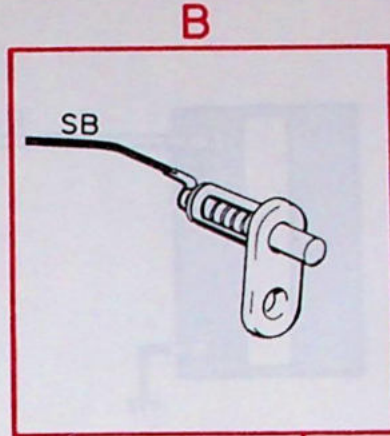
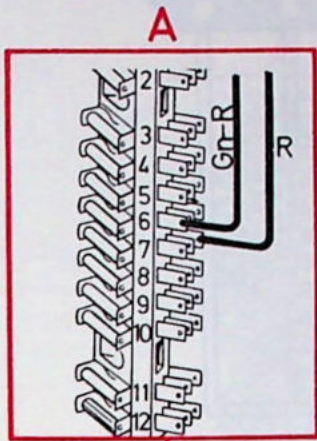
Deur gesloten  
 Binnenverlichting brandt



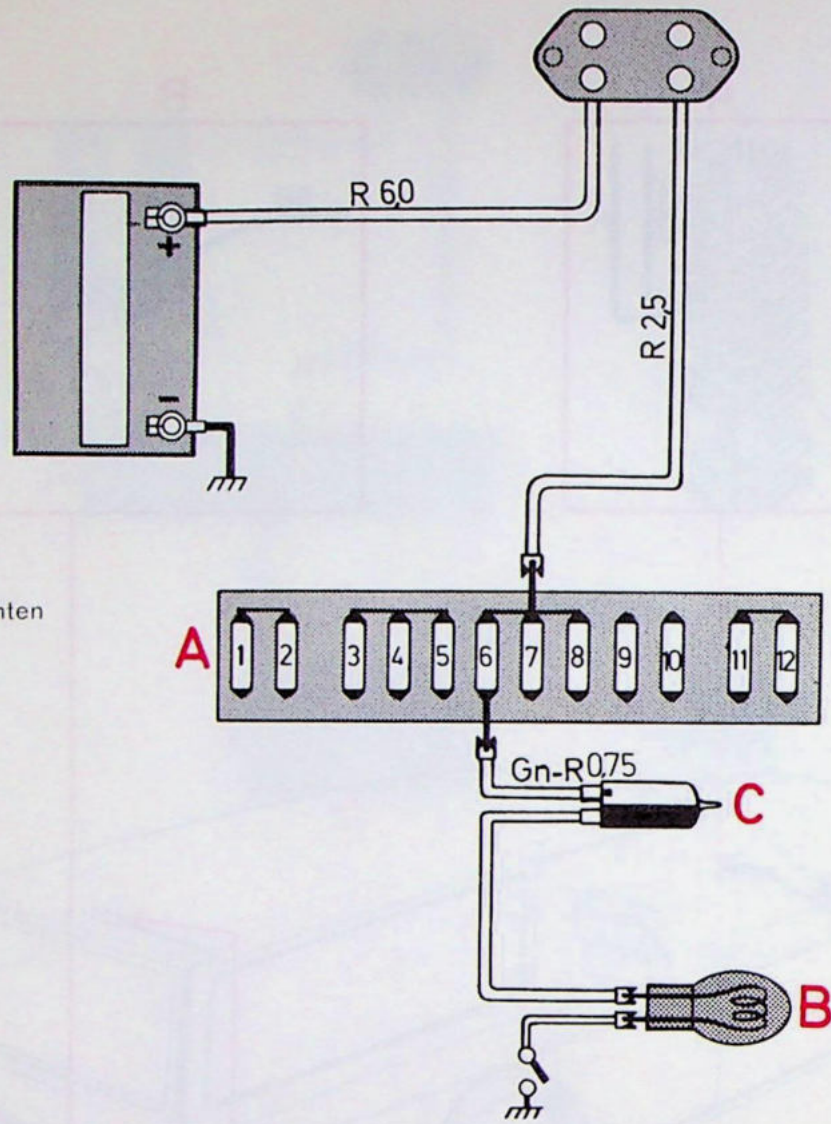
Deur open



# Interieurverlichting, 245 achter

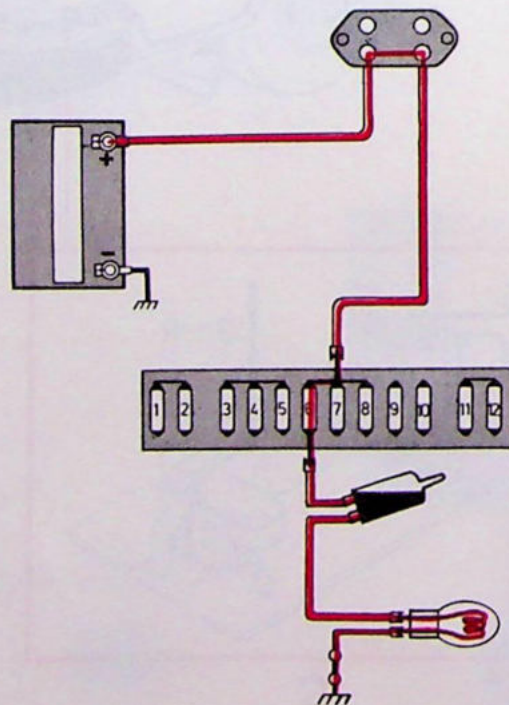


# Motorruimteverlic

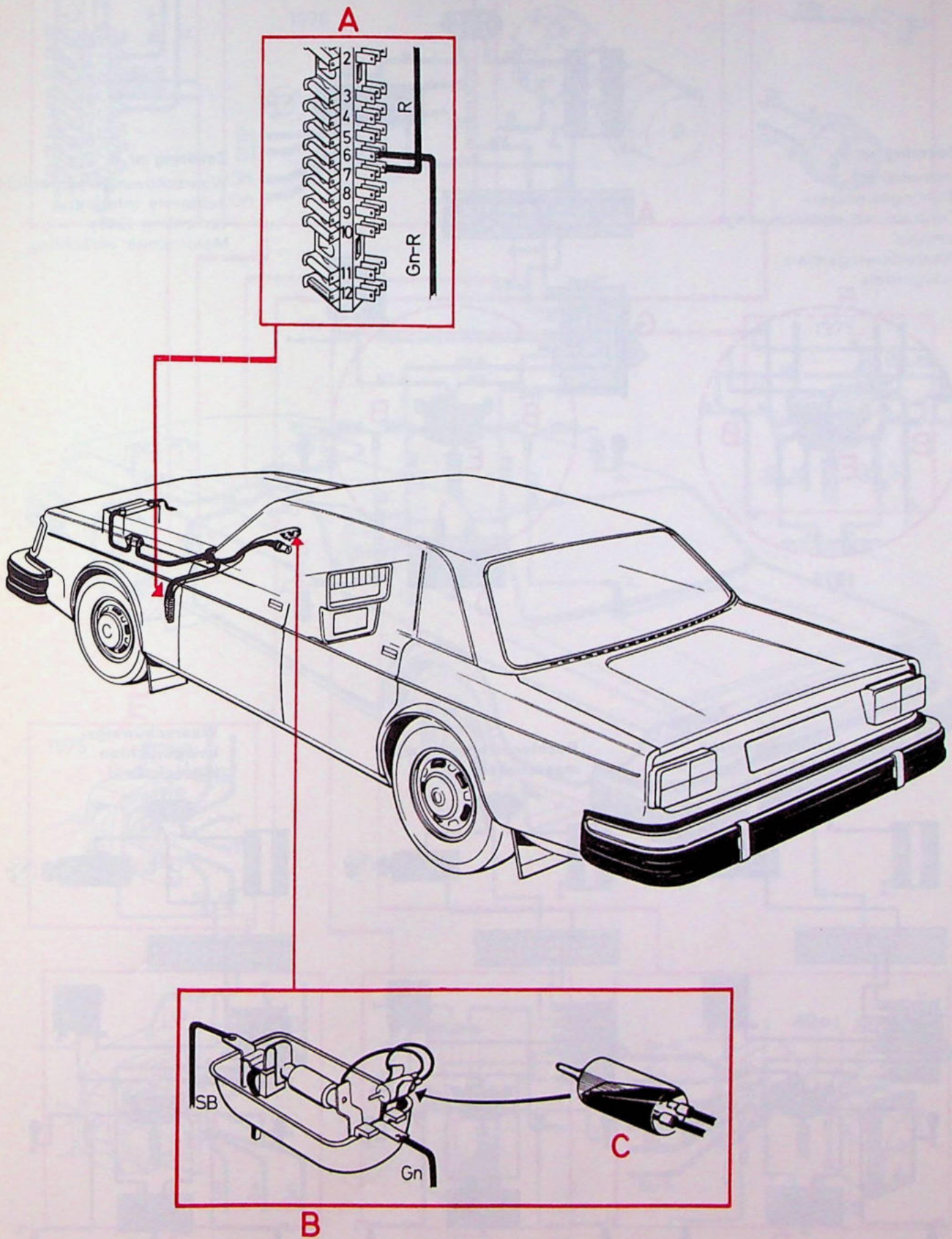


Zekering nr 6  
Waarschuwingsknipperlichten  
Achterste interieur-  
verlichting (245)  
Motorruimteverlichting

Verlichting motorruimte brandt



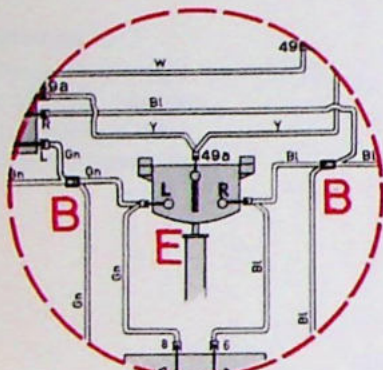
# Motorruimteverlichting



# Richtingaanwijzers en waarschuwingsknipperlichten

## Zekering nr 5

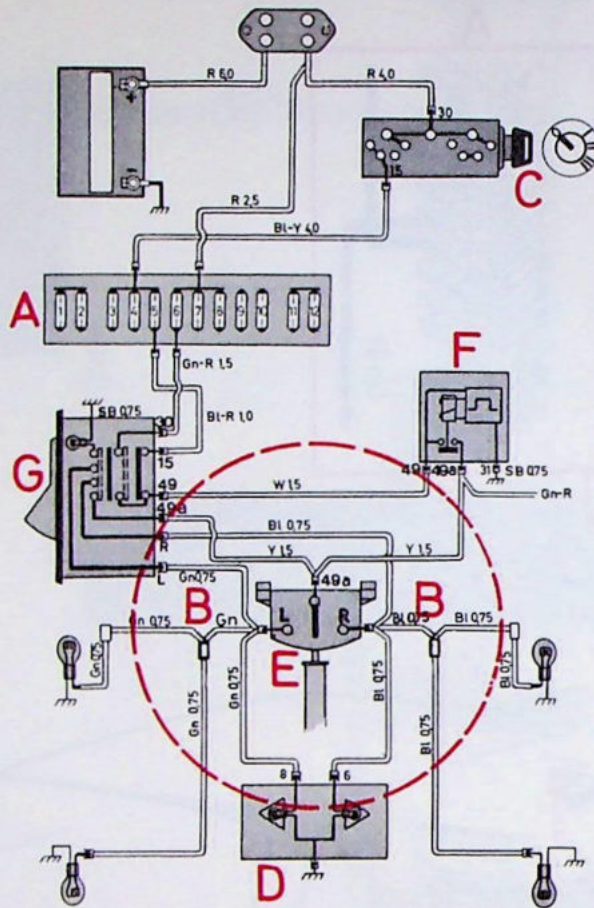
Instrumenten  
Richtingaanwijzers  
Controle- en waarschuwings-  
lampjes  
Waarschuwingsrelais  
autogordels



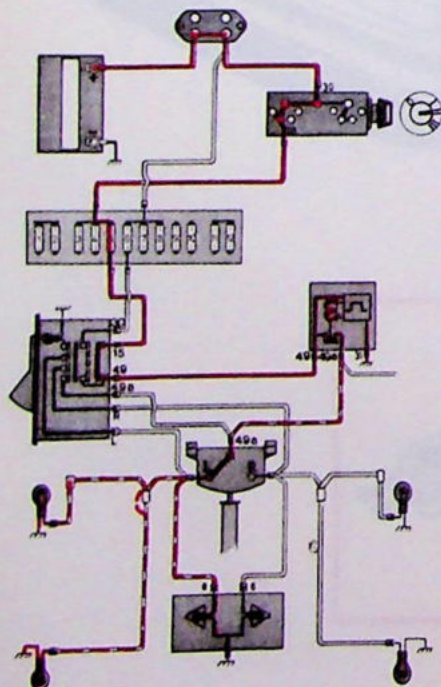
1975

## Zekering nr 6

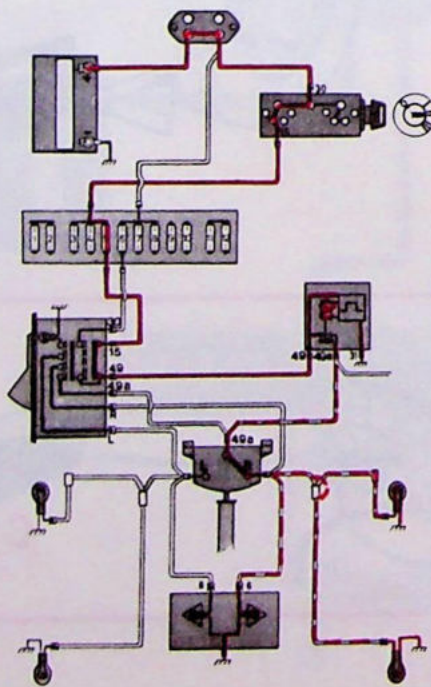
Waarschuwingsknipperlichten  
Achterste interieur-  
verlichting (245)  
Motorruimte verlichting



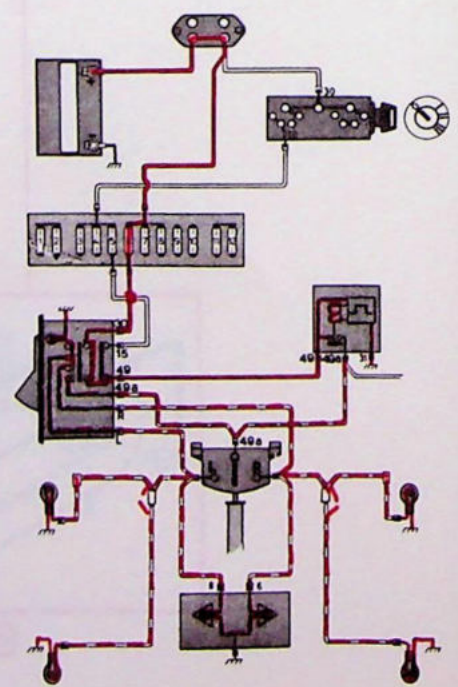
Linker richtingaanwijzer  
ingeschakeld



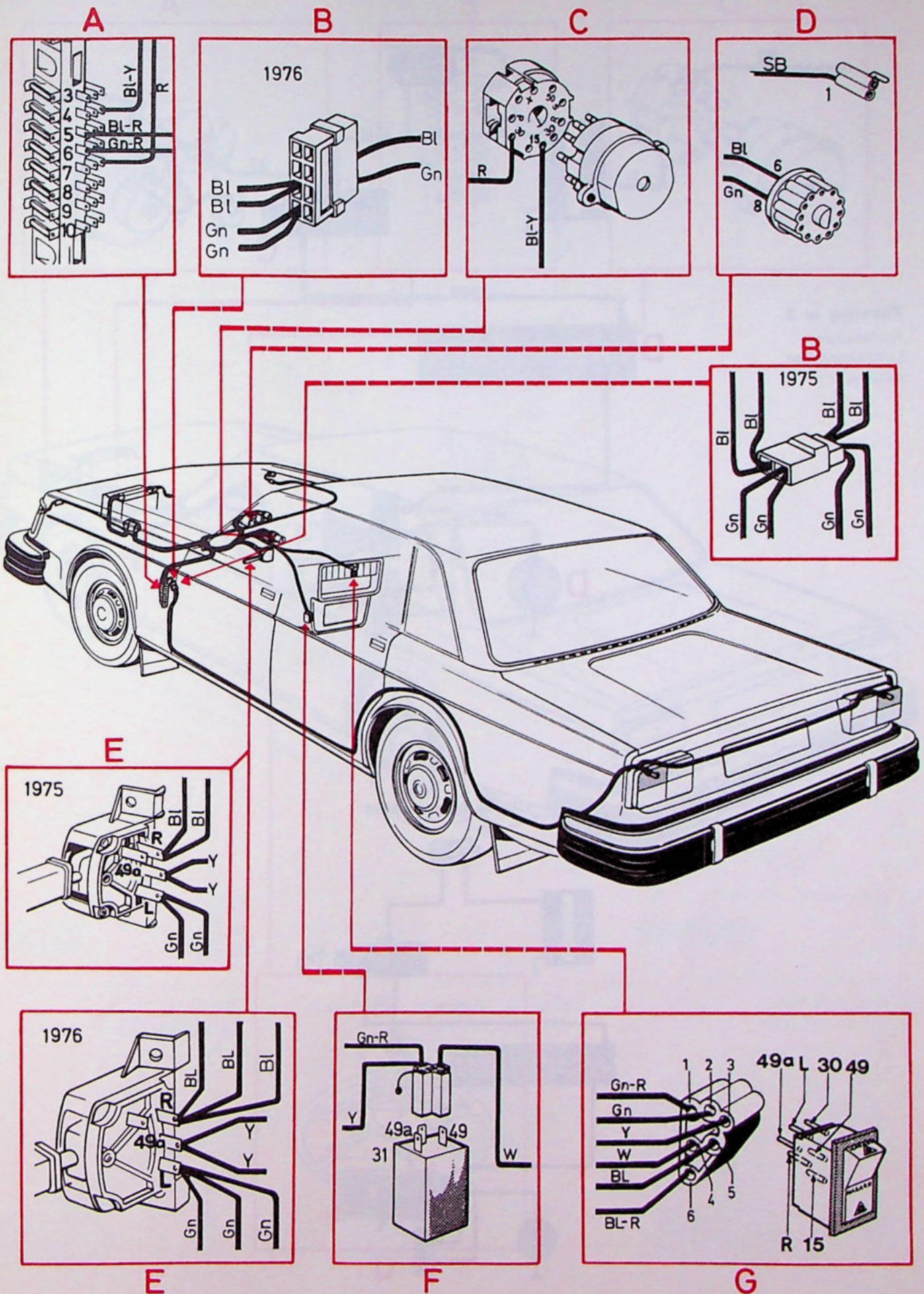
Rechter richtingaanwijzer  
ingeschakeld



