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# Service Manual Cars

Section 3 (39)  
Wiring diagram  
S80/V70 2001  
Late edition

TP 3950202

**VOLVO**

## Vehicles with SRS (Airbag)/SIPS bag/IC (Inflatable Curtain)

### **Warning!**

Extra caution must be exercised when working on vehicles equipped with SRS/SIPS bag/IC in order to avoid:

1. Personal injuries when performing repair work.
2. Damage or malfunction of the SRS/SIPS bag/IC system.

Work involving the SRS/SIPS bag/IC systems or other components in the vehicle that may affect the SRS/SIPS bag/IC systems must always be performed by an authorised Volvo workshop.

In case of doubt, consult the SRS and SIPS bag/IC service manual.

### **Is the vehicle equipped with SRS/SIPS bag/IC ?**

Vehicles with SRS are most easily recognized by the letters SRS in the center of the steering wheel. If the vehicle also has a passenger side airbag, the letters SRS are stamped on the dashboard above the glove compartment. SRS vehicles from 1993 and onward also have explosive seatbelt tensioners. SIPS bags are only installed on SRS vehicles from 1995 and onward. SIPS bag decals are located on the windshield and seat compartment. Vehicles with IC can be recognized by the letters IC on the C/D panel (4 door) or the B panel (5 door).

### **General recommendations**

- Be especially careful when working on or around SRS, SIPS, and IC components.
- Make sure that no wires are pinched, frayed, or pierced.
- Never fit accessories by the sensors.
- Where applicable, work on the steering wheel, steering shaft, or steering gear must be done in accordance with the methods in the SRS section of VADIS.
- Certain components of the aforementioned systems must be grounded while working. Read the appropriate sections in VADIS.
- Do not install any accessories in the areas between the A and B-pillar, the B and C-pillars, and the C and D-pillars.

### **Test terminal**

Data link connector in the passenger compartment.

### **Changes introduced up to May 2000**

Any changes made to the vehicles after this date are not included in the manual. If necessary refer to Service Bulletins.

Volvo models are sold in versions adapted for different markets. These adaptations depend on factors such as legal requirements, taxation, and market demands.

This manual may therefore include illustrations and text that do not apply to the vehicles in your country.

# Contents

This manual covers the electronic functions particular to the 2001 models of the S80 and the 2001 models of the V70 from VIN 026213. For model V70 XC, VIN 001100 applies.  
Service Manual TP 3947202 applies for earlier VINs.

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**Order number TP 3950202**  
Replaces the previous manual TP 3950201

Volvo retains the right to make amendments



A number of abbreviations are used in this manual. They are explained below.

## Country/market

A	= Austria
AUS	= Australia
B	= Belgium
CDN	= Canada
CH	= Switzerland
D	= Germany
DK	= Denmark
E	= Spain
EU/OS	= Markets except USA and Canada
FIN	= Finland
GB	= Great Britain
ISR	= Israel
J	= Japan
KOR	= Korea
N	= Norway
NL	= the Netherlands
S	= Sweden
USA	= USA
WEU	= Western Europe

## Colors

BL	= Blue
BN	= Brown
GN	= Green
GR	= Gray
OR	= Orange
P	= Pink
R	= Red
SB	= Black
VO	= Violet
W	= White
Y	= Yellow

## Other

ABS	= Anti-lock Brake System
ABS STC	= Stability and Traction Control system
ABS DSTC	= Dynamic Stability and Traction Control system
ACC	= Accessories
AUDIO	= Radio
AUTO	= Automatic transmission
DENSO	= Fuel control system gas 5 cyl.
DIESEL	= Diesel
EXT.X	= Extended x feed
HISPEED	= High speed bus
LH	= Left-hand side
LHD	= Left-hand drive
LOSPEED	= Low speed bus
MAN	= Manual transmission
ME7	= Fuel control system fuel, turbo 5 and 6 cyl.
MSA 15.8	= fuel control system diesel
OTHERS	= Others
PETROL	= Gas engine
RH	= Right-hand side
RHD	= Right-hand drive
RTI	= Road Traffic Information system
SUB-WOOFER	= Sub-woofer
SRS	= Airbag
TELE	= Mobile phone
TURBO	= Turbo engine
W/O	= Without
5 CYL	= 5 cylinder engine
6 CYL	= 6 cylinder engine

# How to use the wiring diagram

The descriptions below apply in general to all wiring diagram manuals, although not all sections are necessarily contained in this manual.

## A. Component designation

Every component has a component designation that consists of two parts.

The first part is a type number that describes the type of component in question, for example 3/xx.

The second part of the designation is a serial number, for example x/2.

Combined these give a component designation, for example, 3/2.

At the end of the manual is a list of components, where, with the help of the component designation, you can read off the name of the component, for example 3/2 = Light switch.

## List of type numbers

This list shows the type of component to which each type numbers refers, for example, 3/x = switch, 6/x = electric motor, etc.

1	Battery
2	Relay
3	Switch
4	Control module
5	Combined instrument panel
6	Electric motor
7	Sensor
8	Actuator
9	Heating element
10	Lamp
11	Fuse
15	Distribution rail
16	Audio
17	Service/diagnosis
18	Contact reel
19	Meter
20	Ignition component/shunt
31	Ground connection
53	Junction point
54	Connector

## B. Junction points

The wiring diagrams contain numbered junction points, e.g. 53/352.

This manual contains a section with a list of junction points. This list shows all the components which are connected to each junction point.

The location of the junction points is shown in the "Cable harness routing in vehicle" section.

## C. Connectors

Connectors provide a bridge between two cable harnesses and are described in the "Connectors" section.

## D. Electrical distribution

Operation of fuses and relays is shown in the "Electrical distribution" section.

## E. Data communication

Today's cars contain a CAN network, which transfers information. The connections to this network are not shown in their entirety on each wiring diagram. Complete information about CAN communications can be found in the section "Data communication".

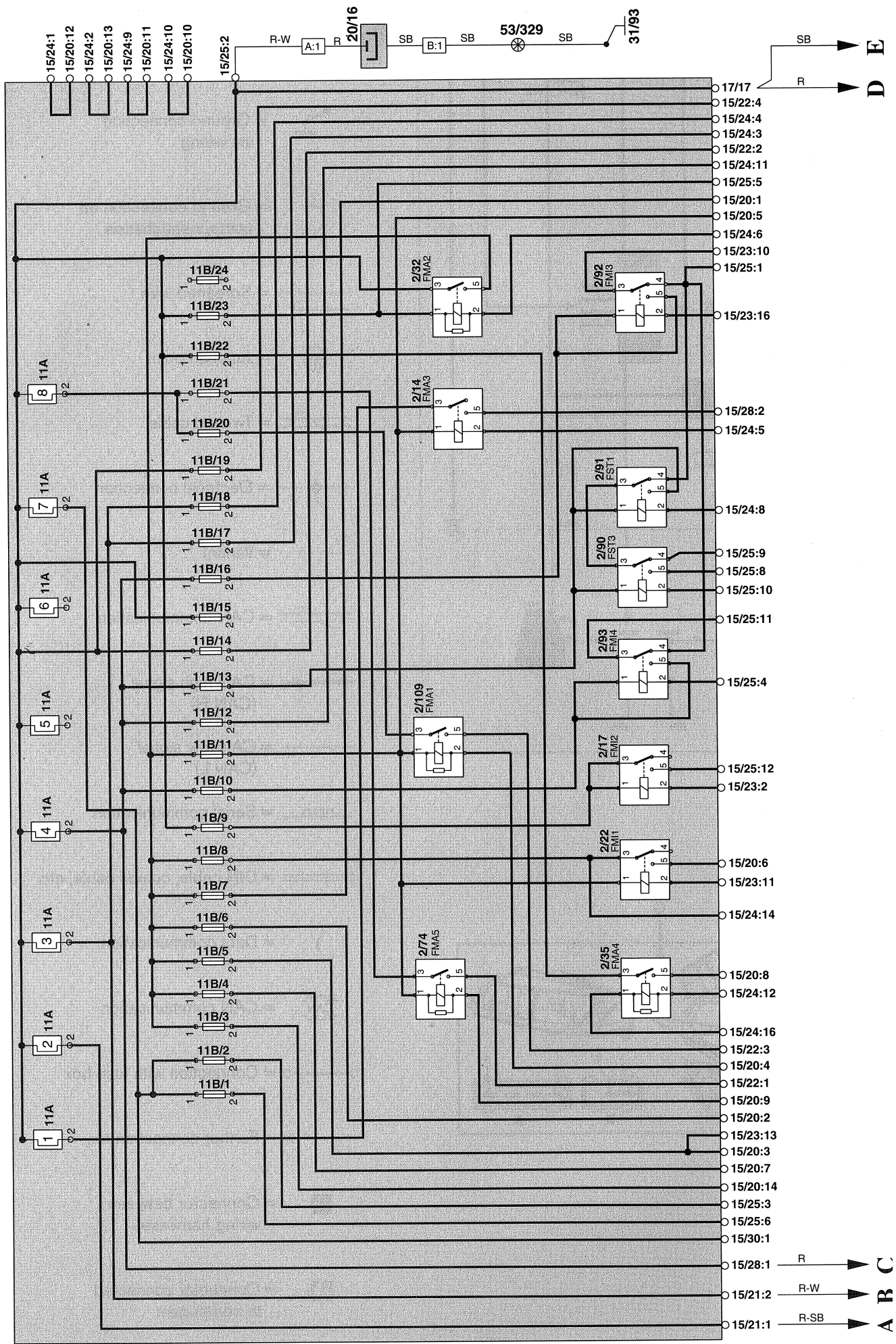
## F. Abbreviations

A number of different abbreviations are used in the manual. These are explained in the section "Abbreviations".

## G. Component location

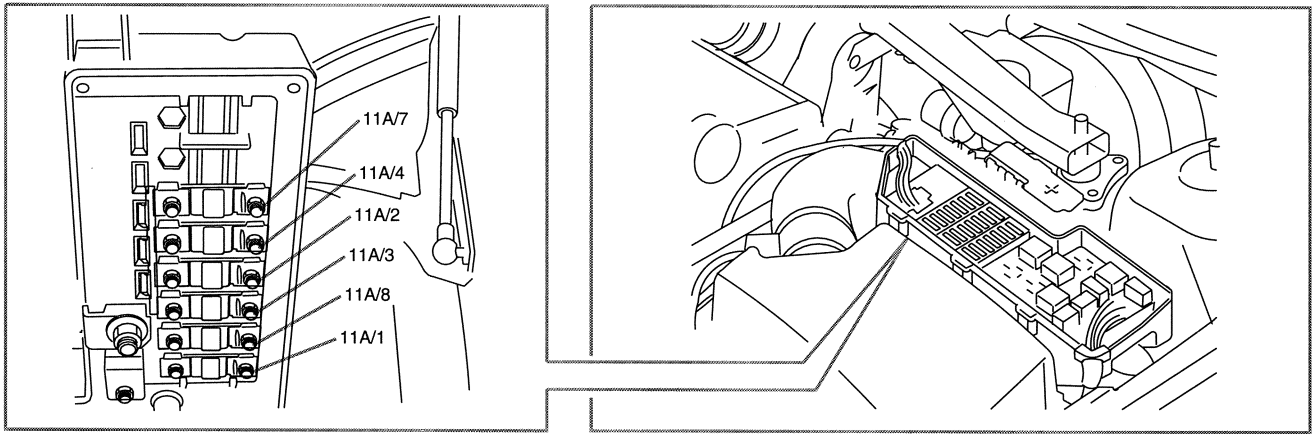
There is a section at the end of the manual in which the appearance and location of components is described in numerical order.

# Electrical distribution Overview



# Electrical distribution

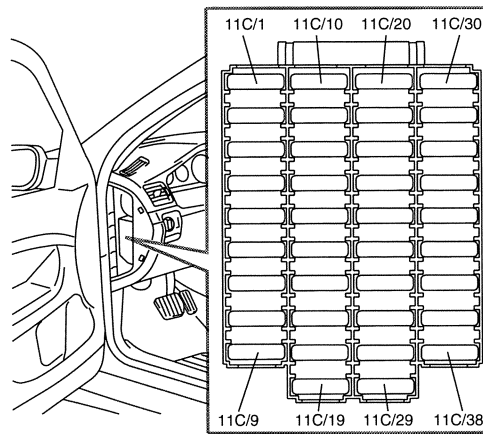
## Fuses in engine compartment



### 11A Fuses in engine compartment

No.	Fuse function	A
1	Relay, glow plug unit 2/14	60
2	Parking light relay 2/61 Fuse protection for 11C/32-37	60
3	Fuse for 11B/17-18 Fuse for 11C/3-6 Fuse for 11C/16-19 Fuse for 11C/7-9 via overload relay 2/31 15+ Fuse for 11C/12-15 via overload relay 2/30 X+	60
4	Fuse for 11B/10, 12-13, 16 Fuse for 11C/21-24 Fuse for 11C/25-29	60
5-6	-	-
7	Electric cooling fan control module 4/71 Fuses for 11 B/1-2	60
8	Fuses for 11 B/20-21	60

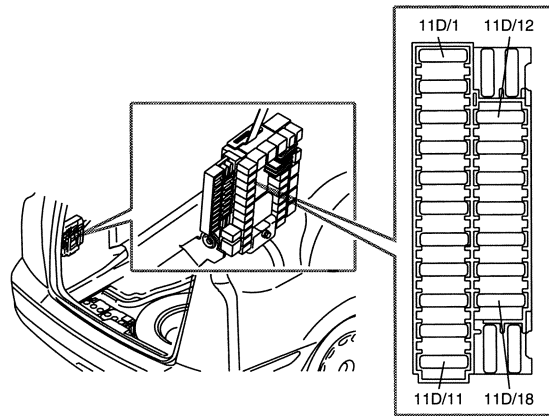
## Electrical distribution Fuses in passenger compartment



### 11C Fuses in passenger compartment

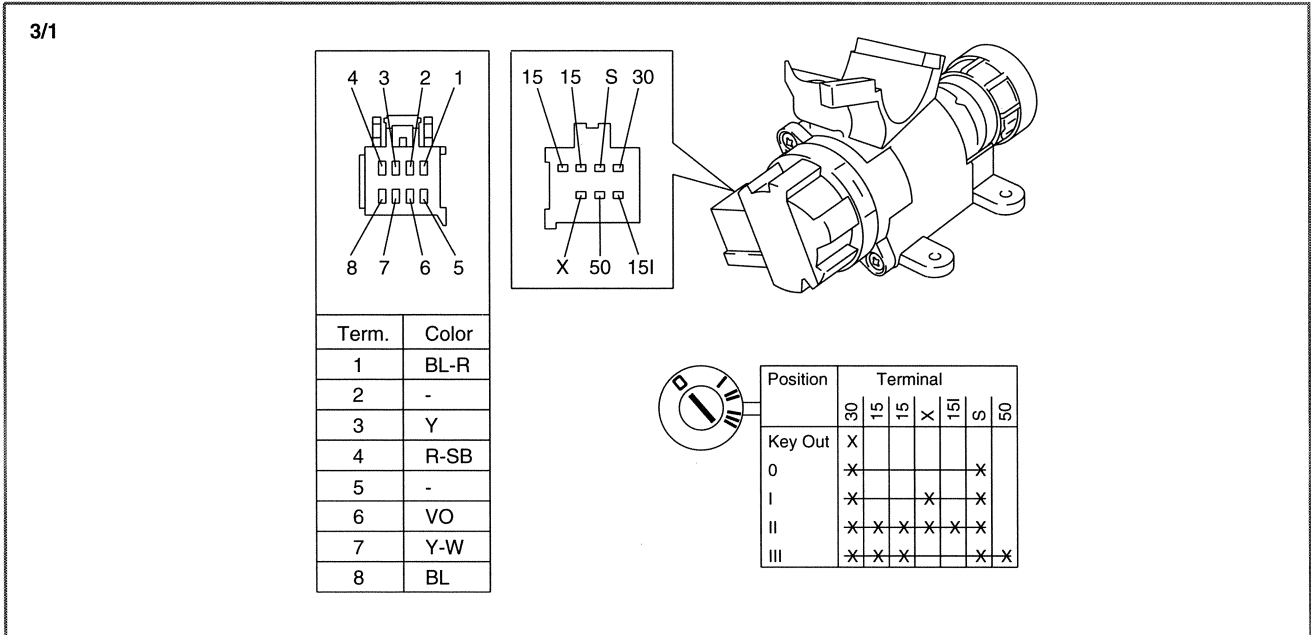
No.	Fuse function	AA
1	LH front lamp housing 10/1	10
2	RH front lamp housing 10/2	10
3	Low beam relay 2/62	15
4	High beam relay 2/63	20
5	Power Seat Module (PSM), driver's side 4/52	30
6	Power Seat Module (PSM), passenger side 3/27	30
7	LH seat heater 9/12	15
8	RH seat heater 9/13	15
9	ABS control module 4/16 Control module, steering wheel angle sensor 4/68	5
10	LH high beam 10/68	15
11	RH high beam 10/64	15
12	RH/LH headlight wiper motor 6/3-4 LH/RH beam adjustment actuator 6/38-39	15
13	Cigarette lighter/12V outlet, front 9/1 Cigarette lighter/12V outlet, rear 9/25	20
14	Seat belt lock switch, LH seat 3/93 Seat belt lock switch, RH seat 3/94 Power Seat Module (PSM), passenger side 3/27 Central Electronic Module (CEM) 4/56 SRS control module 4/9	5
15	Radio 16/1 RTI Display 16/46	5
16	Radio 16/1	20
17	Amplifier 16/2	30
18	Fog light relay, front 2/34	15
19	RTI Display 16/46	10
20	Control module, battery disconnect AEM 4/78	5
21	Relay, extended X feed, automatic transmission 2/101	10
22	Central Electronic Module (CEM) 4/56	20

## Electrical distribution Fuses in cargo area/compartament



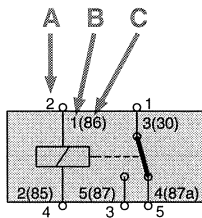
### 11D Fuses in cargo area/compartament

No.	Fuse function	A
1	Rear Electronic Module (REM) 4/58	10
2	Rear Electronic Module (REM) 4/58	10
3	Brake light relay 2/79	15
4	Reversing light relay 2/80	10
5	Relay, heated rear window 2/82 Relay, 15 feed, rear accessories 2/52	5
6	Trunk lid opening relay 2/67 S80 Tailgate locking relay 2/86 V70 Tailgate unlocking relay 2/87 V70	10
7	Relay, adjustable head restraint, rear 2/75 S80 Shunt 12V outlet cargo area 20/39 V70	10 15
8	Lock unit LH/RH rear door 3/76-77 Locking/unlocking relay, fuel filler flap 2/58-59	15
9	Towbar wiring	15
10	CD changer 16/15 S80 CD-ROM player RTI 16/48 RTI control module 16/45 Pager alarm 4/79	10
11	Control module, battery disconnect AEM 4/78	15
12	Rear window wiper motor 6/32	15
13	Sub-woofer 16/79	15
14	-	-
15	15 feed towbar wiring	20
16-17	-	-
18	Fuel preheater relay 2/142	10



## Relays, general

Two or three different designations for relay positions are given in the diagrams. These are described below.



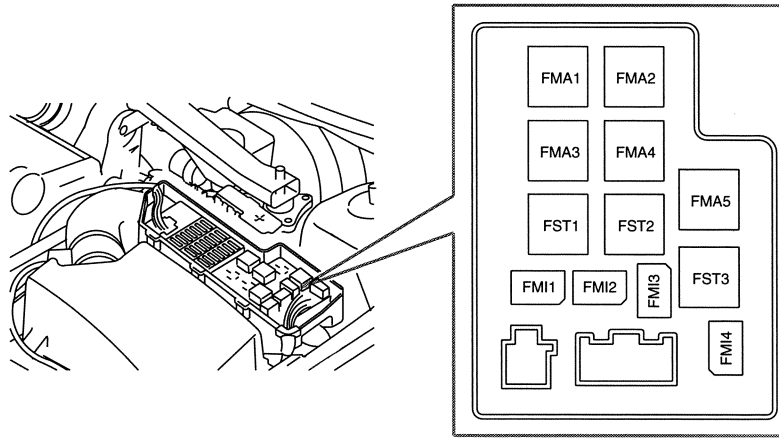
A = Corresponds to the position on the rear of the relay box (wiring side).

B = Corresponds to the position on the relay.

C = Is an old designation that can be on the relay.

# Electrical distribution

## Relays in the engine compartment



## Relays in the engine compartment

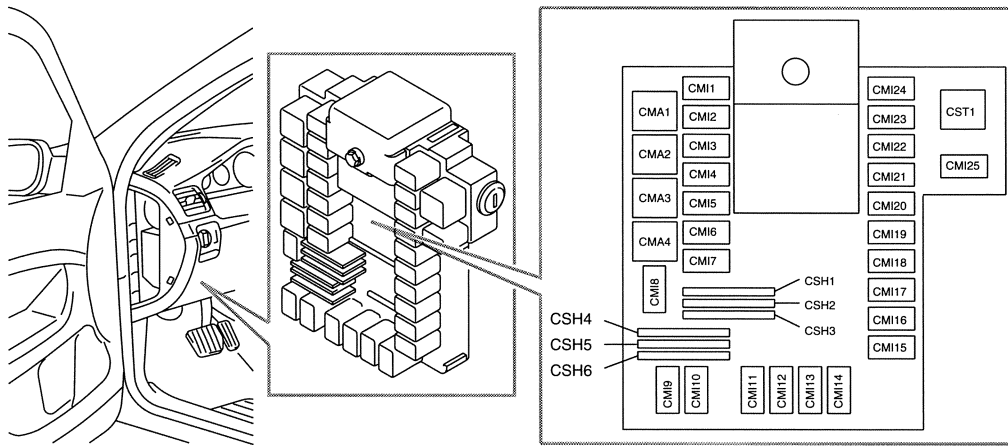
Pos	Relay operation
FMA1	Relay, coolant heater 1 2/109
FMA2	Engine control module main relay 2/32
FMA3	Relay, glow plug unit 2/14
FMA4	Starter motor relay 2/35
FMA5	Relay, coolant heater 2 2/74
FMI1	AC relay 2/22
FMI2	Horn relay 2/17
FMI3	Relay, windshield washer motor 2/92
FMI4	Relay, rear window washer motor 2/93
FST1	Relay, intermittent windshield wiper 2/91
FST2	-
FST3	Relay, windshield wiper, low/high speed 2/90

## Other relays

Pos	Relay operation
LH rear door	Door blocking relay, LH rear 2/138
RH rear door	Door blocking relay, RH rear 2/139



# Electrical distribution Relays in the passenger compartment

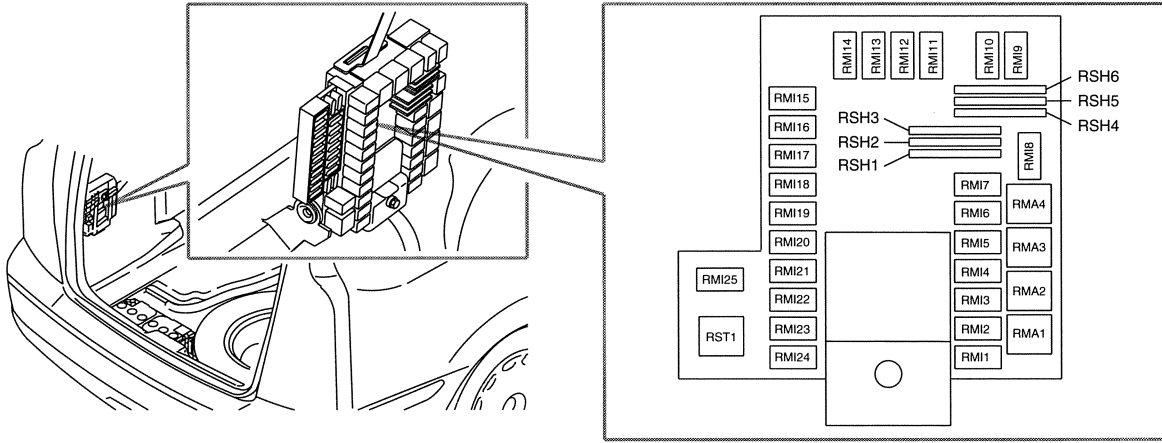


## Relays in the passenger compartment

Pos	Relay operation
CMA1	-
CMA2	X feed overload relay 2/30
CMA3	15-feed overload relay 2/31
CMA4	-
CMI1	Relay, power window up, LH rear 2/116
CMI2	Relay, power window down, LH rear 2/118
CMI3	Relay, power window childlock, rear door 2/120
CMI4	High beam relay 2/63
CMI5	Parking light relay 2/61
CMI6	-
CMI7	Low beam relay 2/62
CMI8-10	-
CMI11	Fog light relay, front 2/34
CMI12	Fuel pump relay 2/23
CMI13-20	-
CMI21	Relay, extended X feed, automatic transmission 2/101
CMI22	Relay, extended X feed 2/29
CMI23	Relay, power window down, RH rear 2/119
CMI24	Relay, power window up, RH rear 2/117
CMI25	-
CSH1	Shunt, LH direction indicator CEM 20/32
CSH2	Shunt, RH direction indicator CEM 20/34
CSH3	-
CSH4	Shunt, low beam CEM 20/27
CSH5-6	-
CST1	-

## Electrical distribution

### Relays in the cargo area/compartment



### Relays in the cargo area/compartment

Pos	Relay operation
RMA1	Relay, 15 feed, rear accessories 2/52
RMA3	Relay, heated rear window 2/82
RMI1	Locking relay, LH rear 2/111
RMI2	Unlocking relay, LH rear 2/112
RMI3	Relay, deadlock, rear doors 2/115
RMI4	Reversing light relay 2/80
RMI5	Brake light relay 2/79
RMI6	Relay, rear fog light 2/49
RMI7	Relay, fog light, trailer 2/83
RMI11	Relay, pager alarm 1 2/136
RMI12	Relay, pager alarm 2 2/137
RMI13	Relay, rear window wiper 2/72 V70
RMI14	Relay, adjustable head restraint, rear 2/75 S80
RMI16	Relay, rear window intermittent wiper 2/16 V70
RMI19	Tailgate unlocking relay 2/87 V70
RMI20	Trunk lid opening relay 2/67 S80 Tailgate locking relay 2/86 V70
RMI21	Unlocking relay, fuel filler flap 2/59
RMI22	Locking relay, fuel filler flap 2/58
RMI23	Unlocking relay, RH rear 2/114
RMI24	Locking relay, RH rear 2/113
RHS2	Shunt, fog light REM 20/29
RSH3	Shunt, 12V outlet cargo area REM 20/39 V70
RSH4	Shunt, parking light REM 20/28
RSH5	Shunt, parking light/tail light REM 20/33
RSH6	Shunt, brake light REM 20/31

## Electrical distribution Ground connections

<b>31/1</b>
Washer fluid level monitor 7/5:4
Coolant level monitor 7/73:2
Windshield washer pump 6/2:4
Direction indicator, RH front fender 10/16:1

<b>31/2</b>
Electric cooling fan control module 4/71A:2

<b>31/3</b>
Battery 1/1

<b>31/4</b>
Ground connection engine - body 31/44

<b>31/5</b>
Heated rear window 9/2:2 S80

<b>31/6</b>
Central Electronic Module (CEM) 4/56E:1 LHD
Fan control module 4/31A:4 RHD
Junction point 53/405
-X feed overload relay 2/30:4
-15-feed overload relay 2/31:4
-hazard warning flasher switch 3/6:5
-antenna ring/ignition switch lighting 16/65:6
-entry lighting, LH front 10/125:4
-Gear Shift Module (GSM), automatic transmission 3/156A:6
Connector 54/13:22
-glove compartment lighting 10/29:2 RHD

<b>31/10</b>
Fan control module 4/31A:4 LHD
Central Electronic Module (CEM) 4/56E:1 RHD
Junction point 53/406
-cigarette lighter/12V outlet, rear 9/25:3
-entry lighting, RH front 10/126:4
-cigarette lighter/12V outlet, front 9/1:2
-glove compartment lighting 10/29:2 LHD

<b>31/44</b>
Ground connection LH side member 31/4

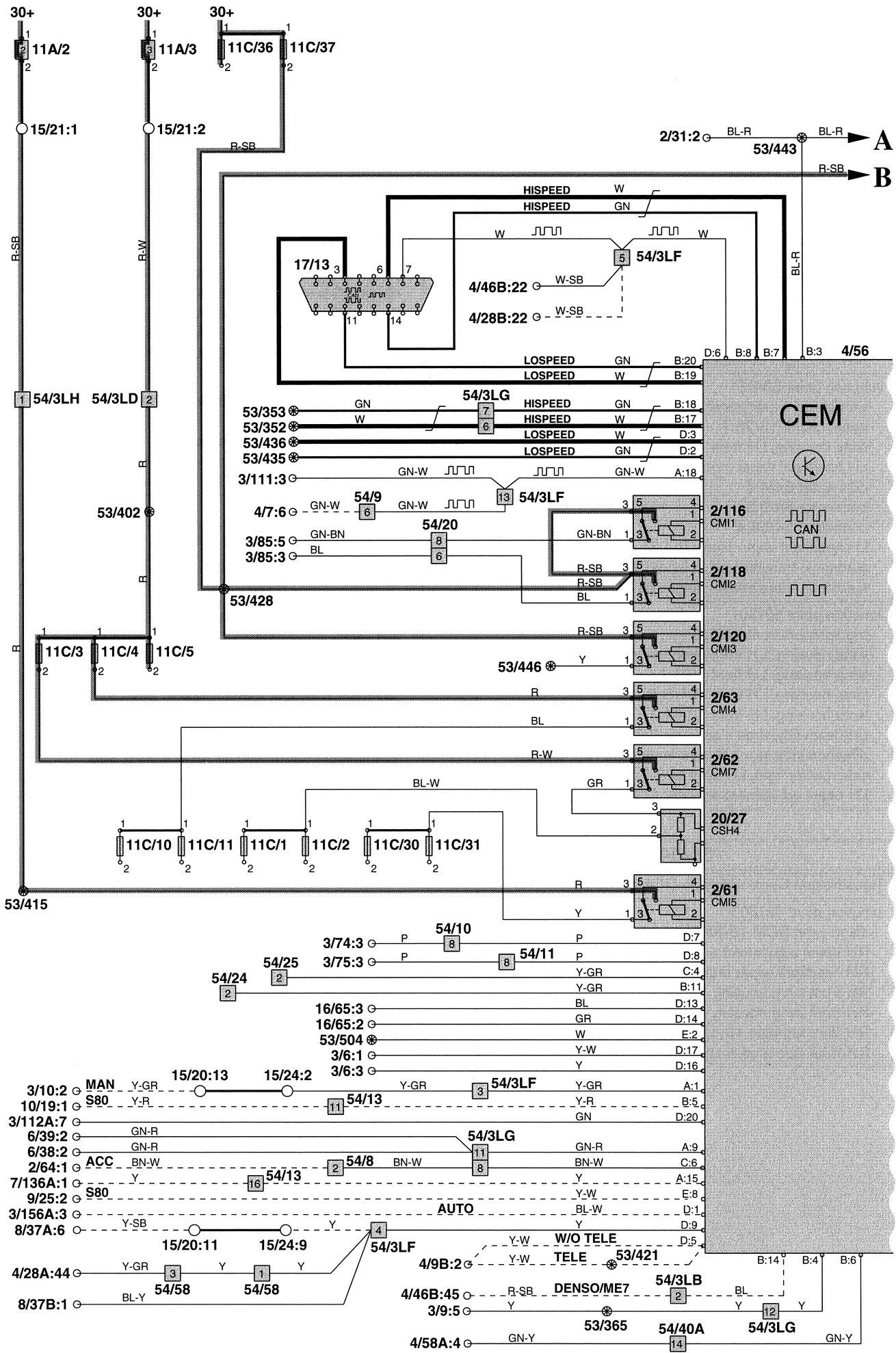
<b>31/47</b>
Fuel pump 6/33:4

<b>31/48</b>
Connector 54/66A:2 V70
Mobile phone 16/60A:12

<b>31/66</b>
Connector 54/10:12 RHD
Junction point 53/510 LHD
-connector 54/10:12 LHD
-Power Seat Module (PSM), driver's side 4/52B:4 LHD
Junction point 53/500
-Power Seat Module (PSM), driver's side 4/52A:2 LHD
-LH seat heater 9/12:5
-connector 54/10:11
-connector 54/20:12
-connector 54/24:13

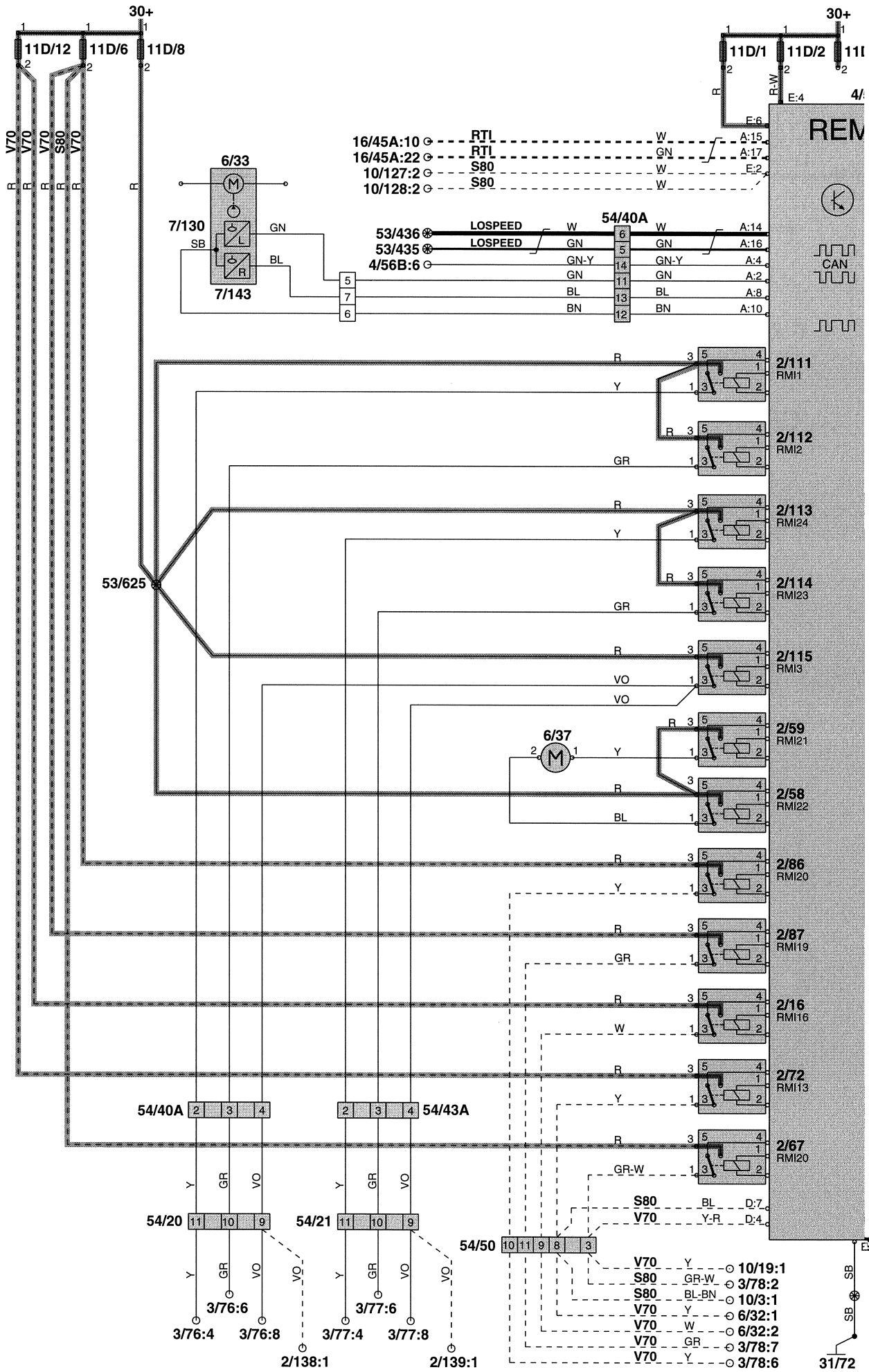
# Electrical distribution

## Central Electronic Module (CEM)



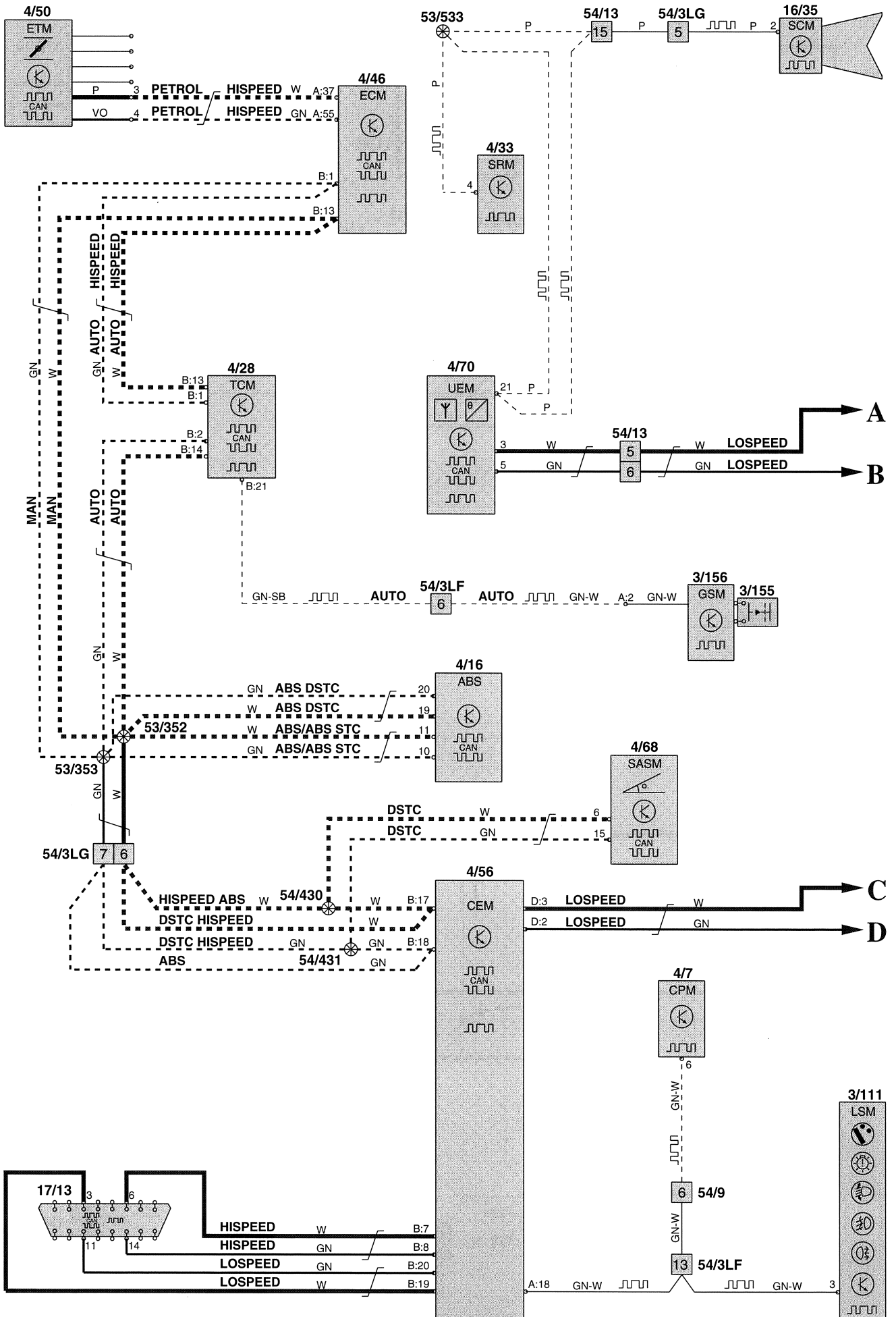
# Electrical distribution

## Rear Electronic Module (REM)



# Electrical distribution

## Data communication



## Connectors 54/1B - 54/3LA

### 54/1B Diesel 1 pin gray Engine compartment harness - Engine harness

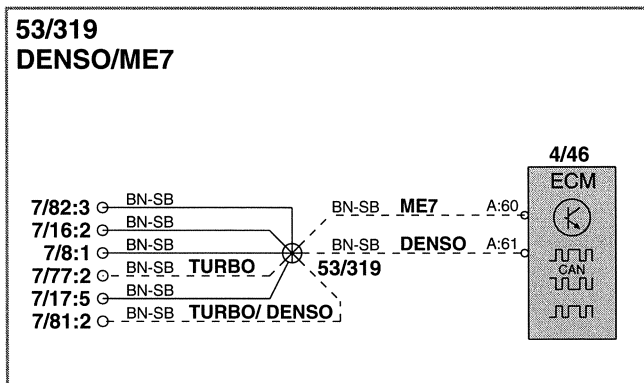
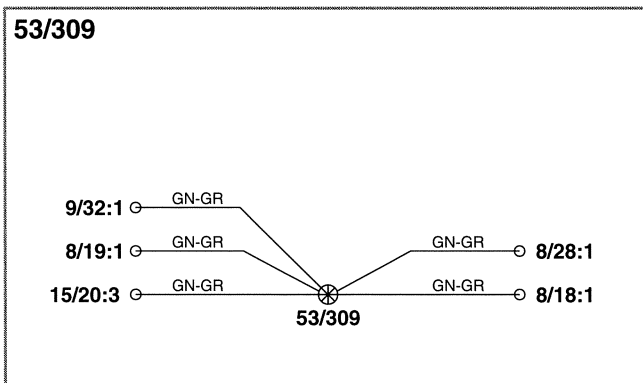
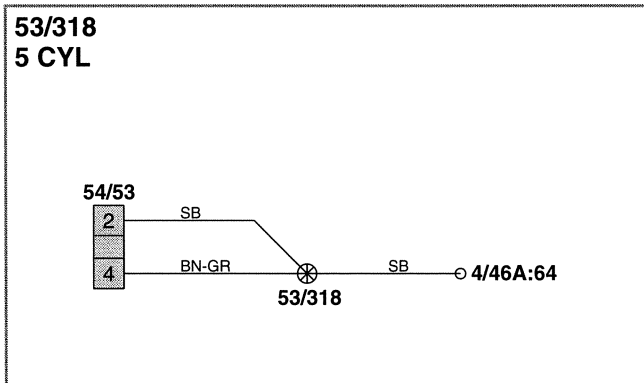
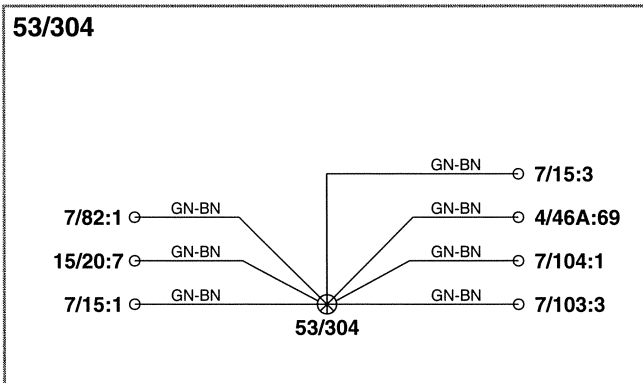
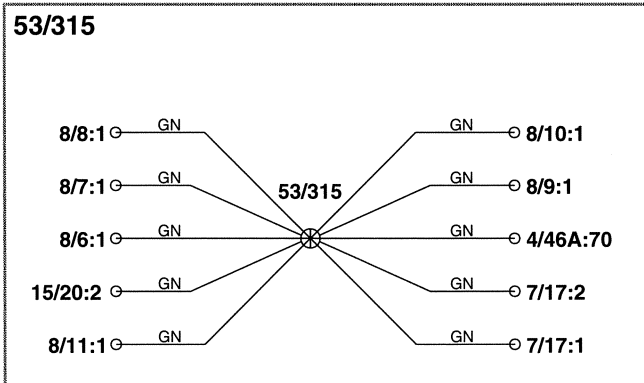
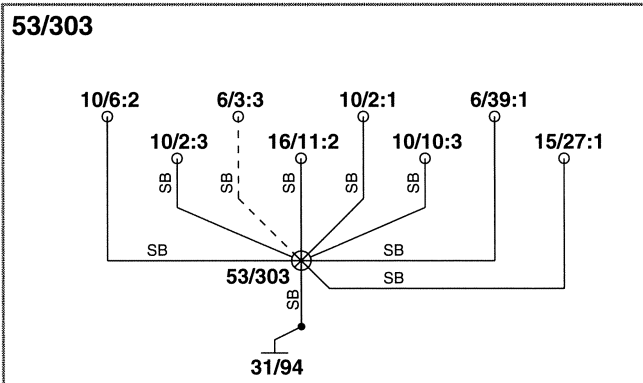
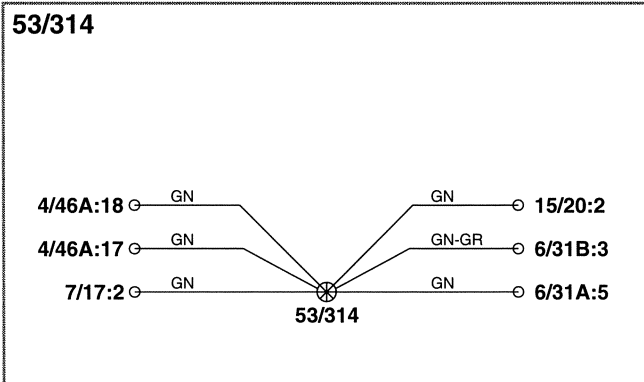
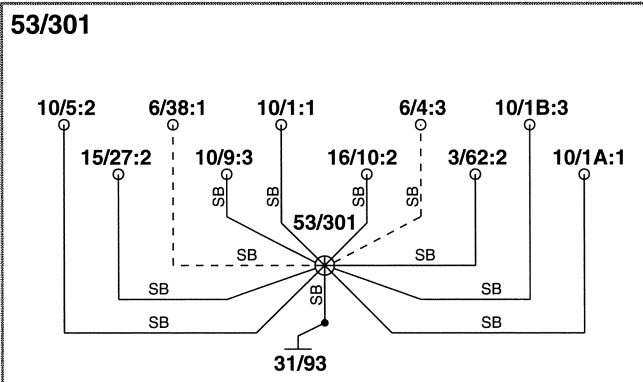
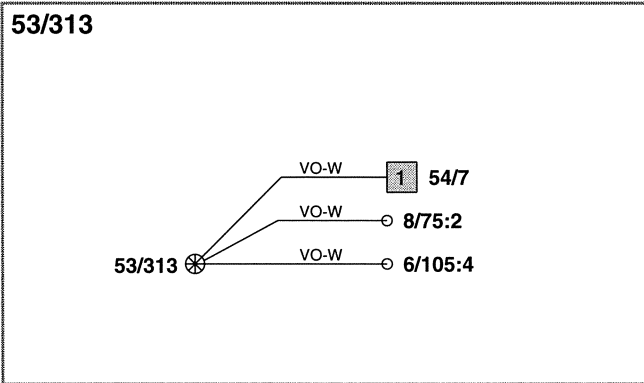
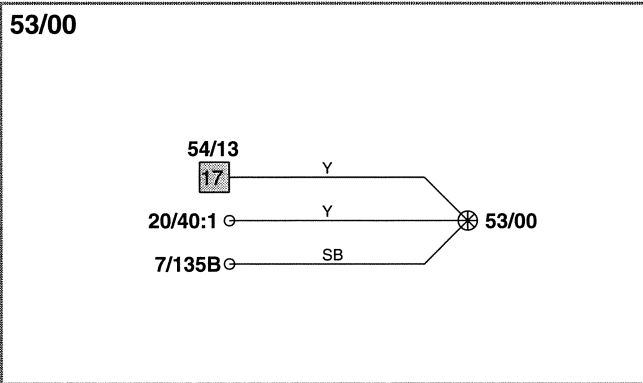
No.	Engine compartment harness		Engine harness	
1	Distribution rail glow plug 15/18	R	Relay, glow plug unit 2/14	R-W

### 54/1C Diesel 2 pin dark gray Engine compartment harness - Engine harness

No.	Engine compartment harness		Engine harness	
1	Coolant heater 1 9/26	R-W	Relay, coolant heater 1 2/74	R
2	Coolant heater 2 9/27	R-W	Relay, coolant heater 2 2/109	R-W

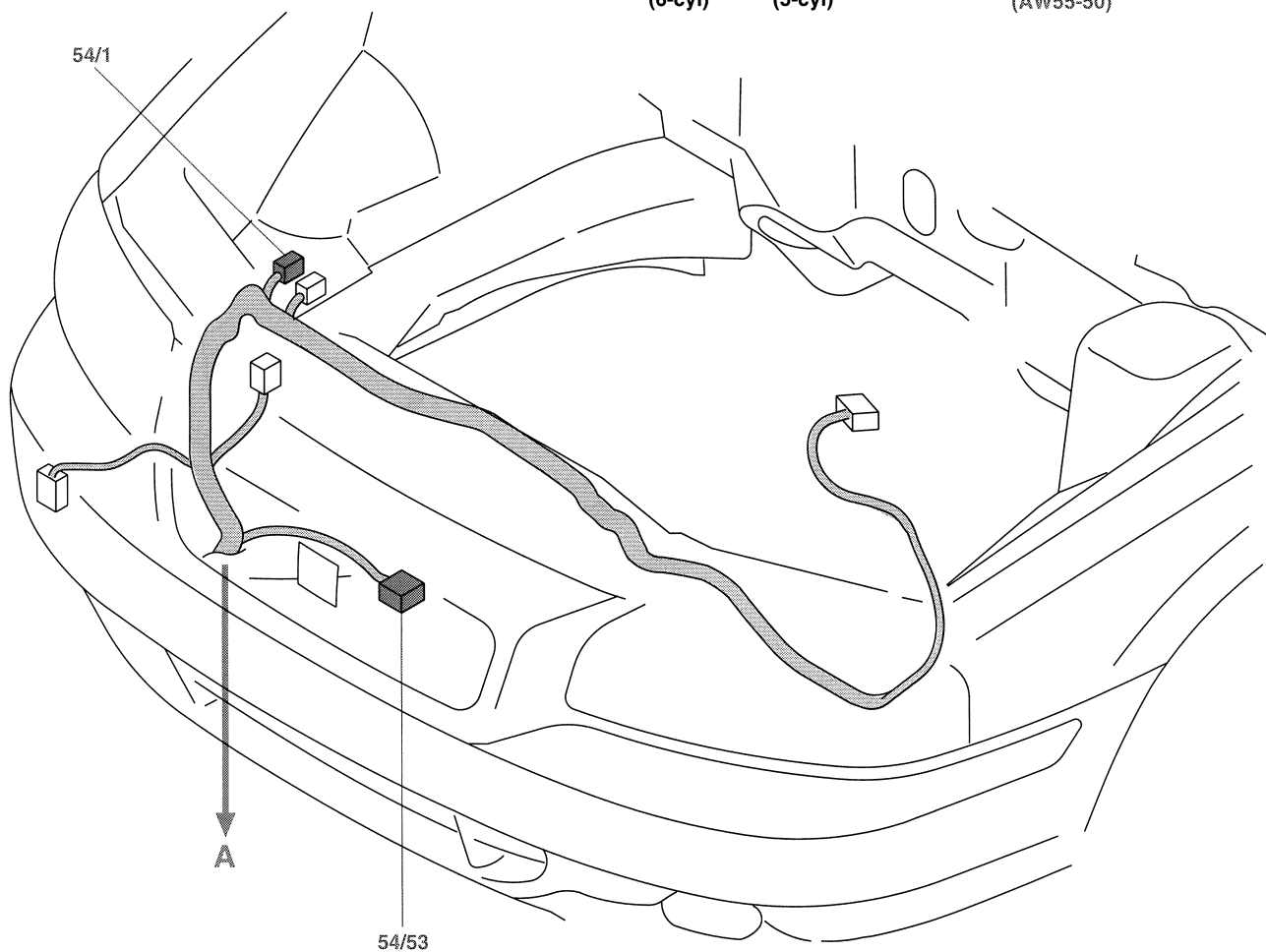
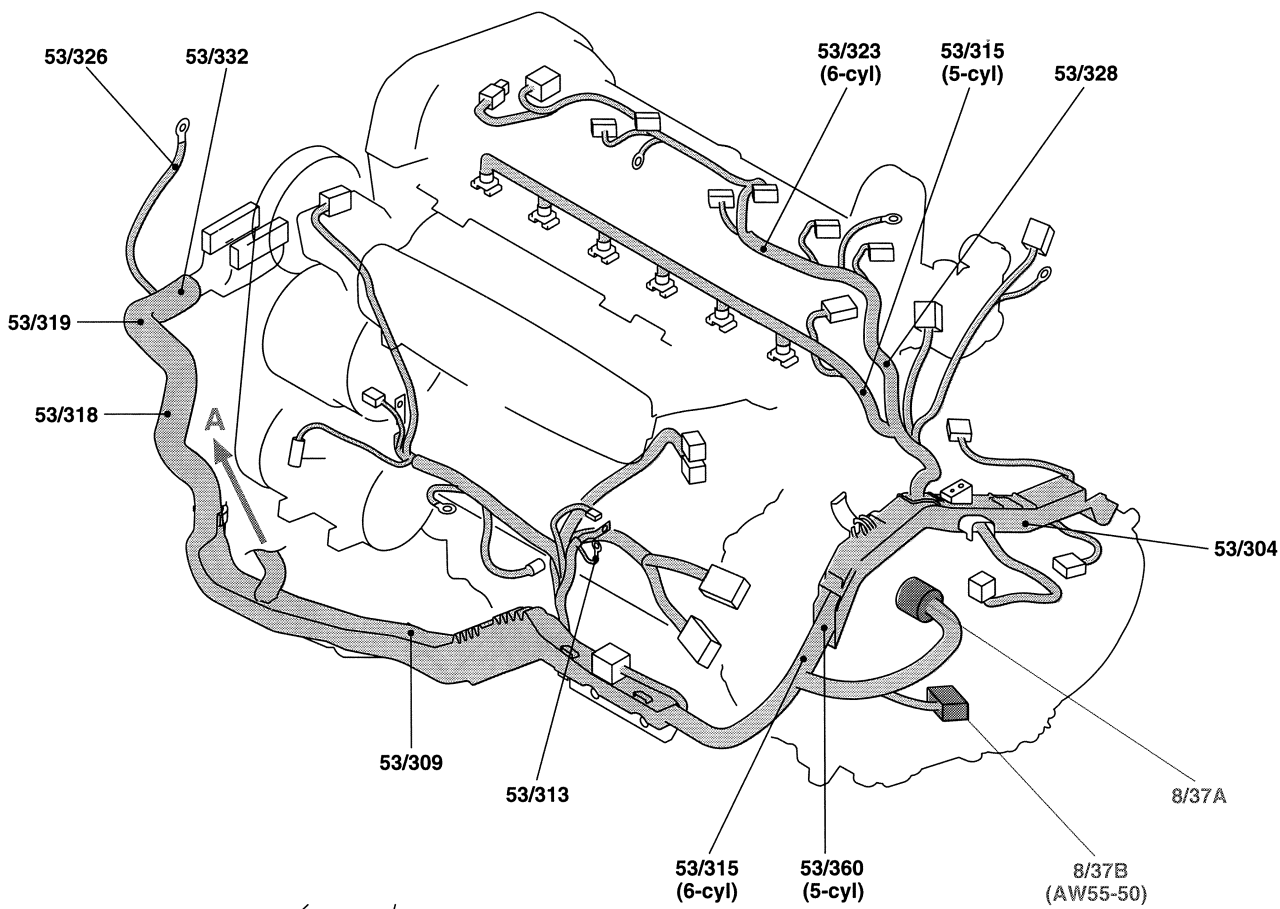
### 54/3LA 13 pin white Passenger compartment harness - Engine compartment harness

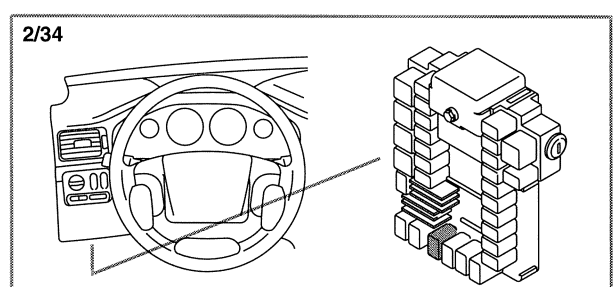
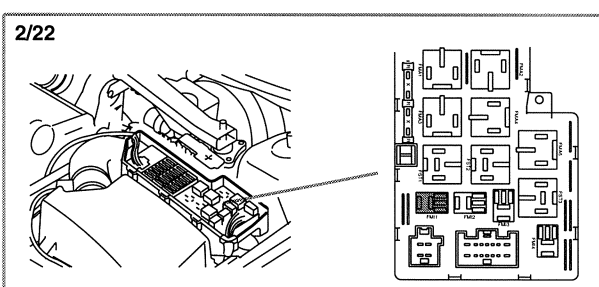
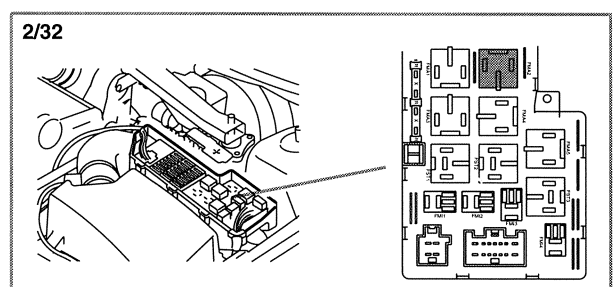
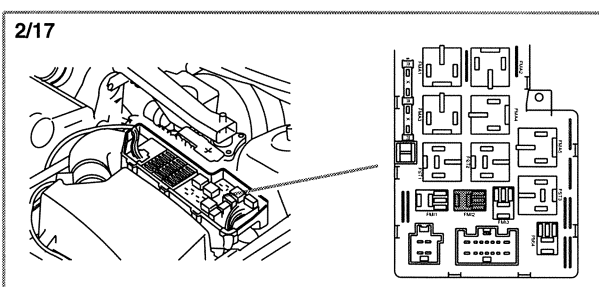
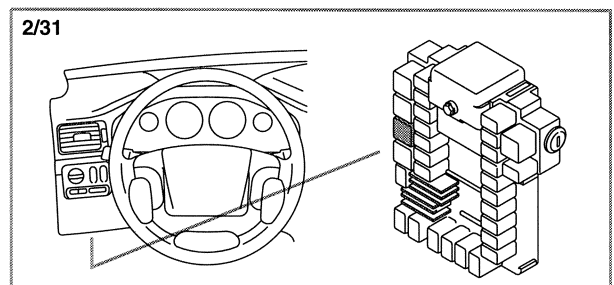
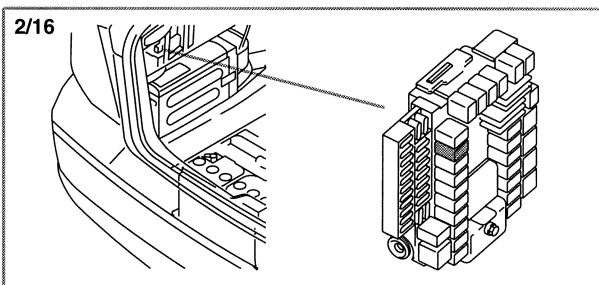
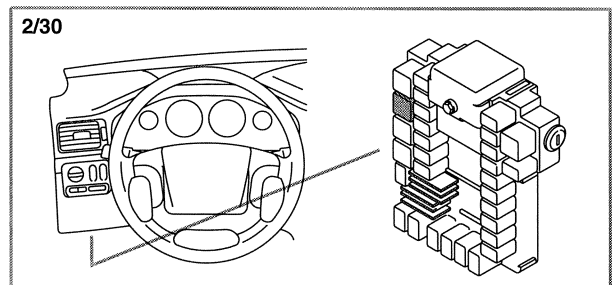
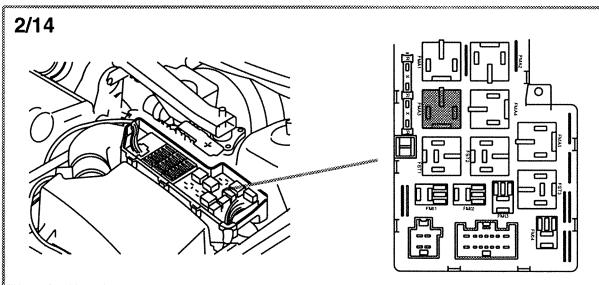
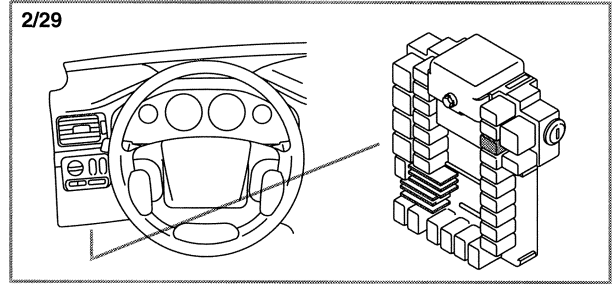
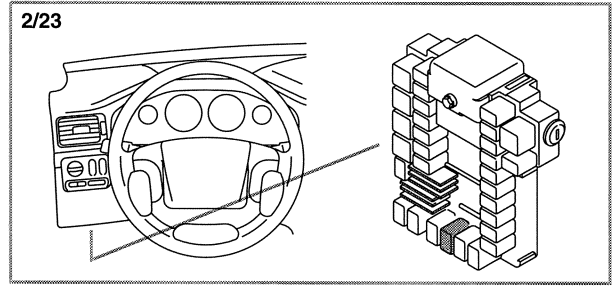
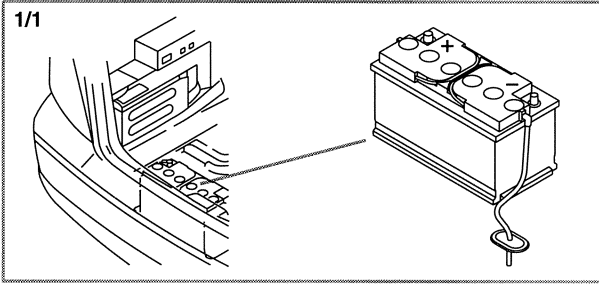
No.	Passenger compartment harness		Engine compartment harness	
1	Yaw angle speed sensor 2 7/148:1	W	ABS control module 4/16:14	W-VO
2	Yaw angle speed sensor 2 7/148:2	BN	ABS control module 4/16:30	BN-GR
3	Yaw angle speed sensor 2 7/148:3	GR	ABS control module 4/16:45	GR-R
4	Canister valve 8/44:2	GN	Engine Control Module (ECM) 4/46B:40	GN
5	Gear Shift Module (GSM), automatic transmission 3/156A:6	SB	Transmission Control Module (TCM) 4/28:54 Brake light contact 3/10	BL-SB Y-GR
6	Tank pressure sensor 7/84:3	W	Engine Control Module (ECM) 4/46B:10	W-SB
7	CEM 4/56A:19	Y	Horn relay 2/17:2	Y
8	CEM 4/56A:3	BN-W	Starter motor relay 2/35:2	BN-W
9	Tank pressure sensor 7/84:2	GR	Engine Control Module (ECM) 4/46B:31	GR-SB
10	CEM 4/56A:17 V70	W	Relay, rear window washer motor 2/93:4	W
11	CEM 4/56A:16	BL	Relay, windshield washer motor 2/92:2	BL-R
12	CEM 4/56A:14	Y	Relay, windshield wiper, low/high speed 2/90:2	Y
13	CEM 4/56A:13	GR	Relay, intermittent windshield wiper 2/91:2	GR