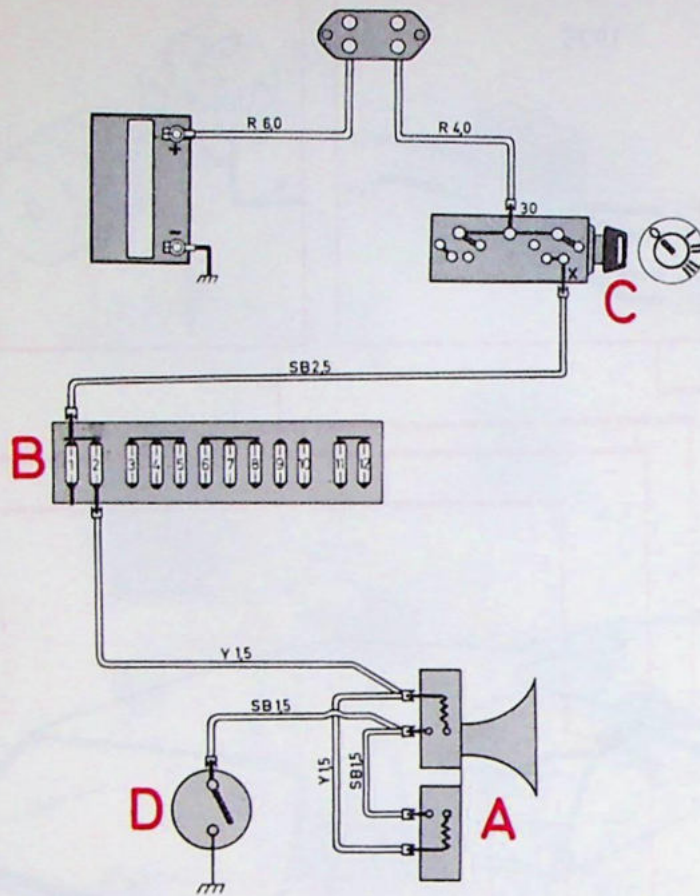
Waarschuwings-  
knipperlichten  
ingeschakeld



# Richtingaanwijzers en waarschuwingsknipperlichten

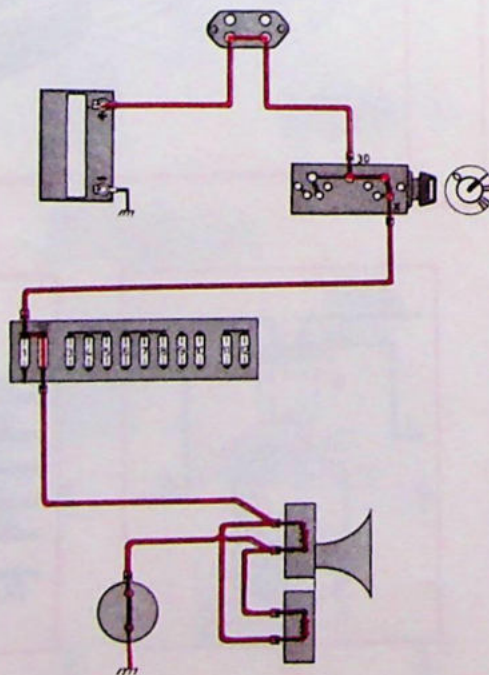


# Claxon



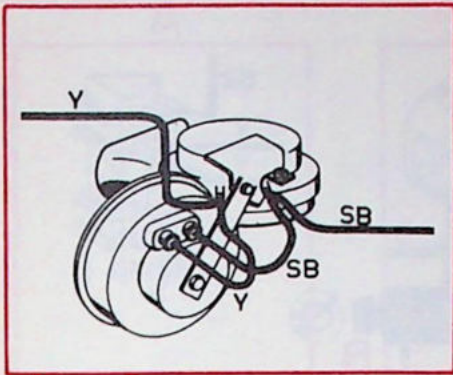
Zekering nr 2  
Ruitewissers  
Luchtaanjager  
Claxon

Claxon ingeschakeld

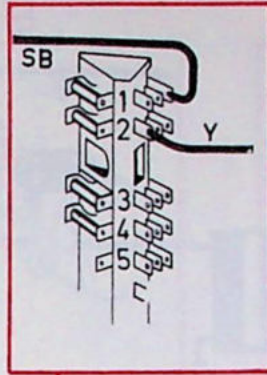


# Claxon

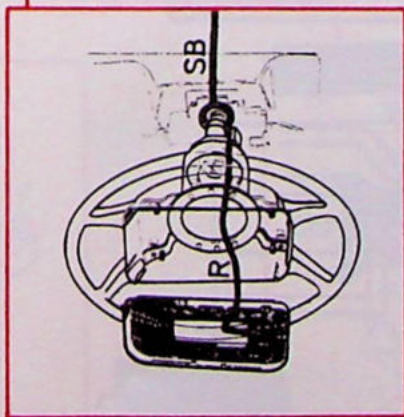
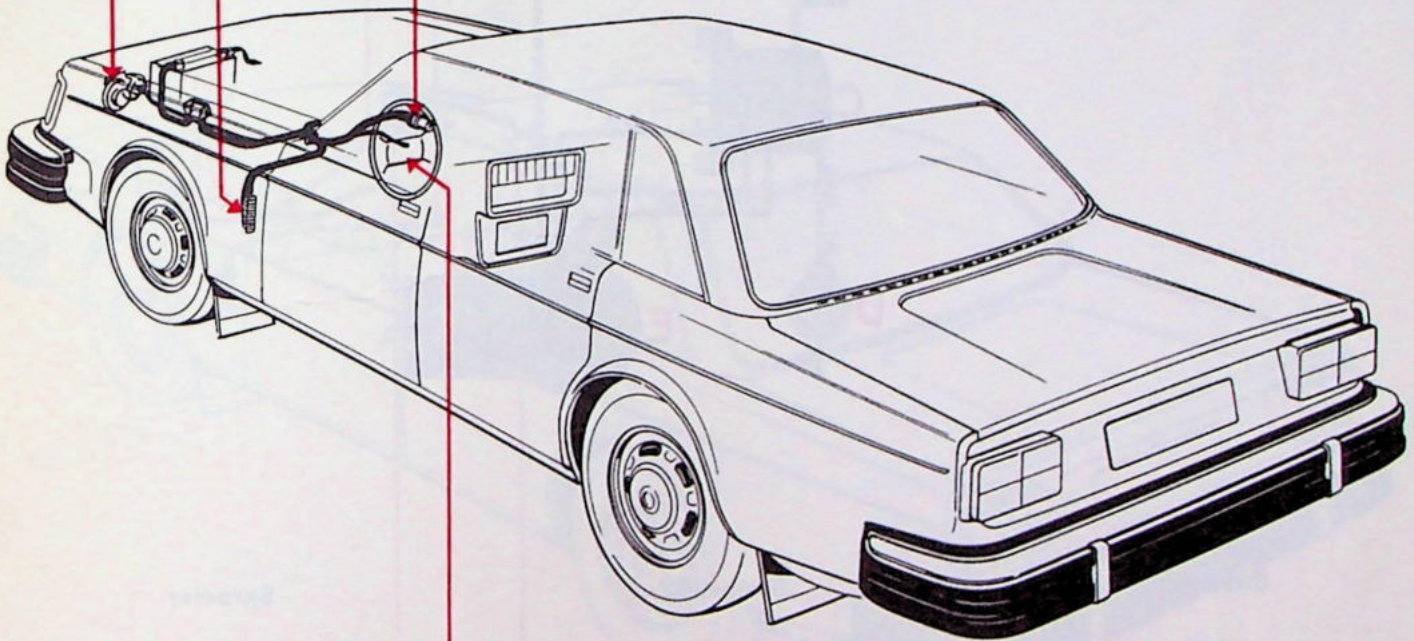
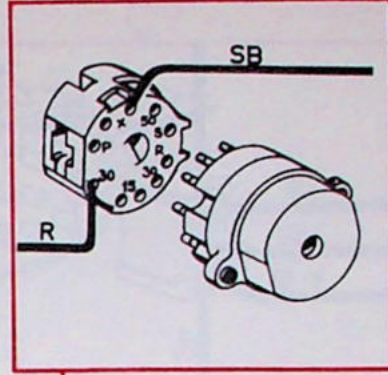
A



B



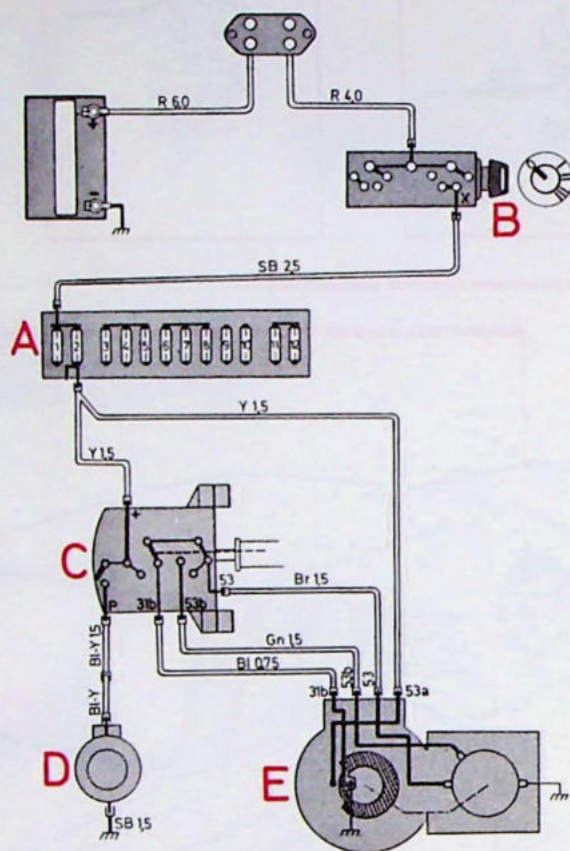
C



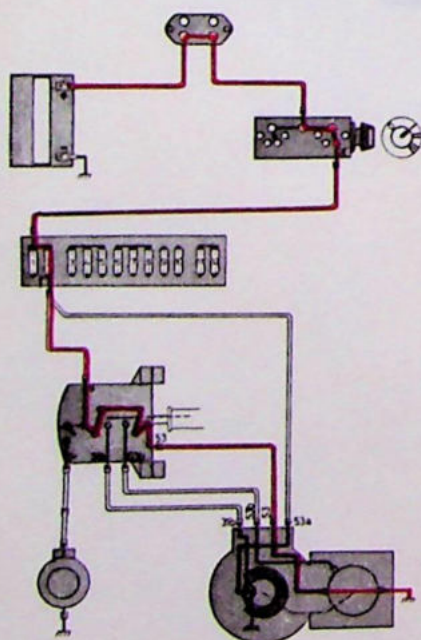
D

# Ruitwissers en -sproeiers

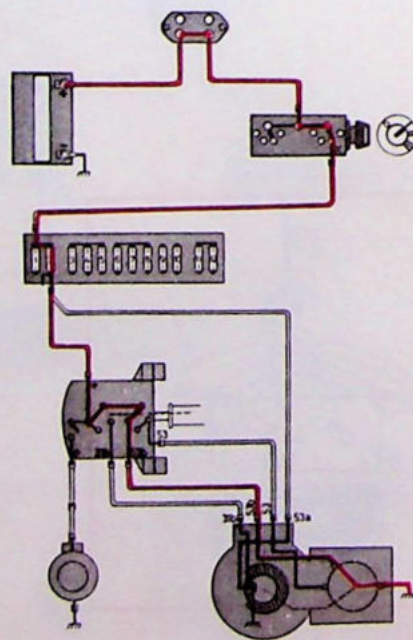
Zekering nr 2  
Ruitwissers  
Luchtaanjager  
Claxon