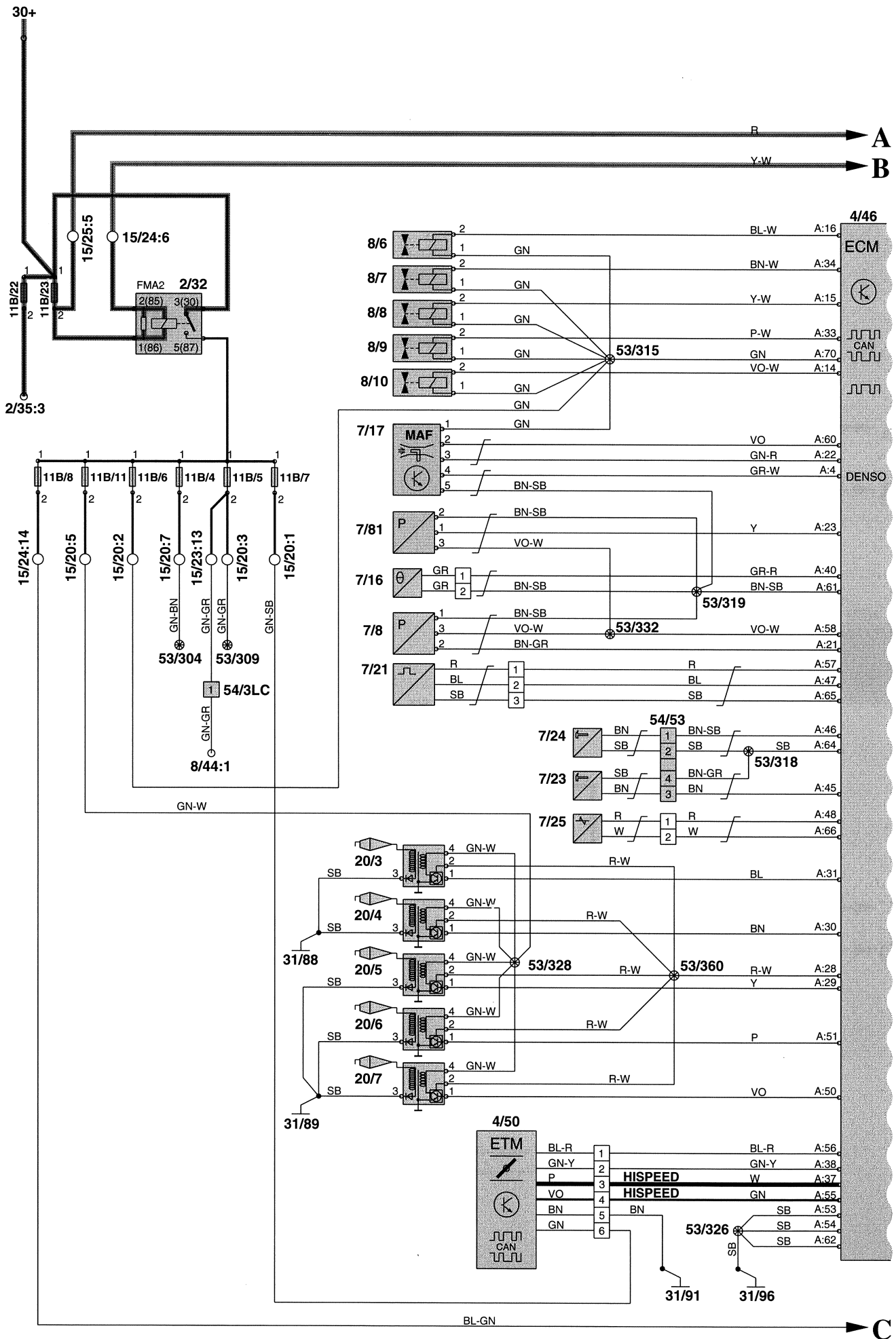
Engine harness ME7/Denso



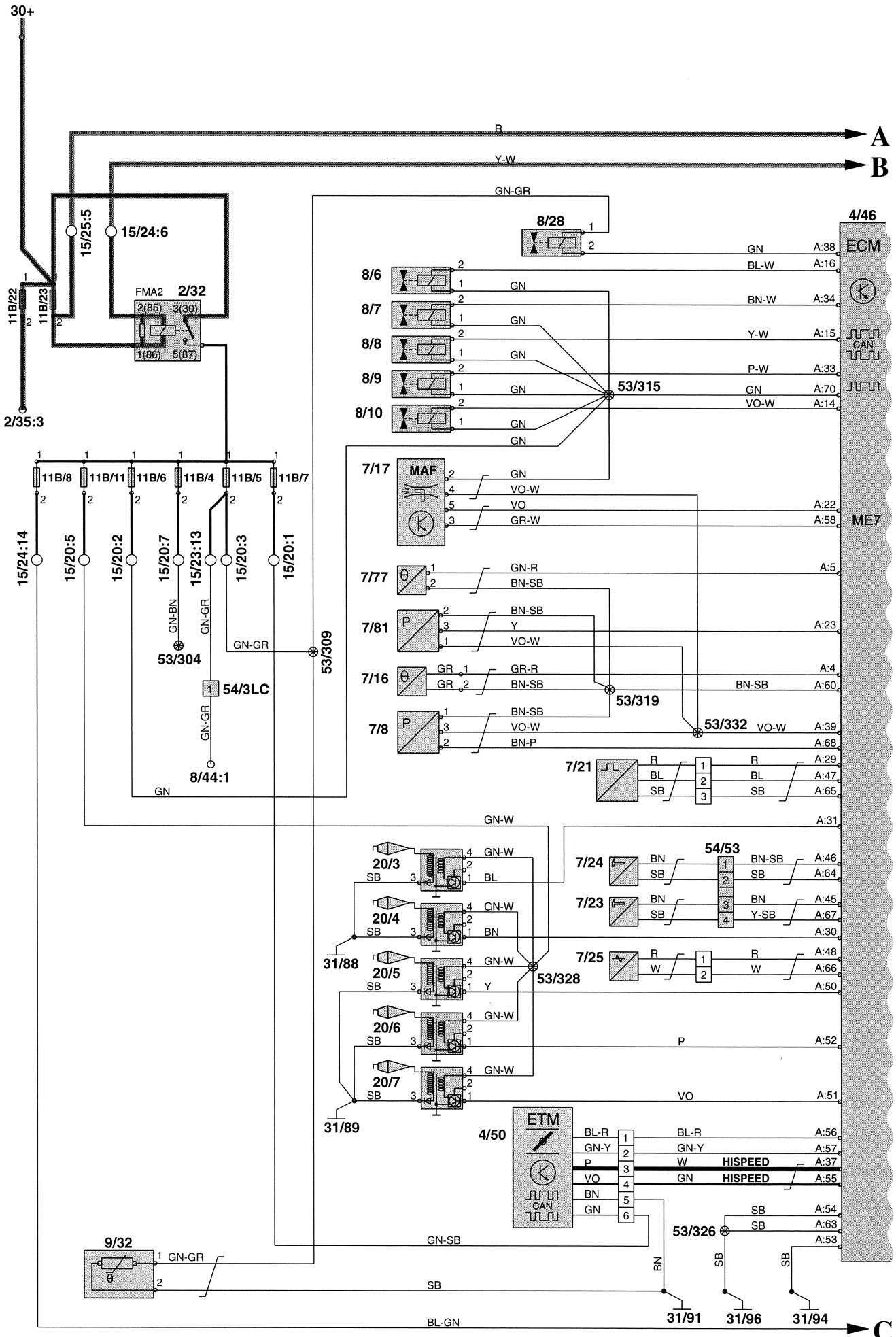


# Engine control module

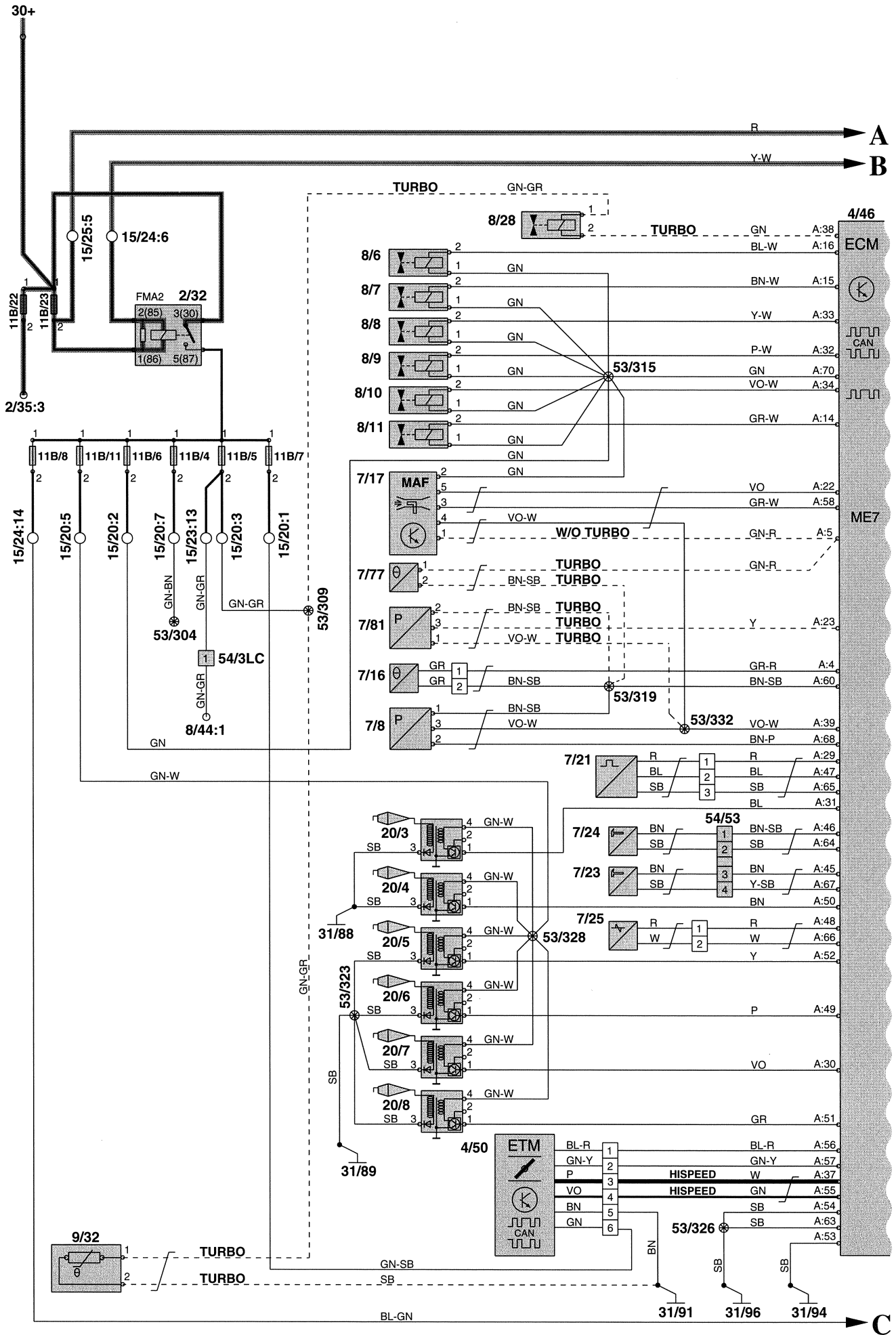
## Denso



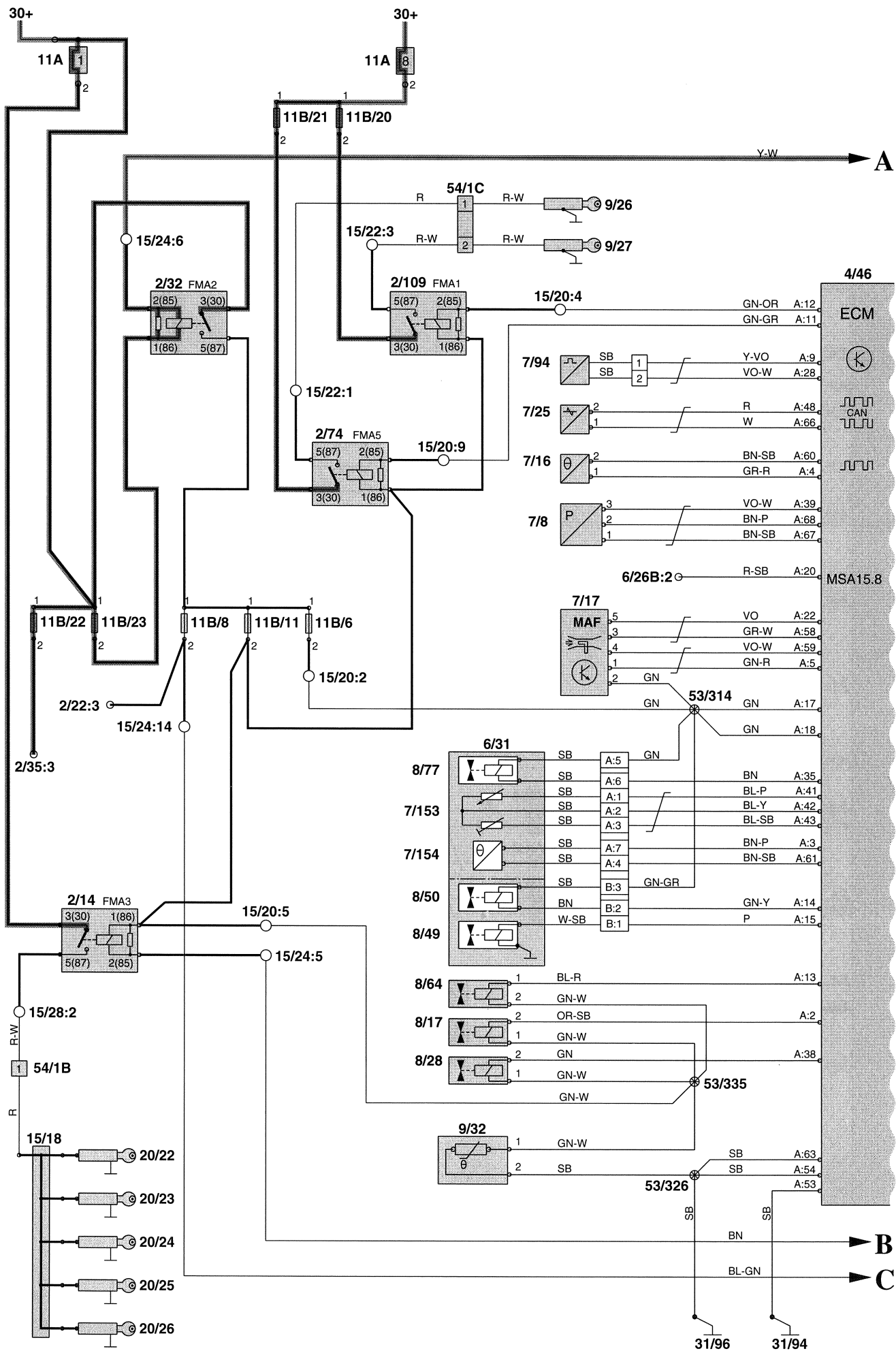
# Engine control module ME7, 5 cyl



# Engine control module ME7, 6 cyl

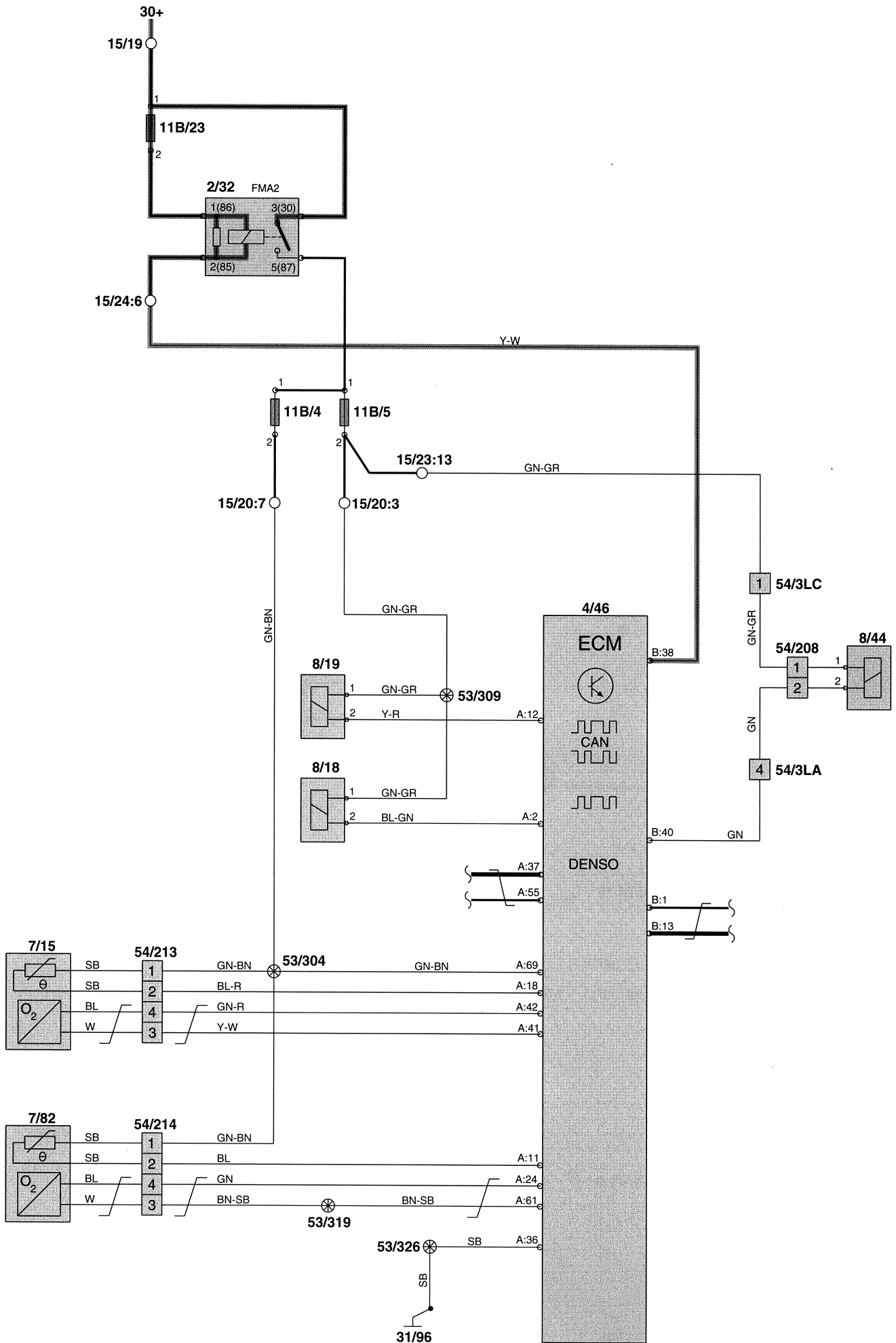


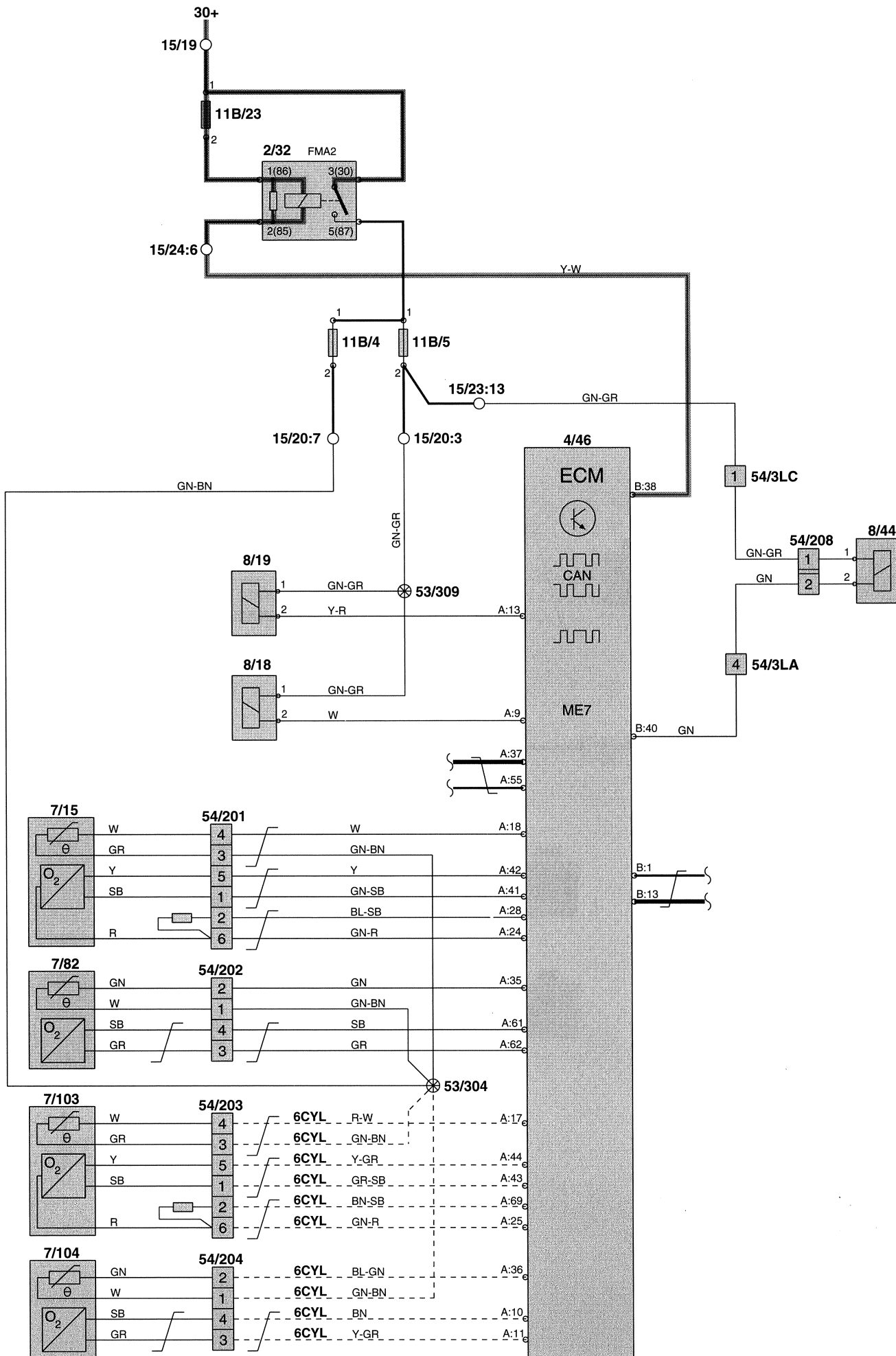
# Engine control module MSA 15.8



# Emission control

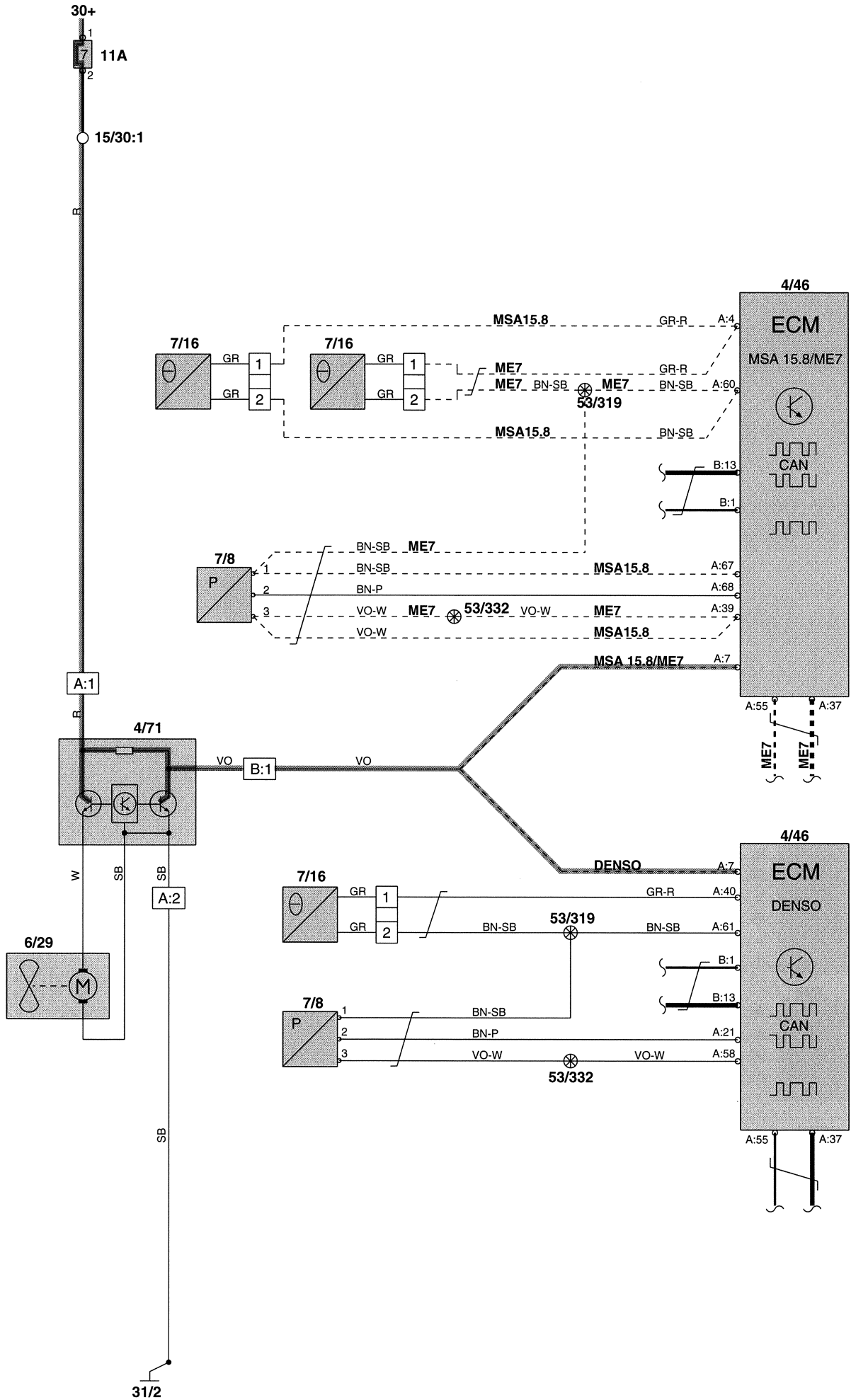
## Denso

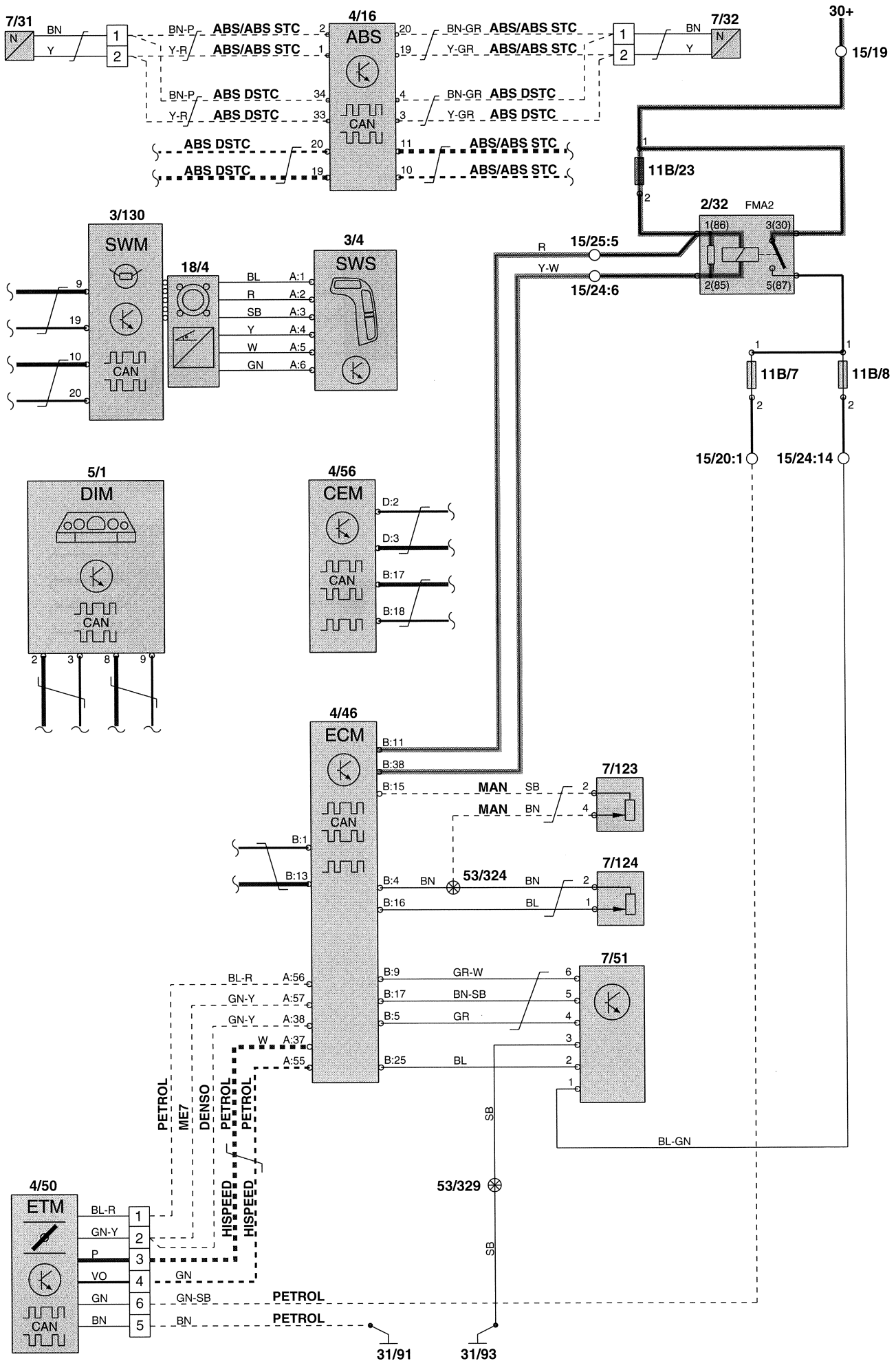




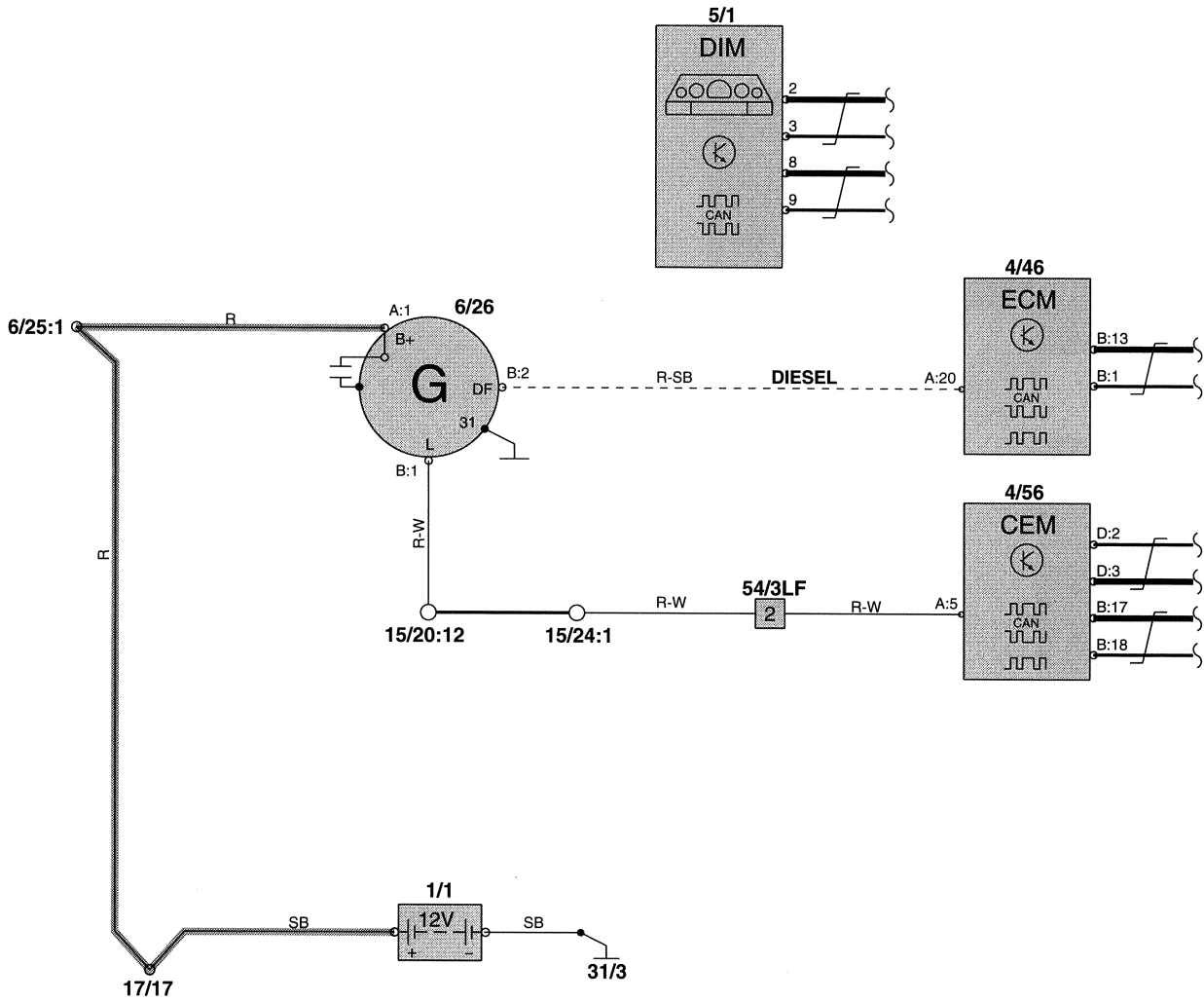


# Electric cooling fan

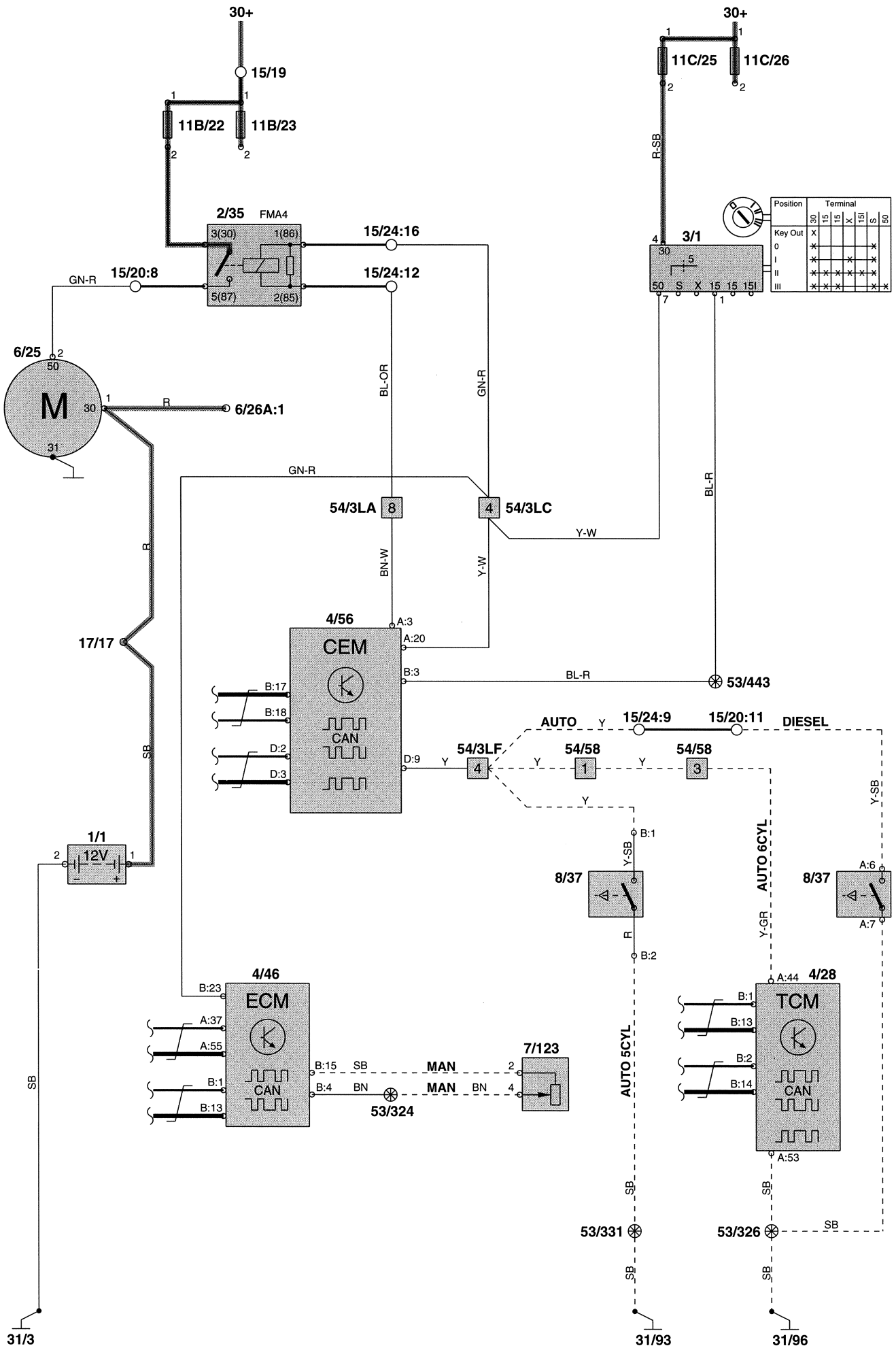




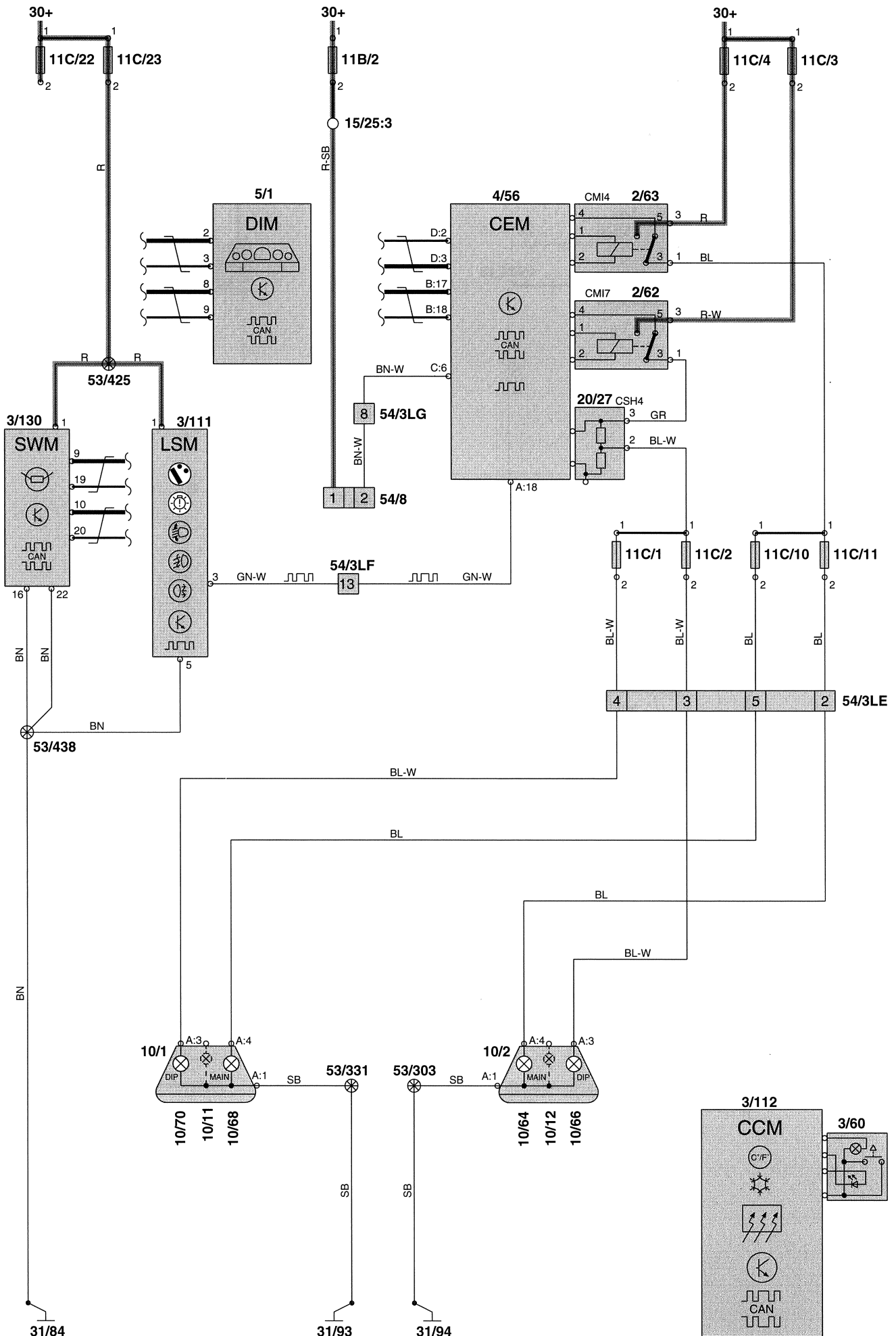
# Power supply



# Starter system

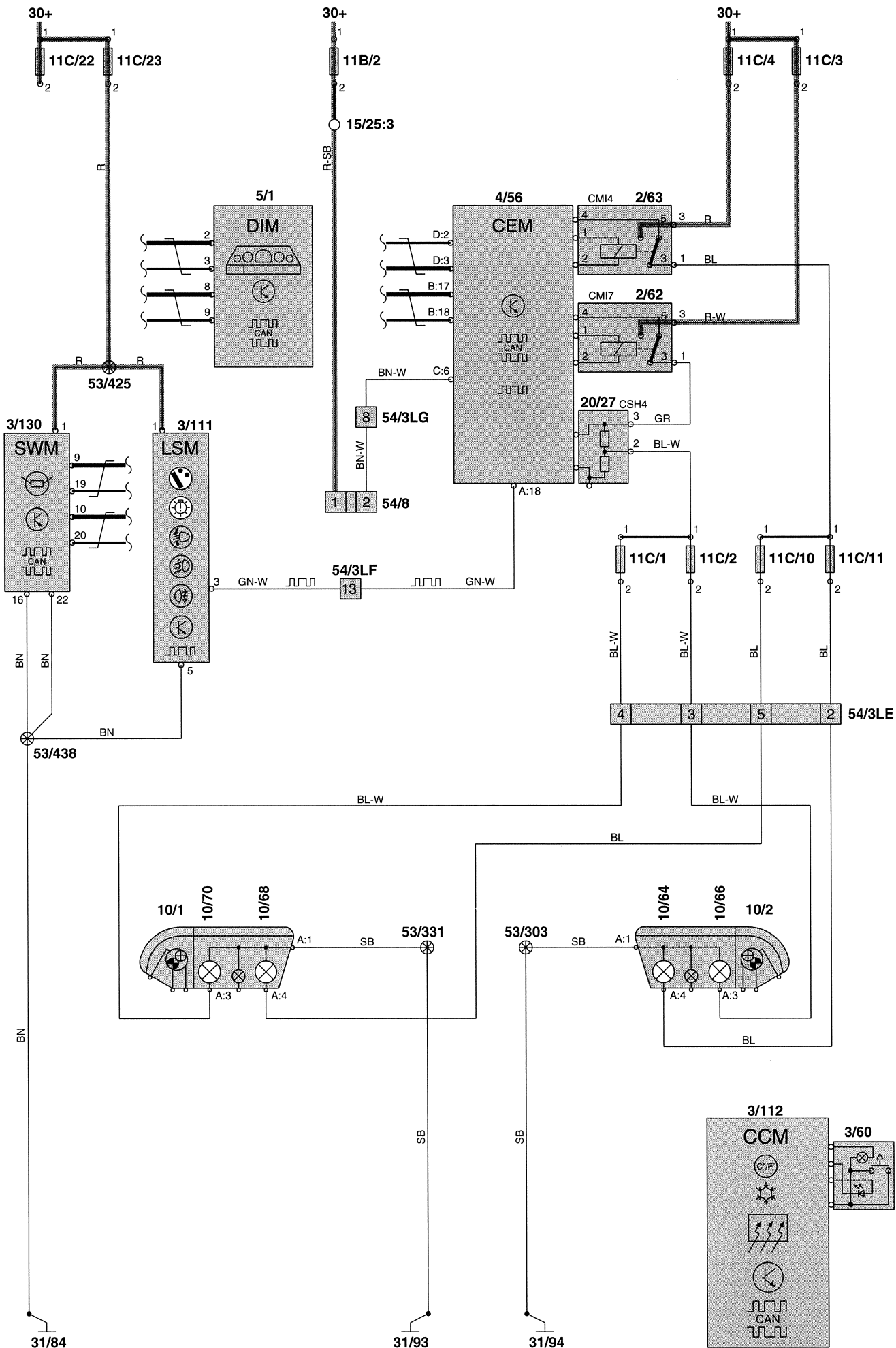


# High and low beam and auxiliary light cables S80

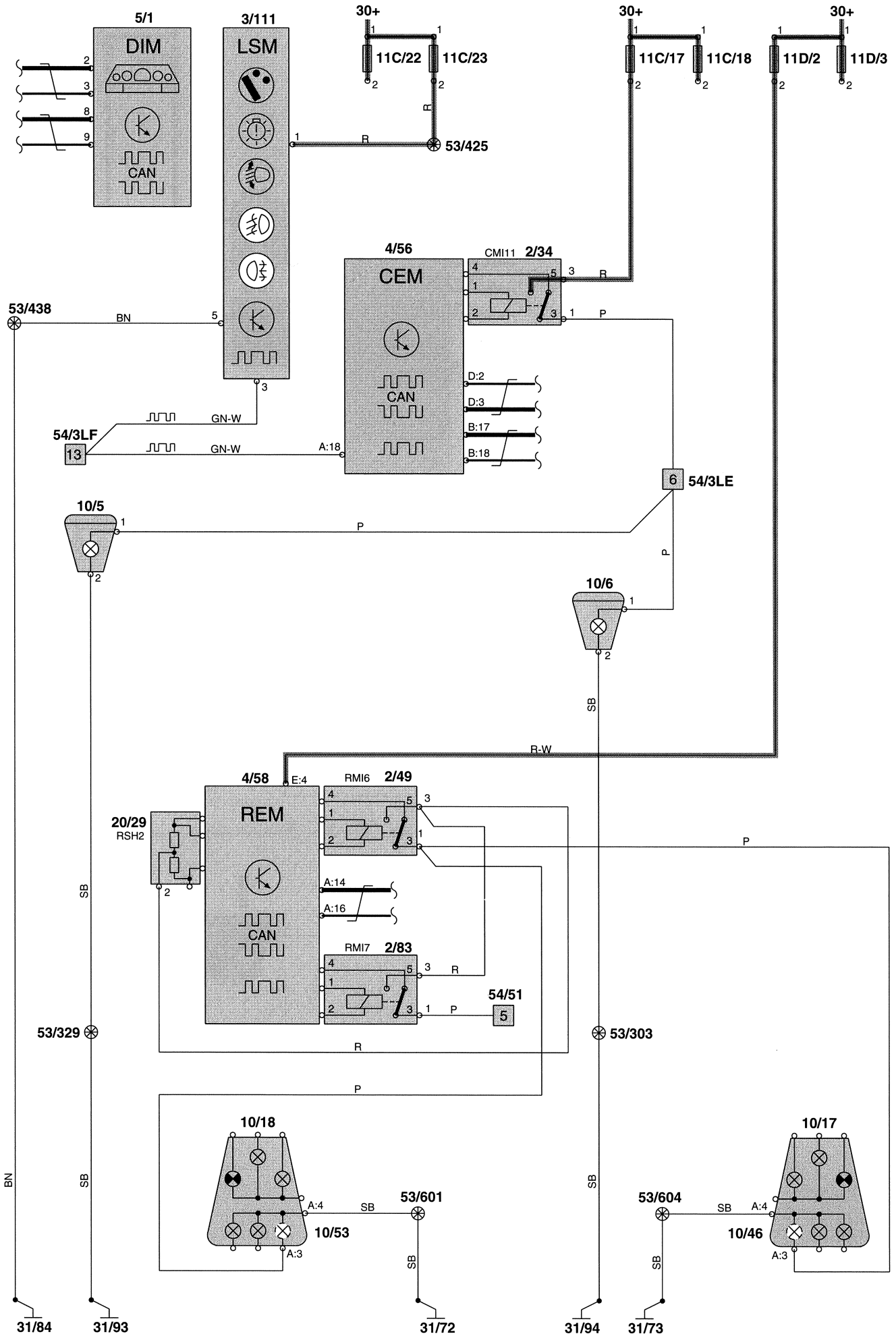


# High and low beam and auxiliary light cables

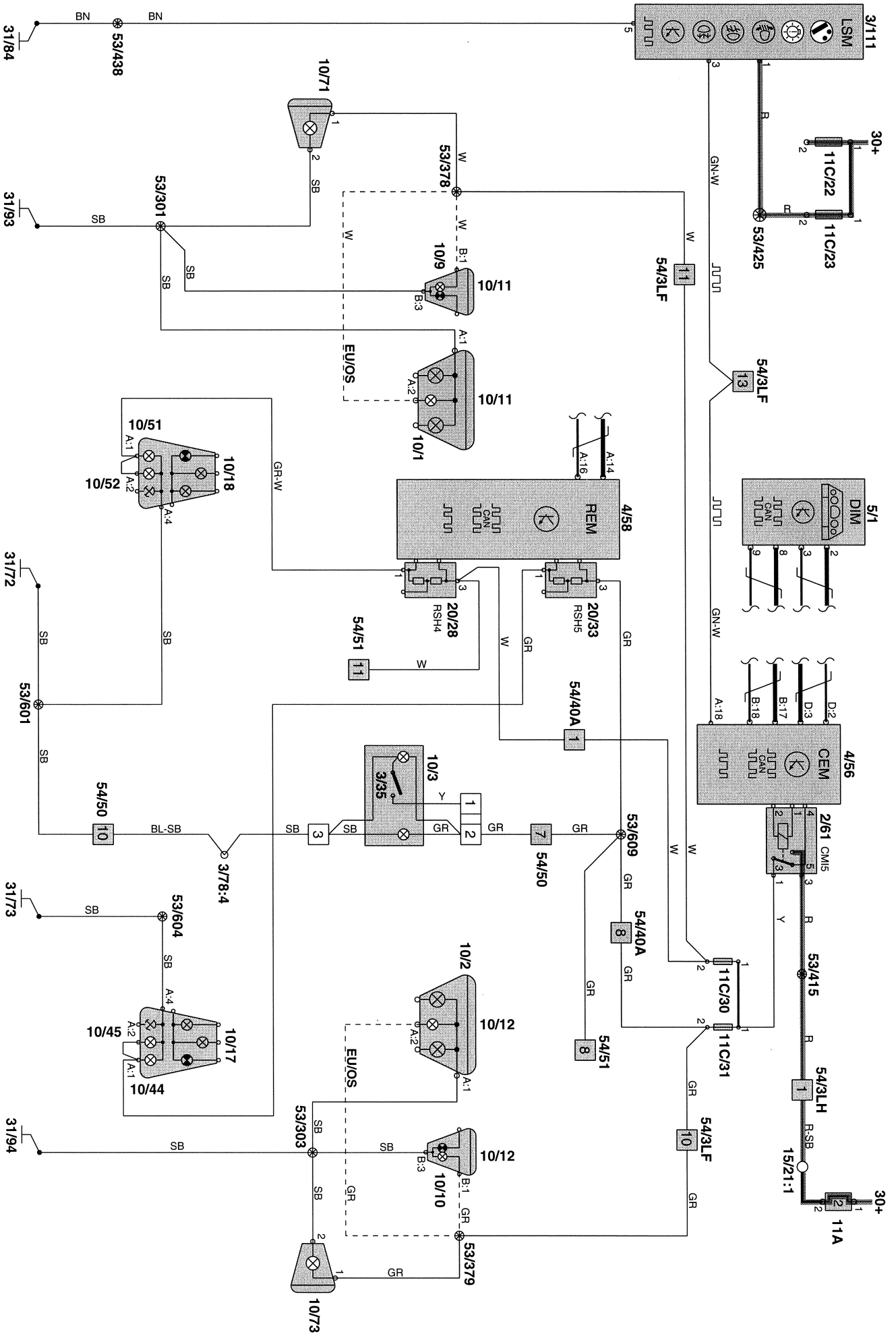
## V70



# Fog light S80

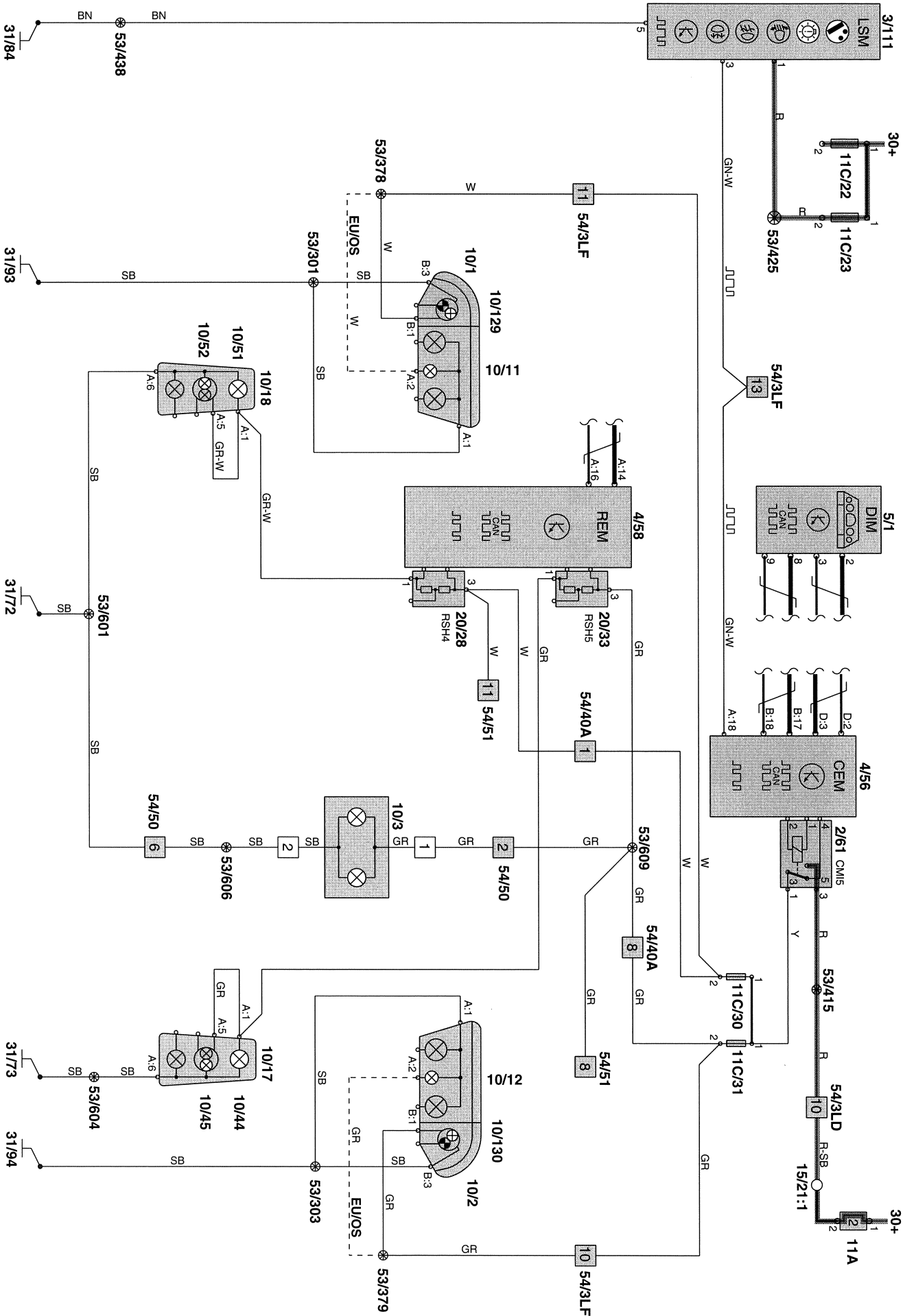


# Parking light, tail lights and license plate lighting S80

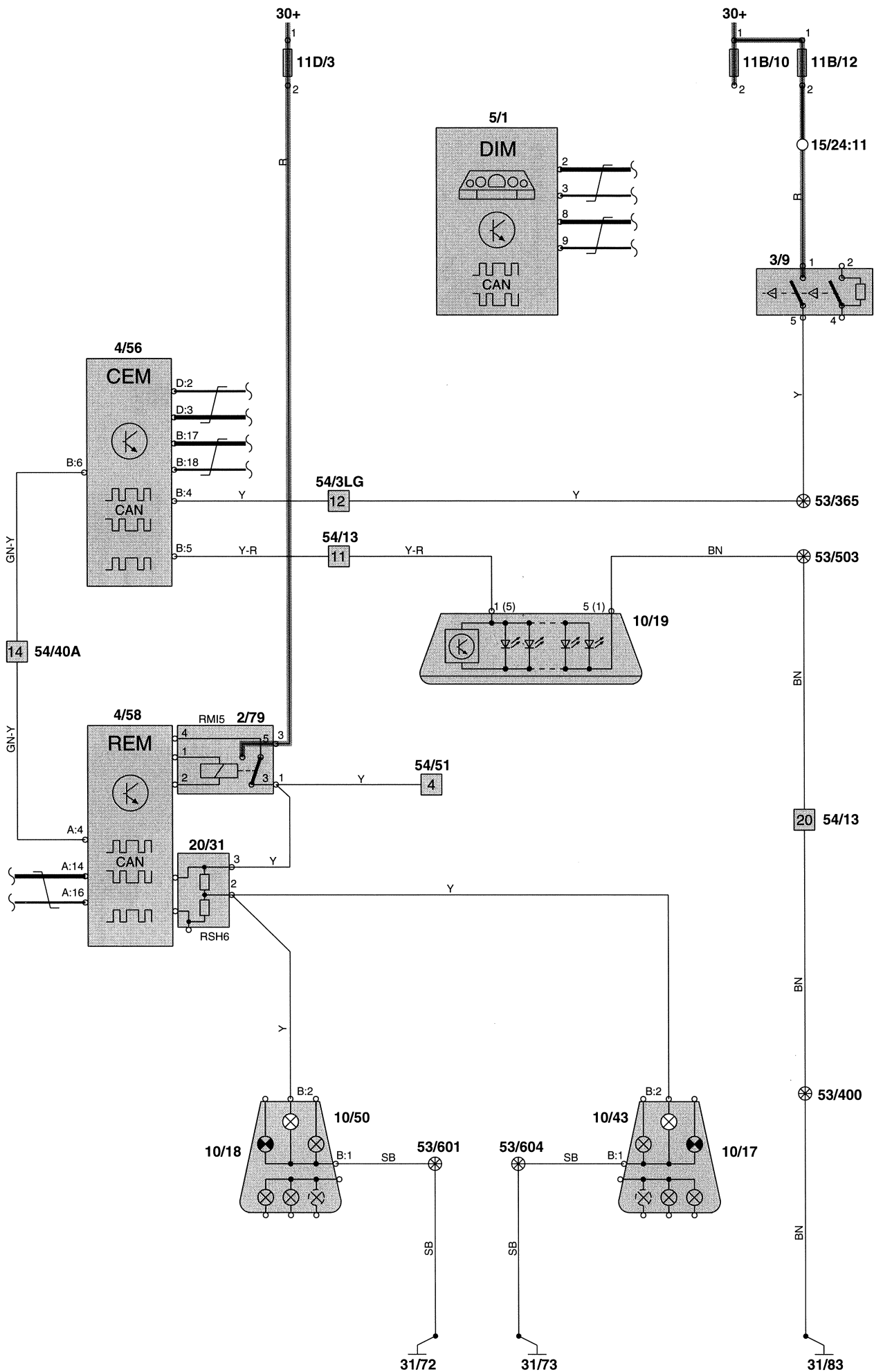




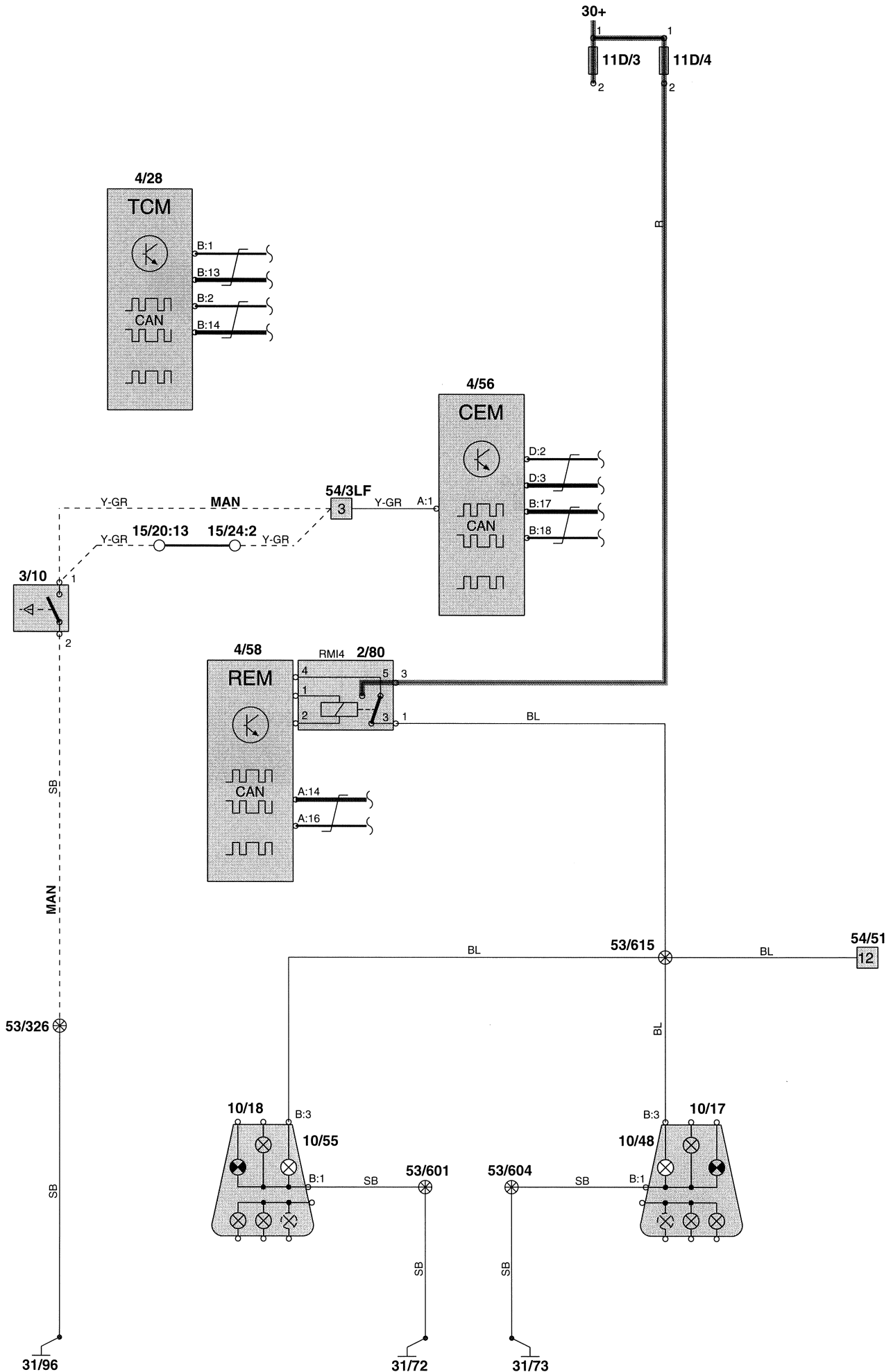
# Parking light, tail lights and license plate lighting V70



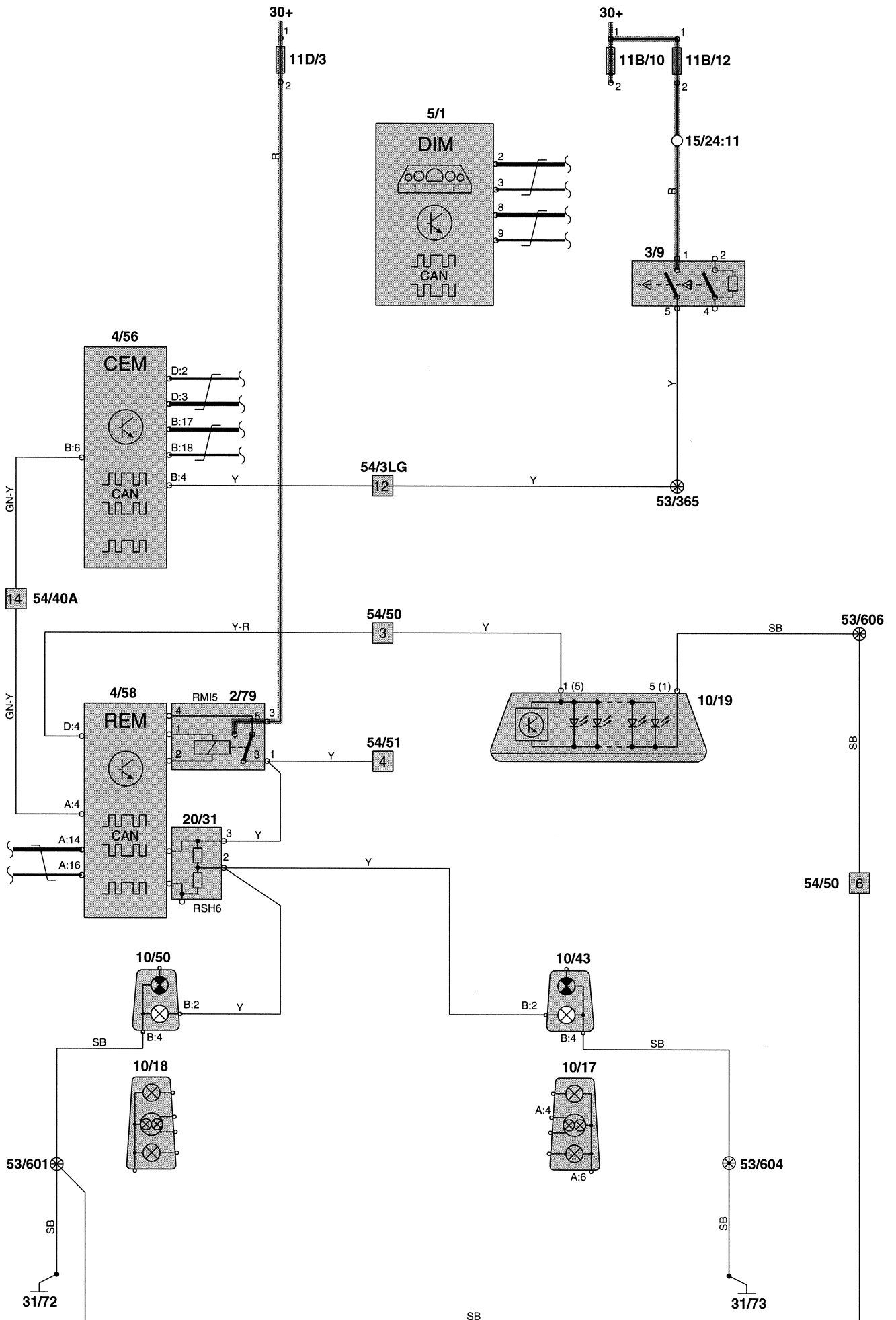
# Brake light S80



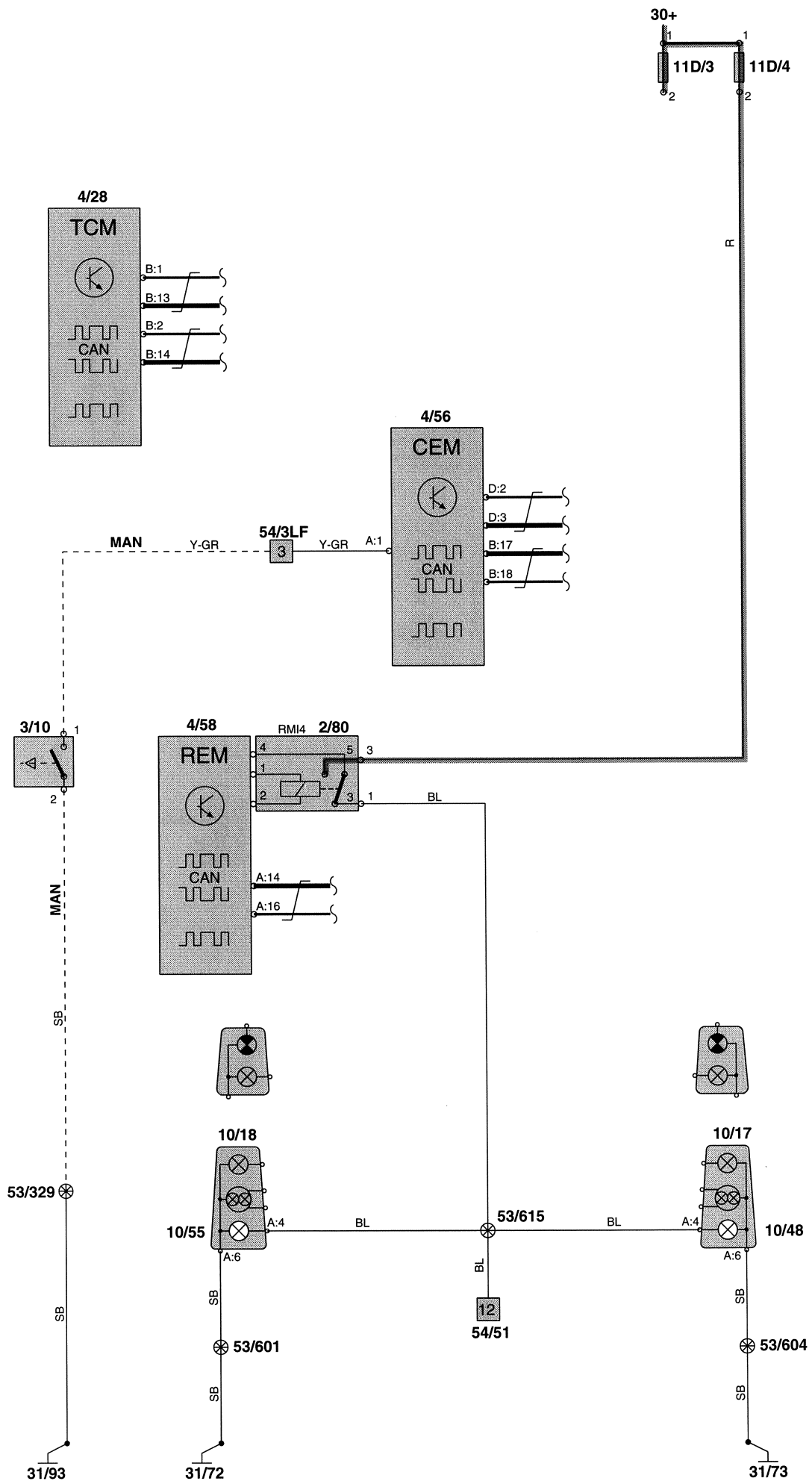
# Tail lights S80



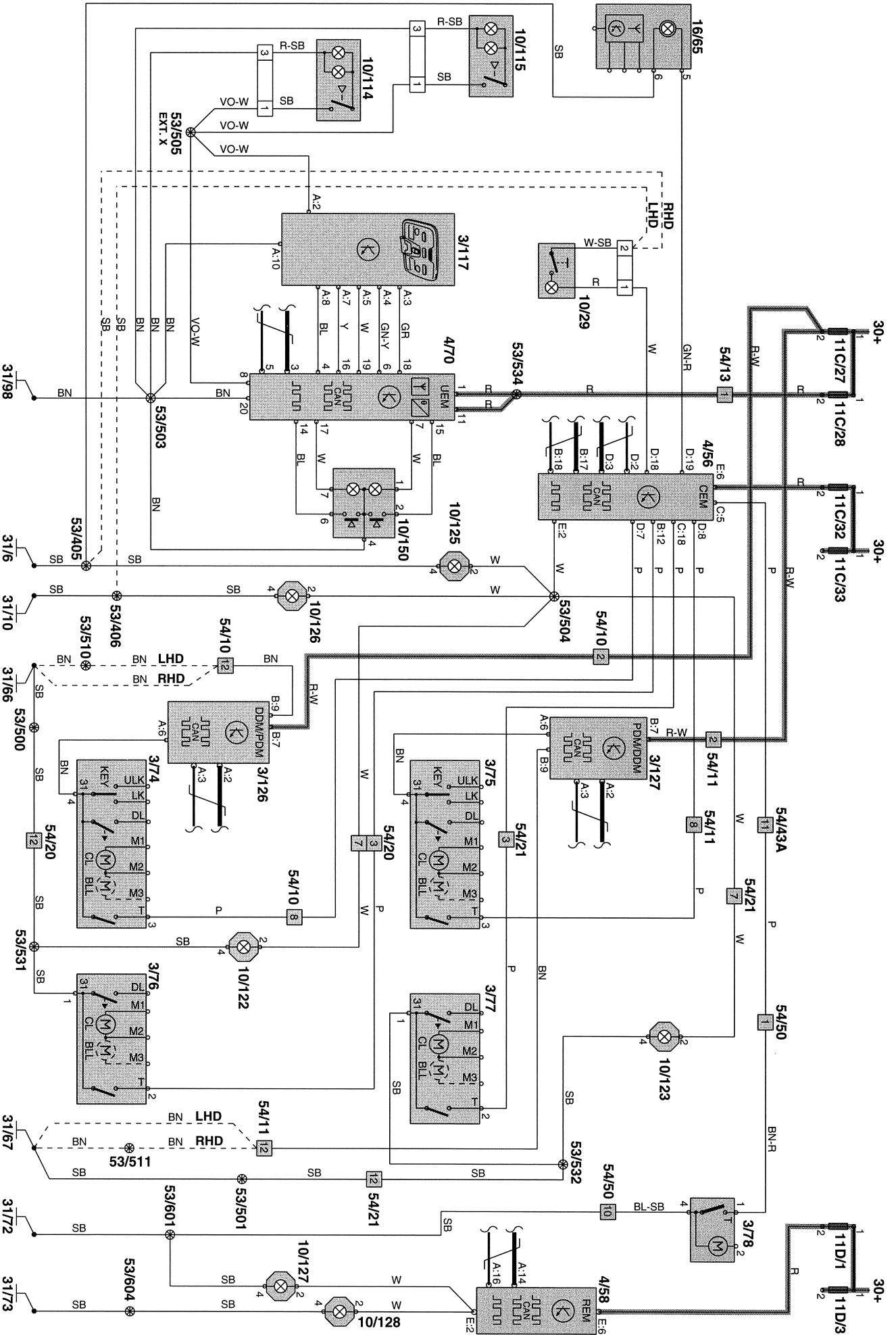
# Brake light V70

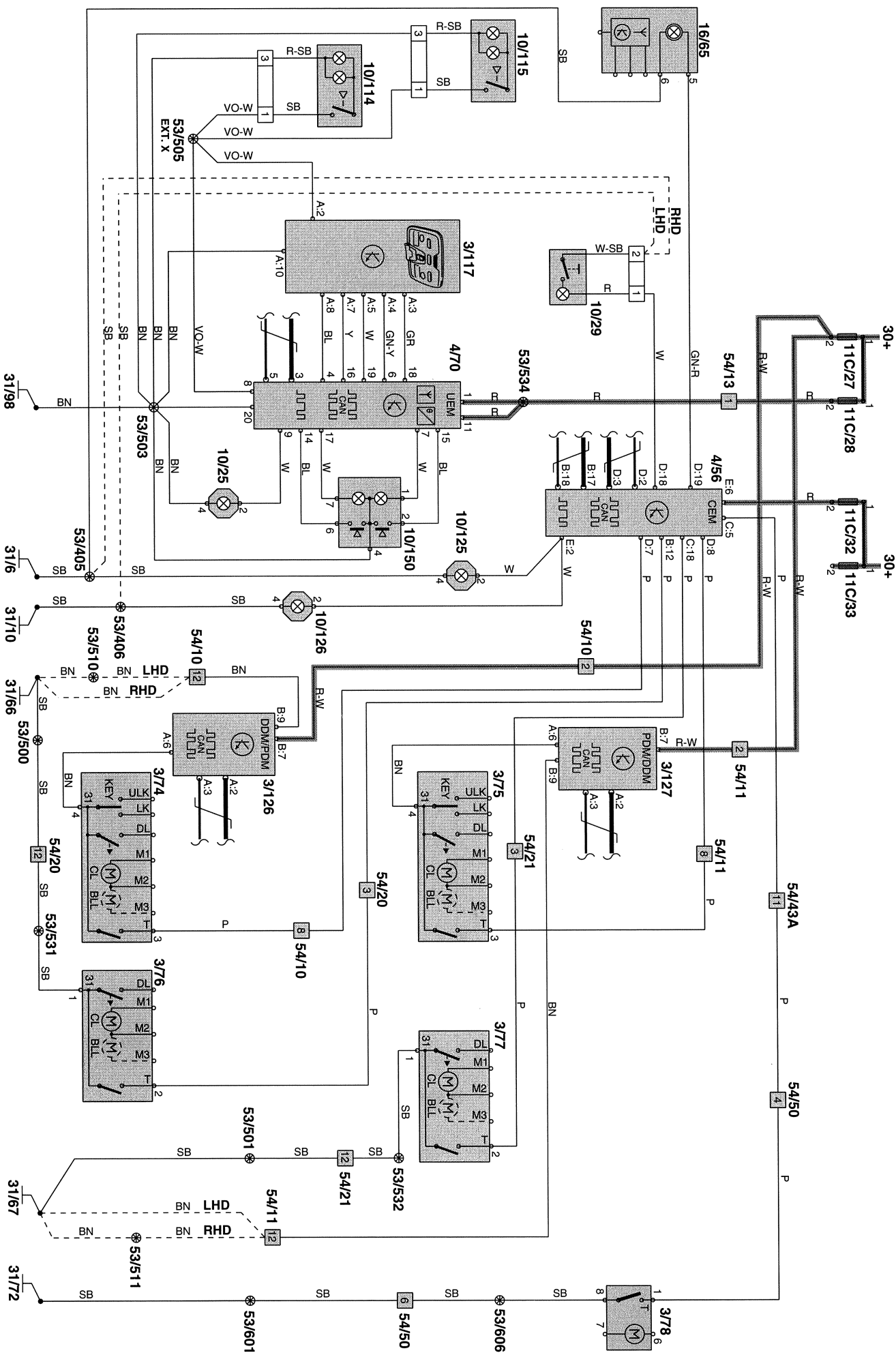


# Tail lights V70

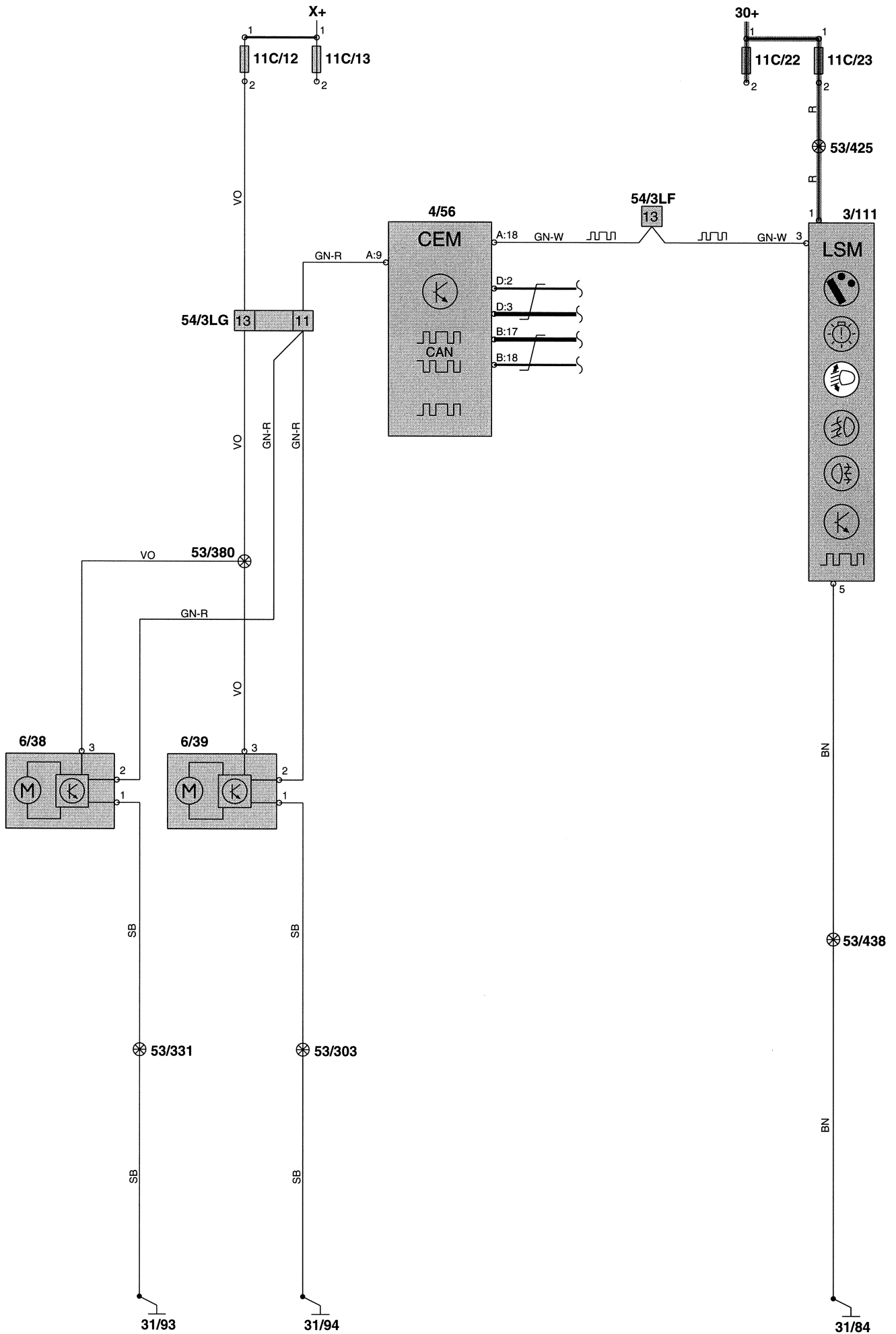


# Interior lighting S80



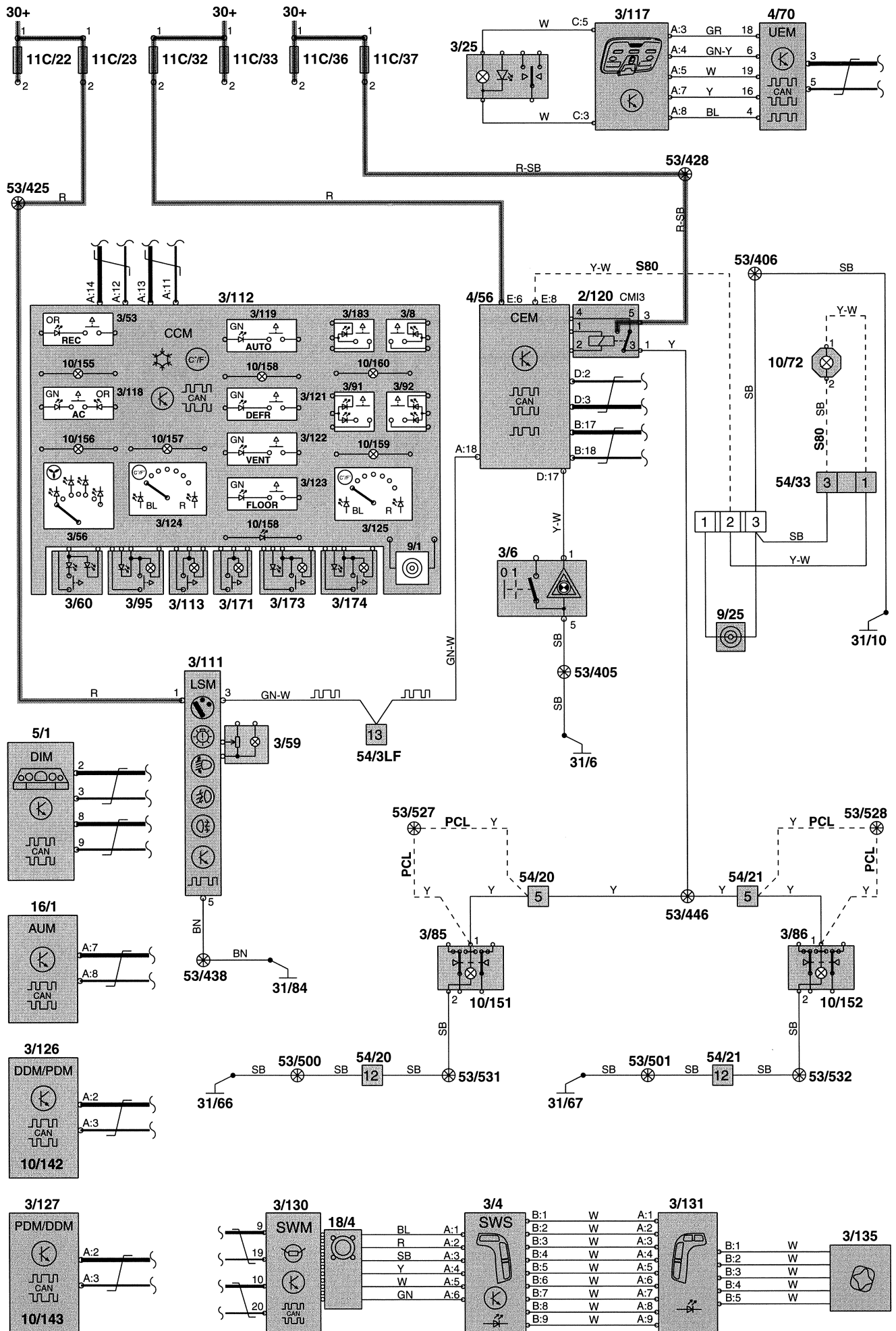


# Beam length control

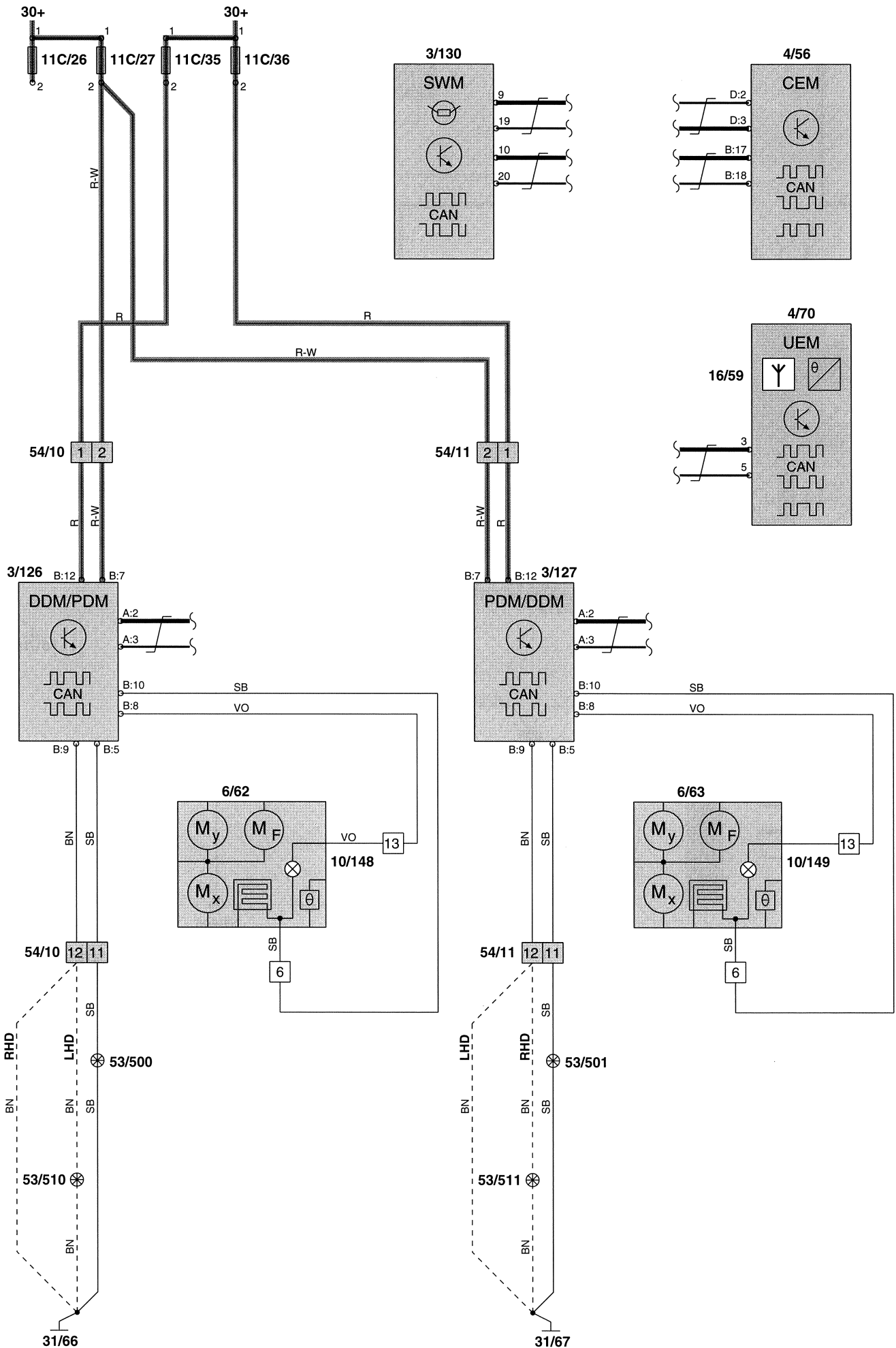




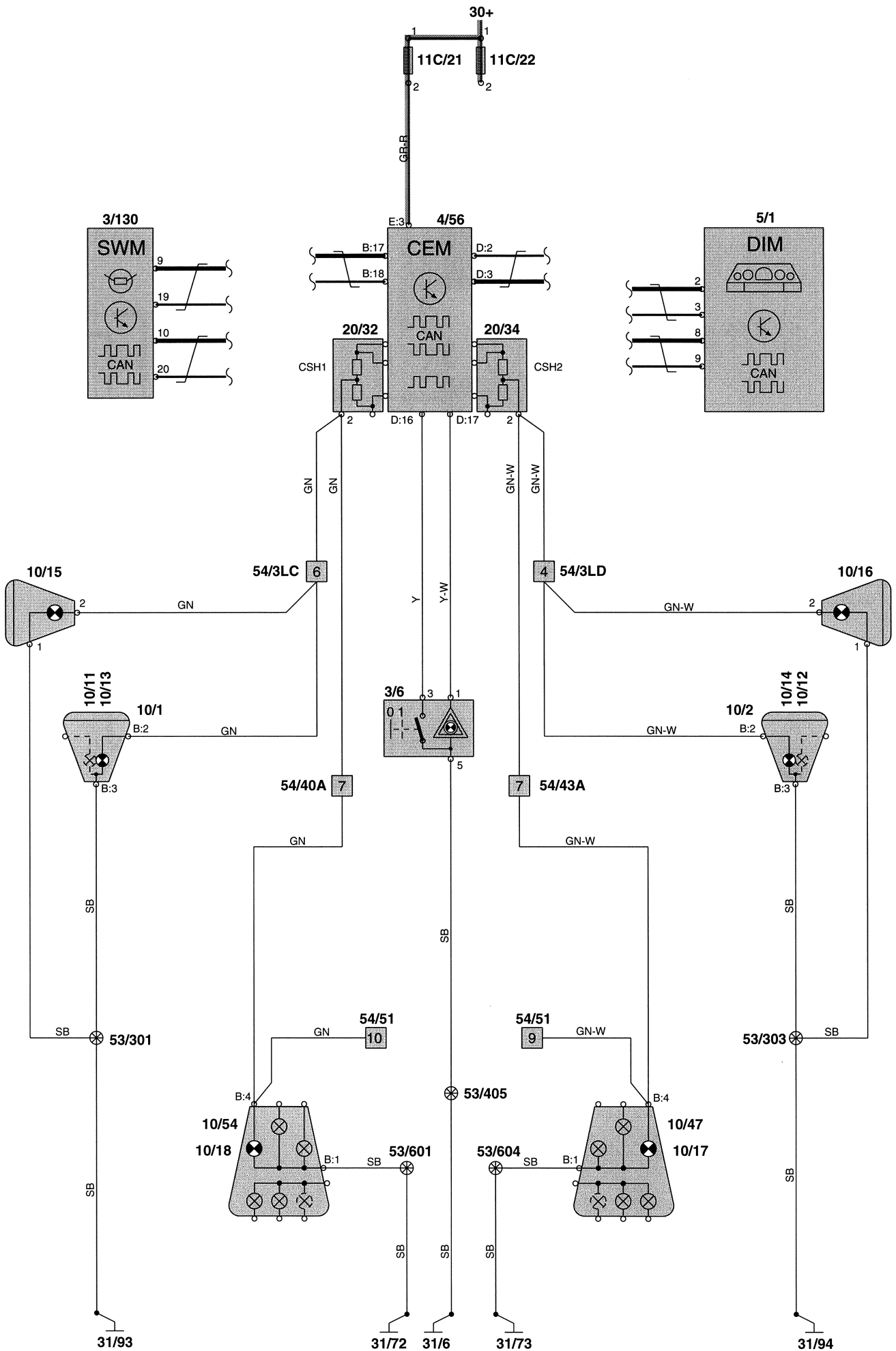
# Instrument and control lighting



# Safety lighting

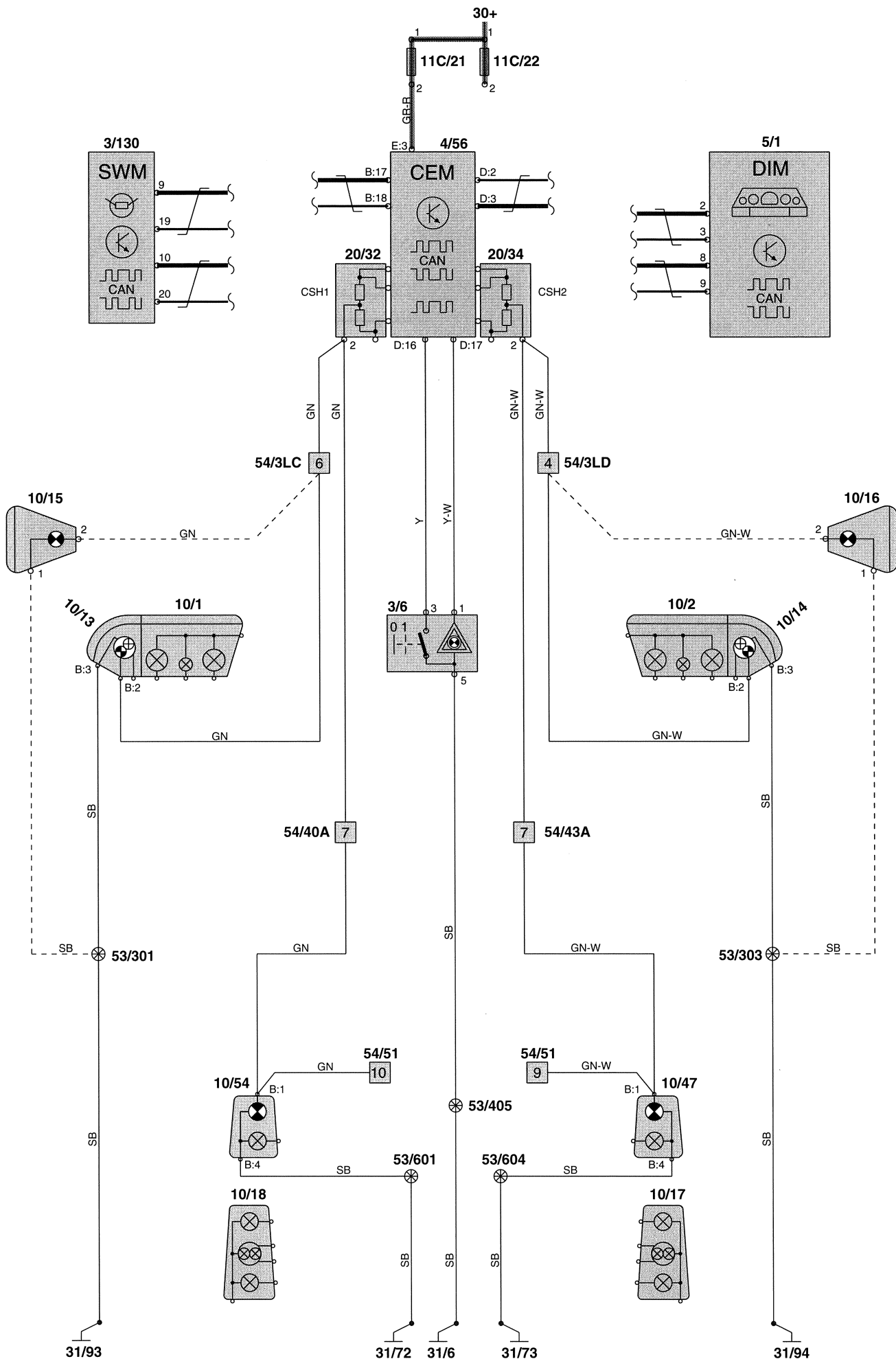


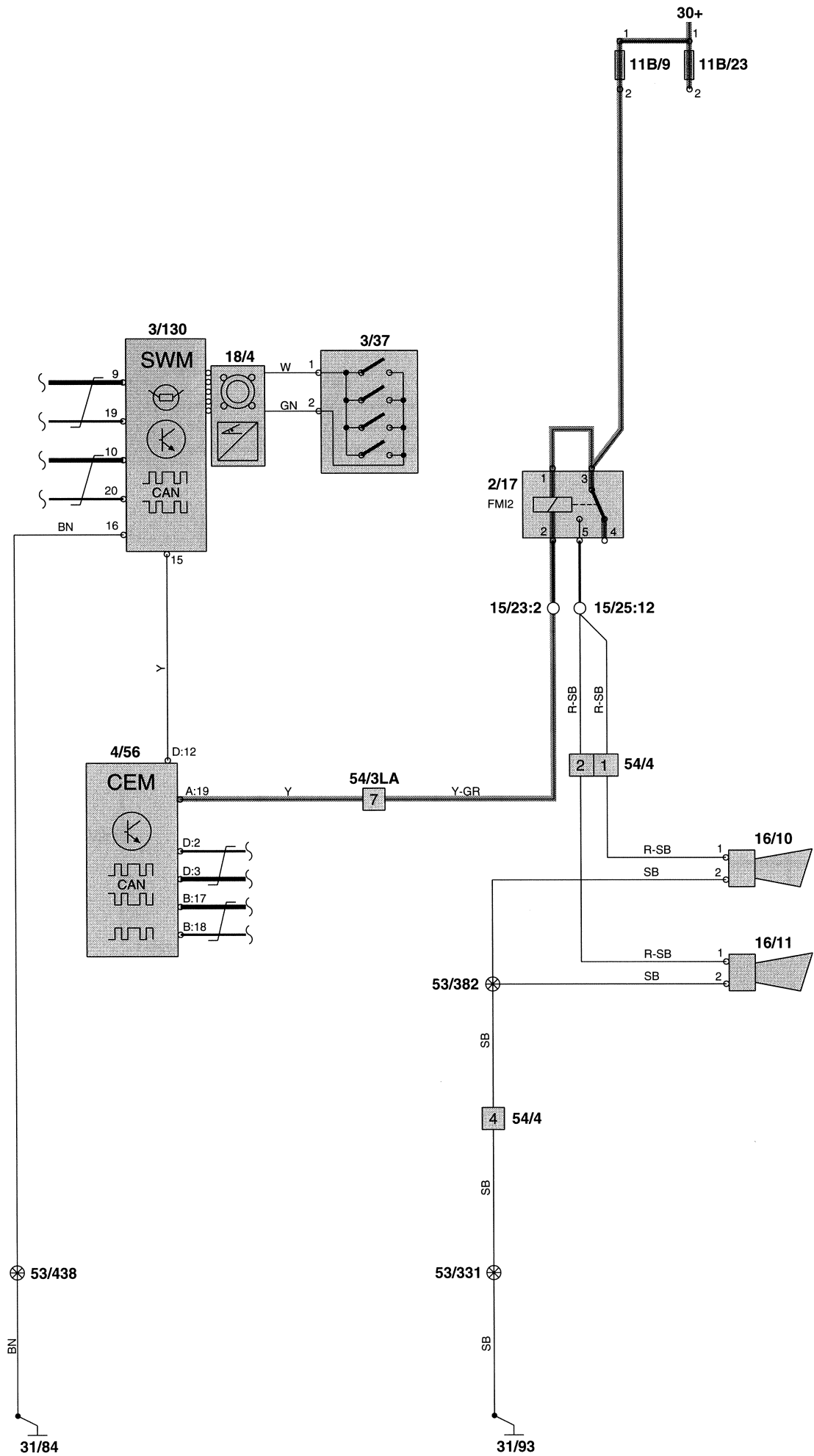
# Direction indicators and hazard warning flashers S80



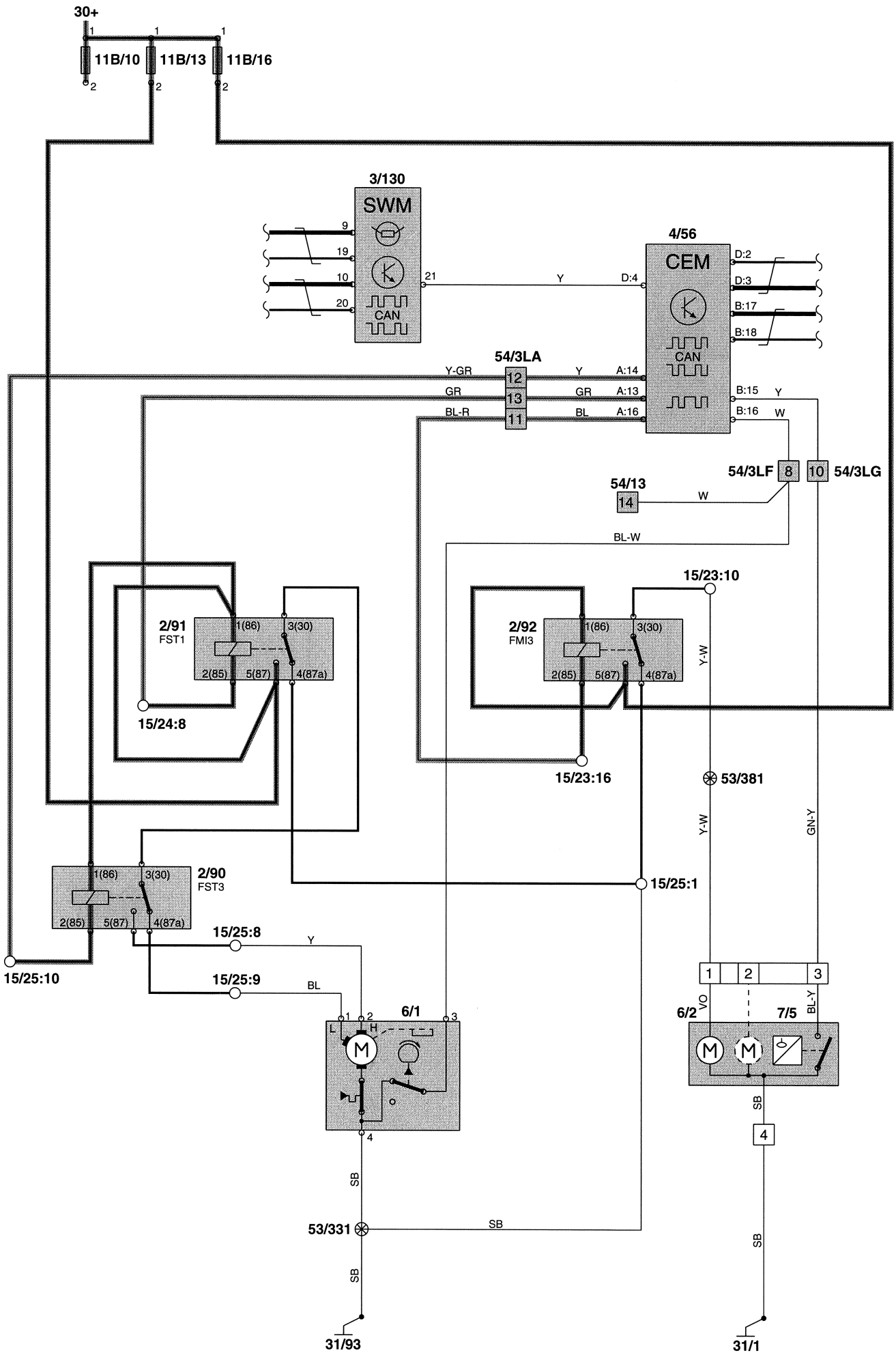
# Direction indicators and hazard warning flashers

## V70

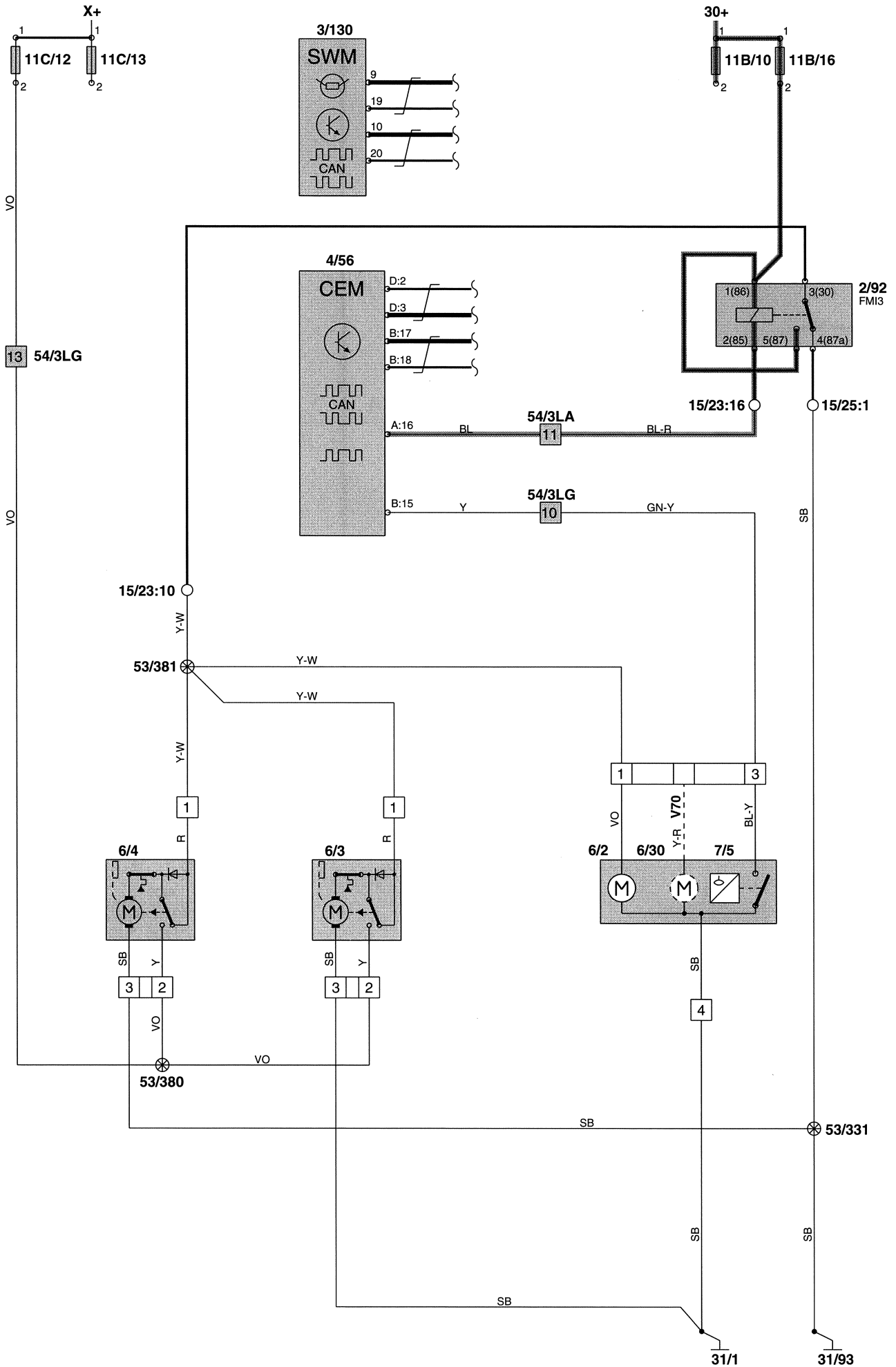




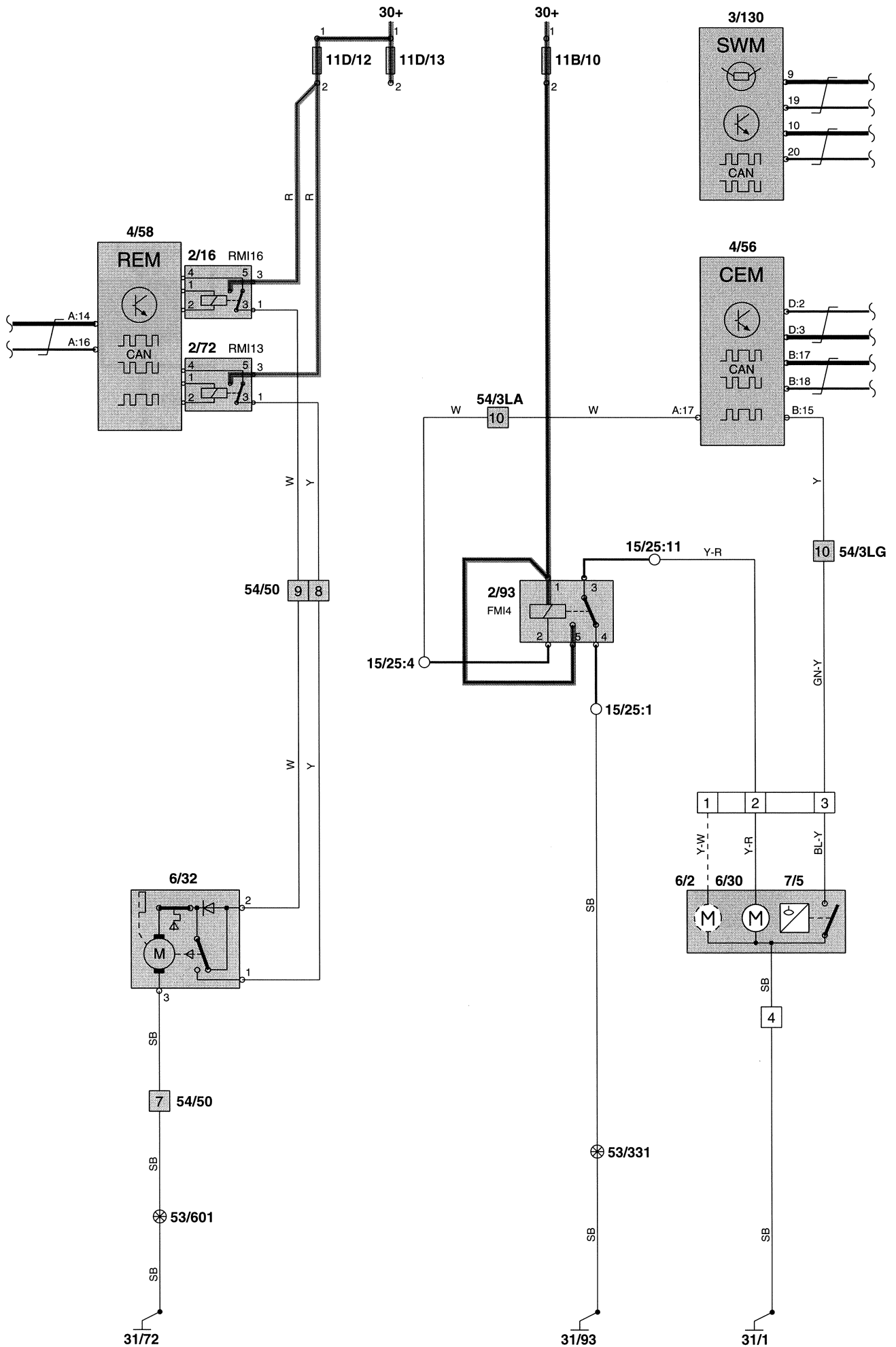
# Wiper/washer Windshield



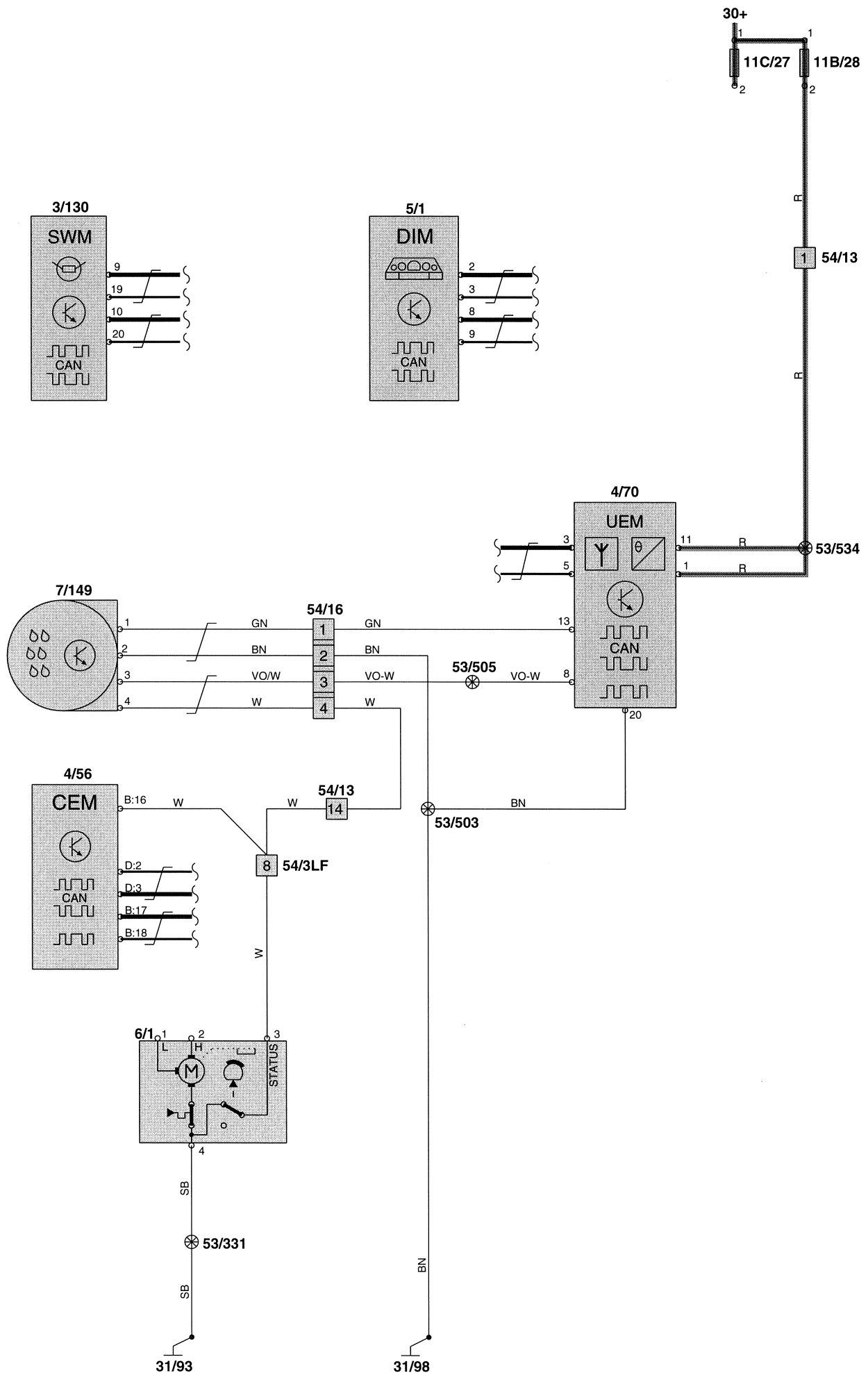
# Wiper/washer Headlights



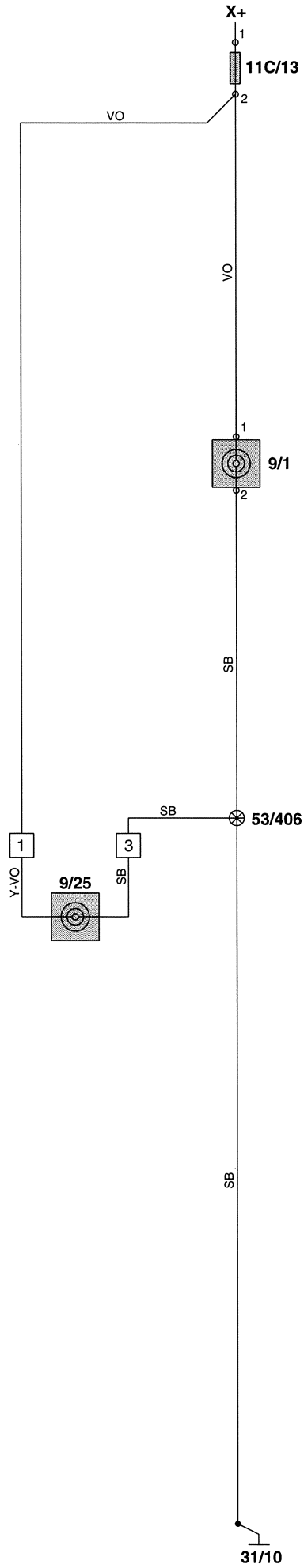
# Wiper/washer Rear window



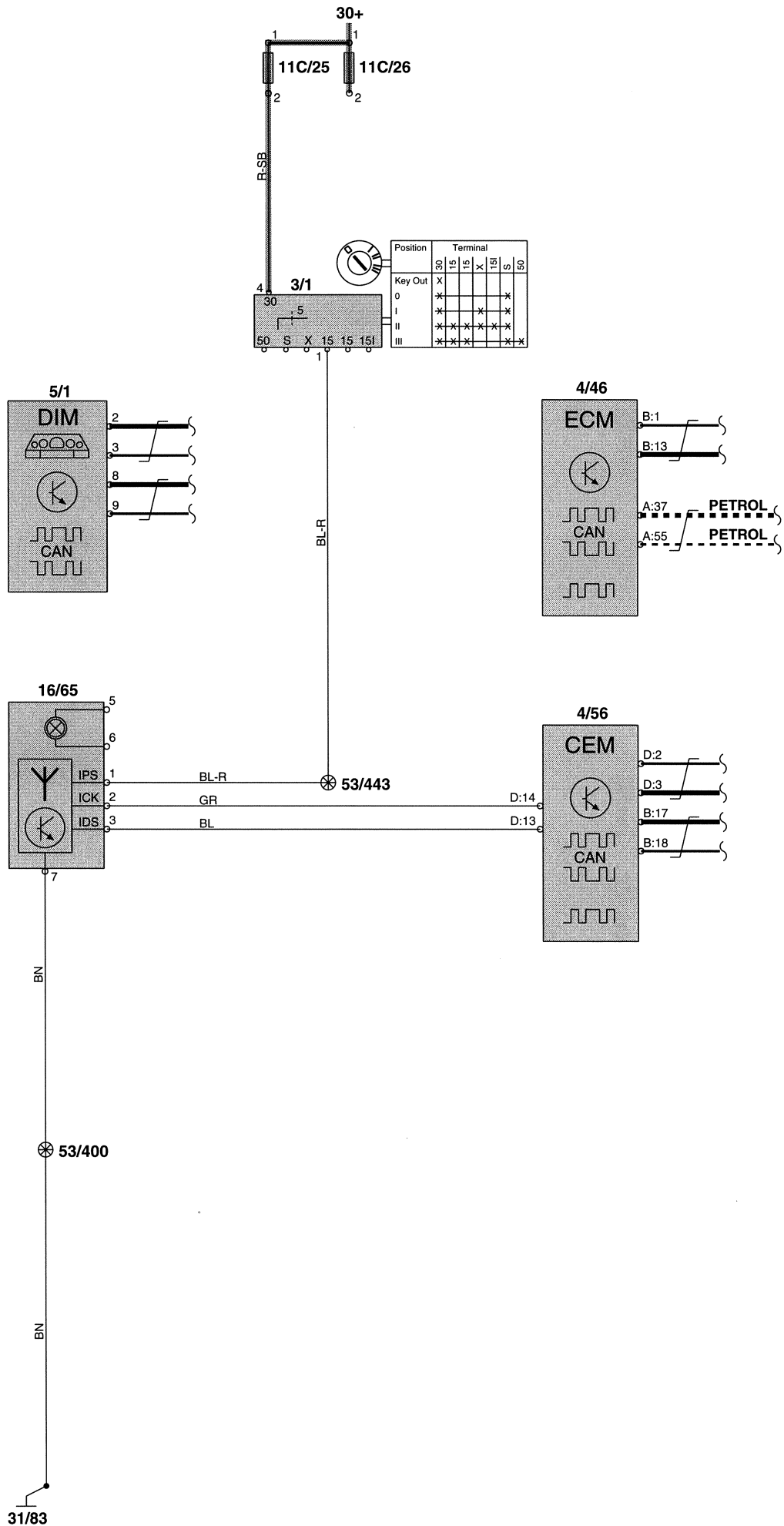




# Cigarette lighter

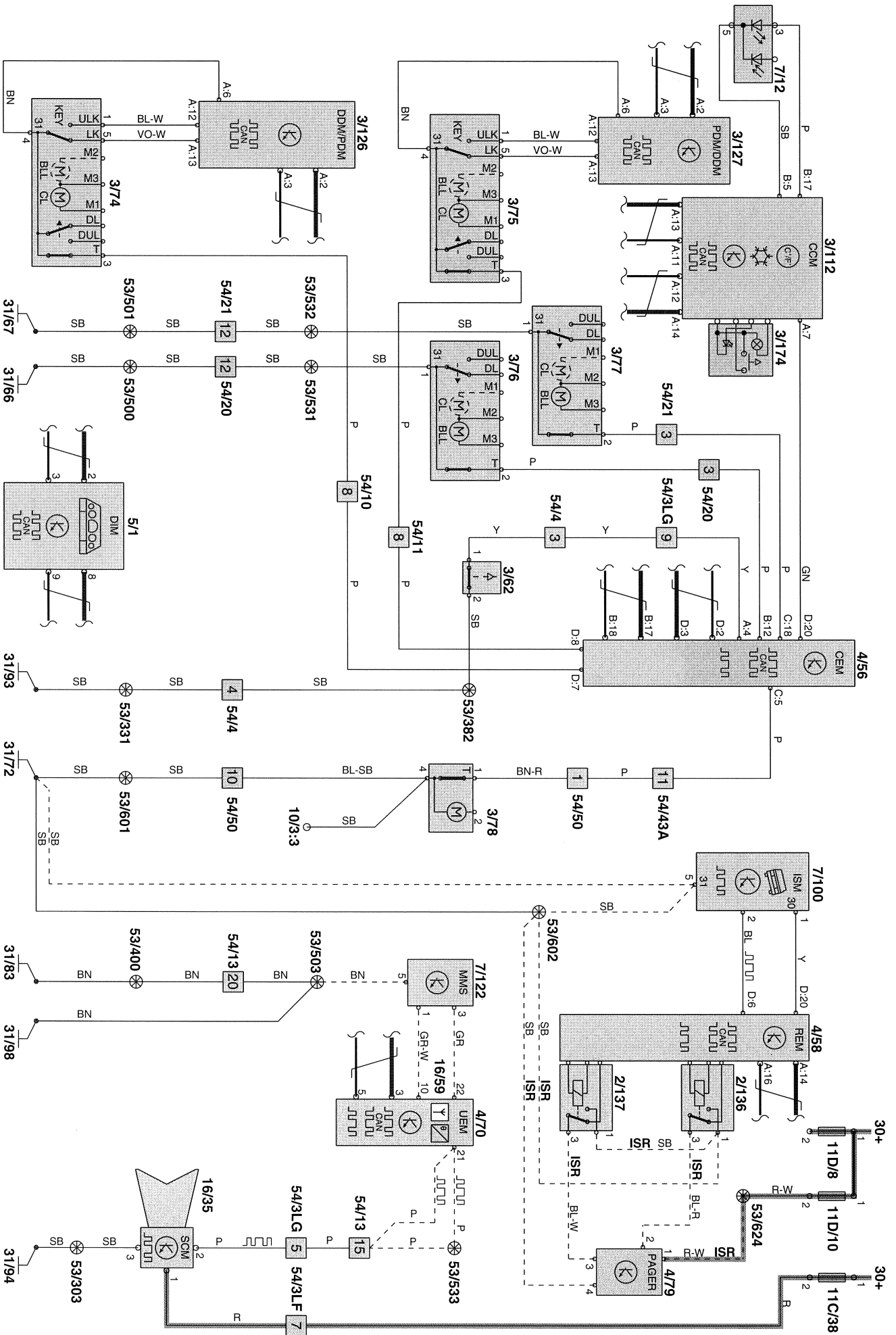


# Electronic starter lock (Immobilizer)

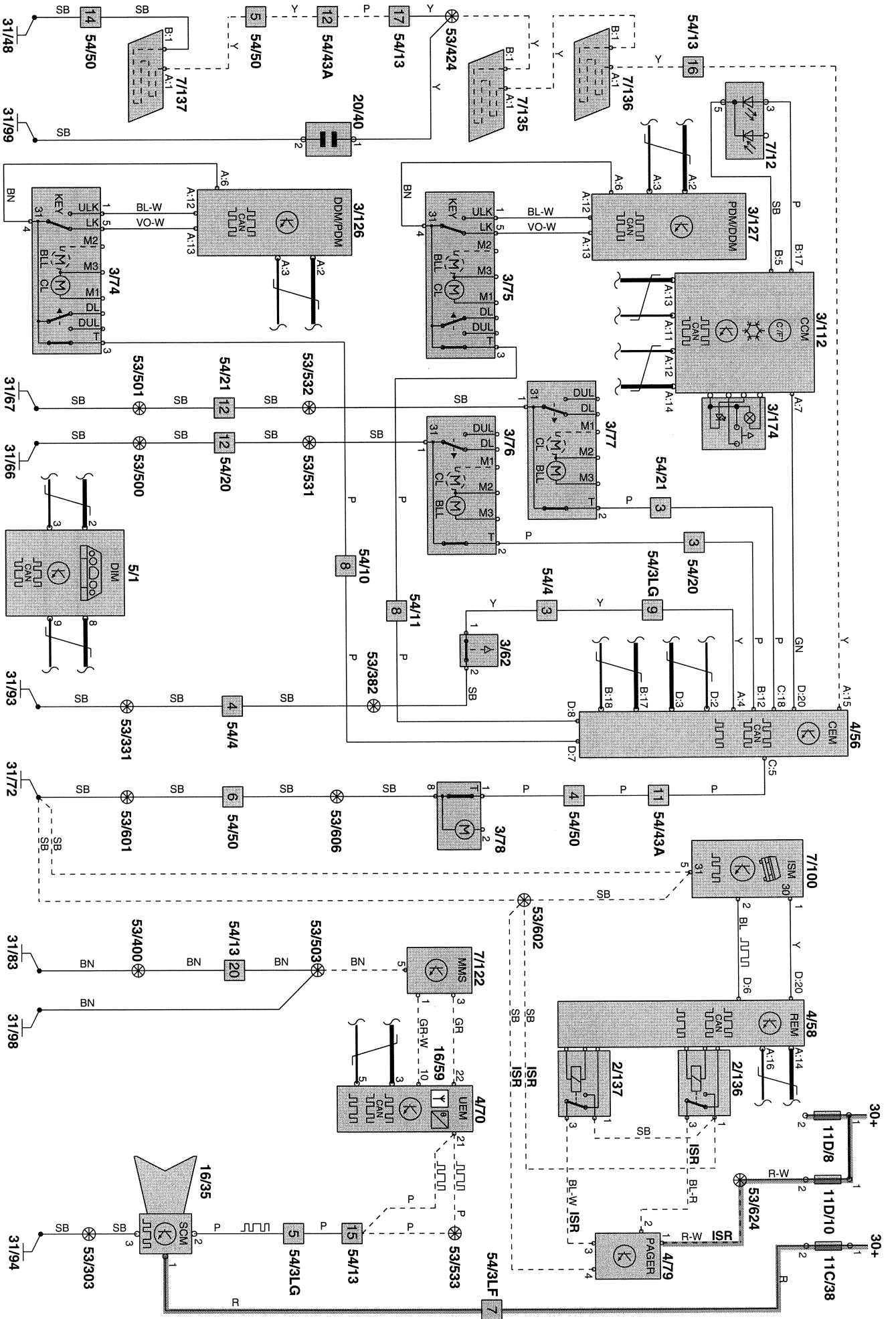


# Anti-theft alarm

## S80



# Anti-theft alarm V70



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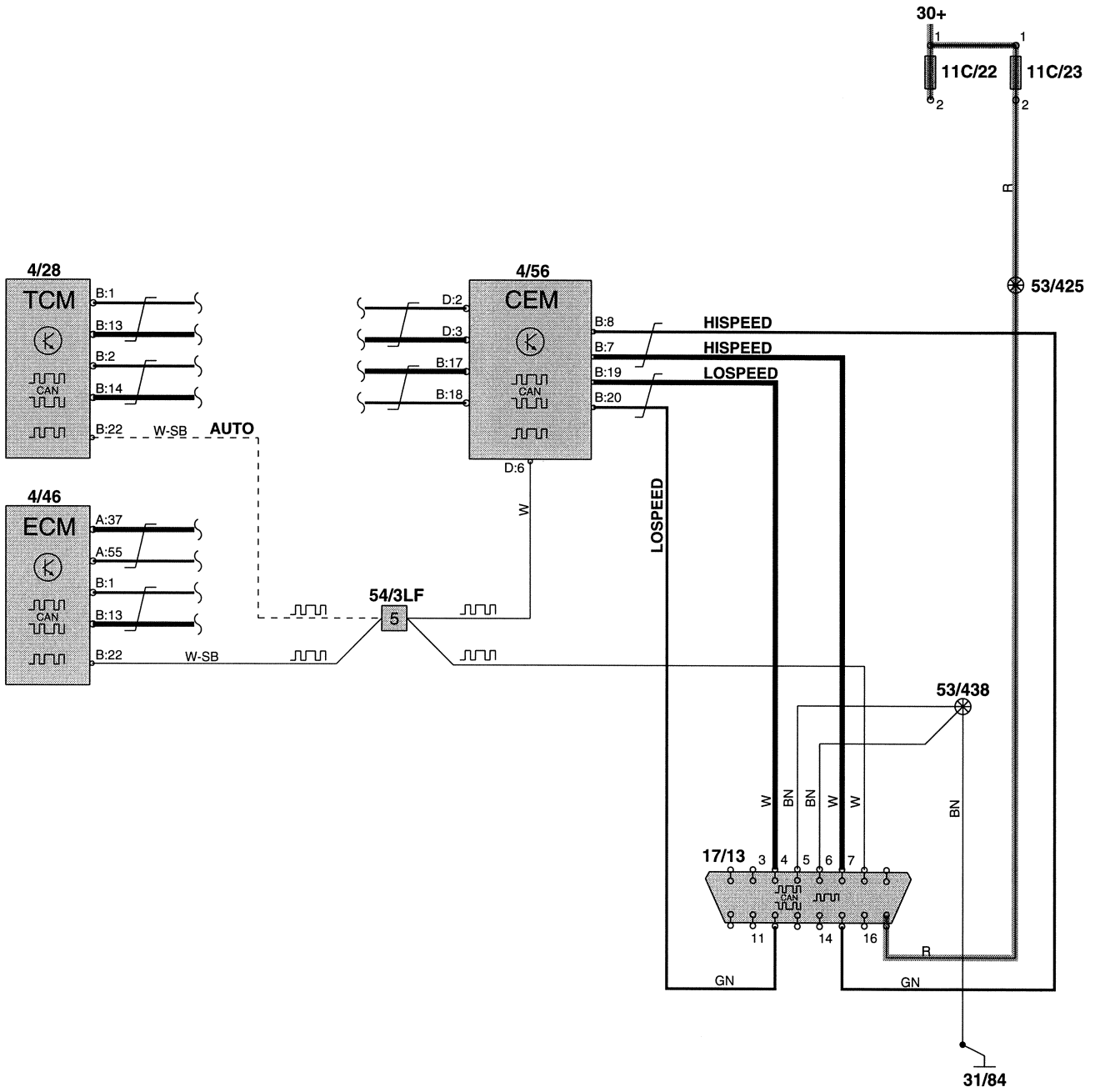
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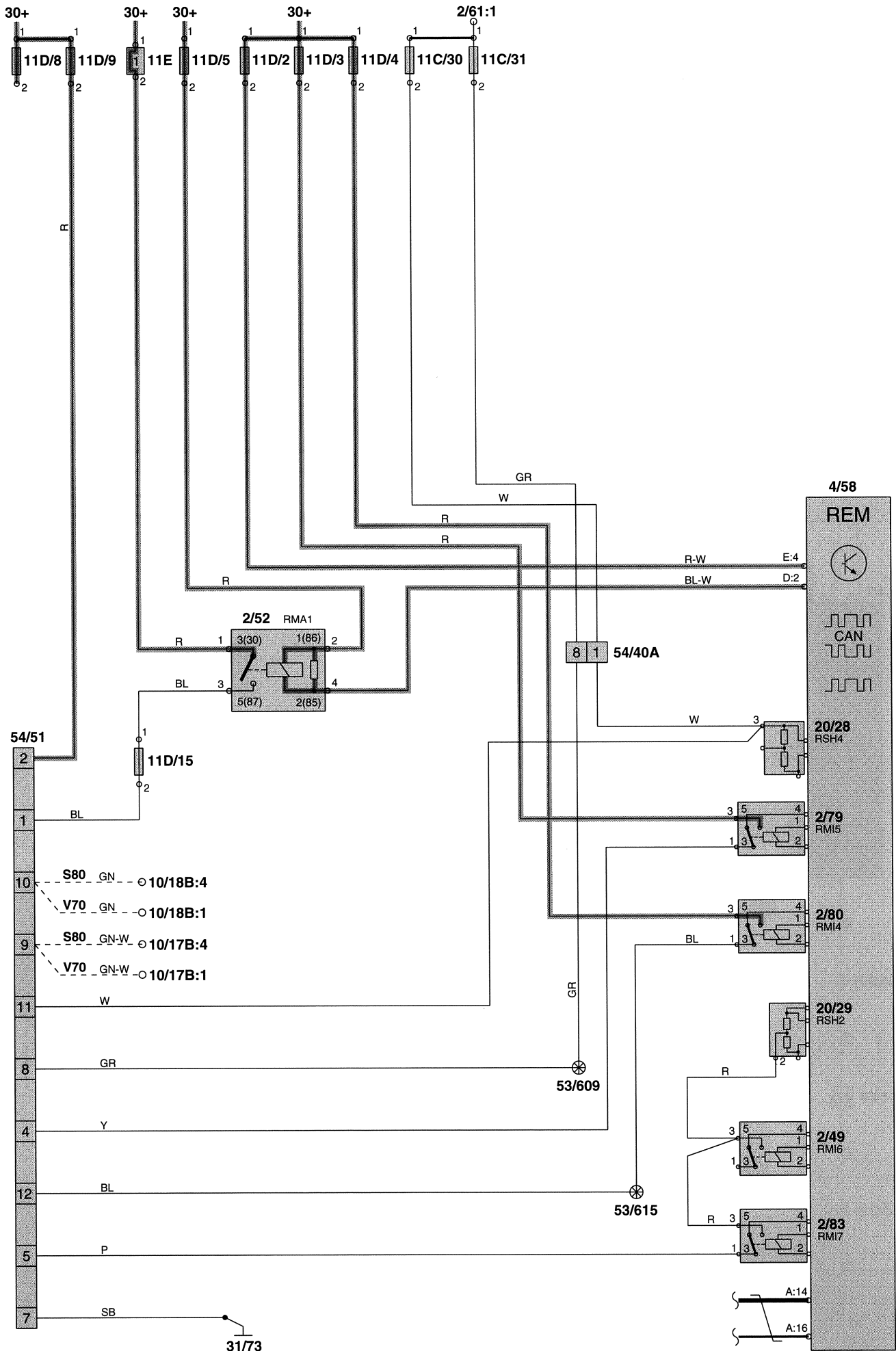
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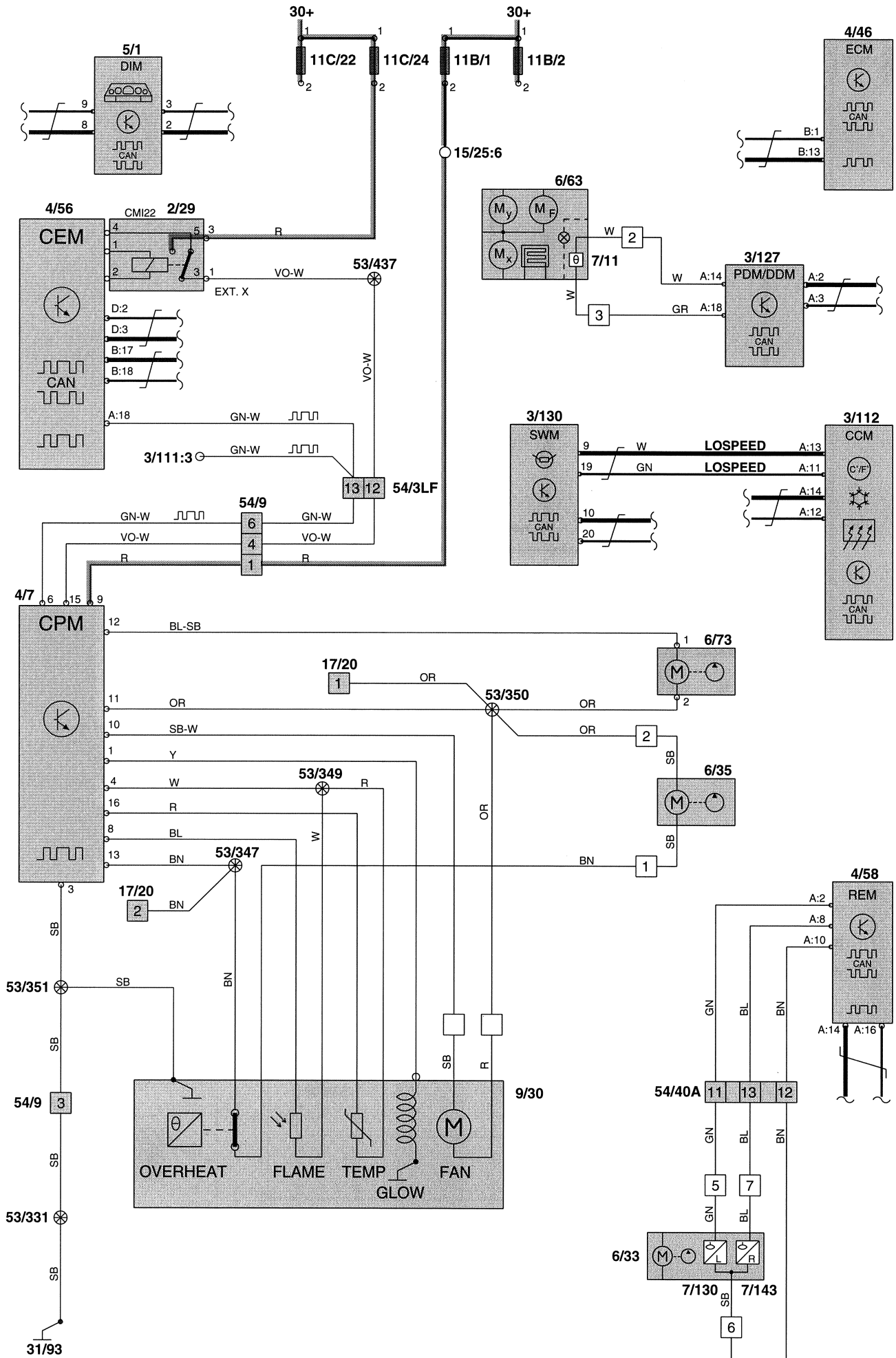
# Diagnostics system



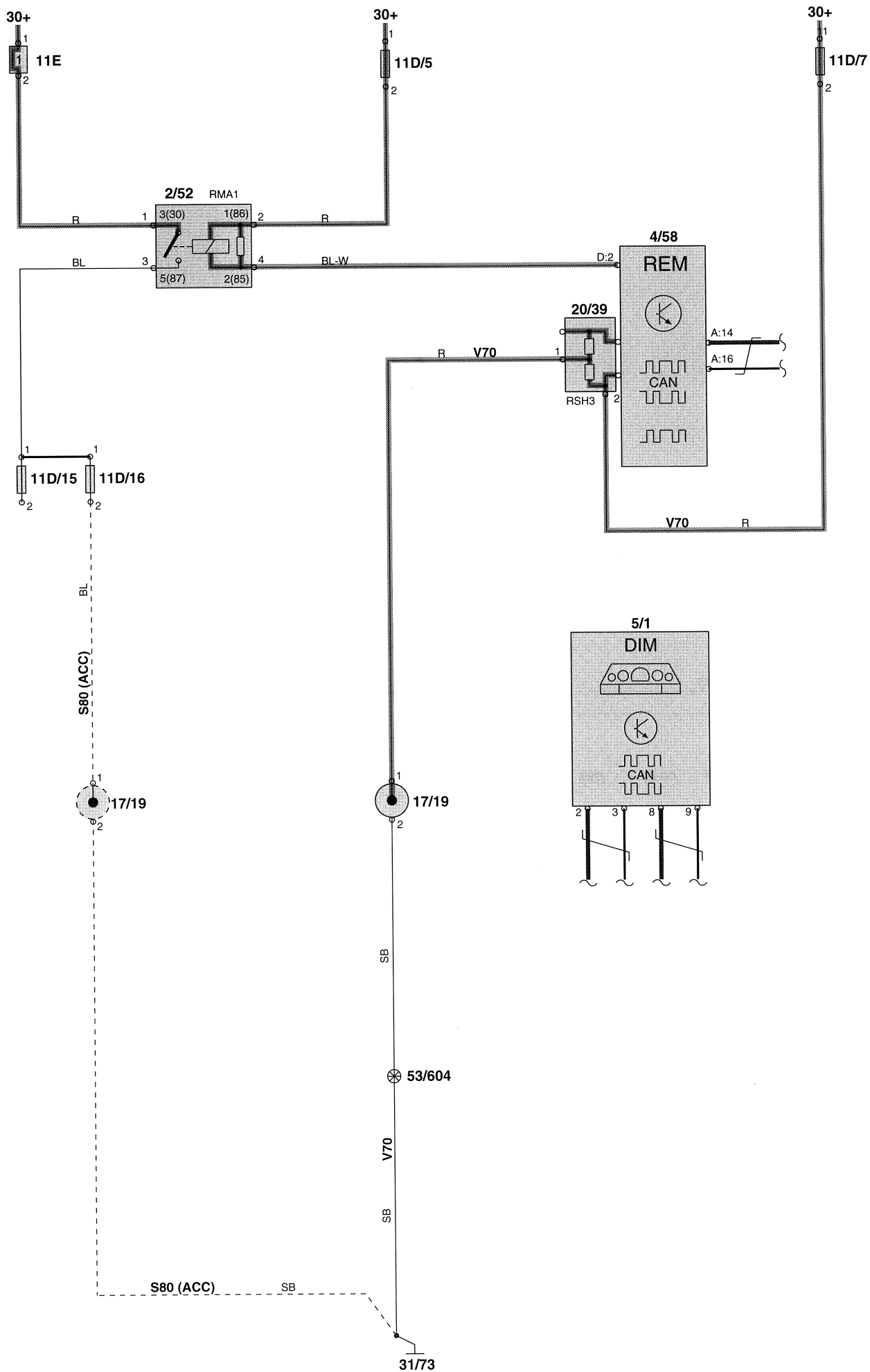




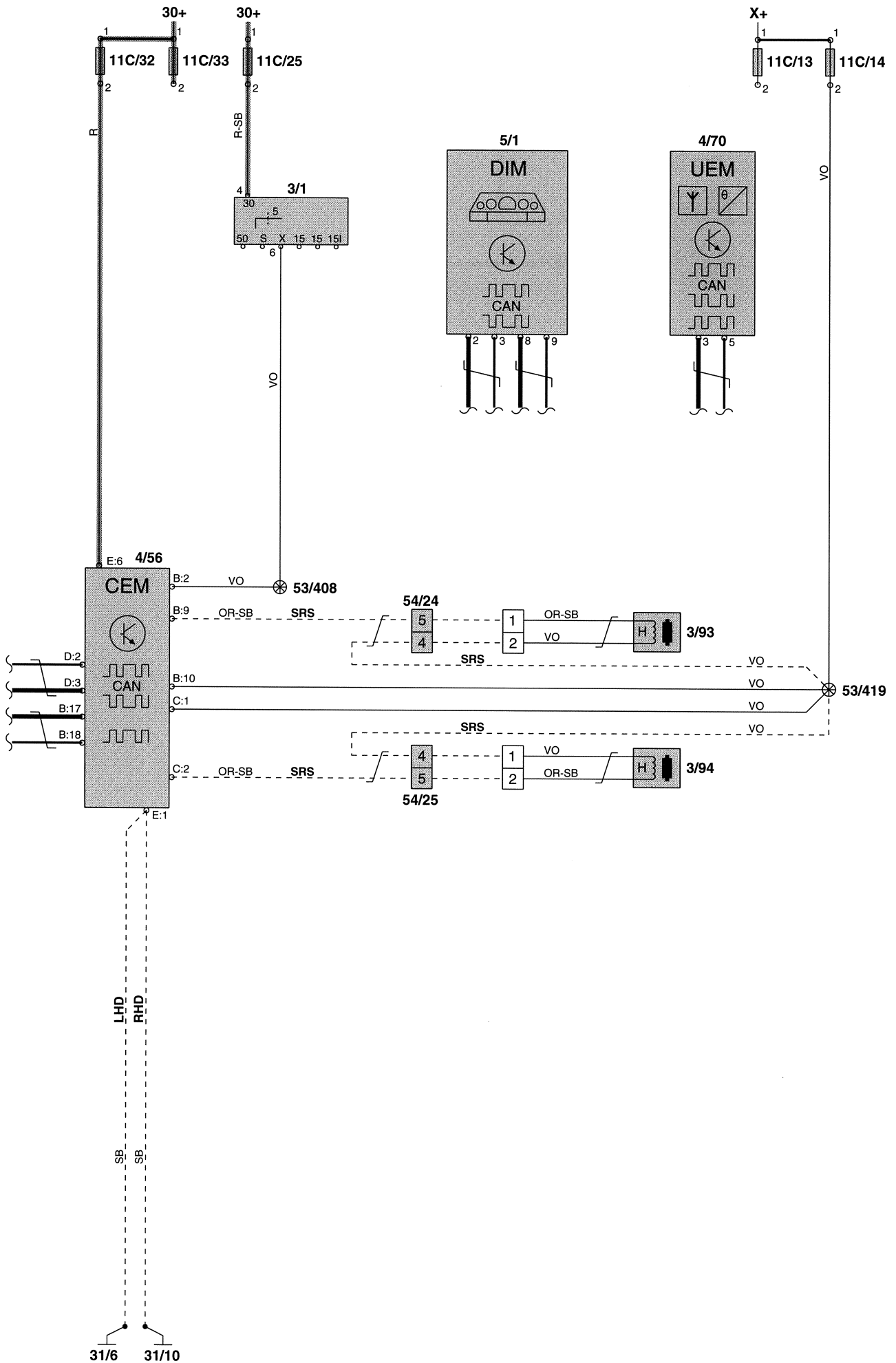
# Auxiliary heater Parking heater

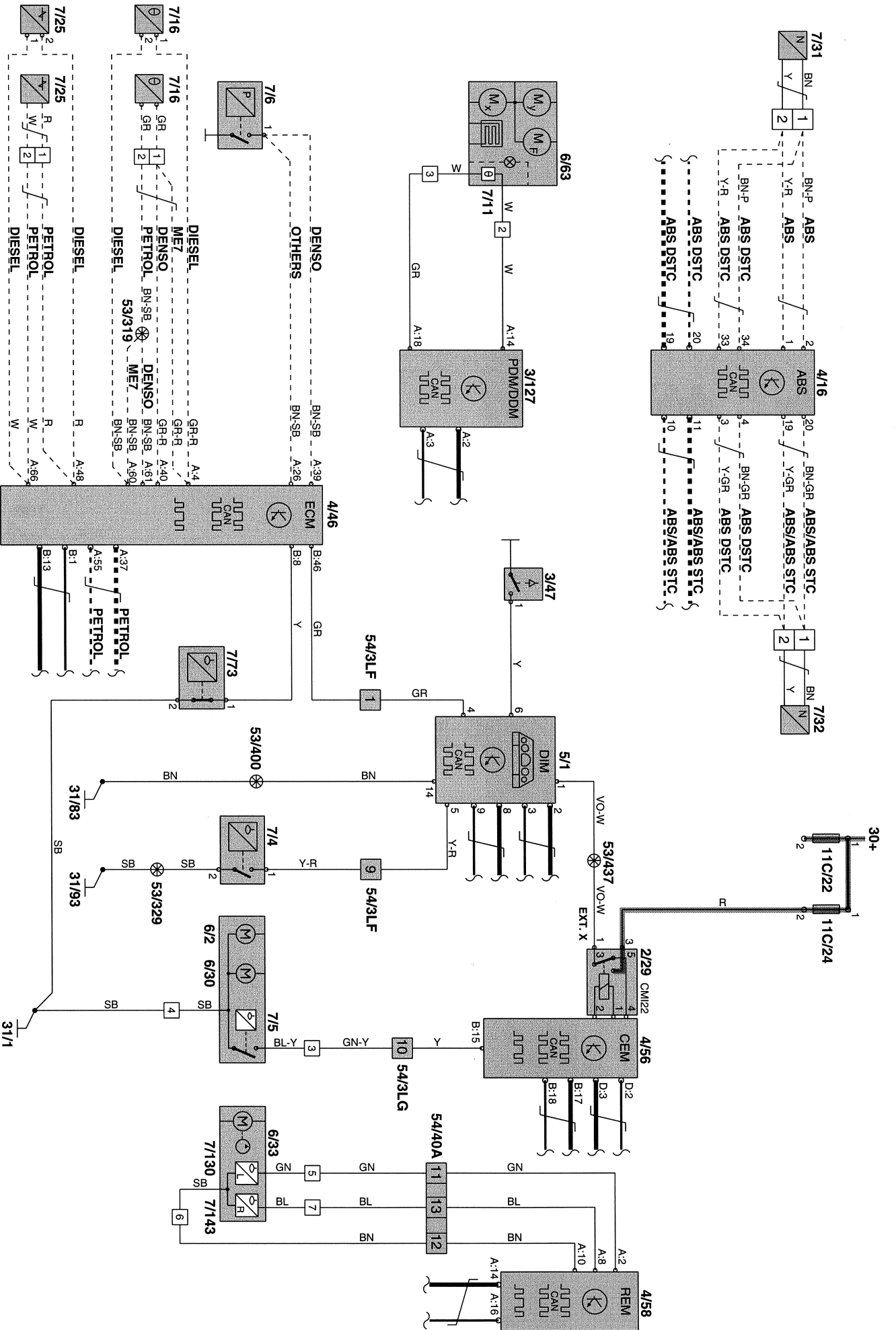


# 12V outlet, cargo area/compartment

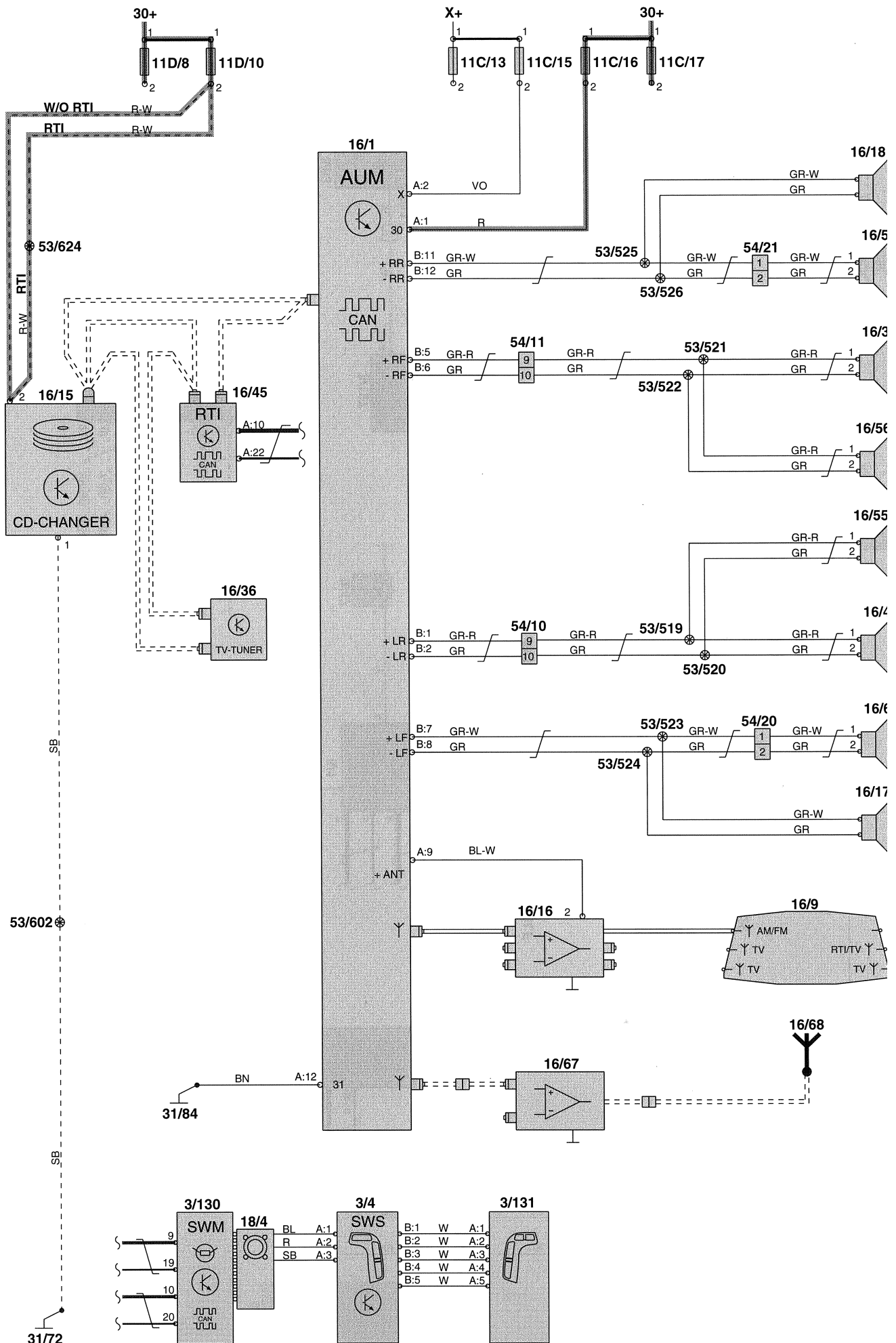


# Seat belt reminder

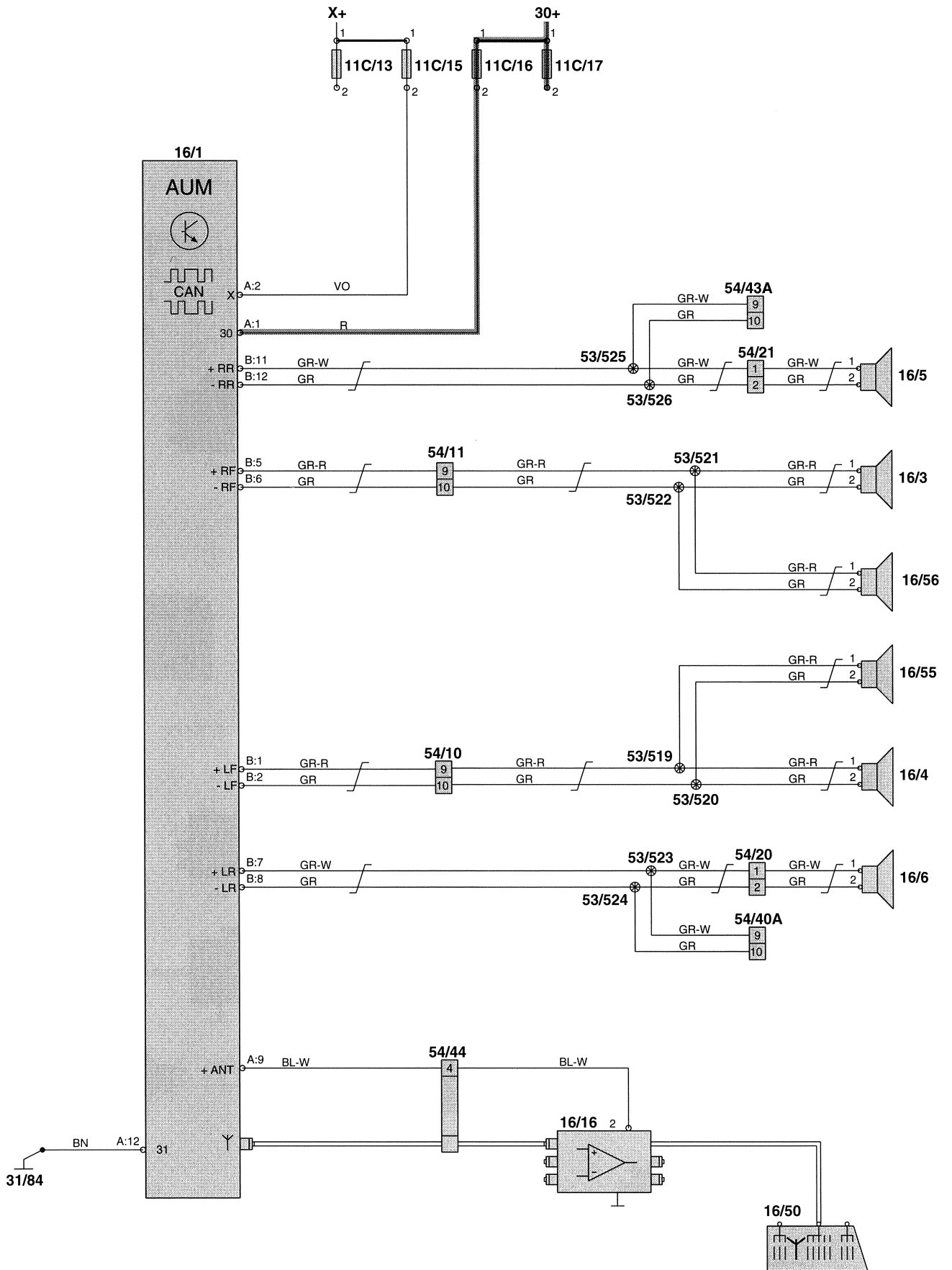




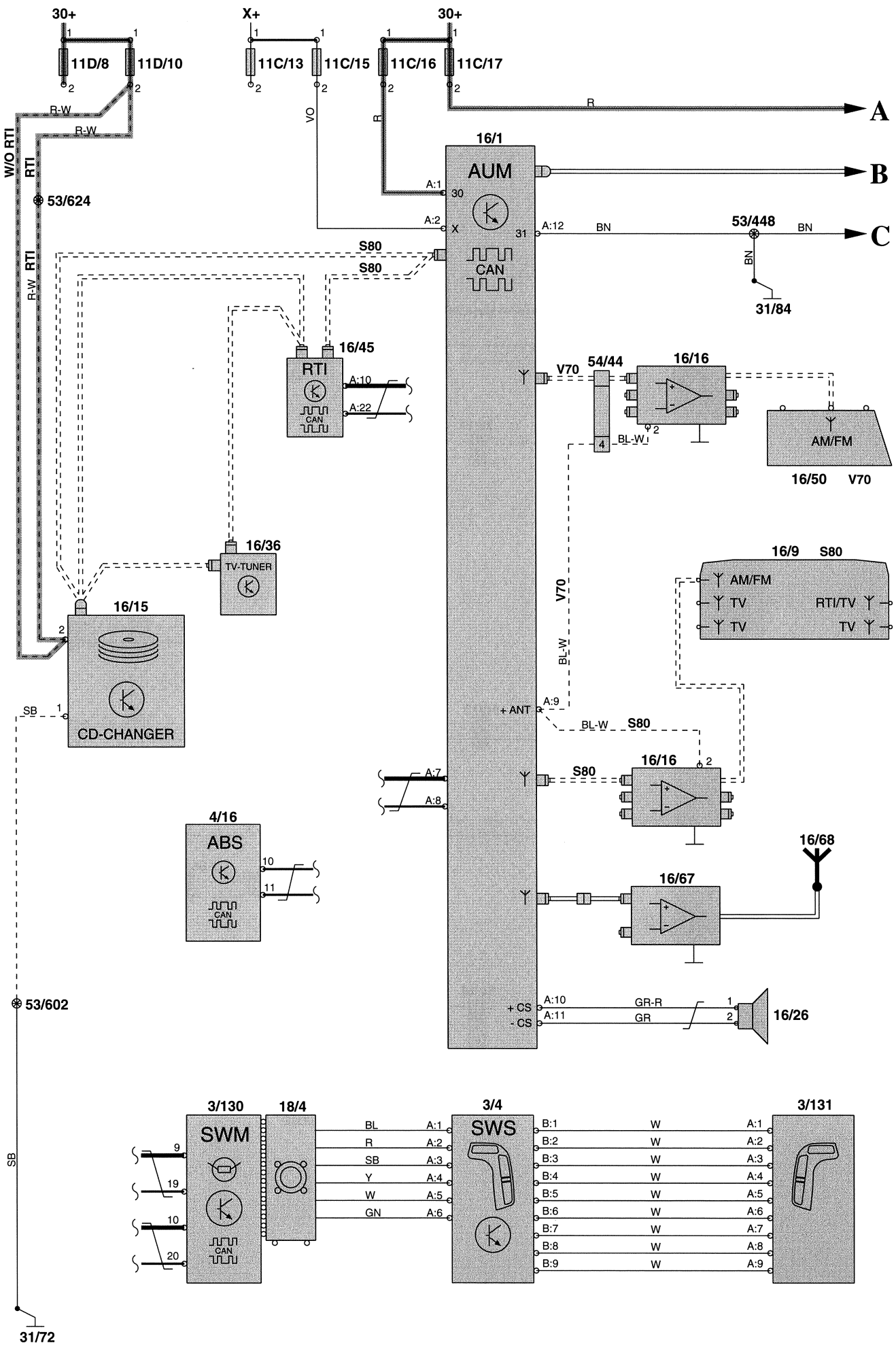
# Radio without extra amplifier S80



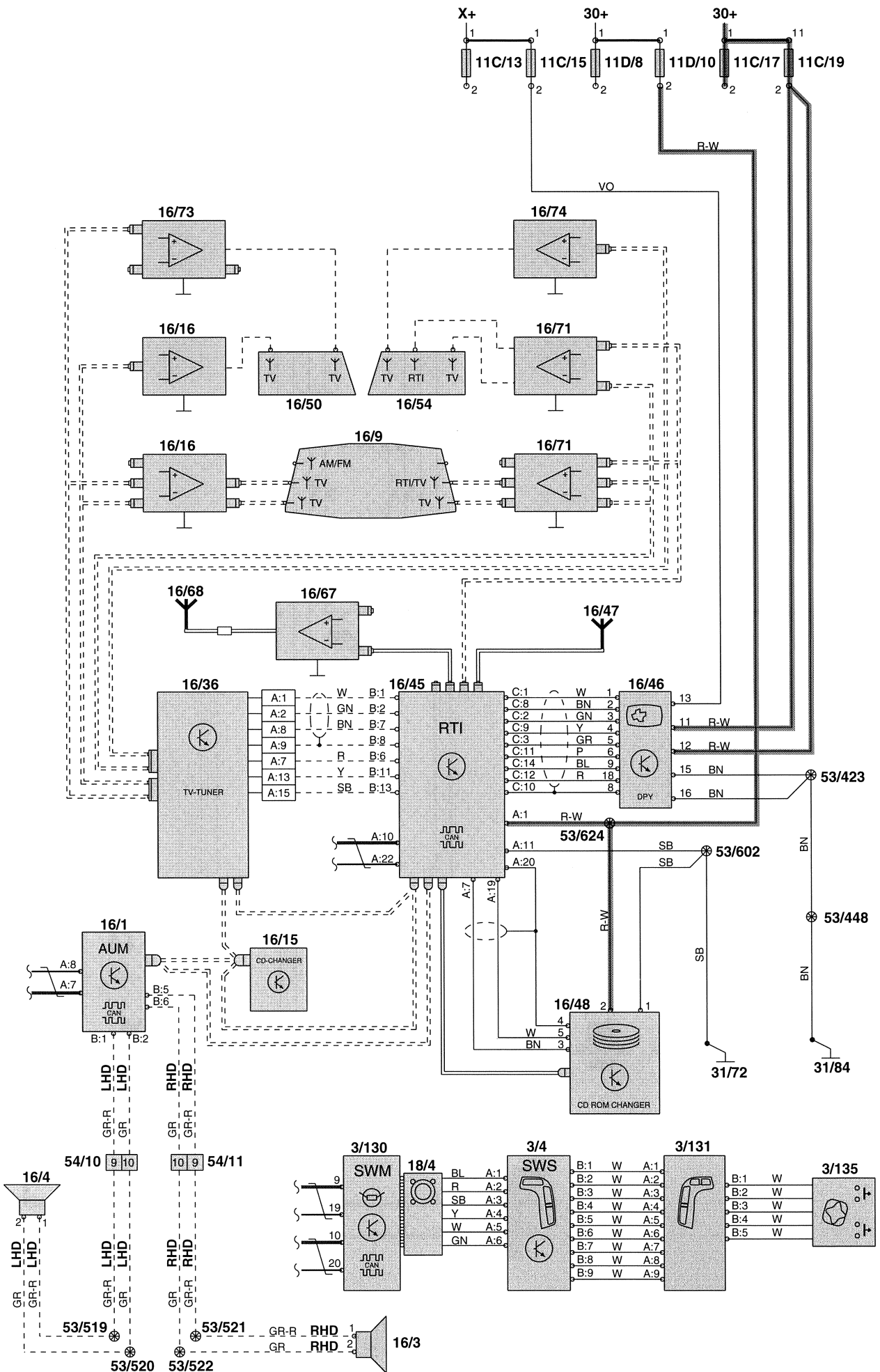
# Radio without extra amplifier V70



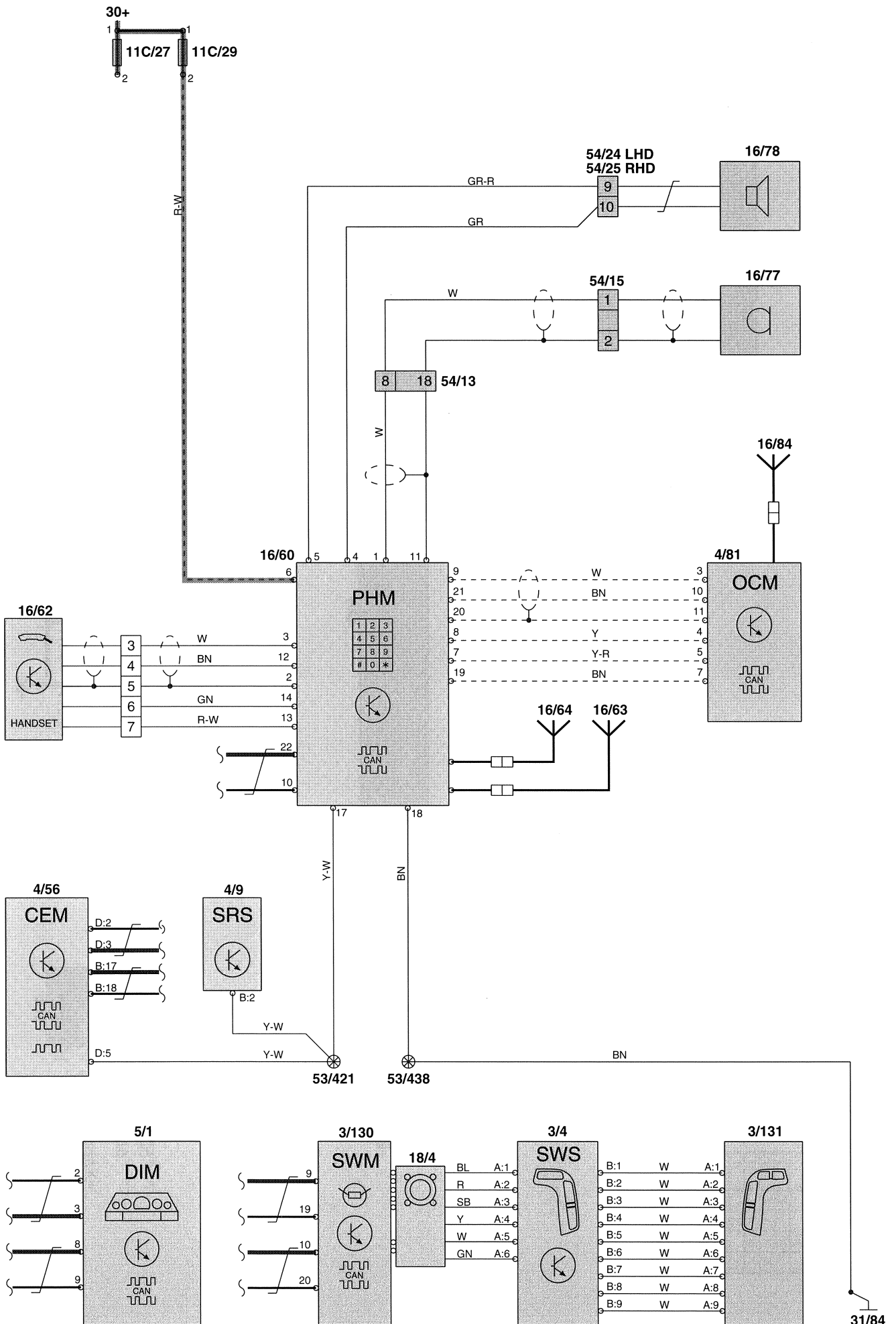
# Radio with extra amplifier



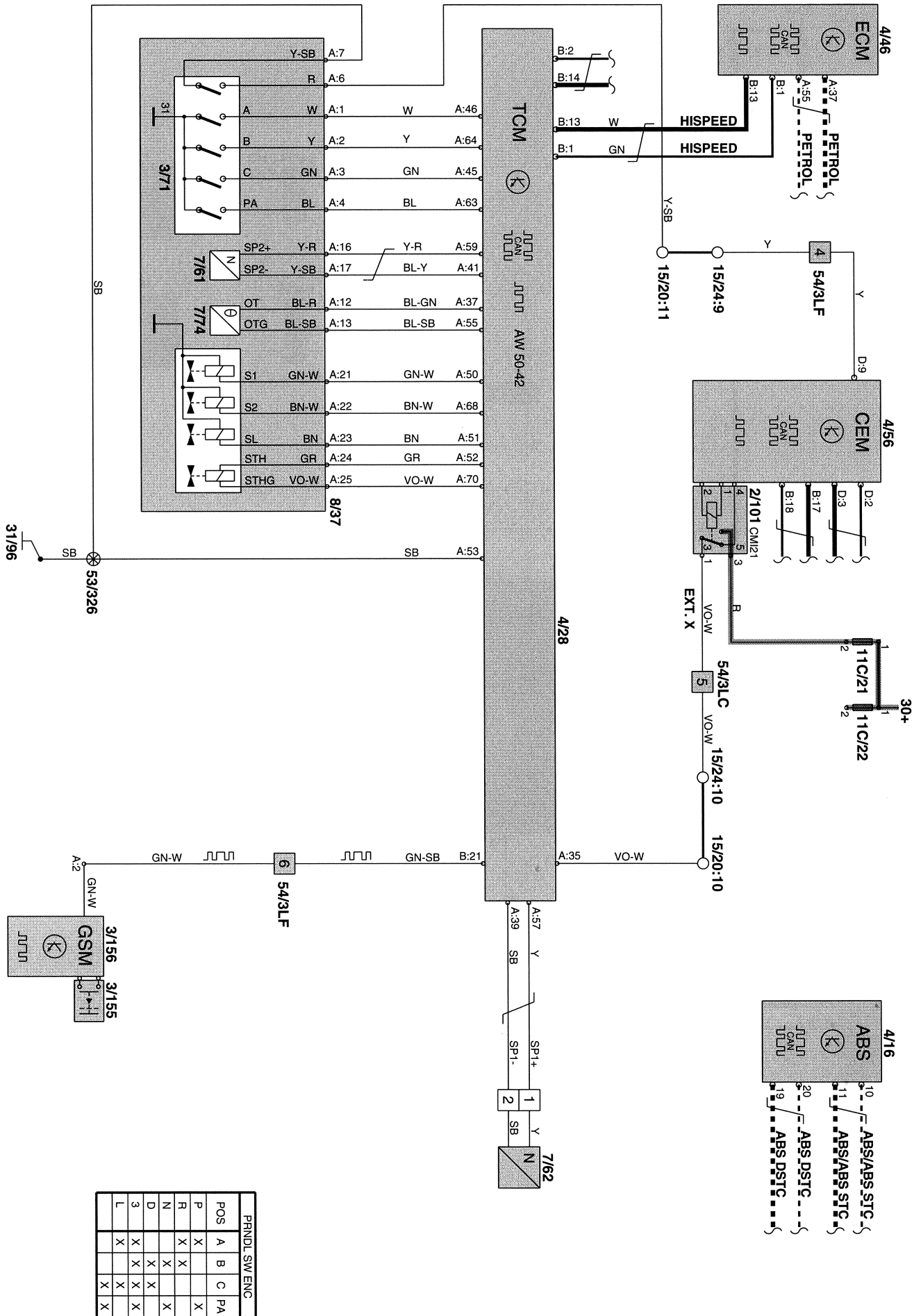
# Road Traffic Information (RTI)





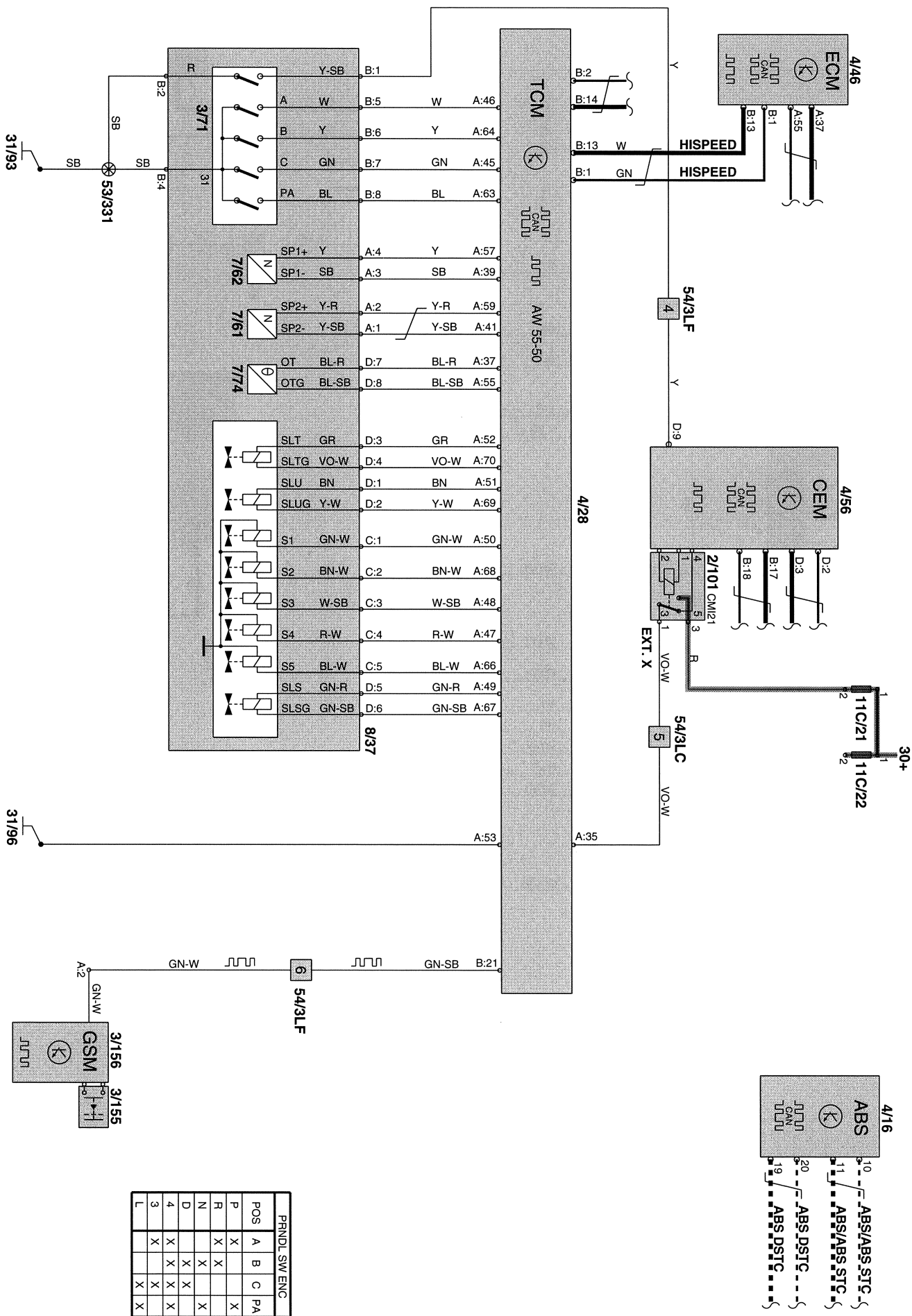


# Electronically controlled automatic transmission AW 50-42

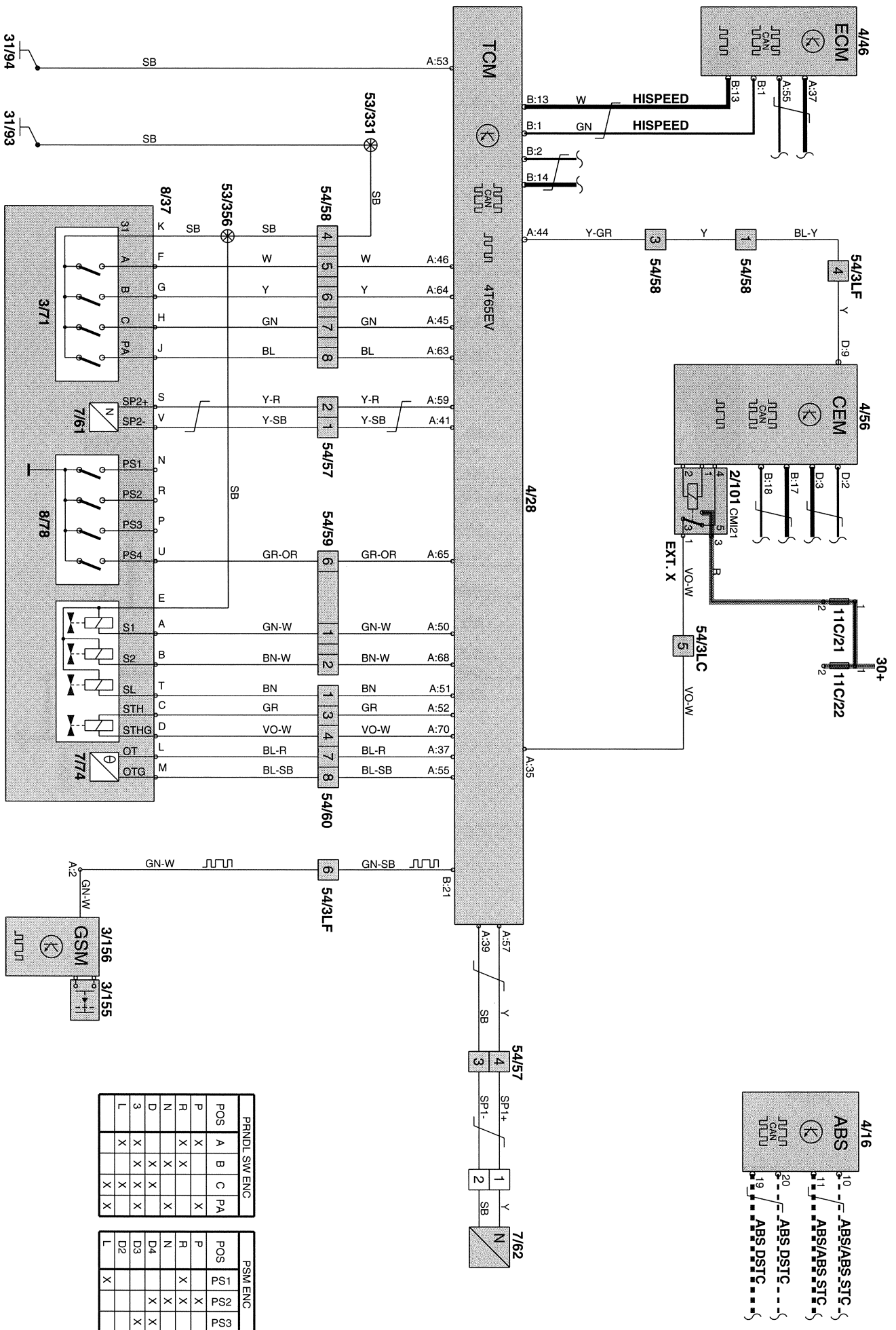


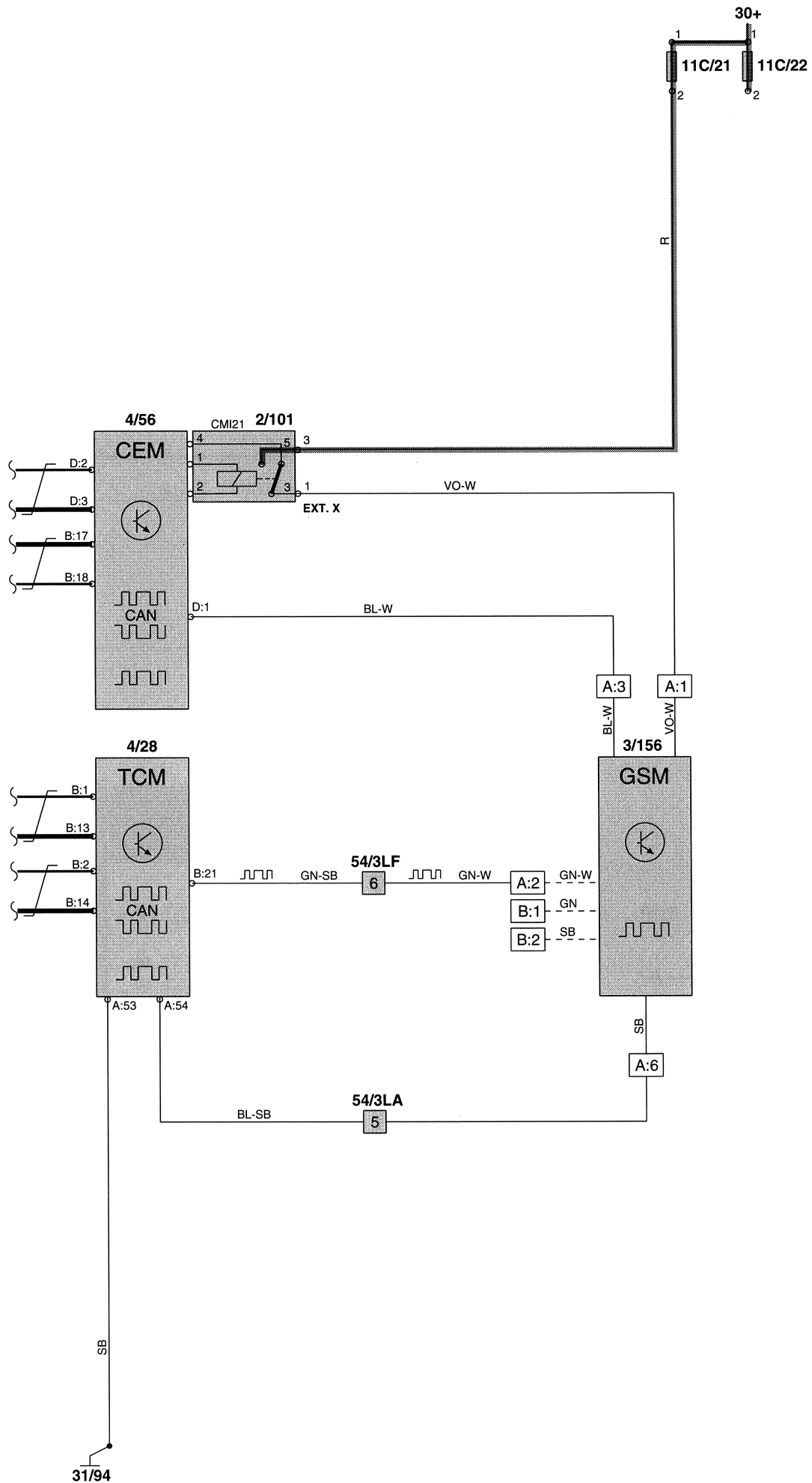
# Electronically controlled automatic transmission