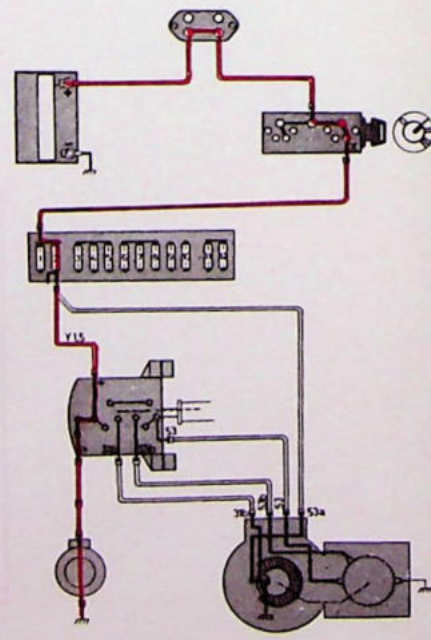
Snelheid 1



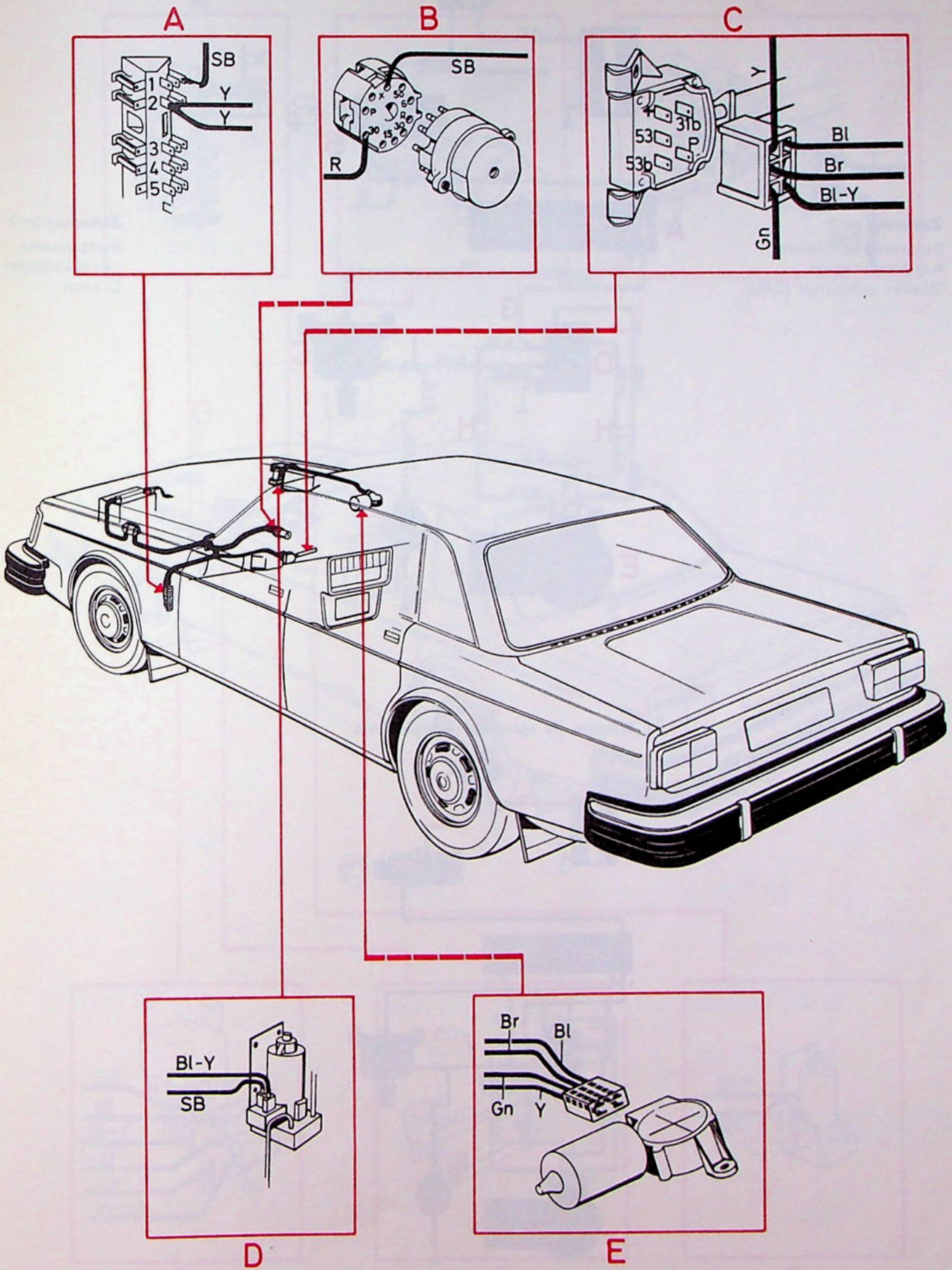
Snelheid 2



Sproeier



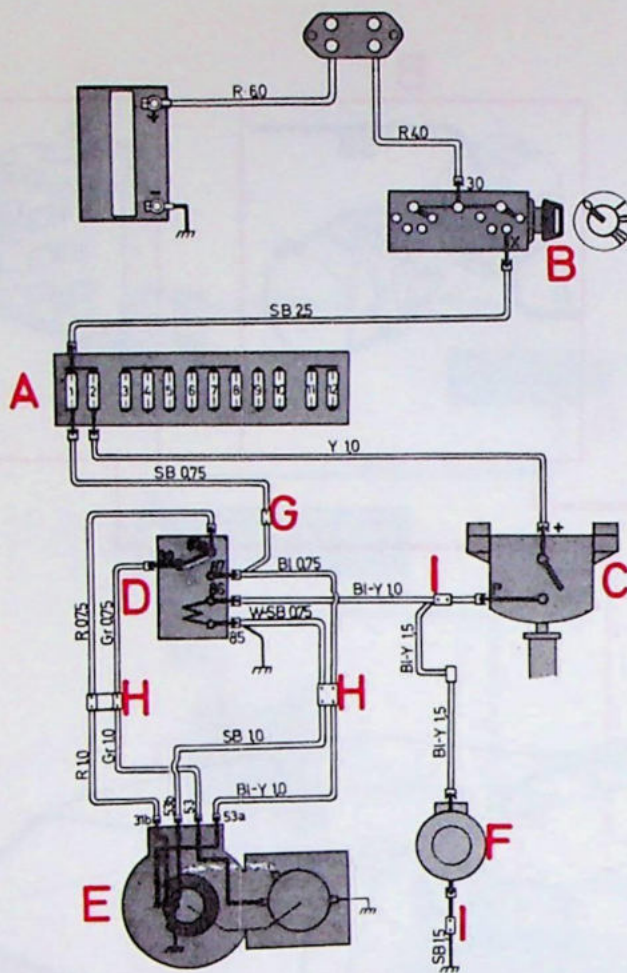
# Ruitwissers en -sproeiers



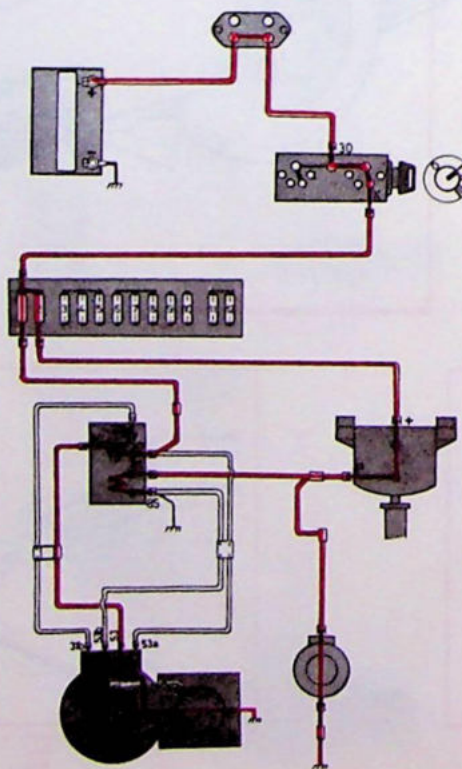
# Koplampwissers en -sproeiers

**Zekering nr 1**  
 Sigaretteaansteker  
 Koplampwissers  
 Wisser achterrait (245)

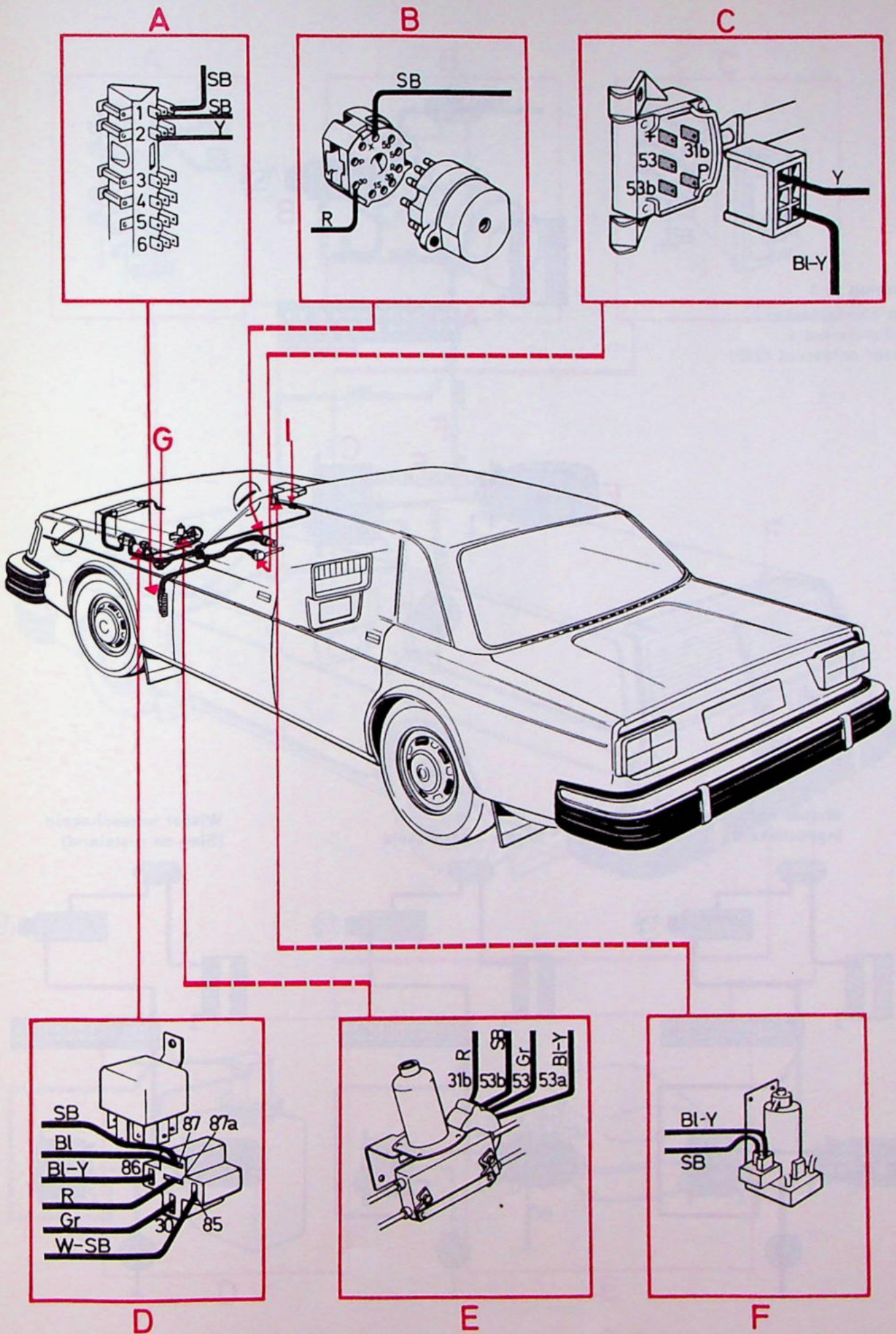
**Zekering nr 2**  
 Ruitwissers  
 Luchtaanjager  
 Claxon



Wissers en sproeiers ingeschakeld

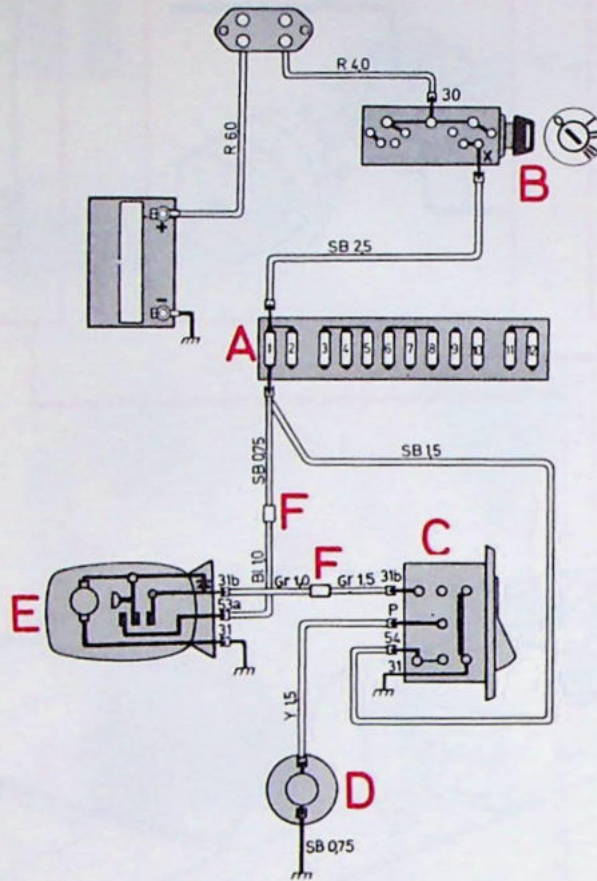


# Koplampwissers en -sproeiers

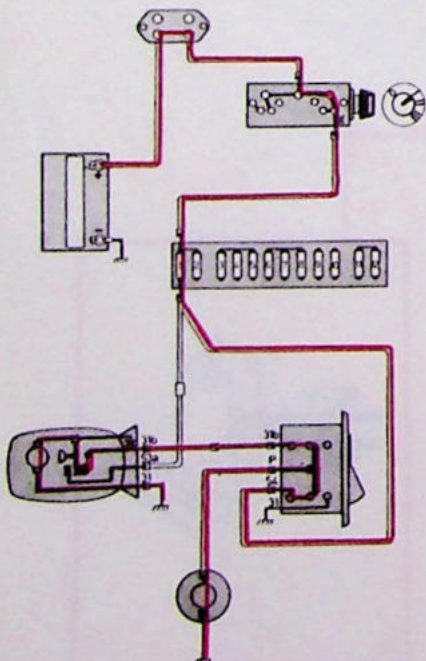


# Ruitwissers en -sproeier, achterrait

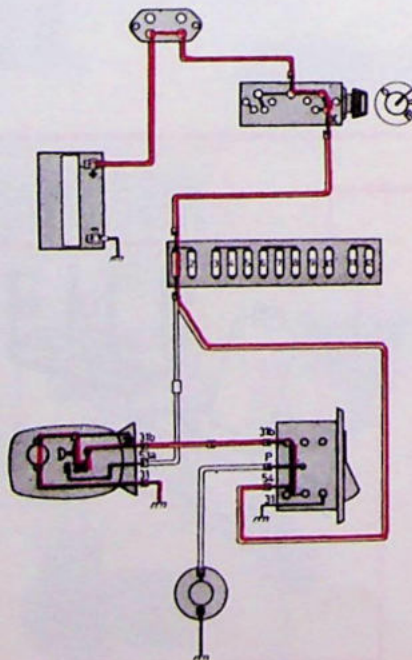
Zekering nr 1  
 Sigaretteaansteker  
 Koplampwissers  
 Wisser achterrait (245)



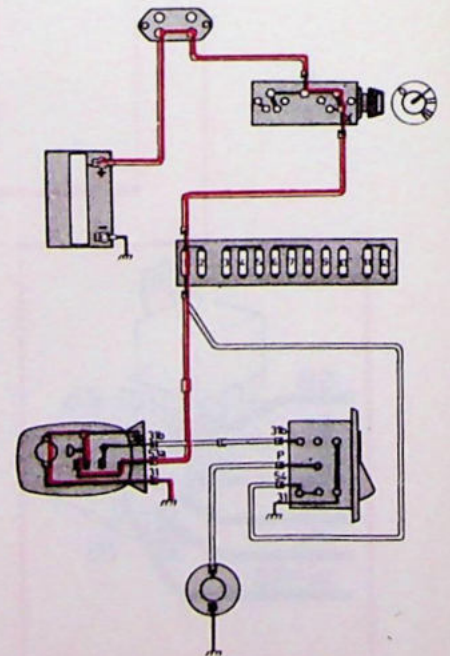
Wisser en sproeier  
 ingeschakeld



Wisser ingeschakeld

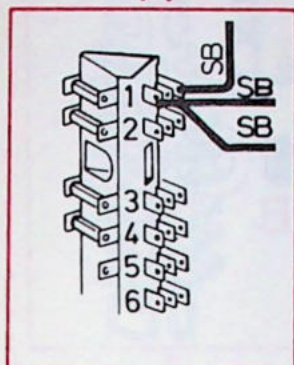


Wisser ingeschakeld  
 (Slag na ruststand)

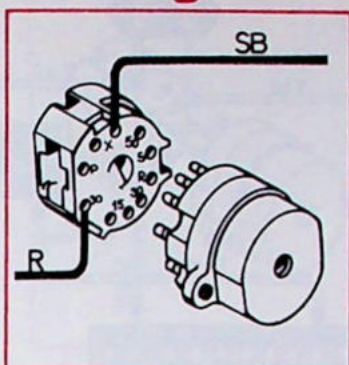


# Ruitewissers en -sproeier, achterruit

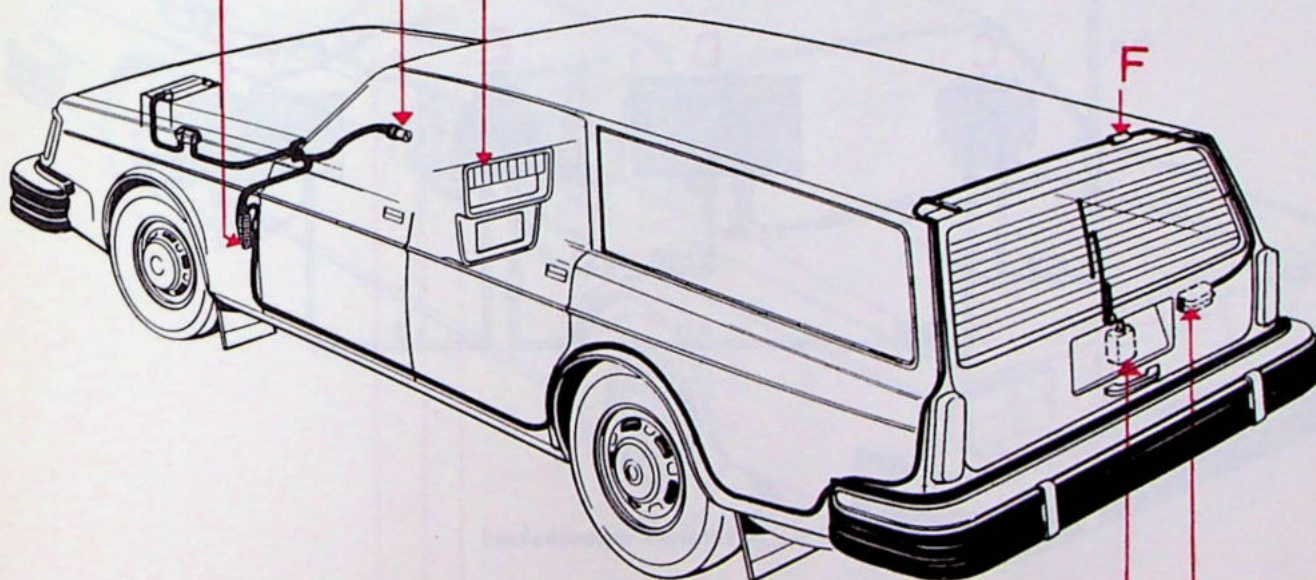
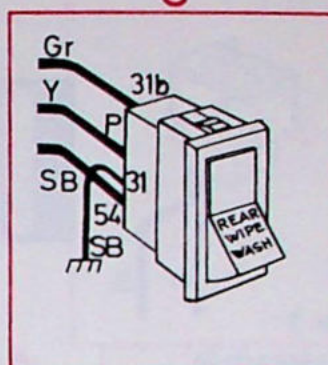
A