## AW 55-50

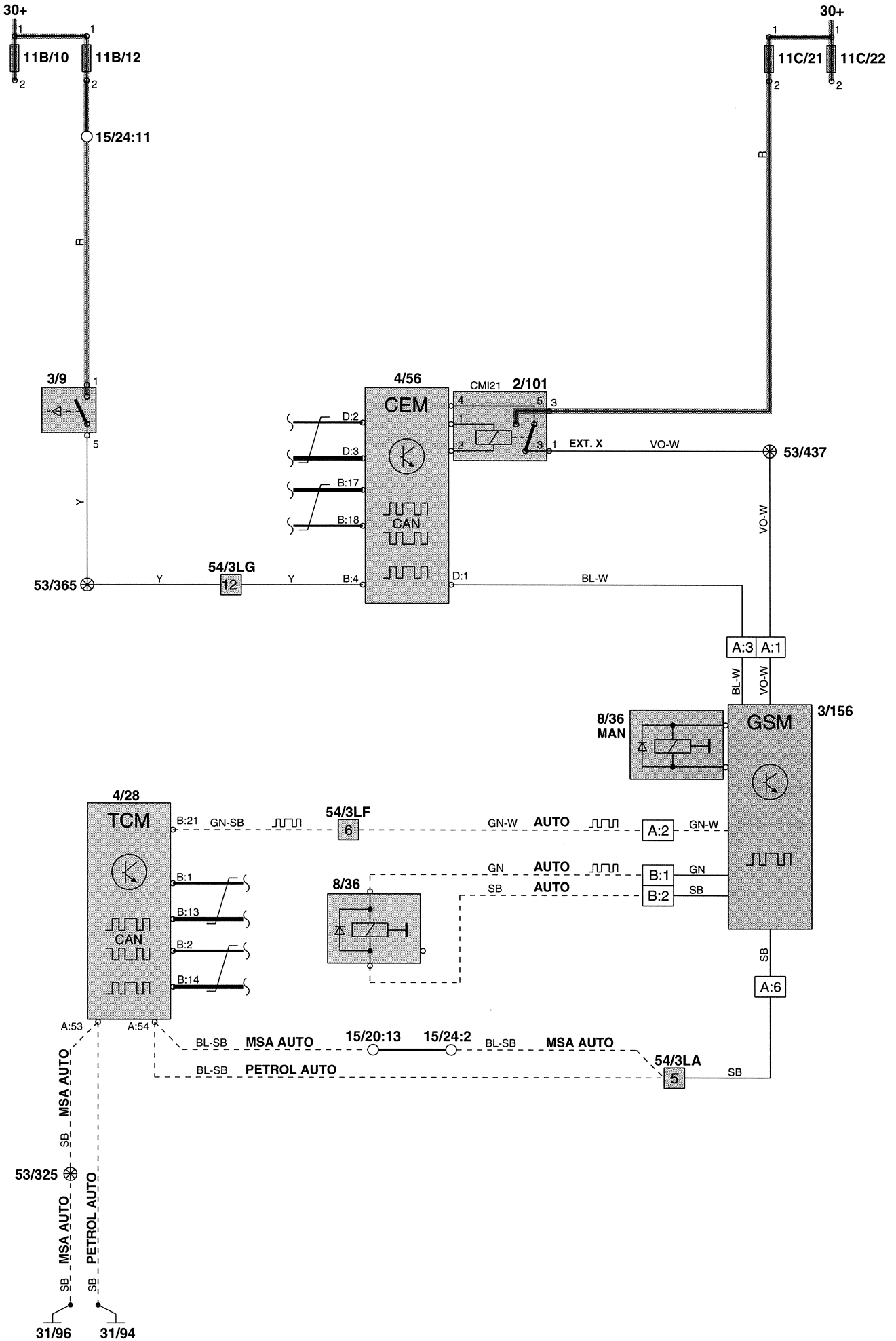


# Electronically controlled automatic transmission AW 4T65EV

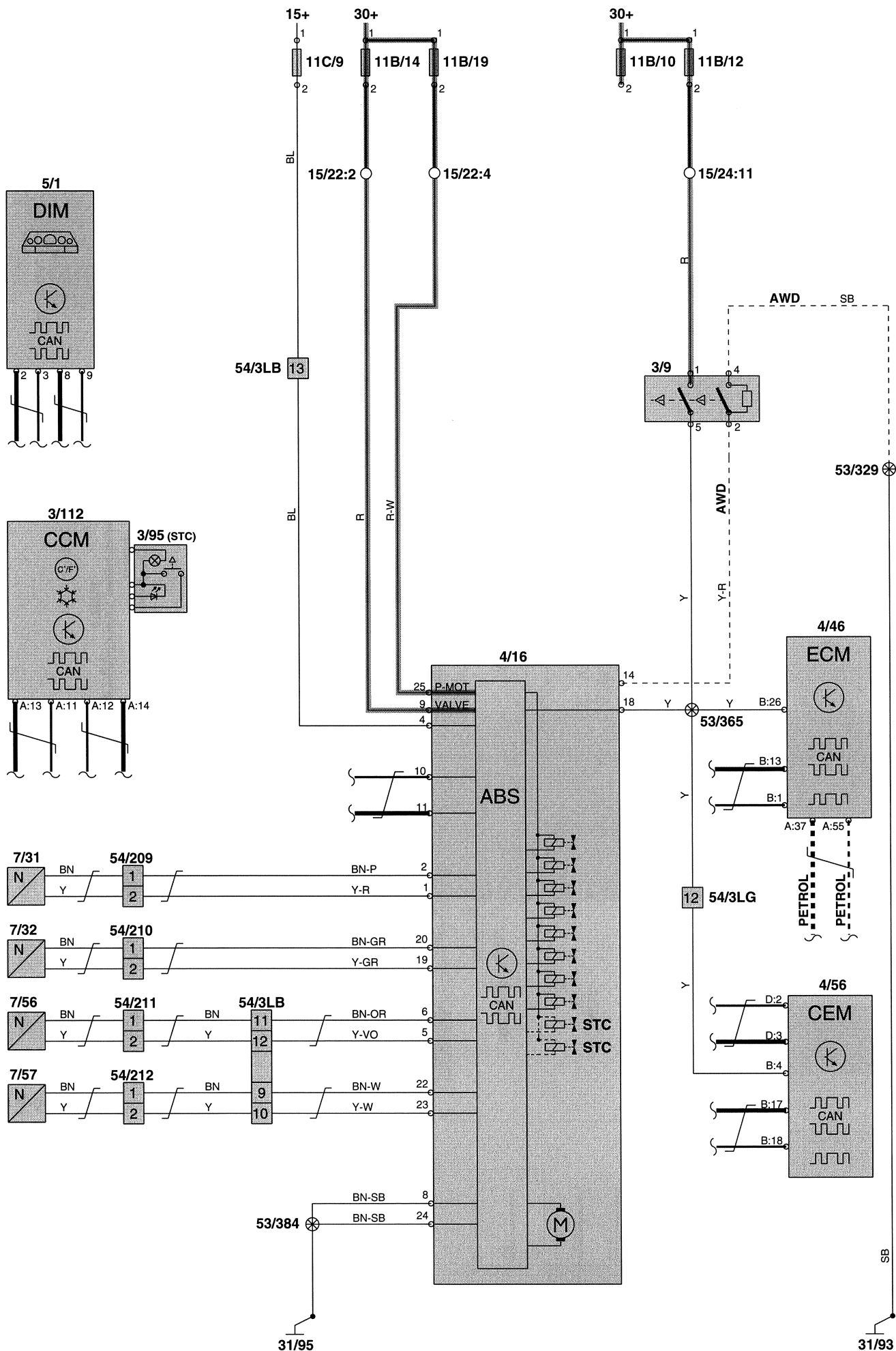




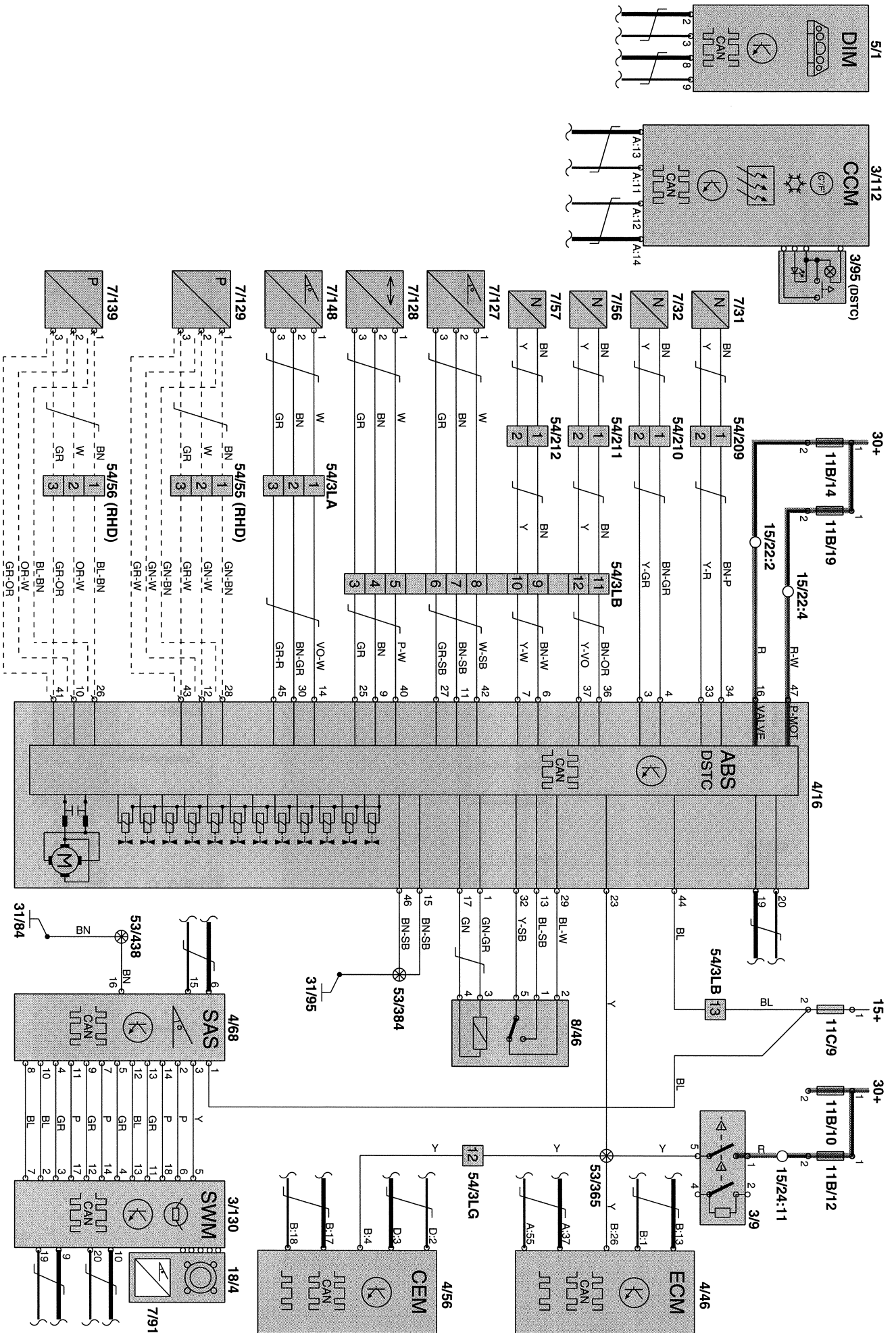
# Shift lock



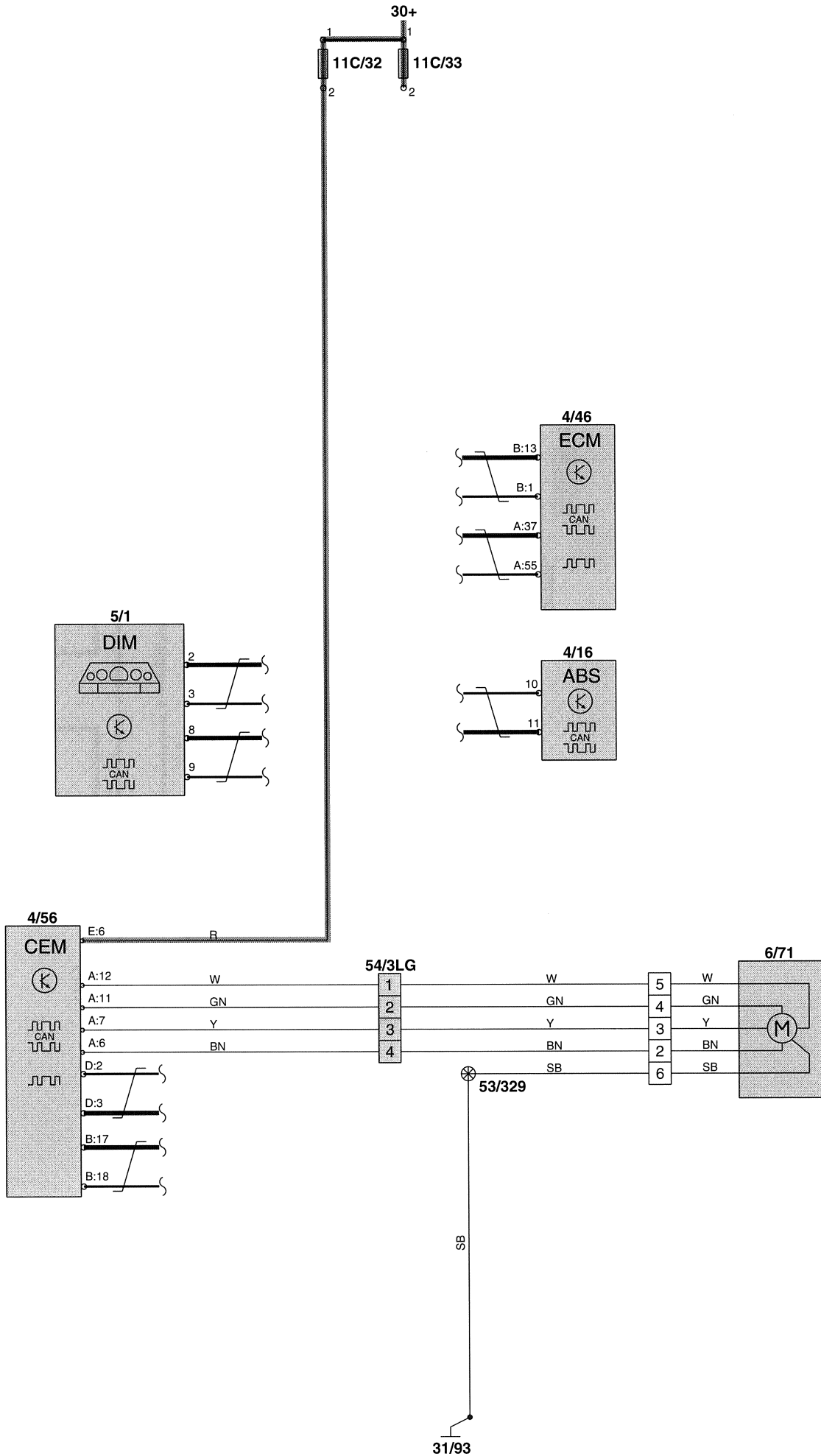
# ABS Brake system and STC



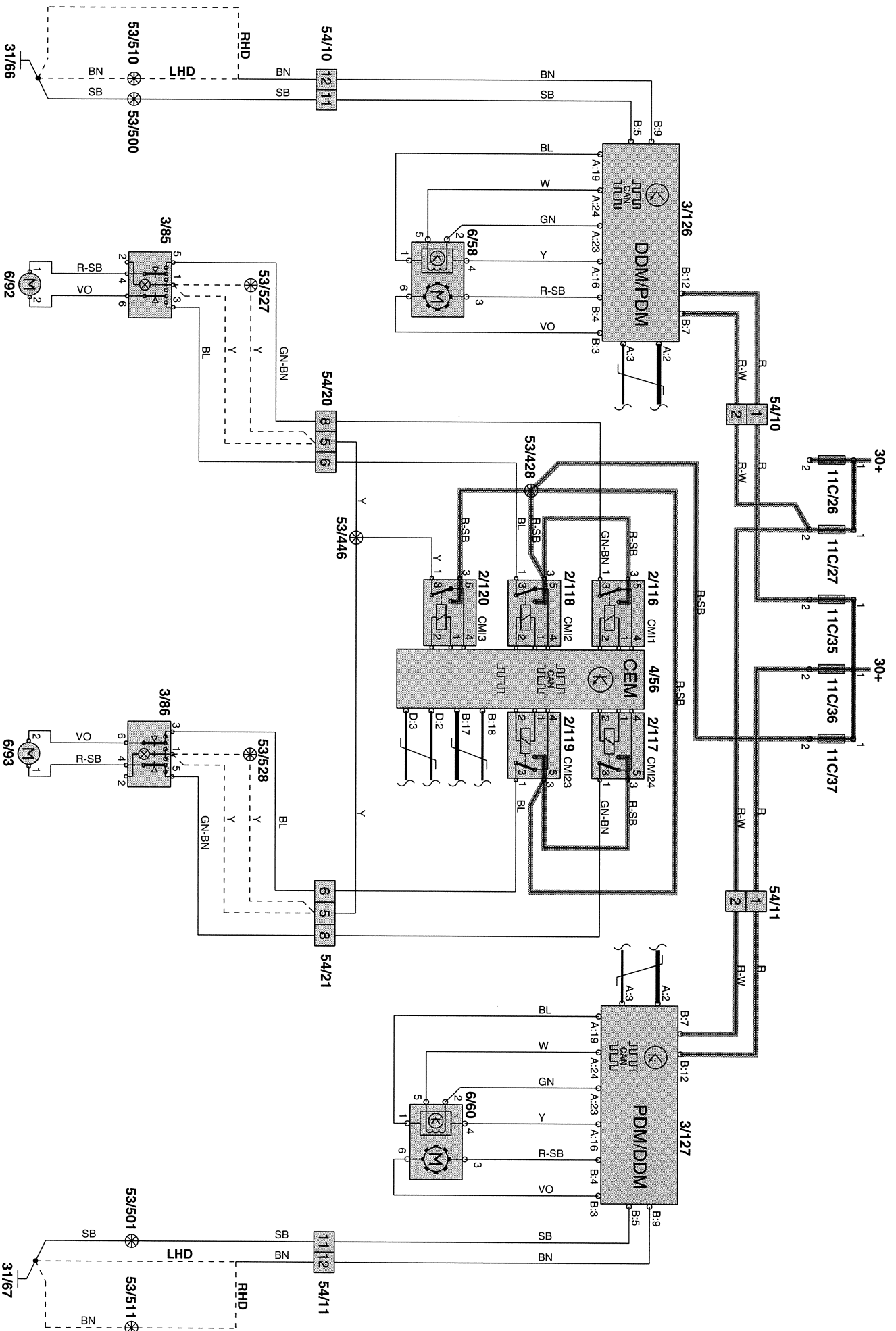
# ABS and DSTC

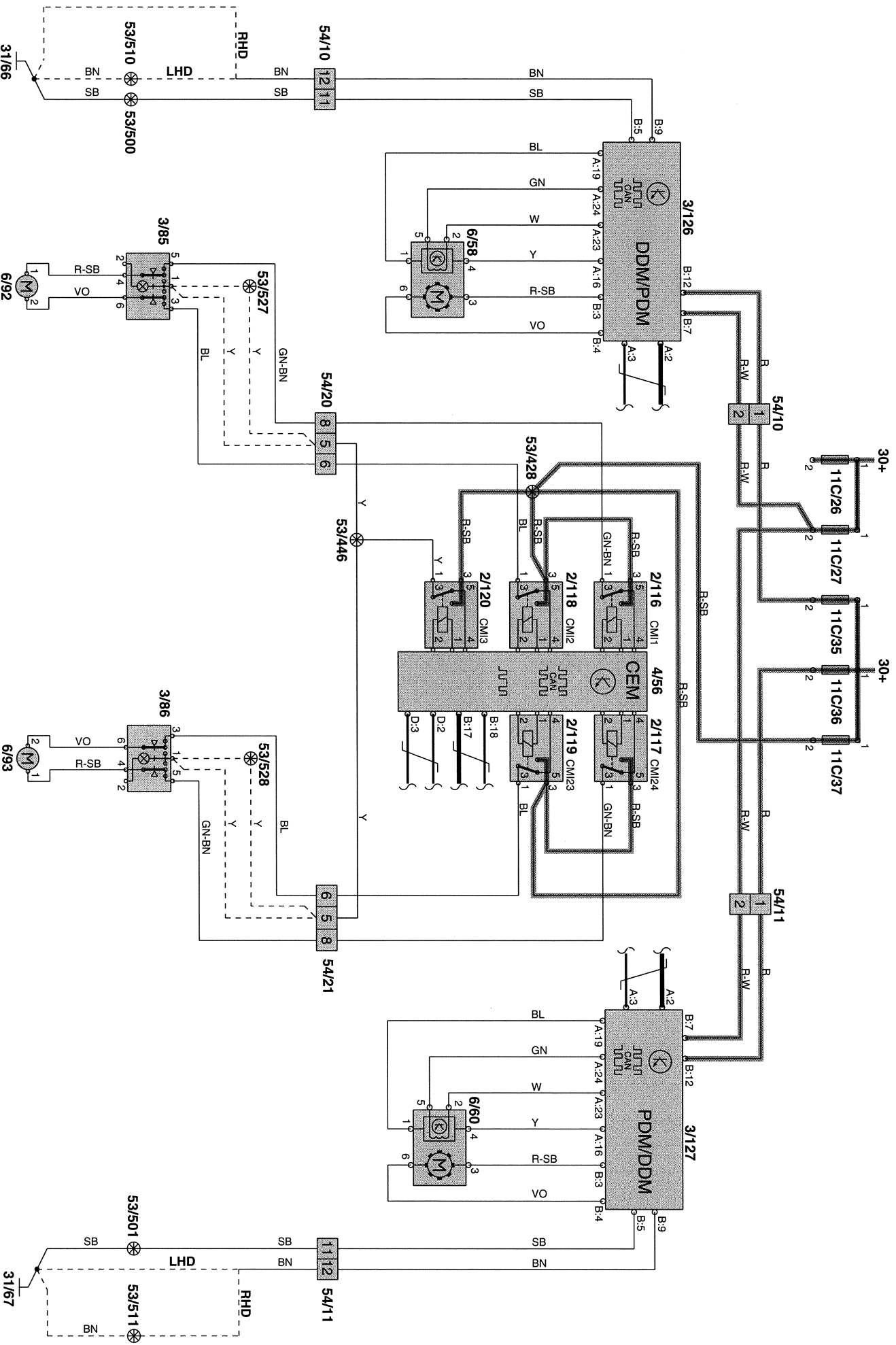




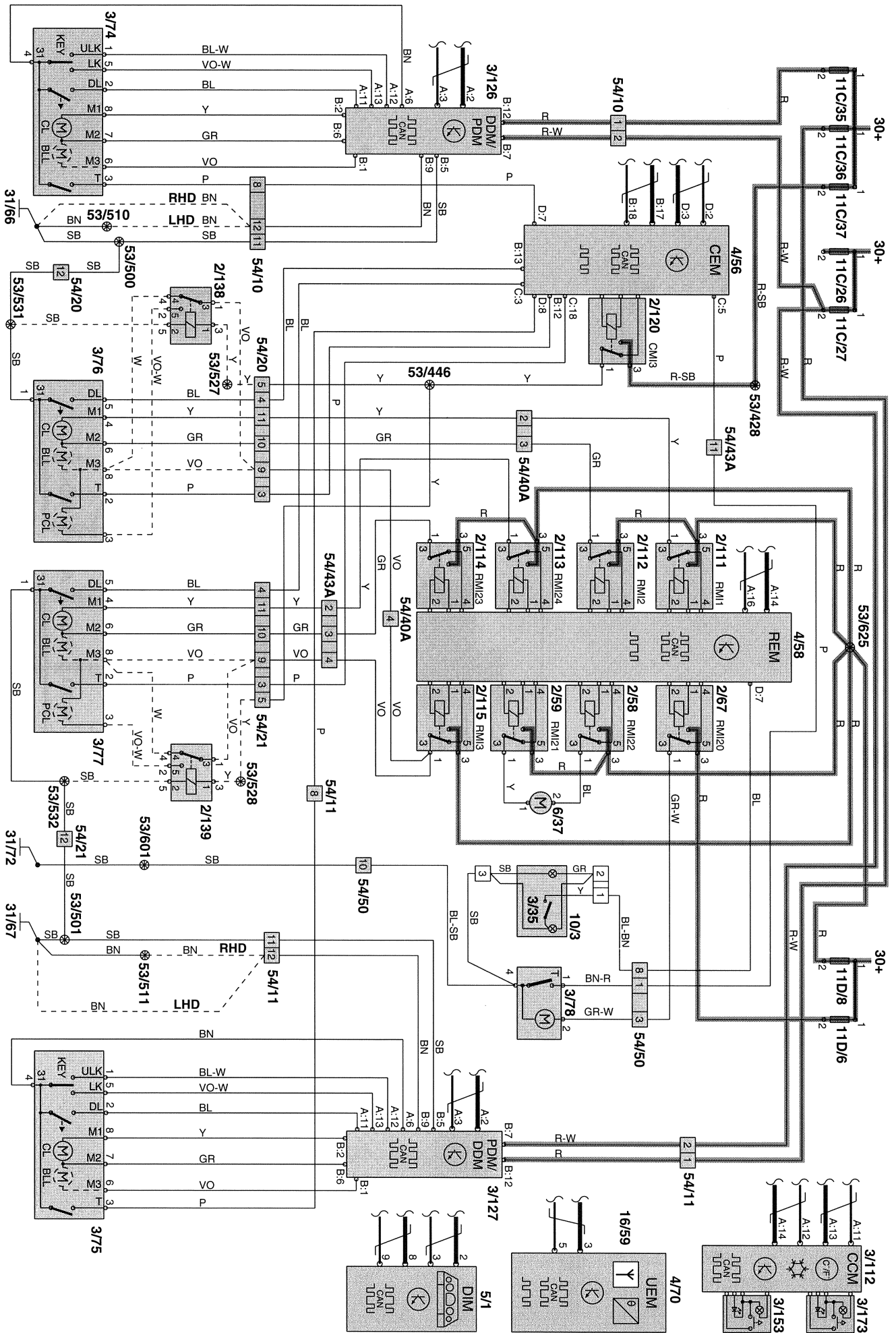


# Power windows S80

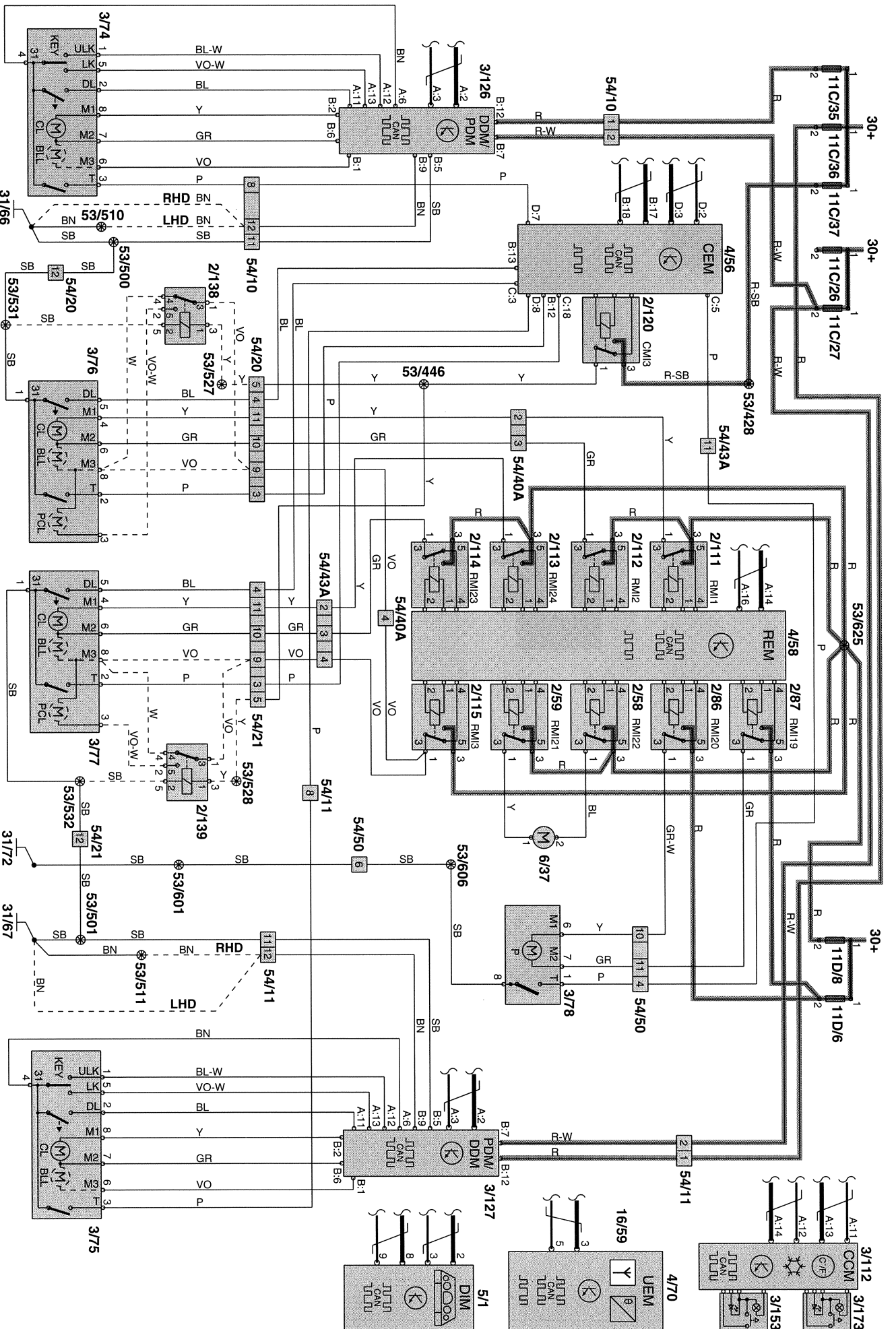




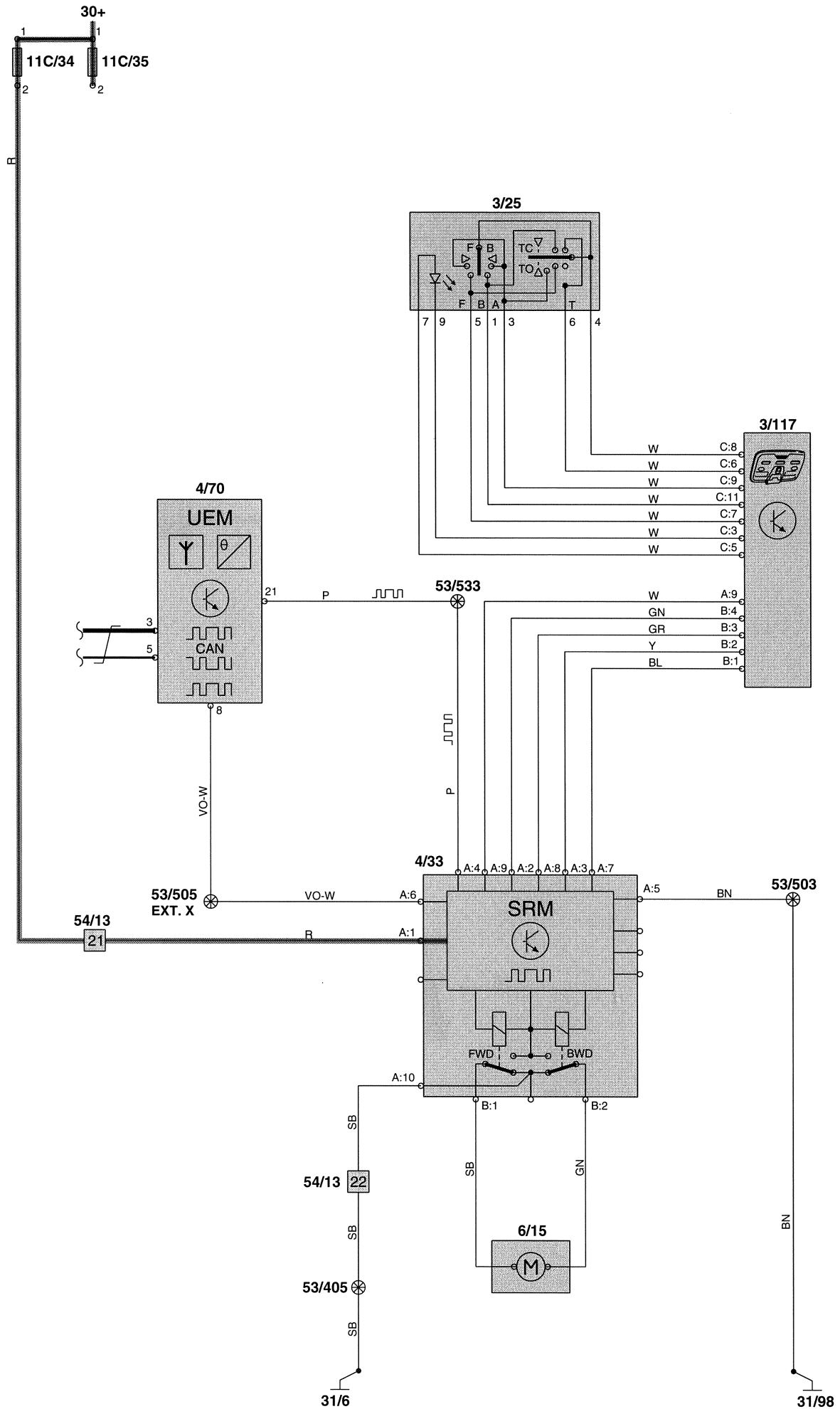
# Central lock S80



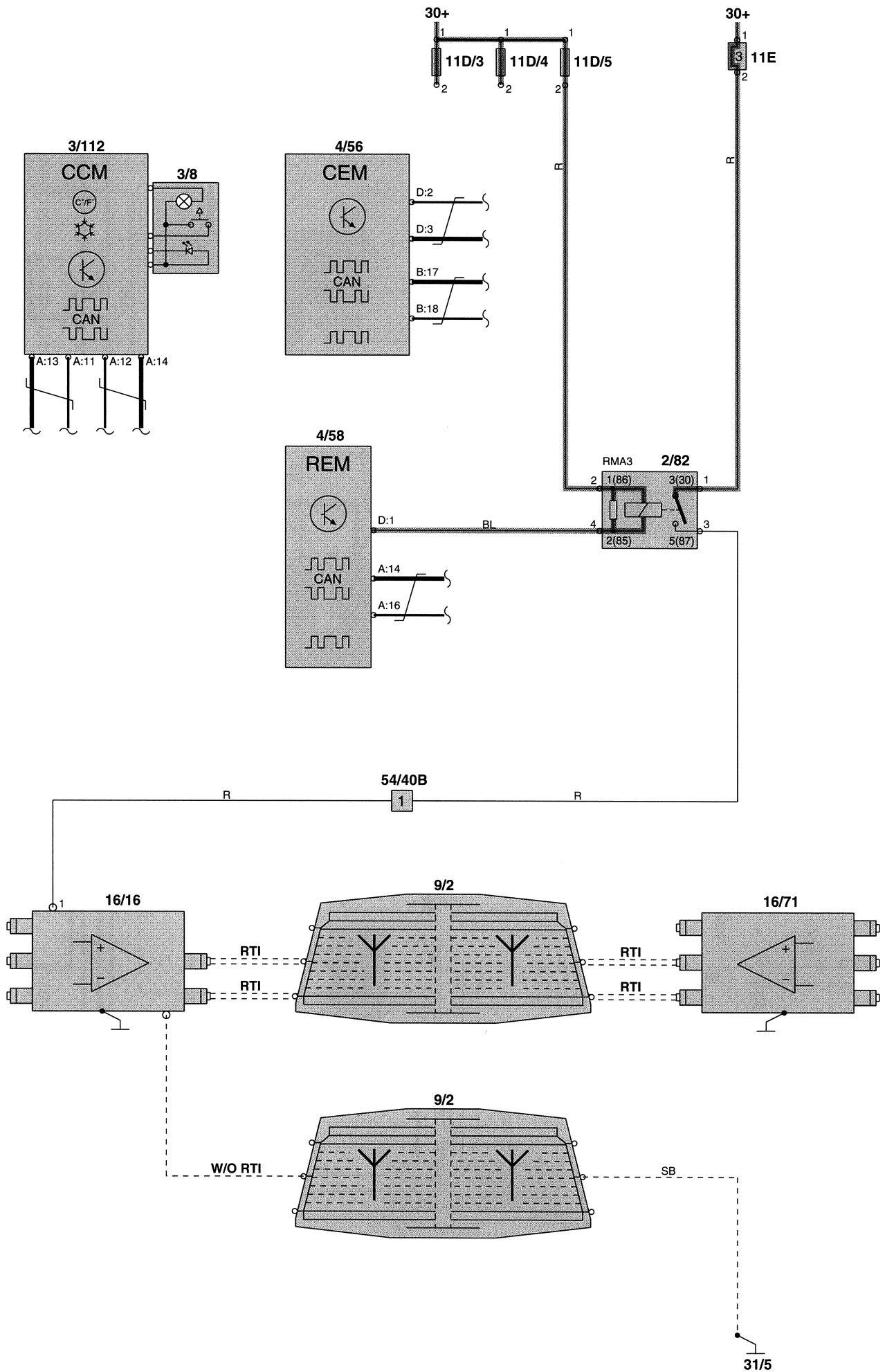
# Central lock V70



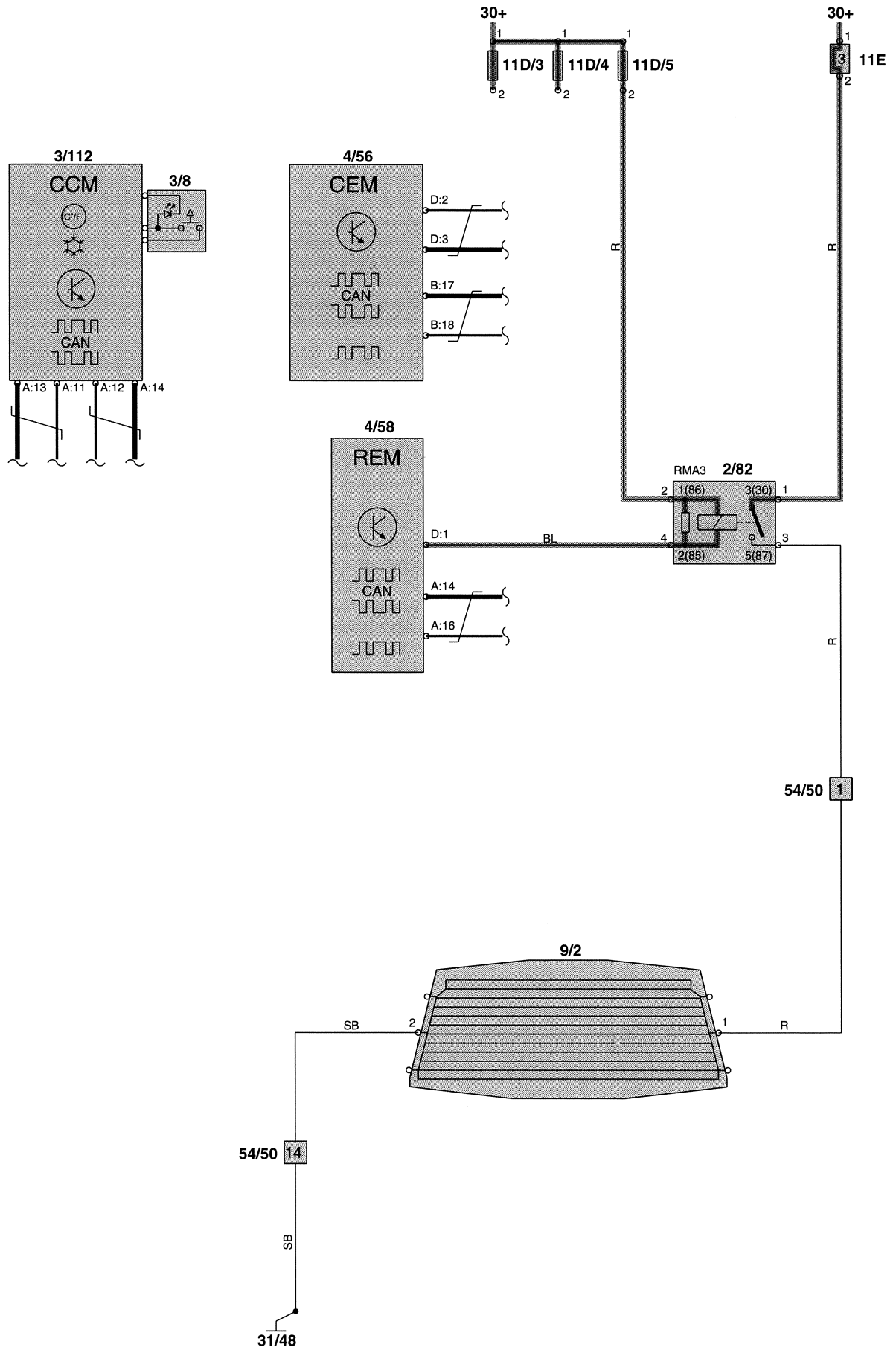
# Power sunroof



# Heated rear window S80

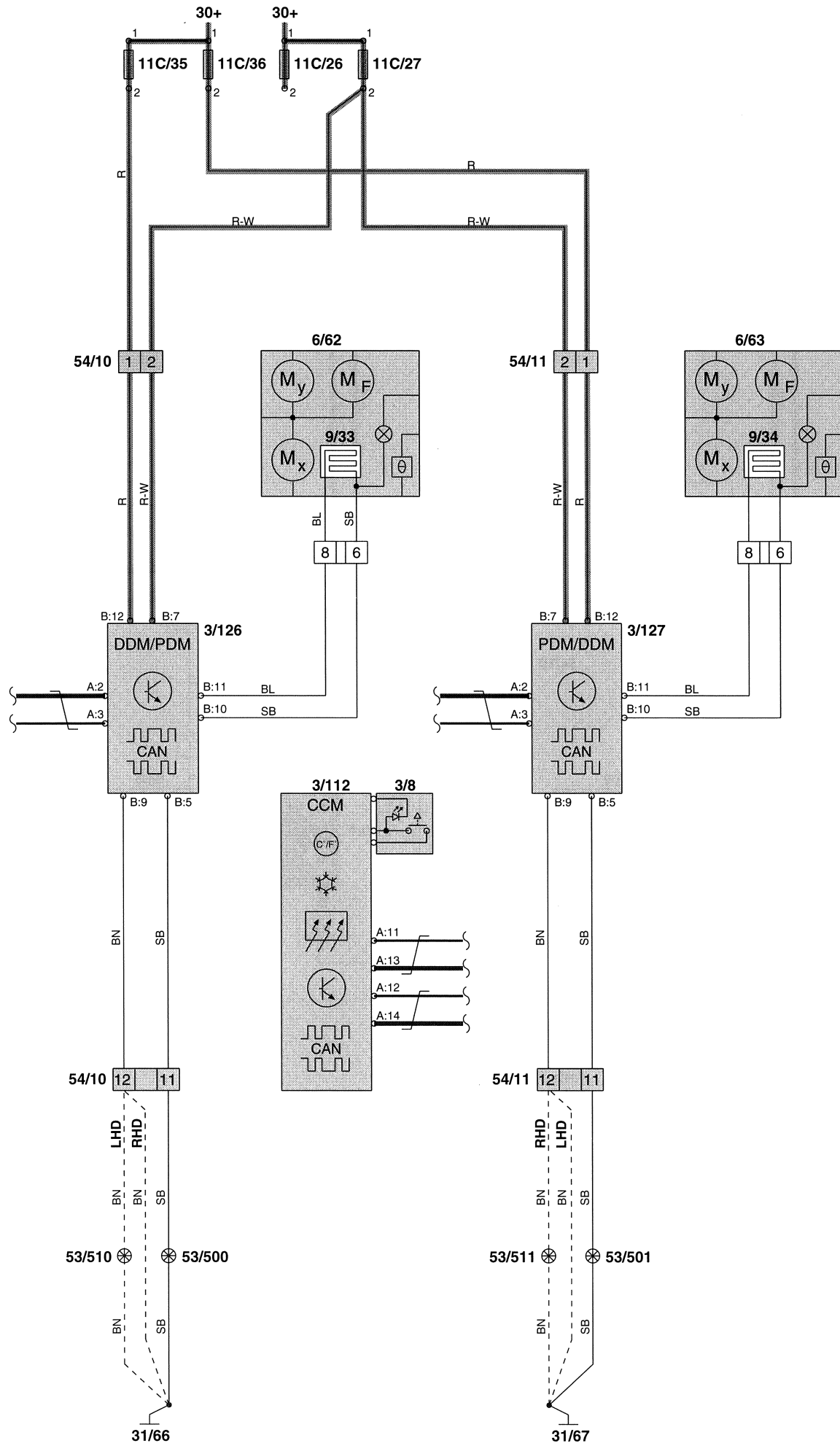


# Heated rear window V70

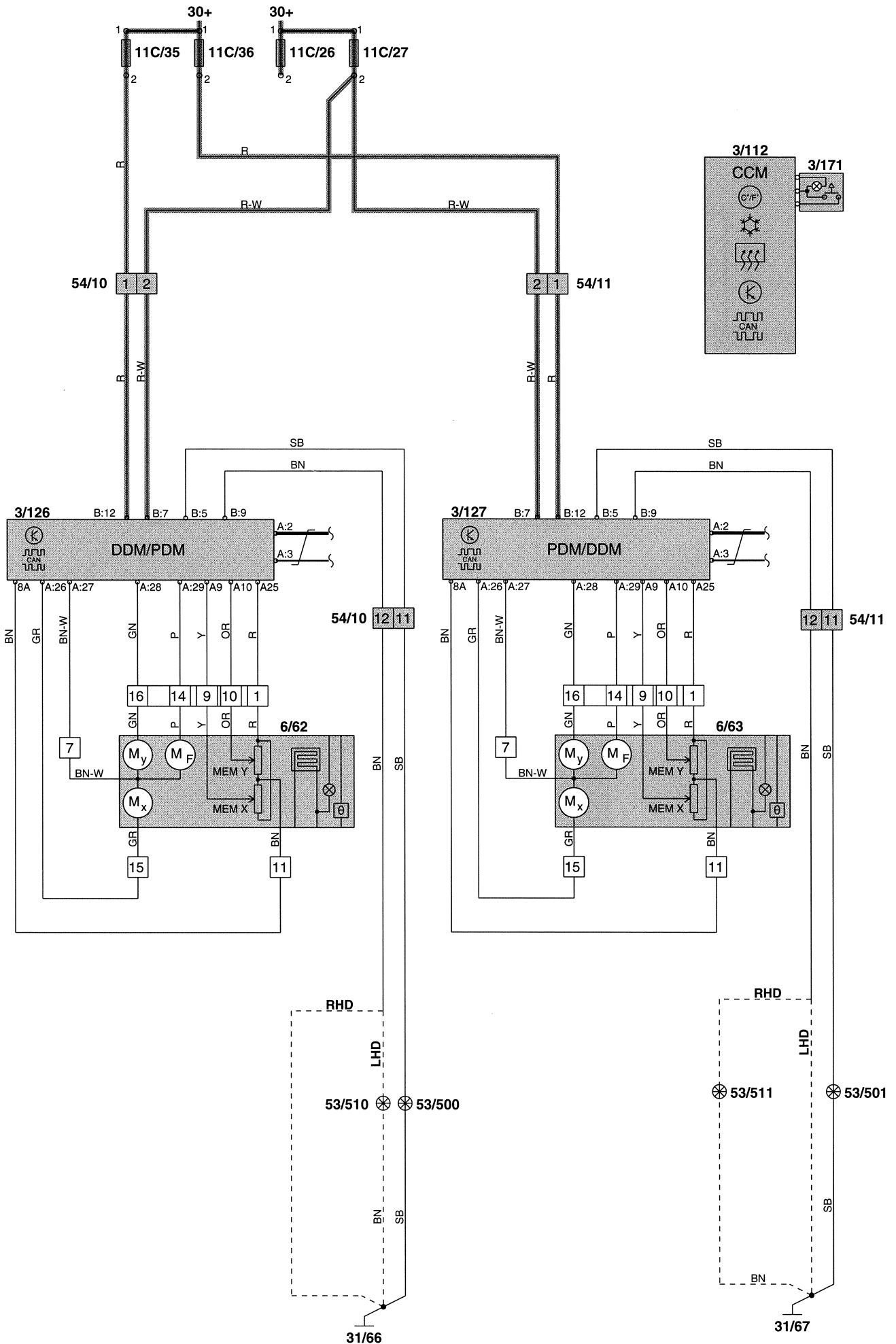


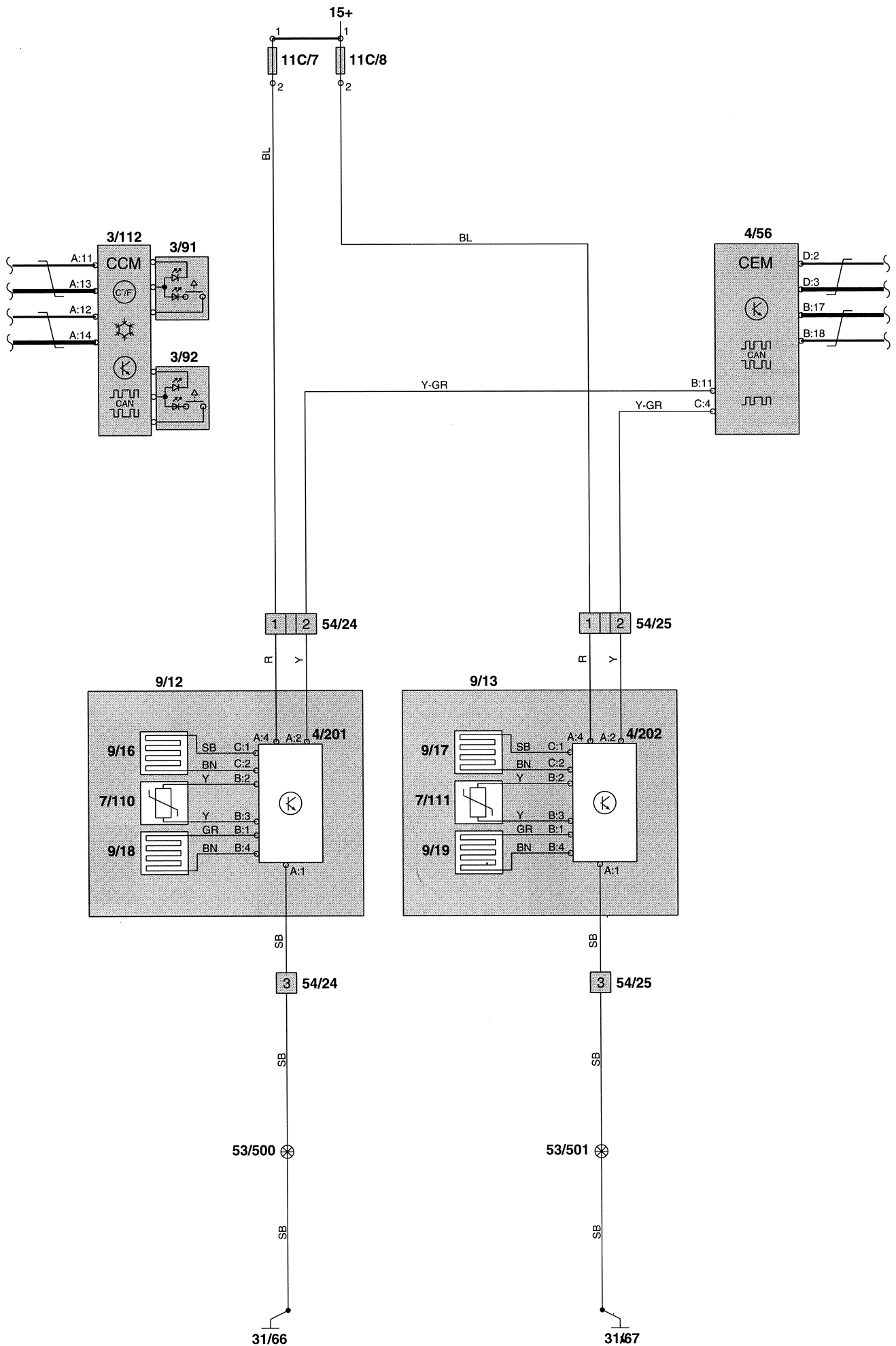


# Heated door mirrors

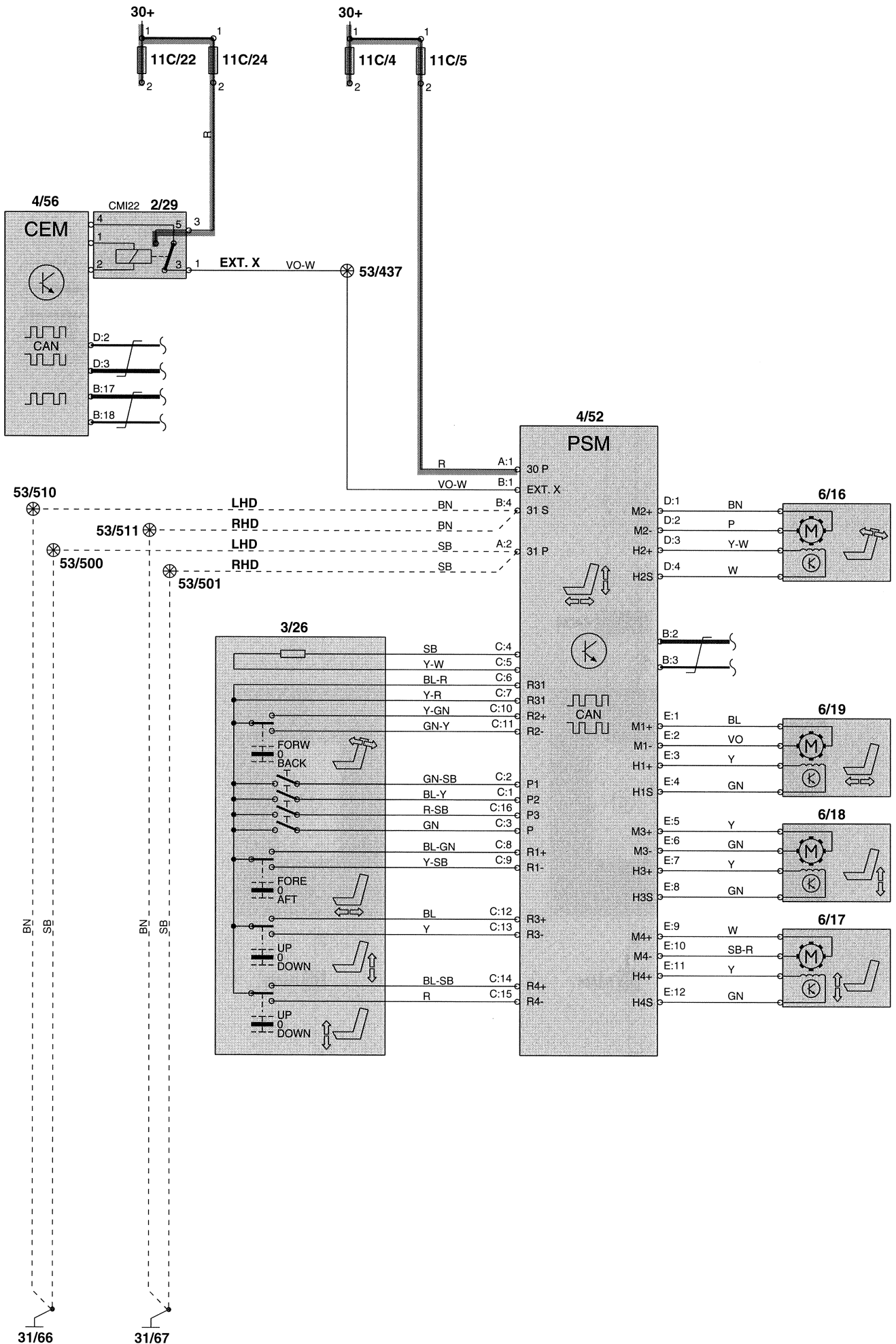


# Power door mirrors

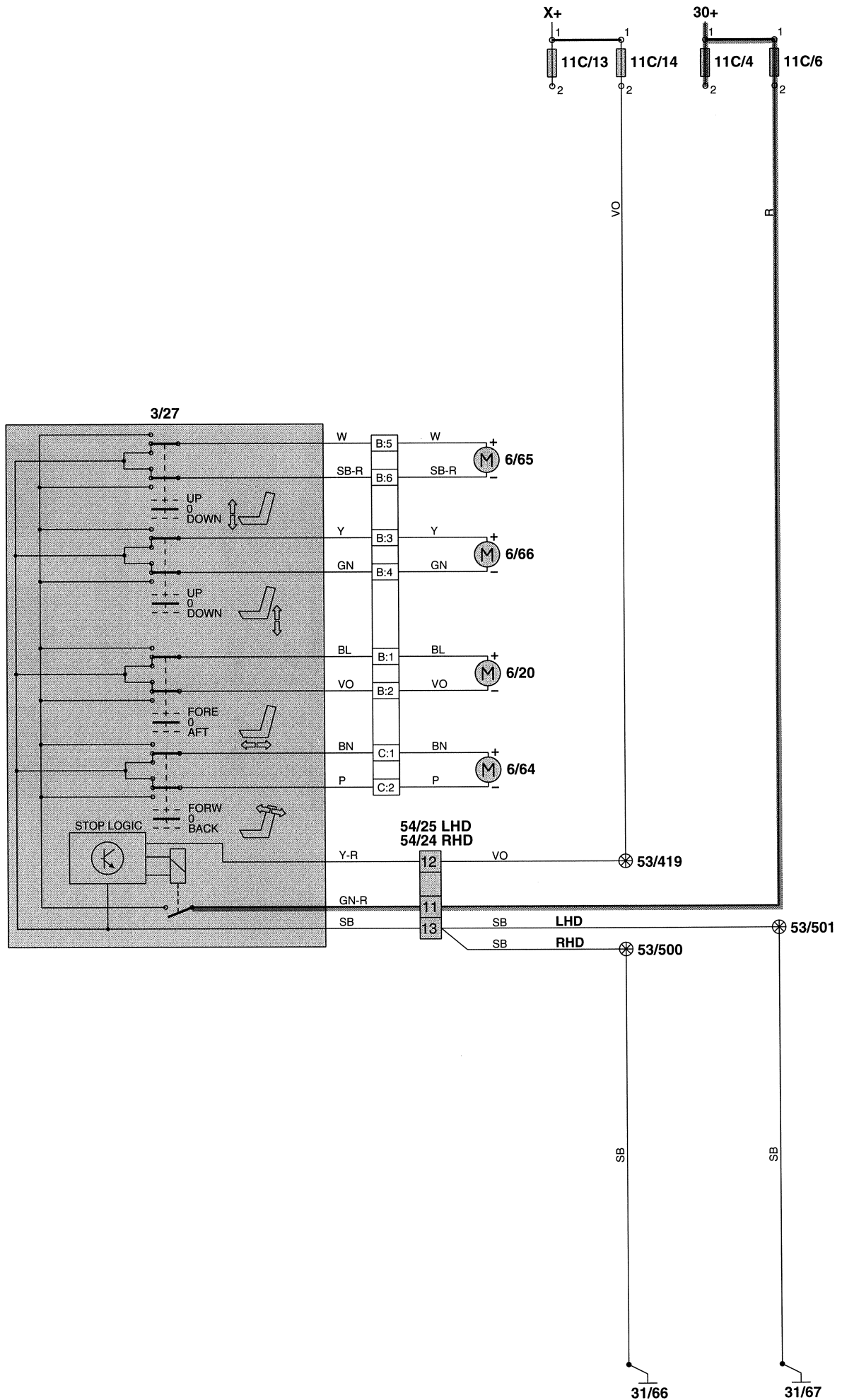




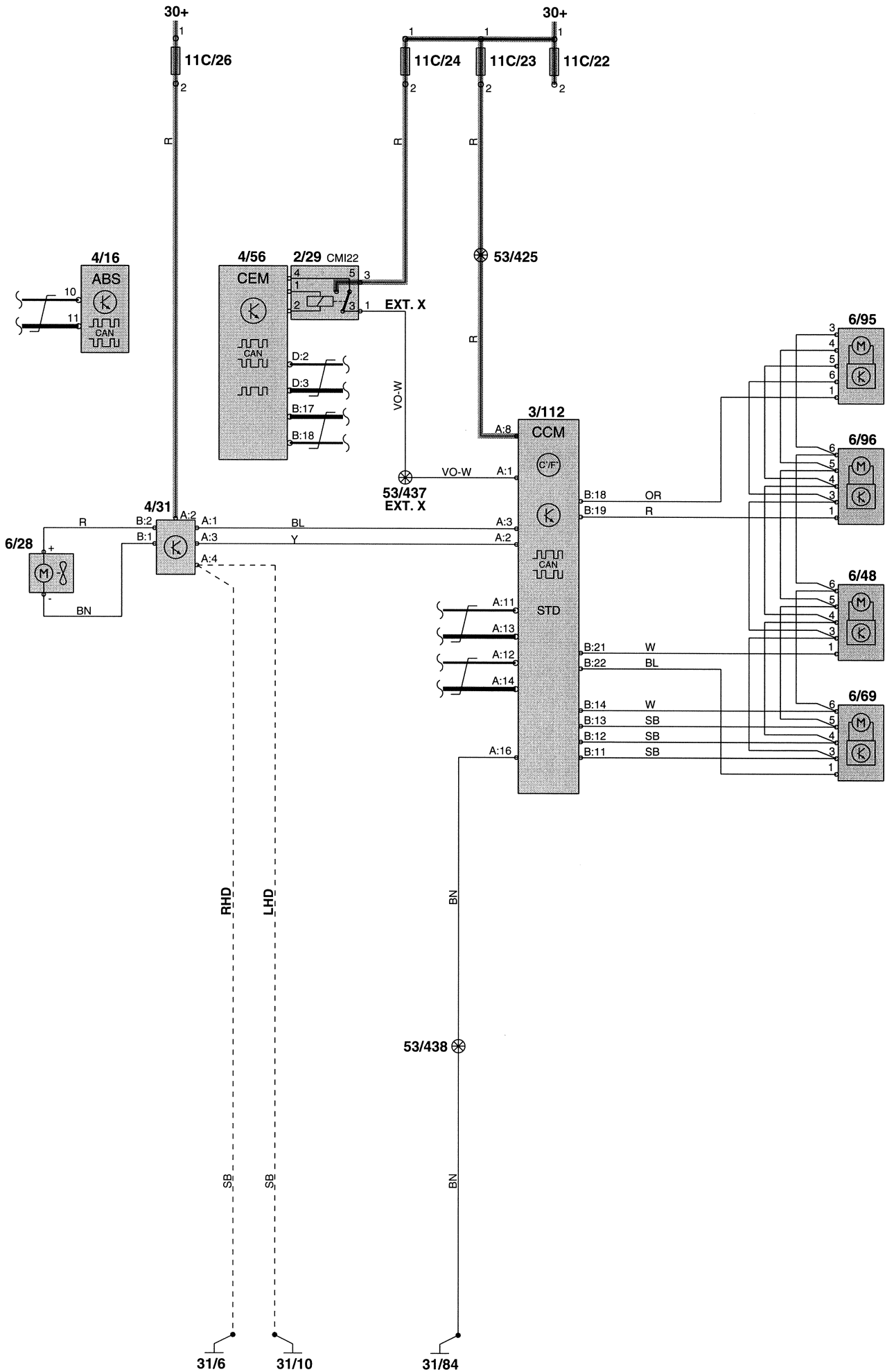
# Power driver's seat



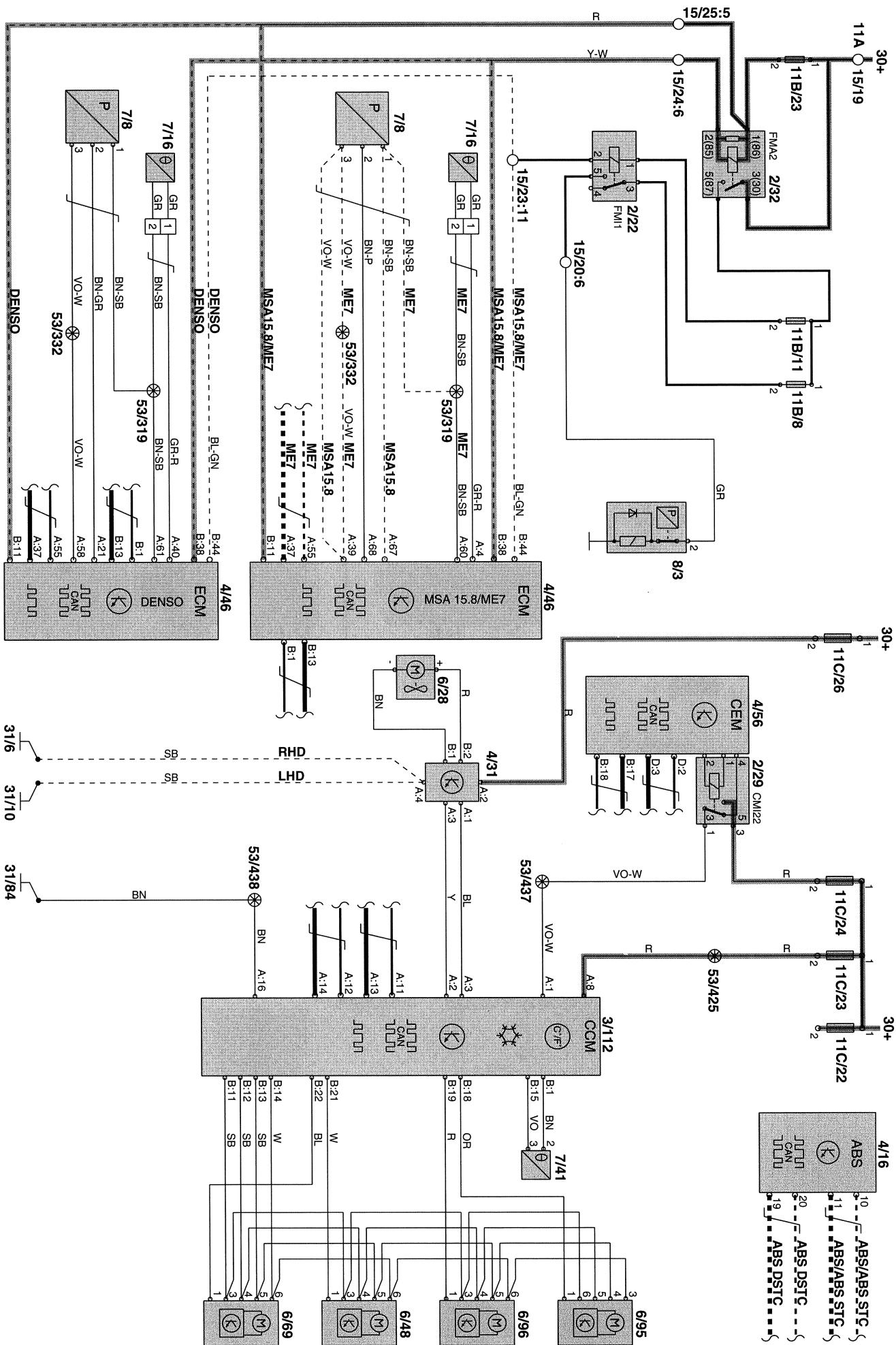
# Power passenger seat



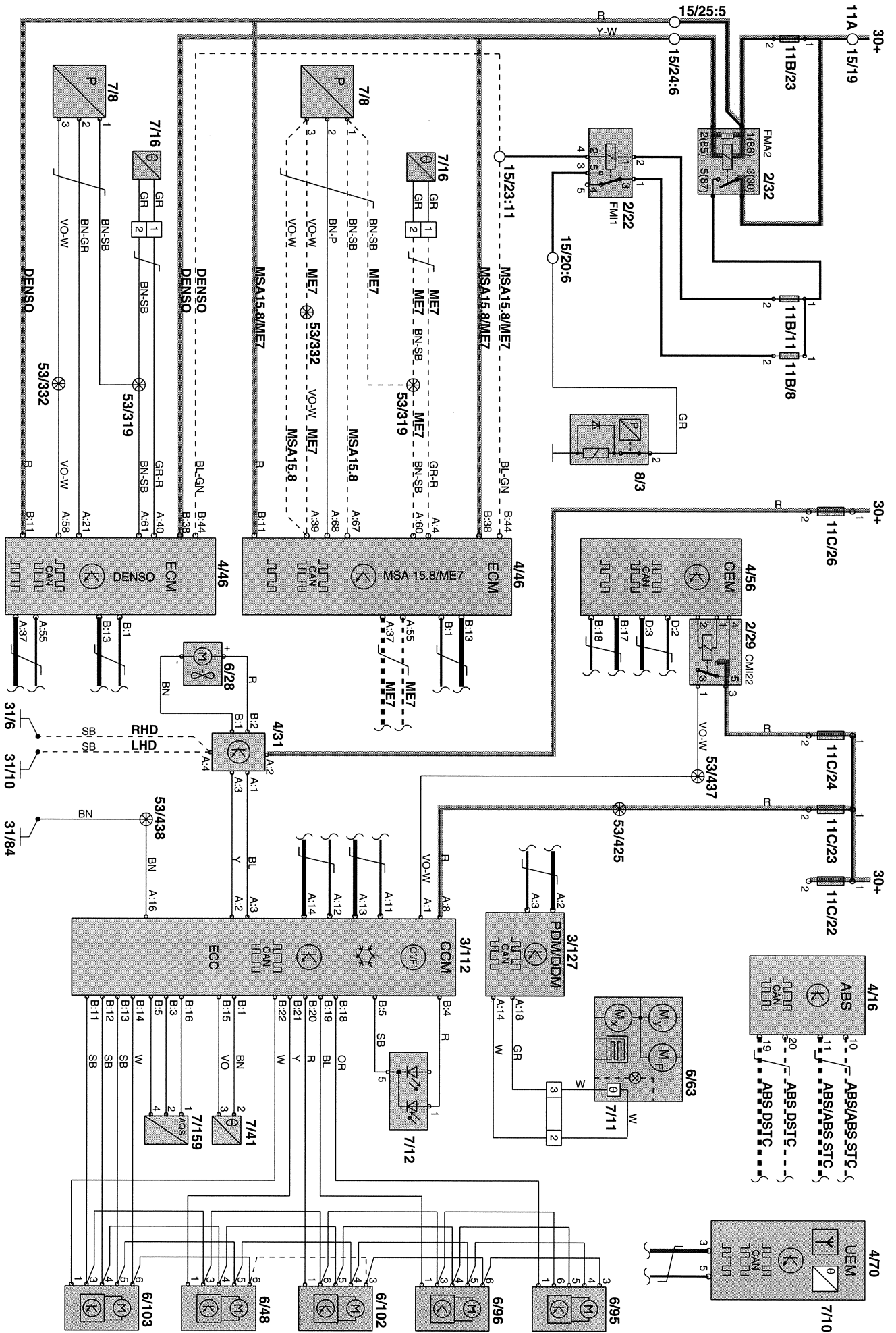
# Standard heater



# Manual Climate Control (MCC)

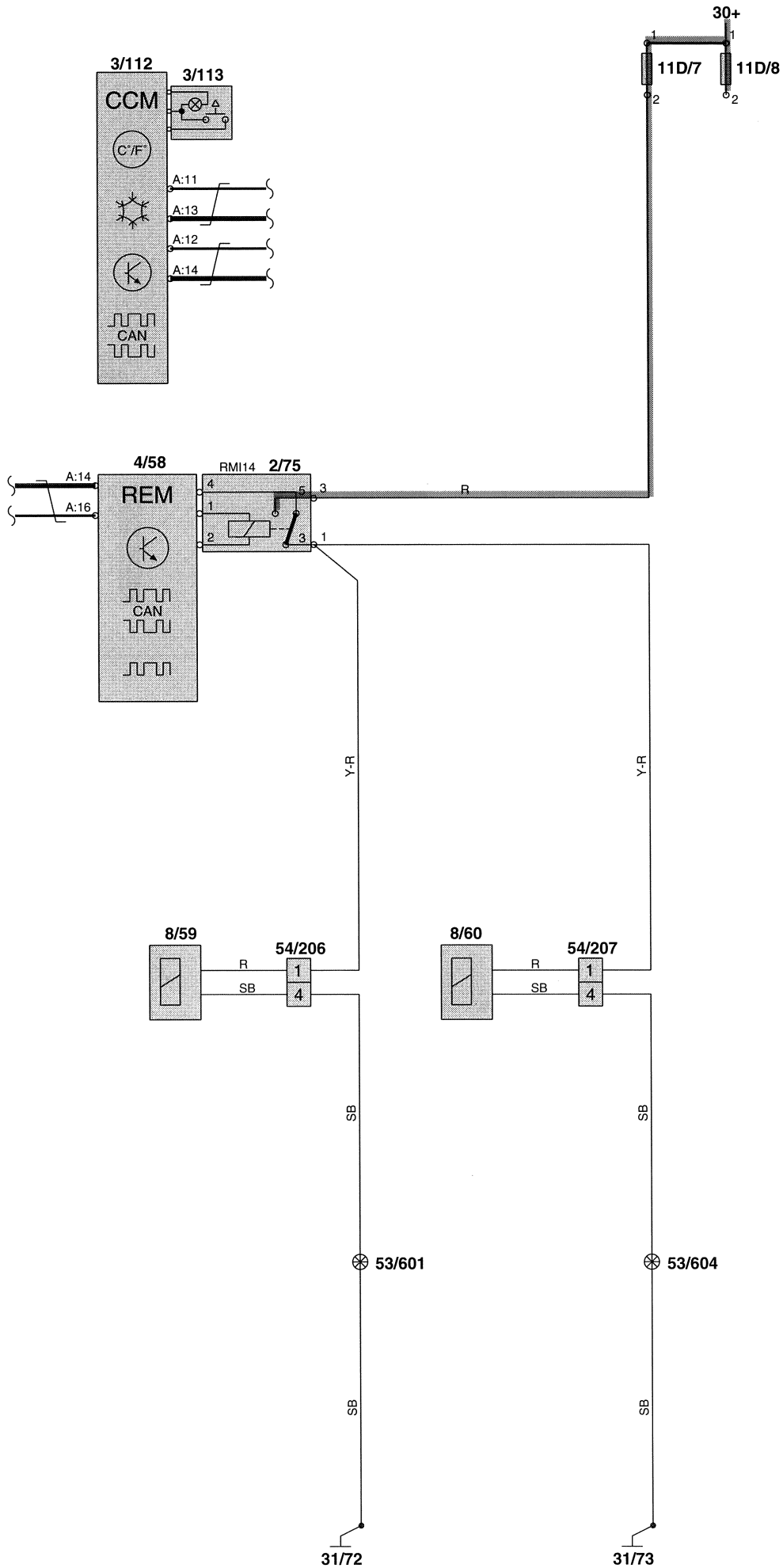


# Electronic Climate Control (ECC)

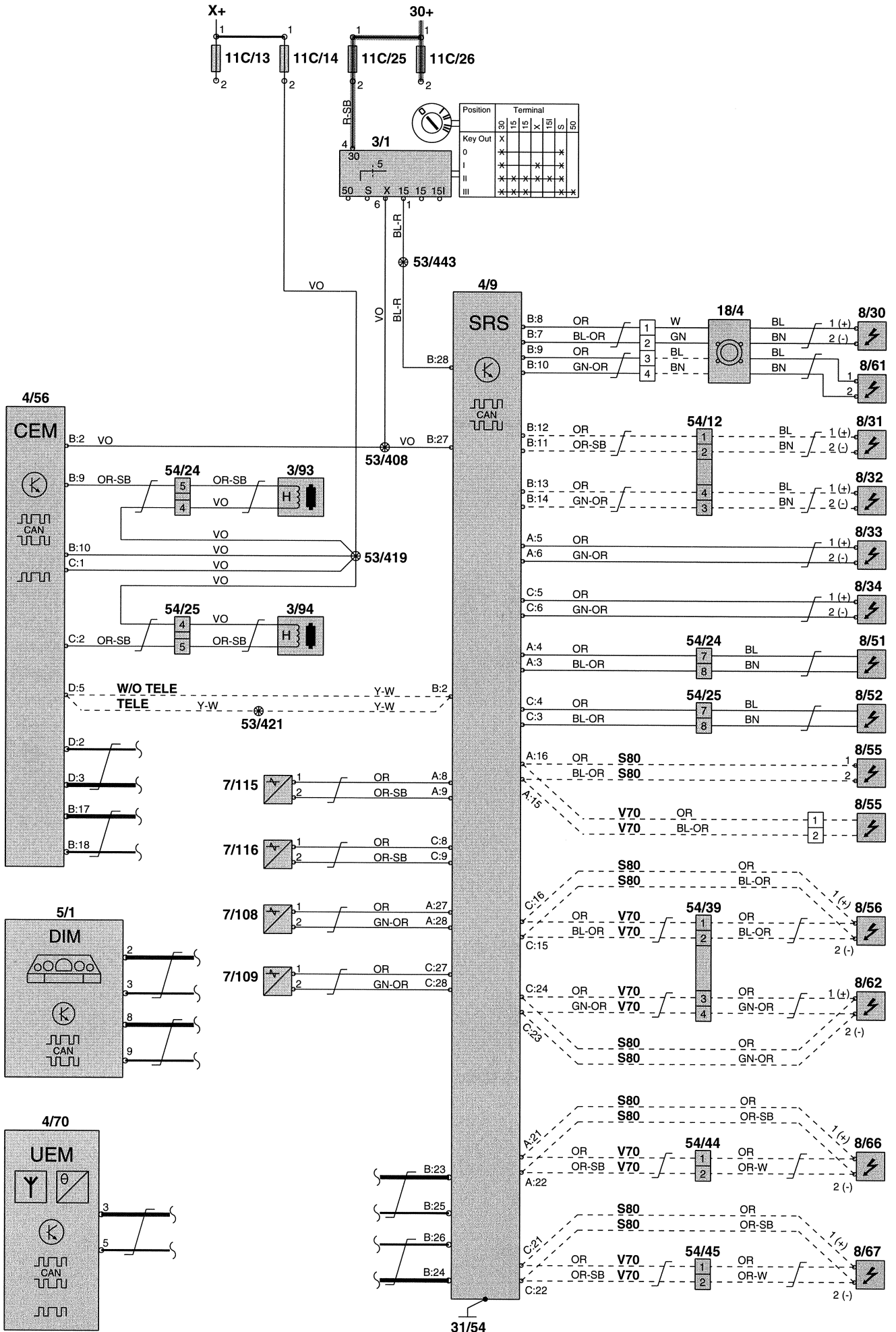




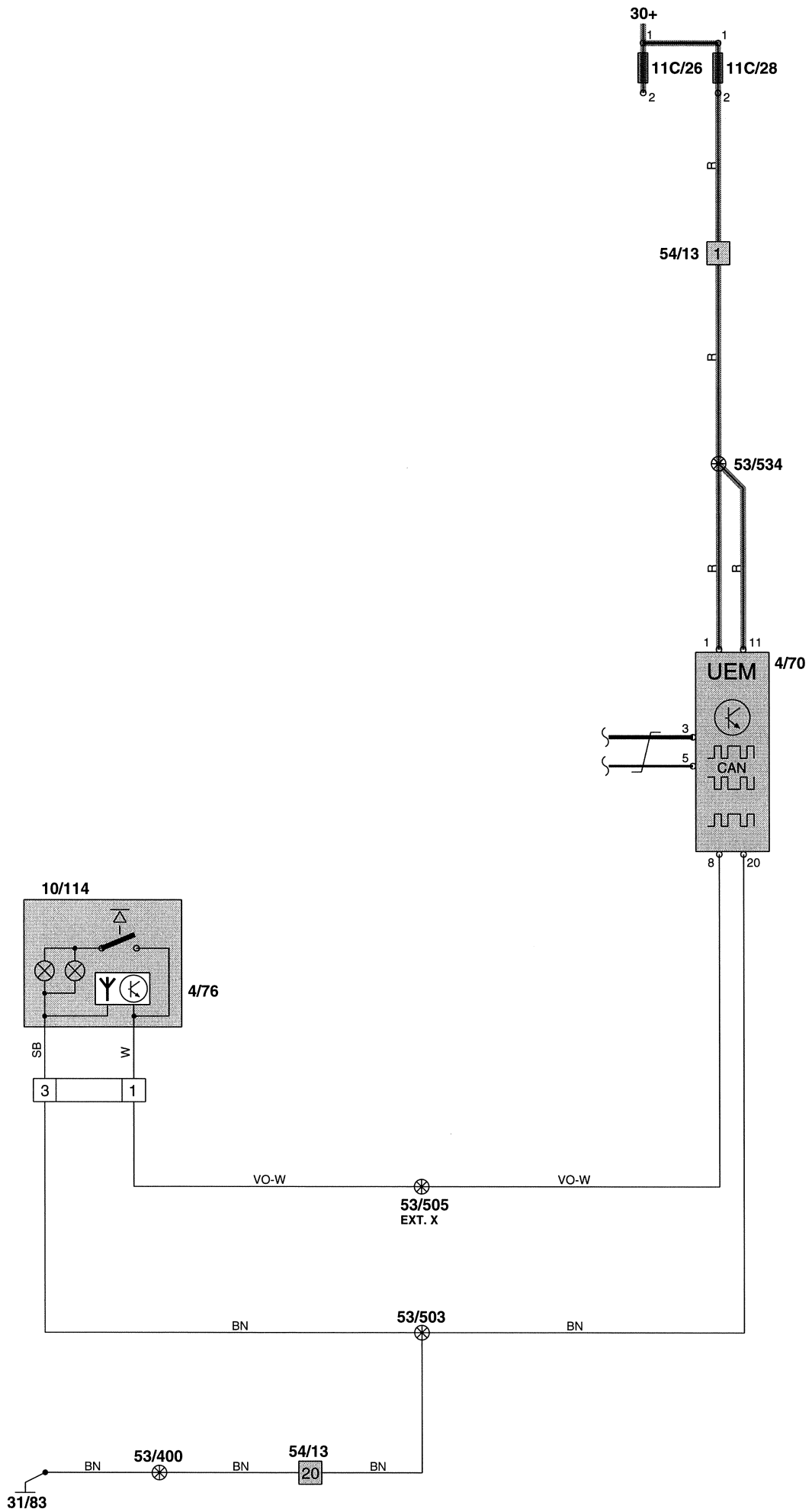
# Power head restraints



# Supplemental Restraint System (SRS)



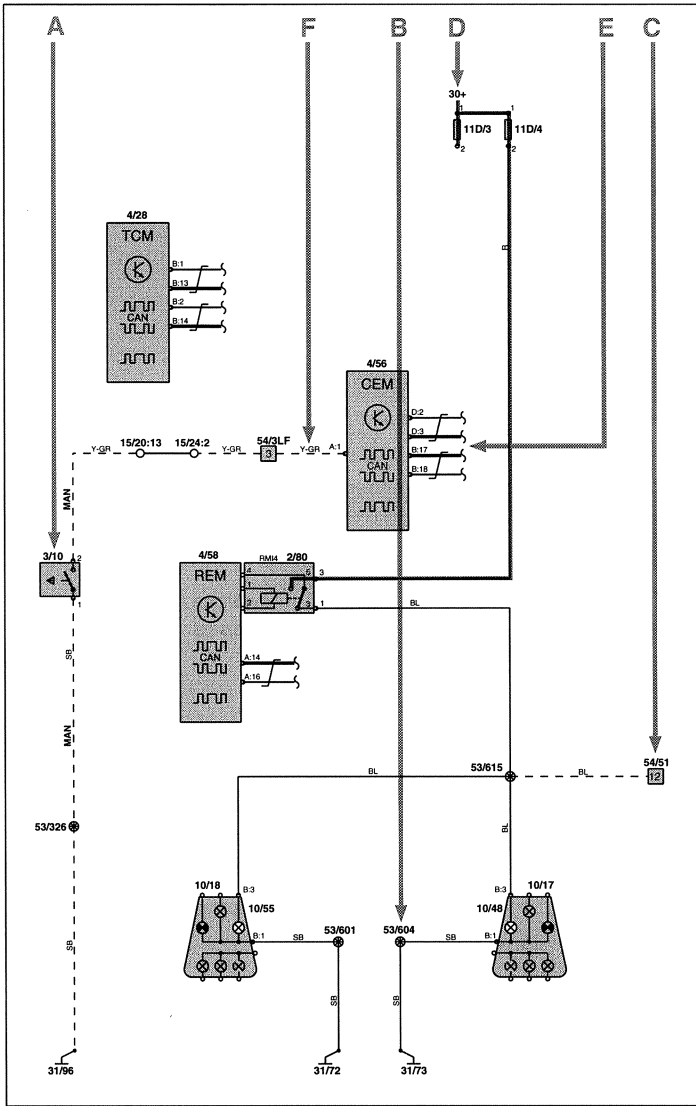
# Remote controlled garage door opener






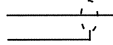

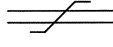


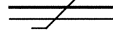
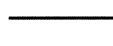
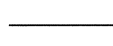
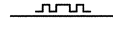
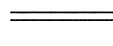


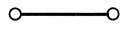
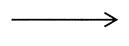


# List of components

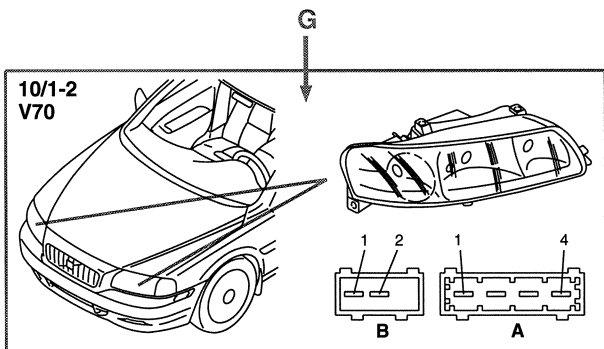
1/1	Battery	3/1	Ignition switch
2/14	Relay, glow plug unit	3/4	Control module, SWS cruise control
2/16	Relay, intermittent rear window wiper on/off	3/6	Hazard warning flasher switch
2/17	Horn relay	3/8	Heated rear window/door mirrors switch
2/22	AC relay	3/9	Brake light contact
2/23	Fuel pump relay	3/10	Reversing light contact
2/29	Relay, extended X feed	3/25	Power sunroof switch
2/30	X feed overload relay	3/26	Power Seat Module (PSM), driver's side
2/31	15-feed overload relay	3/27	Power Seat Module (PSM), passenger side
2/32	Engine control module main relay	3/35	Trunk lid/tailgate handle switch
2/34	Fog light relay, front	3/37	Horn contact
2/35	Starter motor relay	3/47	Parking brake contact
2/49	Fog light relay, rear	3/53	Recirculation switch
2/52	15 feed relay, rear accessory	3/56	Fan switch
2/58	Locking relay, fuel filler flap	3/59	Beam adjustment actuator
2/59	Unlocking relay, fuel filler flap	3/60	Auxiliary light switch
2/61	Parking light relay	3/62	Hood alarm contact
2/62	Low beam relay	3/71	Gear position contacts
2/63	High beam relay	3/74	Lock unit, LH front door
2/64	Auxiliary light relay, accessory	3/75	Lock unit, RH front door
2/67	Relay, trunk lid/tailgate opening	3/76	Lock unit, LH rear door
2/72	Relay, rear window wiper	3/77	Lock unit, RH rear door
2/74	Relay, coolant heater 1	3/78	Lock unit, trunk lid/tailgate
2/75	Relay, adjustable head restraint, rear	3/80	LH central lock switch
2/79	Brake light relay	3/82	RH central lock switch
2/80	Reversing light relay	3/85	Power window switch, LH rear door
2/82	Heated rear window relay	3/86	Power window switch, RH rear door
2/83	Relay, fog light, trailer	3/91	Heated seat switch, LH seat
2/86	Trunk lid/tailgate locking relay	3/92	Heated seat switch, RH seat
2/87	Trunk lid/tailgate unlocking relay	3/93	Seat belt lock switch, LH seat
2/88	15 feed relay, rear accessory	3/94	Seat belt lock switch, RH seat
2/90	Relay, windscreen wiper, low/high speed	3/95	Spin control switch
2/91	Relay, intermittent windscreen wiper	3/111	Light control module
2/92	Relay, windscreen washer motor	3/112	Climate Control Module (CCM)
2/93	Relay, rear window washer motor	3/113	Adjustable head restraint, rear
2/101	Relay, extended X feed, automatic transmission	3/117	Dome light control module
2/109	Relay, coolant heater 2	3/119	Climate control switch, auto
2/111	Locking relay, LH rear	3/121	Climate control switch, defroster
2/112	Unlocking relay, LH rear	3/122	Climate control switch, ventilation
2/113	Locking relay, RH rear	3/123	Climate control switch, floor
2/114	Unlocking relay, RH rear	3/124	Temperature switch, LH side
2/115	Relay, deadlock, rear doors	3/125	Temperature switch, RH side
2/116	Relay, power window up, LH rear	3/126	Control module, LH front door DDM/PDM
2/117	Relay, power window up, RH rear	3/127	Control module, RH front door PDM/DDM
2/118	Relay, power window down, LH rear	3/130	Steering Wheel Module (SWM)
2/119	Relay, power window down, LH rear	3/131	Switch, audio/mobile phone
2/120	Relay, power window childlock, rear door	3/135	RTI switch
2/136	Relay, pager alarm	3/153	Switch, Power Childlock (PCL)
2/137	Relay, pager alarm	3/155	Program selector, automatic transmission
2/138	Door blocking relay, LH rear	3/156	Gear Shift Module (GSM), automatic transmission
2/139	Door blocking relay, RH rear	3/171	Switch, retractable door mirrors
2/142	Fuel preheater relay	3/173	Switch, trunk lid/tailgate private lock
		3/174	Switch, reduced alarm
		3/183	Switch, max defroster

# How to use the wiring diagram

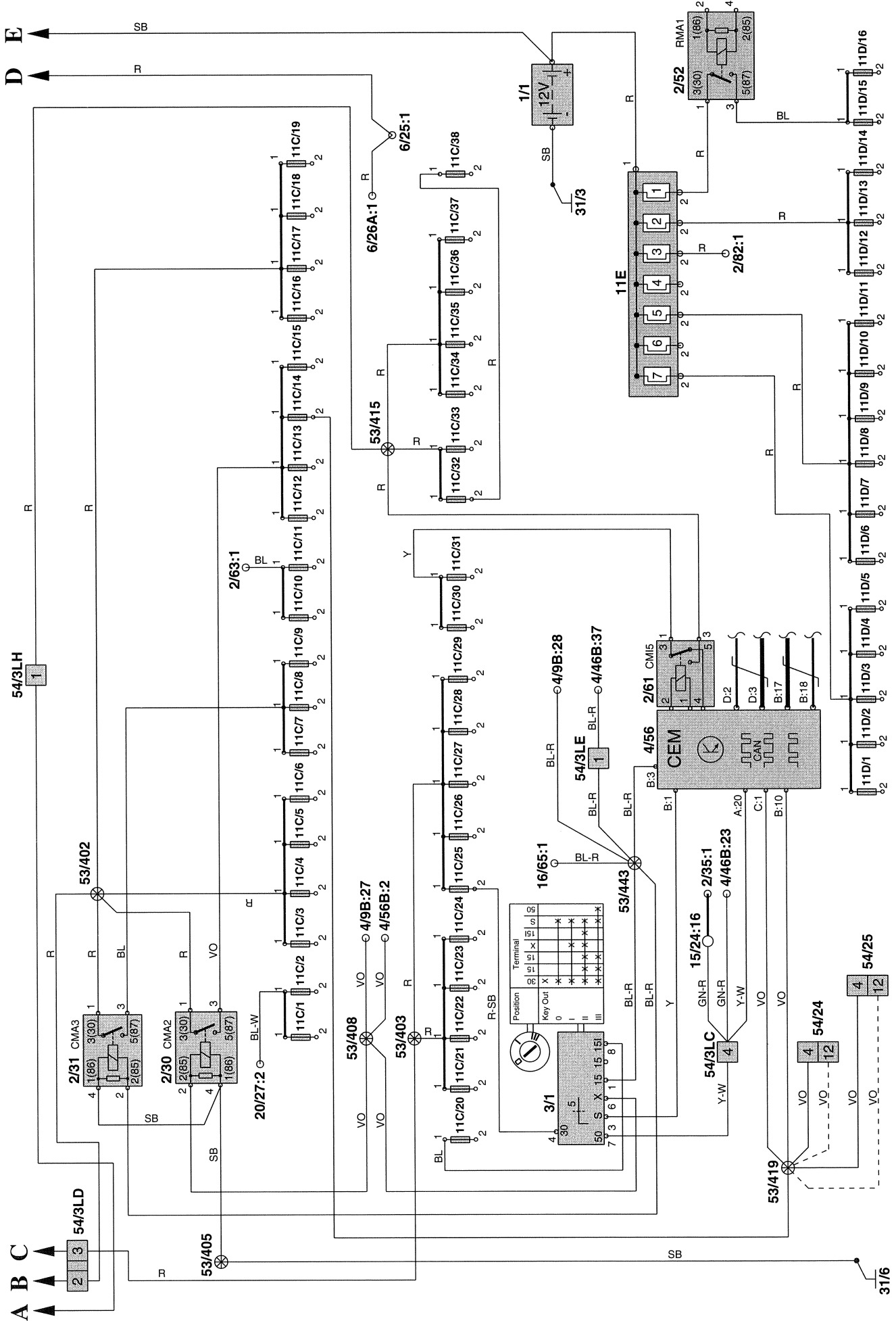


## List of symbols

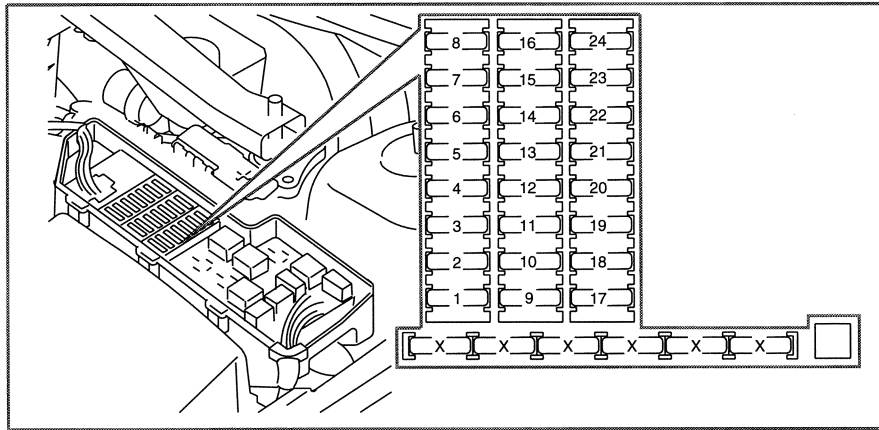
-  = System voltage
-  = Ground connection via wiring
-  = Ground connection on component/chassis
-  = Screened wire
-  = Junction point
-  = Twisted cable
-  = Electrical connection
-  = Variant
-  = CAN communication
-  = CAN high signal (CAN H)
-  = CAN low signal (CAN L)
-  = Serial communication
-  = DIN cable, coaxial cable, etc.
-  = Data communication
-  = CAN communication
-  = Connection with fuse box
-  = Further connection to...
-  = Connector between wiring harnesses
-  = Connector connected to component



# Electrical distribution Overview



# Electrical distribution Fuses in engine compartment

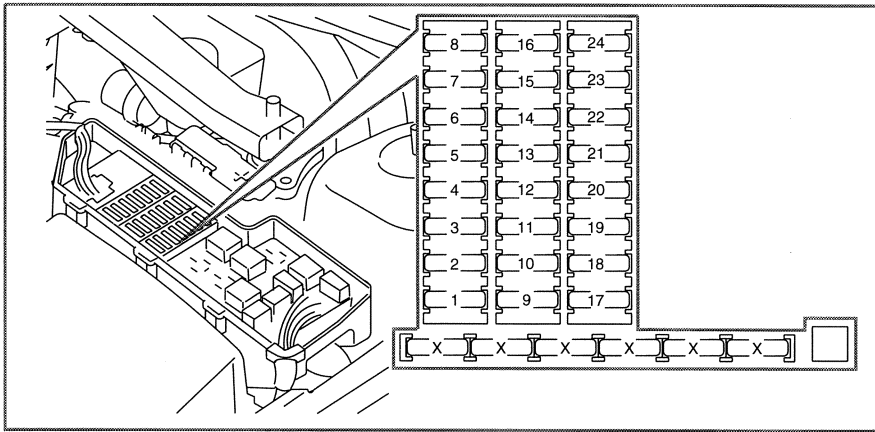


## 11B Fuses in engine compartment

No.	Fuse function	AA
1	Combustion Preheater Module (CPM) 4/7	25
2	Accessory (auxiliary light)	15
4	Heated oxygen sensors 7/15, 7/82, 7/103, 7/104	20
5	Fuel -EVAP valve 8/18 -camshaft reset valve 8/19 -canister valve 8/44 -PTC resistor, air preheating 9/32 -turbo control valve 8/28	15
6	Engine Control Module (ECM) 4/46A -injection valves 8/6-11 Gas -mass airflow (MAF) sensor 7/17 Gas -injection pump 6/31 Diesel -mass airflow (MAF) sensor 7/17 Diesel	15
7	Electronic Throttle Module (ETM) 4/50	10
8	AC relay 2/22 Accelerator pedal sensor 7/51	10
9	Horn relay 2/17	15
10	Relay, rear window washer motor 2/93	10
11	Relay, glow plug unit 2/14 Relay, coolant heater 2 2/109 Relay, coolant heater 1 2/74 Spark plug with ignition coil 20/3-8 EGR valve 8/17 Turbo control valve 8/28 Engine pad solenoid 8/64 PTC resistor, air preheating 9/32 AC relay 2/22	20

# Electrical distribution

## Fuses in engine compartment



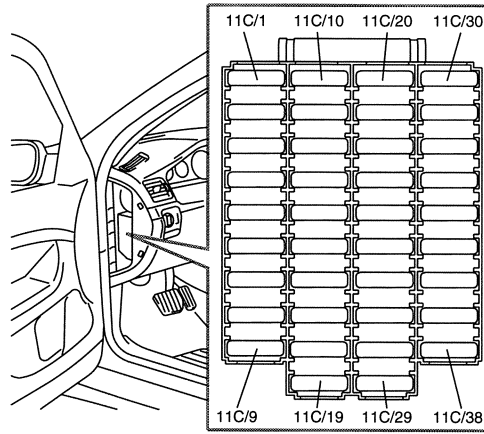
### 11B Fuses in engine compartment

No.	Fuse function	A
12	Brake light contact 3/9	5
13	Relay, windshield wiper, low/high speed 2/90 Relay, intermittent windshield wiper 2/91	25
14	ABS control module 4/16	30
15	-	-
16	Relay, windshield washer motor 2/92	15
19	ABS control module 4/16	30
17-19	-	-
20	Relay, coolant heater 2 2/109	30
21	Relay, coolant heater 1 2/74	30
22	Starter motor relay 2/35	25
23	Engine control module main relay 2/32 Engine Control Module (ECM) 4/46	5



# Electrical distribution

## Fuses in passenger compartment

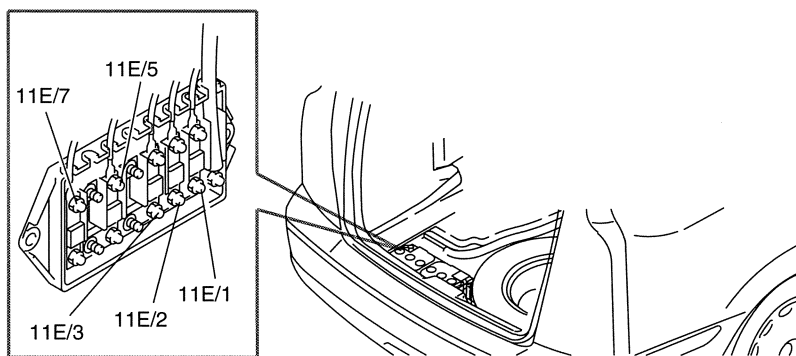


### 11C Fuses in passenger compartment

No.	Fuse function	A
23	Data link connector 17/13 Light Switch Module (LSM) 3/111 Climate Control Module (CCM) 3/112 Steering Wheel Module (SWM) 3/130	5
24	Relay, extended X feed 2/29	10
25	Ignition switch 3/1	10
26	Fan control module 4/31	30
27	Control module, LH front door DDM/PDM 3/126 Control module, RH front door PDM/DDM 3/127	15
28	Upper Electronic Module (UEM) 4/70	10
29	Mobile phone 16/60	10
30	Side marker light, LH front 10/71 Parking light, LH front 10/11 Shunt, parking light REM 20/28	10
31	Side marker light, RH front 10/73 Parking light, RH front 10/12 Shunt, parking light/tail light REM 20/33 License plate lighting 10/3	10
32	Central Electronic Module (CEM) 4/56	10
33	Fuel pump relay 2/23	15
34	Sunroof control module (SRM) 4/33	15
35	Control module, LH front door DDM/PDM 3/126	25
36	Control module, RH front door PDM/DDM 3/127	25
37	Relay, power window up, LH rear 2/116 Relay, power window up, RH rear 2/117 Relay, power window down, LH rear 2/118 Relay, power window down, RH rear 2/119 Relay, power window childlock, rear door 2/120	30
38	Alarm siren SCM 16/35	5

## Electrical distribution

### Fuses in cargo area/compartament



### 11E Fuses by battery

No.	Fuse function	A
1	Relay, 15 feed, rear accessories 2/52	40
2	Fuses for 11D/12-14	40
3	Relay, heated rear window 2/82	40
4	-	-
5	Fuses for 11D/6-11	40
6	-	-
7	Fuse protection for 11D/1-5	40

# Electrical distribution

## Ground connections

<b>31/67</b>
Junction point 53/511 -Power Seat Module (PSM), driver's side 4/52B:4 RHD -connector 54/11:12 RHD
Connector 54/11:12 LHD
Junction point 53/501 -RH seat heater 9/13:5 -Power Seat Module (PSM), driver's side 4/52A:2 RHD -connector 54/11:11 -connector 54/21:12 -connector 54/25:13

<b>31/70</b>
Junction point 53/345 -auxiliary light, RH front 10/65:2 -auxiliary light, LH front 10/69:2

<b>31/72</b>
Junction point 53/601 -lighting, cargo compartment, LH side 10/127:4 S80 -solenoid, LH rear head restraint 8/59:4 S80 -Rear Electronic Module (REM) 4/58E:1 -lamp housing, LH tail light 10/18A:4 and 10/18B:1 S80 -lamp housing, LH tail light 10/18A:6 and 10/18B:4 V70 -connector 54/50:6 -connector 54/50:7 -connector 54/50:10
Junction point 53/602 RTI -vehicle inclination sensor ISM 7/100:5 -pager alarm 4/79:4 ISR -RTI control module 16/45A:11 -CD-ROM player RTI 16/48:1 -CD changer 16/15:1 S80 -pager alarm relay 2/136:1 ISR -pager alarm relay 2/137:1 ISR
Vehicle inclination sensor ISM 7/100:5 without RTI

<b>31/73</b>
Junction point 53/604 -solenoid, RH rear head restraint 8/60:4 S80 -lamp housing, RH tail light 10/17A:4 and 10/17B:1 S80 -lamp housing, RH tail light 10/17A:6 and 10/17B:4 S70 -lighting, cargo compartment, RH 10/128:4 S80 -12V outlet, cargo area 17/19:2 V70
Connector 54/51:7
12V outlet cargo compartment 17/19:2 S80

<b>31/83</b>
Junction point 53/400 -combined instrument panel DIM 5/1:14 -antenna ring/ignition switch lighting 16/65:7 -connector 54/13:20

<b>31/84</b>
Junction point 53/438 -light control module 3/111:5 -Steering Wheel Module (SWM) 3/130:16 and 3/130:22 -Climate Control Module (CCM) 3/112A:16 -control module, steering wheel angle sensor 4/68:16 -data link connectors 17/13:4 and 17/13:5 -mobile phone PHM 16/60:18
Radio 16/1A:12 without amplifier
Junction point 53/448 -radio 16/1A:12 amplifier -amplifier 16/2A:2 -junction point 53/423 -RTI Display 16/46:15 -RTI Display 16/46:16

<b>31/88</b>
Spark plug with ignition coil 1 20/3:3 5 cyl
Spark plug with ignition coil 2 20/4:3 5 cyl

<b>31/89</b>
Spark plug with ignition coil 3 20/5:3 5 cyl
Spark plug with ignition coil 4 20/6:3 5 cyl
Spark plug with ignition coil 5 20/7:3 5 cyl
Junction point 53/323 -spark plug with ignition coil 4 20/6:3 6 cyl -spark plug with ignition coil 5 20/7:3 6 cyl -spark plug with ignition coil 6 20/8:3 6 cyl

## Electrical distribution Ground connections

<b>31/91</b>
Electronic Throttle Module (ETM) 4/50:5 Gas
PTC resistor, air preheating 9/32:2 Gas, Turbo

<b>31/93</b>
Junction point 53/329 -brake light contact 3/9:4 AWD -accelerator pedal sensor 7/51:3 -brake fluid level monitor 7/4:2 -stepper motor, speed-dependent power steering 6/71:6 Diesel RHD -stepper motor, speed-dependent power steering 6/71:6 LHD -capacitor 20/16B:1 V70 -reversing light contact 3/10:2
Junction point 53/331 -windshield wiper motor 6/1:4 -connections 15/25:1 -lamp housing, LH front 10/1A:1 -LH headlight wiper motor 6/4:3 -connector 54/4:4 -connector 54/9:3 -connector 54/58:4 -LH headlight wiper motor 6/4:3 -automatic transmission solenoid 8/37B:4 -automatic transmission solenoids 8/37B:2
Junction point 53/301 -fog light, LH front 10/5:2 -lamp housing, LH front direction indicator 10/9:3 -lamp housing, LH front 10/1:1 -lamp housing, LH front 10/1B:3 -lamp housing, LH front 10/1A:1 -LH beam adjustment actuator 6/38:1 -direction indicator, LH front fender 10/15:1 EU/OS -side marker light, LH front 10/71:2 S80 -LH beam adjustment actuator 6/38:1

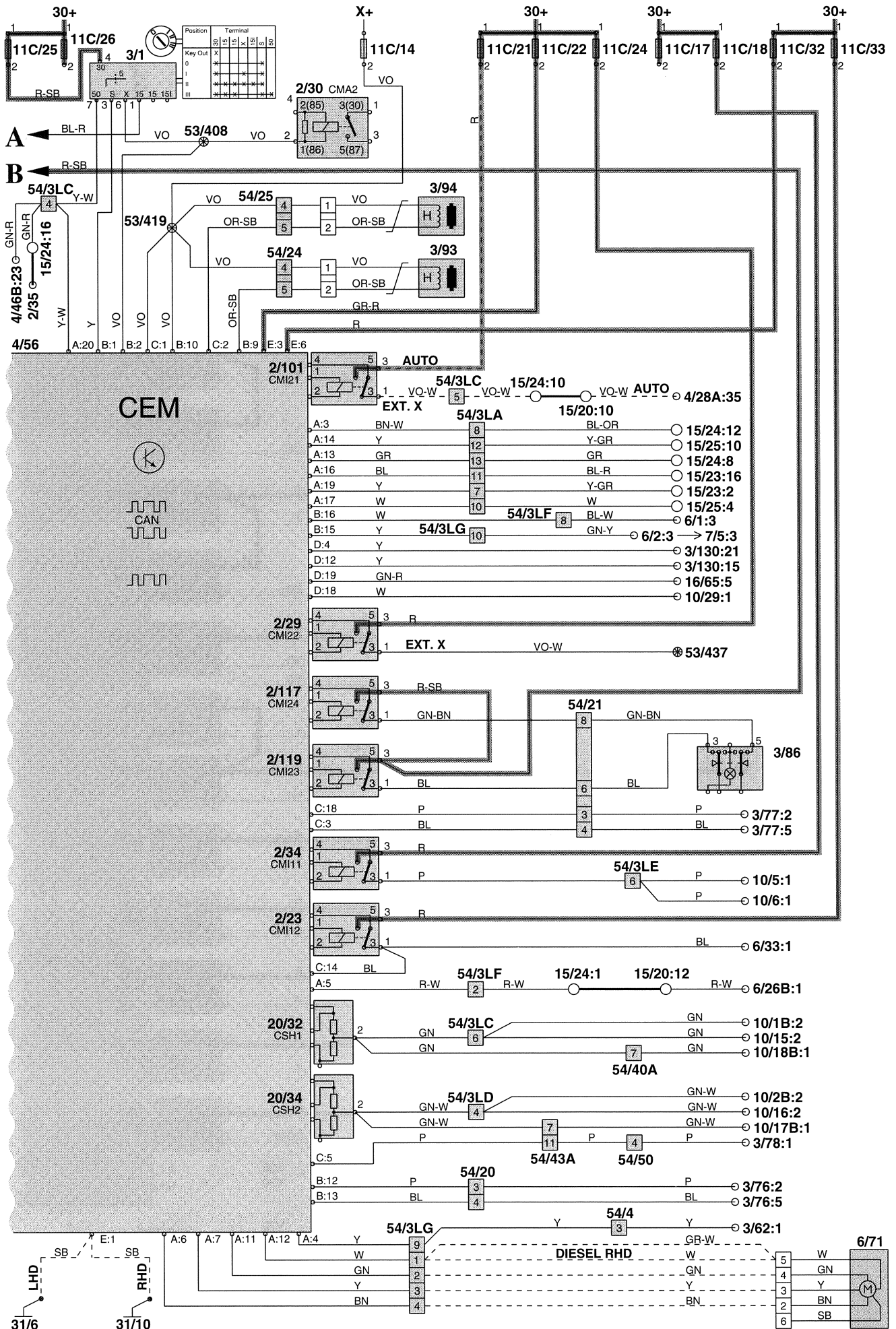
<b>31/94</b>
Transmission Control Module (TCM) 4/28:53
Junction point 53/303 -alarm siren SCM 16/35:3 -RH beam adjustment actuator 6/39:1 -RH headlight wiper motor 6/3:3 -RH front lamp housing 10/2A:1 -RH front lamp housing 10/2B:3 -RH front fog light 10/6:2 -RH front side marker light 10/73:2 S80

<b>31/95</b>
ABS control module 4/16:8
ABS control module 4/16:24
ABS control module DSTC 4/16:15
ABS control module DSTC 4/16:46

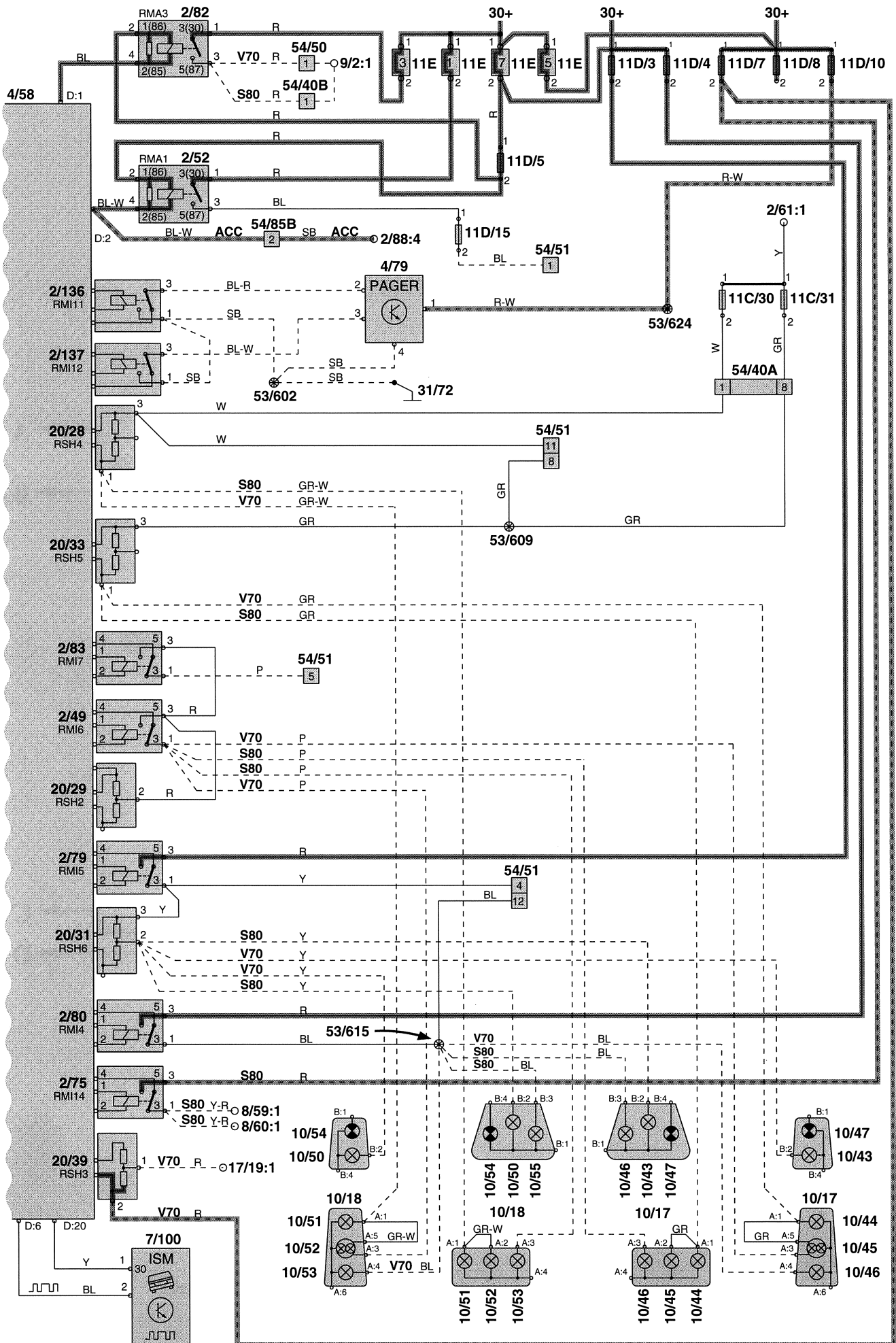
<b>31/96</b>
Junction point 53/326 -PTC-resistor, air preheating 9/32:2 Diesel -Engine Control Module (ECM) 4/46A:36 -Engine Control Module (ECM) 4/46A:53 -Engine Control Module (ECM) 4/46A:54 -Engine Control Module (ECM) 4/46A:62 -Engine Control Module (ECM) 4/46A:63
5 cyl gas without turbo -Engine Control Module (ECM) 4/46A:63 5 cyl Turbo/6 cyl -Transmission Control Module (TCM) 4/28:53 -automatic transmission solenoids 8/37A:7 5 cyl -reversing light contact 3/10:1 manual transmission

<b>31/98</b>
Sunroof control module (SRM) 4/33:10
Junction point 53/503 -RH vanity mirror lighting 10/115:3 S80 -LH vanity mirror lighting 10/114:3 -dome light, cargo area 10/25:4 V70 -reading lamp, rear 10/150:4 -Microwave Motion Sensor (MMS) alarm 7/122:5 -Upper Electronic Module (UEM) 4/70:20 -dome light control module 3/117:10A -dome light control module SRM 4/33:5 S80 -auxiliary brake light 10/19:5 S80 -connector 54/13:20

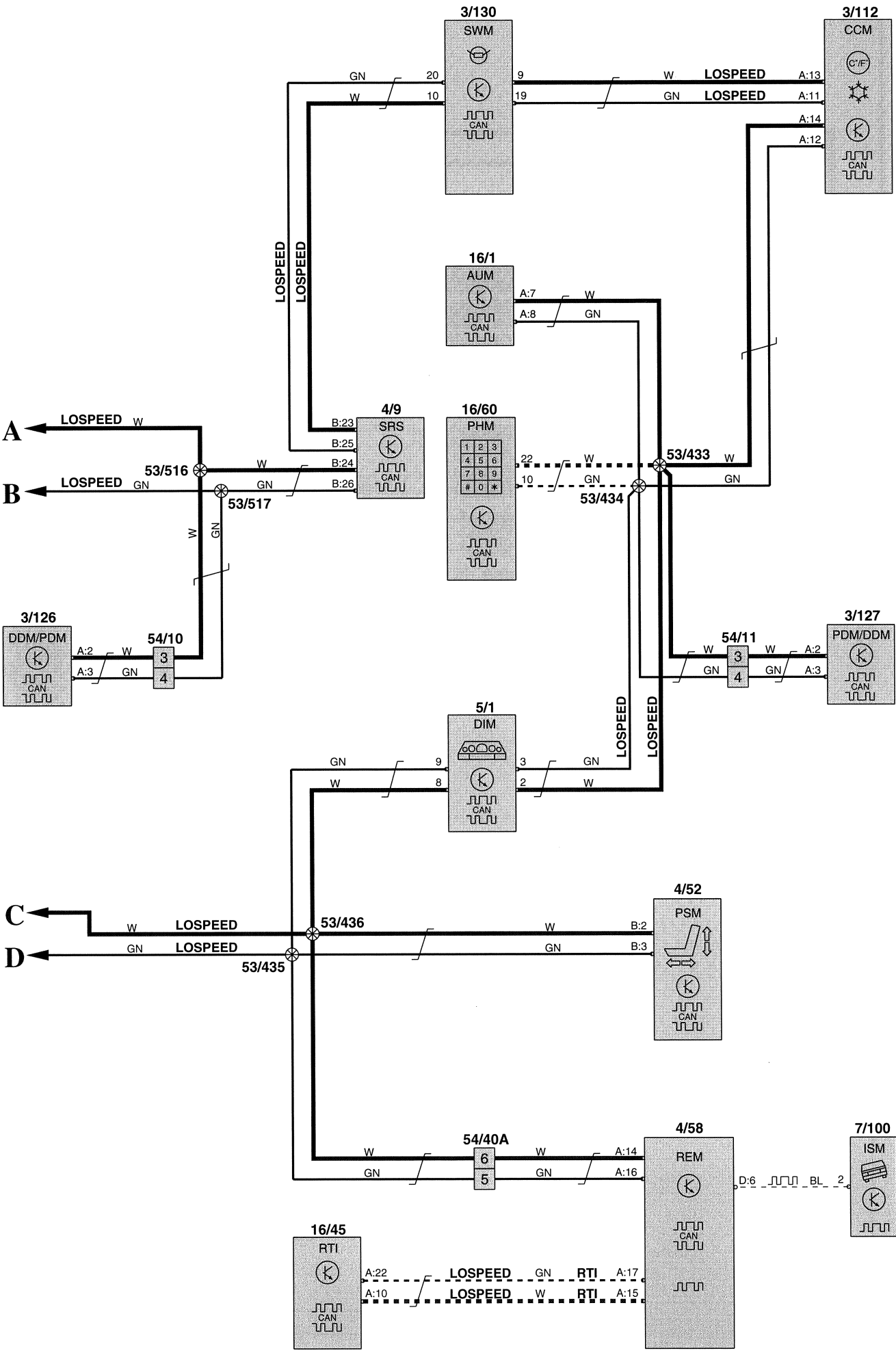
# Electrical distribution Central Electronic Module (CEM)



# Electrical distribution Rear Electronic Module (REM)



# Electrical distribution Data communication



**54/3LB 13 pin white****Passenger compartment harness - Engine compartment harness**

No.	Passenger compartment harness		Engine compartment harness	
1	Tank pressure sensor 7/84:1	BN	Junction point 53/324	BN
2	CEM 4/56B:14	BL	Engine Control Module (ECM) 4/46:45	R-SB
3	Lateral accelerometer 7/128:3	GR	ABS control module 4/16:25	GR
4	Lateral accelerometer 7/128:2	BN	ABS control module 4/16:9	BN
5	Lateral accelerometer 7/128:1	P-W	ABS control module 4/16:40	P-W
6	Yaw angle speed sensor 1 7/127:3	GR-SB	ABS control module 4/16:27	GR-SB
7	Yaw angle speed sensor 1 7/127:2	BN-SB	ABS control module 4/16:11	BN-SB
8	Yaw angle speed sensor 1 7/127:1	W-SB	ABS control module 4/16:42	W-SB
9	ABS sensor, RH rear 7/57:1	BN-W	ABS control module 4/16:22 DSTC control module 4/16:6	BN-W
10	ABS sensor, RH rear 7/57:2	Y-W	ABS control module 4/16:23 DSTC control module 4/16:7	Y-W
11	ABS sensor, LH rear 7/56:1	BN-OR	ABS control module 4/16:6 DSTC control module 4/16:36	BN-OR
12	ABS sensor, LH rear 7/56:2	Y-VO	ABS control module 4/16:5 DSTC control module 4/16:37	Y-VO
13	Fuse protection for 11C/9:2	BL	ABS control module 4/16:4 DSTC control module 4/16:44	BL

**54/3LC 6 pin white****Passenger compartment harness - Engine compartment harness**

No.	Passenger compartment harness		Engine compartment harness	
1	Canister valve 8/44:1	GN-GR	Fuse 11B/5:2	GN-GR
2	LH power door mirror 6/62:3	BN	Junction point 53/324	BN
3	LH power door mirror 6/62:2	W	Engine Control Module (ECM) 4/46B:29	OR-W
4	CEM 4/56A:20 Ignition switch 3/1:7	Y-W	Starter motor relay 2/35:1 Engine Control Module (ECM) 4/46B:23	GN-R
5	Relay, extended X feed 2/101:1	VO-W	Transmission Control Module (TCM) 4/28A:35	VO-W
6	Shunt, LH direction indicator CEM 20/32:2	GN	Direction indicator, LH front fender 10/15:2 Lamp housing, LH front 10/1B:2	GN

**54/3LD 4 pin white****Passenger compartment harness - Engine compartment harness**

No.	Passenger compartment harness		Engine compartment harness	
2	Junction point 53/402	R	Distribution rail relay/fuse box 15/21	R-W
3	Junction point 53/403	R	Distribution rail relay/fuse box 15/28	R
4	Shunt, RH direction indicator sensor CEM 20/34:2	GN-W	Direction indicator, RH front fender 10/16:2 Direction indicator, LH front fender 10/15:1	GN-W



## Connectors 54/3LE - 54/3LF

### 54/3LE 6 pin white

#### Passenger compartment harness - Engine compartment harness

No.	Passenger compartment harness		Engine compartment harness	
1	Junction point 53/443	BL-R	Engine Control Module (ECM) 4/46B:37	BL-R
2	Fuse 11C/11:2	BL	RH front lamp housing 10/2A:4	BL
3	Fuse 11C/2:2	BL-W	RH front lamp housing 10/2A:3	BL-W
4	Fuse 11C/1:2	BL-W	LH front lamp housing 10/1A:3	BL-W
5	Fuse 11C/10:2	BL	LH front lamp housing 10/1A:4	BL
6	Fog light relay, front 2/34:1	P	Fog light, RH front 10/6:1 Fog light LH front 10/5:1	P

### 54/3LF 13 pin white

#### Passenger compartment harness - Engine compartment harness

No.	Passenger compartment harness		Engine compartment harness	
1	Combined instrument panel DIM 5/1:4	GR	Engine Control Module (ECM) 4/46B:46	GR
2	CEM 4/56A:5	R-W	Generator 6/26B:1	R-W
3	CEM 4/56A:1	Y-GR	Reversing light contact 3/10:2	Y-GR
4	CEM 4/56D:9	Y	Automatic transmission solenoids 8/37B:1 Transmission Control Module (TCM) 4/28A:44	Y BL-Y
5	CEM 4/56D:6 Data link connector 17/13:7	W	Engine Control Module (ECM) 4/46B:22 Transmission Control Module (TCM) 4/28B:22	W-SB
6	Gear Shift Module (GSM), automatic transmission 3/156A:2	GN-W	Transmission Control Module (TCM) 4/28B:21	GN-SB
7	Fuse 11C/38:2	R	Alarm siren SCM 16/35:1	R
8	Rain sensor 7/149:4 CEM 4/56B:16	W	Windshield wiper motor 6/1:3	BL-W
9	Combined instrument panel DIM 5/1:5	Y-R	Brake fluid level monitor 7/4:1	Y-R
10	Fuse 11C/31:2	GR	Junction point 53/379	GR
11	Fuse 11C/30:2	W	Junction point 53/378	W
12	Junction point 53/437	VO-W	Connector 54/9:4	VO-W
13	CEM 4/56A:18 Light control module 3/111:3	GN-W	Connector 54/9:6	GN-W

**54/3LG 13 pin white****Passenger compartment harness - Engine compartment harness**

No.	Passenger compartment harness		Engine compartment harness	
1	CEM 4/56A:12	W	Stepper motor, speed-dependent power steering control 6/71:5	GR-W
2	CEM 4/56A:11	GN	Stepper motor, speed-dependent power steering control 6/71:4	GN
3	CEM 4/56A:7	Y	Stepper motor, speed-dependent power steering control 6/71:3	Y
4	CEM 4/56A:6	BN	Stepper motor, speed-dependent power steering control 6/71:2	BN
5	Upper Electronic Module (UEM) 4/70:21	P	Alarm siren SCM 16/35:2	P
6	Junction point 53/430 CEM 4/56B:17	W	Junction point 53/352	W
7	Junction point 53/431 CEM 4/56B:18	GN	Junction point 53/353	GN
8	CEM 4/56C:6	BN-W	Connector 54/8:2	BN-W
9	CEM 4/56A:4	Y	Connector 54/4:3	Y
10	CEM 4/56B:16	Y	Windshield washer pump 6/2:3	GN-Y
11	CEM 4/56A:9	GN-R	LH beam adjustment actuator 6/38:2 RH beam adjustment actuator 6/39:2	GN-R
12	CEM 4/56B:4	Y	Junction point 53/365	Y
13	Fuse 11C/12:2	VO	Junction point 53/380	VO

**54/3 LH 2 pin black****Passenger compartment harness - Engine compartment harness**

No.	Passenger compartment harness		Engine compartment harness	
1	Junction point 53/415	R	Distribution rail relay/fuse box 15/21	R-SB

**54/4 4 pin dark gray****Front harness - Engine compartment harness**

No.	Front harness		Engine compartment harness	
1	Horn 1 16/10:1	R-SB	Horn relay 2/17:5	R-SB
2	Horn 2 16/11:1	R-SB	Horn relay 2/17:5	R-SB
3	Hood alarm contact 3/62:1	Y	Connector 54/3LG:9	Y
4	Junction point 53/382	SB	Junction point 53/331	GR-SB

**54/8 2 pin dark gray****Engine compartment harness - Front harness**

No.	Engine compartment harness		Front harness	
1	Fuse 11B/2:2	R	Junction point 53/343	R-SB
2	Connector 54/3LG:8	BN-W	Auxiliary light relay 2/64:1	BN-W

## Connectors 54/9 - 54/10

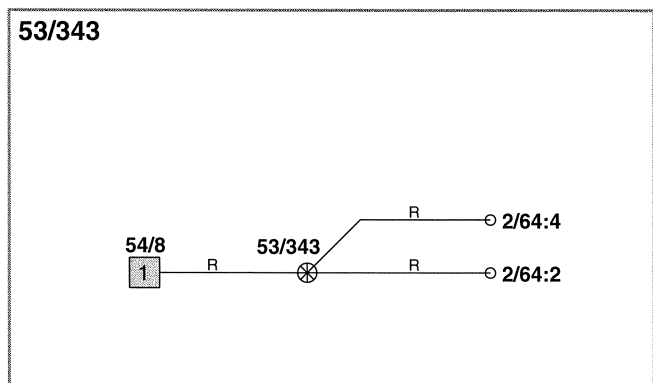
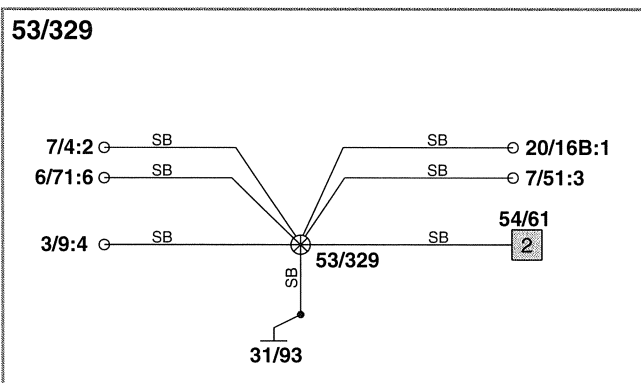
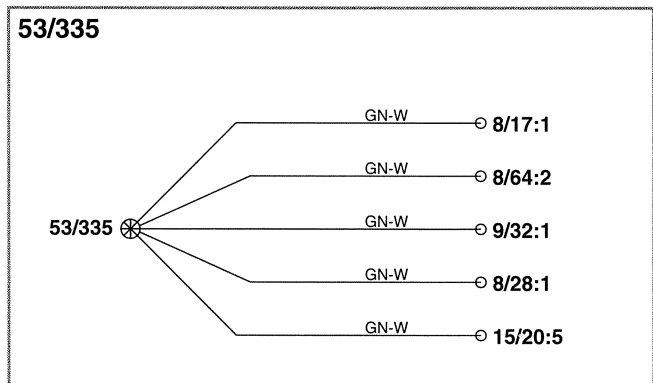
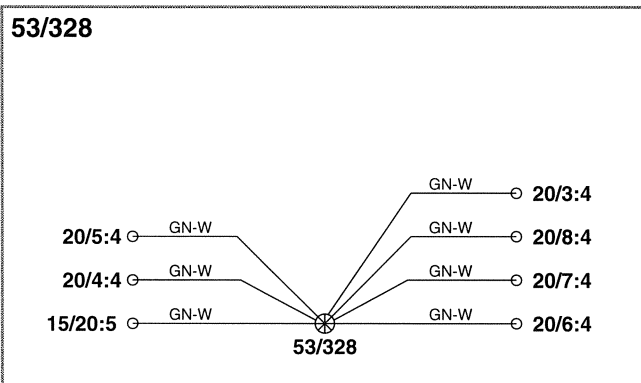
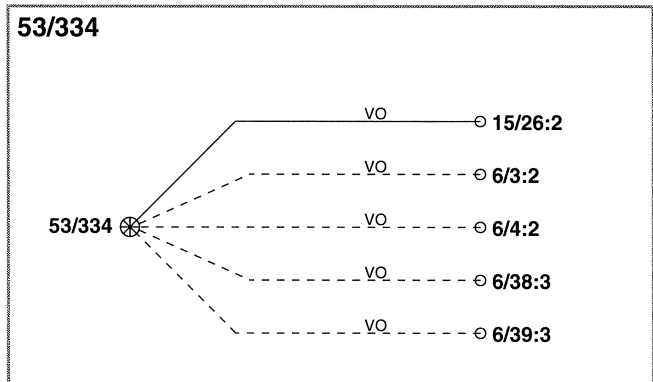
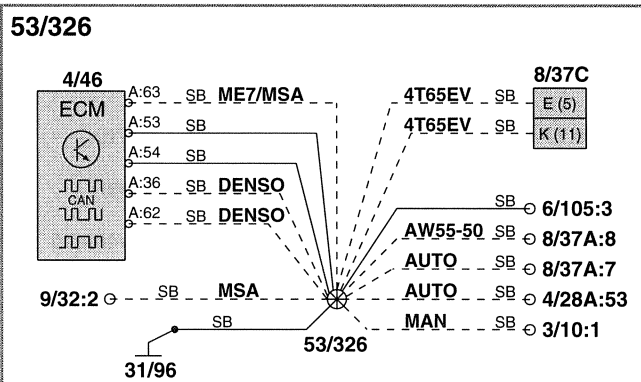
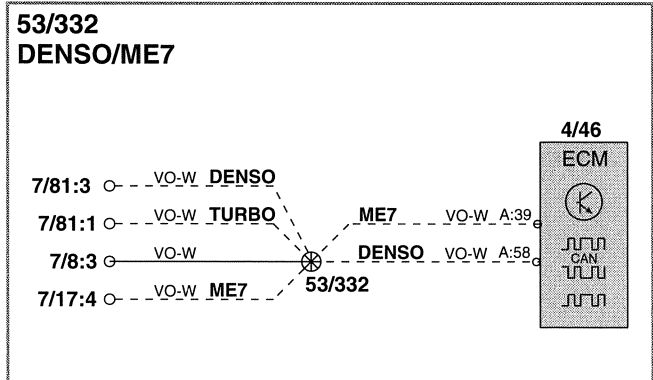
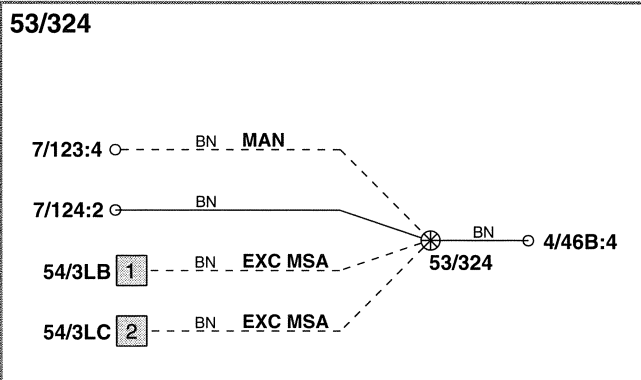
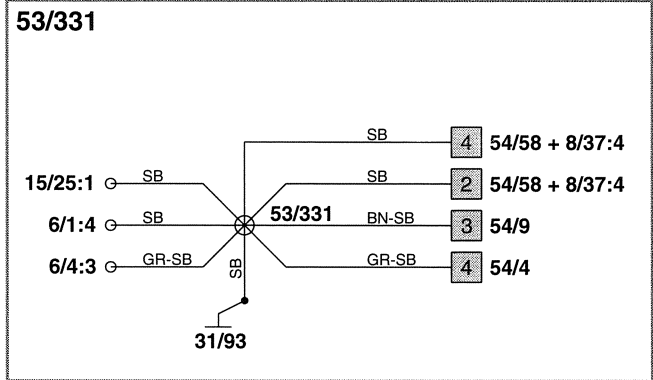
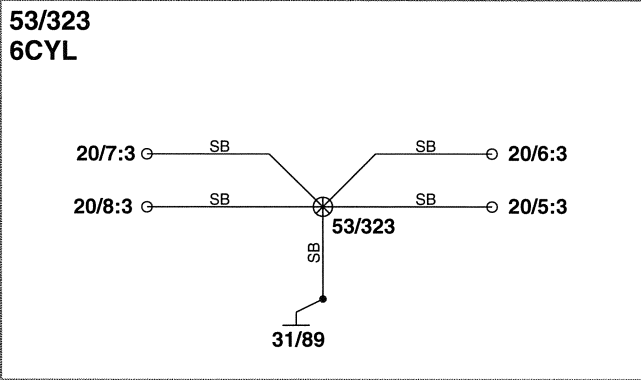
### 54/9 6 pin dark gray Engine compartment harness - Front harness

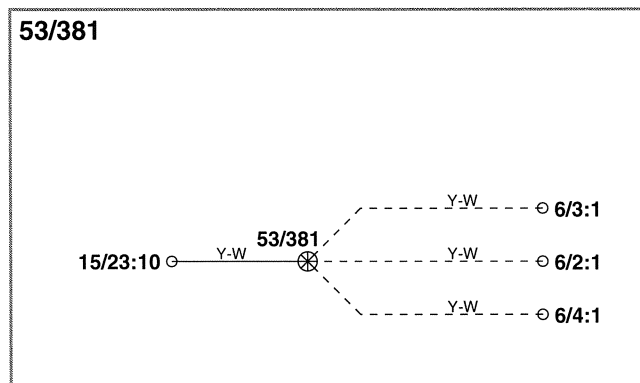
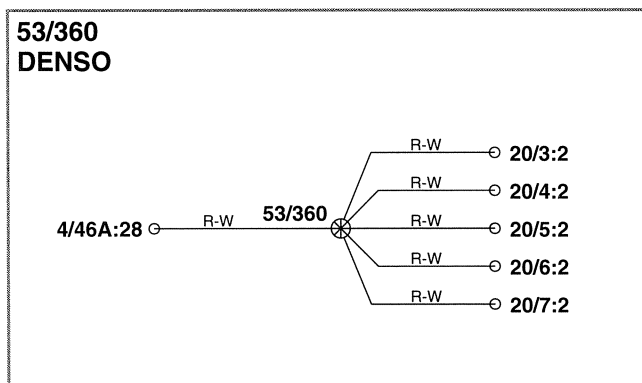
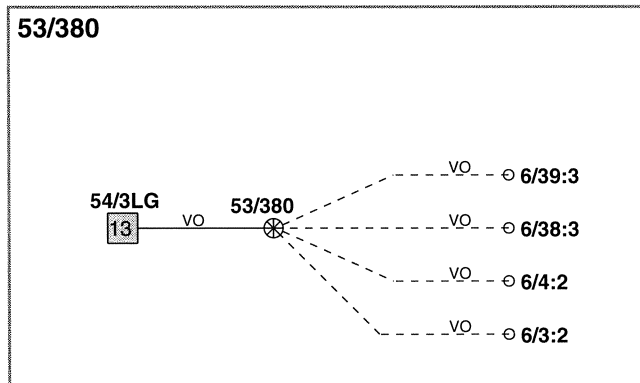
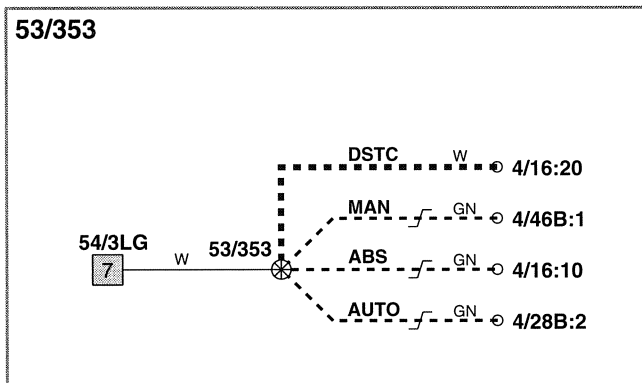
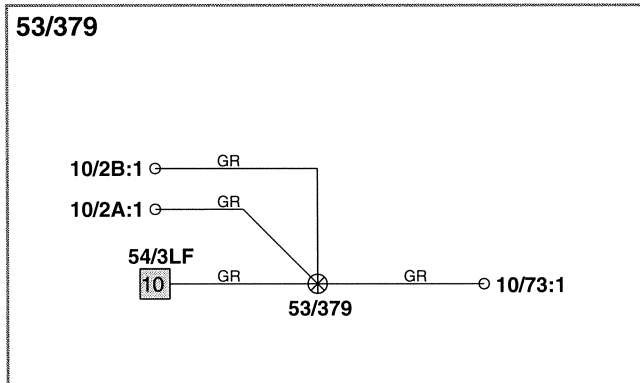
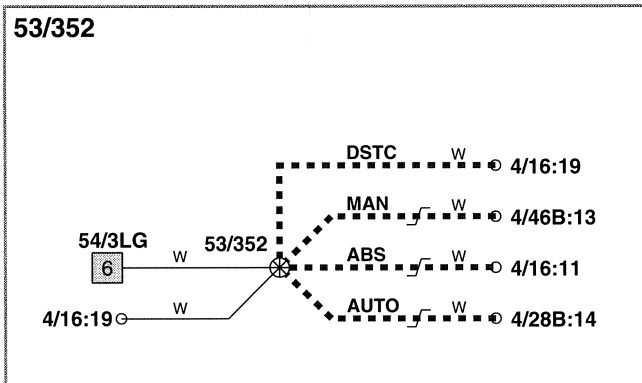
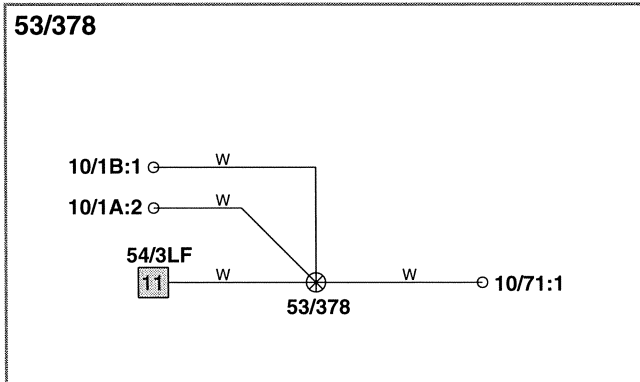
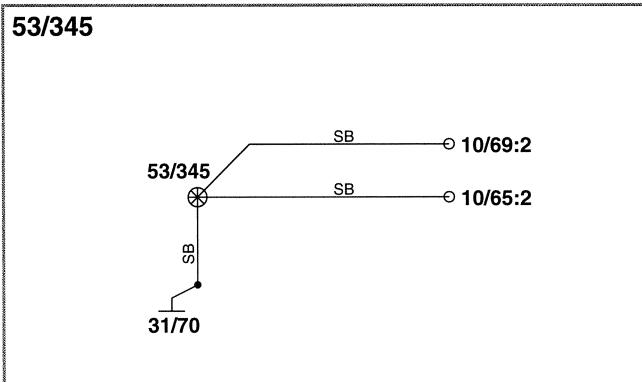
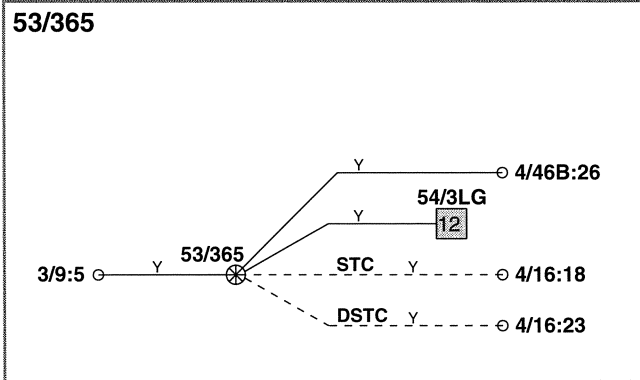
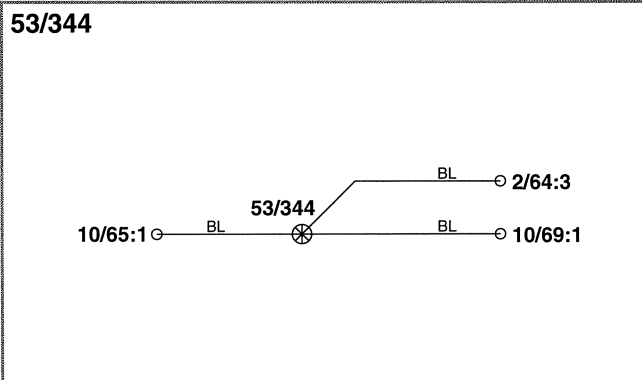
No.	Engine compartment harness		Front harness	
1	Fuse 11B/9:2	-	Combustion Preheater Module (CPM) 4/7:9	R
3	Junction point 53/331	-	Junction point 53/351	BN-SB
4	Connector 54/3LF:12	-	Combustion Preheater Module (CPM) 4/7:15	VO-W
6	Connector 54/3LF:13	-	Combustion Preheater Module (CPM) 4/7:6	GN-W

### 54/10 12 pin black Passenger compartment harness - LH front door harness

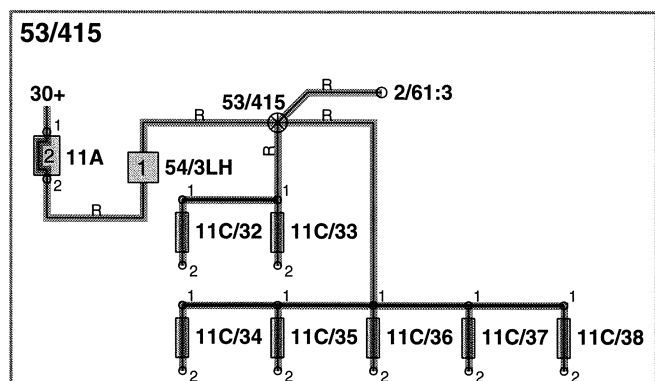
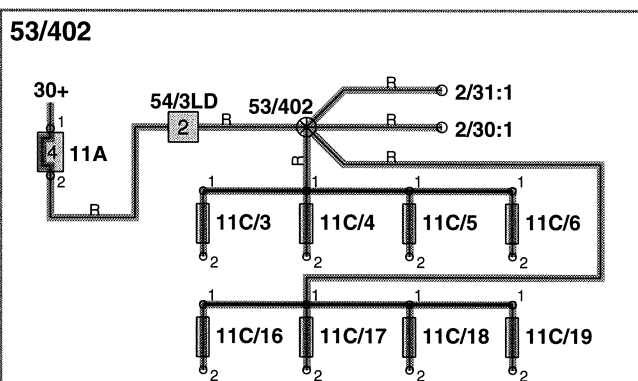
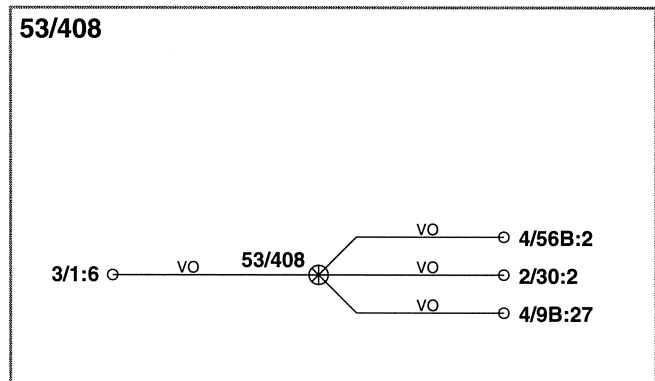
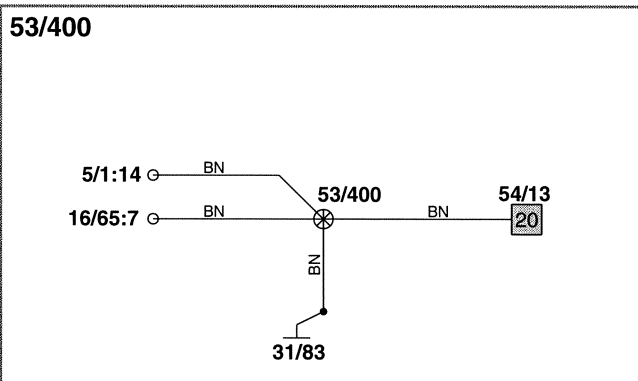
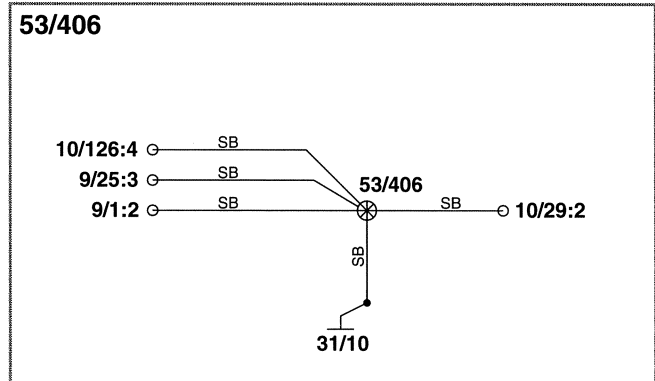
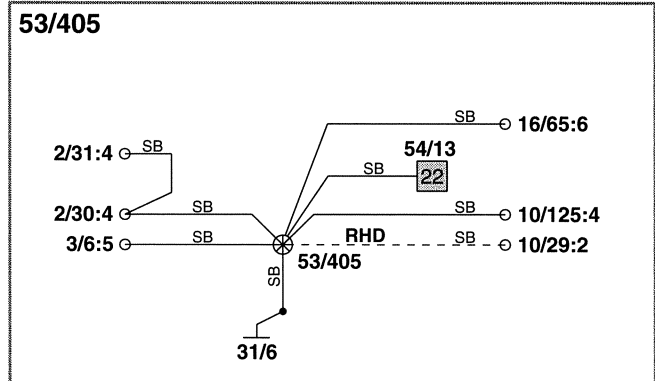
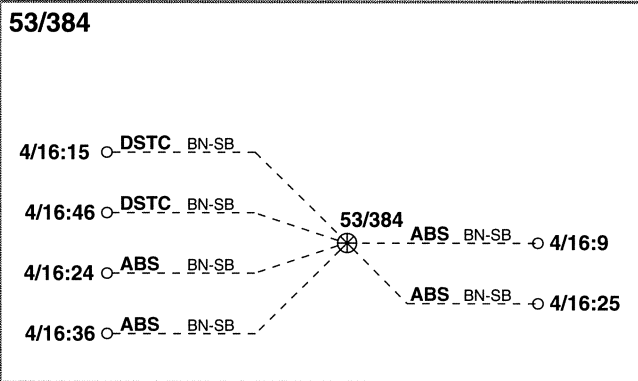
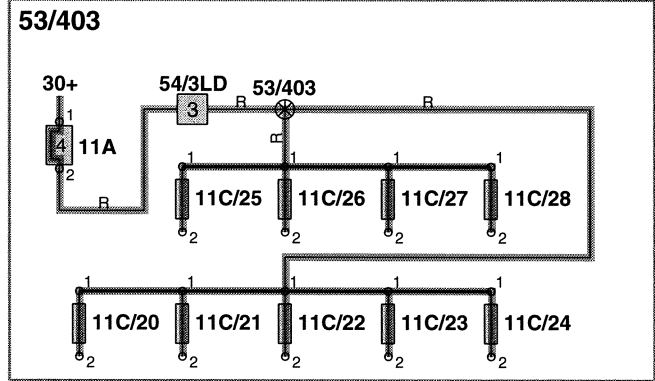
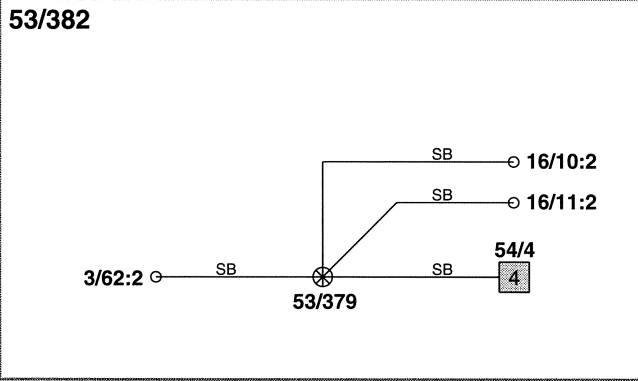
No.	Passenger compartment harness		LH front door harness	
1	Fuse 11C/35:2	R	Control module, LH front door DDM/PDM 3/126B:12	R
2	Fuse 11C/27:2	R-W	Control module, LH front door DDM/PDM 3/126B:7	R-W
3	Junction point 53/516	W	Control module, LH front door DDM/PDM 3/126A:2	W
4	Junction point 53/517	GN	Control module, LH front door DDM/PDM 3/126A:3	GN
5	Connector 54/3LC:3	W	LH power door mirror 6/62:2	W
6	Connector 54/3LC:2	BN	LH power door mirror 6/62:3	BN
8	CEM 4/56D:7	P	Lock unit, LH front door 3/74:3	P
9	Radio 16/1B:1 Connector 54/14:1	GR-R	Junction point 53/519	GR-R
10	Radio 16/1B:2 Connector 54/14:2	GR	Junction point 53/520	GR
11	Junction point 53/500	SB	Control module, LH front door DDM/PDM 3/126B:5	SB
12	Junction point 53/510 LHD	BN	Control module, LH front door DDM/PDM 3/126B:9	BN

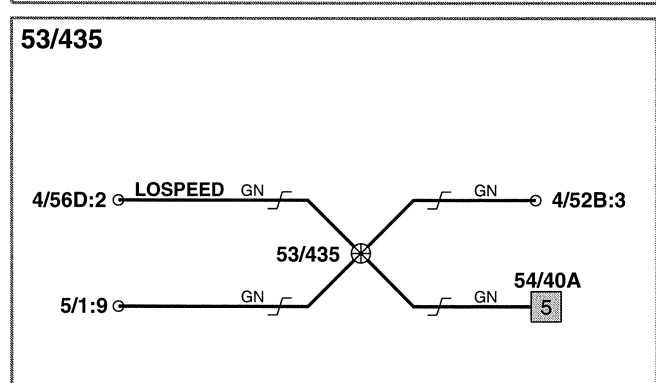
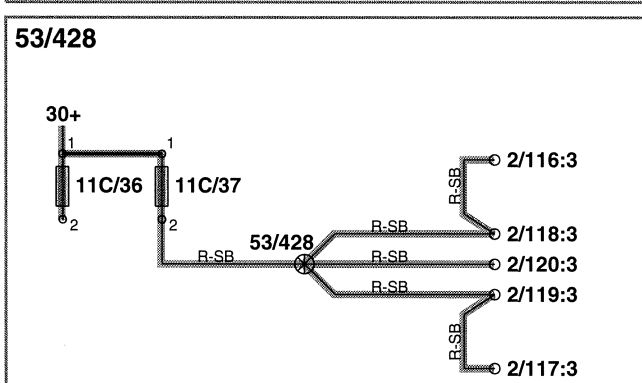
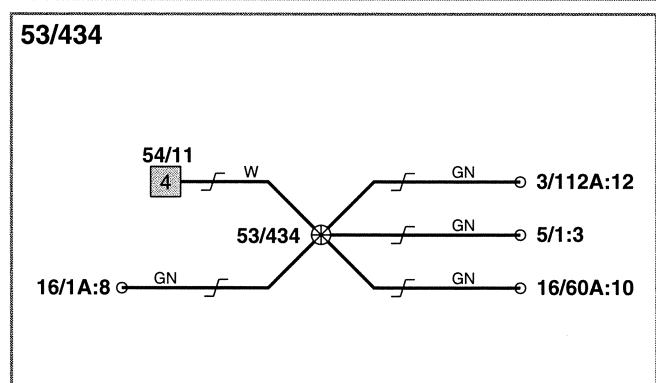
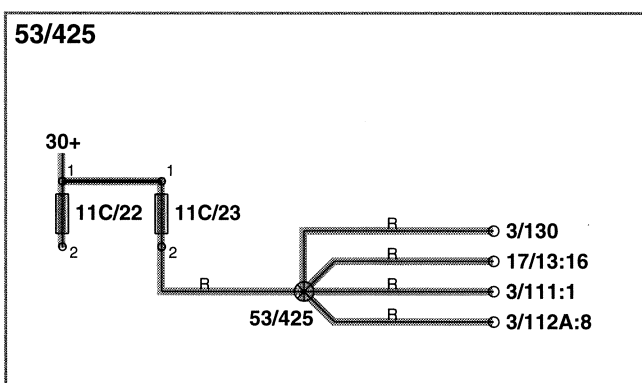
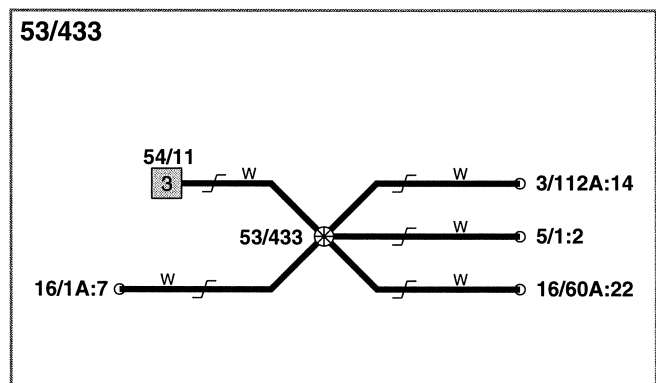
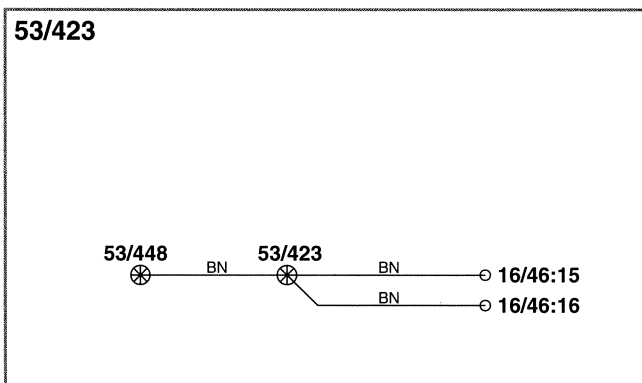
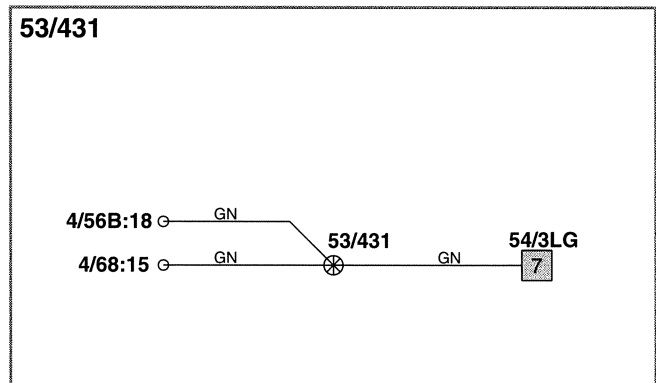
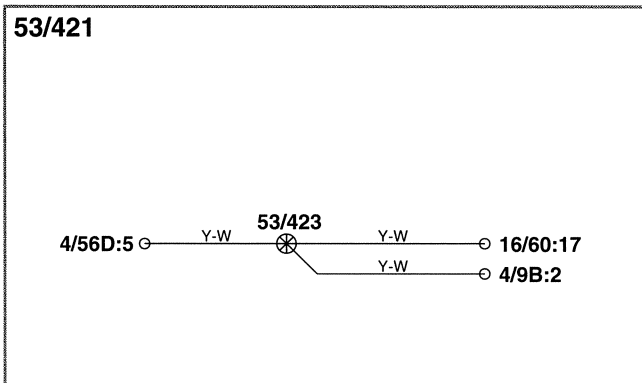
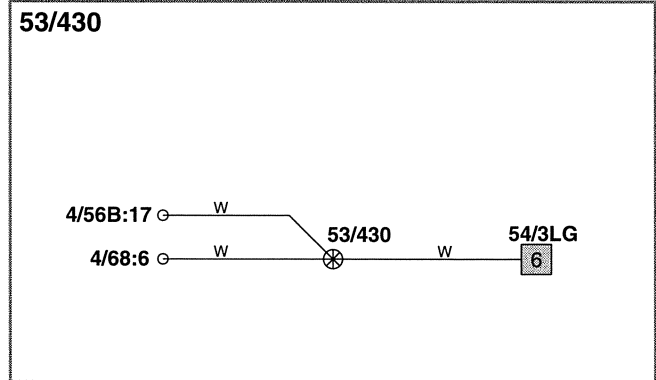
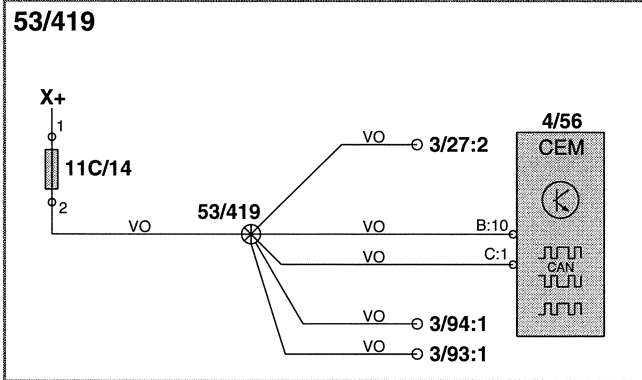
# Junction points 53/323 - 53/343



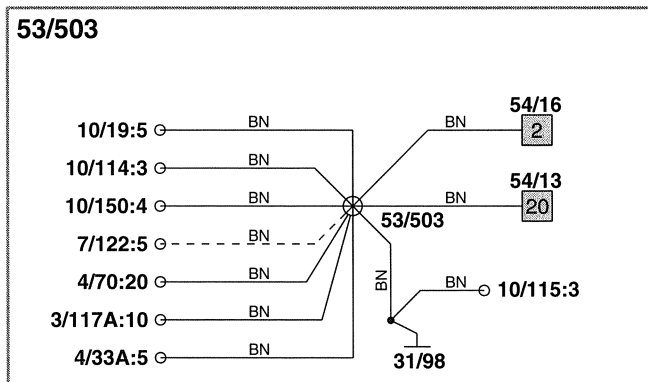
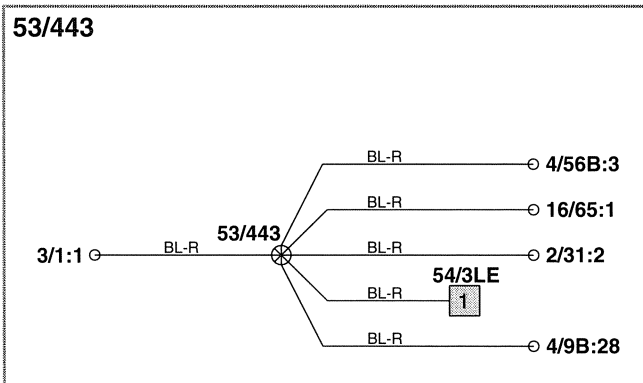
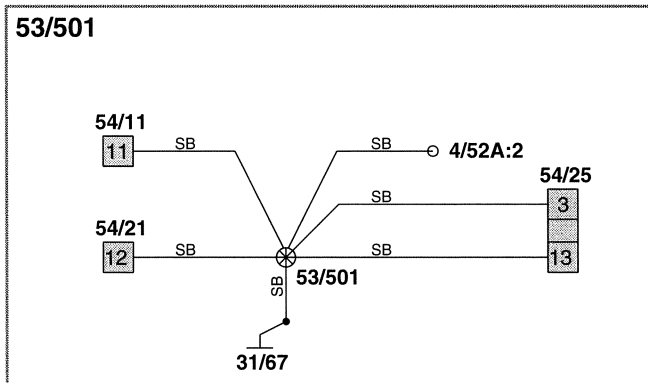
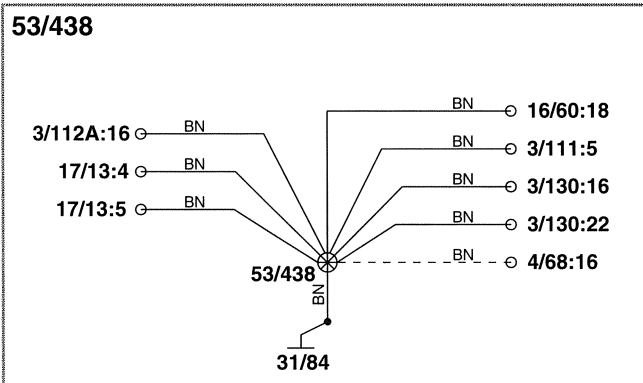
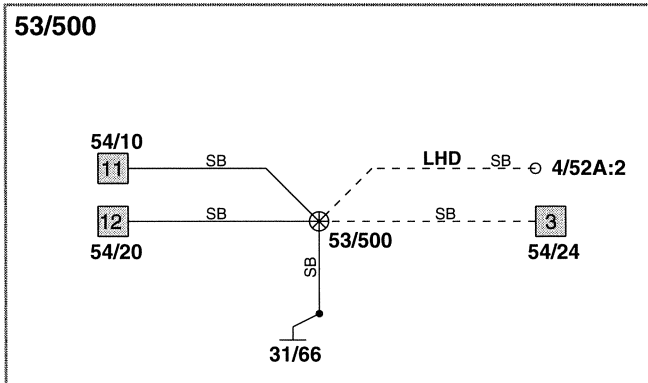
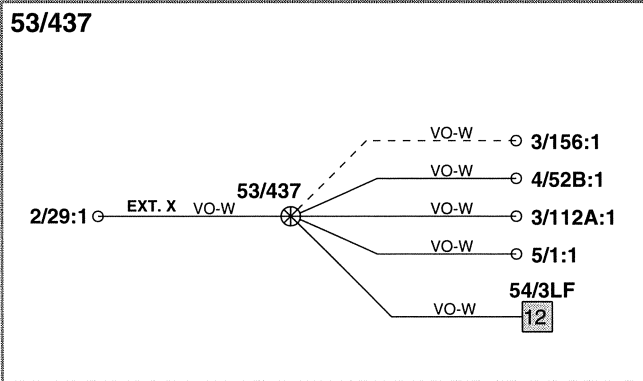
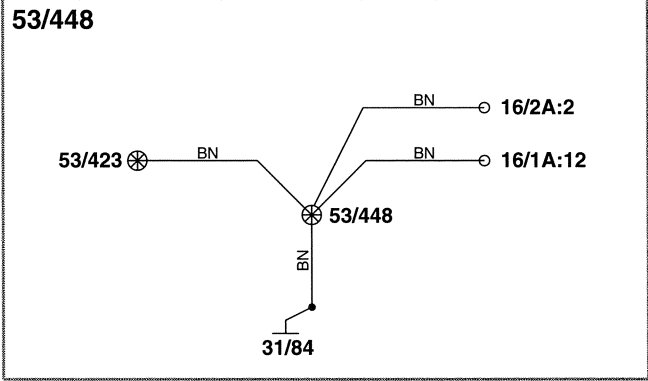
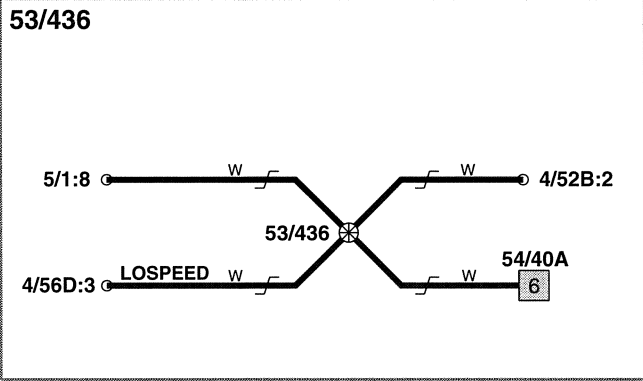


# Junction points 53/382 - 53/415

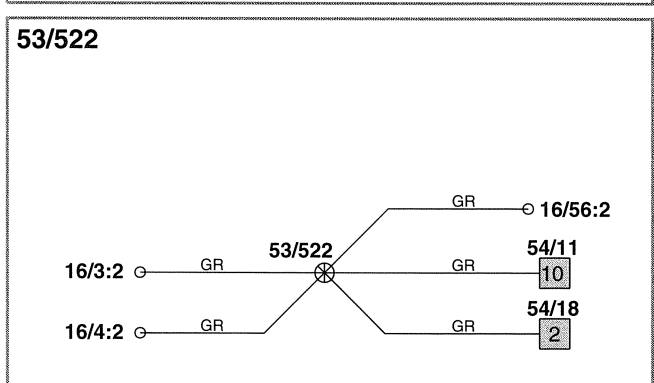
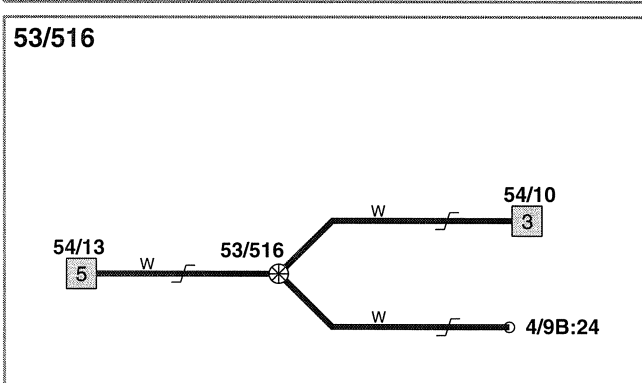
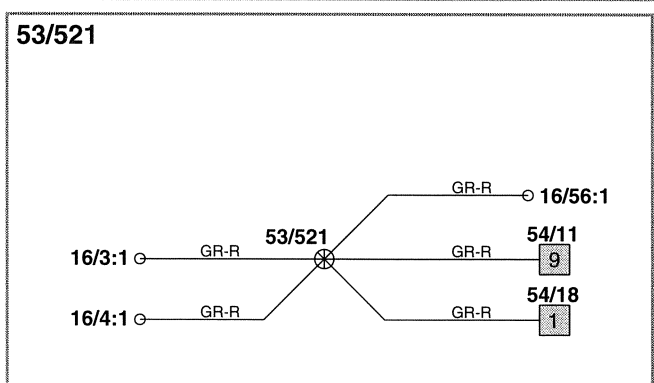
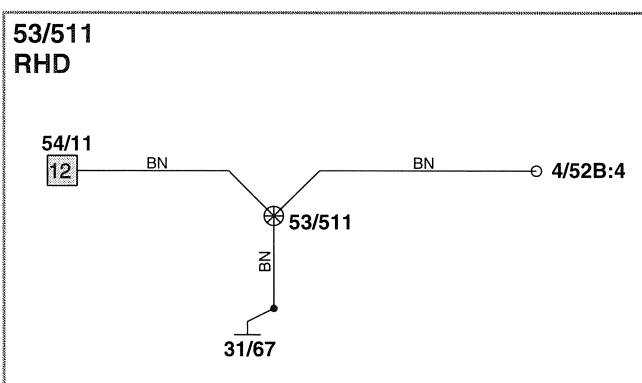
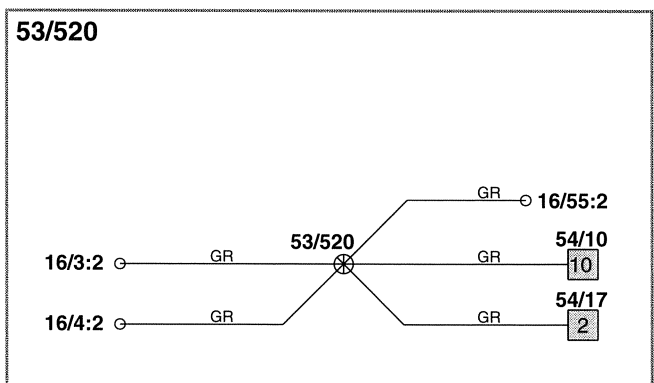
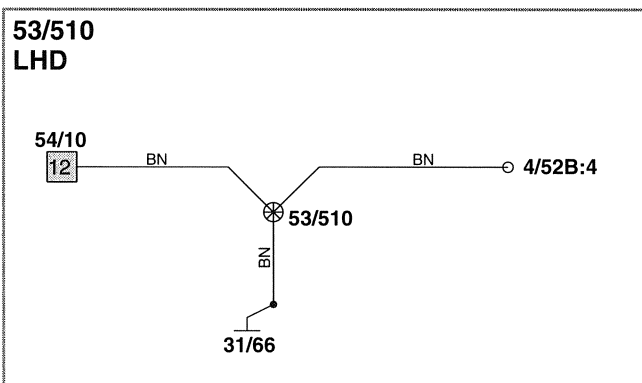
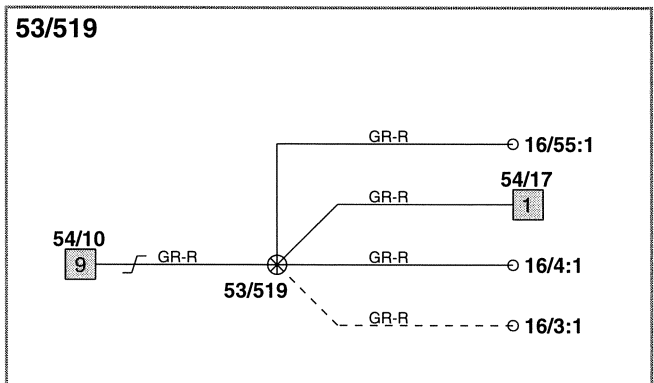
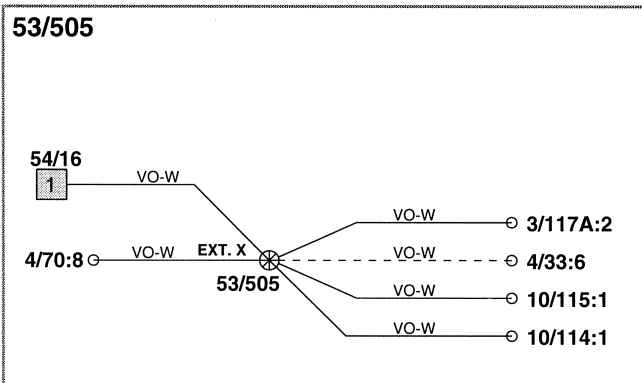
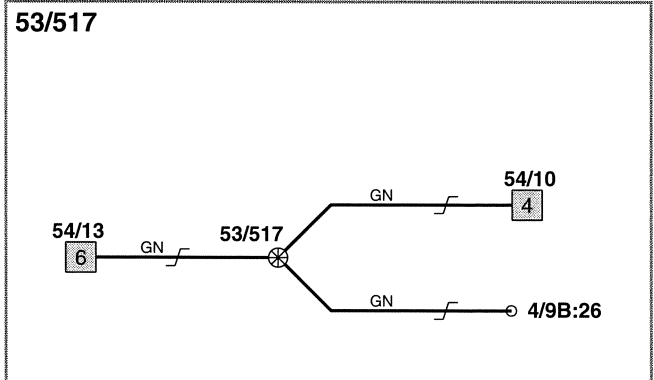
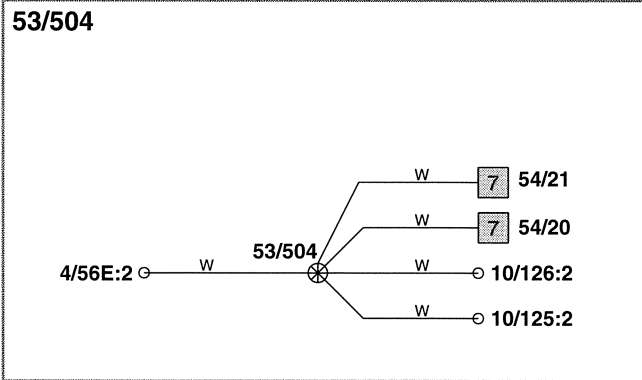




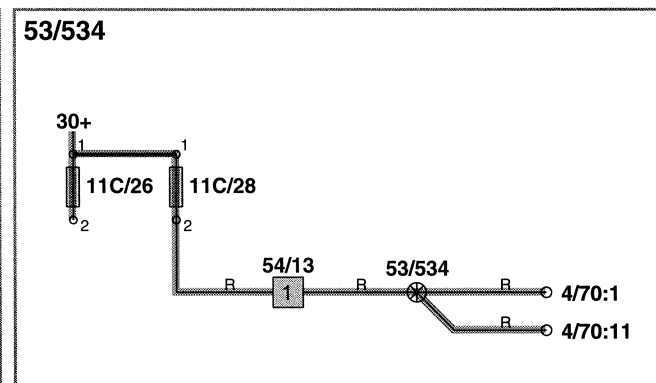
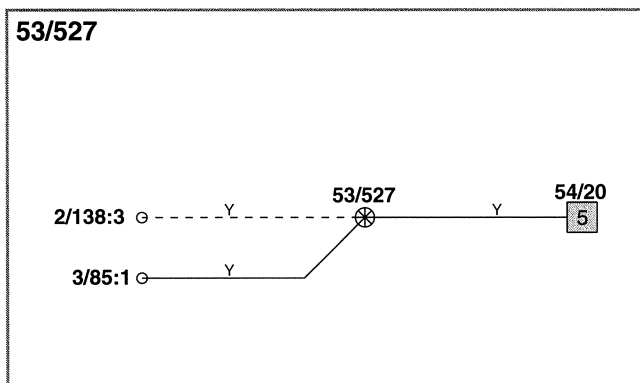
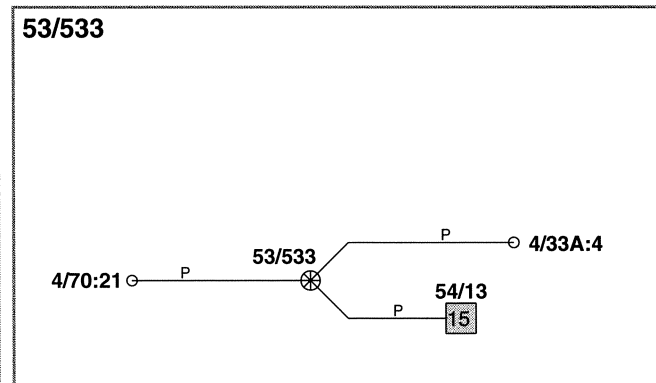
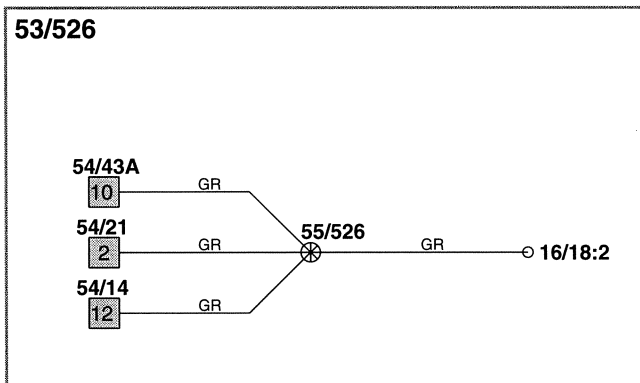
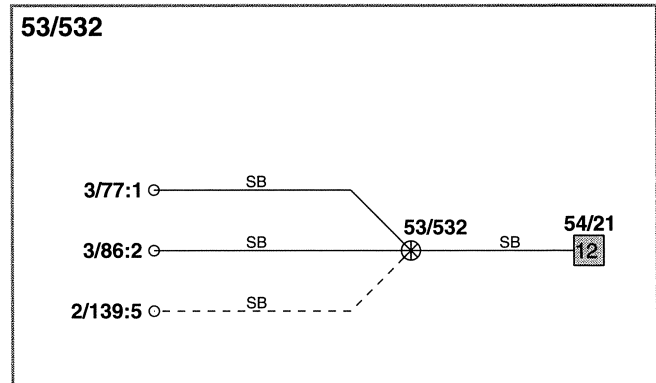
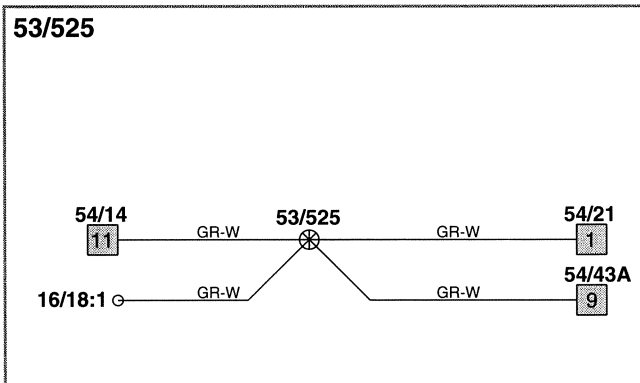
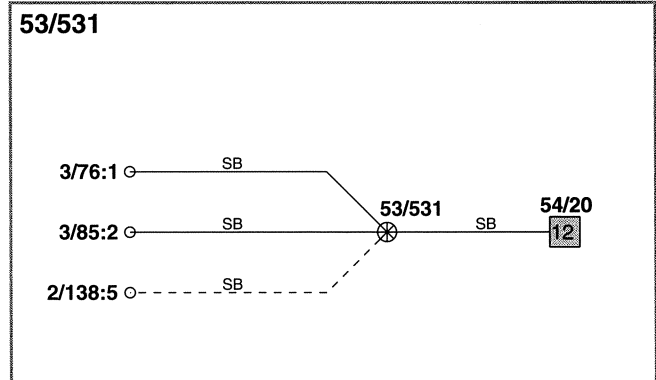
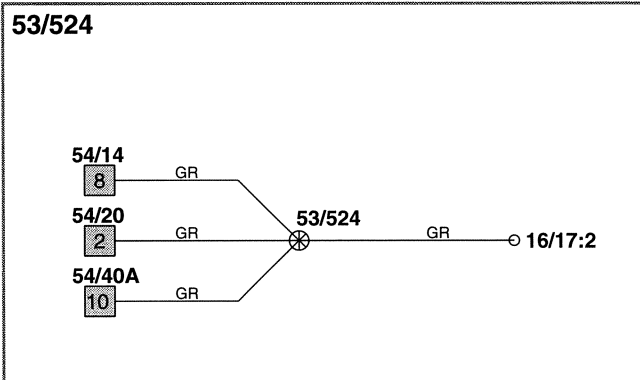
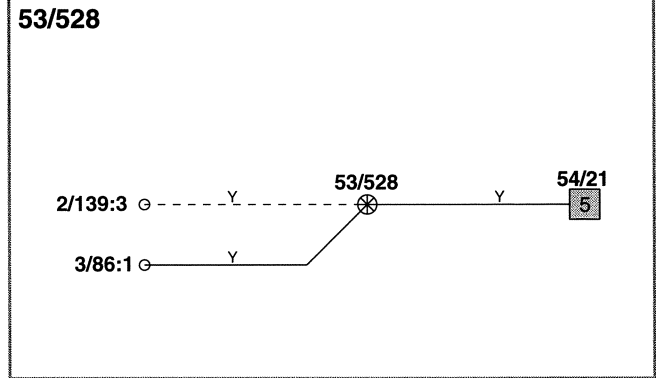
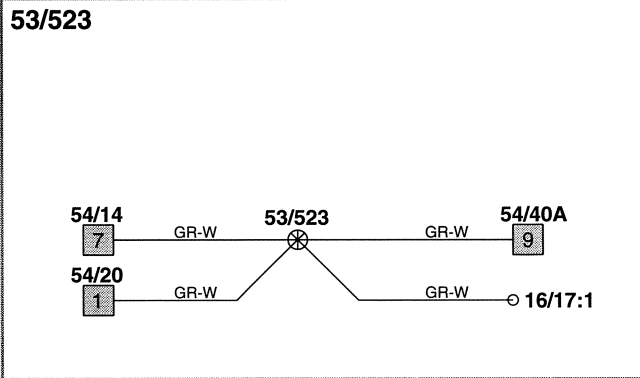
# Junction points 53/436 - 53/503

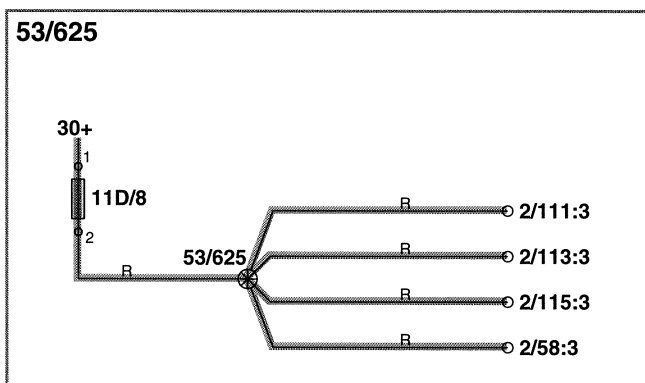
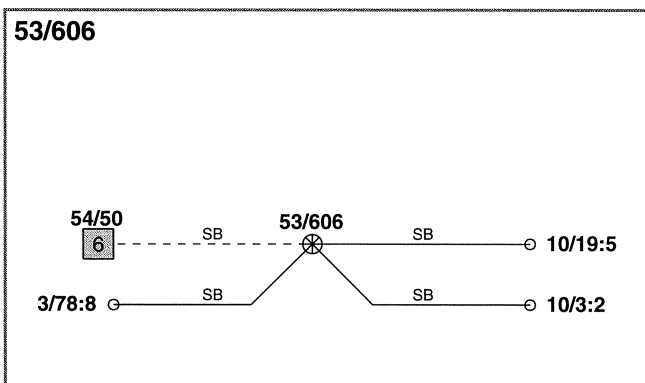
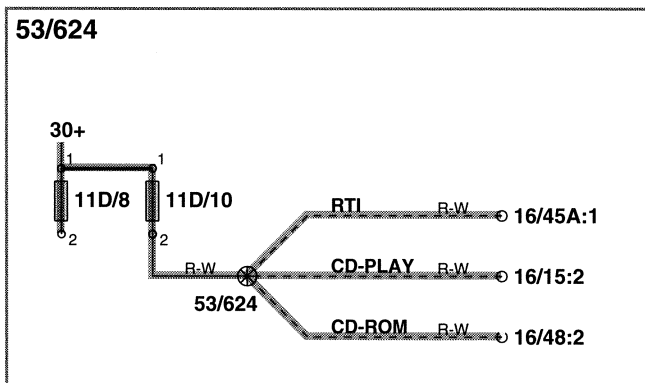
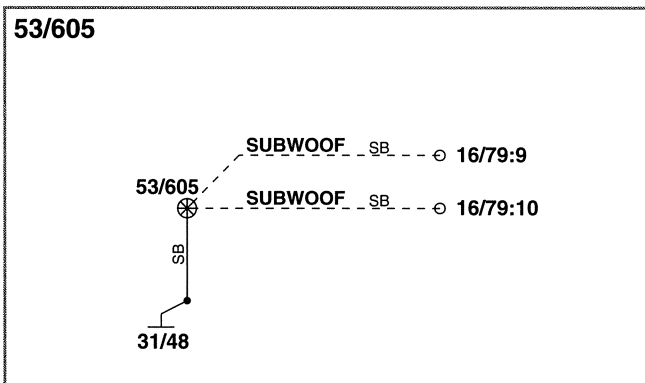
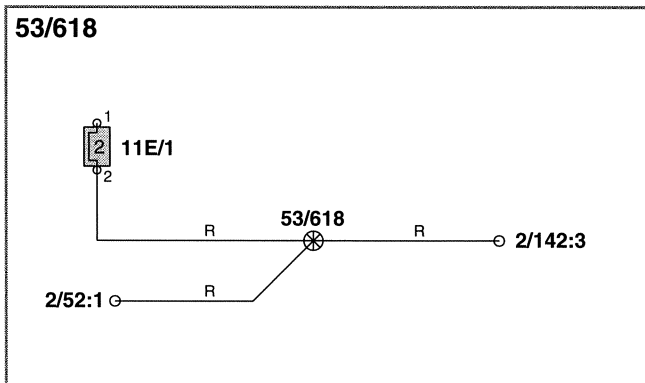
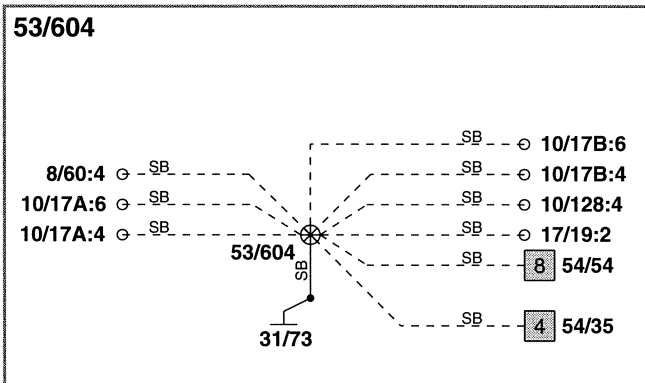
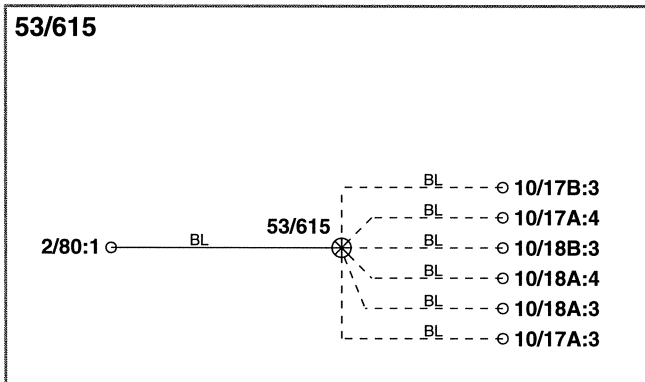
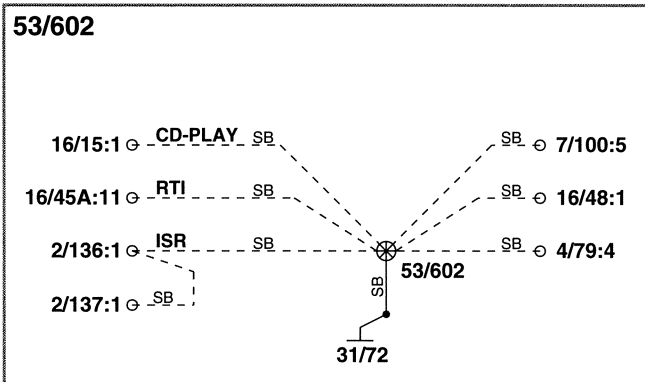
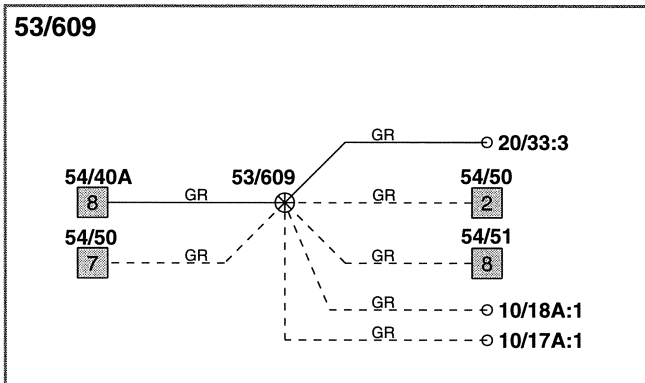
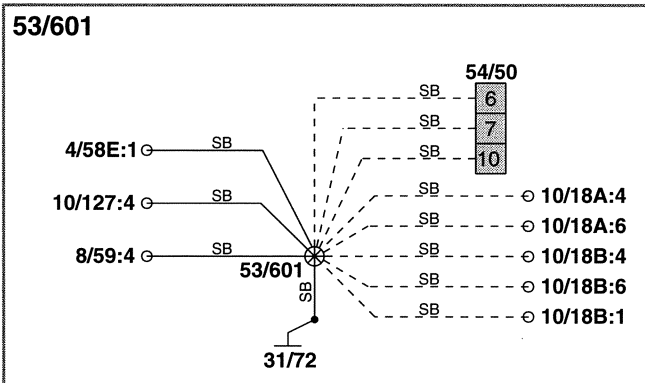




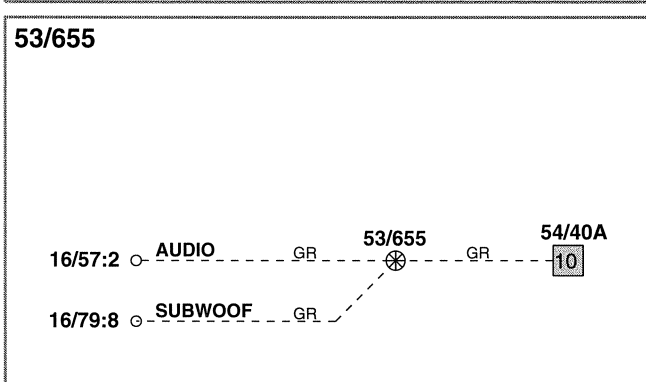
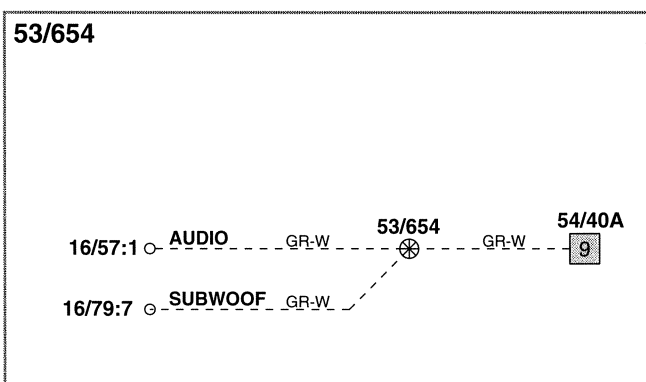
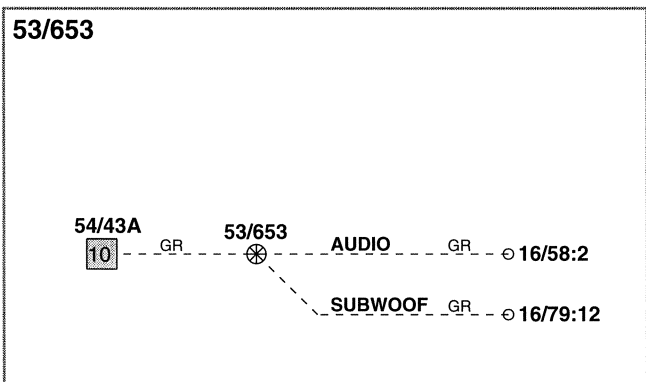
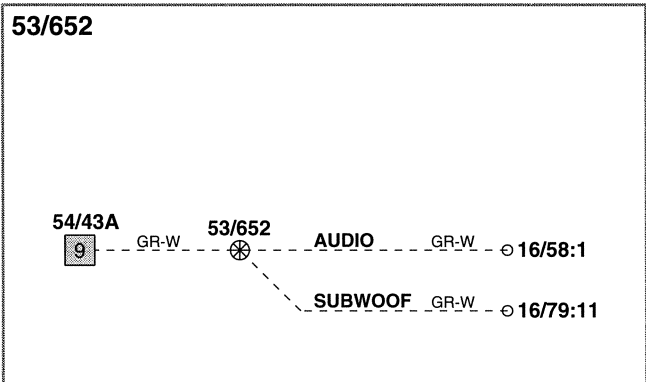
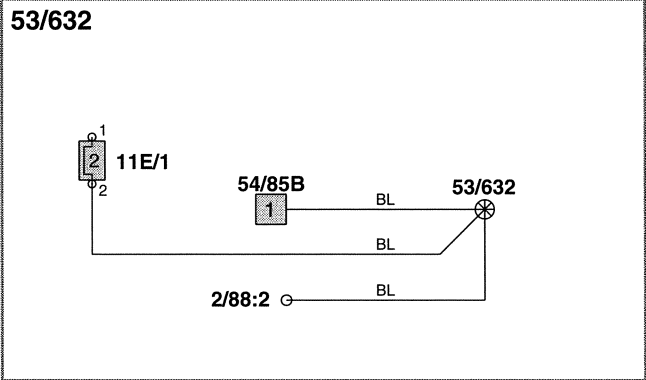


# Junction points 53/523 - 53/534



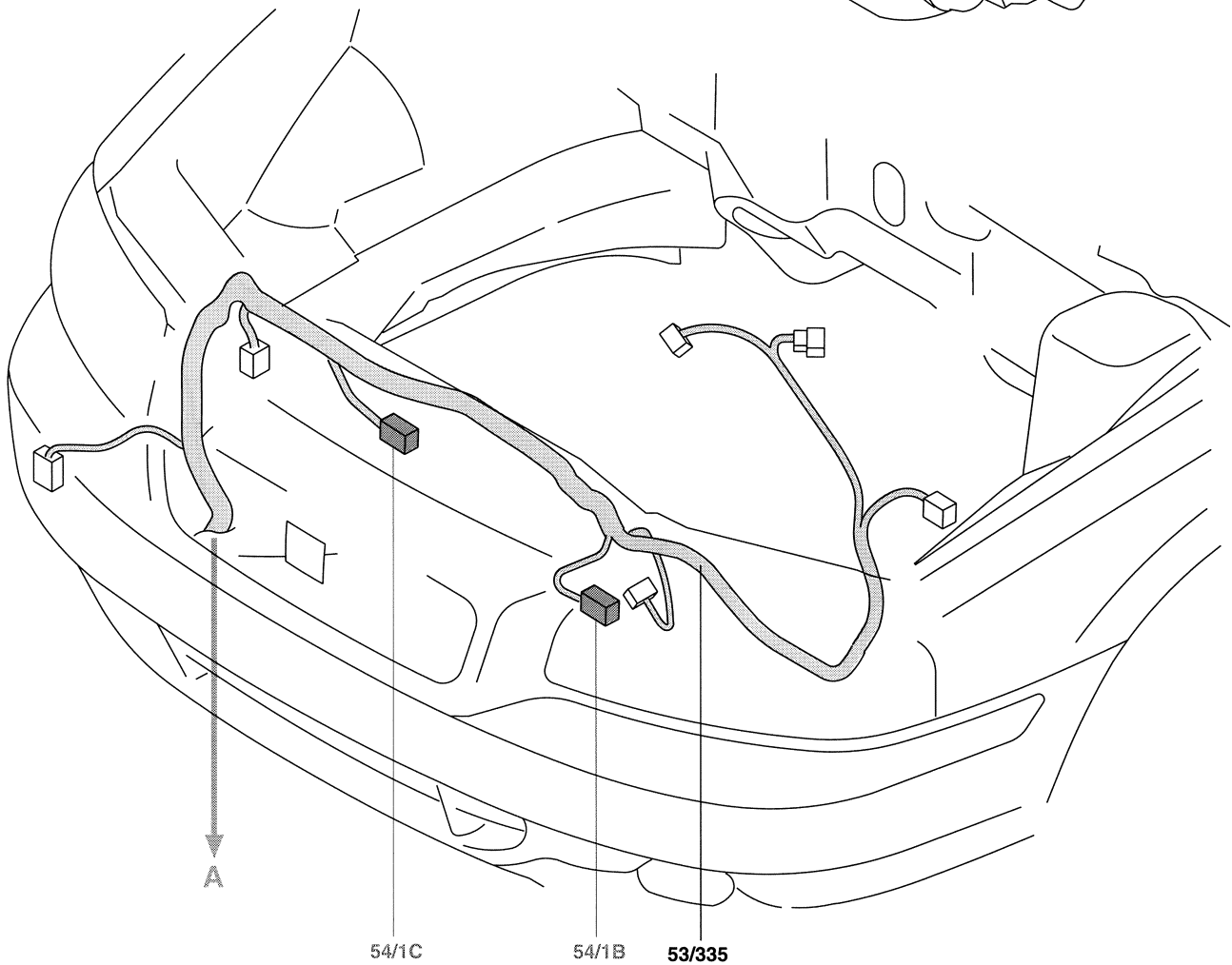
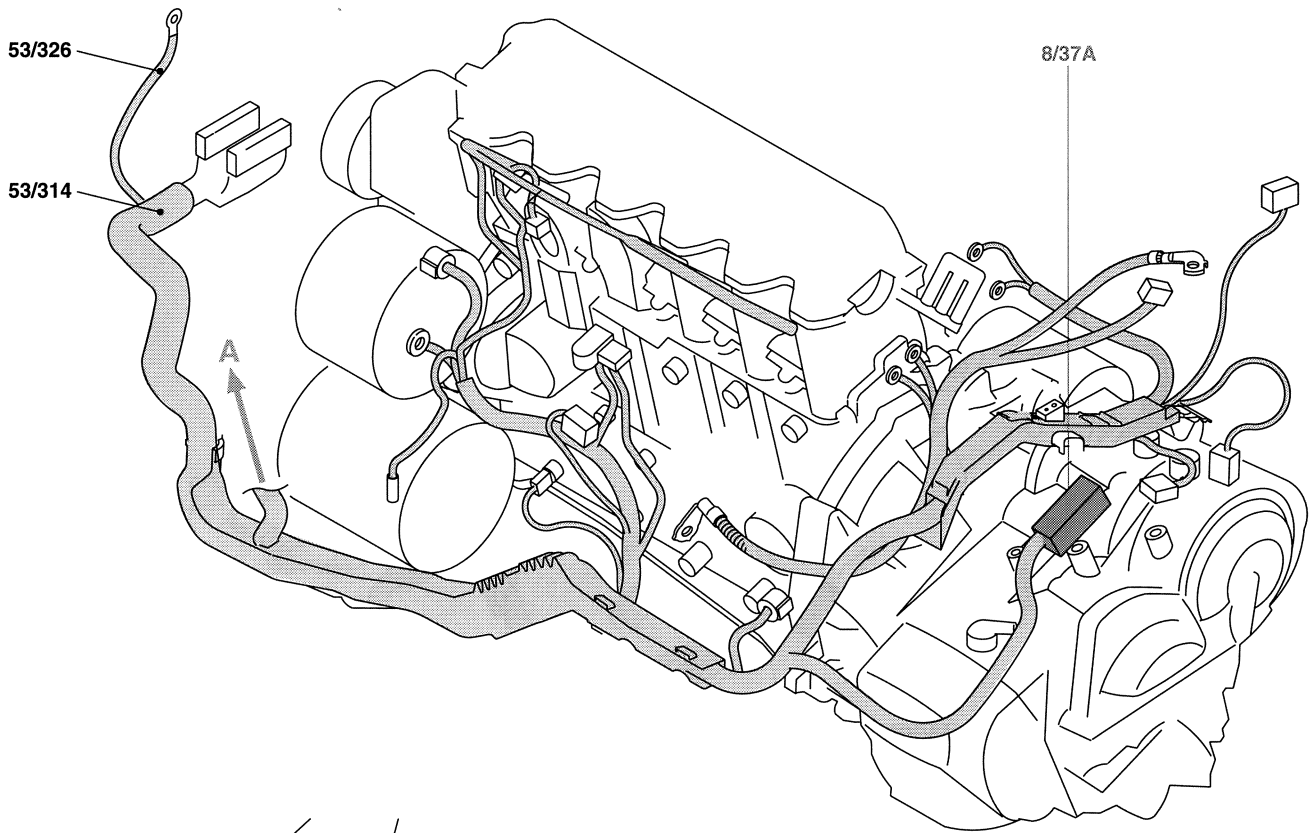