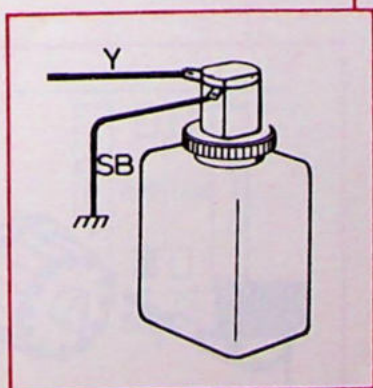
B



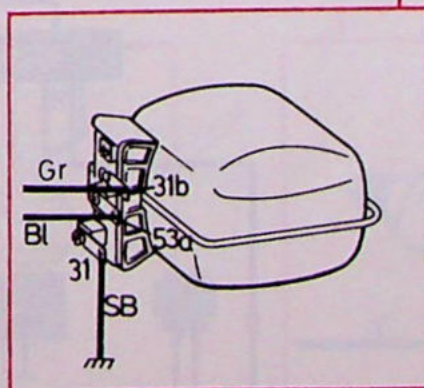
C



F



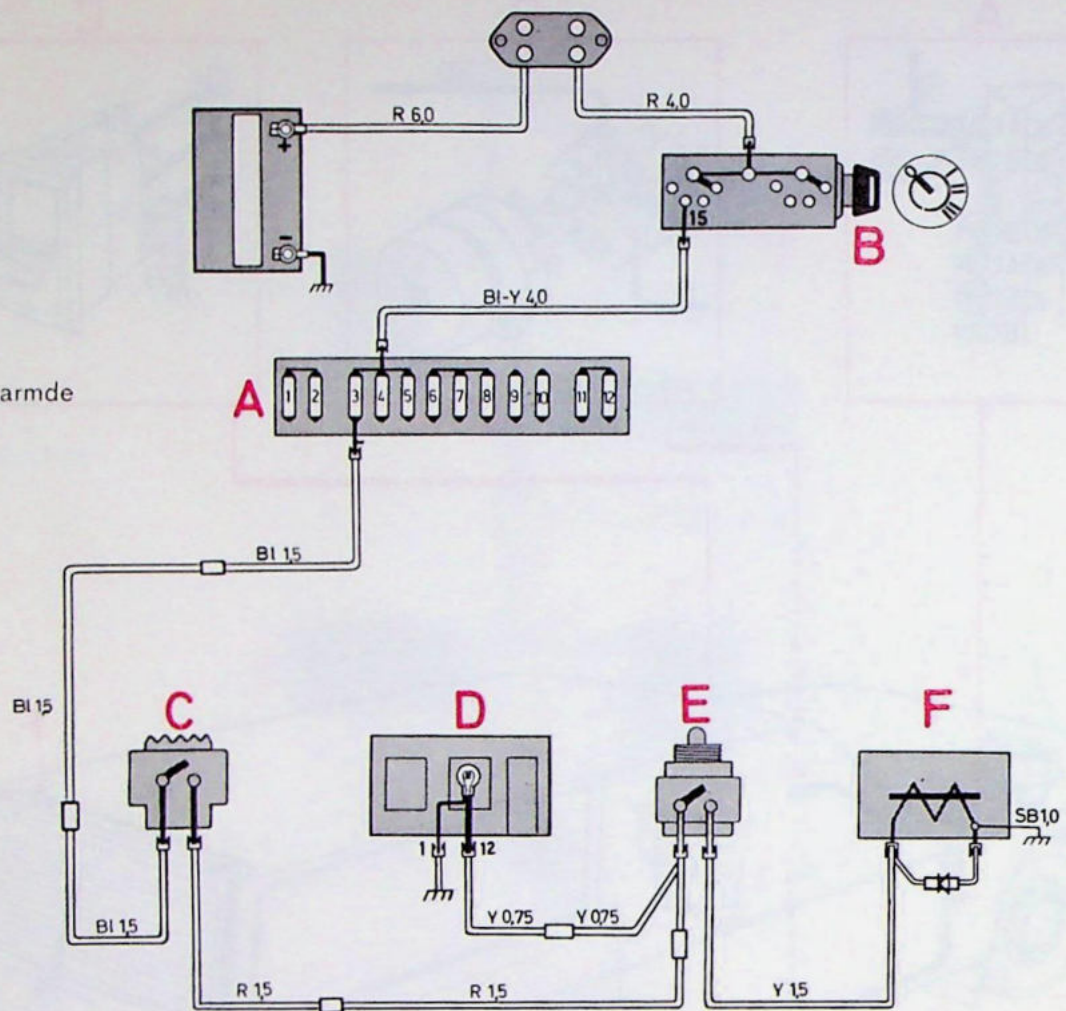
D



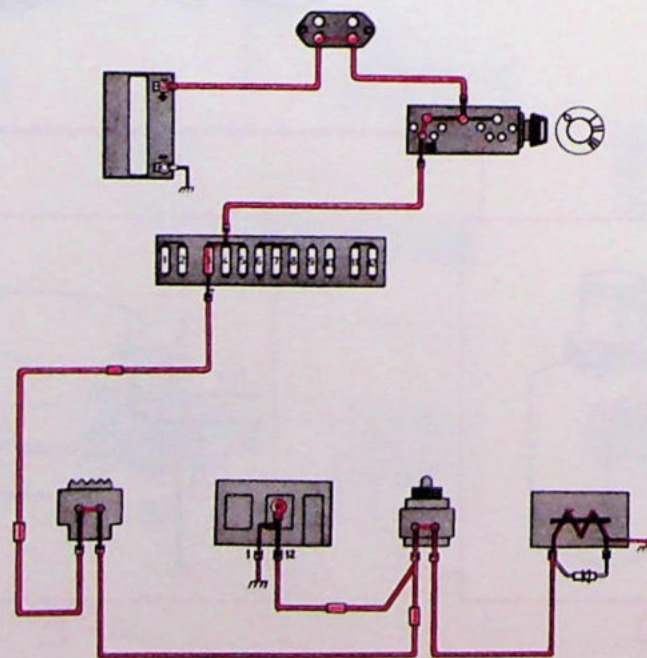
E

# Overdrive

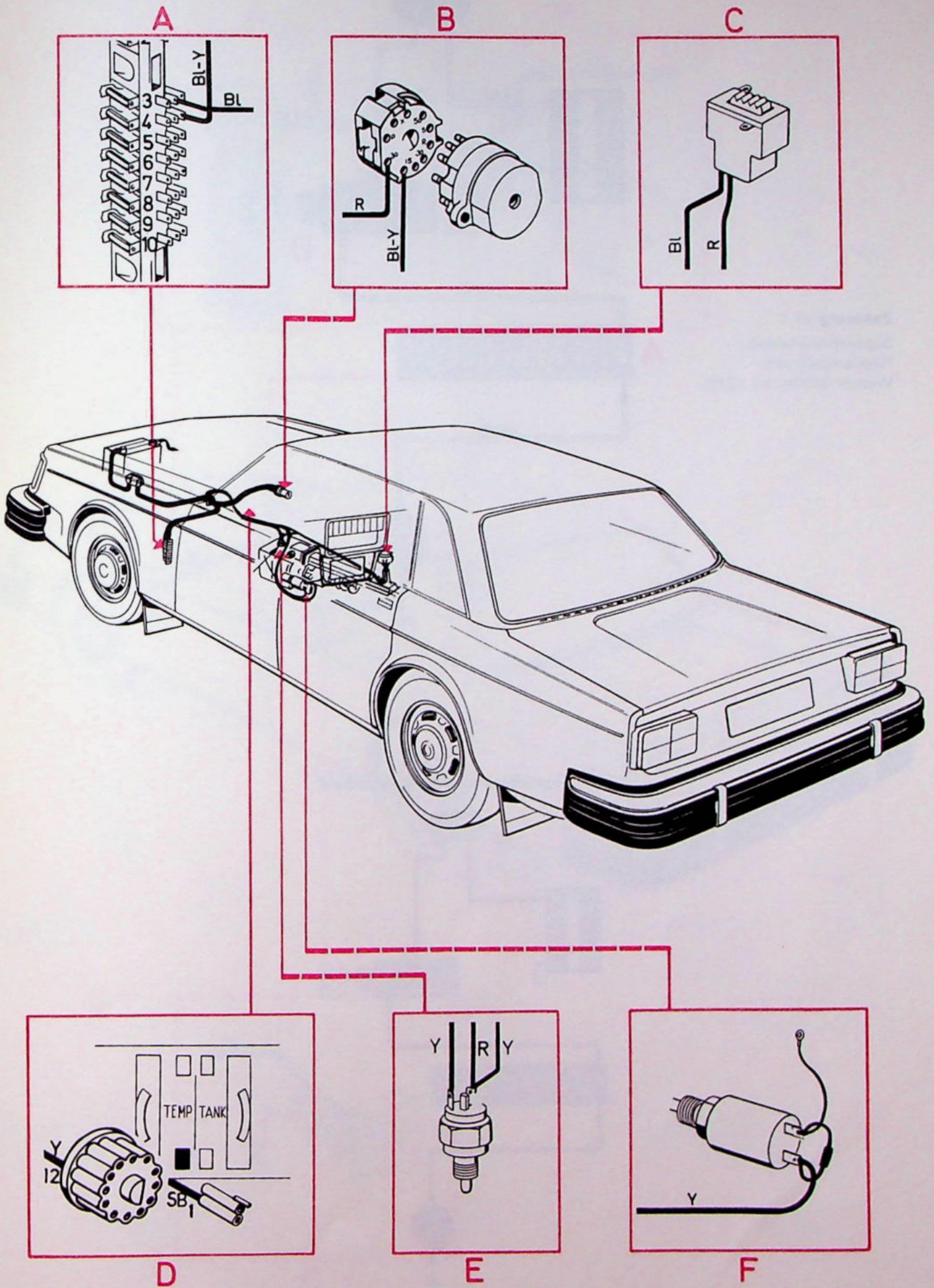
Zekering nr 3  
Elektrisch verwarmde  
achterrait  
Overdrive



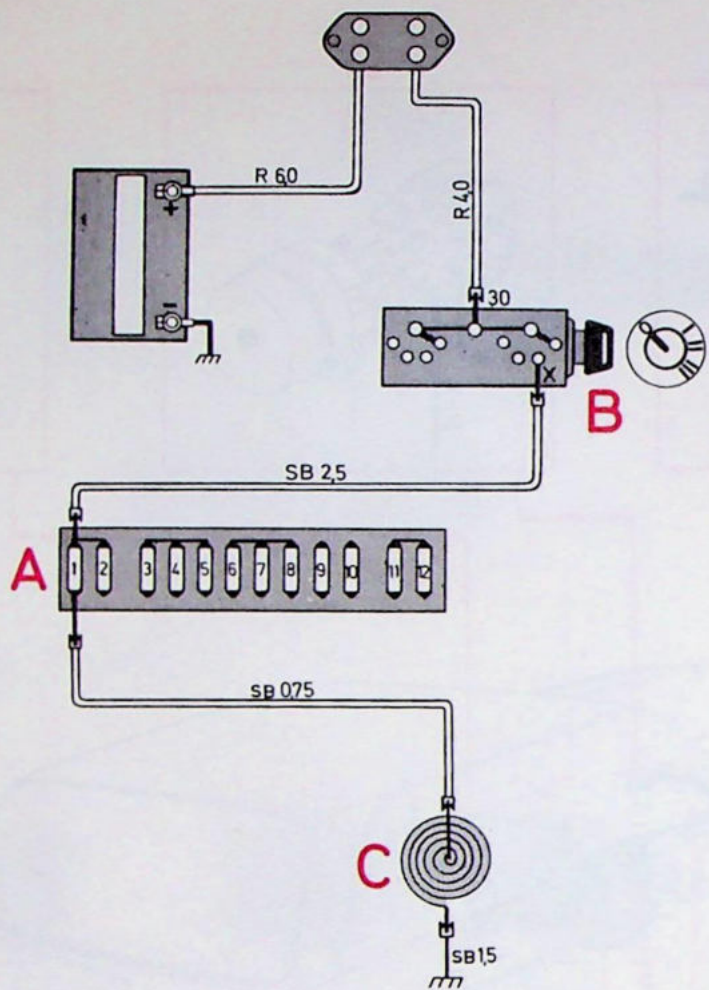
Overdrive ingeschakeld



# Overdrive

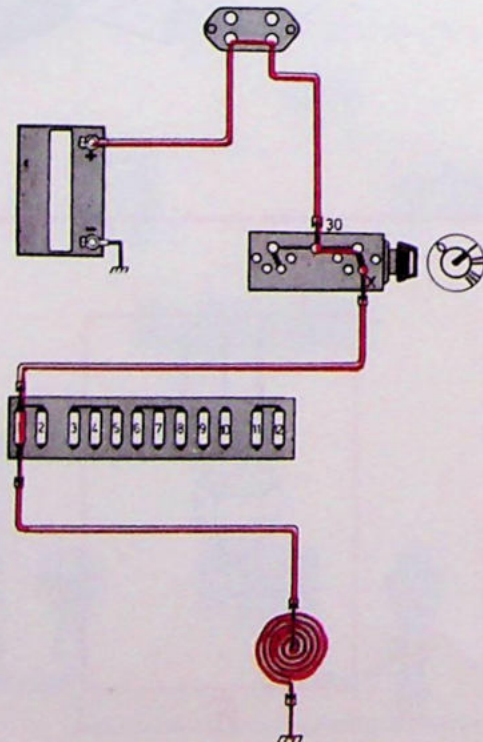


# Sigaretteaansteker



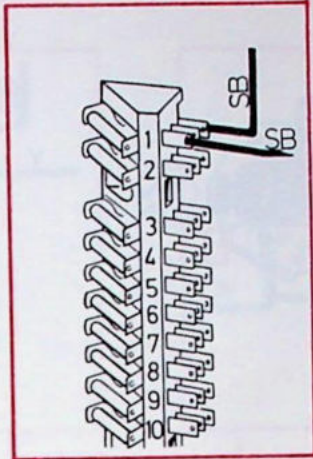
Zekering nr 1  
Sigaretteaansteker  
Koplampwissers  
Wisser achterraut (245)

Sigaretteaansteker ingeschakeld

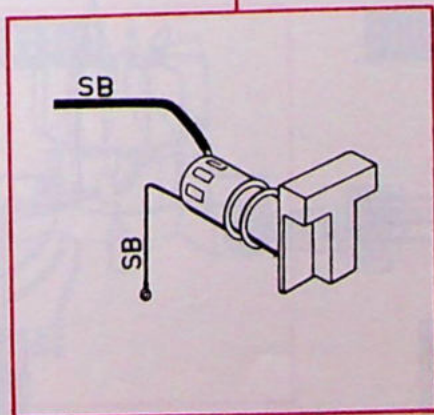
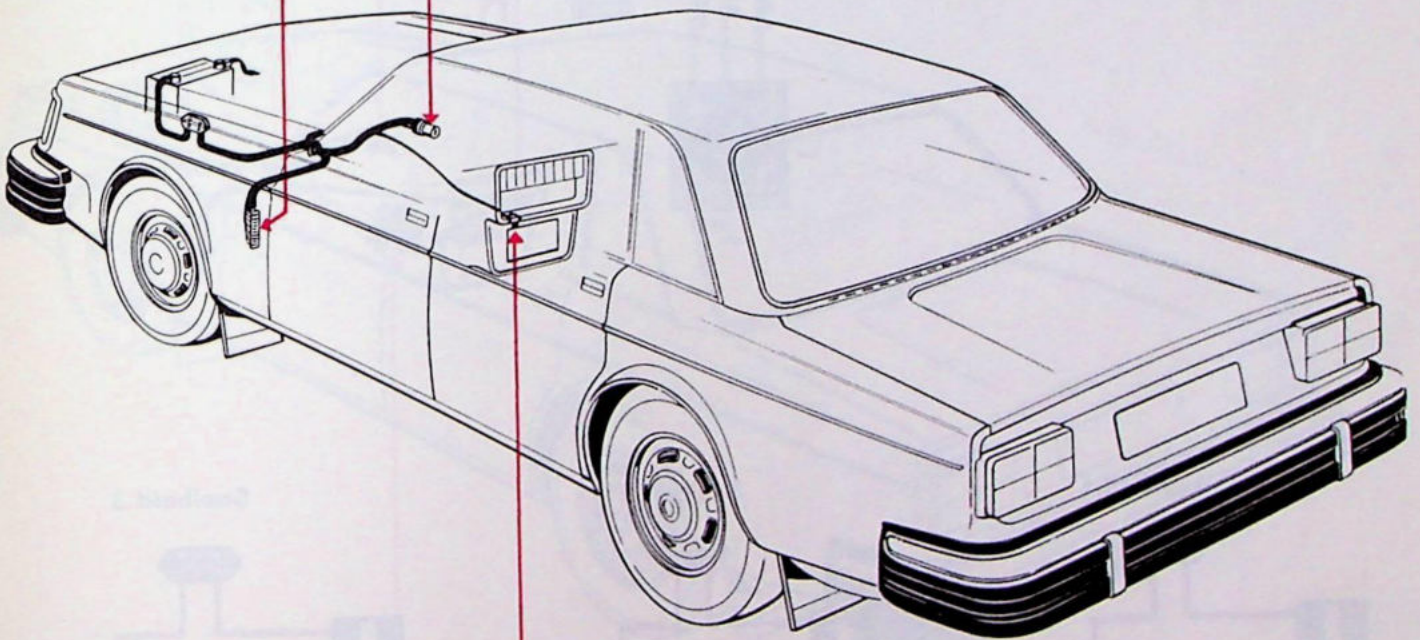
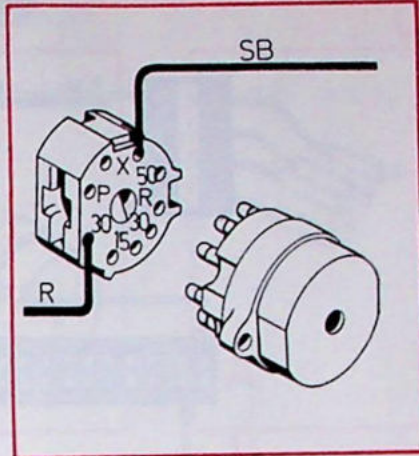


# Sigaretteaansteker

A



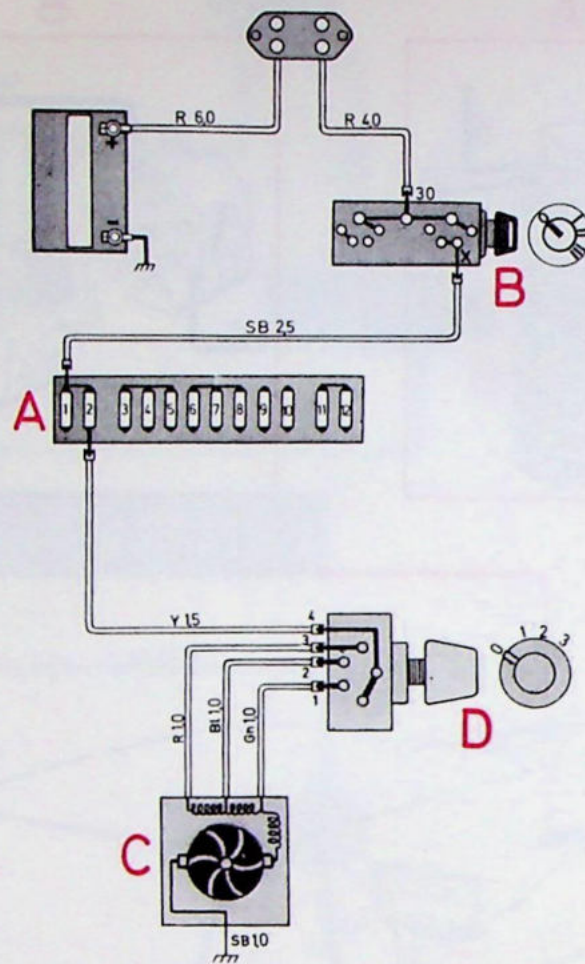
B



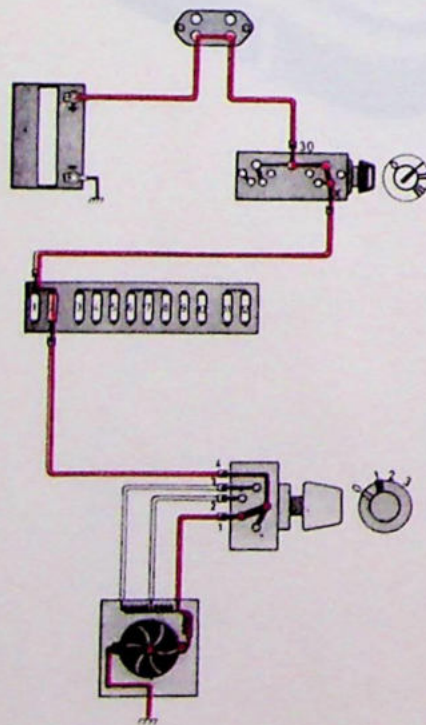
C

# Luchtaanjager "standaardverwarming"

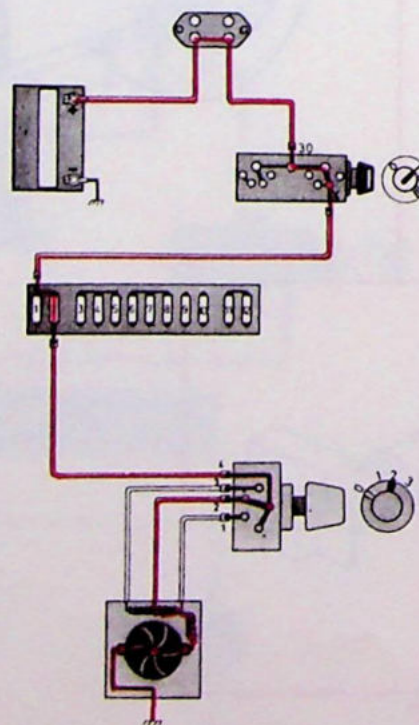
Zekering nr 2  
Ruitewissers  
Luchtaanjager  
Claxon