# Junction points 53/632 - 53/655

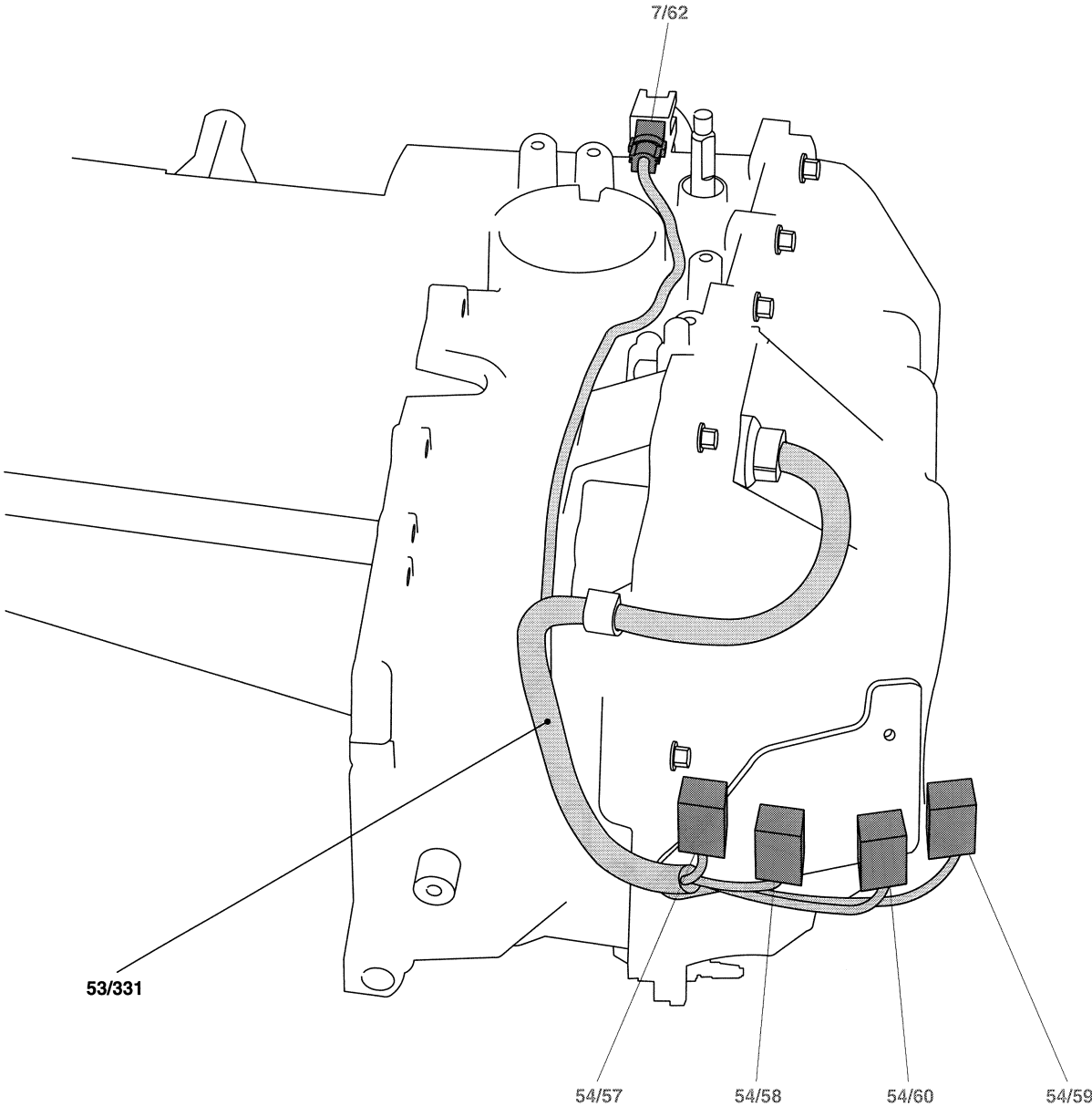


# Cable harness routing in vehicle

## Engine harness MSA

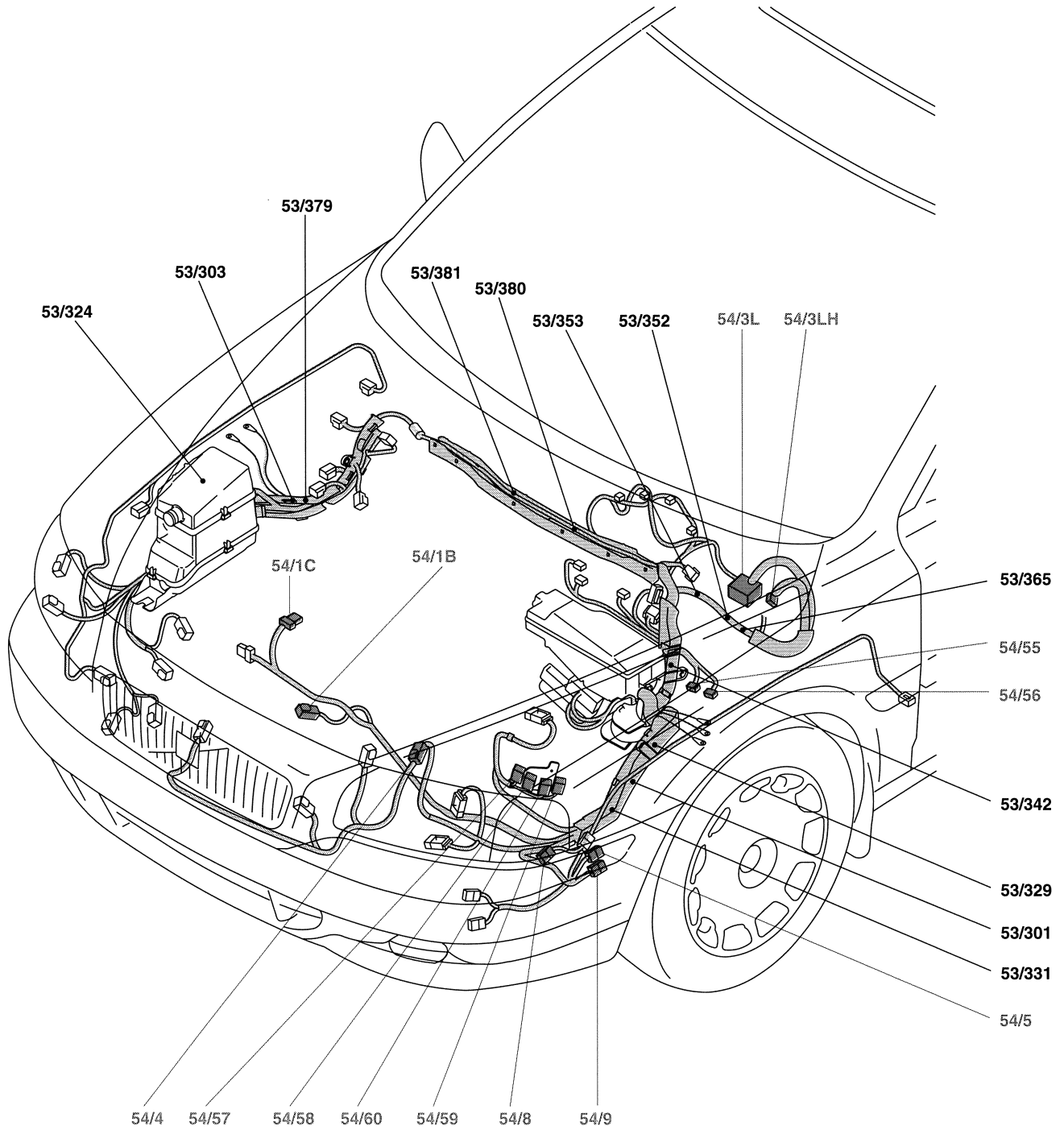


GM transmission 4T65EV

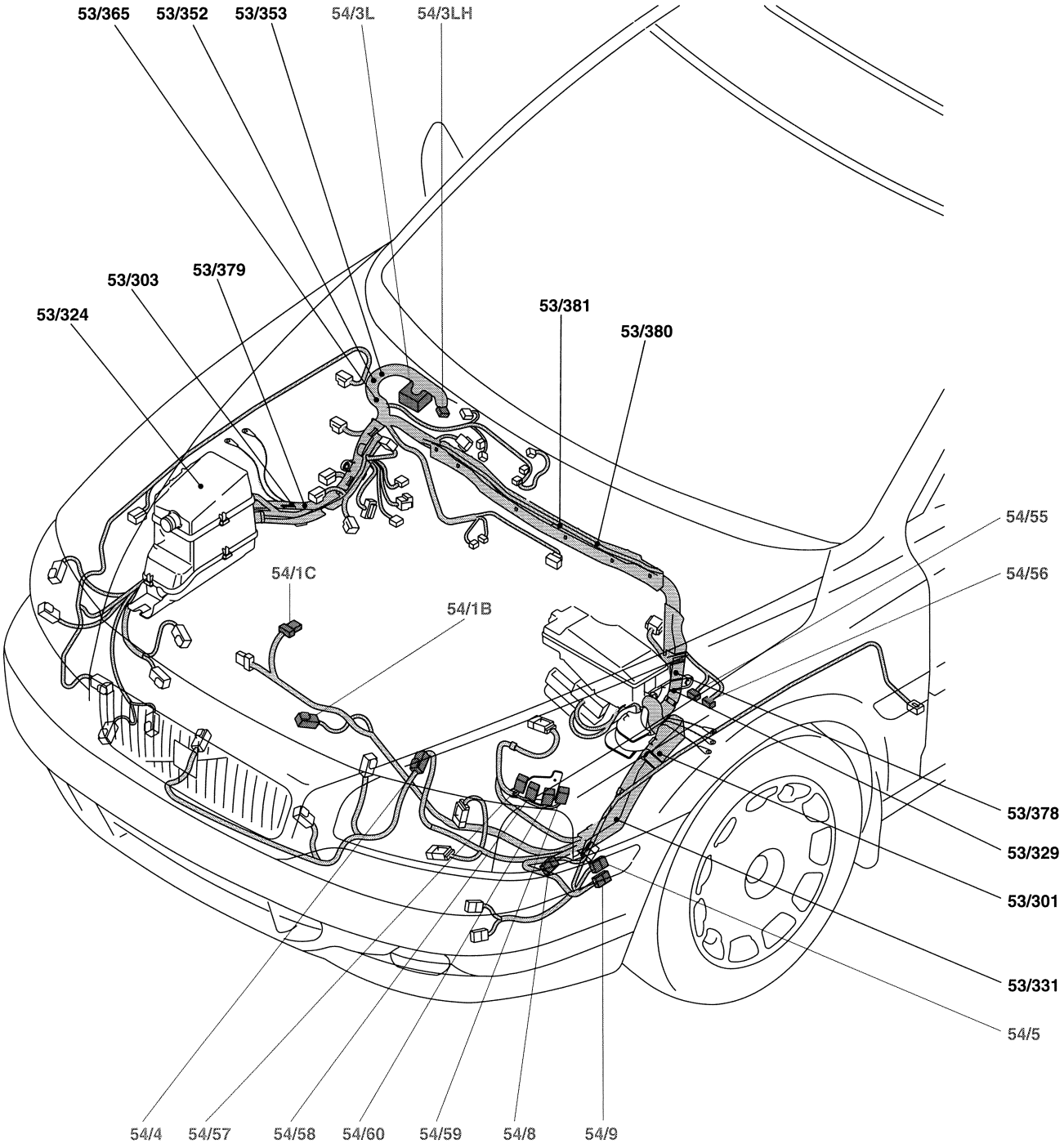


# Cable harness routing in vehicle S80/V70

## Engine compartment harness LHD



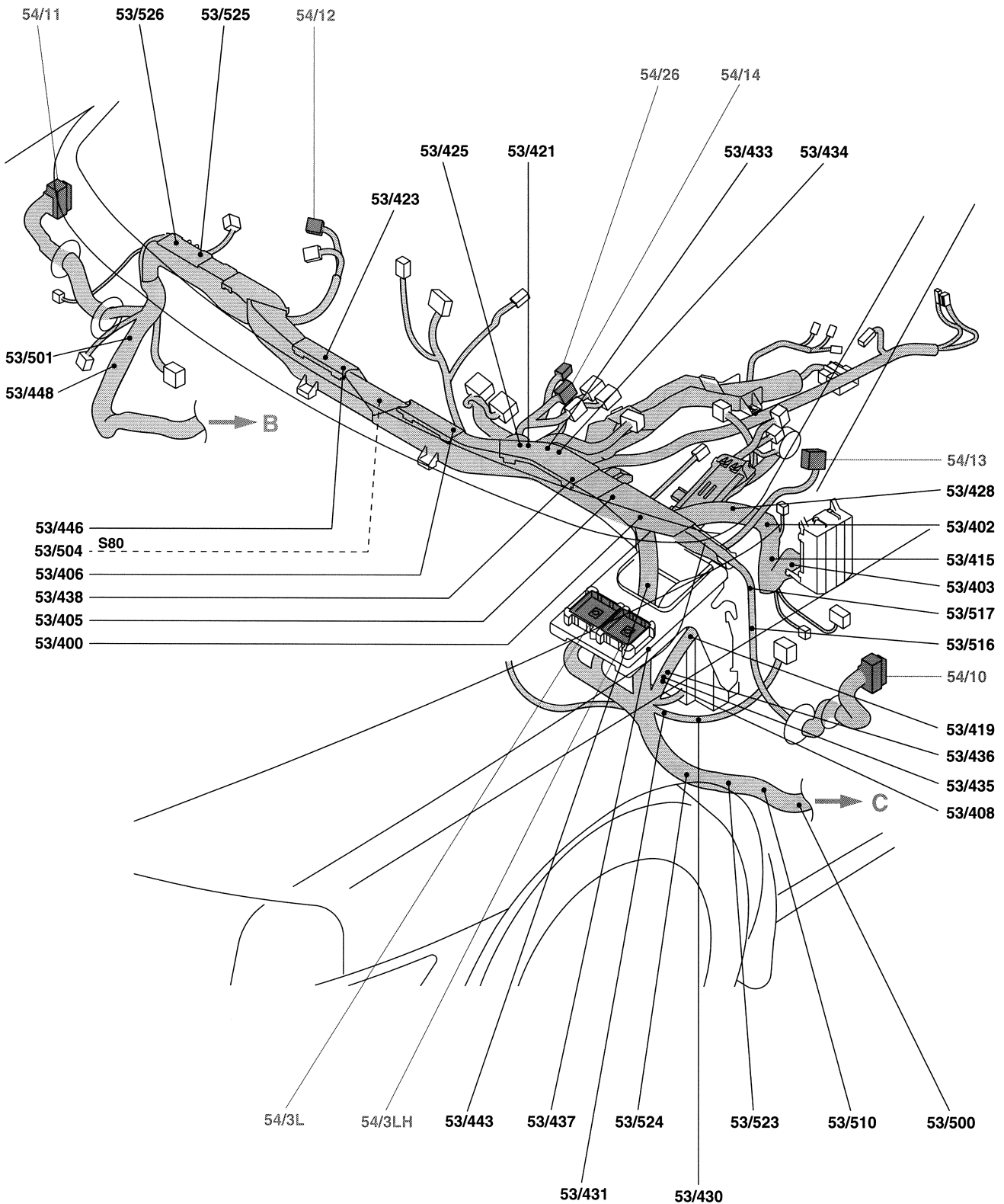
Engine compartment harness RHD



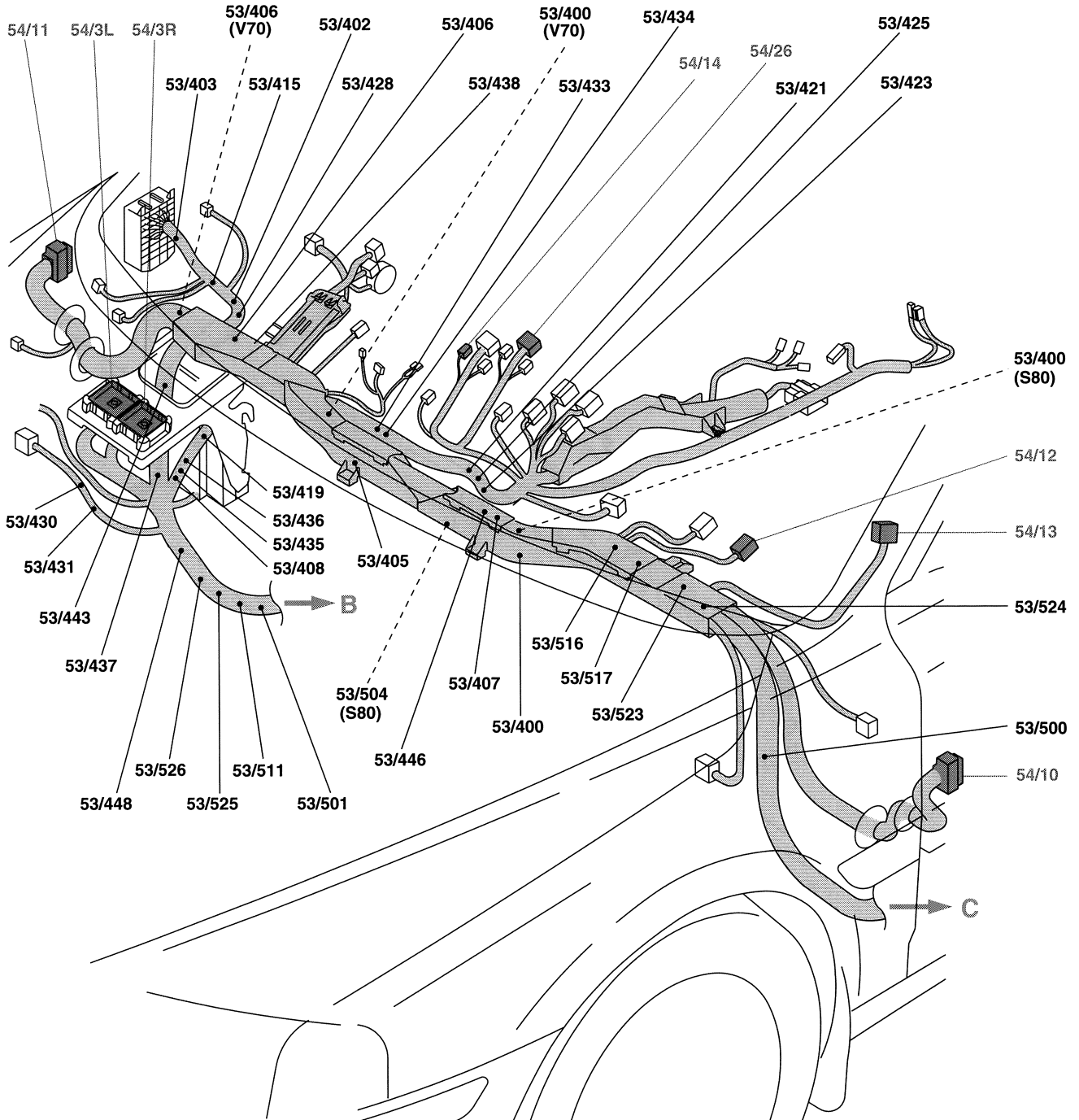


# Cable harness routing in vehicle S80/V70

## Passenger compartment harness, front section LHD

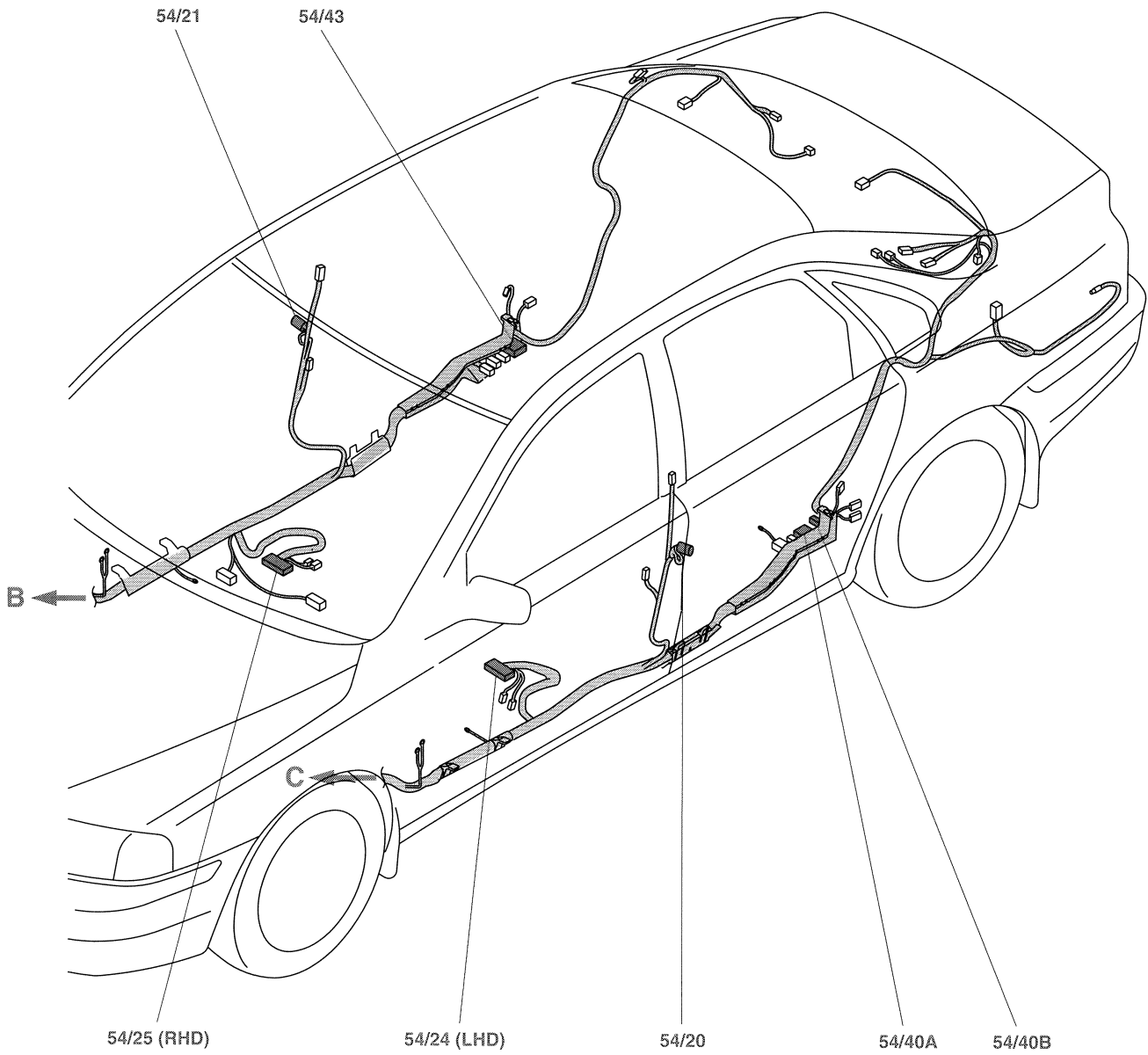


Passenger compartment harness, front section RHD

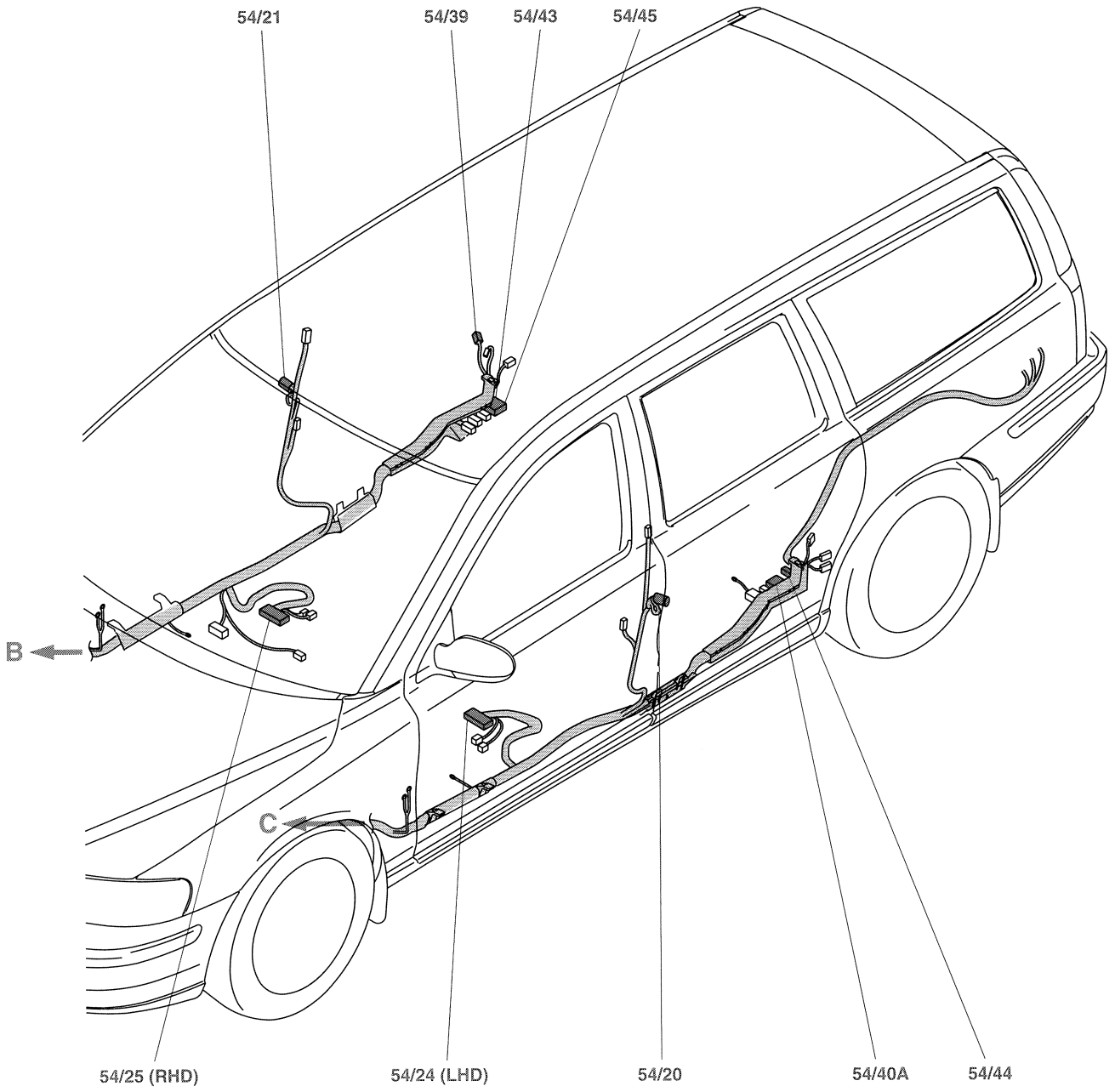


Cable harness routing in vehicle  
S80

Passenger compartment harness, rear section

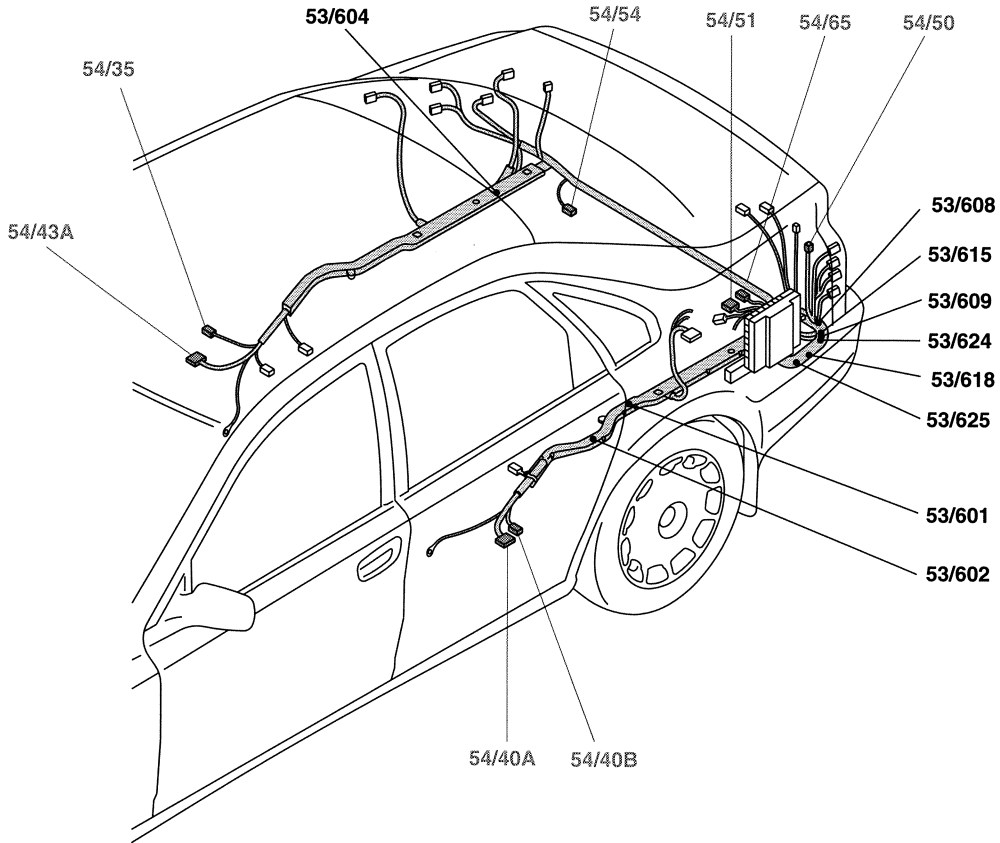


Passenger compartment harness, rear section

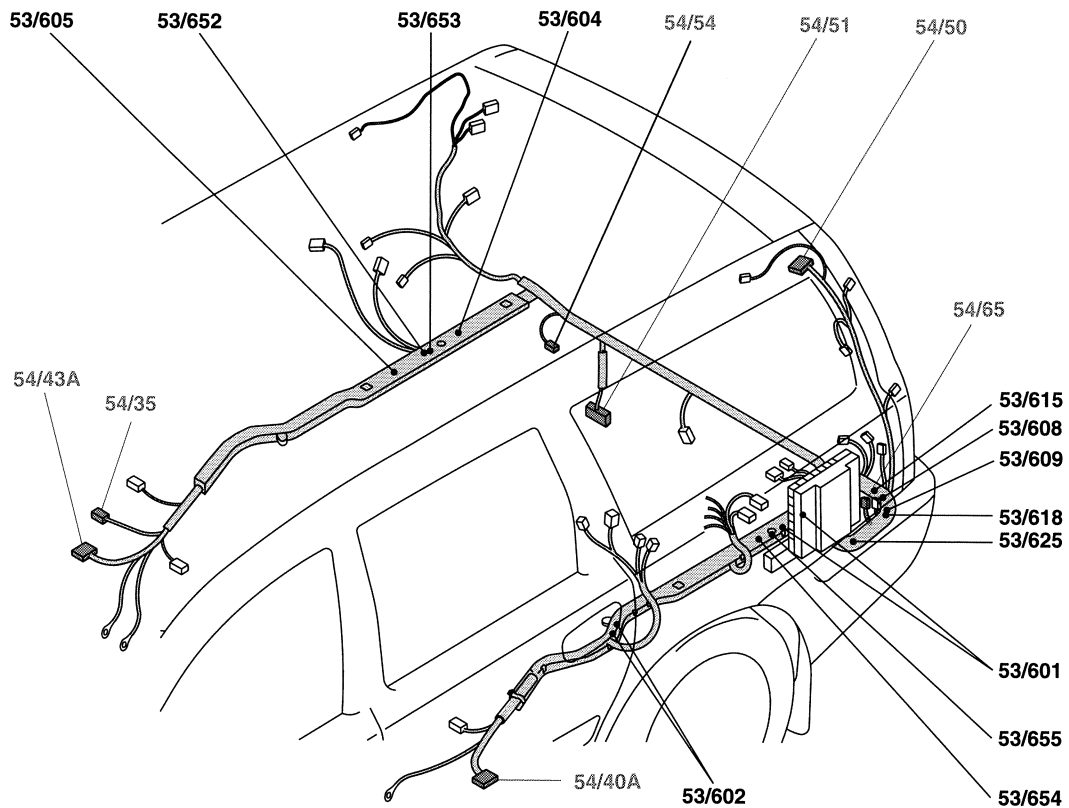


# Cable harness routing in vehicle S80/V70

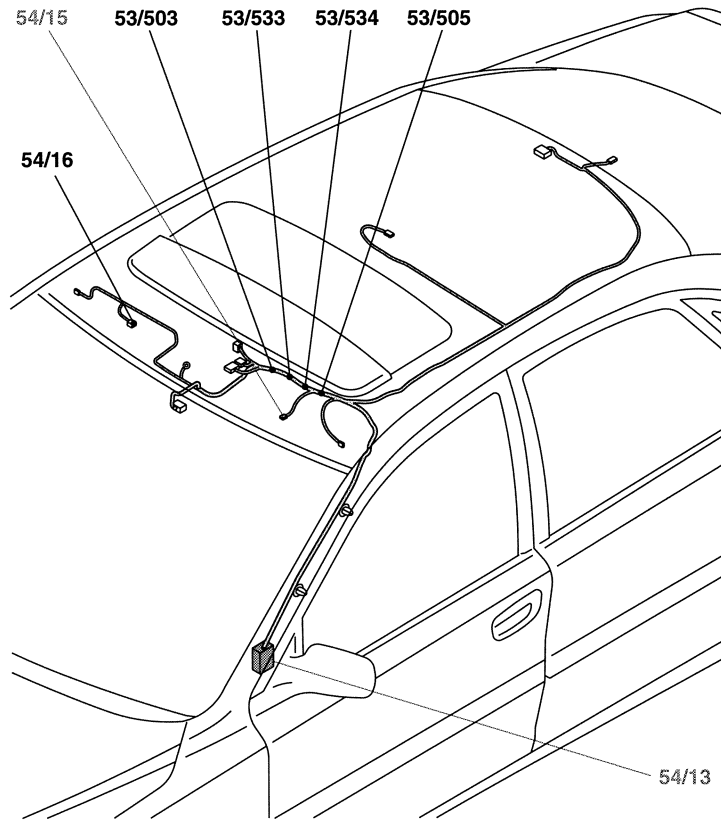
## Cargo compartment harness S80



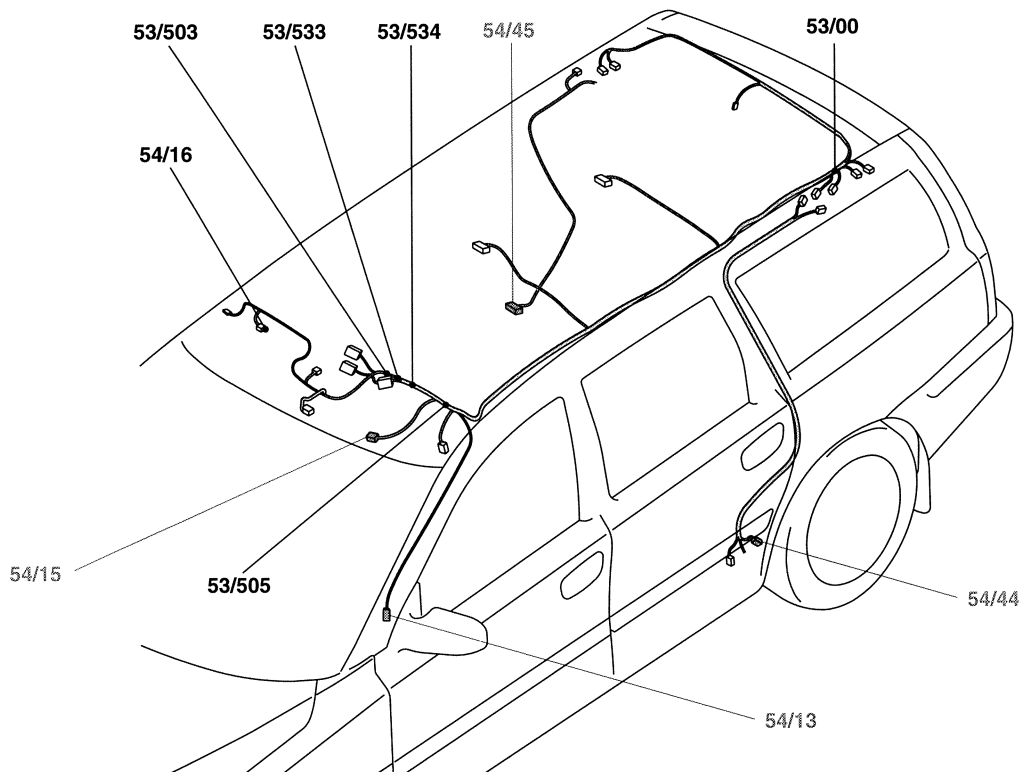
## Cargo compartment harness S70



Roof harness S80

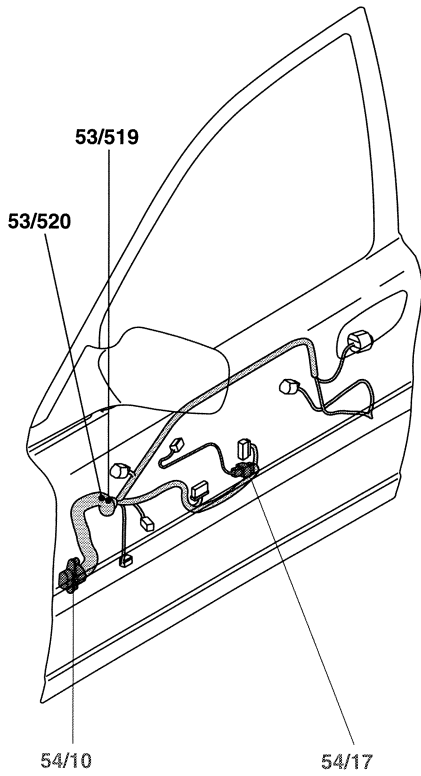


Roof harness S70  
Inflatable curtain

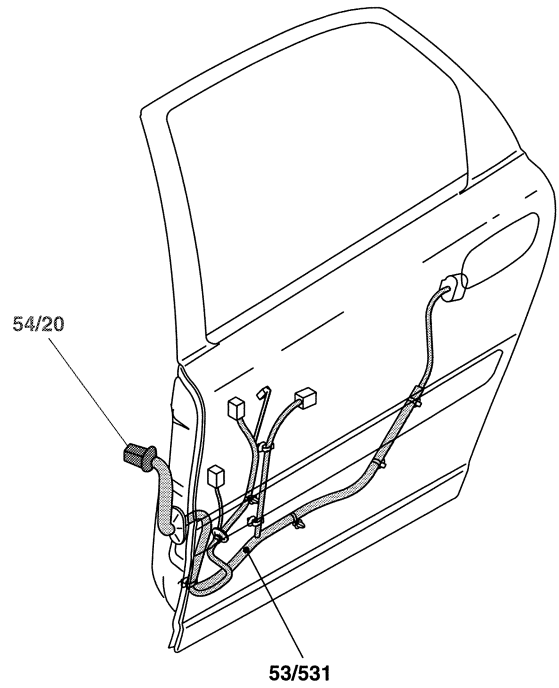


# Cable harness routing in vehicle S80

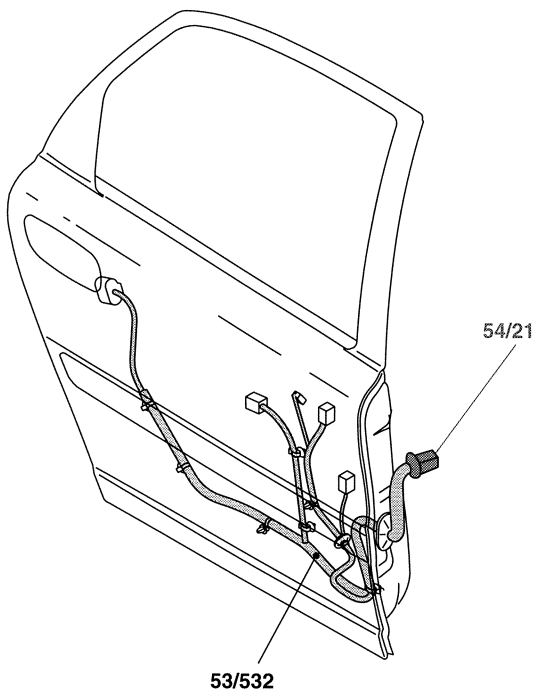
LH front door harness  
LH door panel harness



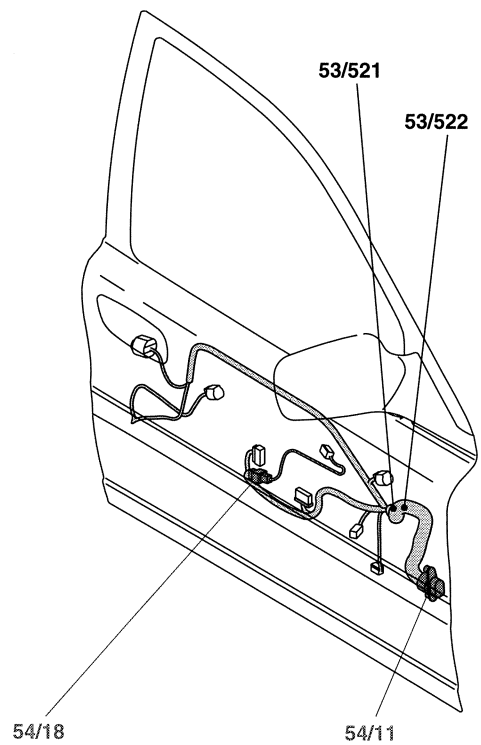
LH rear door harness



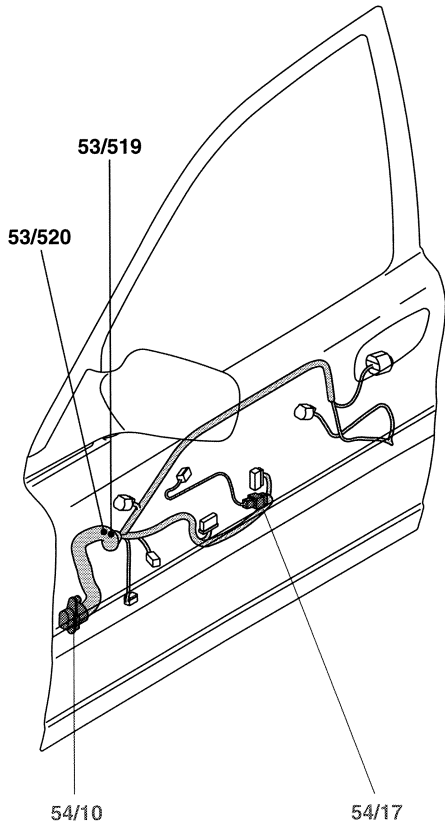
RH rear door harness



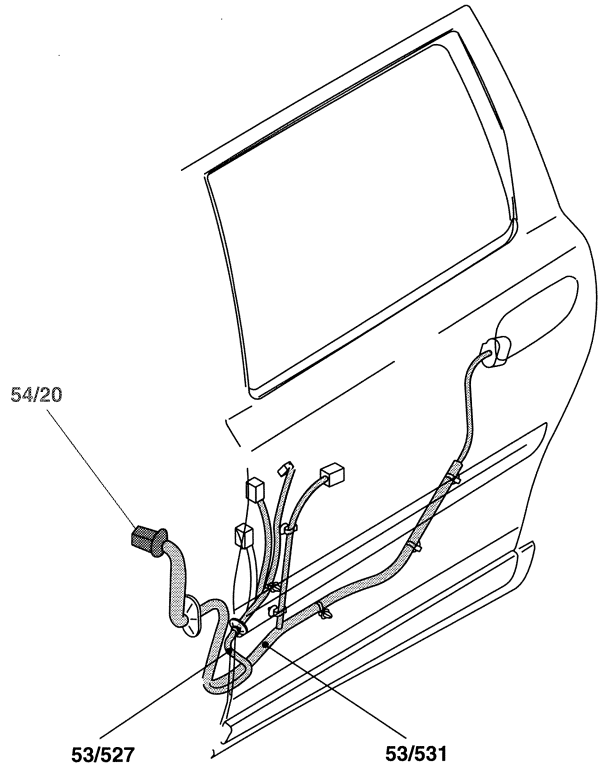
RH front door harness  
RH door panel harness



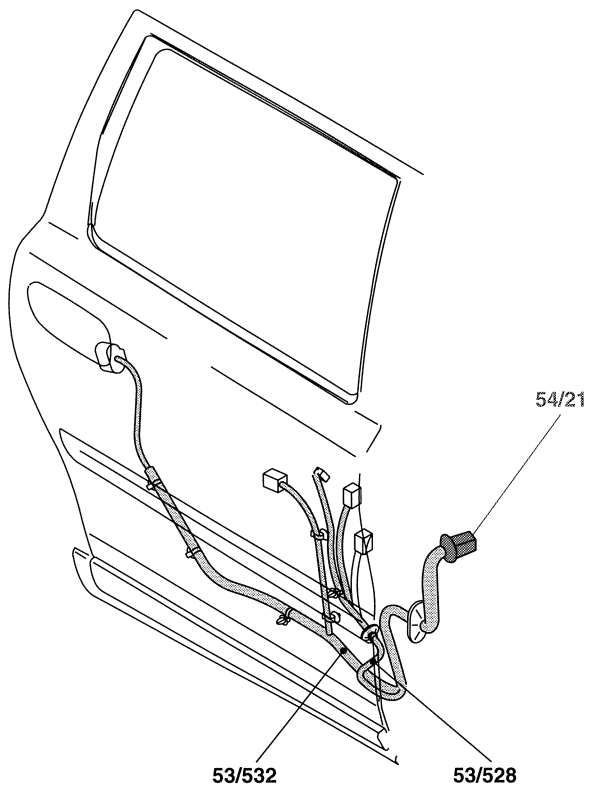
LH front door harness  
LH door panel harness



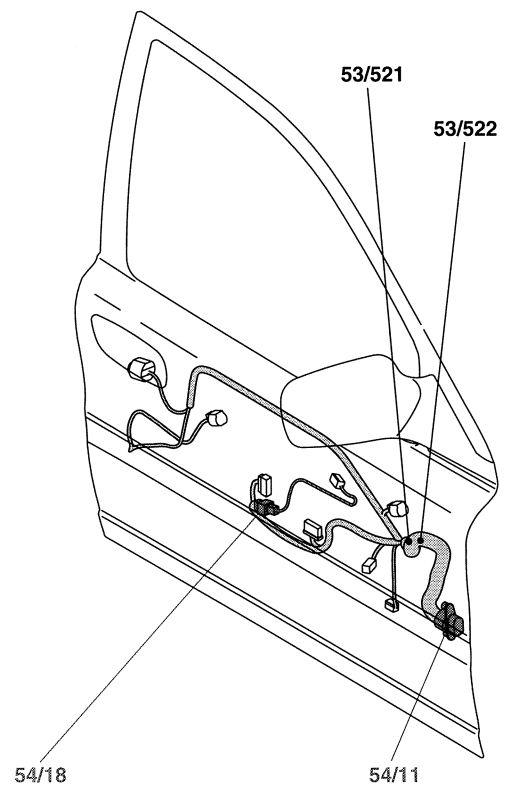
LH rear door harness



RH rear door harness



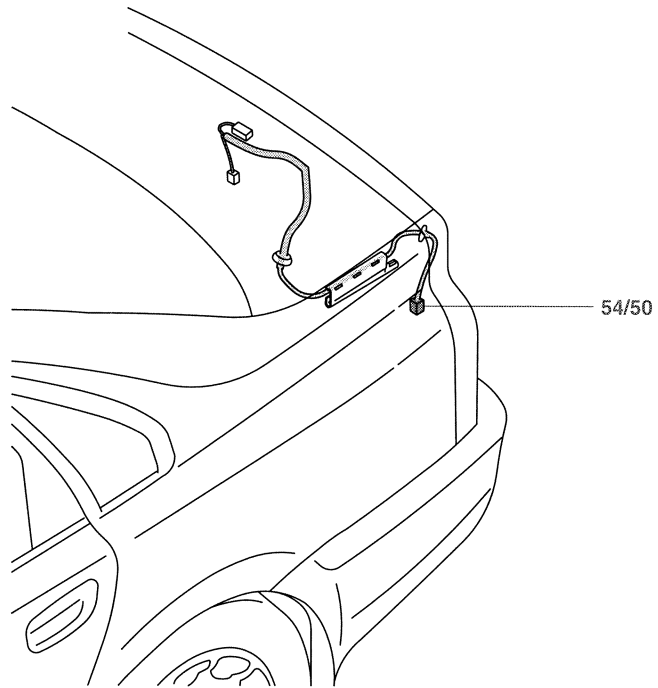
RH front door harness  
RH door panel harness



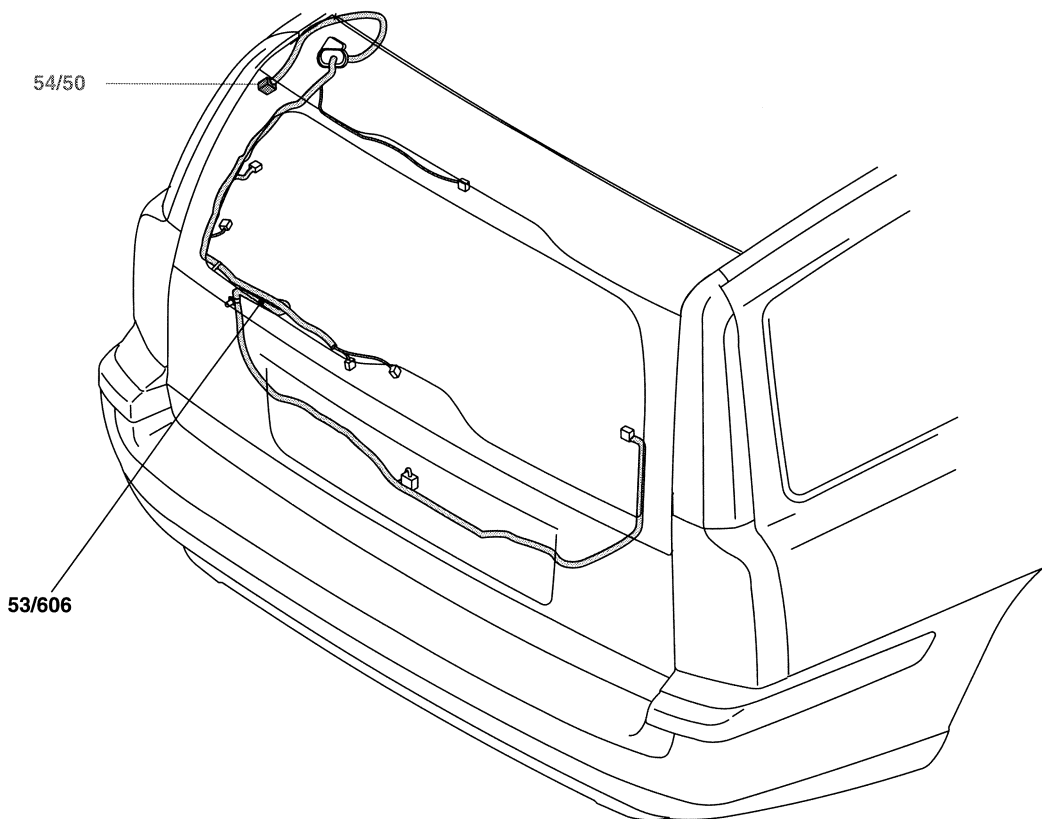


**Cable harness routing in vehicle  
S80/V70**

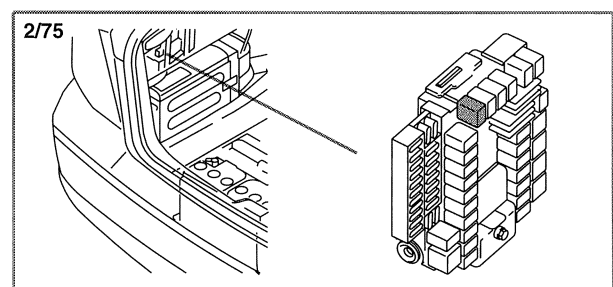
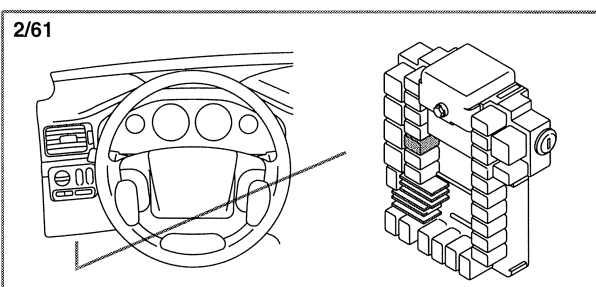
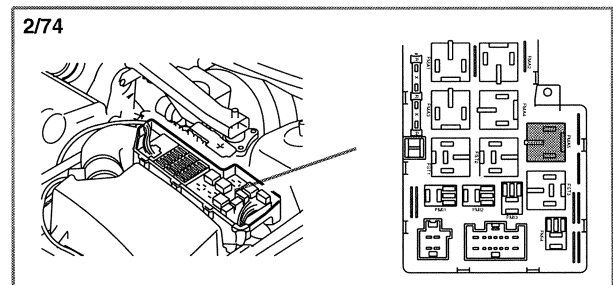
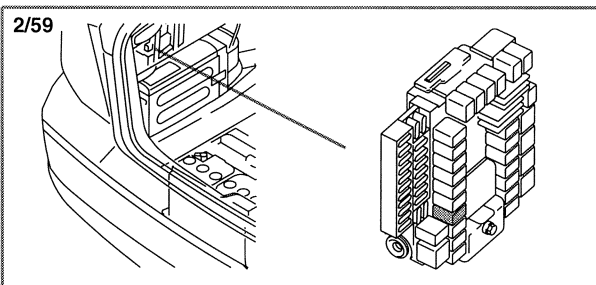
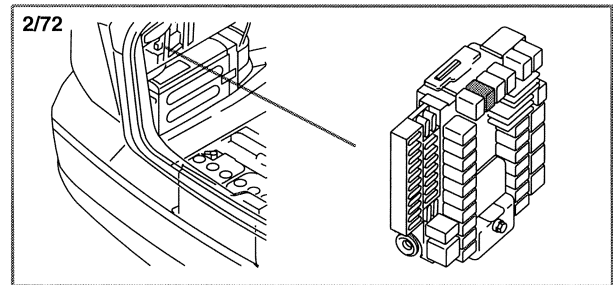
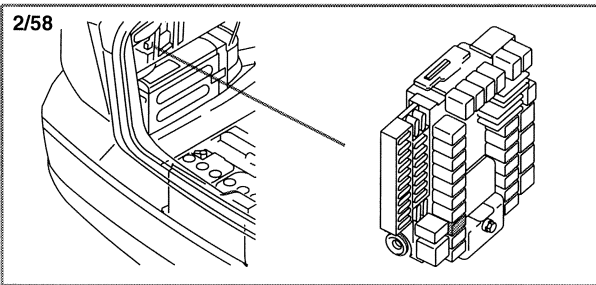
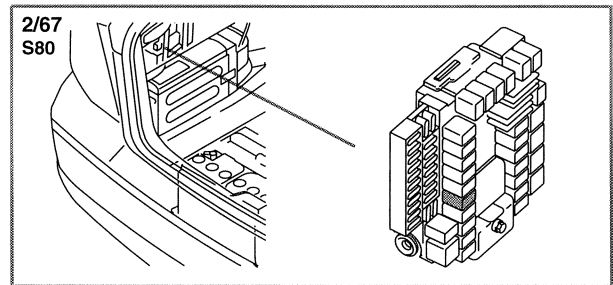
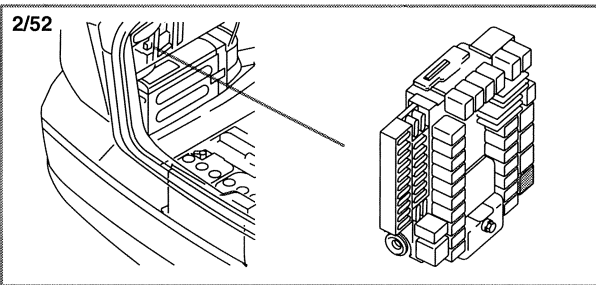
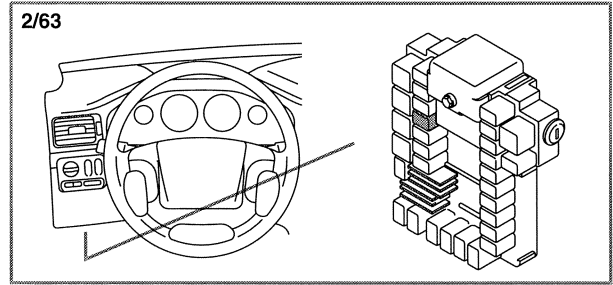
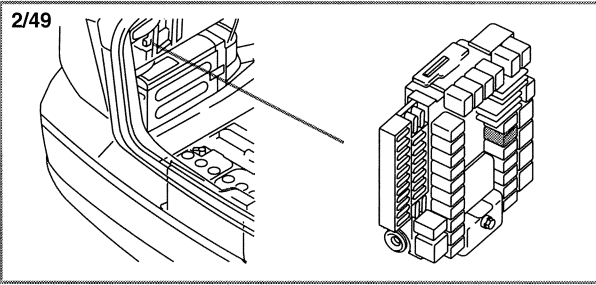
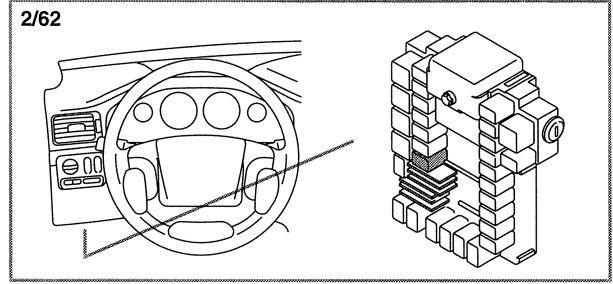
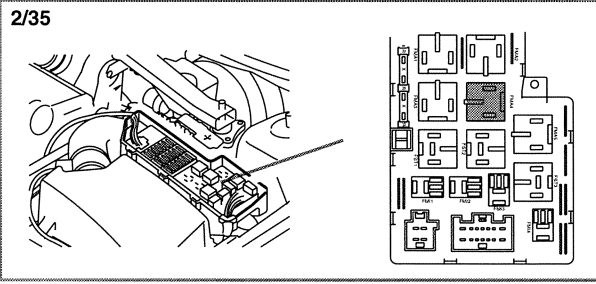
**Trunk lid harness S80**

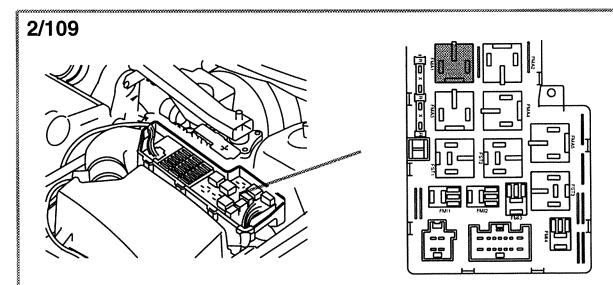
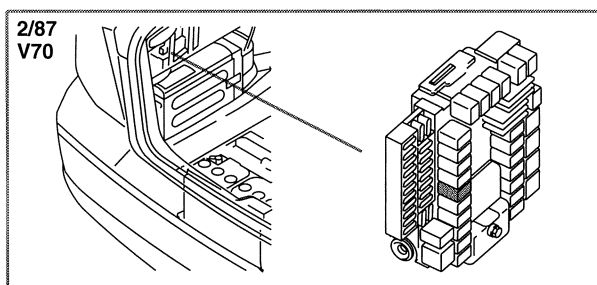
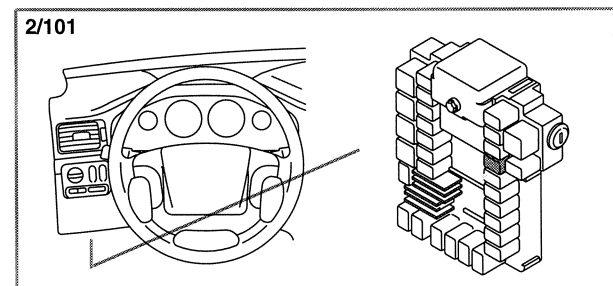
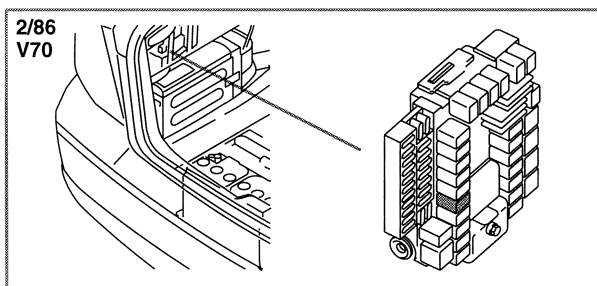
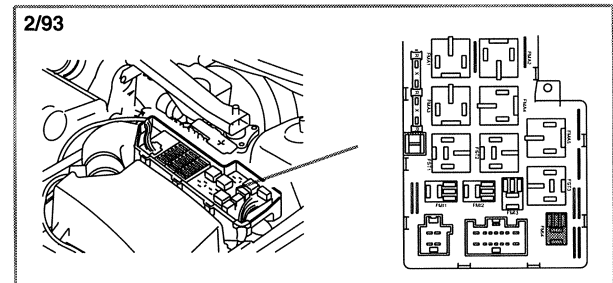
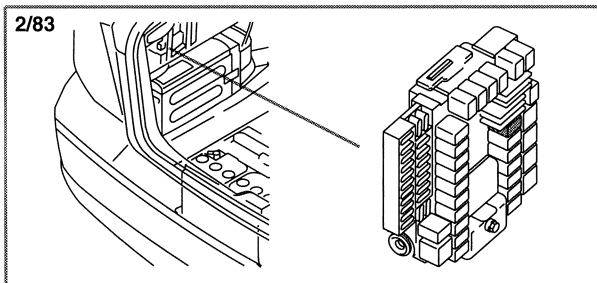
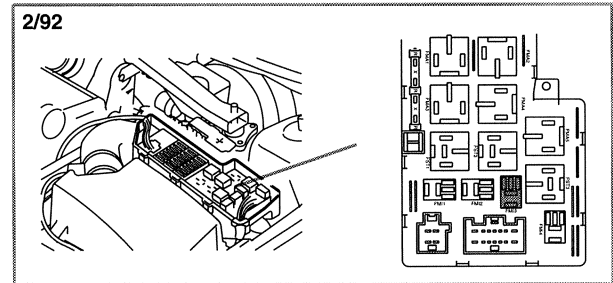
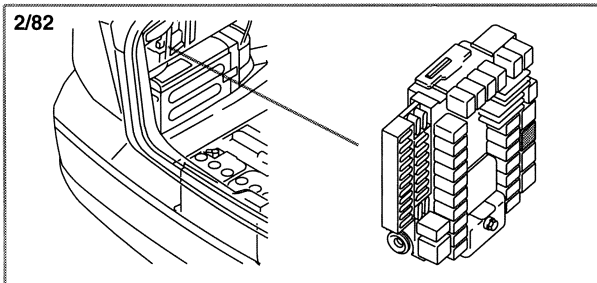
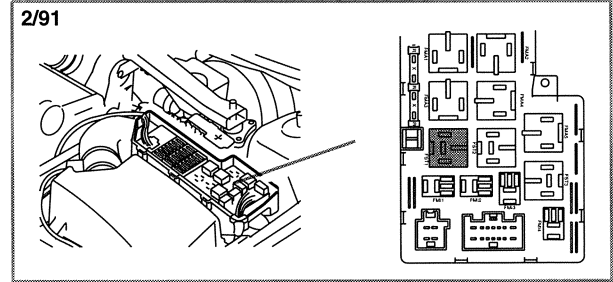
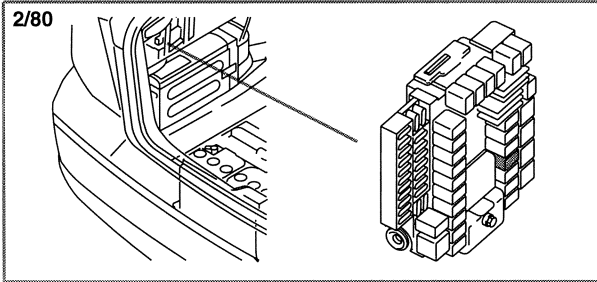
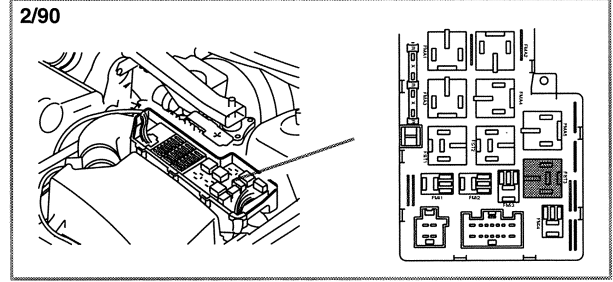
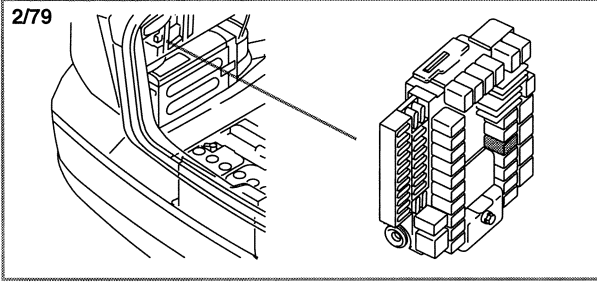


**Trunk lid harness S70**

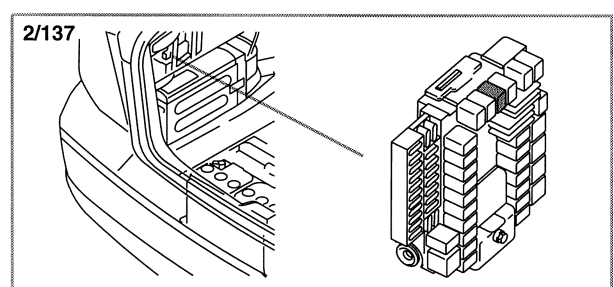
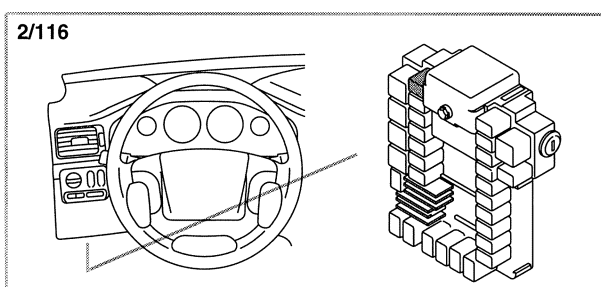
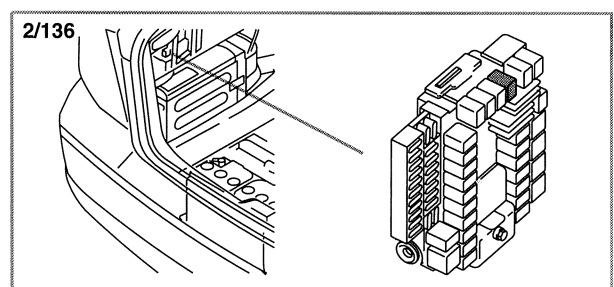
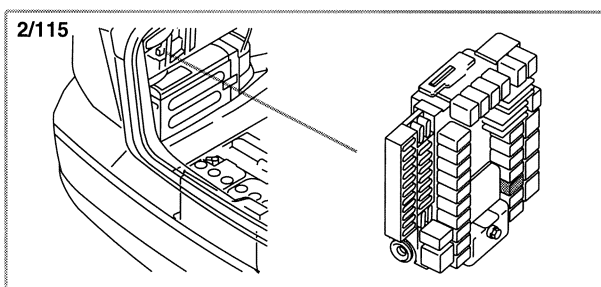
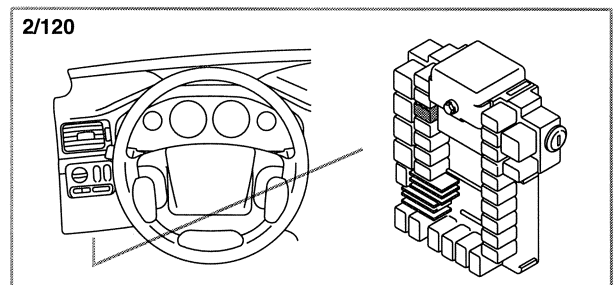
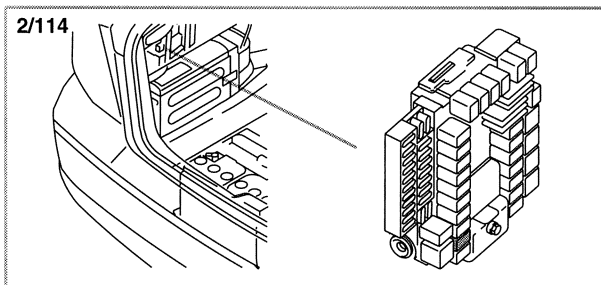
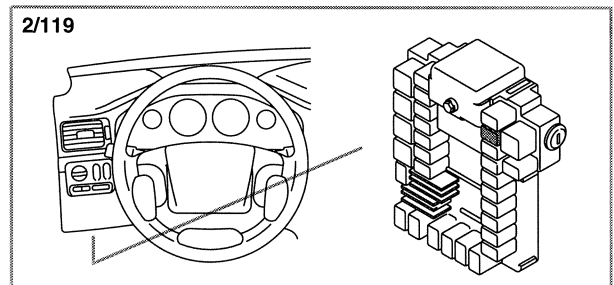
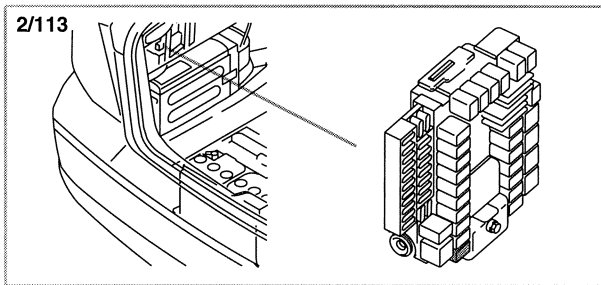
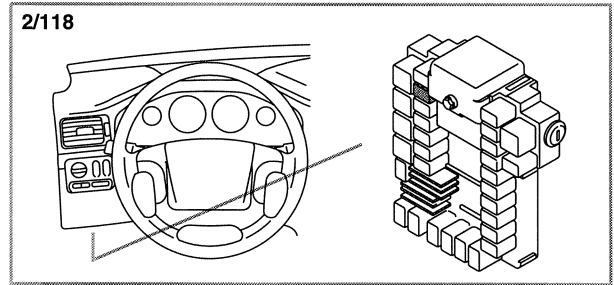
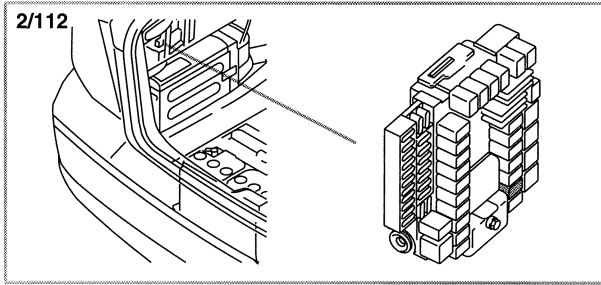
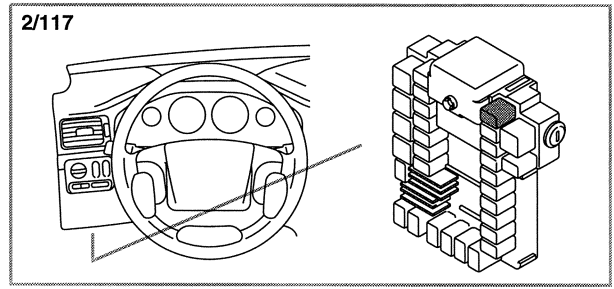
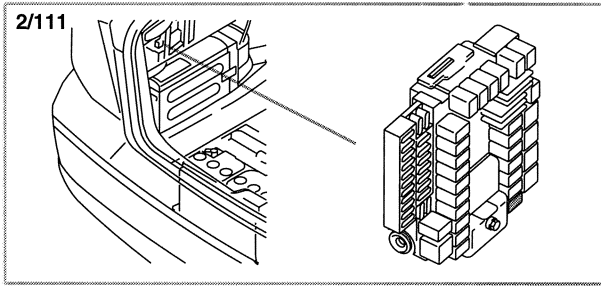


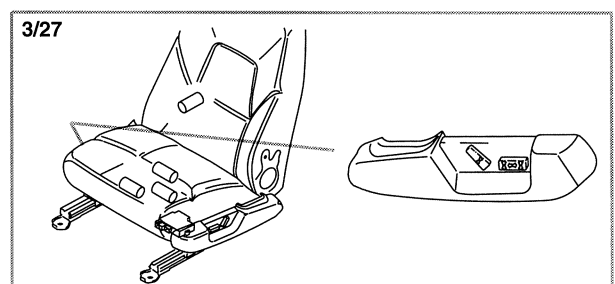
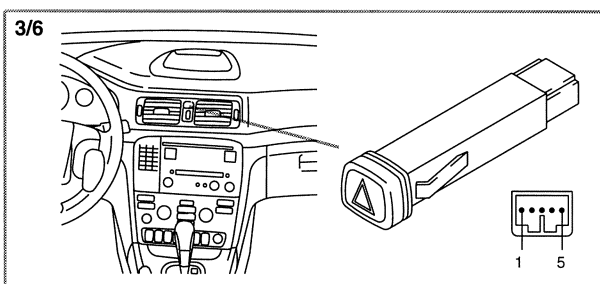
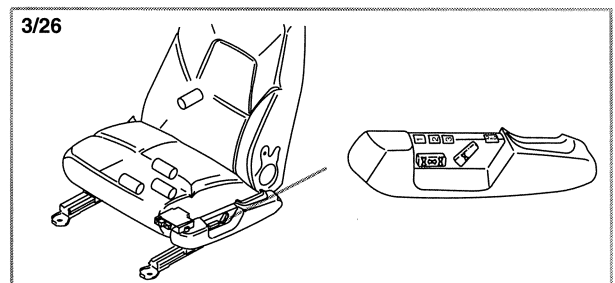
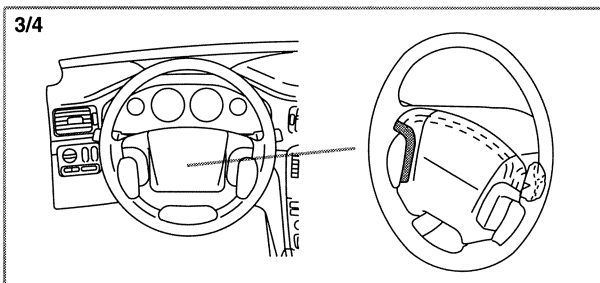
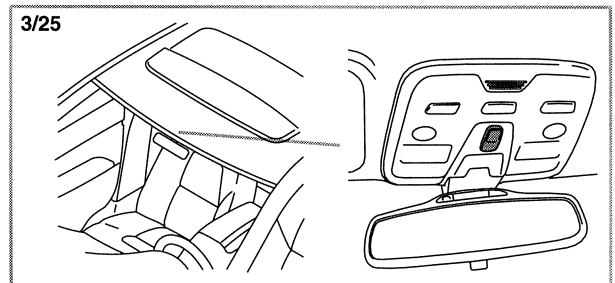
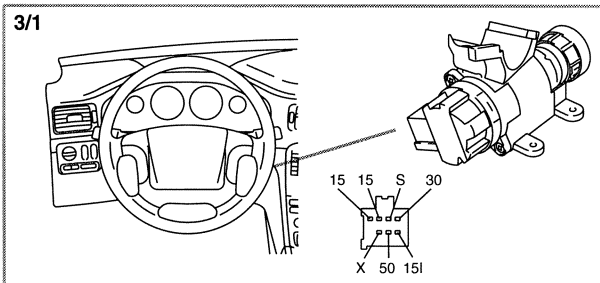
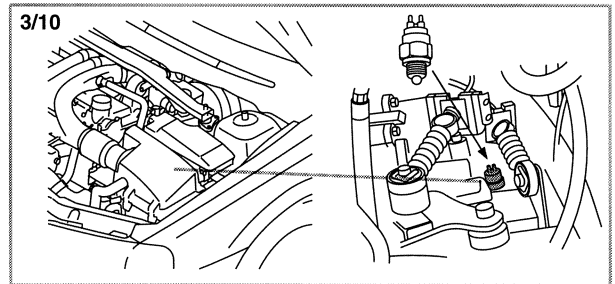
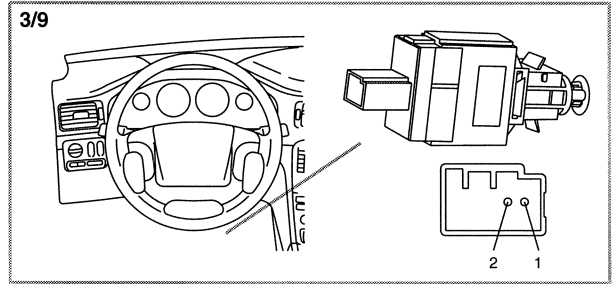
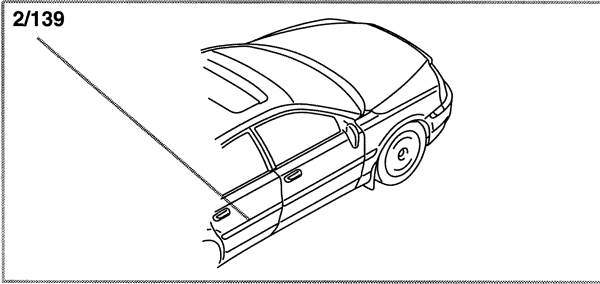
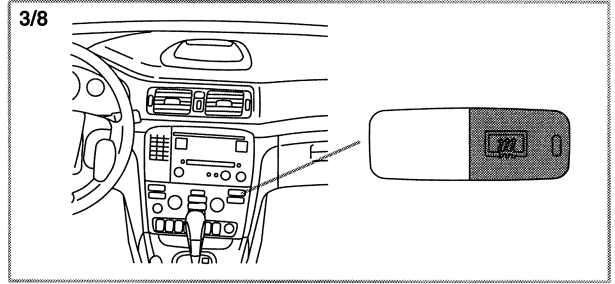
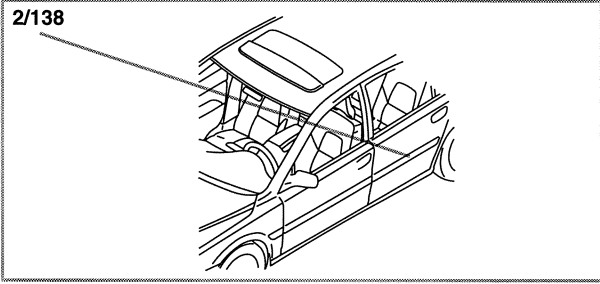
# Component illustrations 2/35 - 2/75



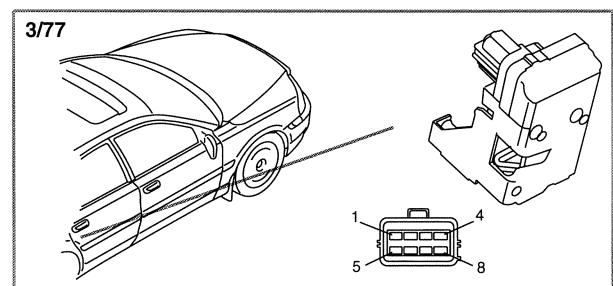
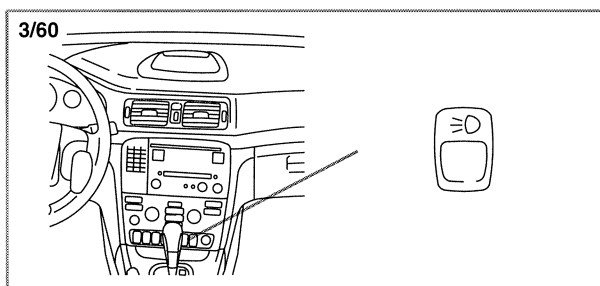
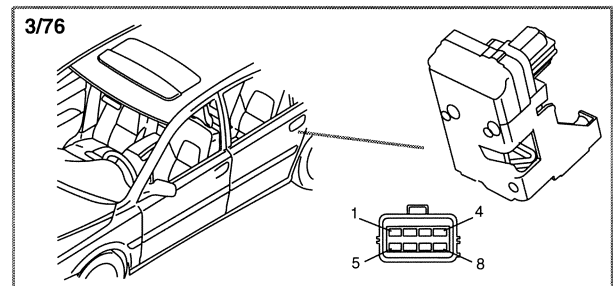
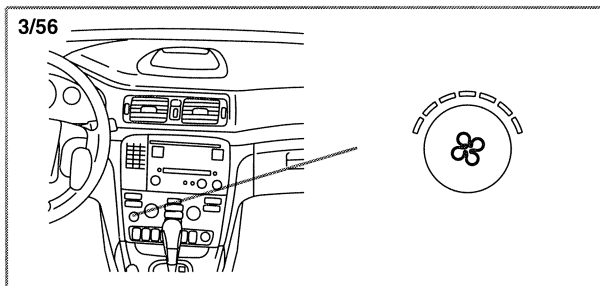
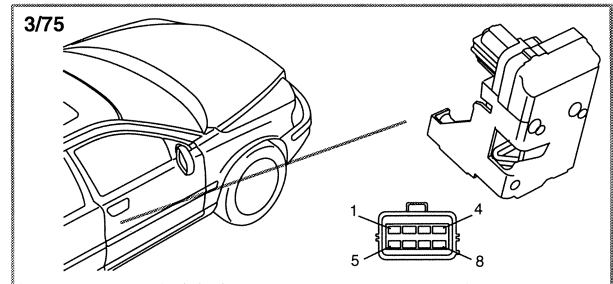
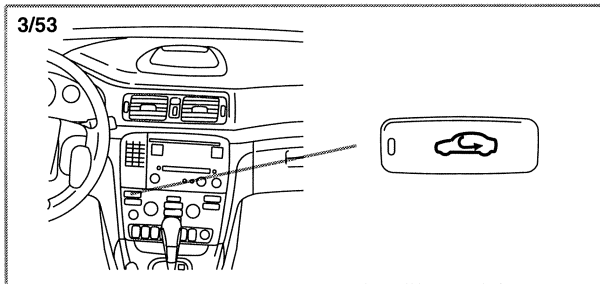
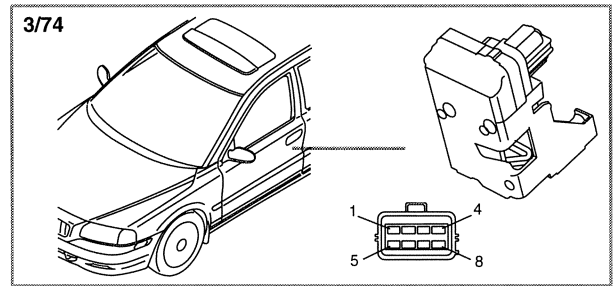
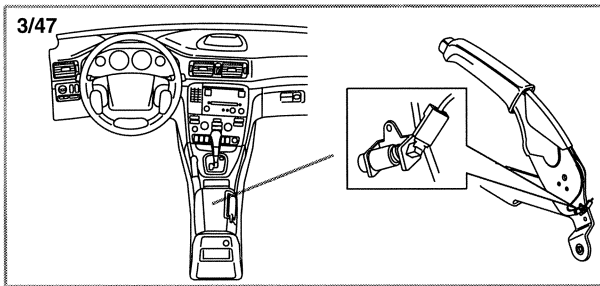
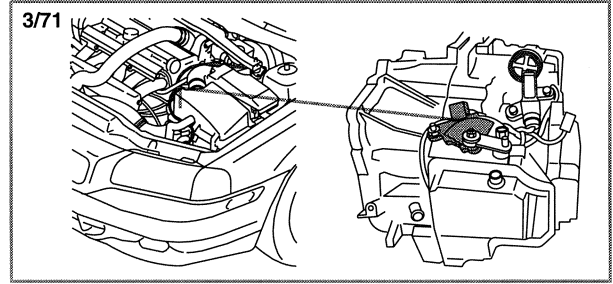
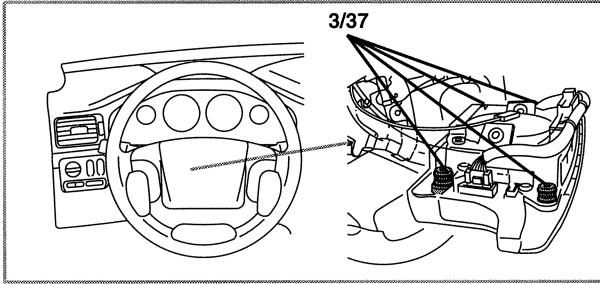
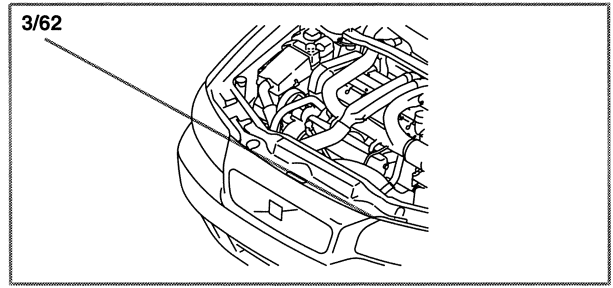
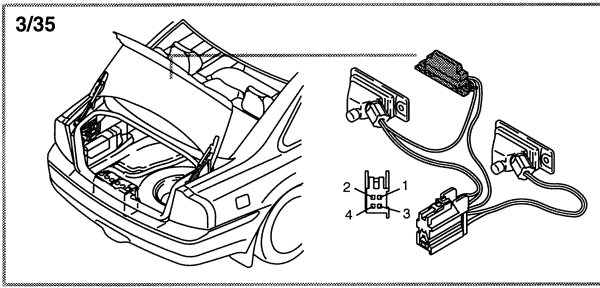


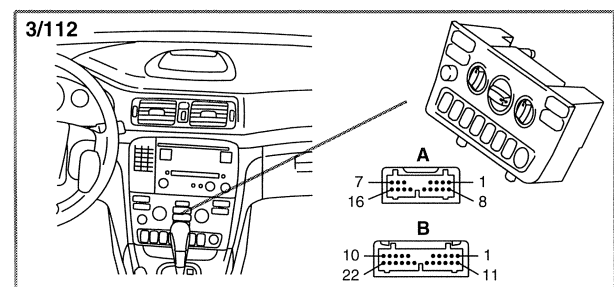
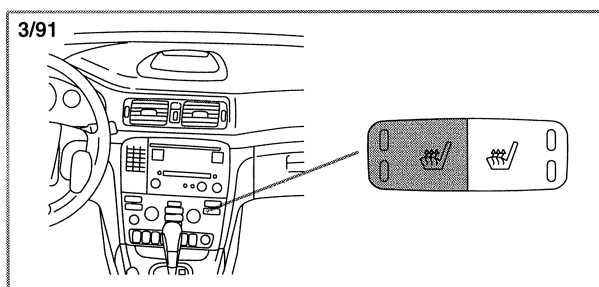
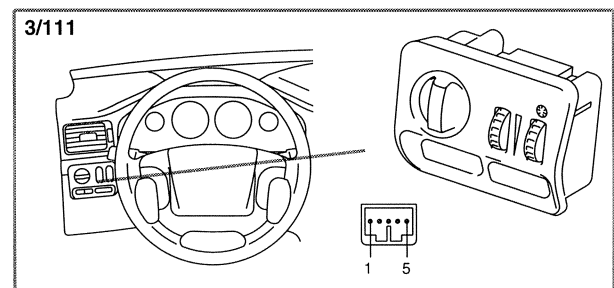
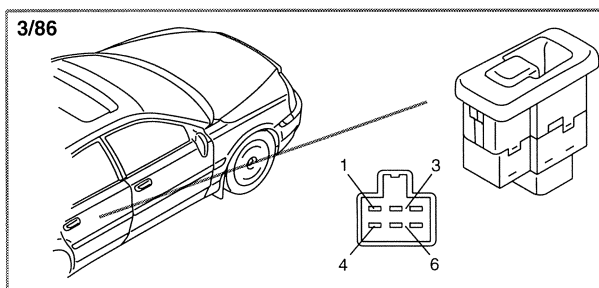
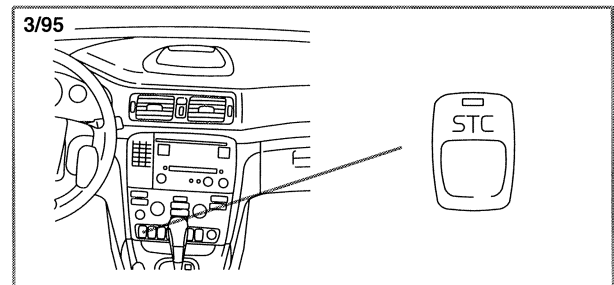
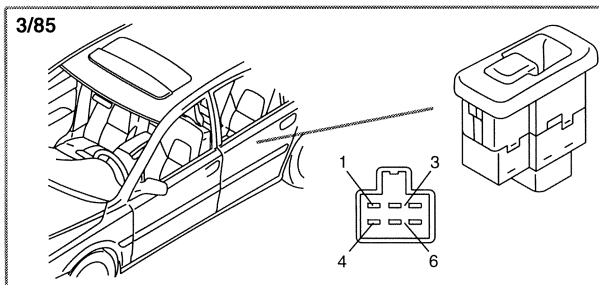
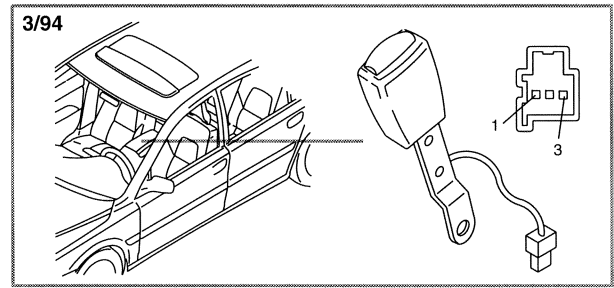
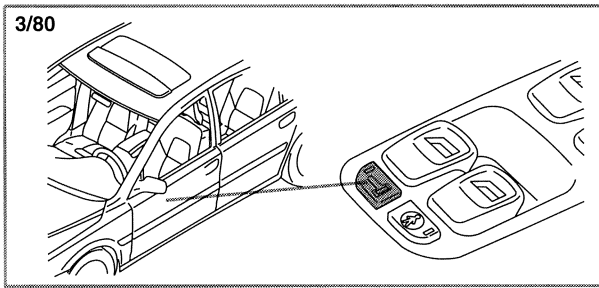
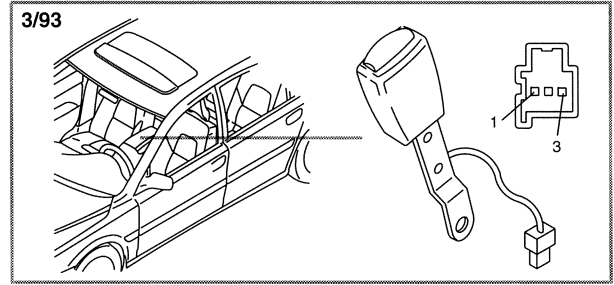
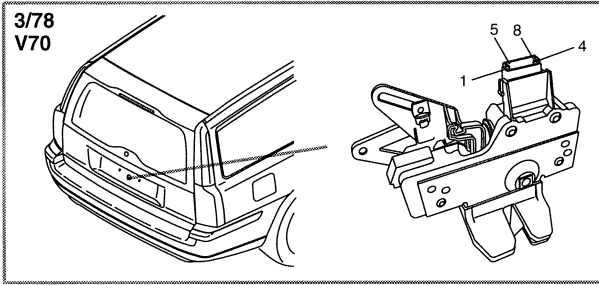
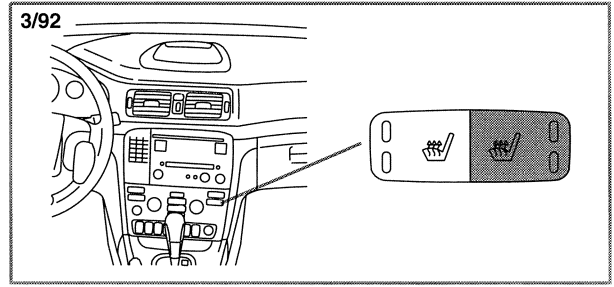
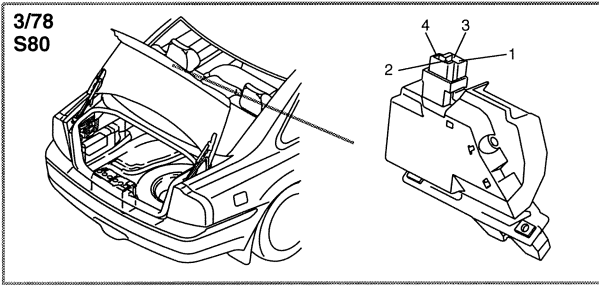
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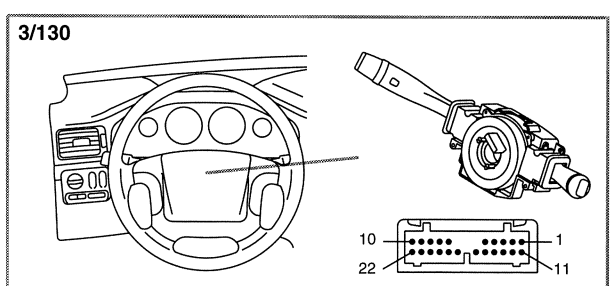
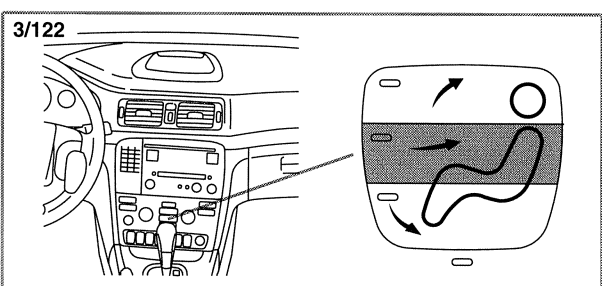
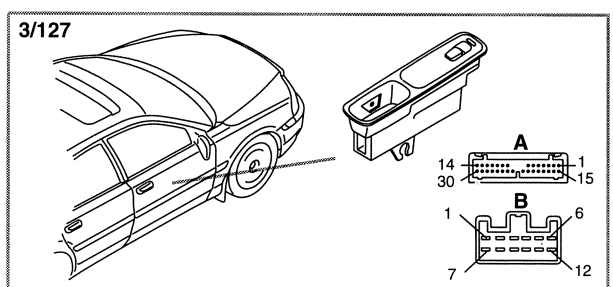
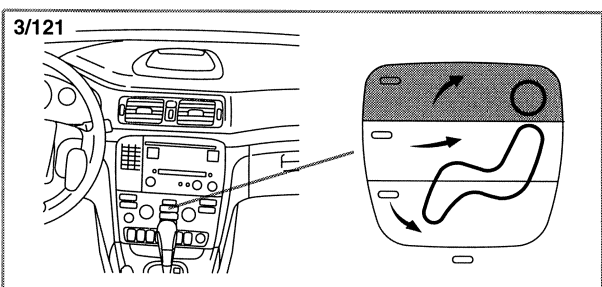
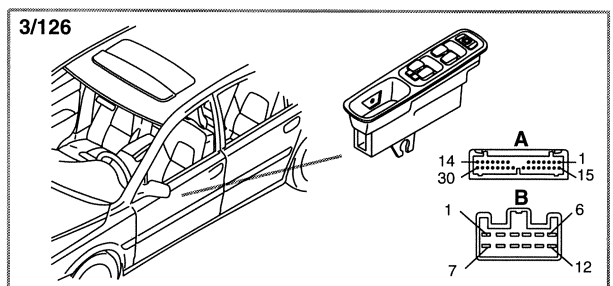
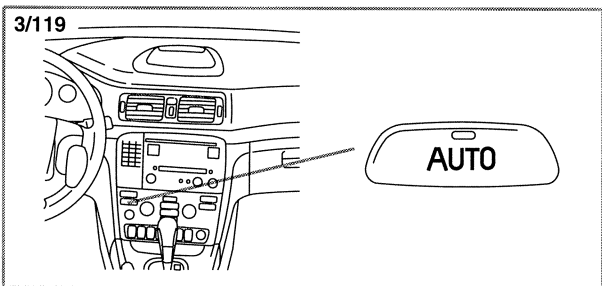
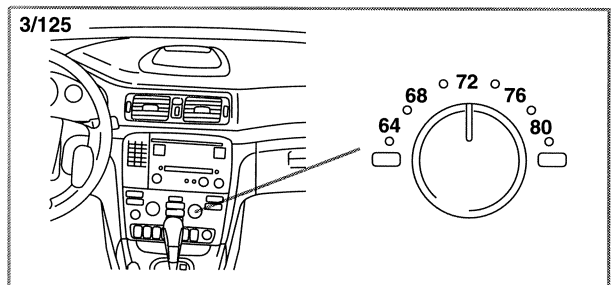
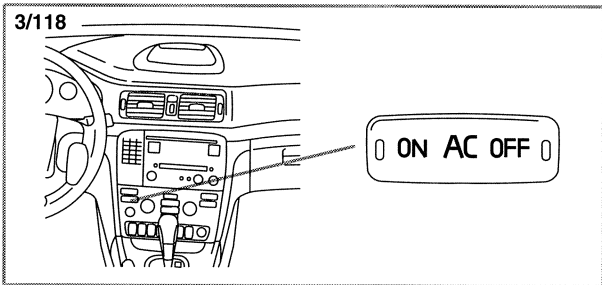
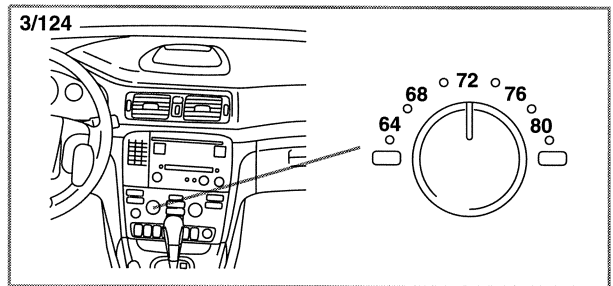
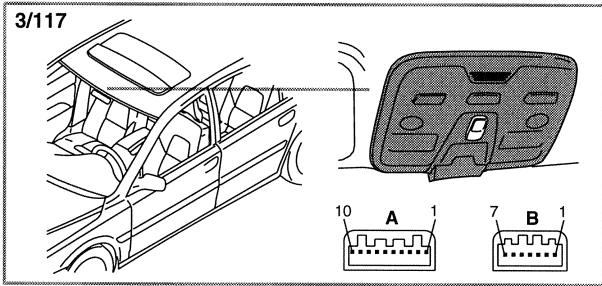
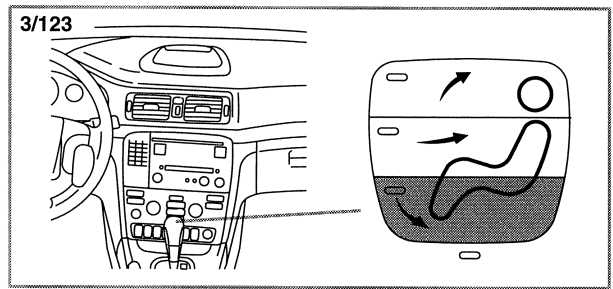
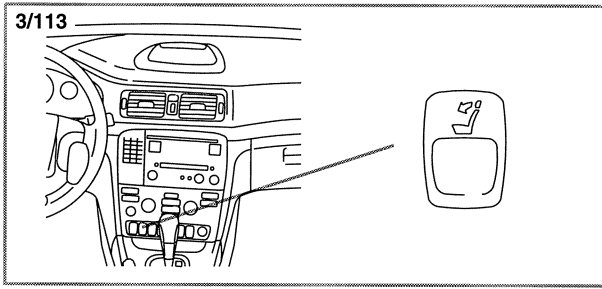


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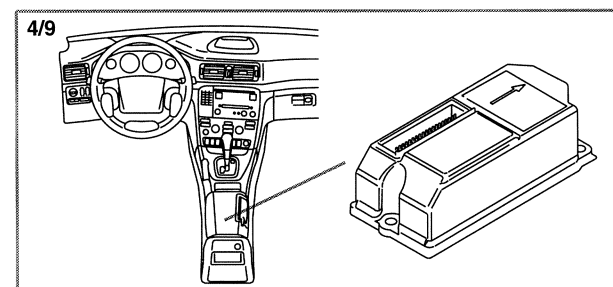
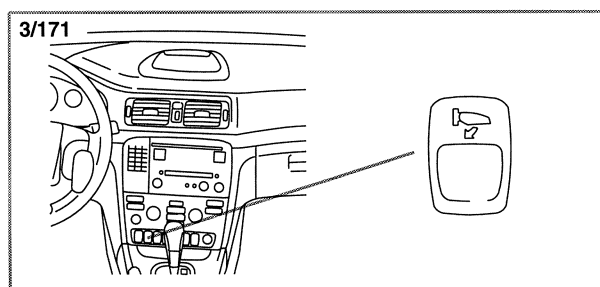
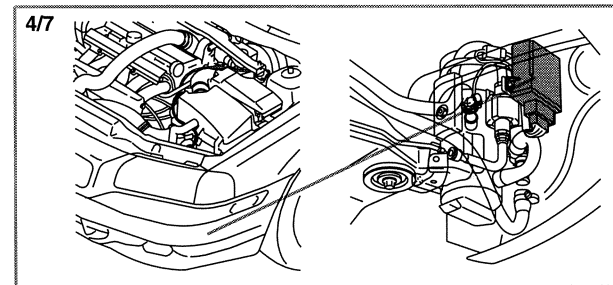
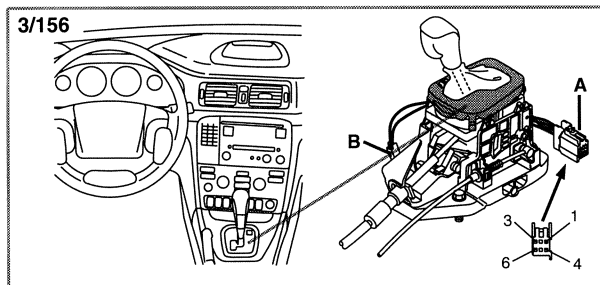
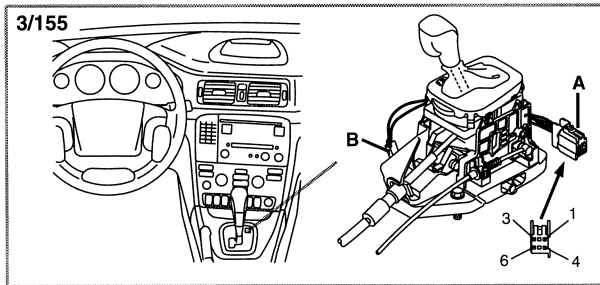
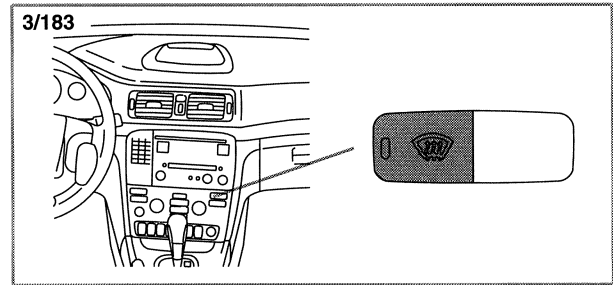
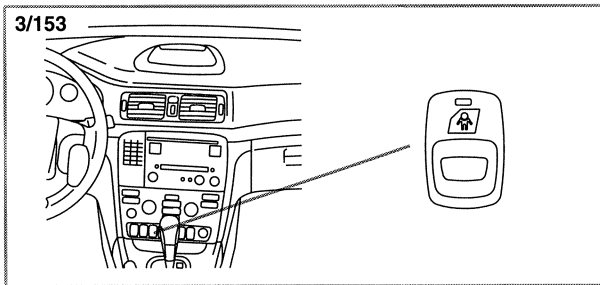
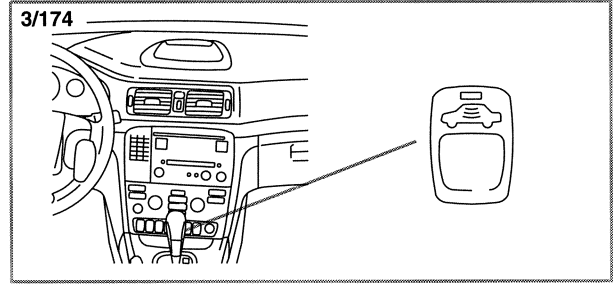
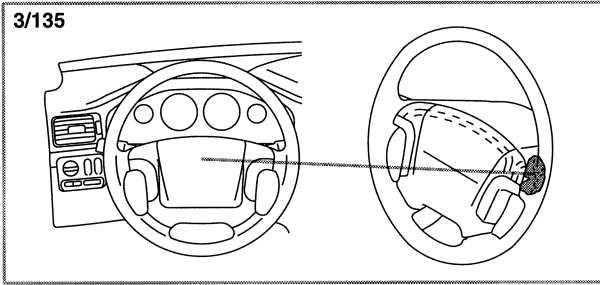
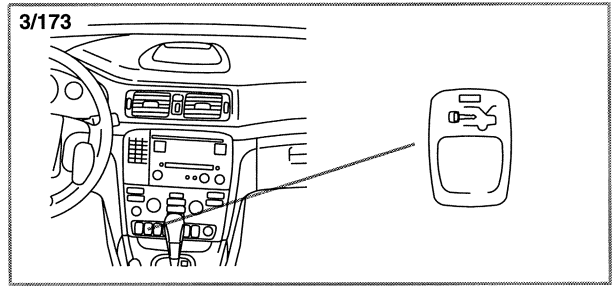
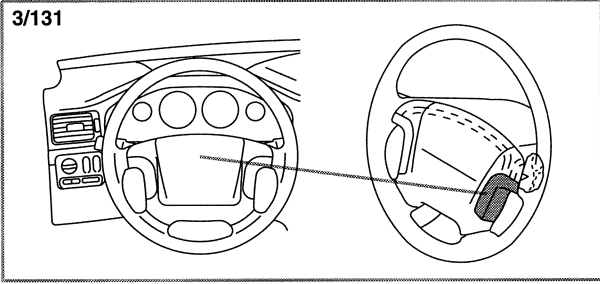




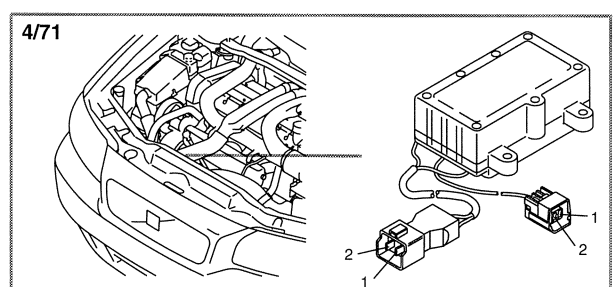
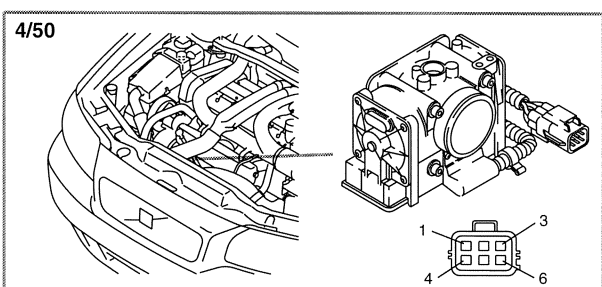
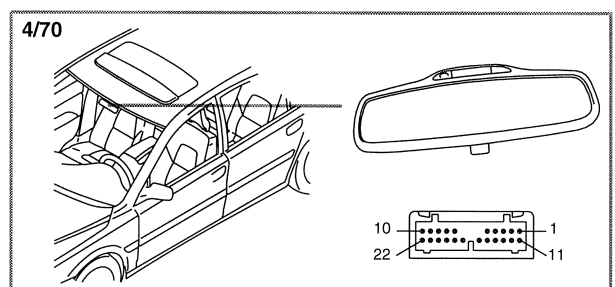
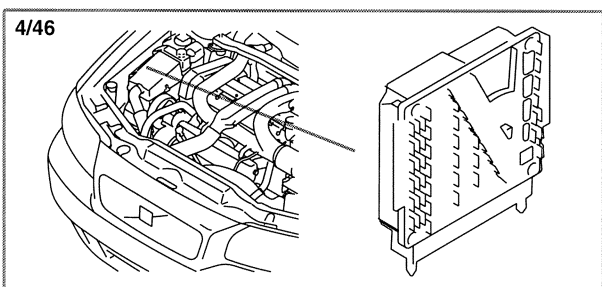
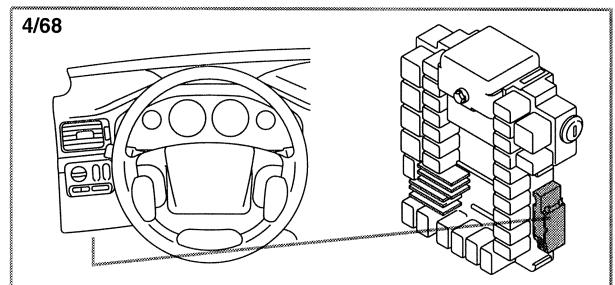
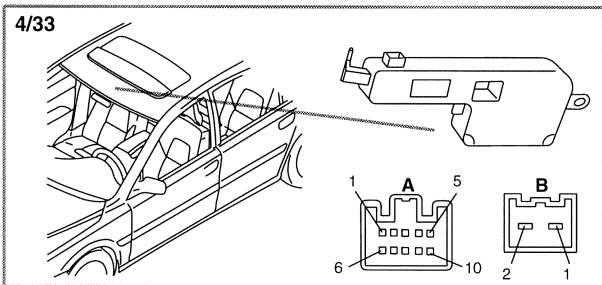
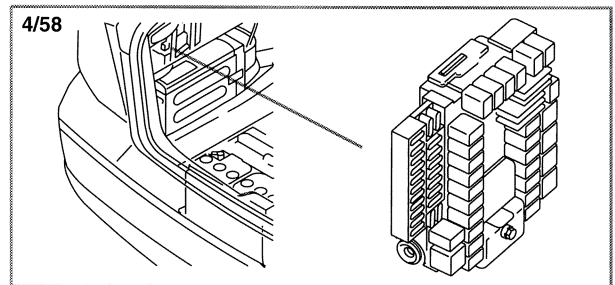
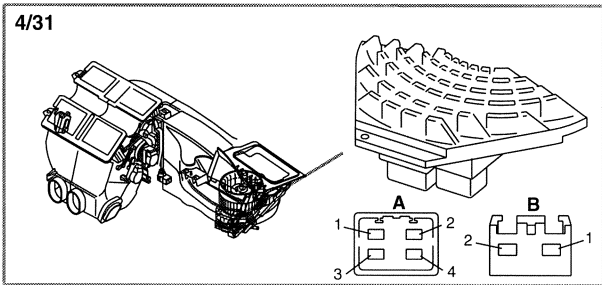
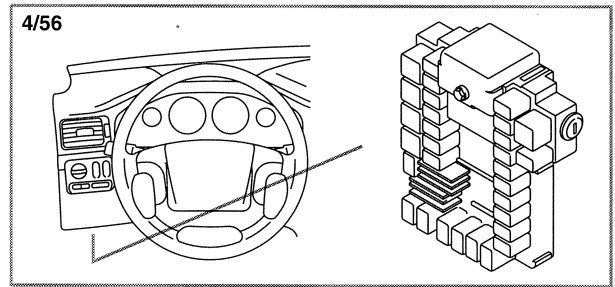
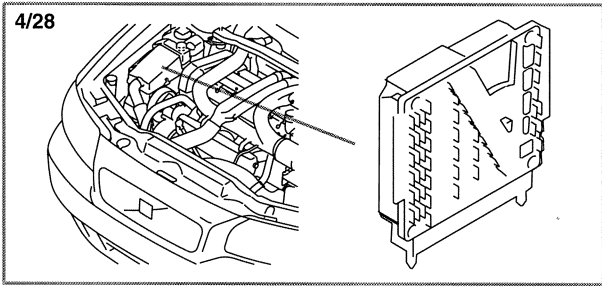
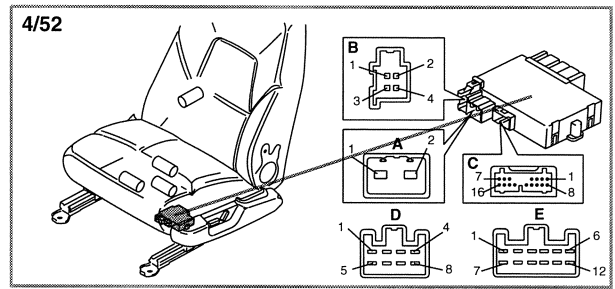
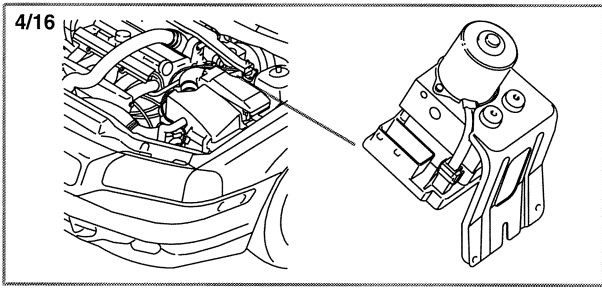
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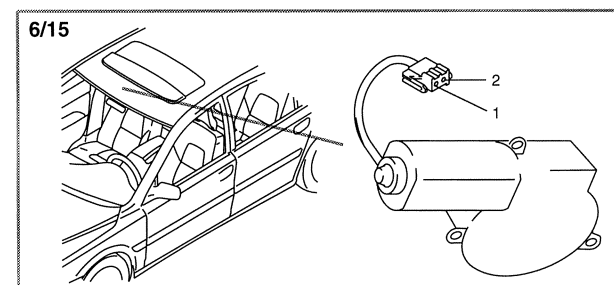
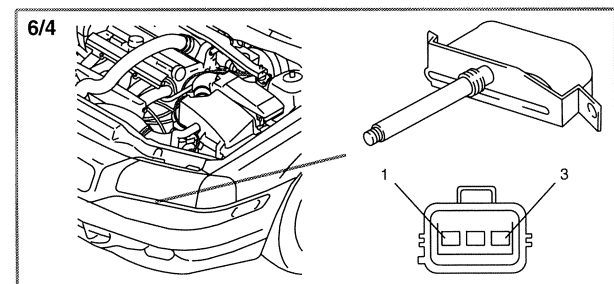
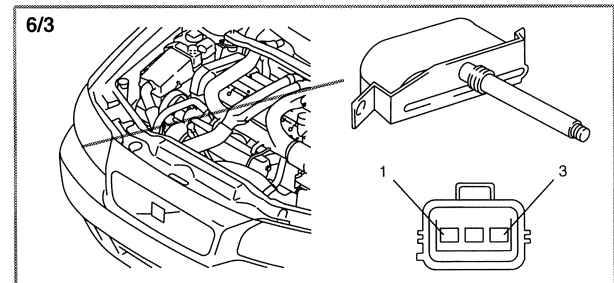
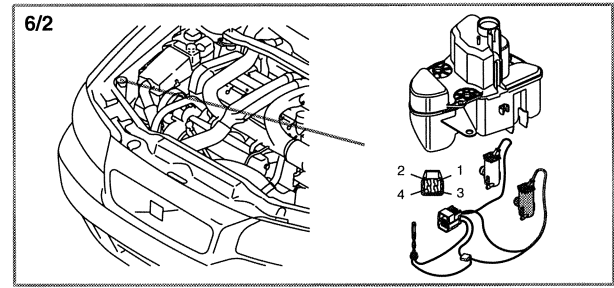
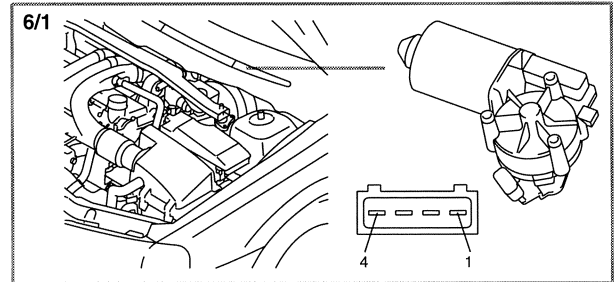
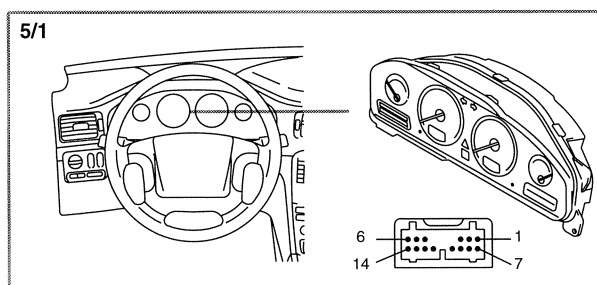
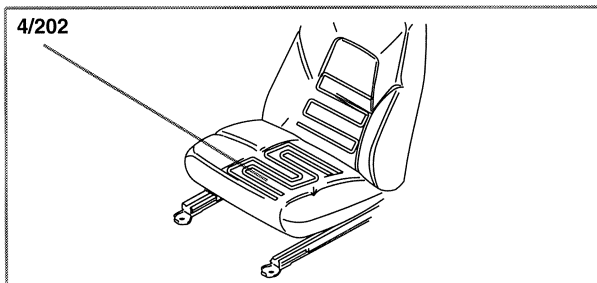
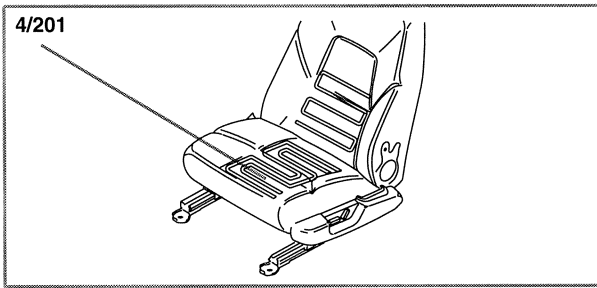
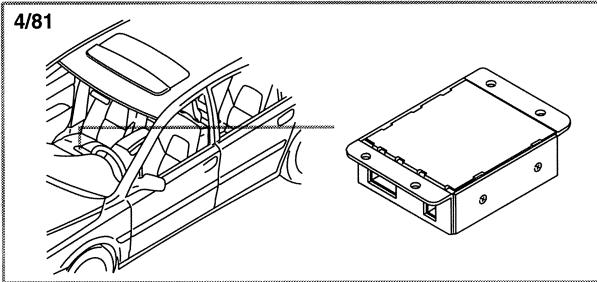
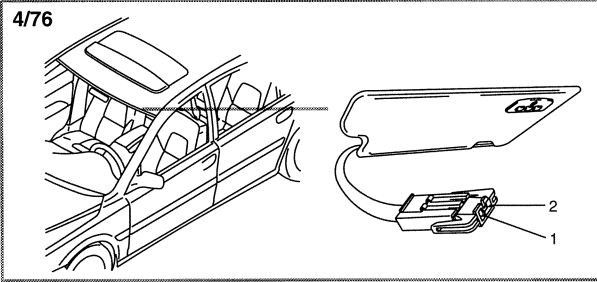




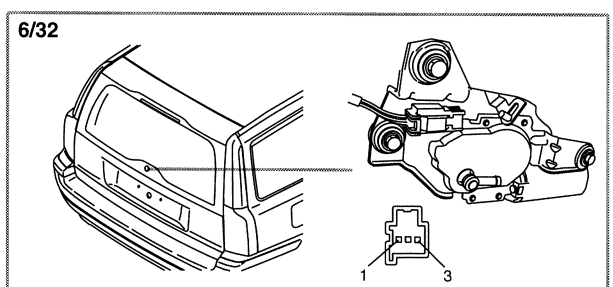
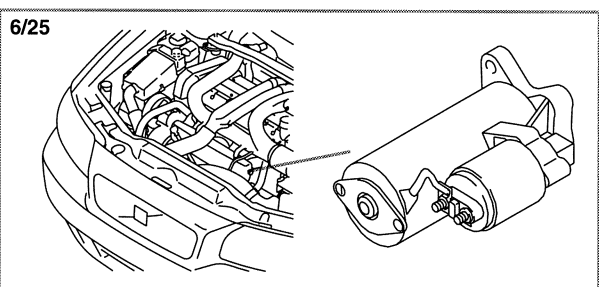
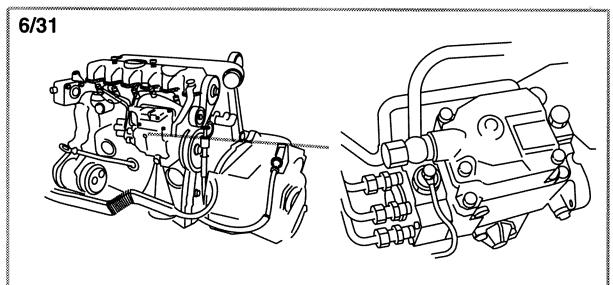
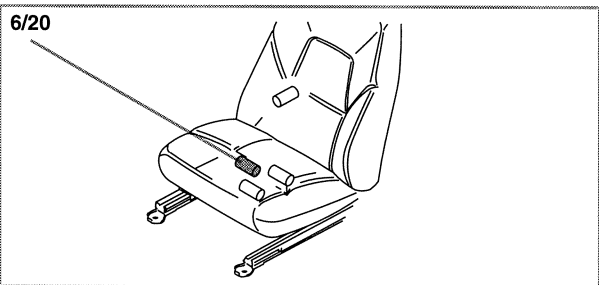
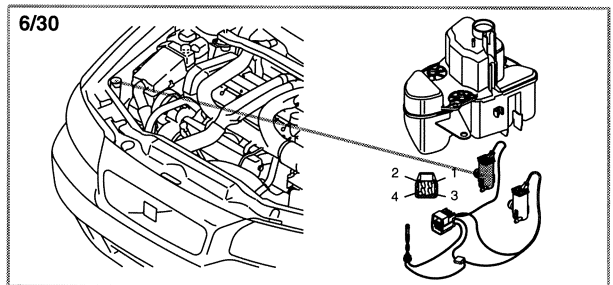
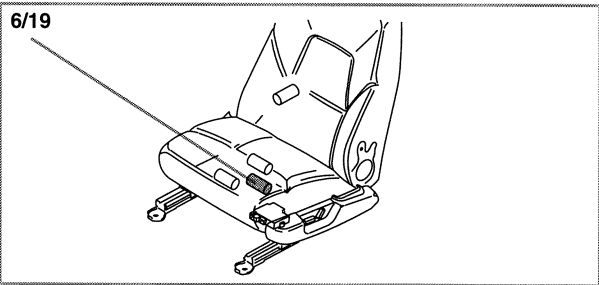
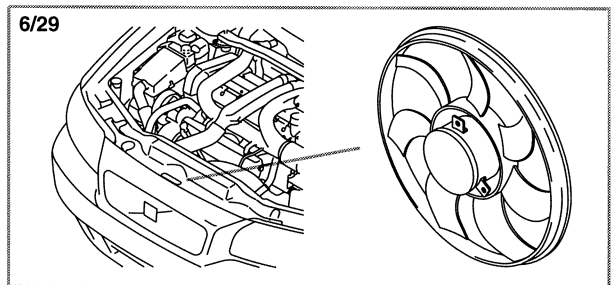
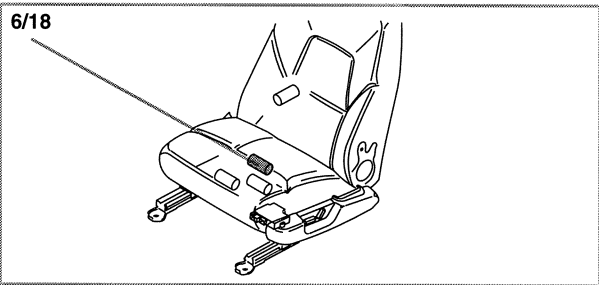
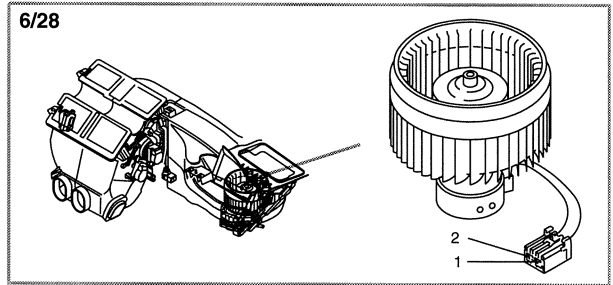
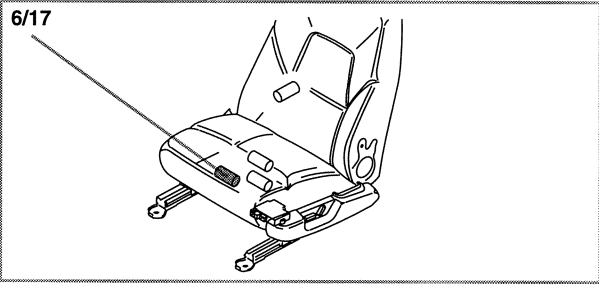
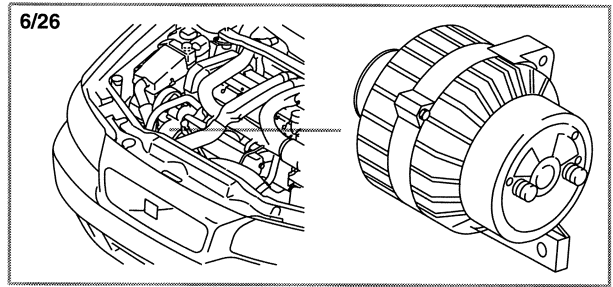
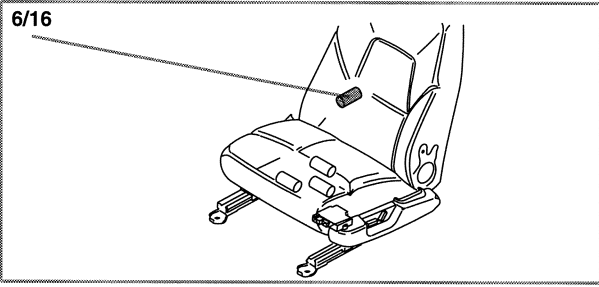


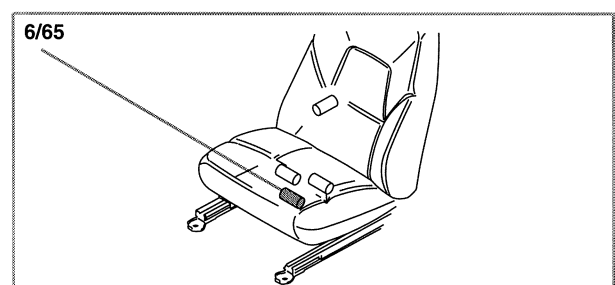
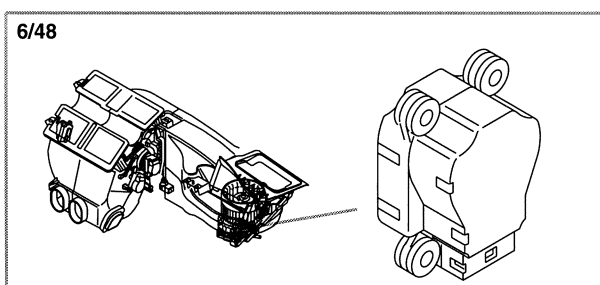
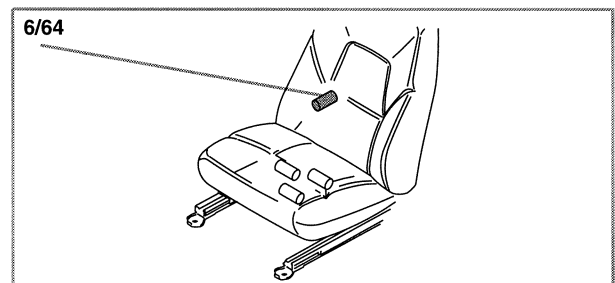
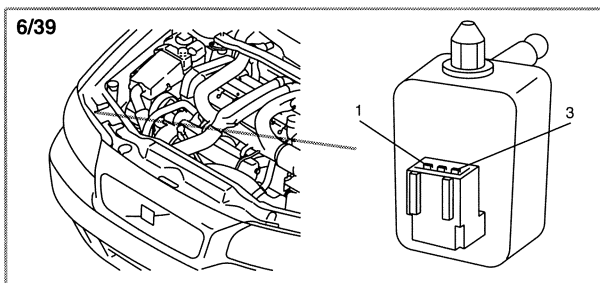
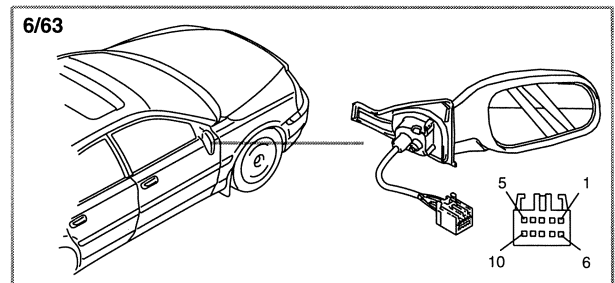
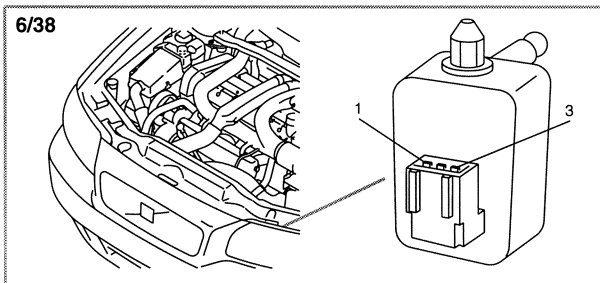
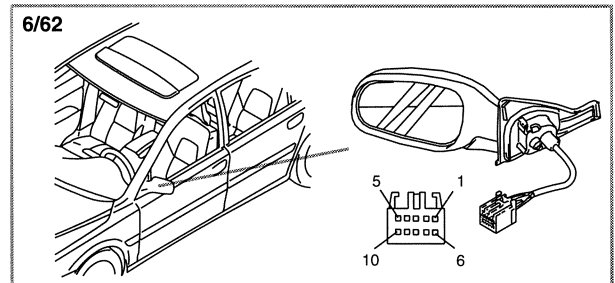
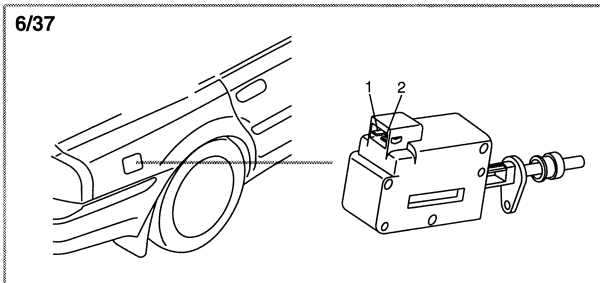
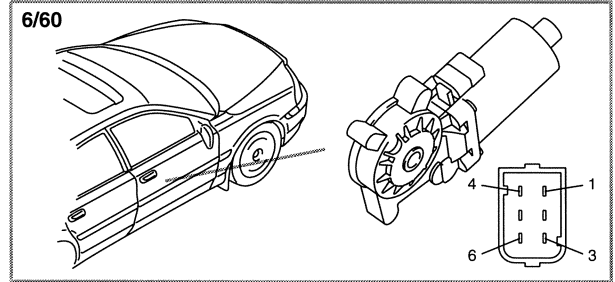
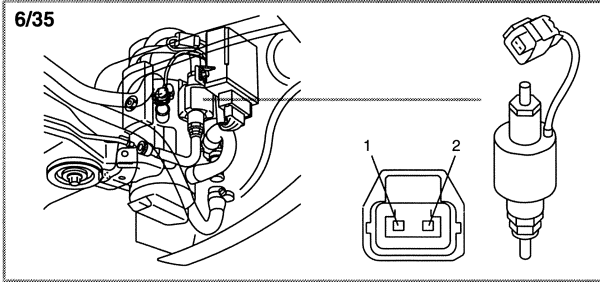
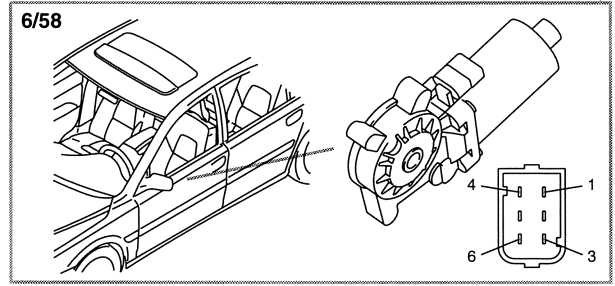
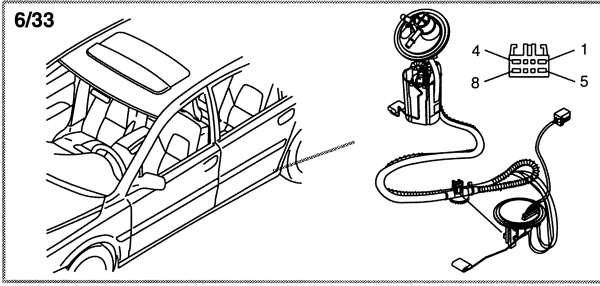
# Component illustrations 4/16 - 4/71



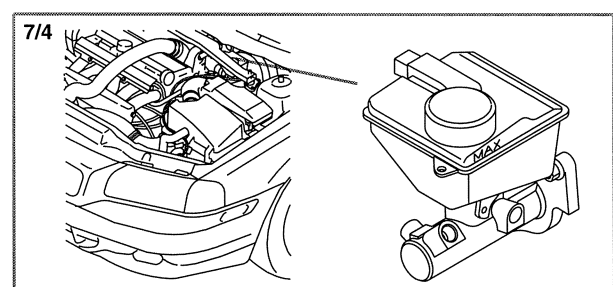
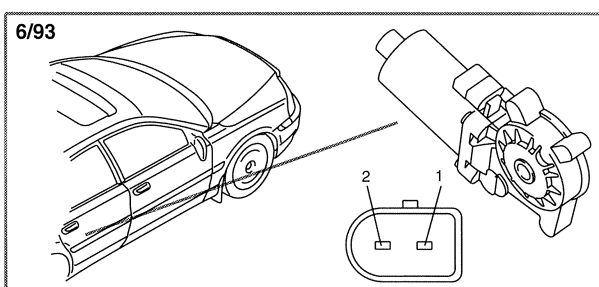
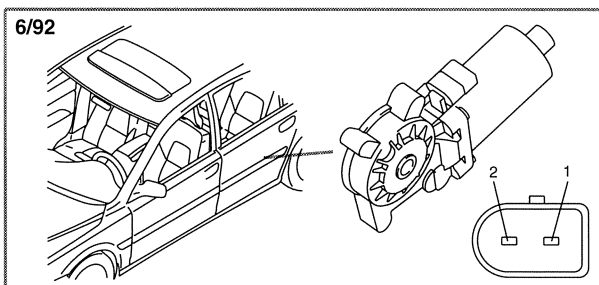
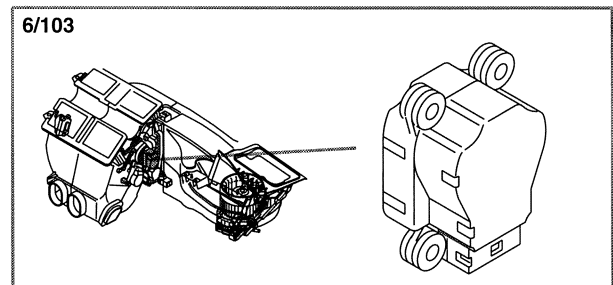
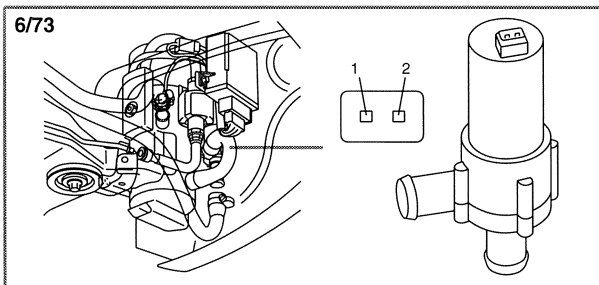
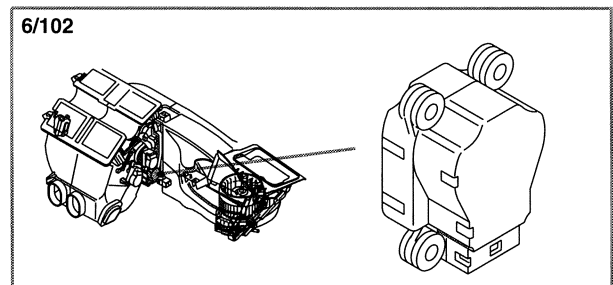
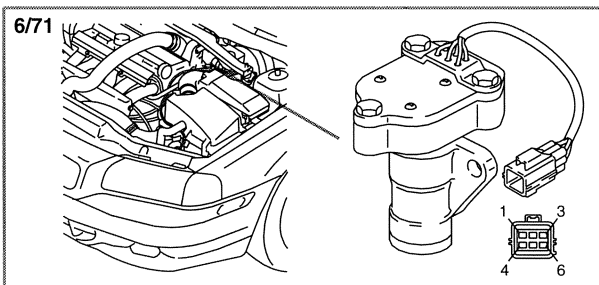
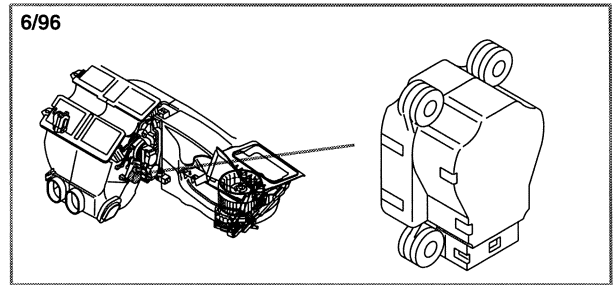
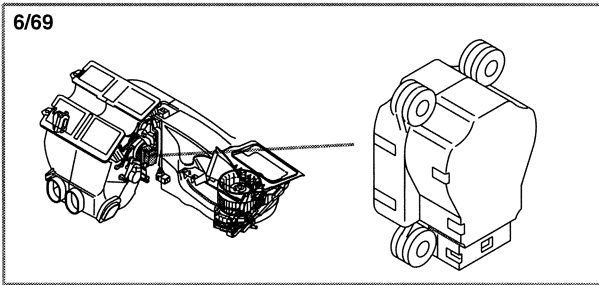
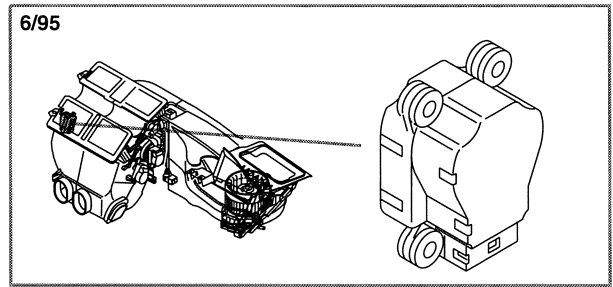
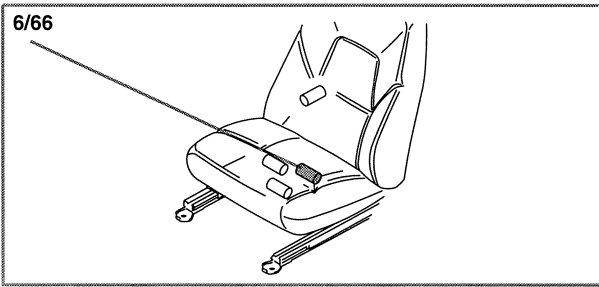


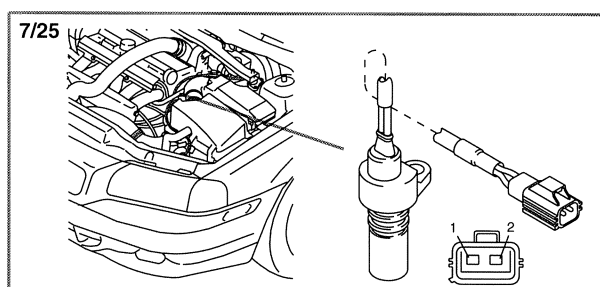
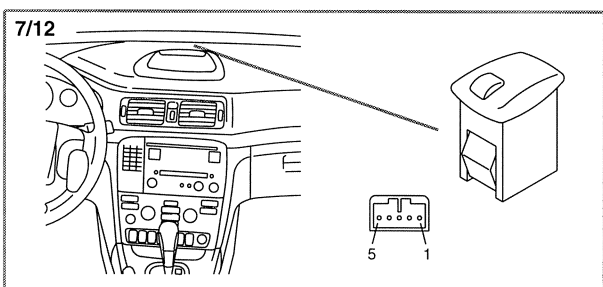
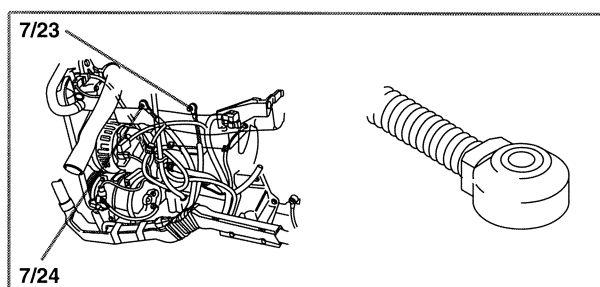
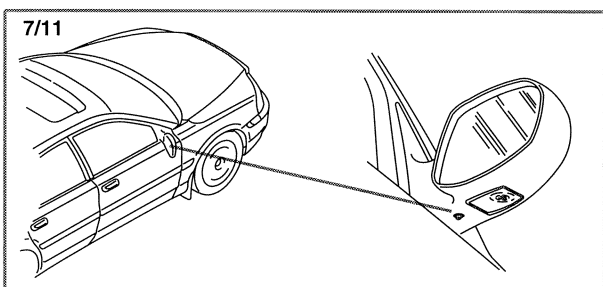
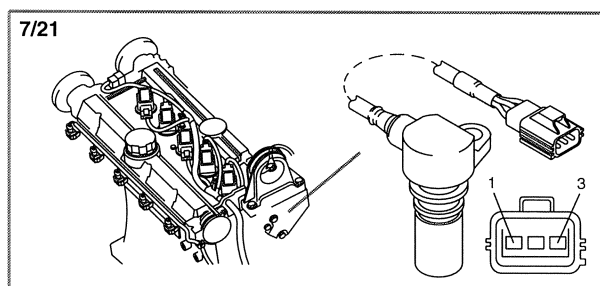
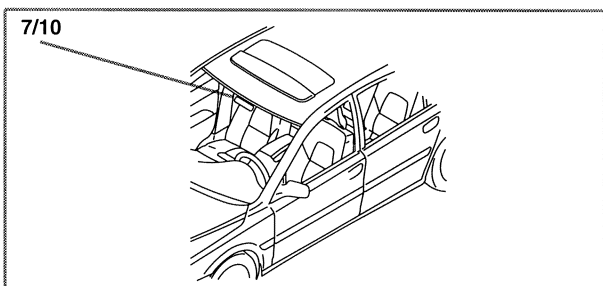
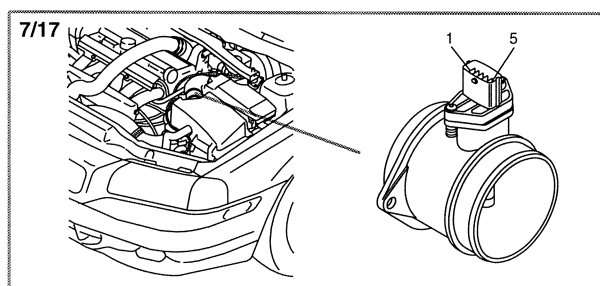
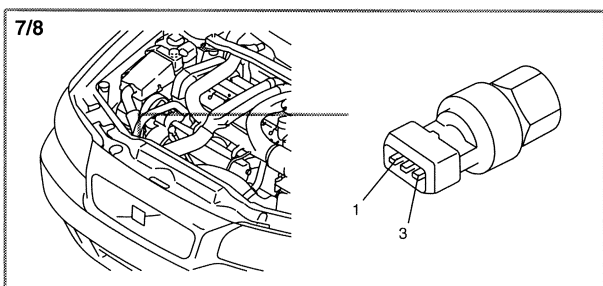
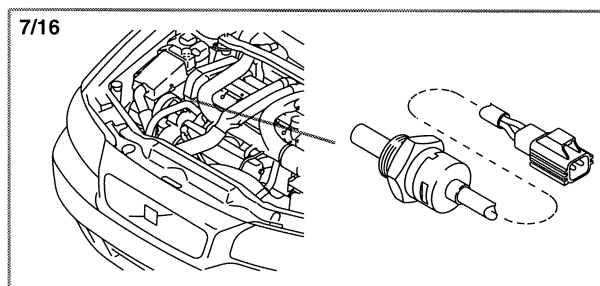
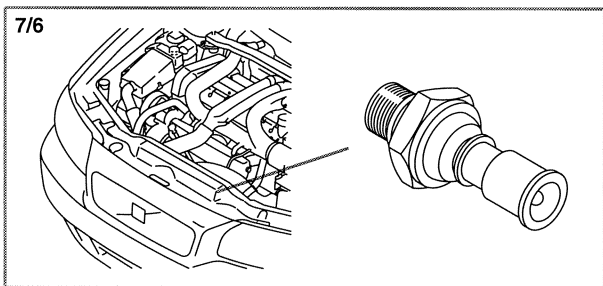
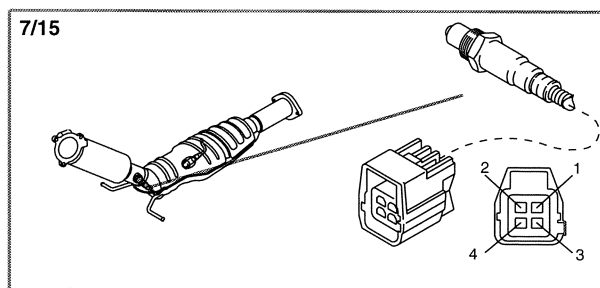
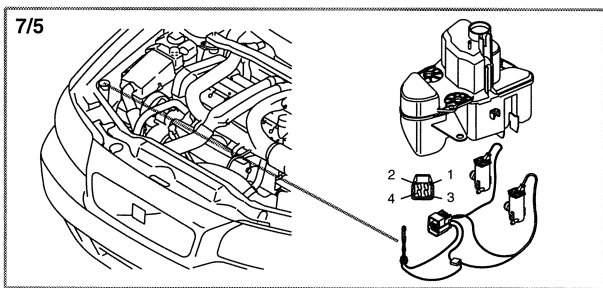
# Component illustrations 6/16 - 6/32



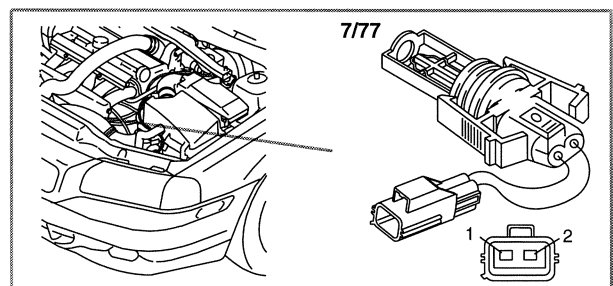
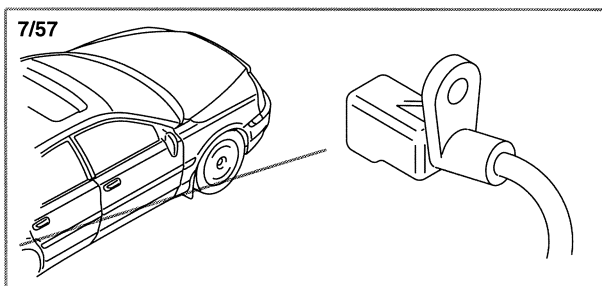
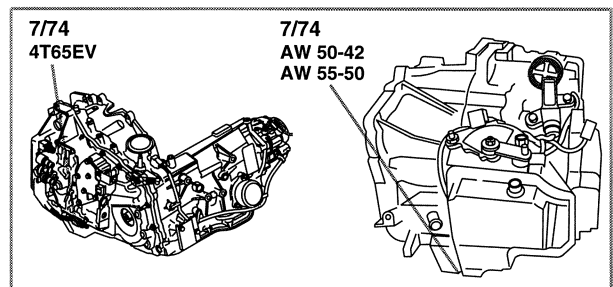
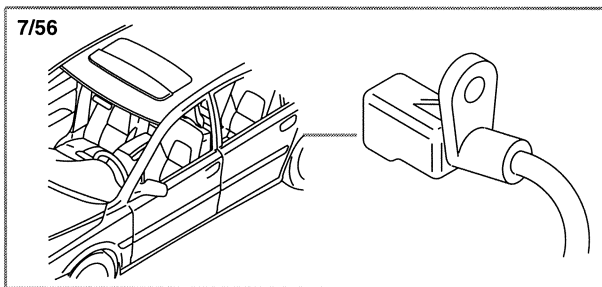
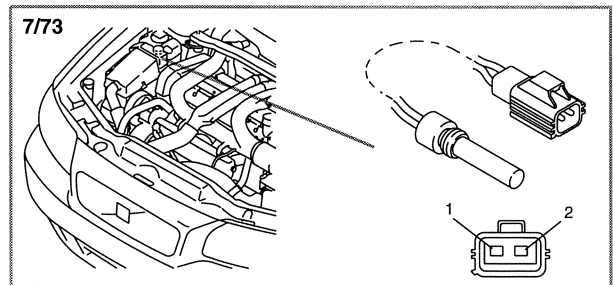
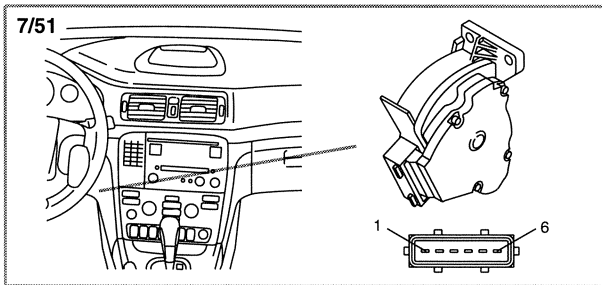
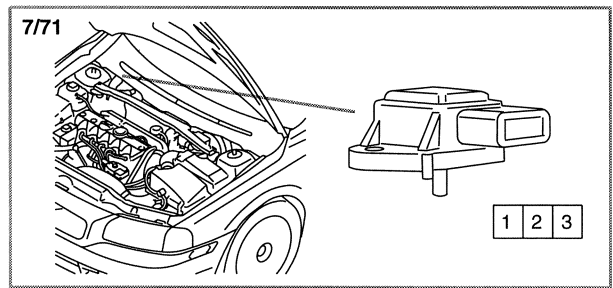
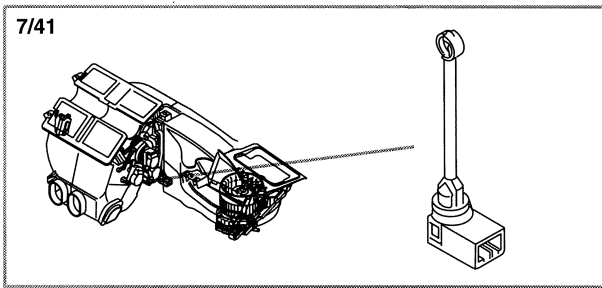
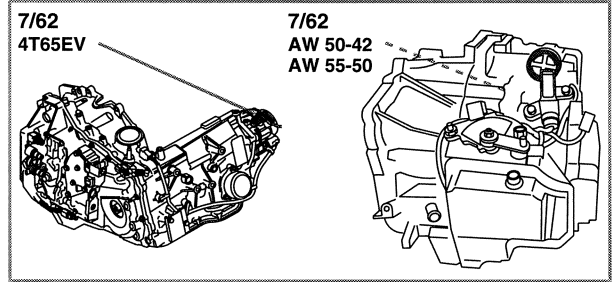
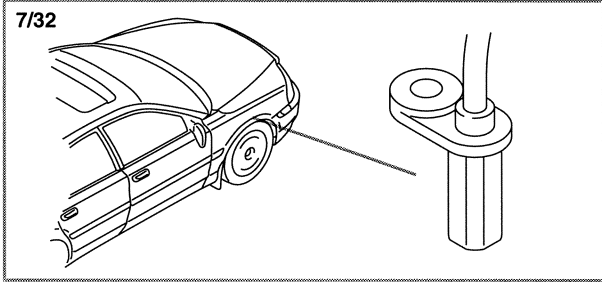
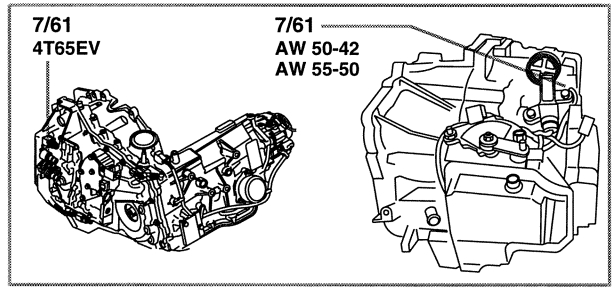
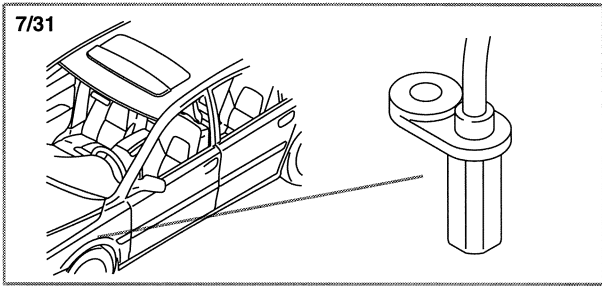


# Component illustrations 6/66 - 7/4

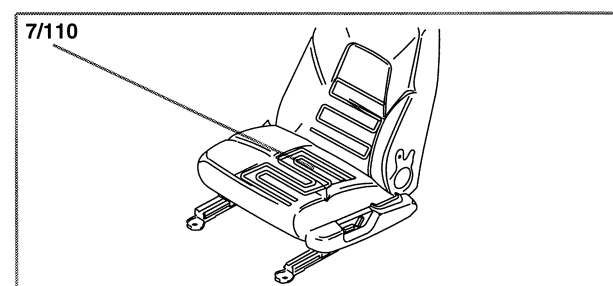
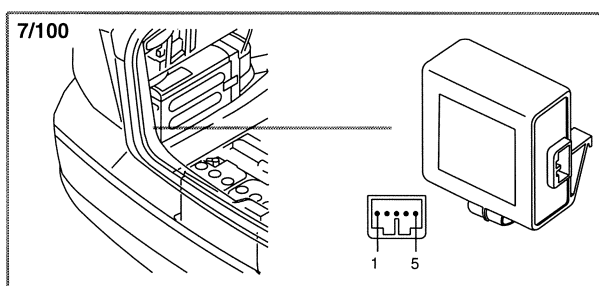
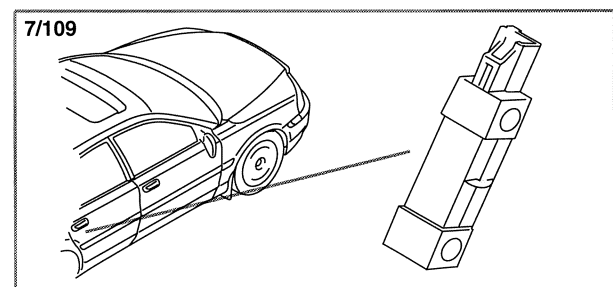
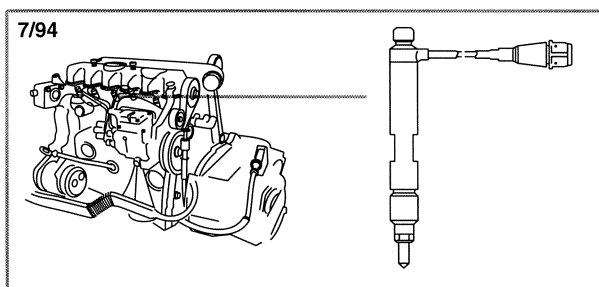
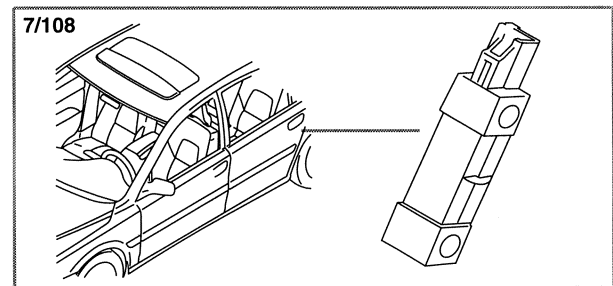
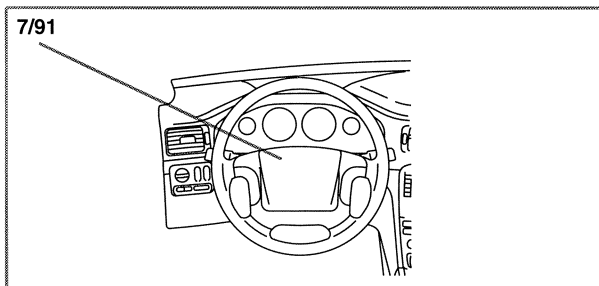
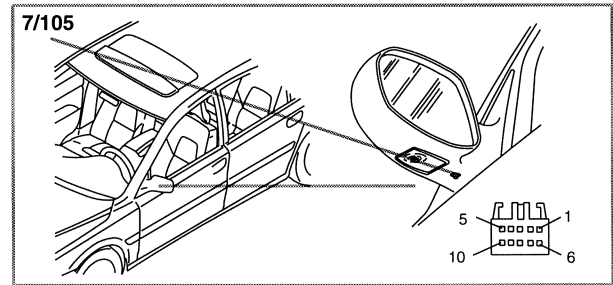
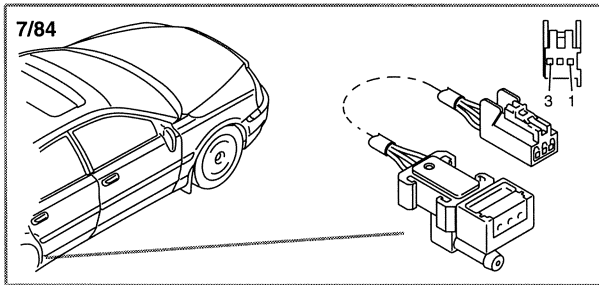
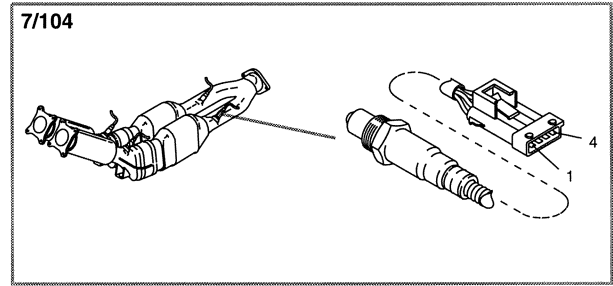
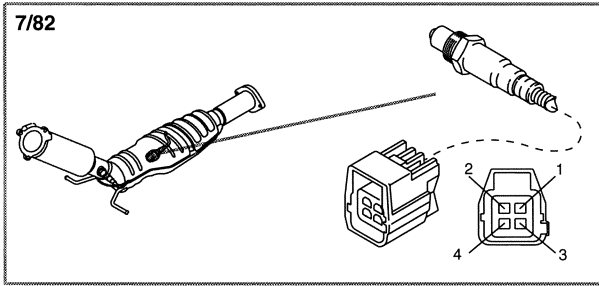
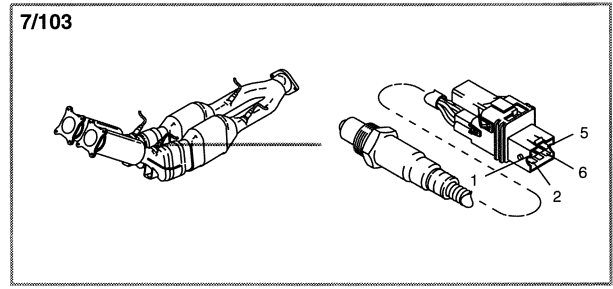
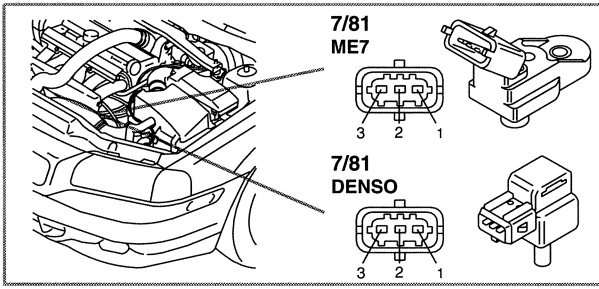




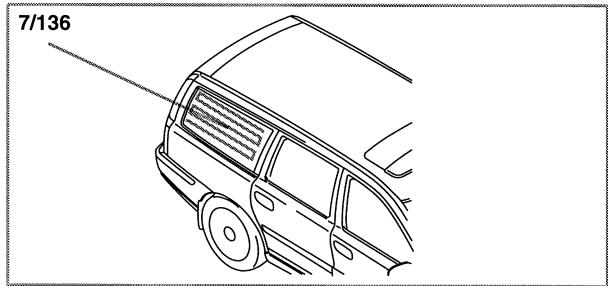
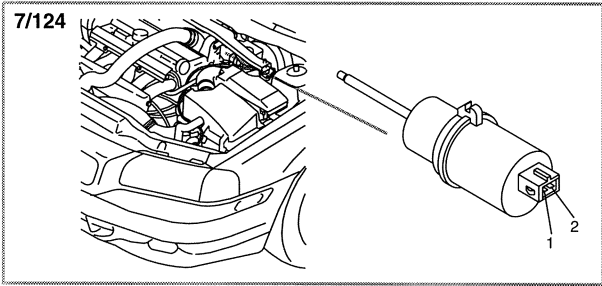
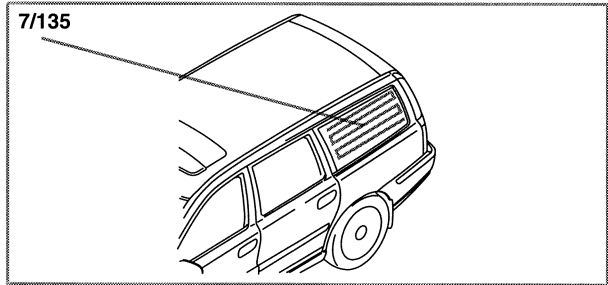
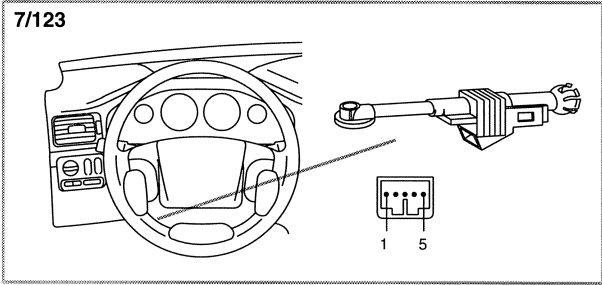
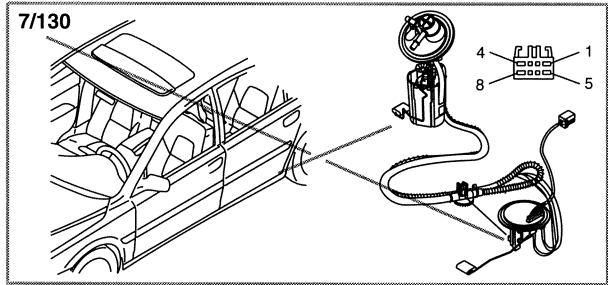
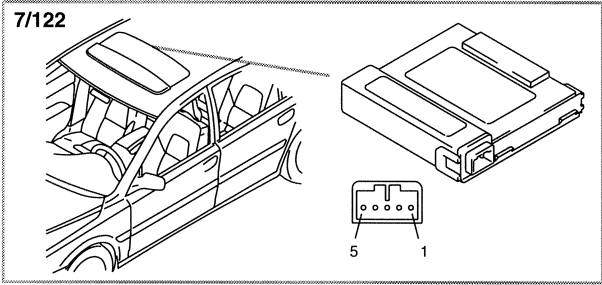
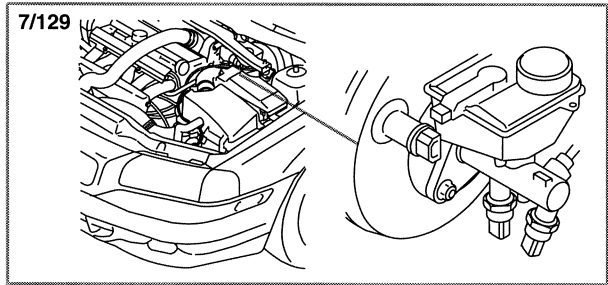
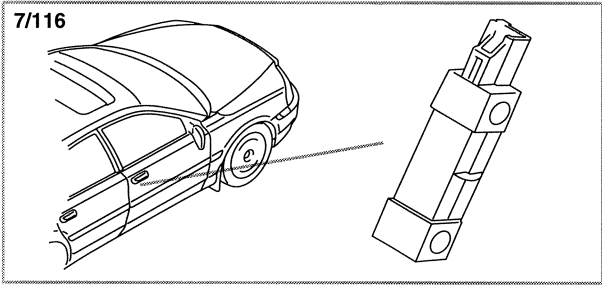
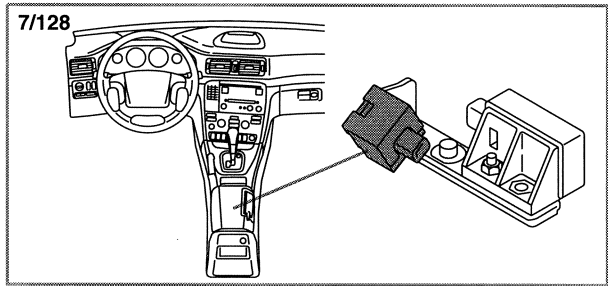
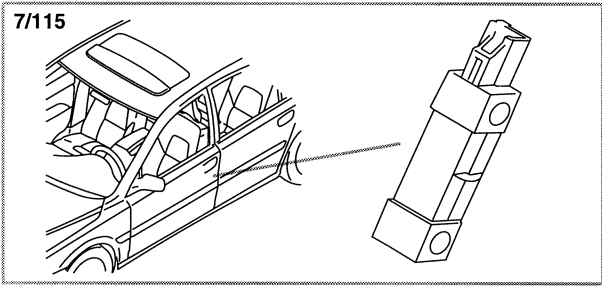
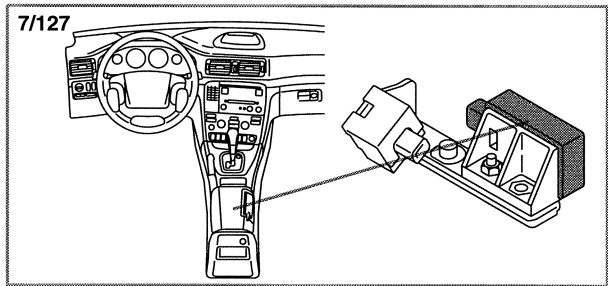
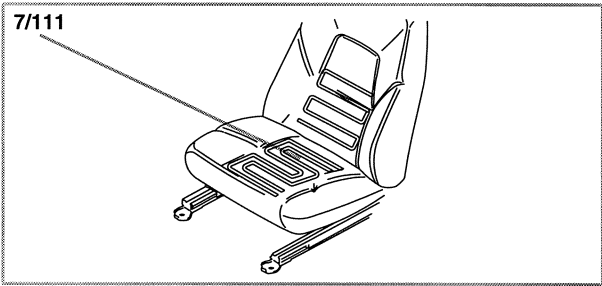
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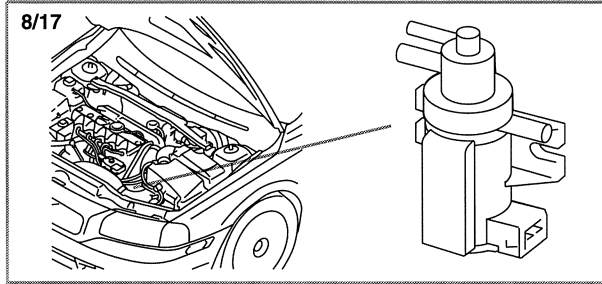
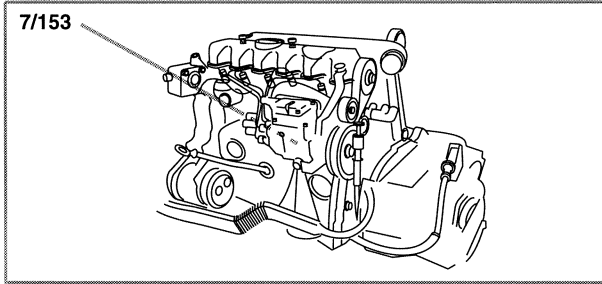
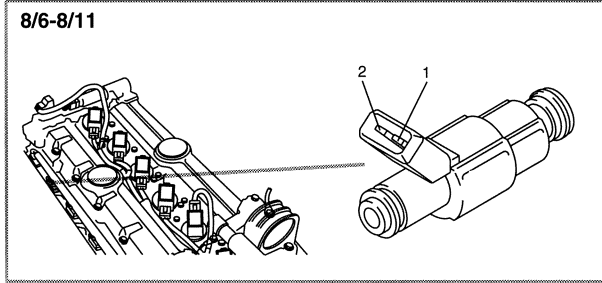
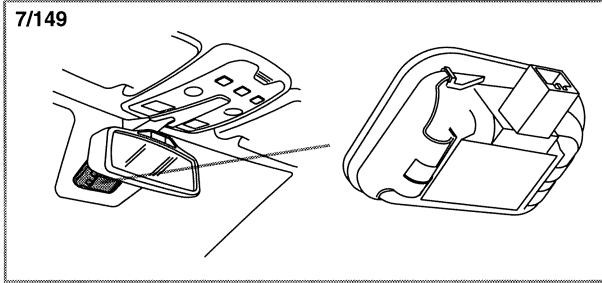
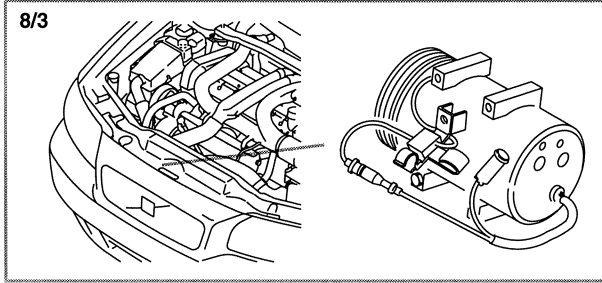
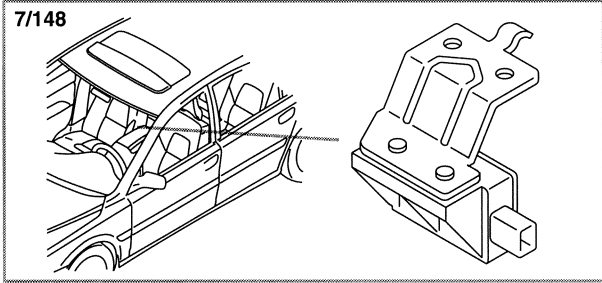
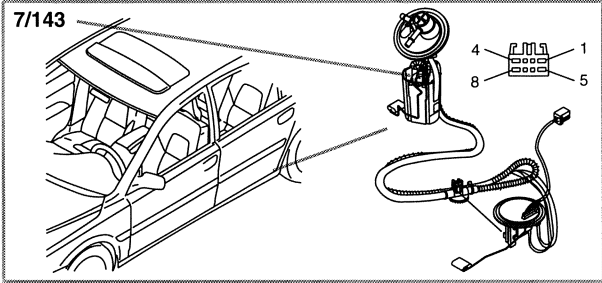
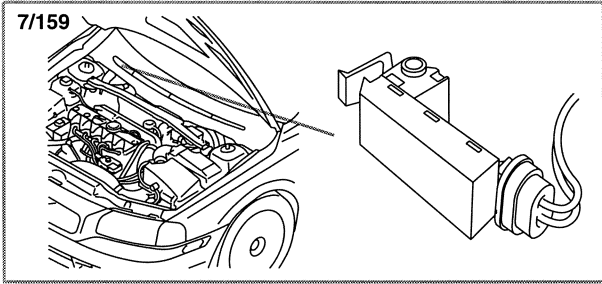
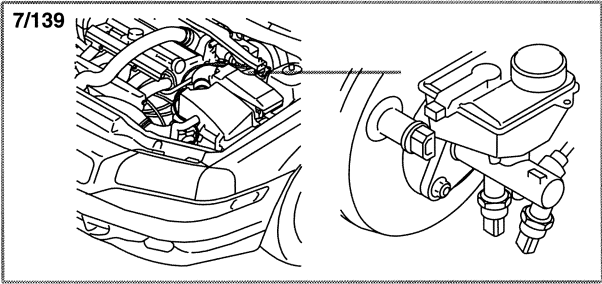
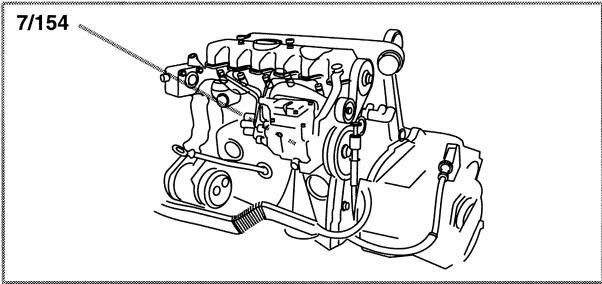
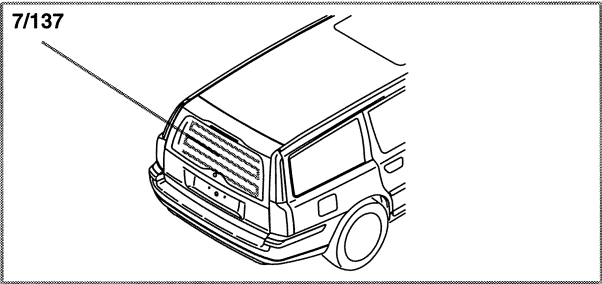




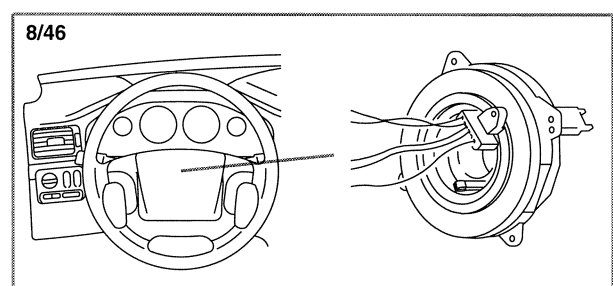
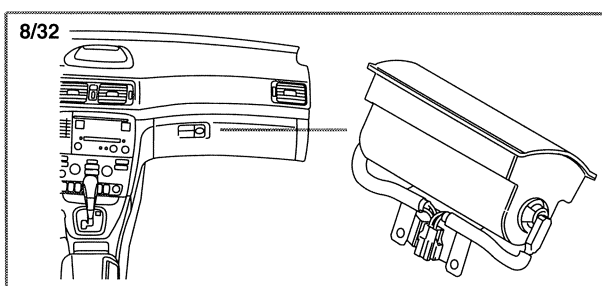
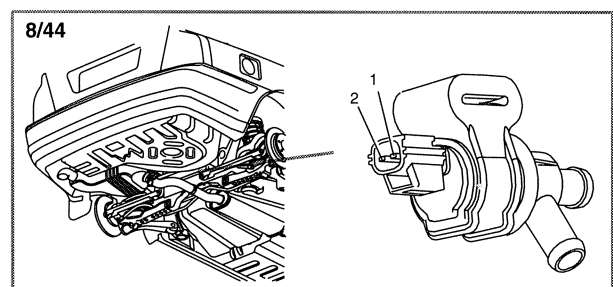
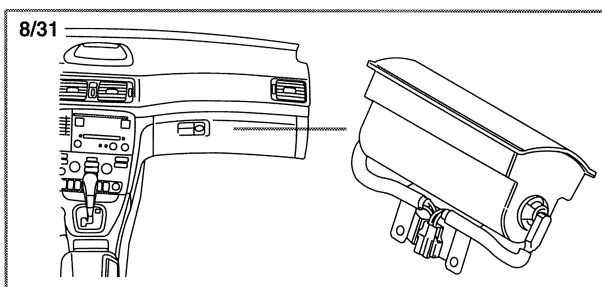
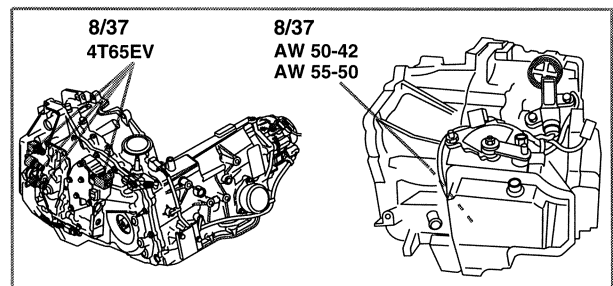
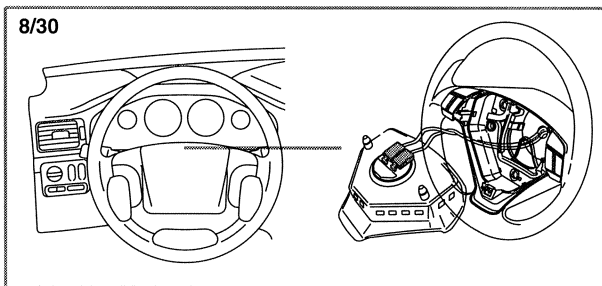
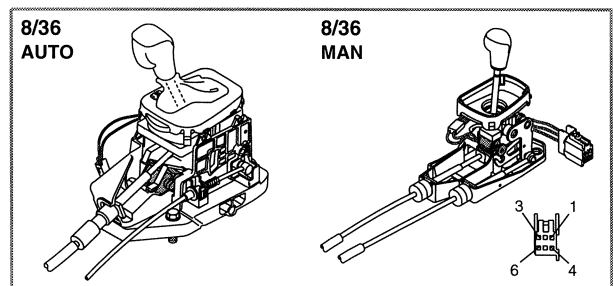
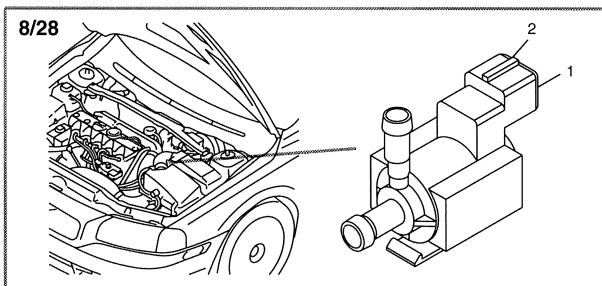
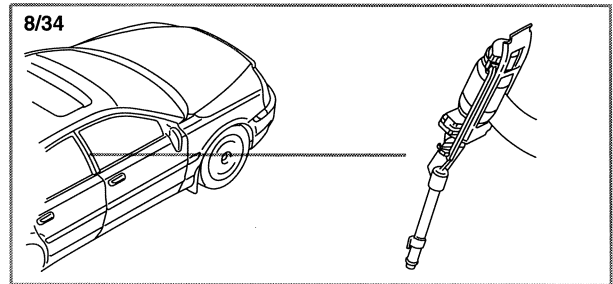
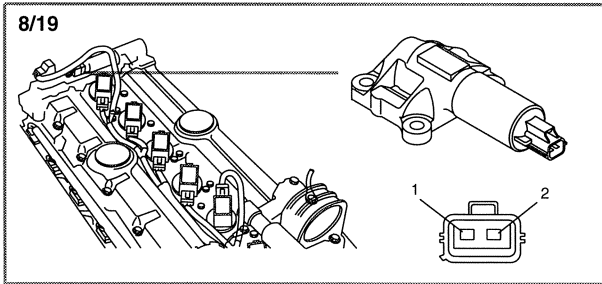
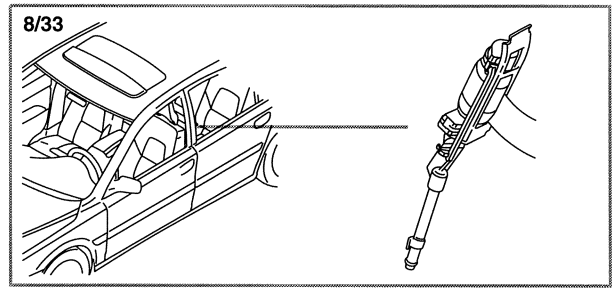
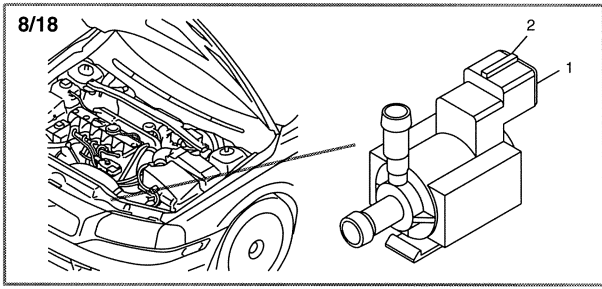


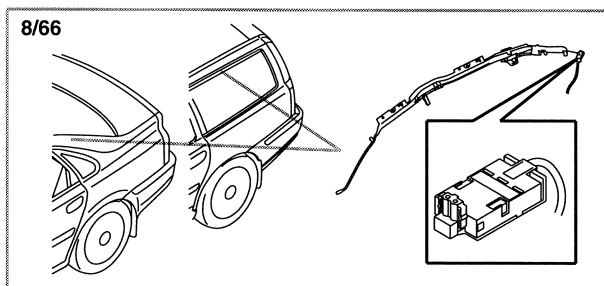
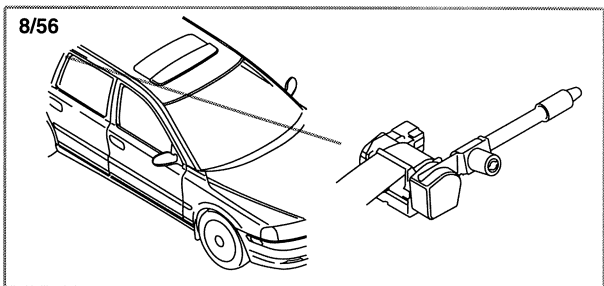
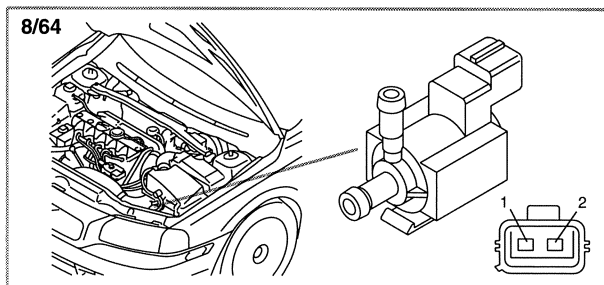
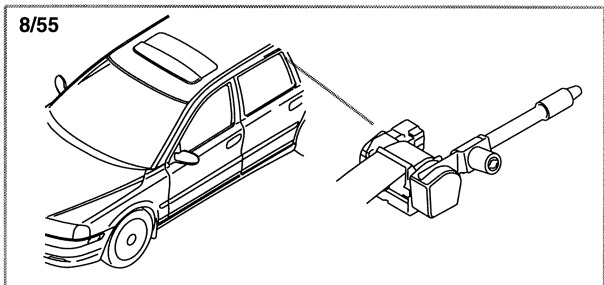
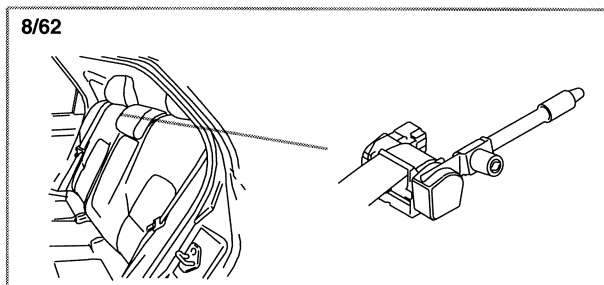
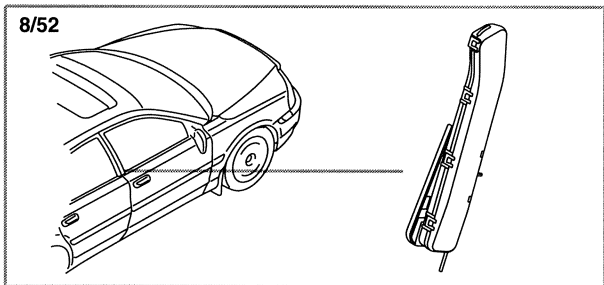
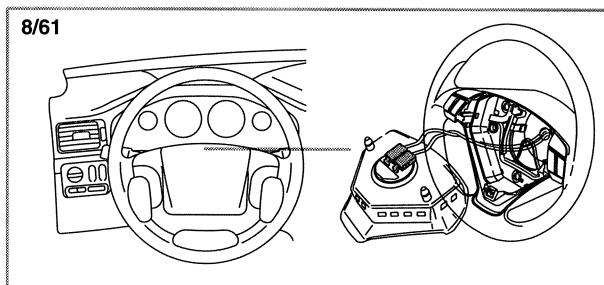
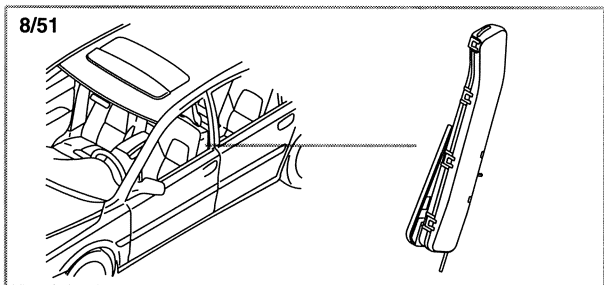
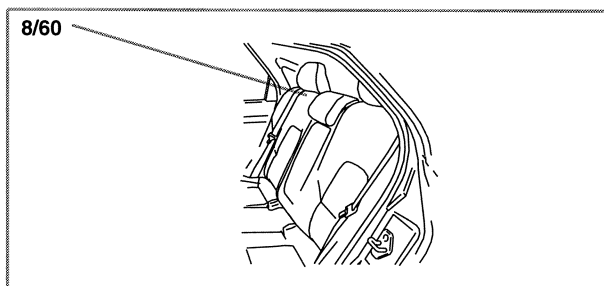
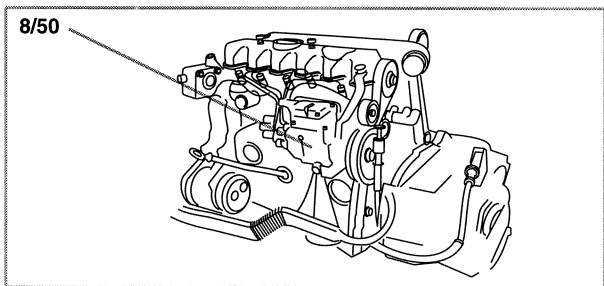
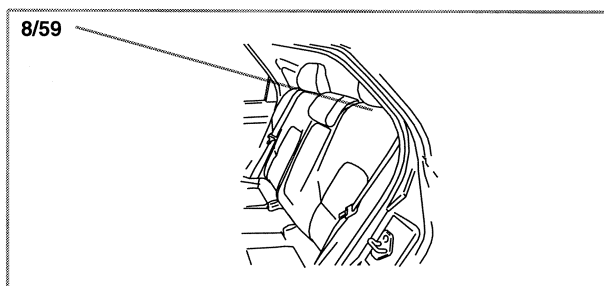
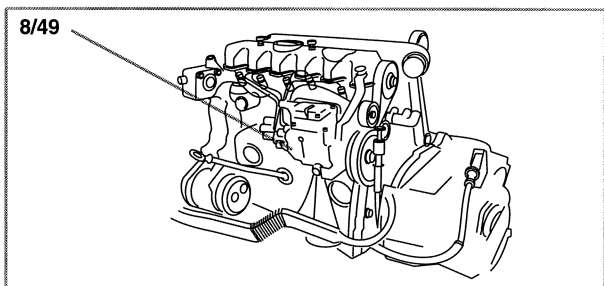
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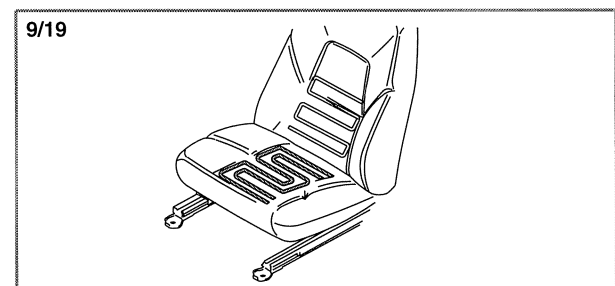
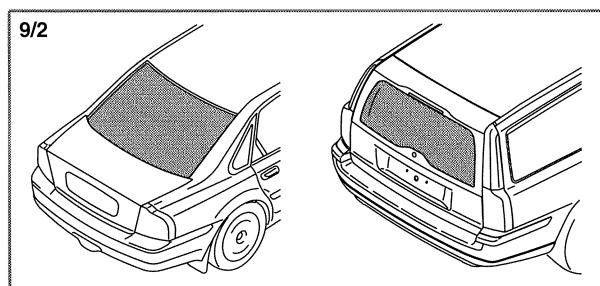
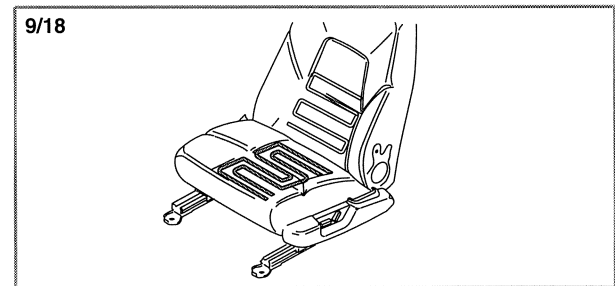
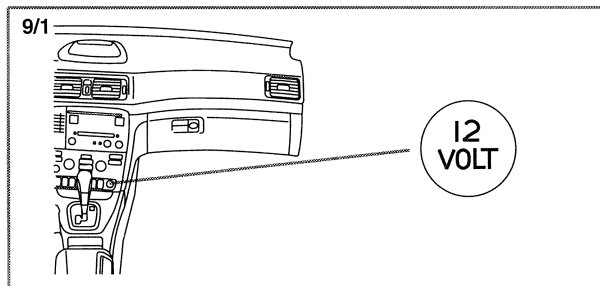
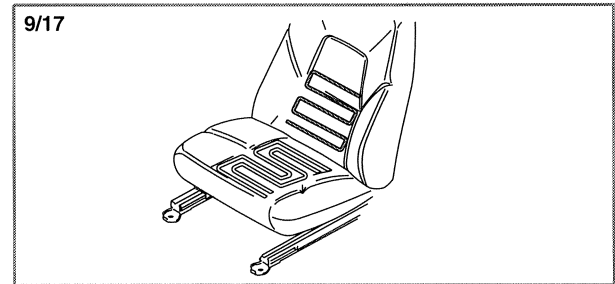
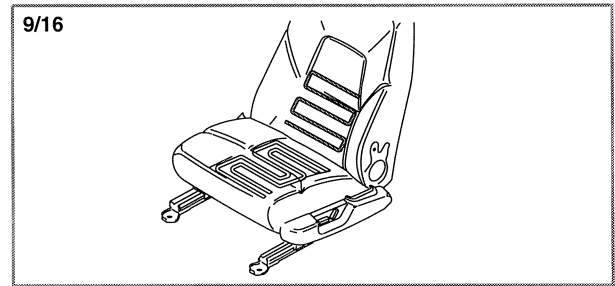
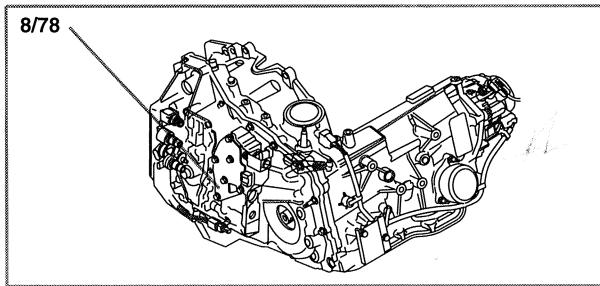
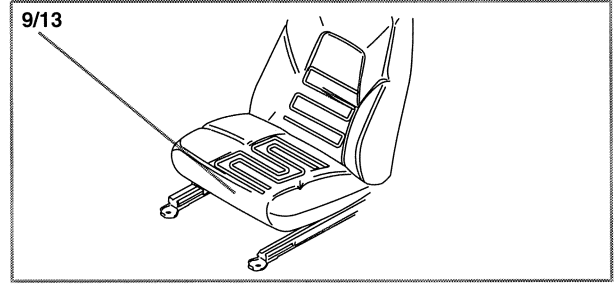
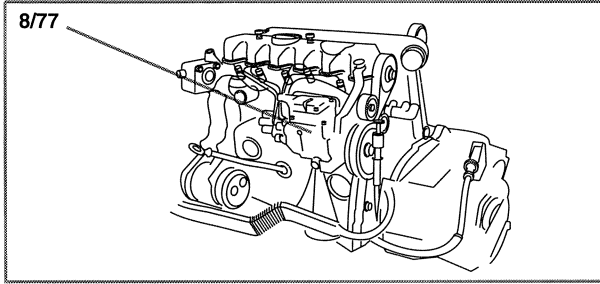
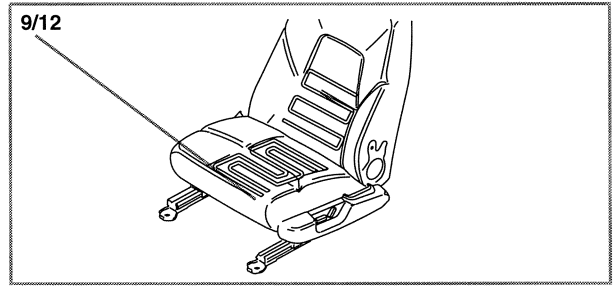
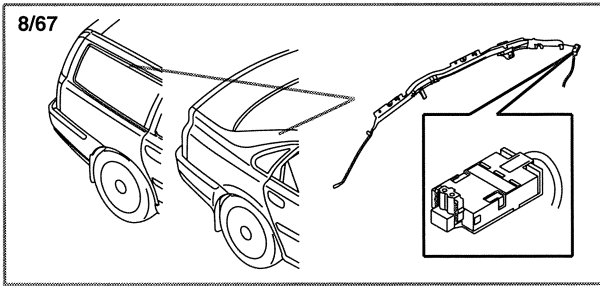