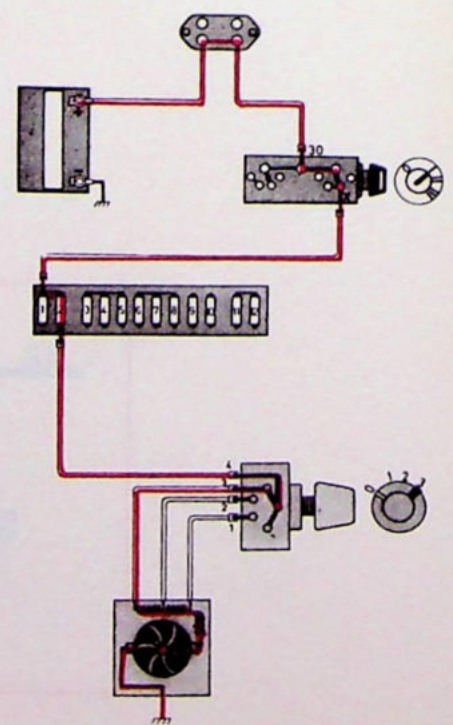
Snelheid 1



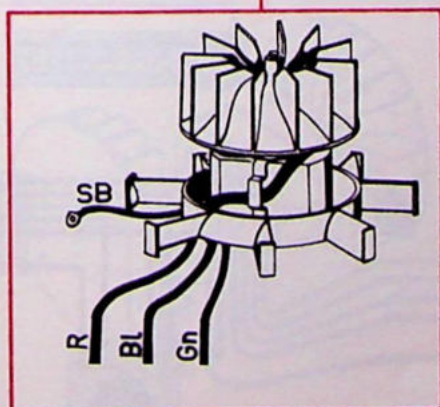
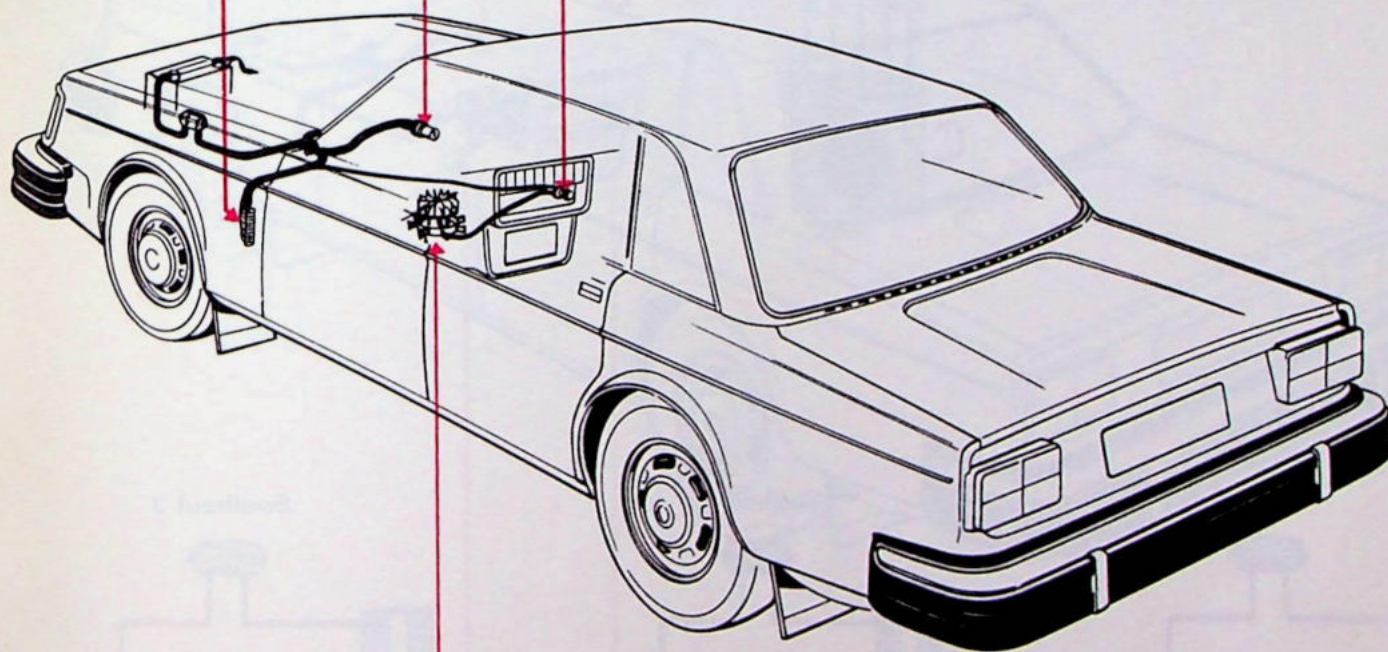
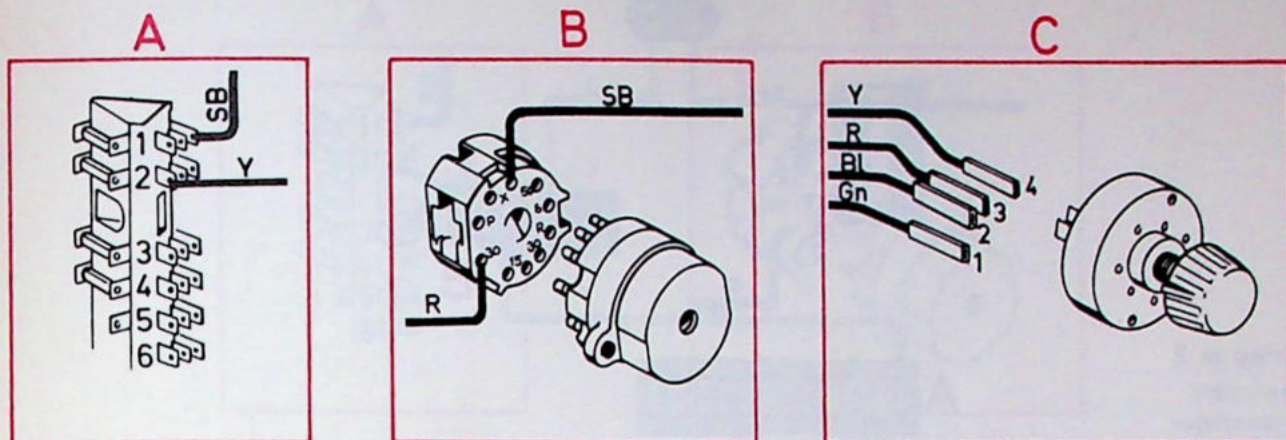
Snelheid 2



Snelheid 3



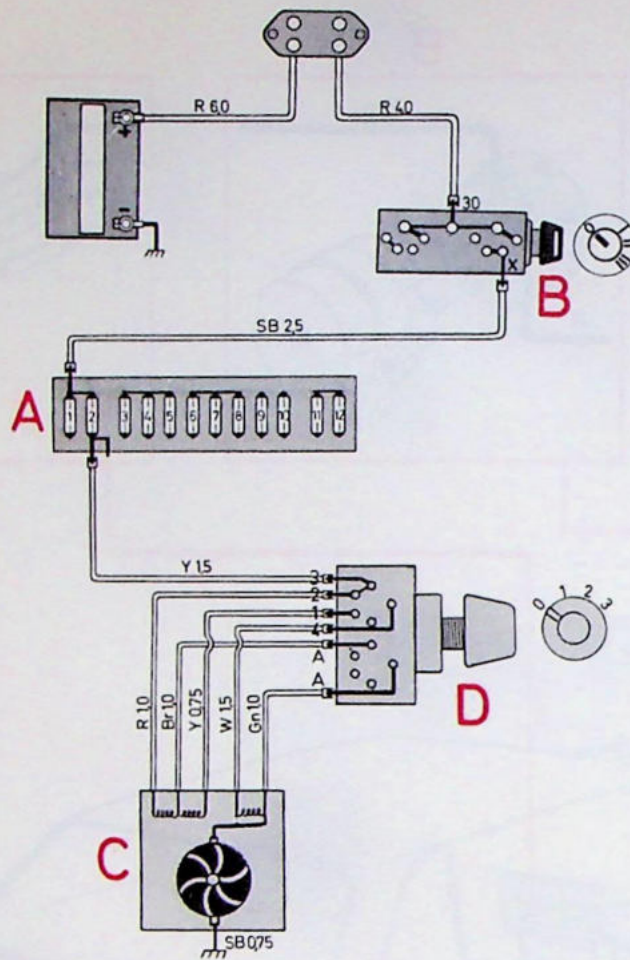
# Luchtaanjager "standaardverwarming"



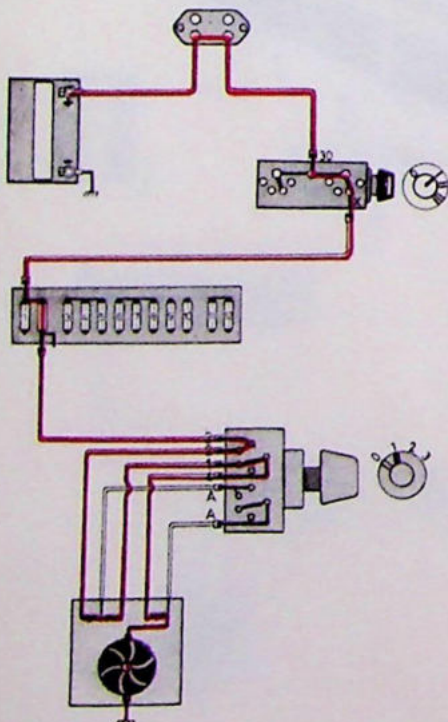
D

# Luchtaanjager gecombineerd verw.systeem

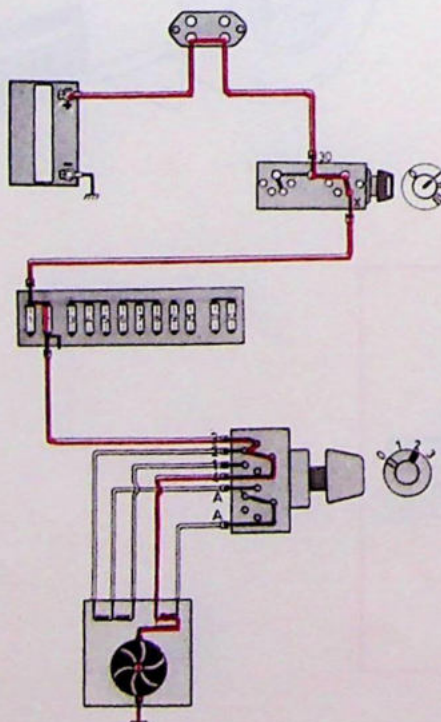
Zekering nr 2  
Ruitwissers  
Luchtaanjager  
Claxon



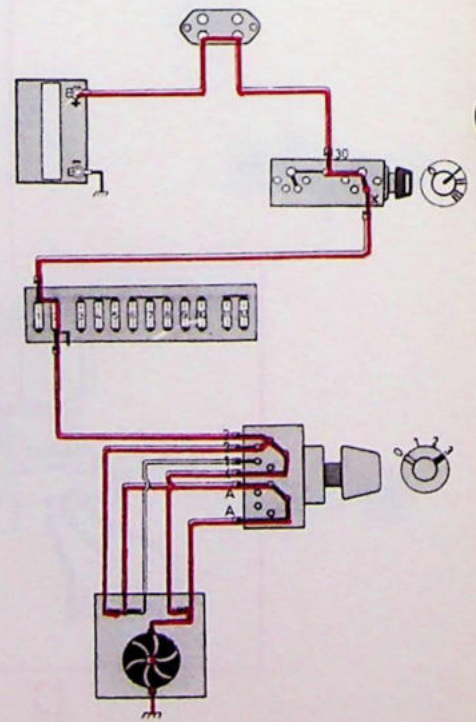
Snelheid 1



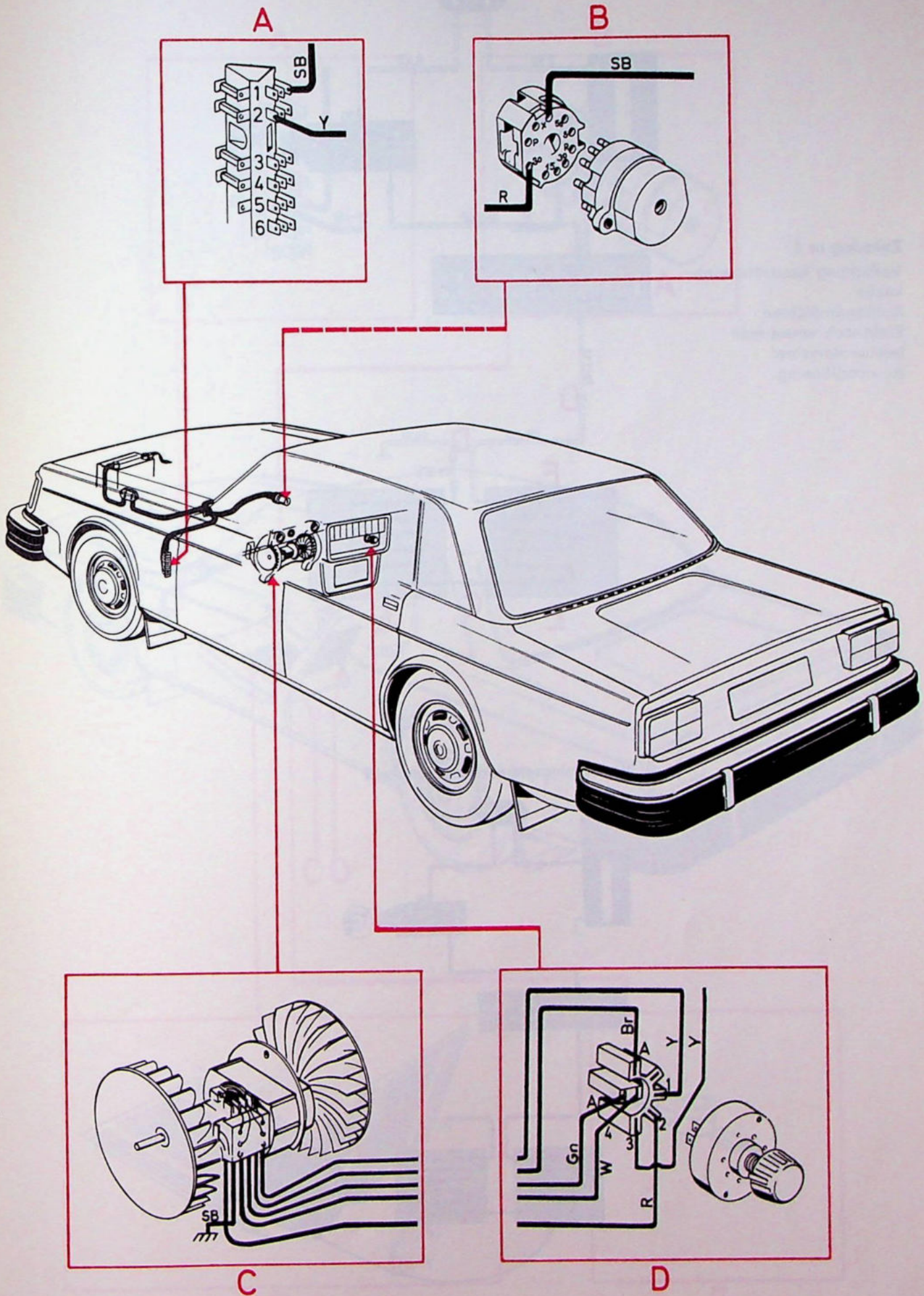
Snelheid 2



Snelheid 3

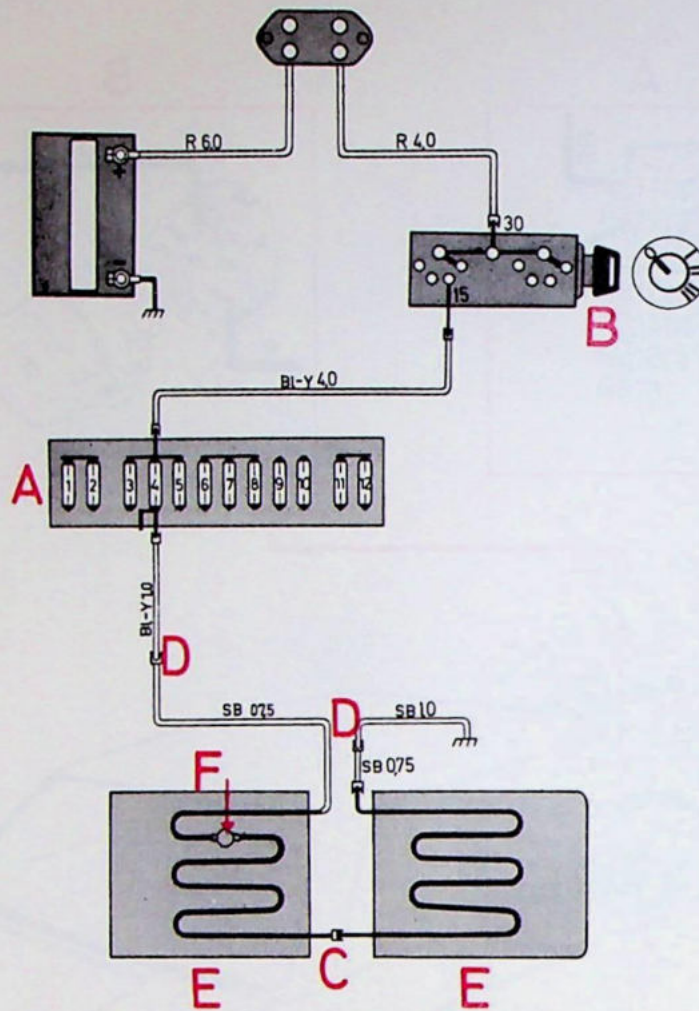


# Luchtaanjager gecombineerd verw.systeem

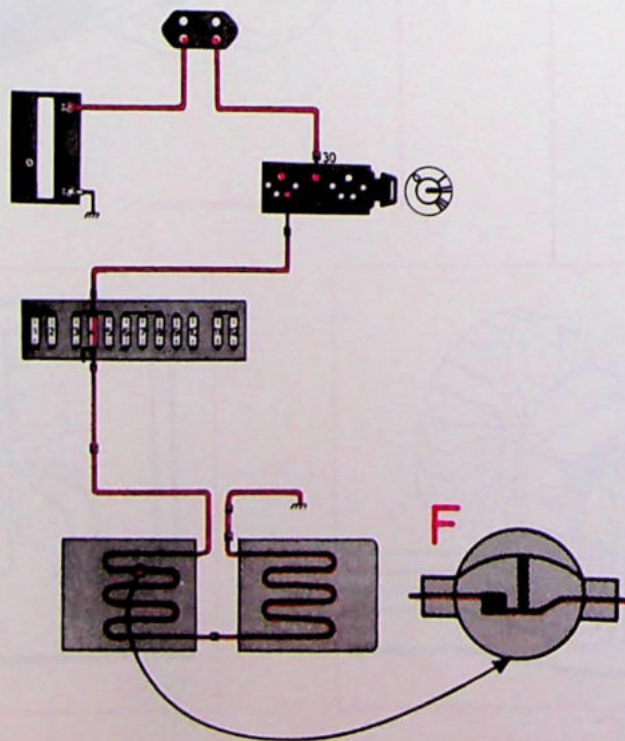


# Elektrisch verwarmde bestuurdersstoel

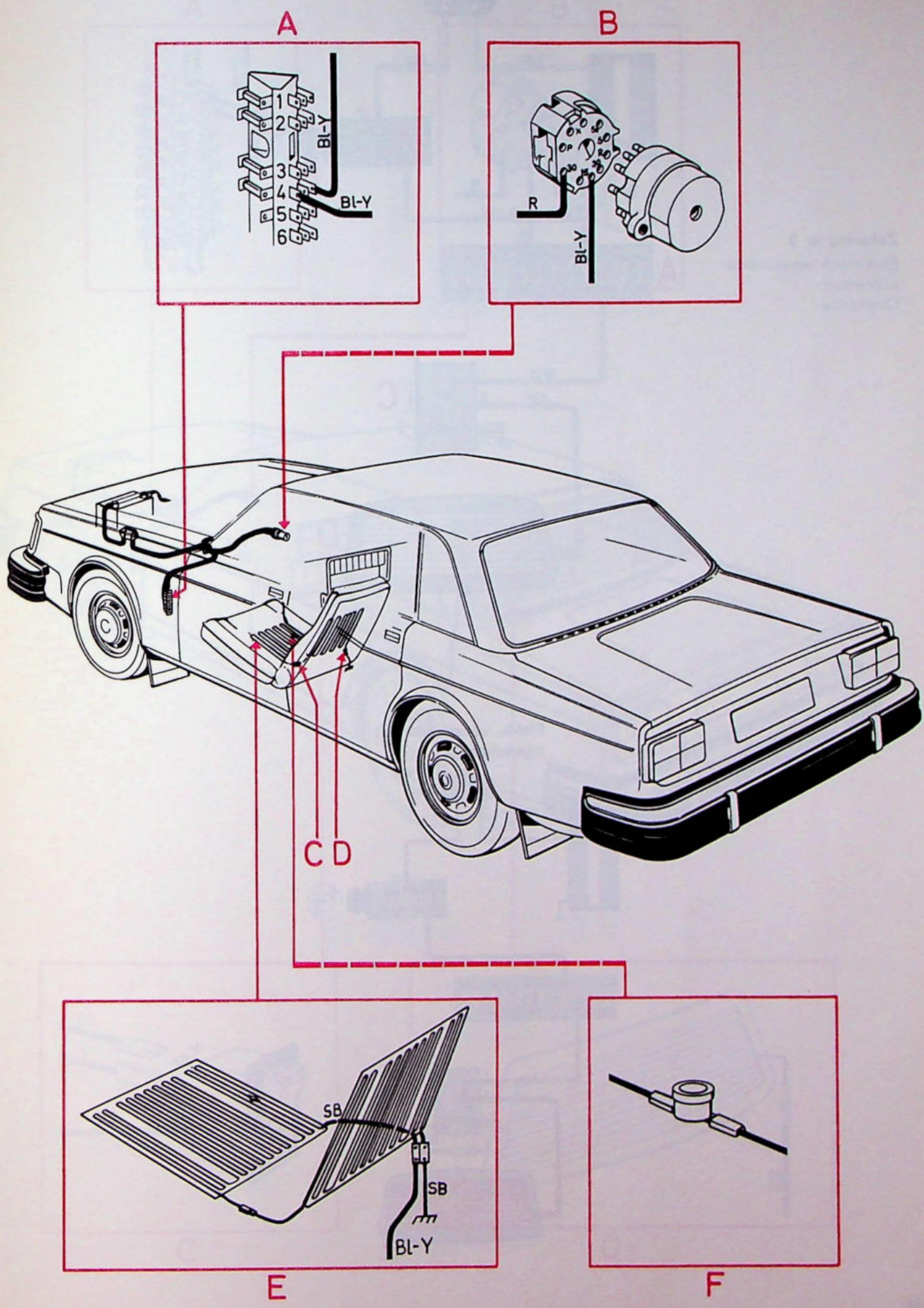
Zekering nr 4  
 Verlichting handschoenen-  
 kastje  
 Achteruitrijlichten  
 Elektrisch verwarmde  
 bestuurdersstoel  
 Air-conditioning



Verwarmingselement ingeschakeld



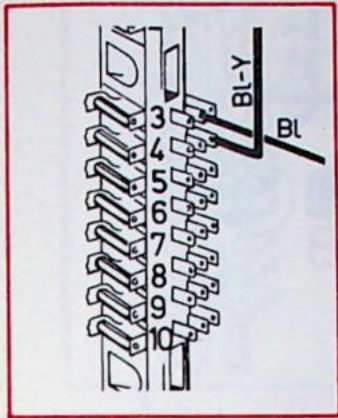
# Elektrisch verwarmde bestuurdersstoel



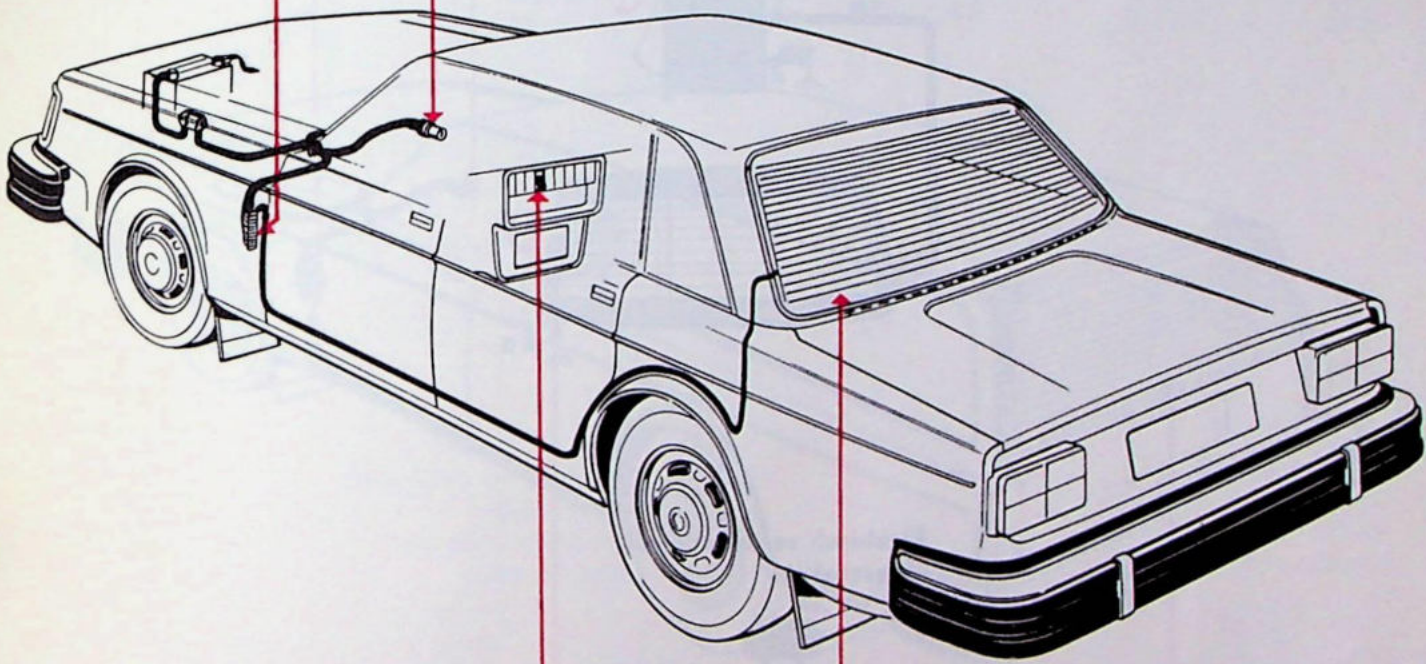
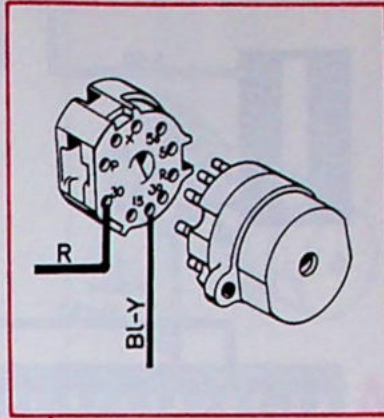


# Elektrisch verwarmde achterrait, 242-244

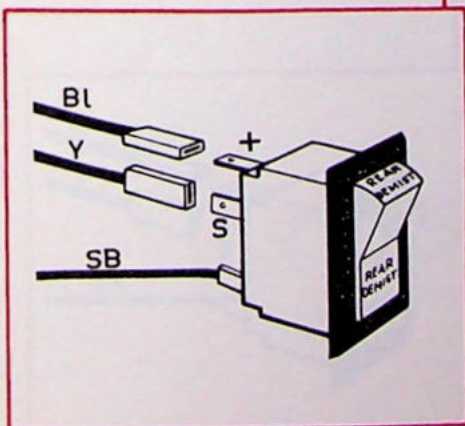
A



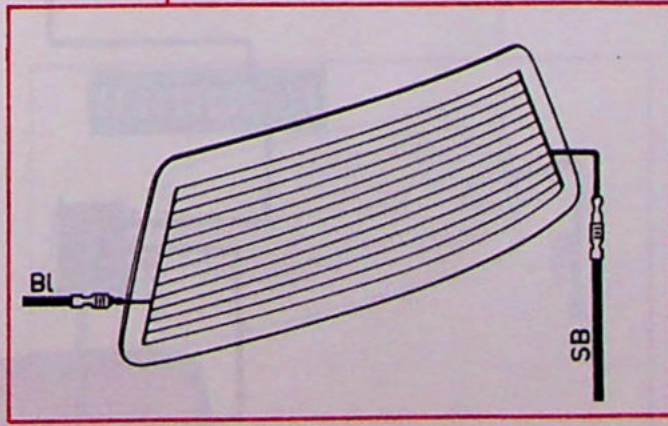
B



C

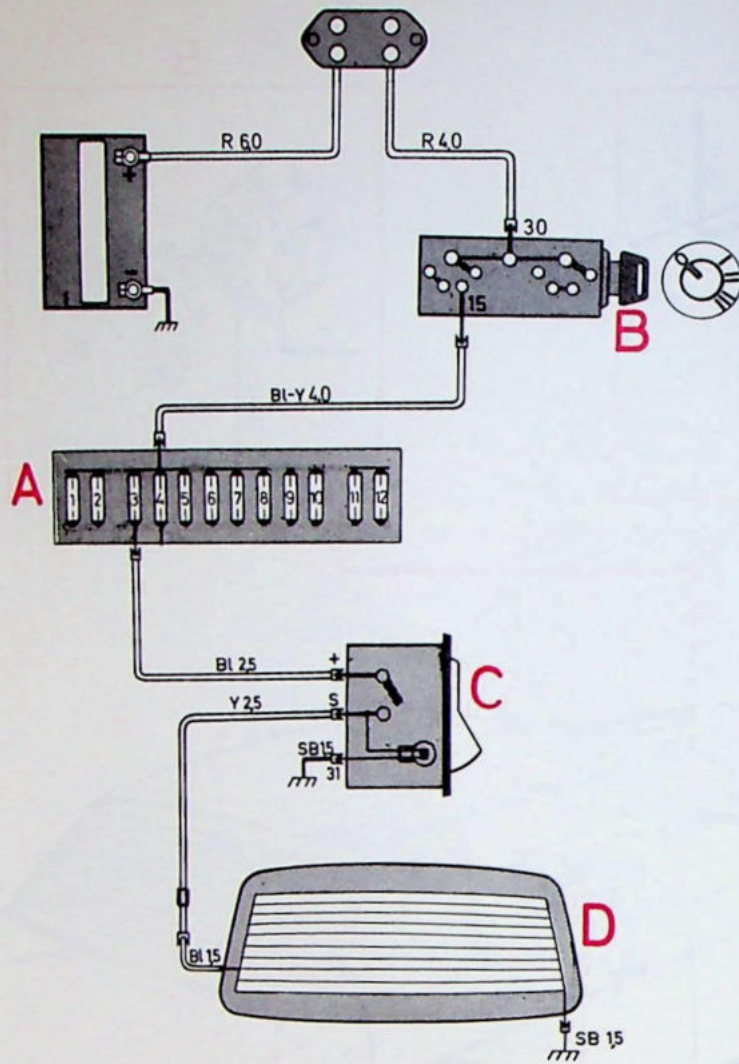


D

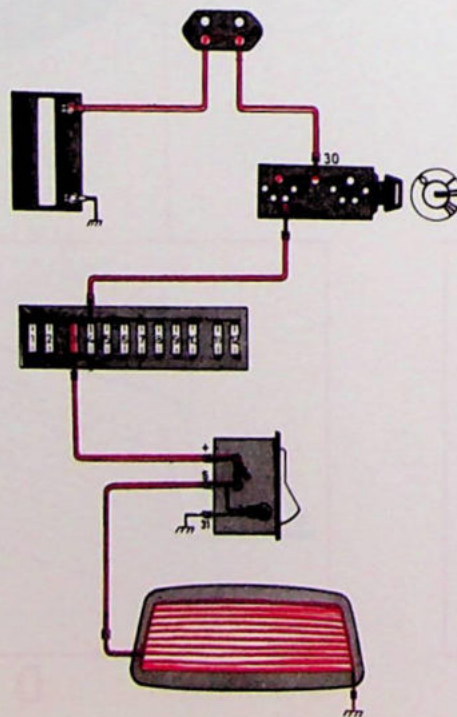


# Elektrisch verwarmde achterrait, 245

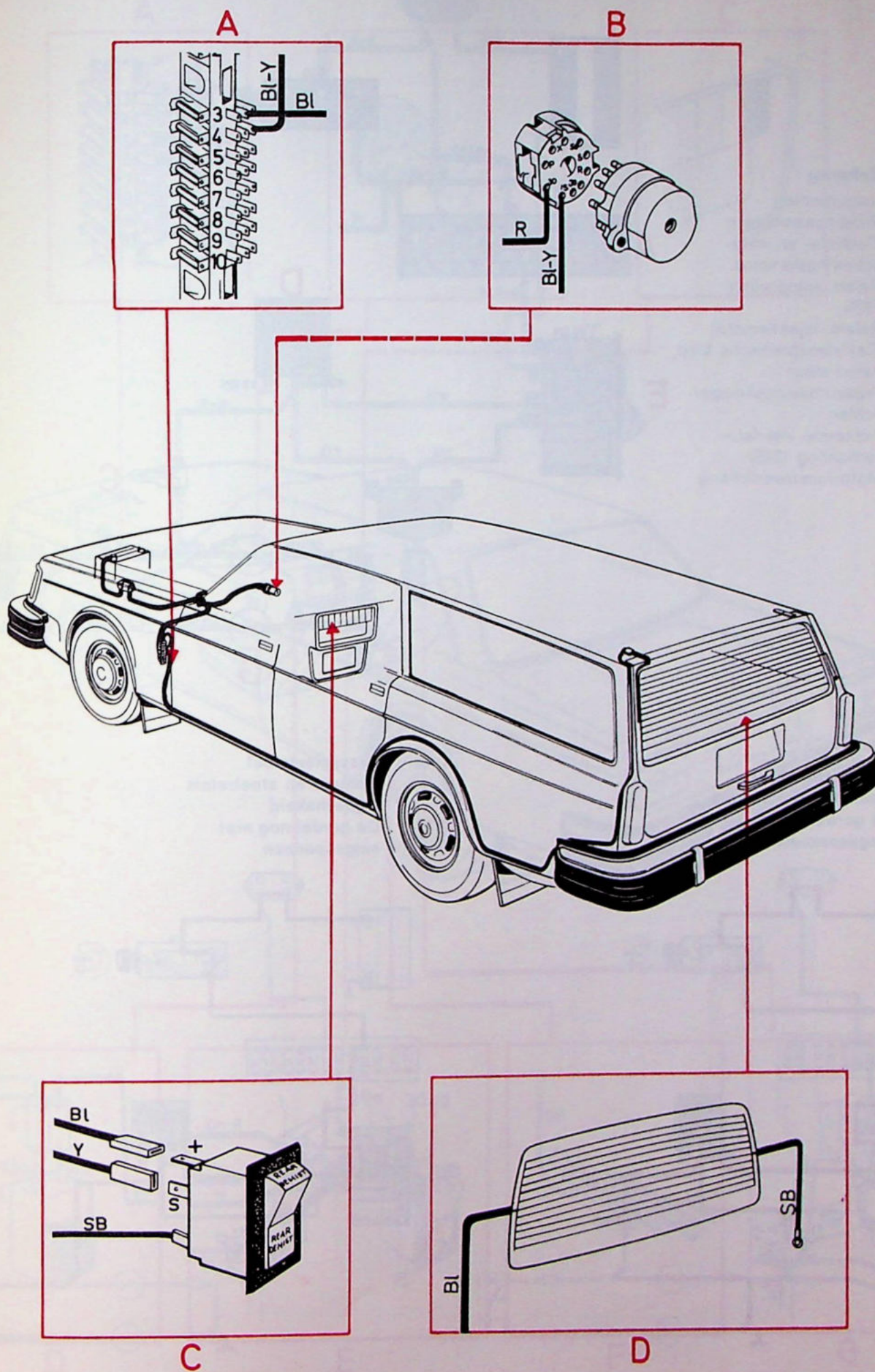
Zekering nr 3  
Elektrisch verwarmde  
achterrait  
Overdrive



Elektrisch verwarmde rit  
ingeschakeld



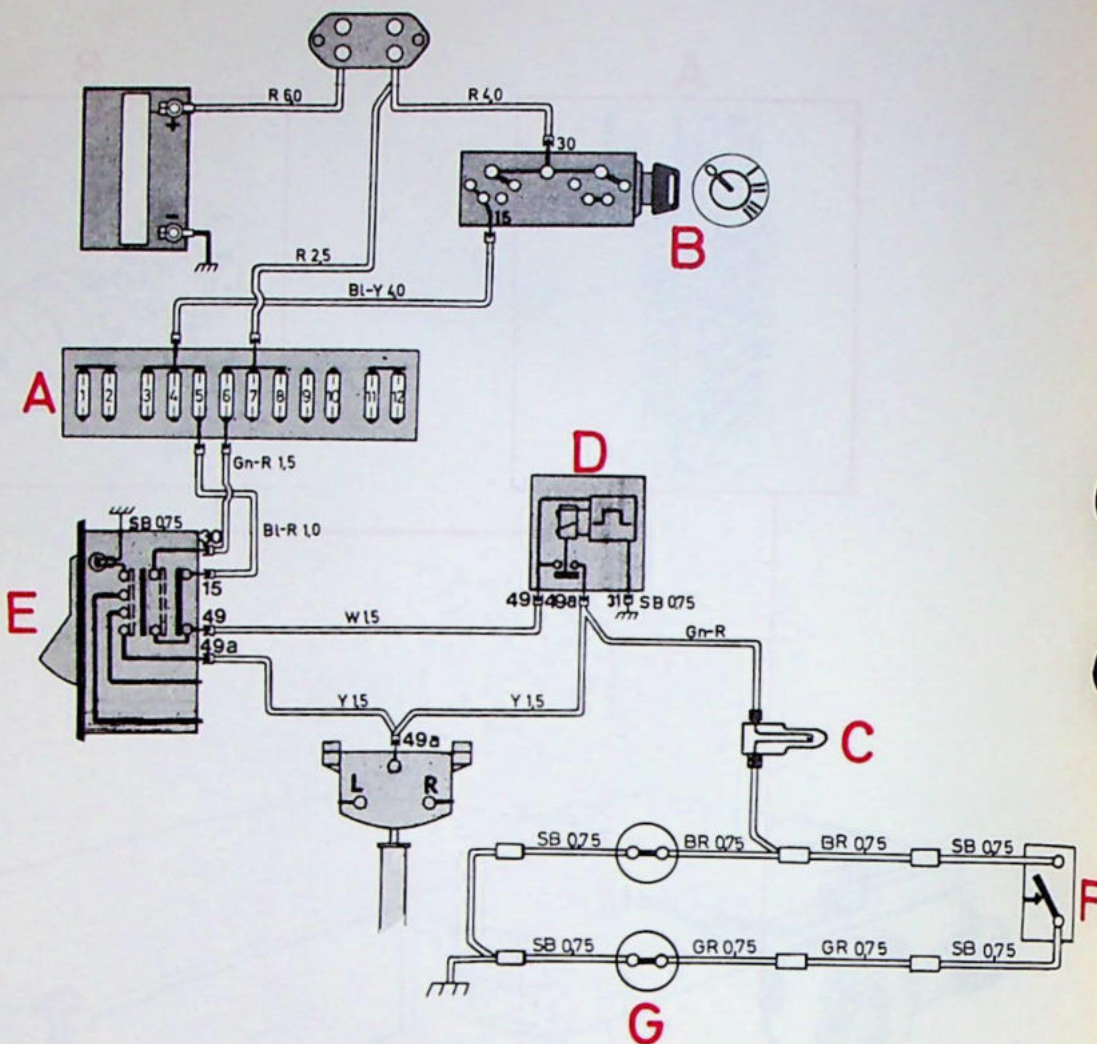
# Elektrisch verwarmde achterrait, 245



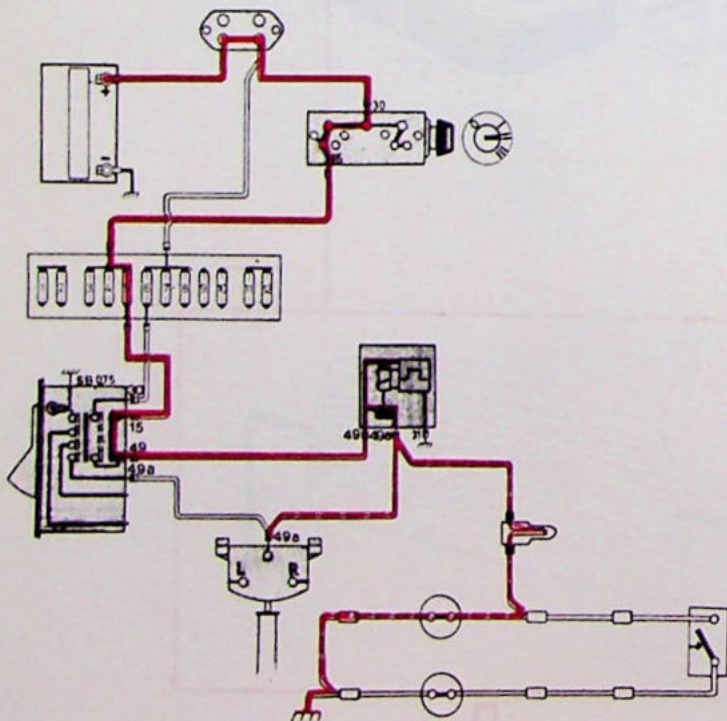
# Waarschuwingssysteem veiligheidsgordels

Nr Zekering

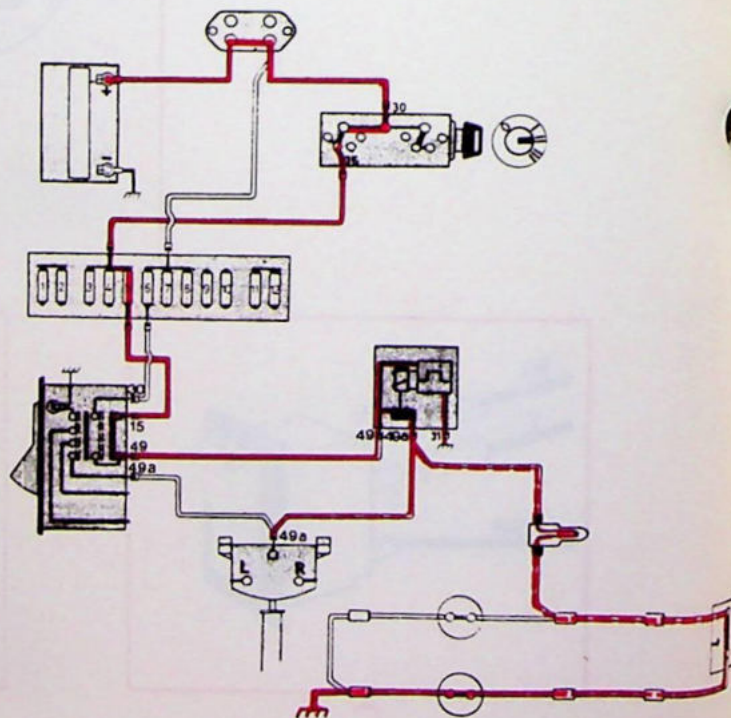
- 5 Instrumenten  
Richtingaanwijzers  
Controle- en waarschuwinglampjes  
Relais autogordels 1976  
Relais, injectiemotor  
Elektromagnetische klep, carburateur
- 6 Waarschuwingssnipperlichten  
Achterste interieurverlichting (245)  
Motorruimteverlichting



Bestuurdersstoel  
Contact ingeschakeld  
De gordel nog niet omgespannen

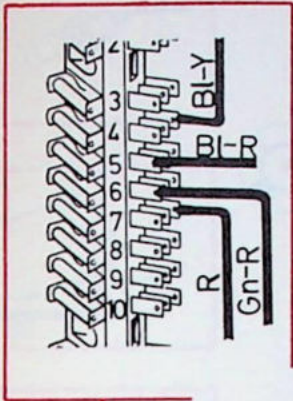


Passagiersstoel  
Contact en stoelrelais  
ingeschakeld  
De gordel nog niet omgespannen

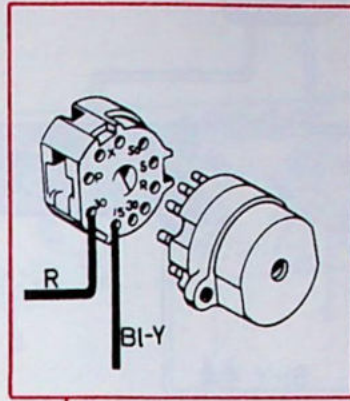


# Waarschuwingssysteem veiligheidsgordels

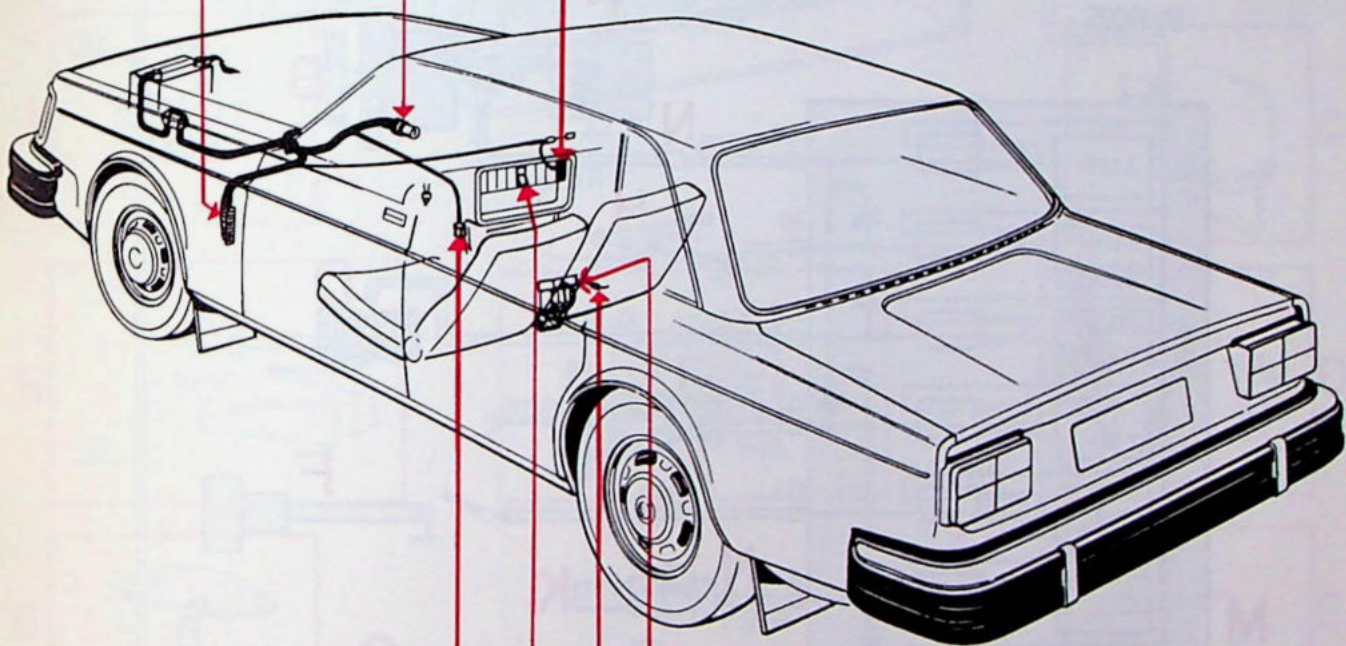
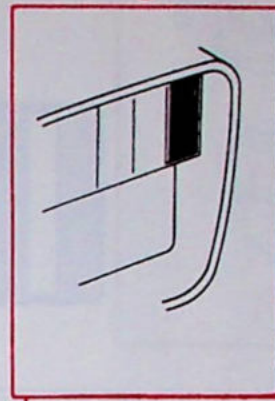
A



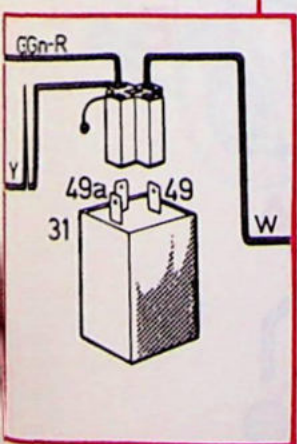
B



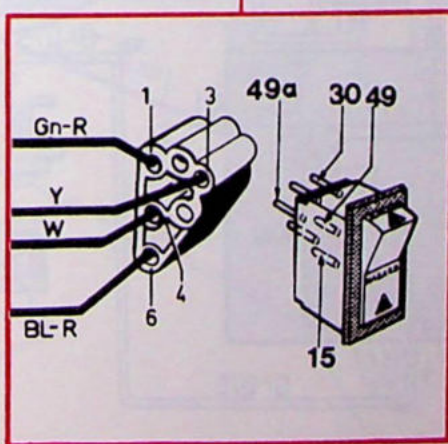
C



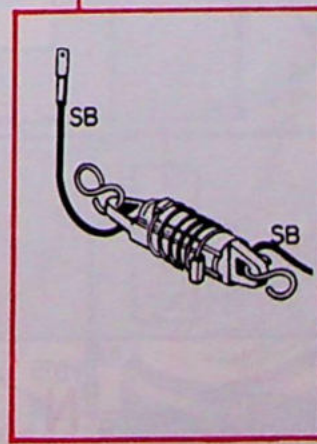
D



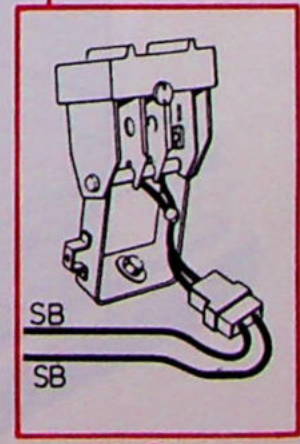
E



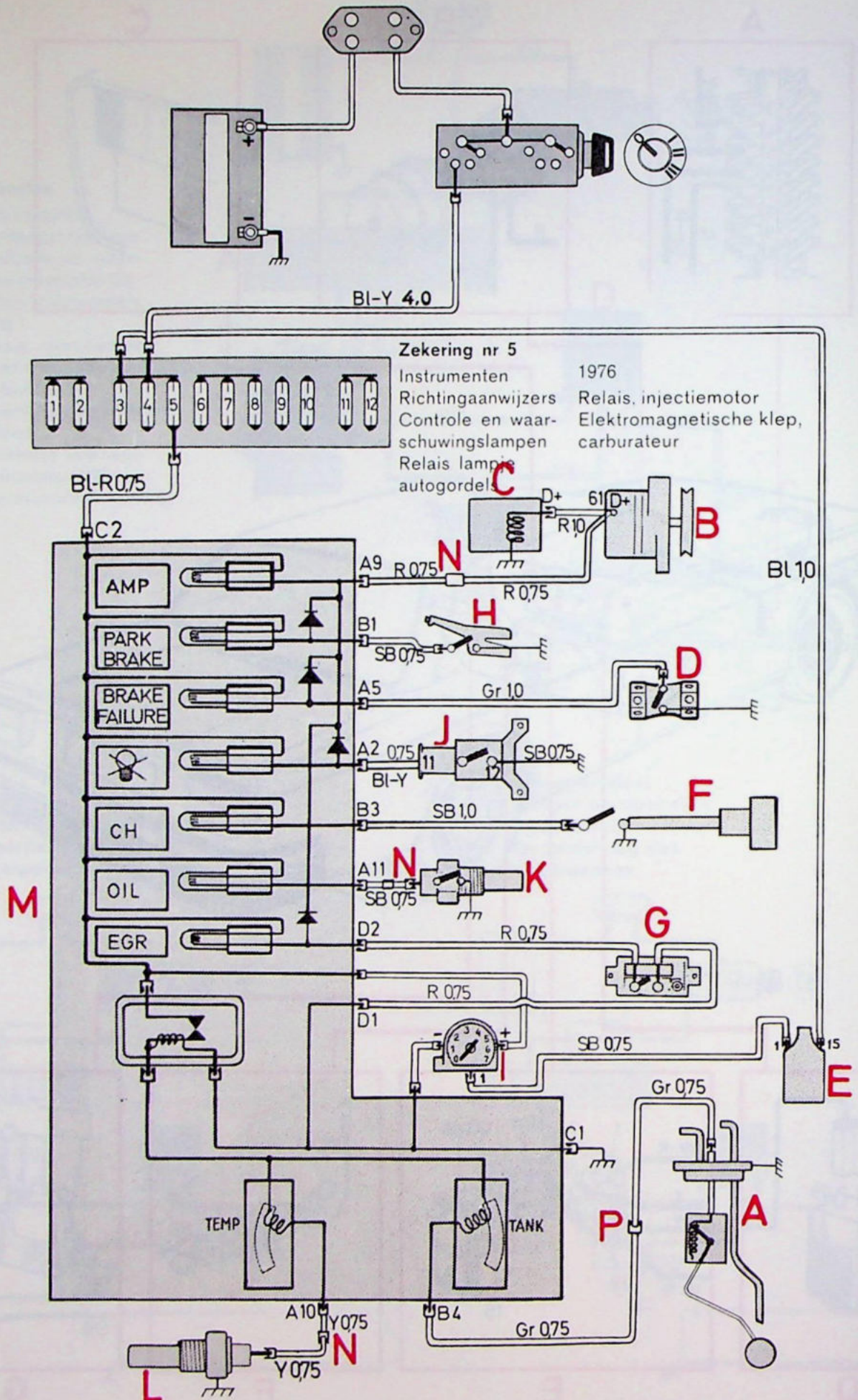
F



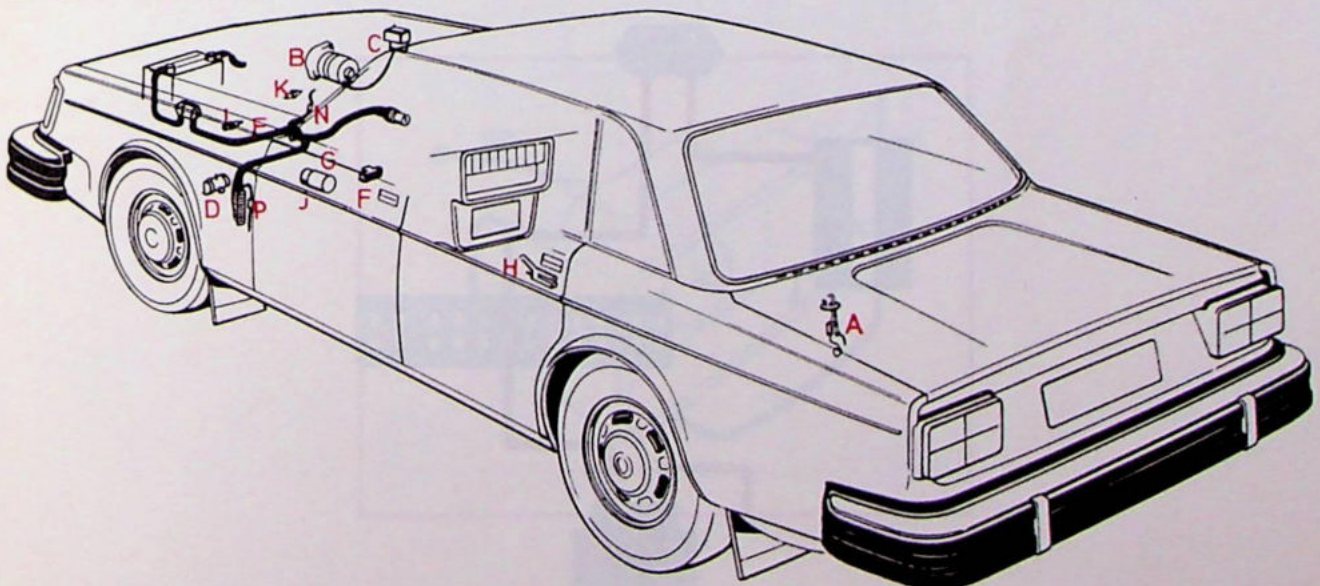
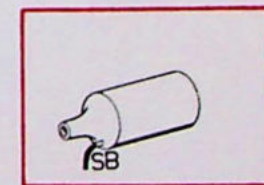
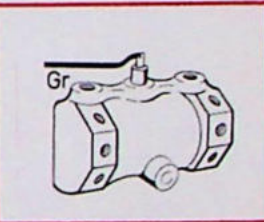
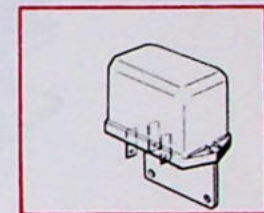
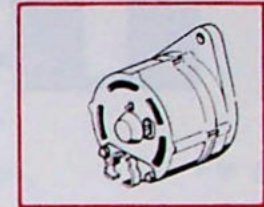
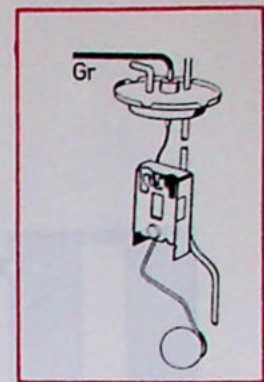
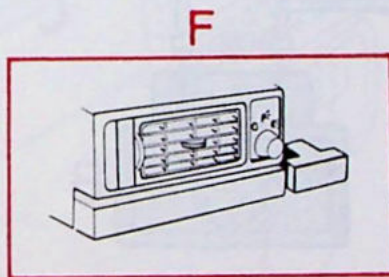
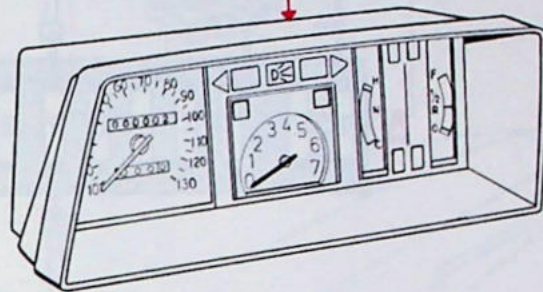
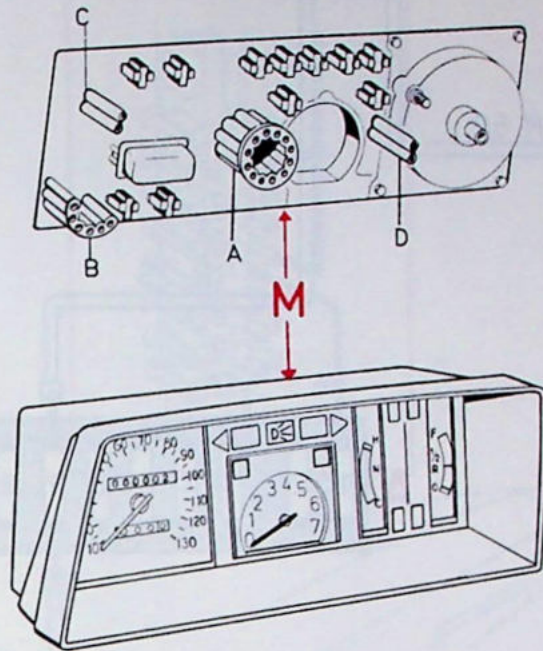
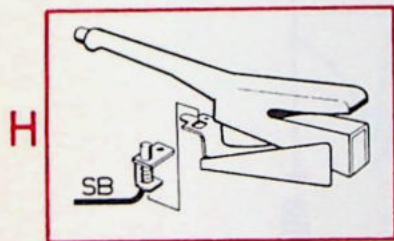
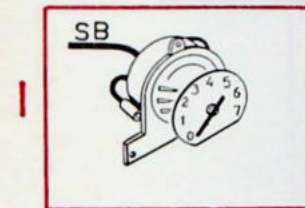
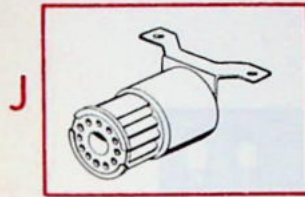
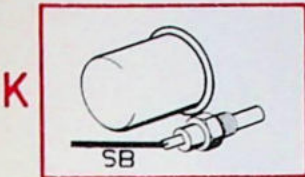
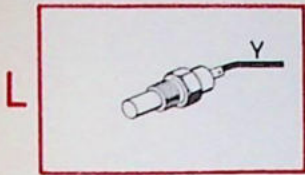
G



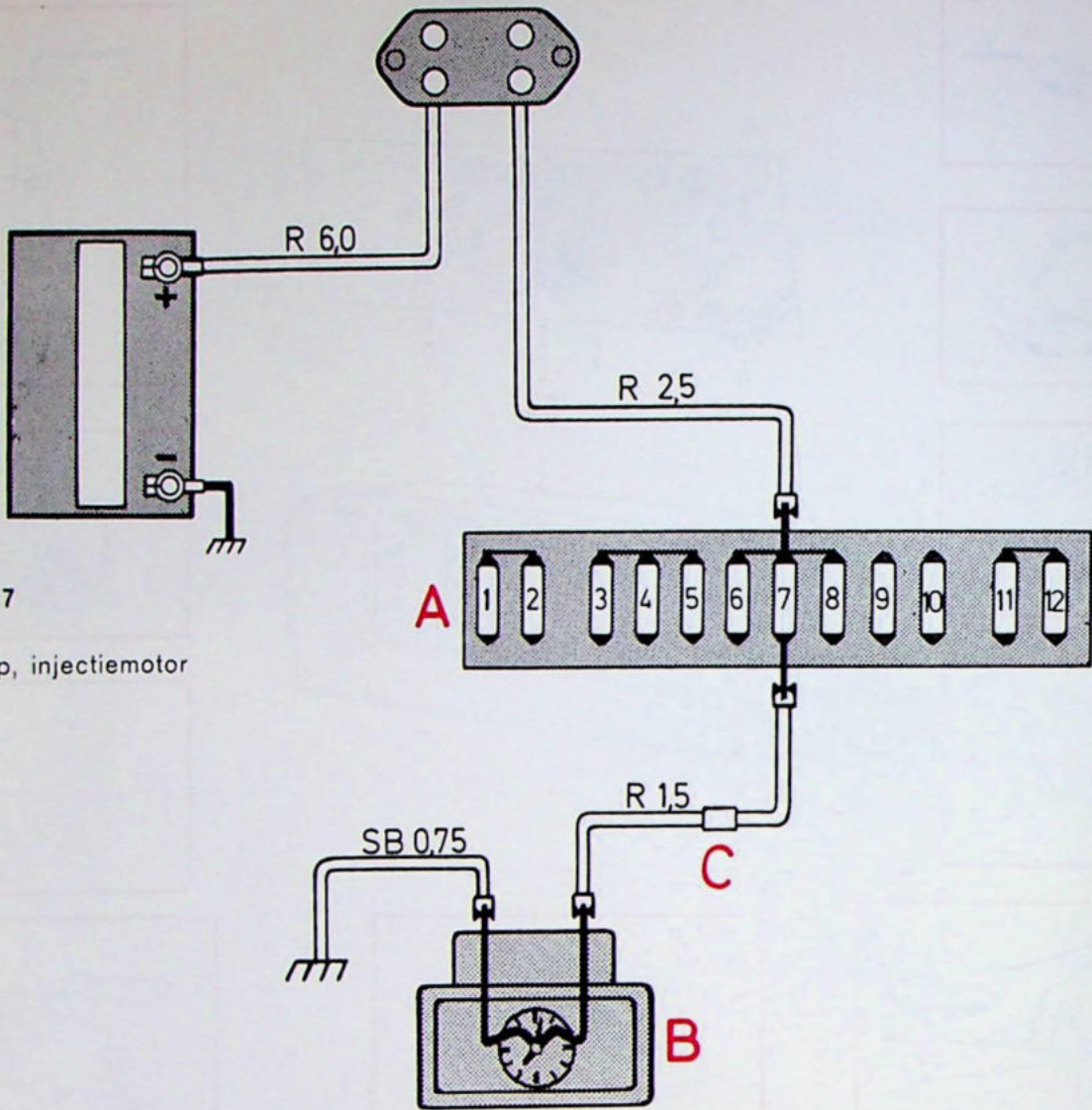
# Instrumentenpaneel



# Instrumentenpaneel

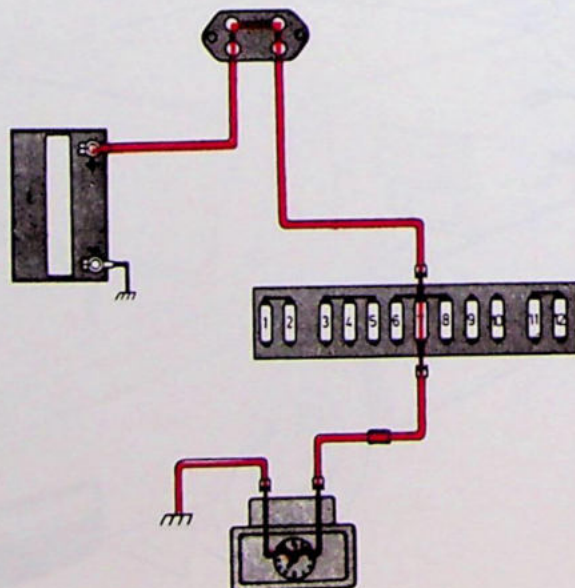


# Klokje



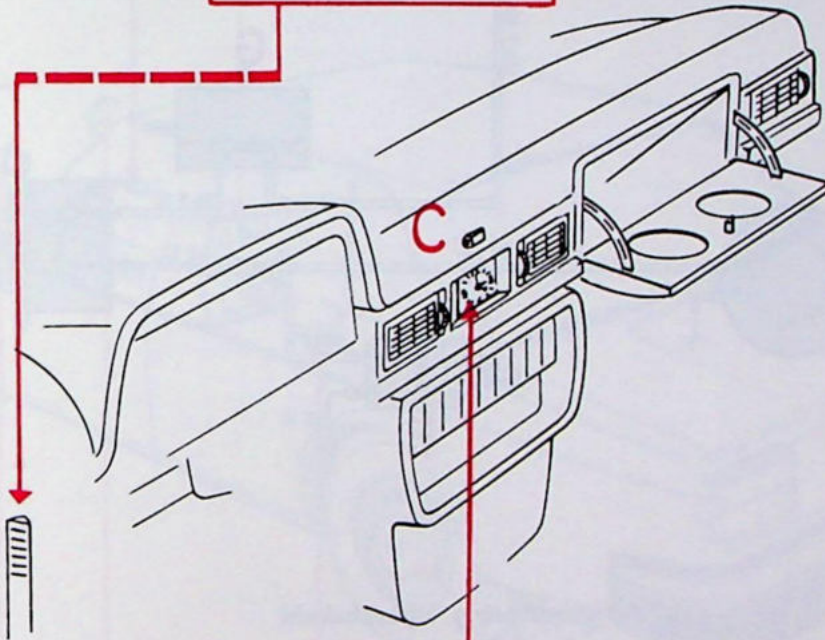
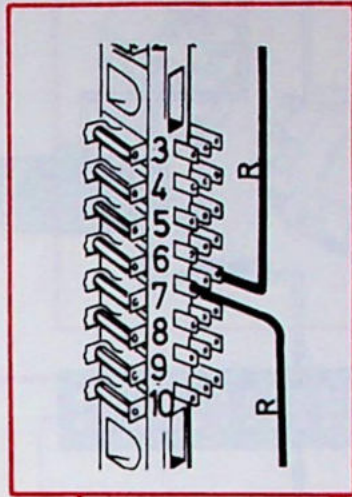
Zekering nr 7  
Klokje  
Benzinepomp, injectiemotor

## Klokje ingeschakeld

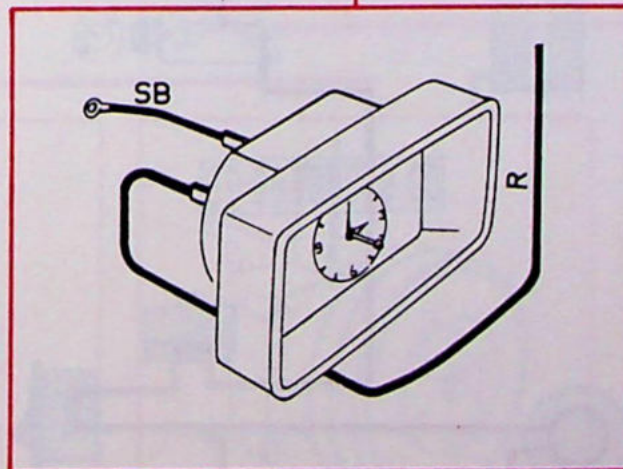


# Klokje

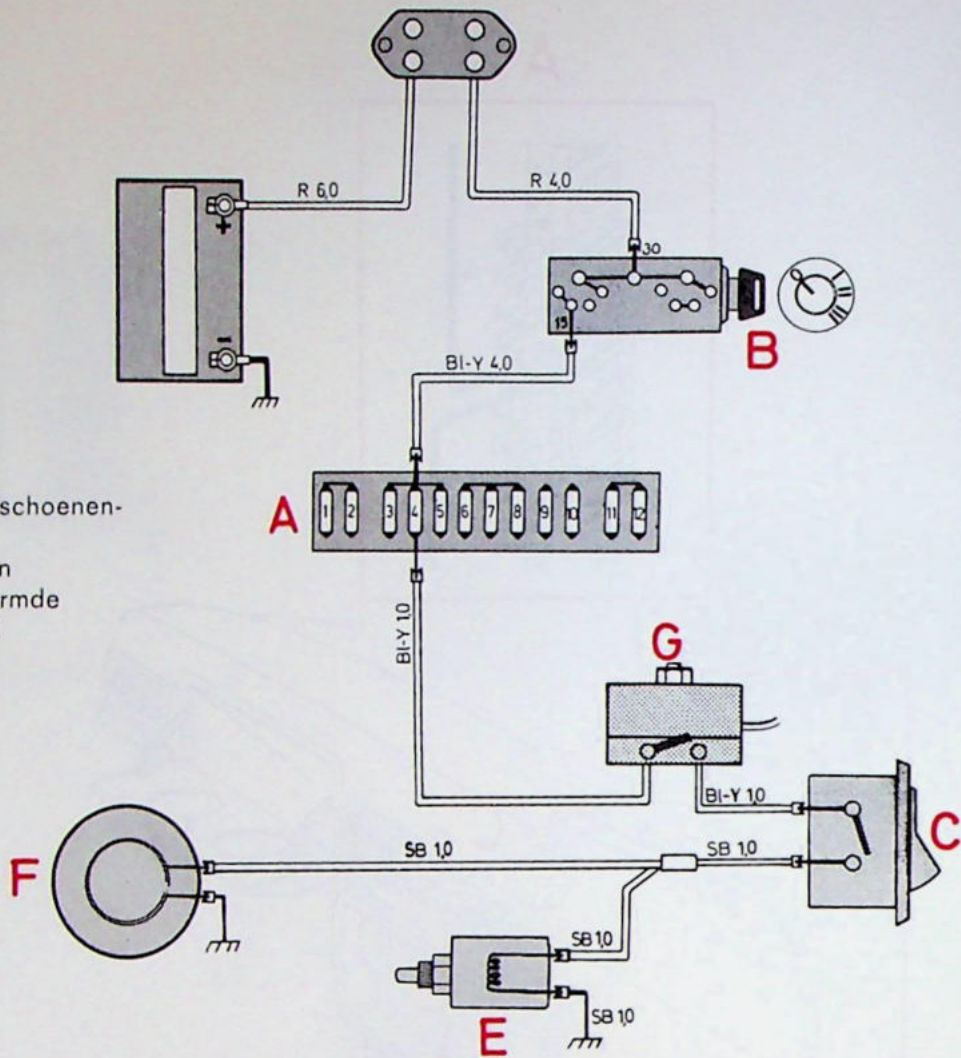
A



B



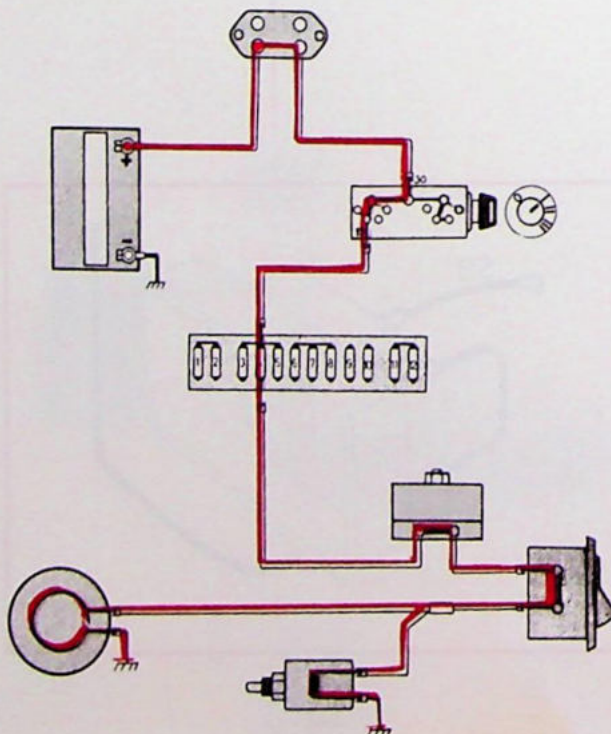
# Air-conditioning



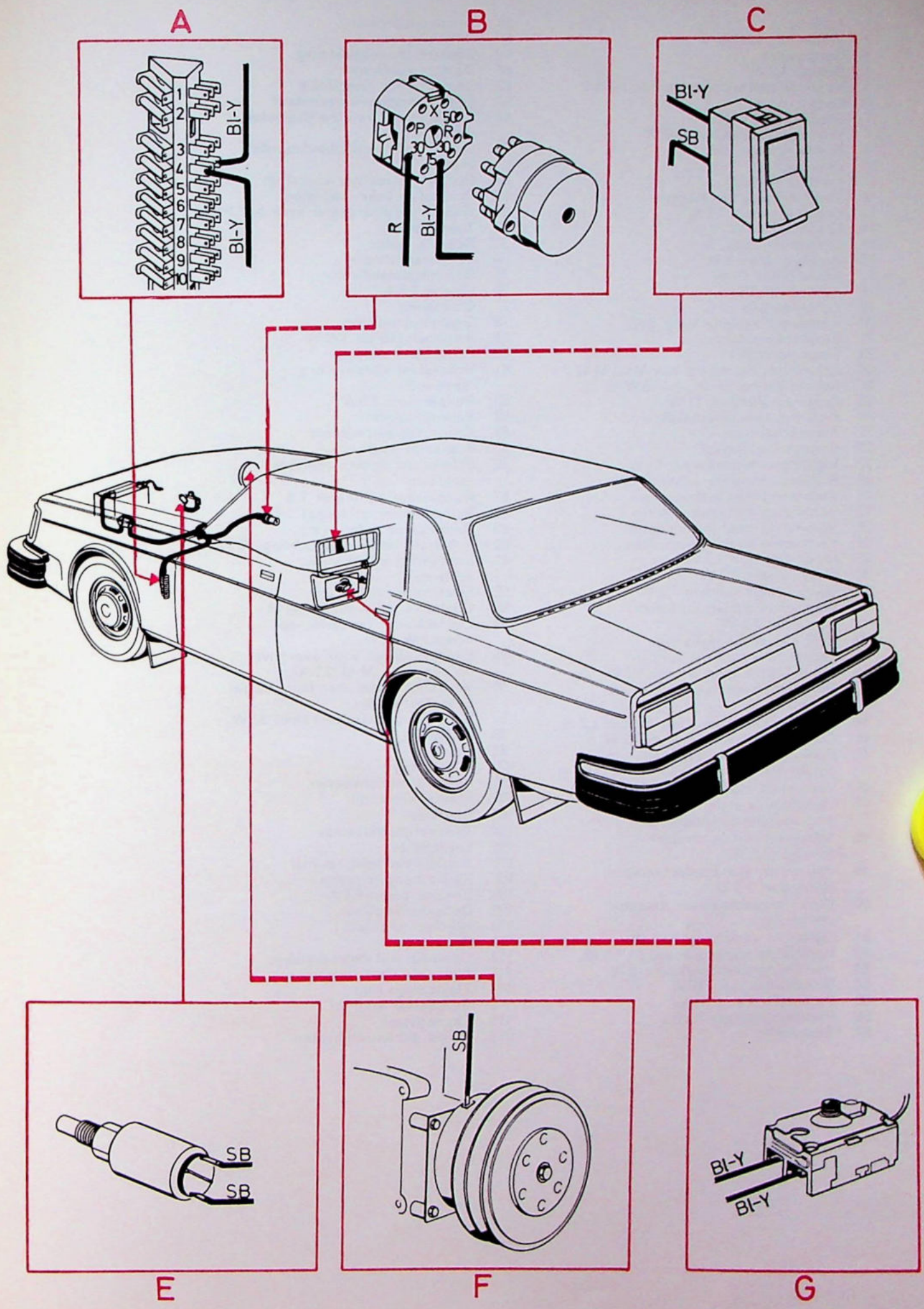
## Zekering nr 4

- Verlichting handschoenenkastje
- Achteruitrijlichten
- Elektrisch verwarmde bestuurdersstoel
- Air-conditioning

## Air-conditioning ingeschakeld



# Air-conditioning



A

B

C

E

F

G