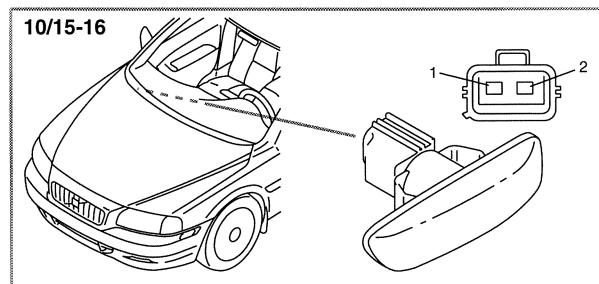
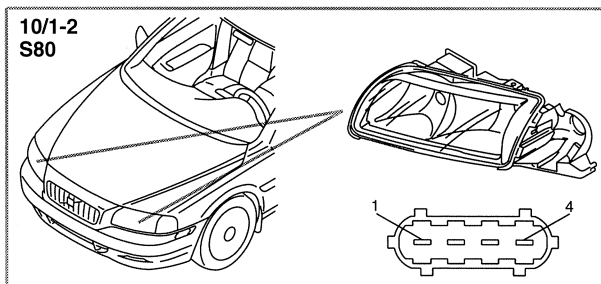
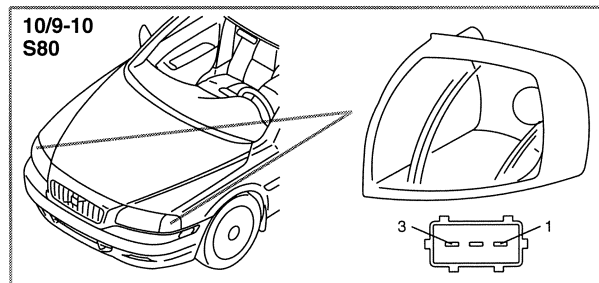
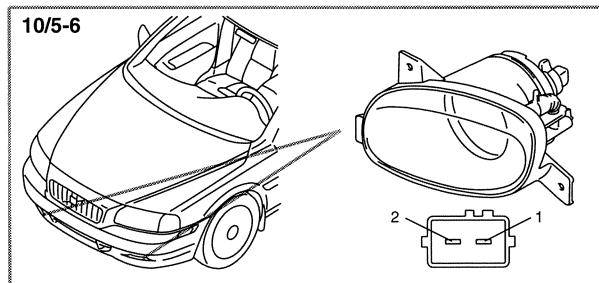
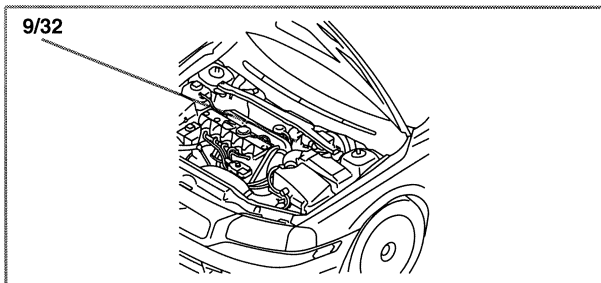
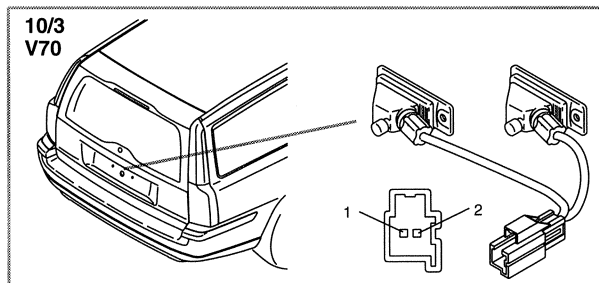
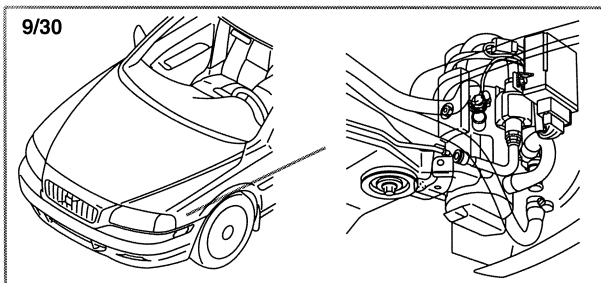
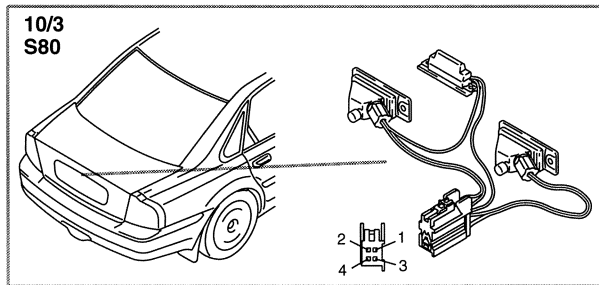
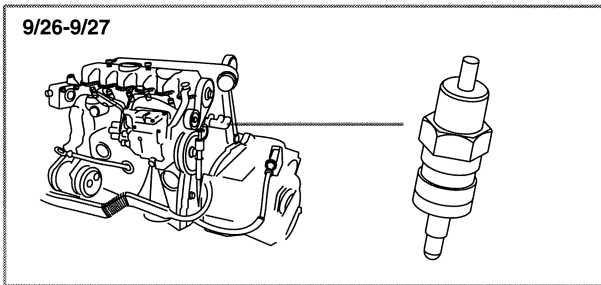
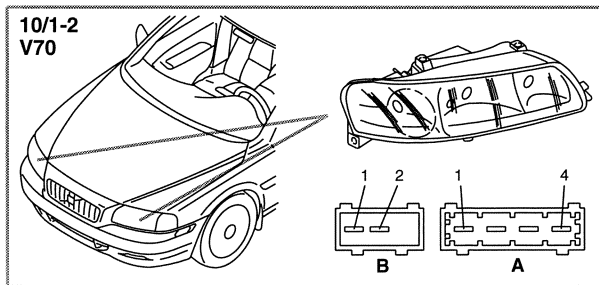
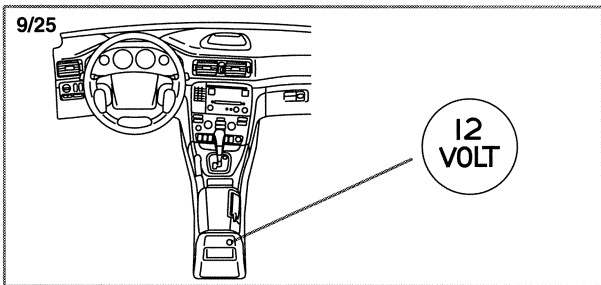
# Component illustrations 8/18 - 8/46



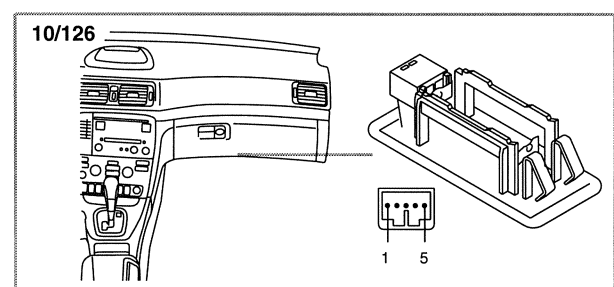
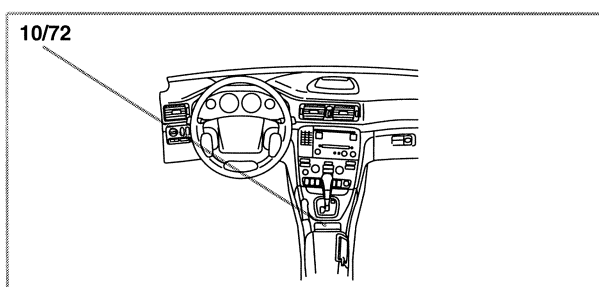
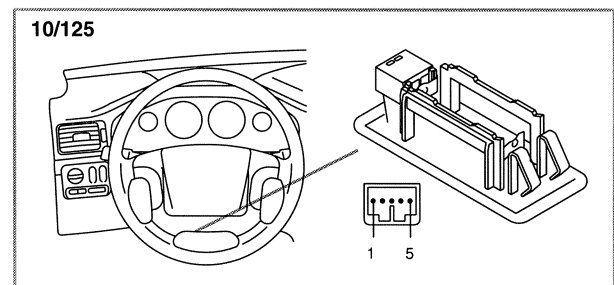
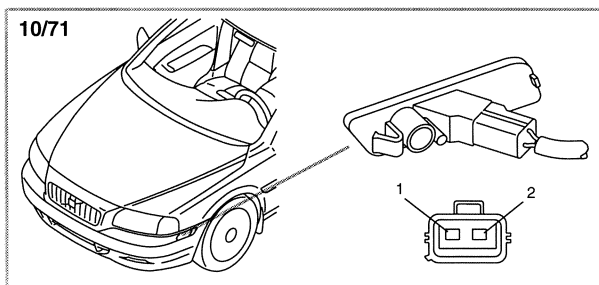
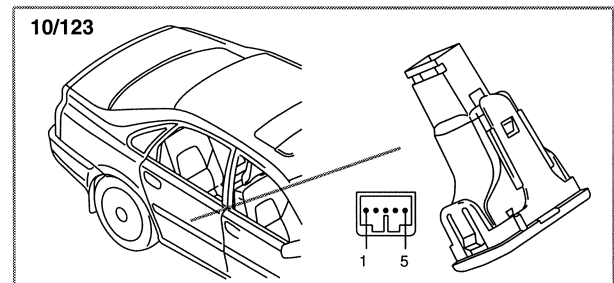
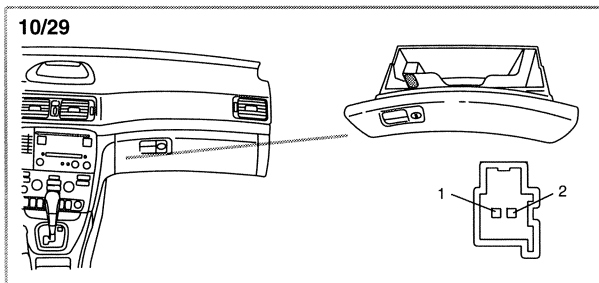
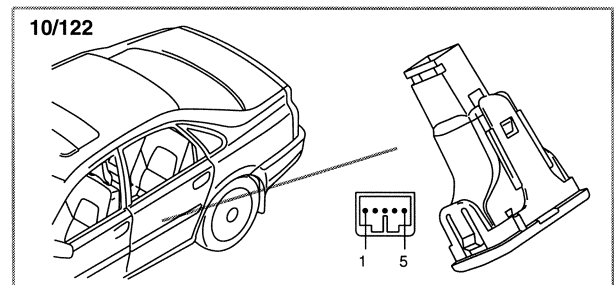
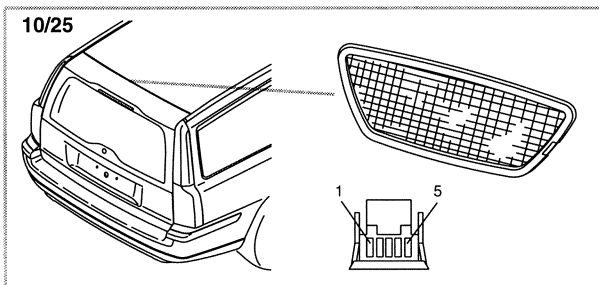
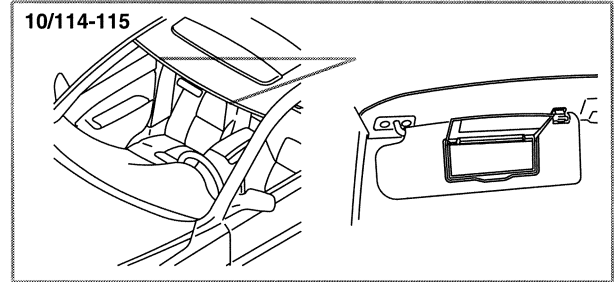
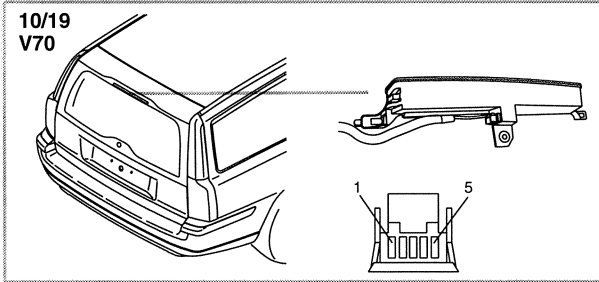
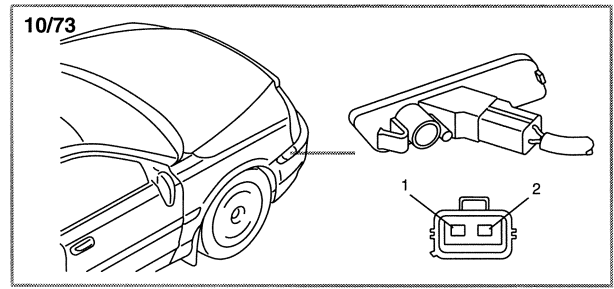
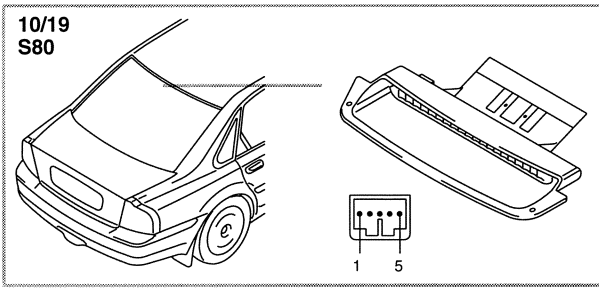


# Component illustrations 8/67 - 9/19

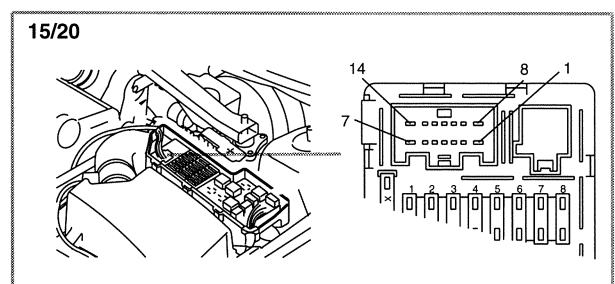
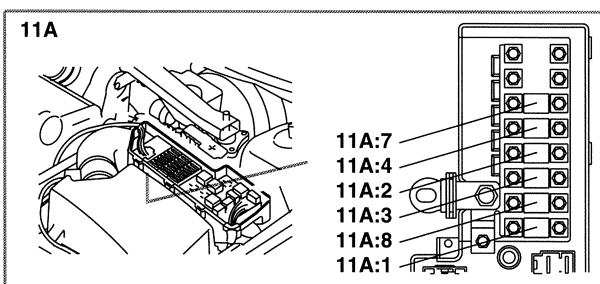
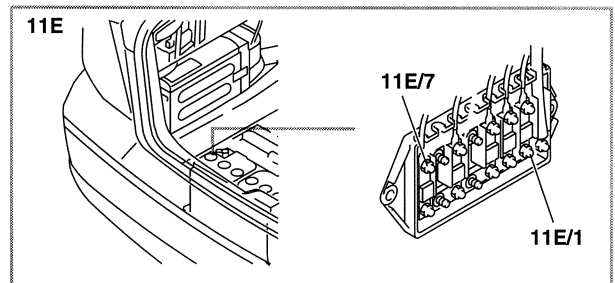
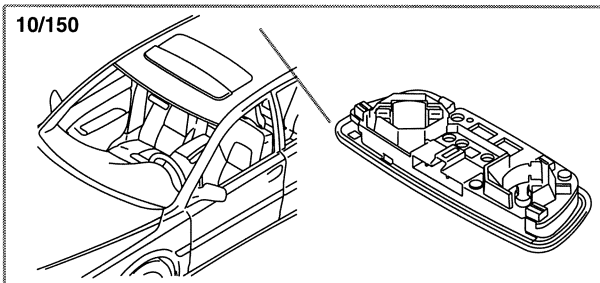
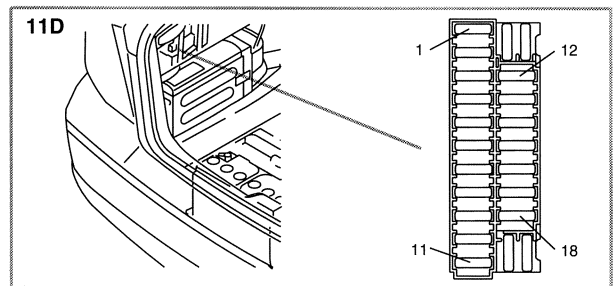
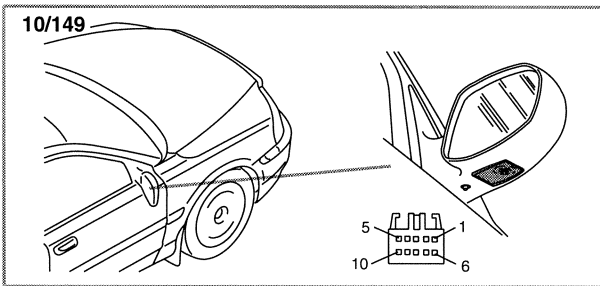
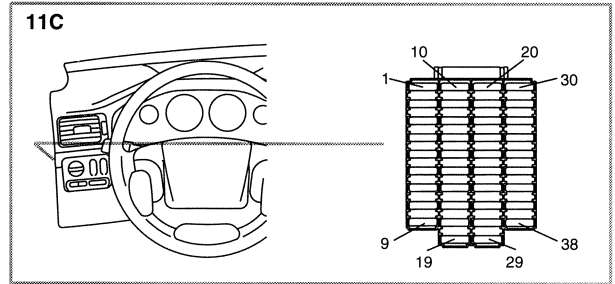
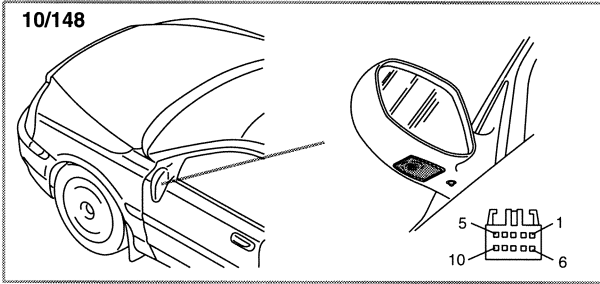
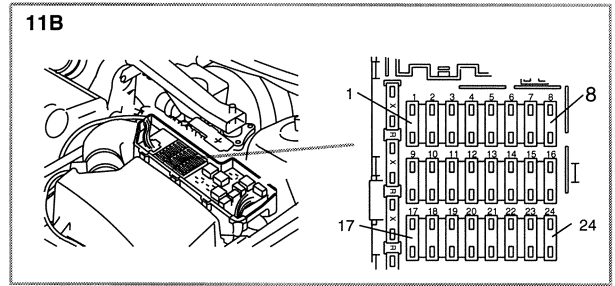
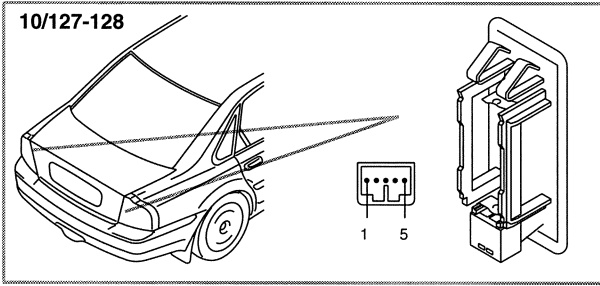




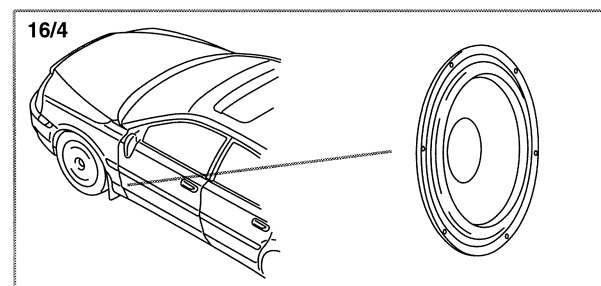
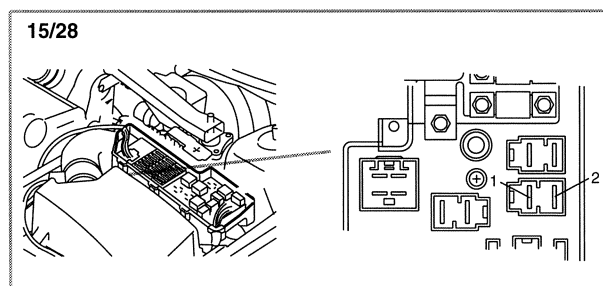
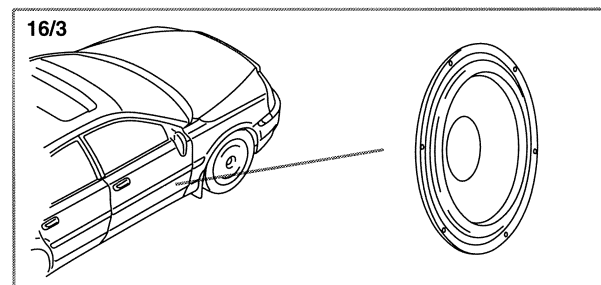
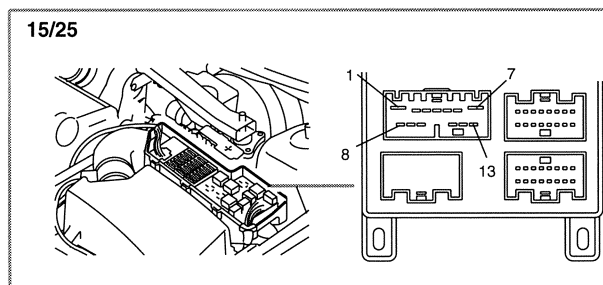
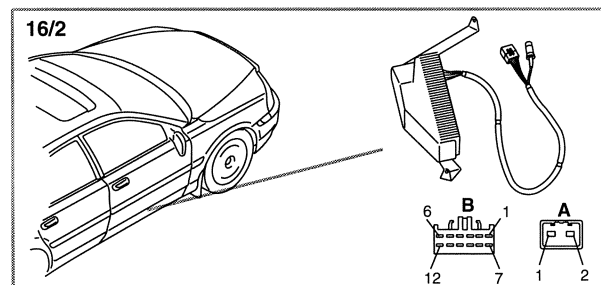
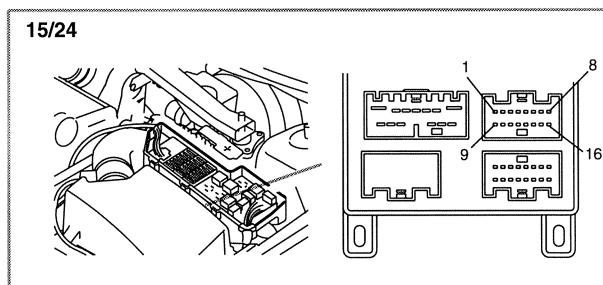
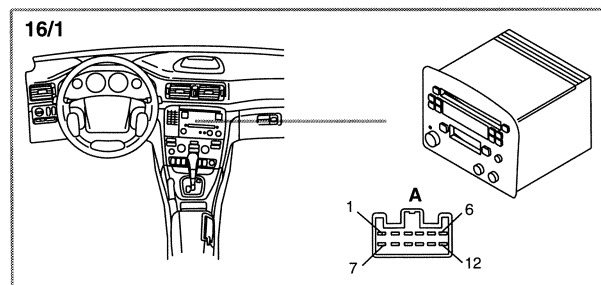
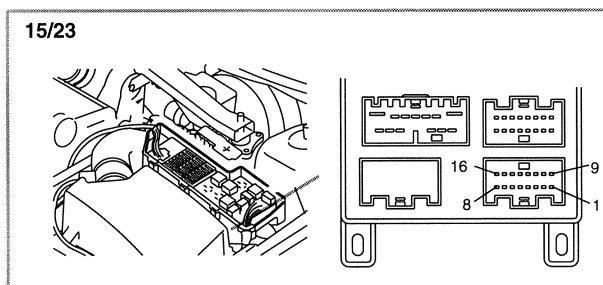
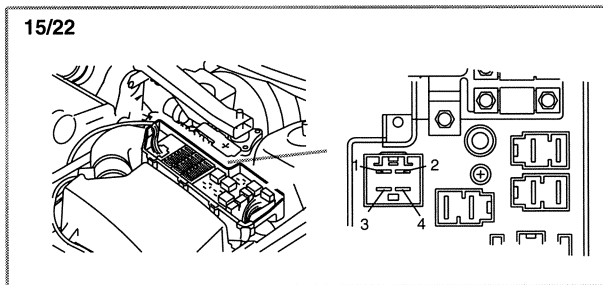
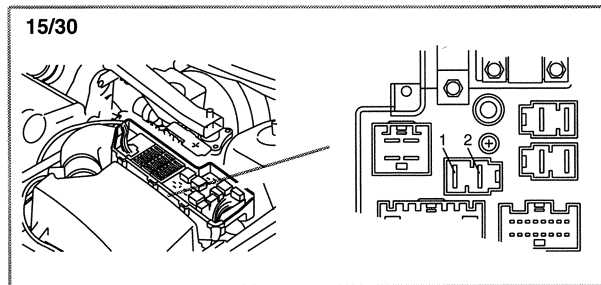
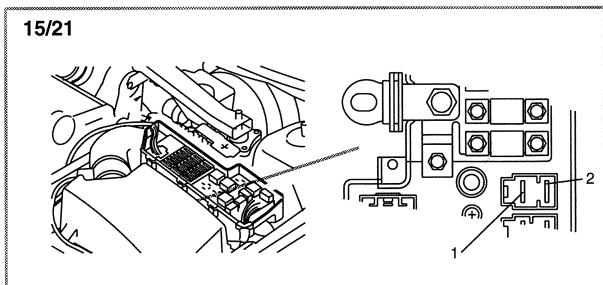
# Component illustrations 10/19 - 10/126

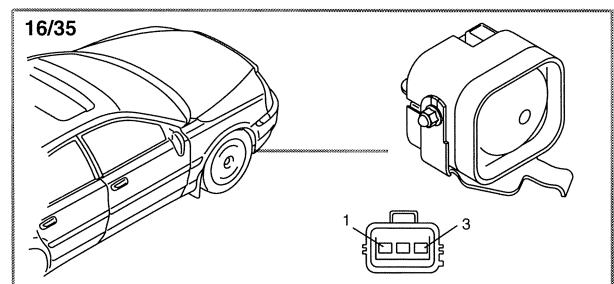
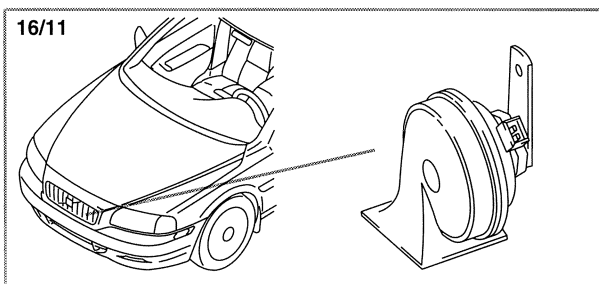
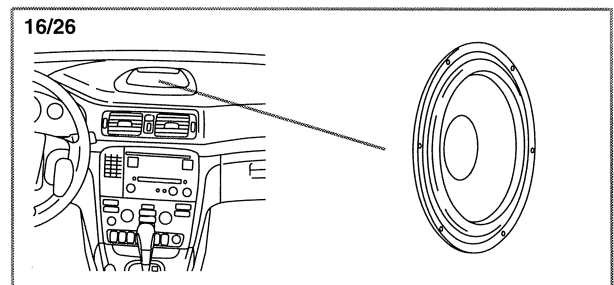
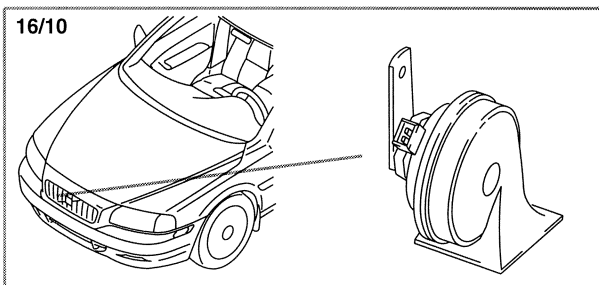
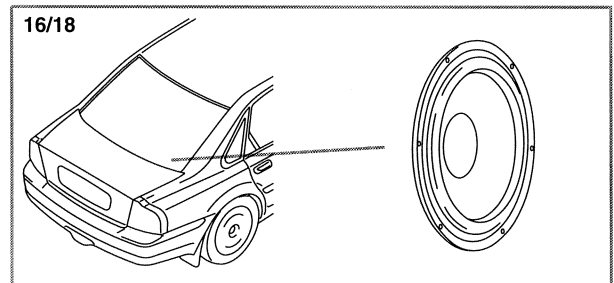
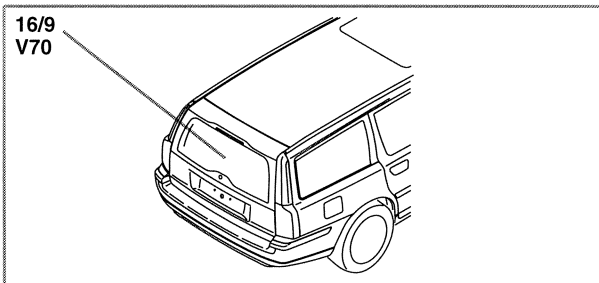
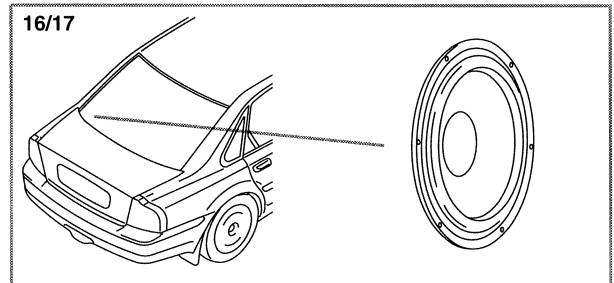
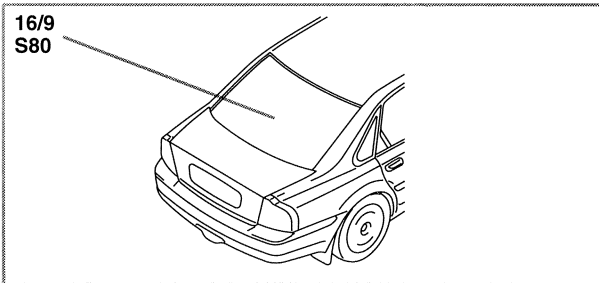
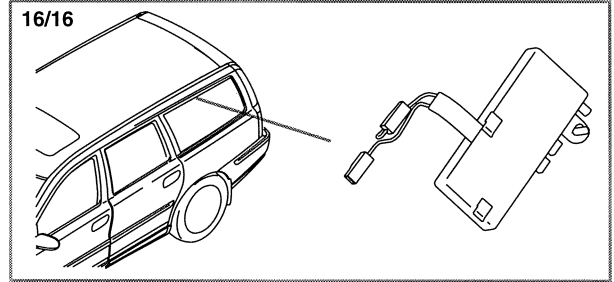
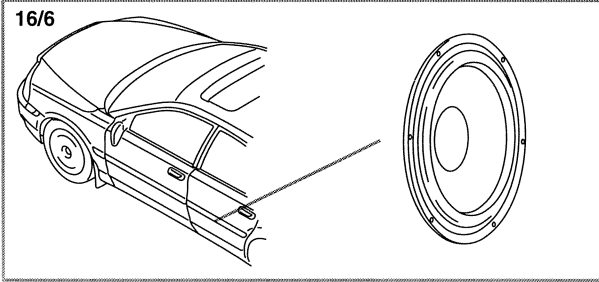
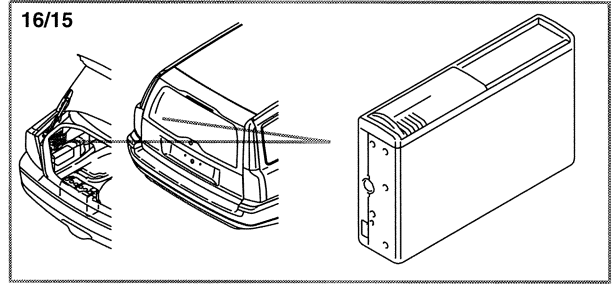
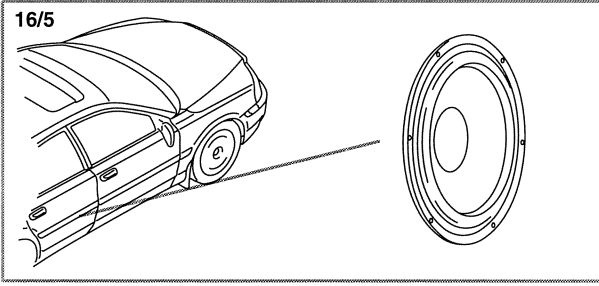




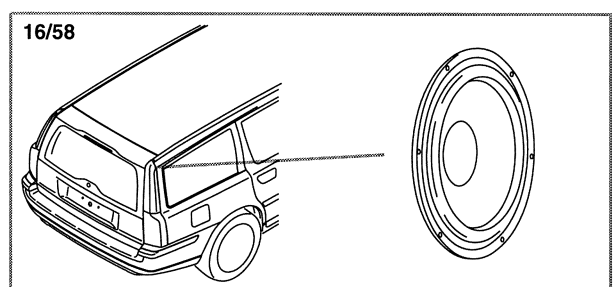
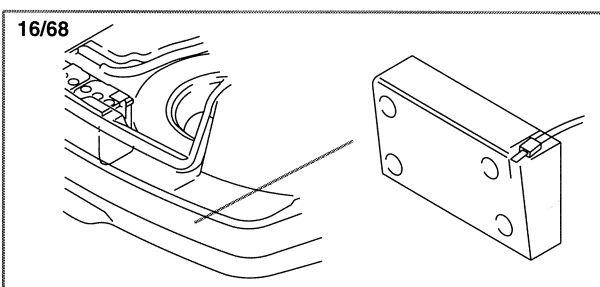
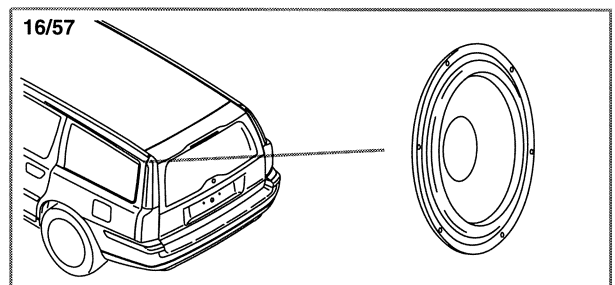
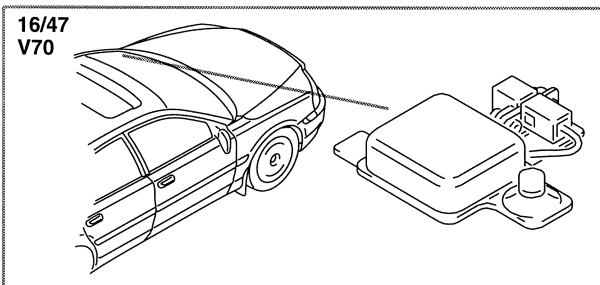
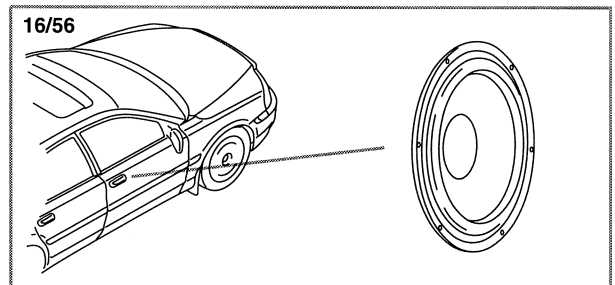
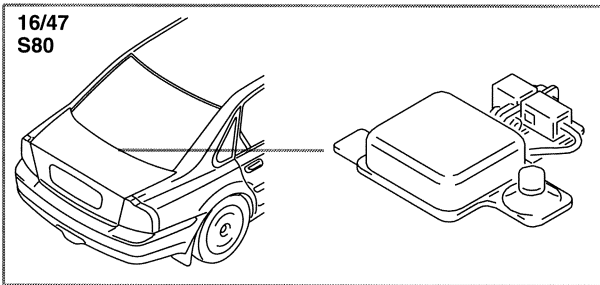
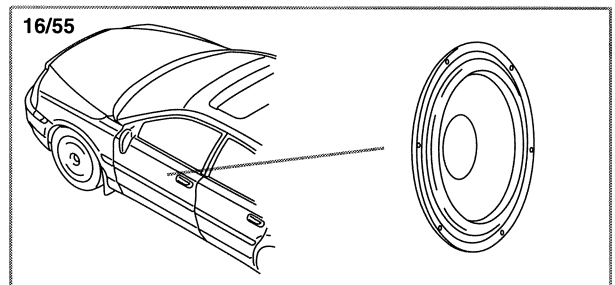
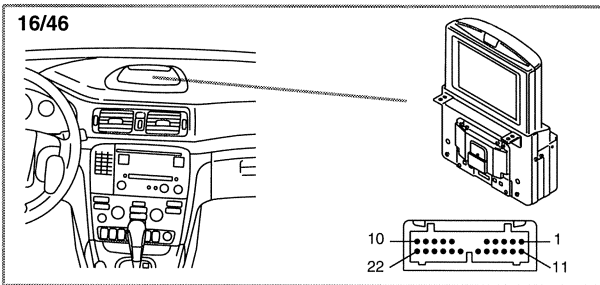
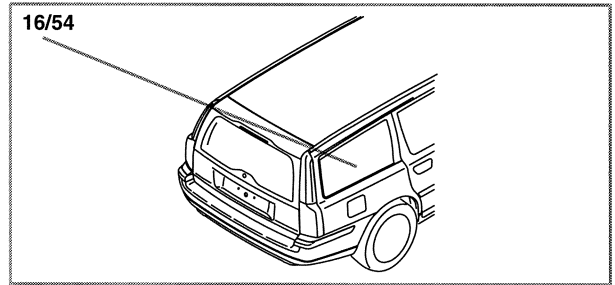
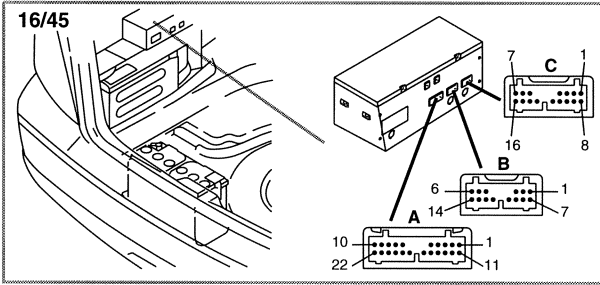
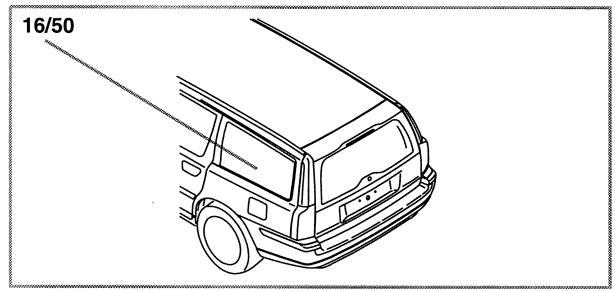
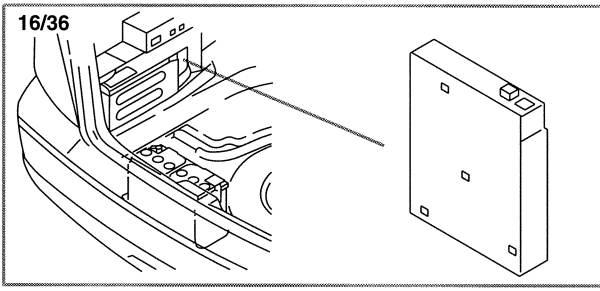


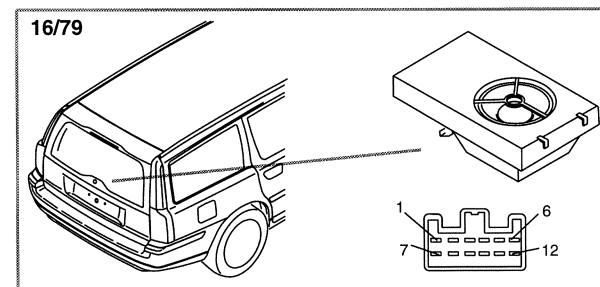
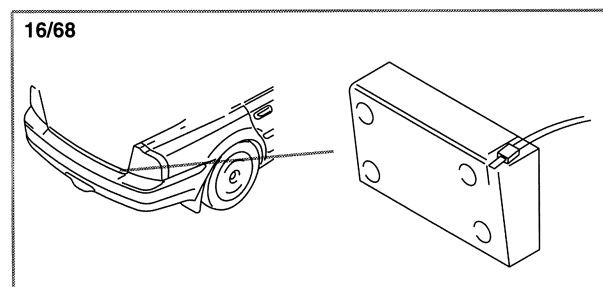
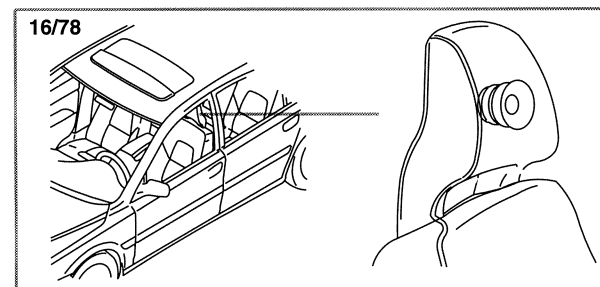
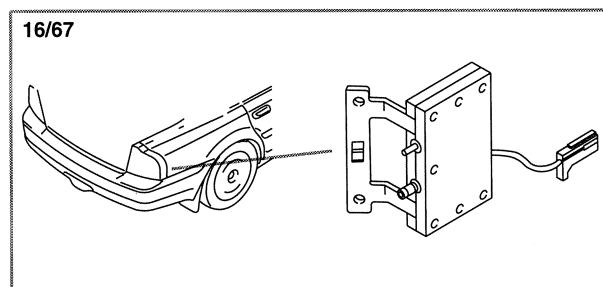
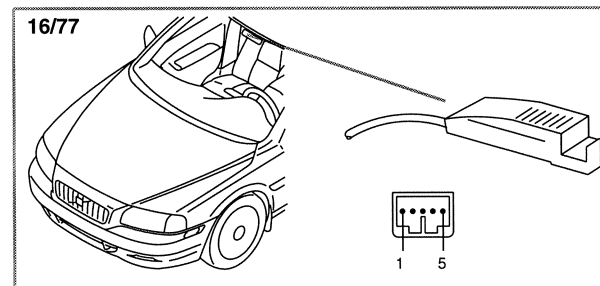
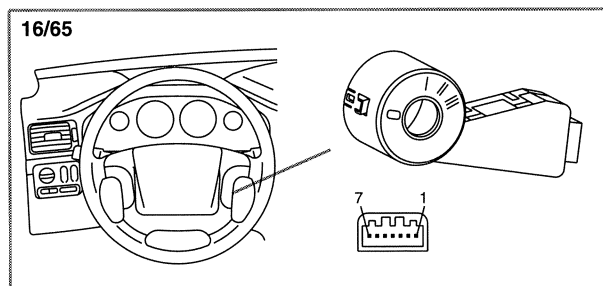
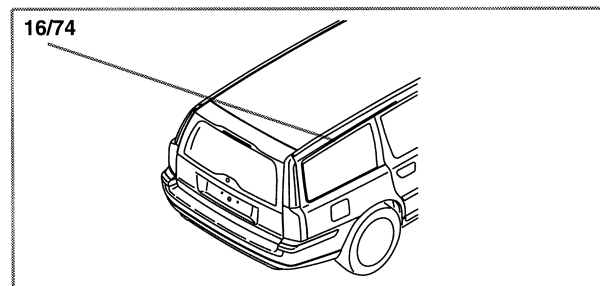
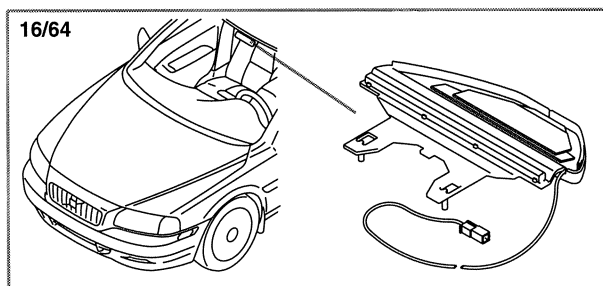
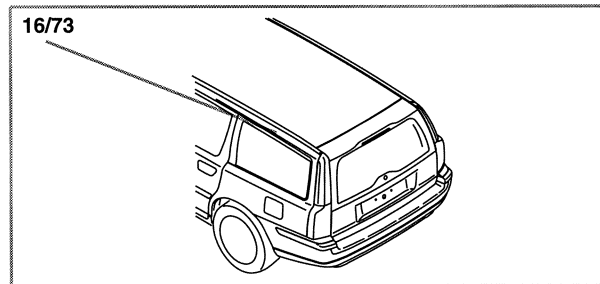
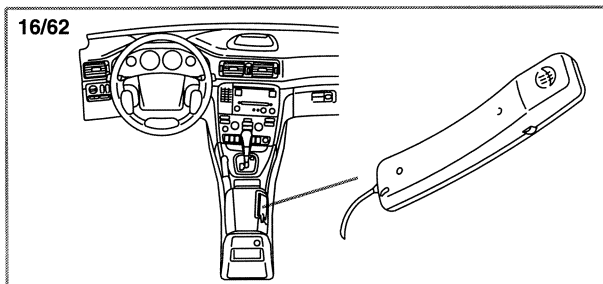
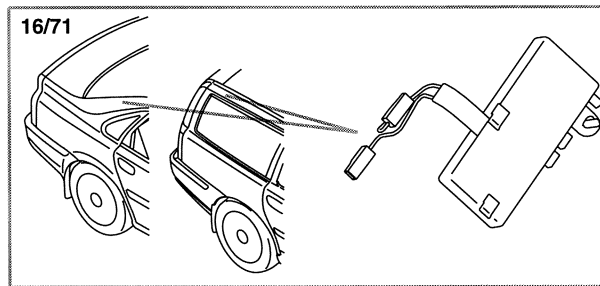
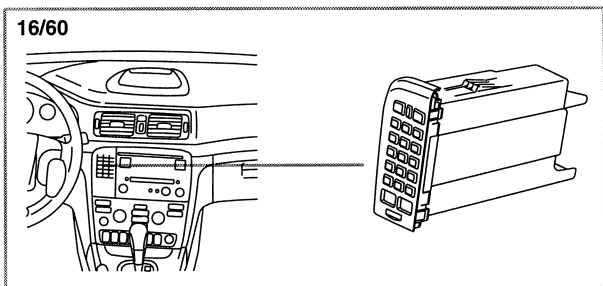
# Component illustrations 15/21 - 16/4



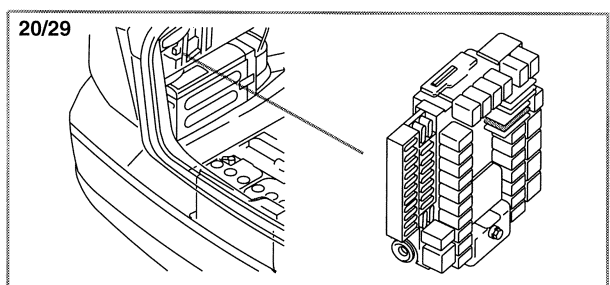
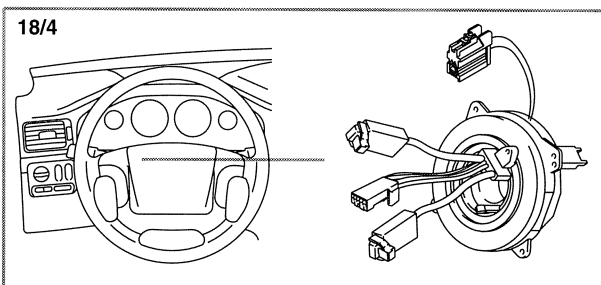
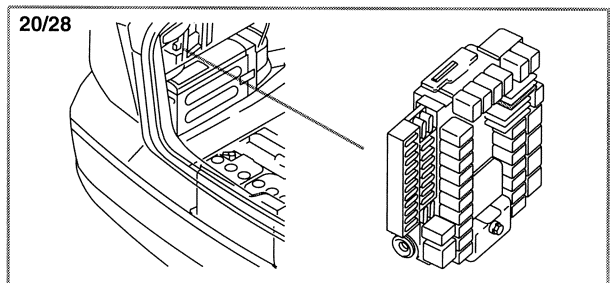
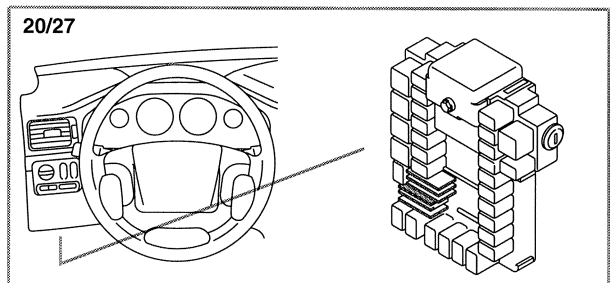
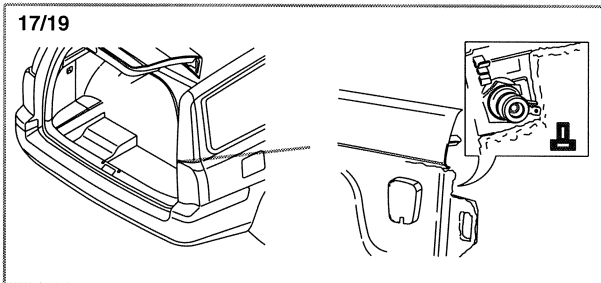
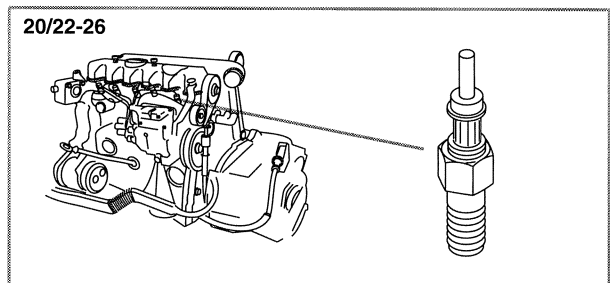
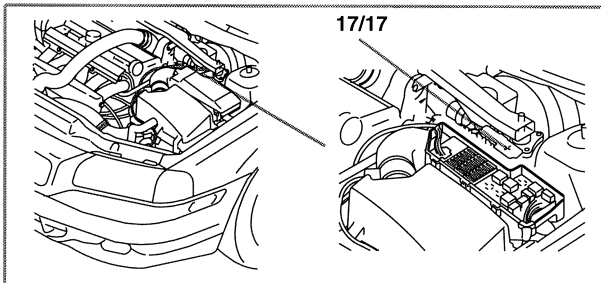
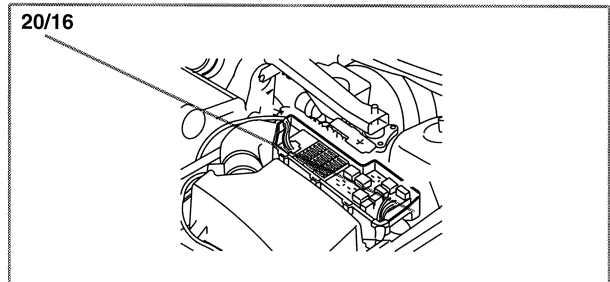
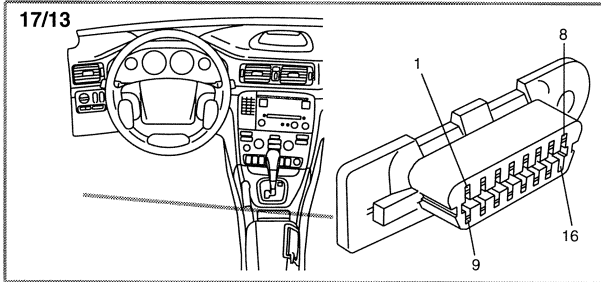
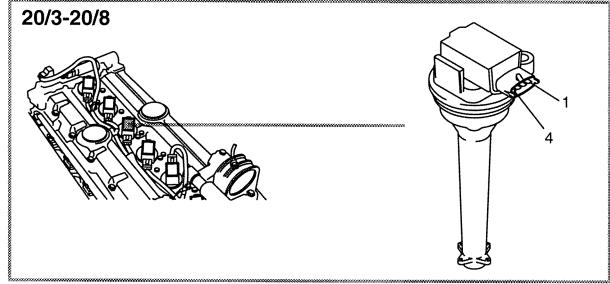


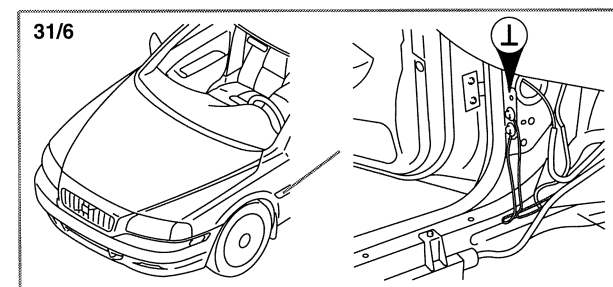
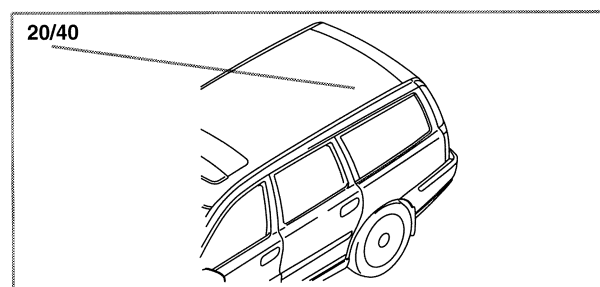
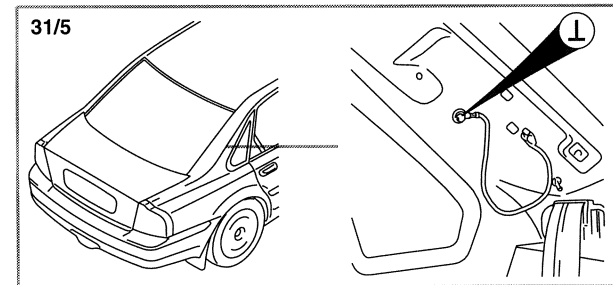
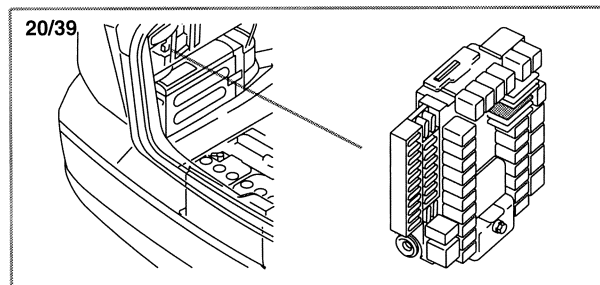
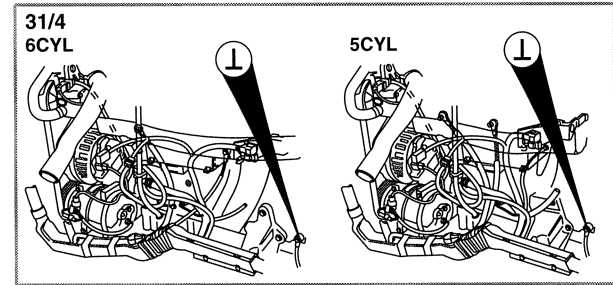
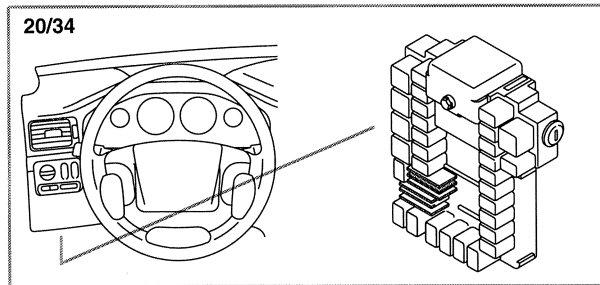
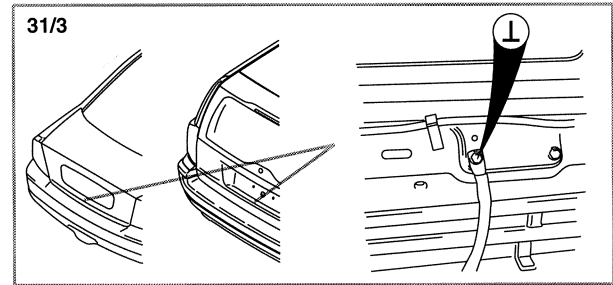
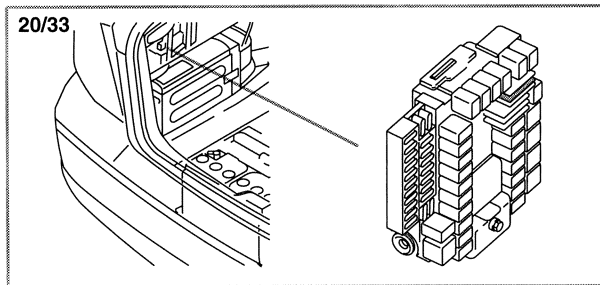
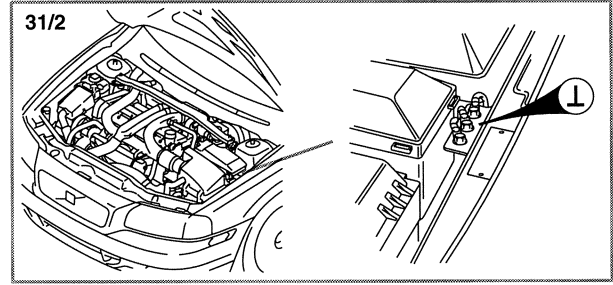
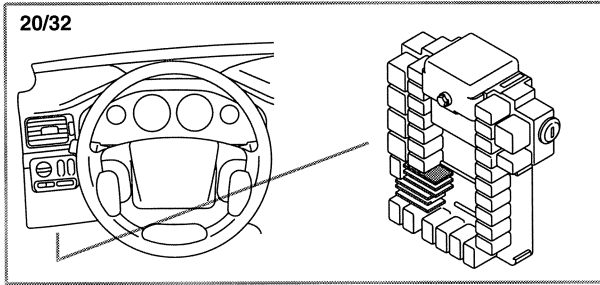
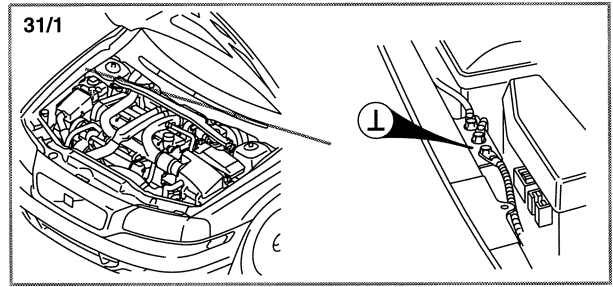
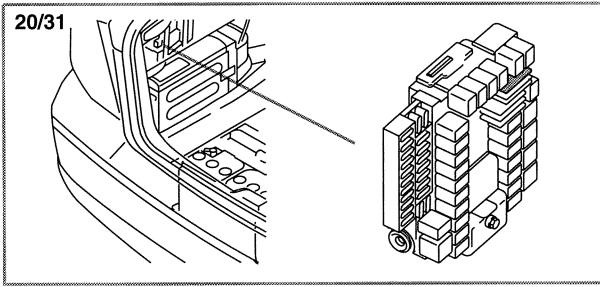
# Component illustrations 16/36 - 16/58



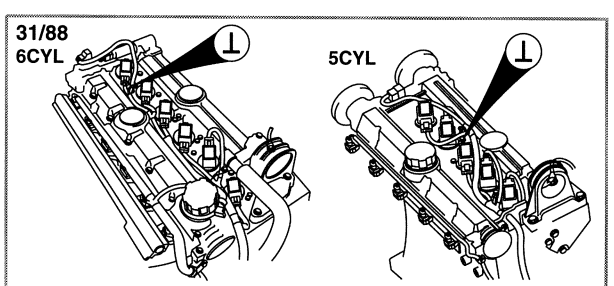
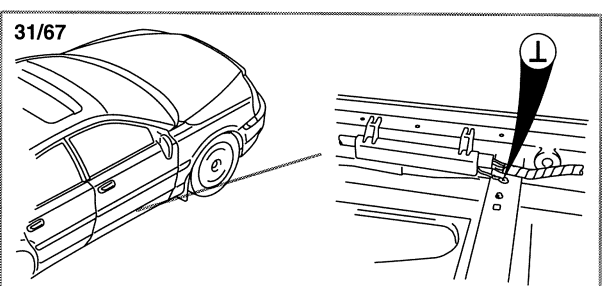
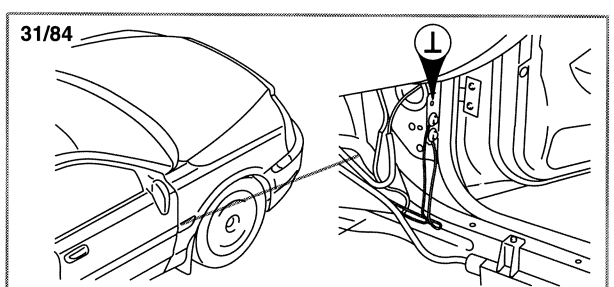
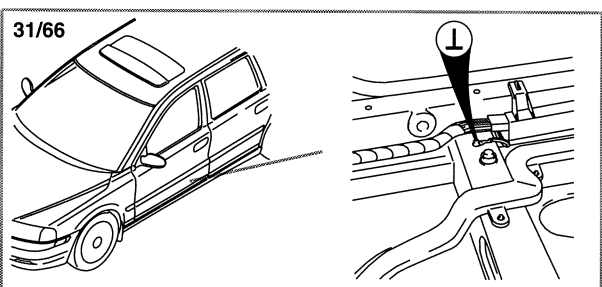
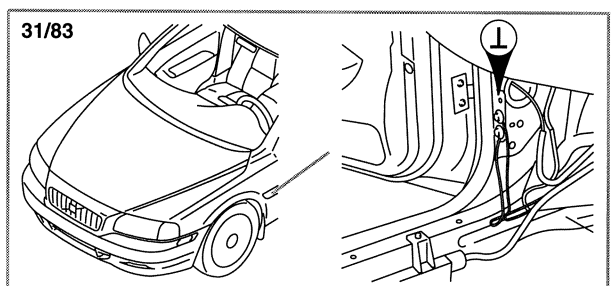
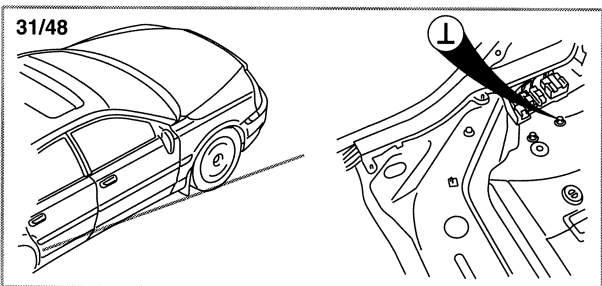
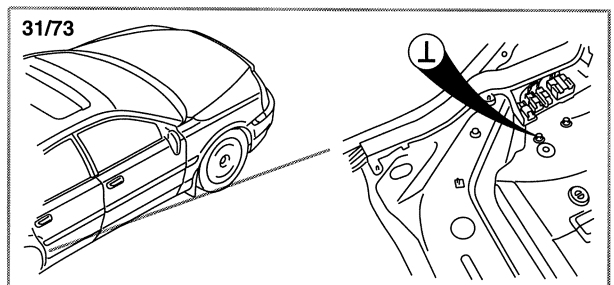
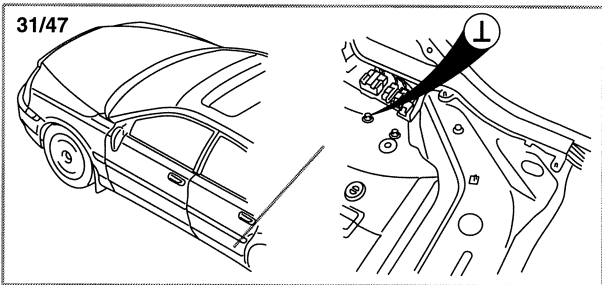
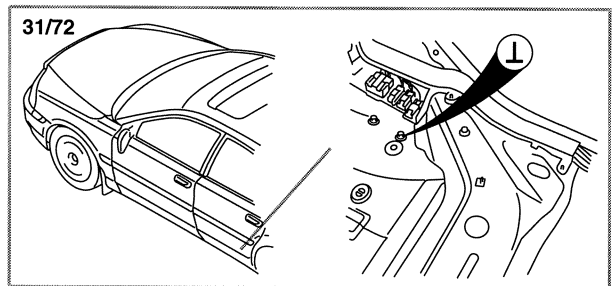
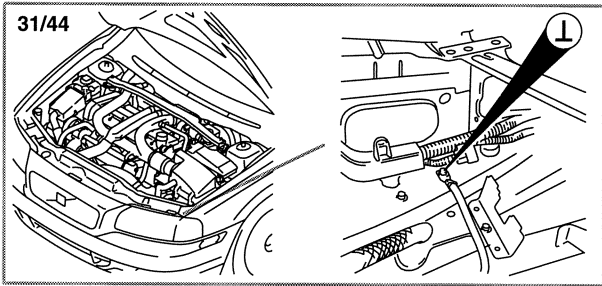
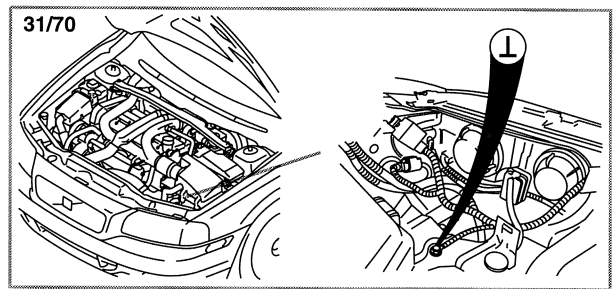
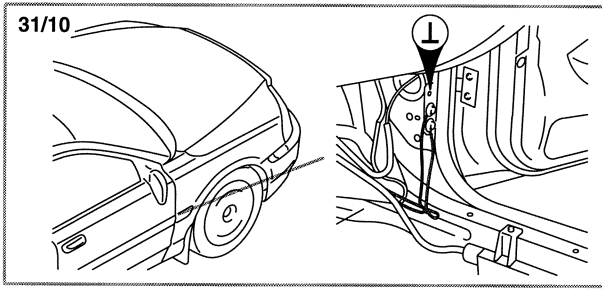


# Component illustrations 17/13 - 20/29

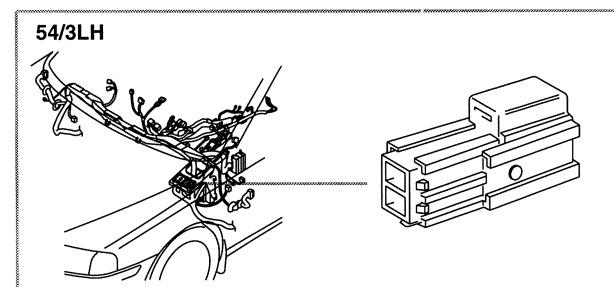
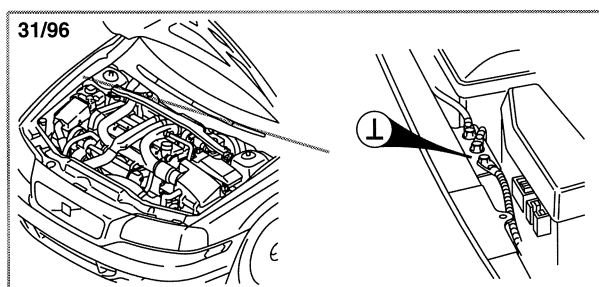
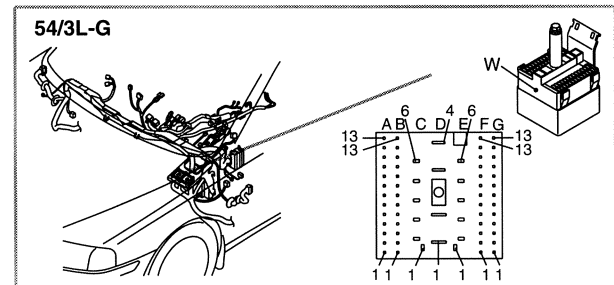
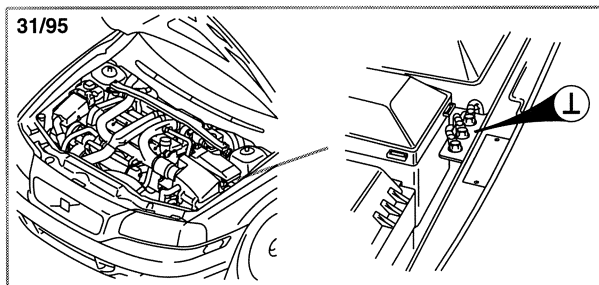
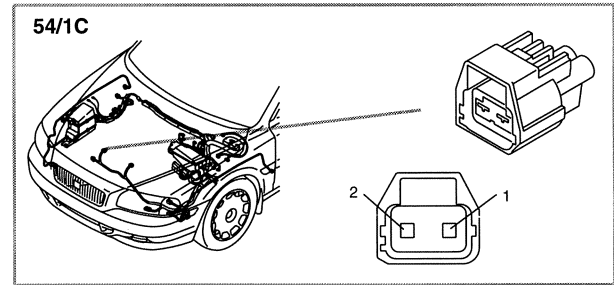
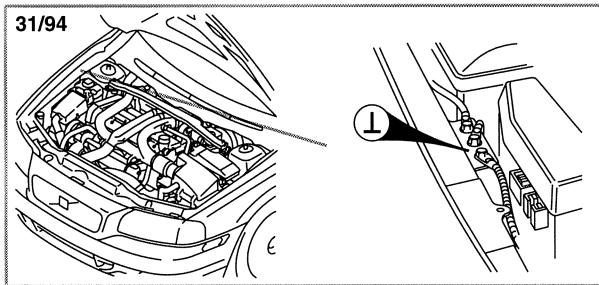
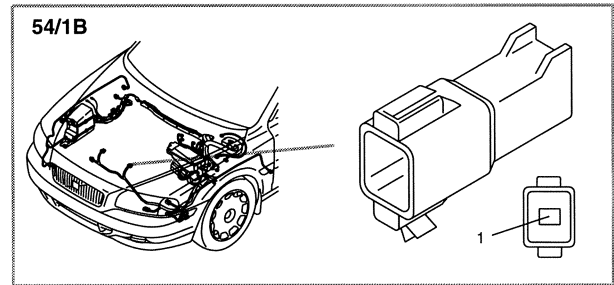
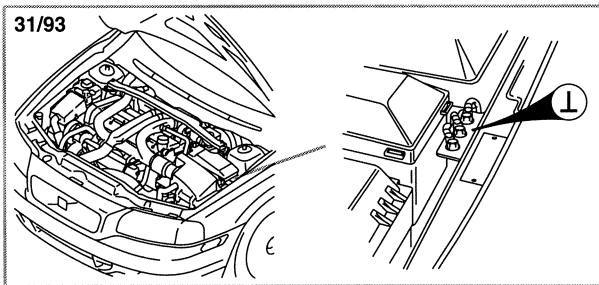
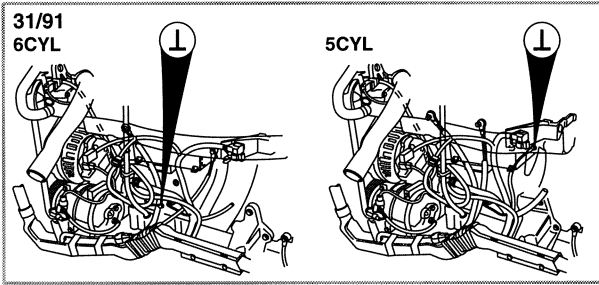
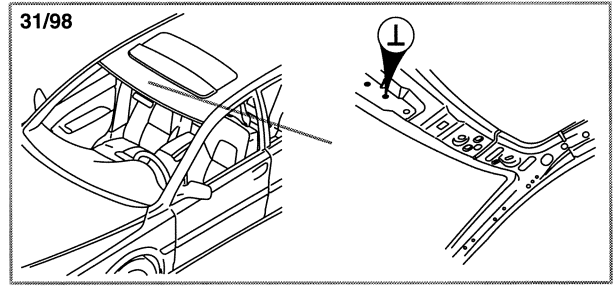
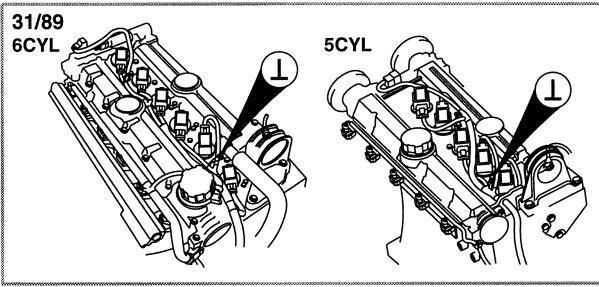




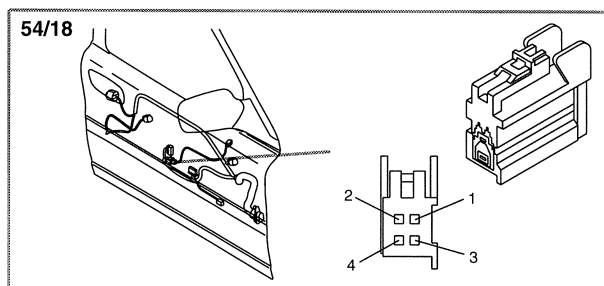
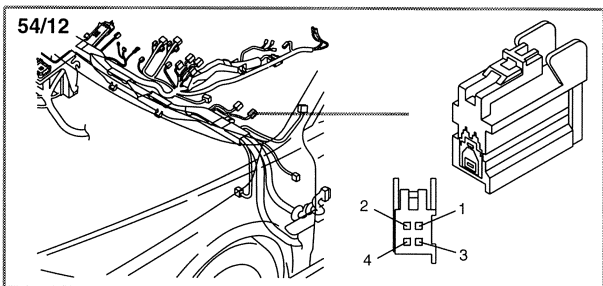
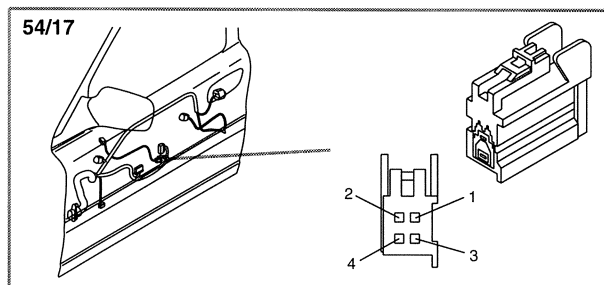
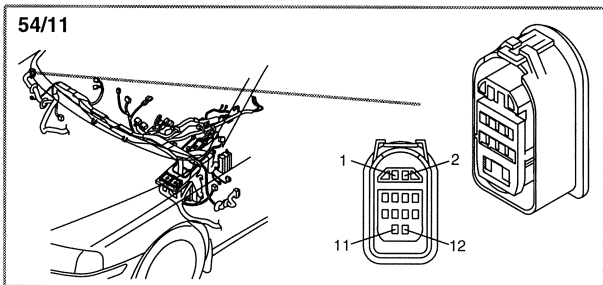
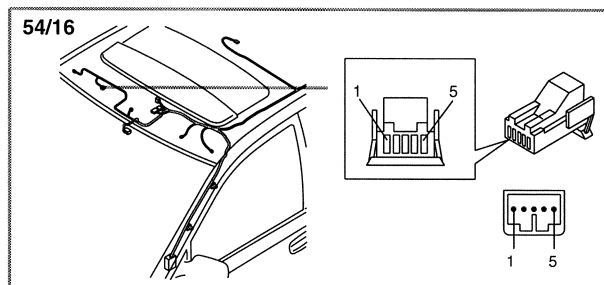
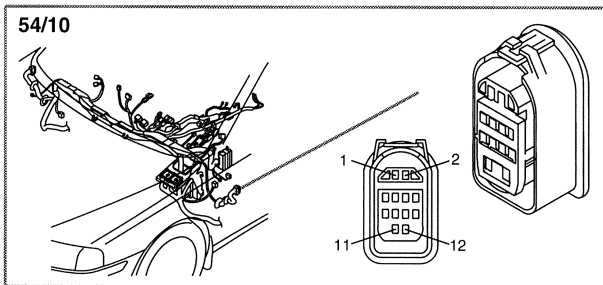
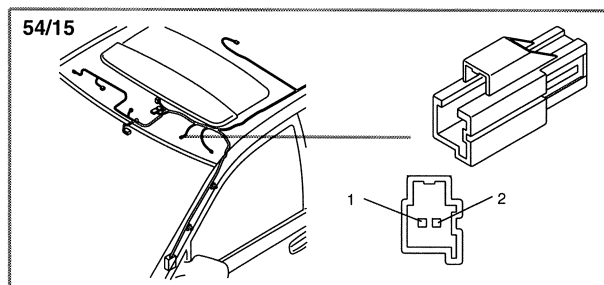
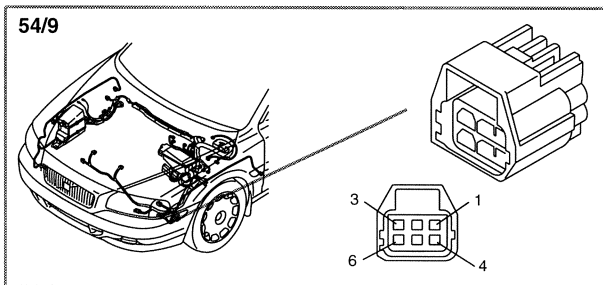
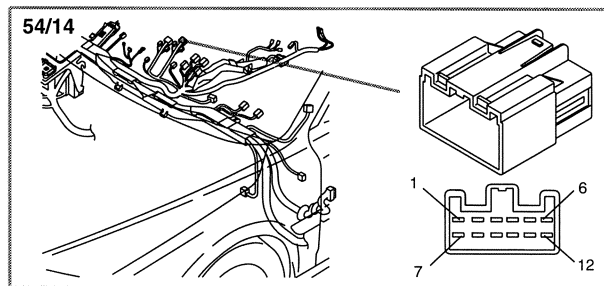
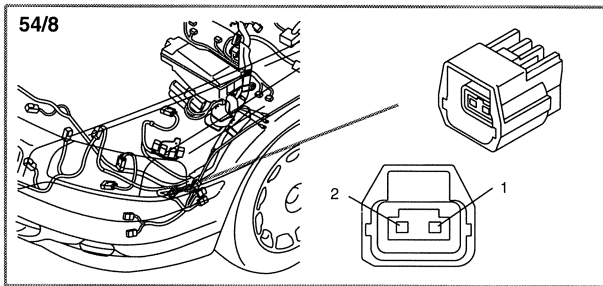
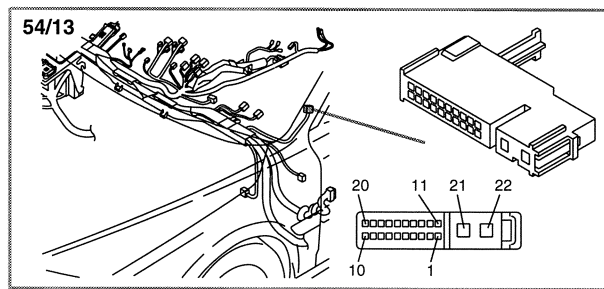
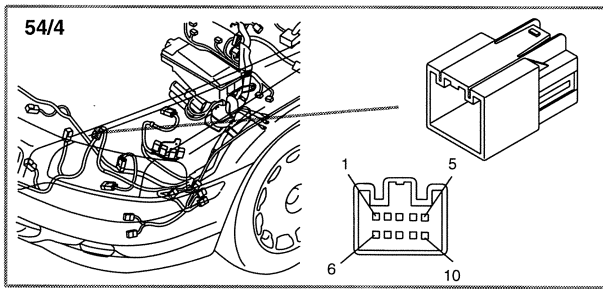
# Component illustrations 31/10 - 31/88

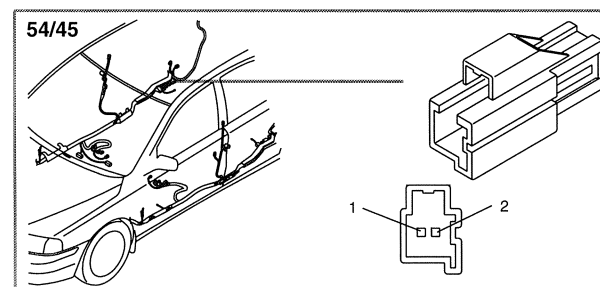
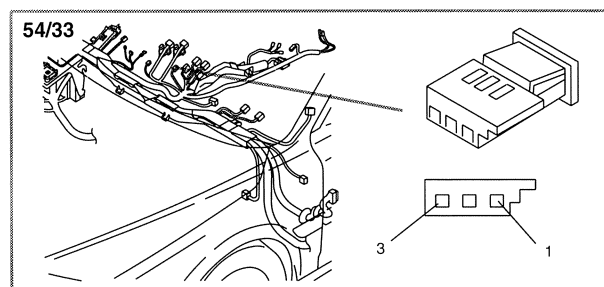
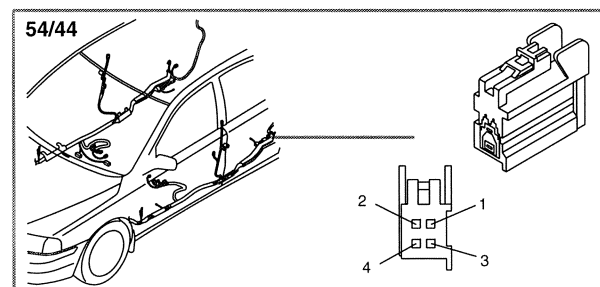
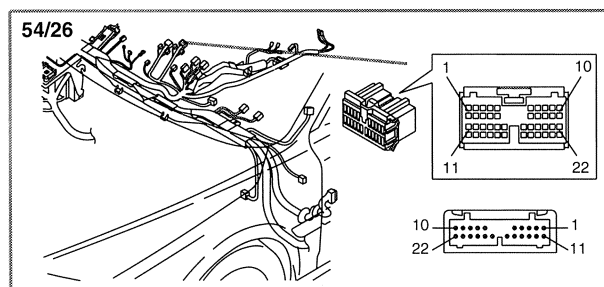
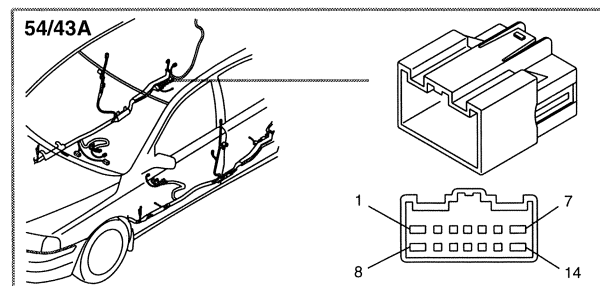
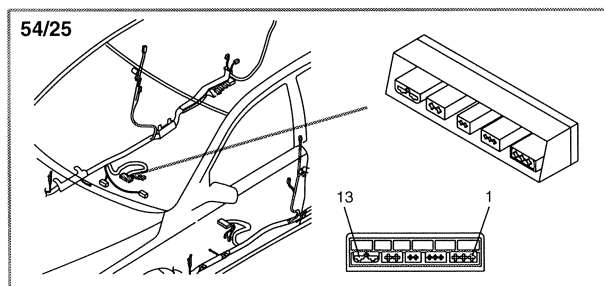
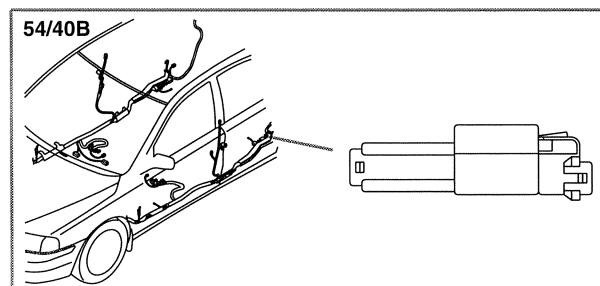
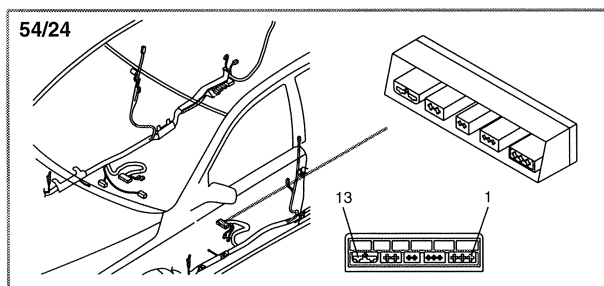
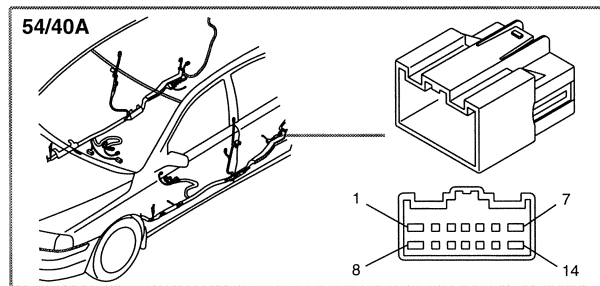
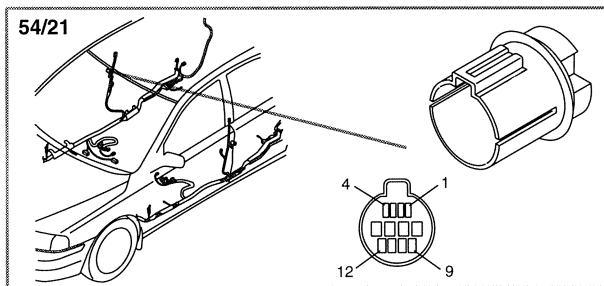
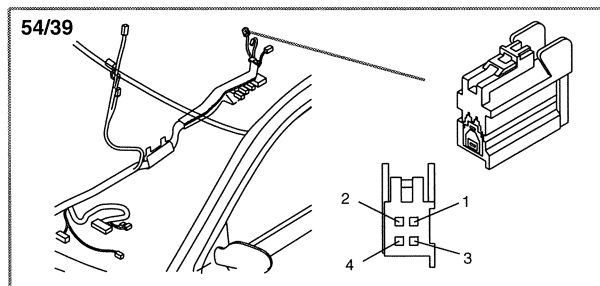
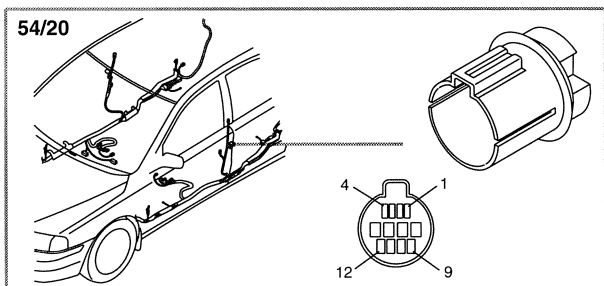




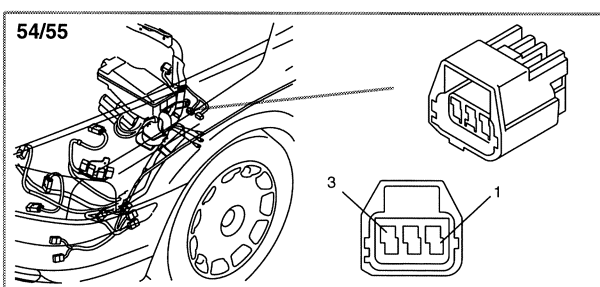
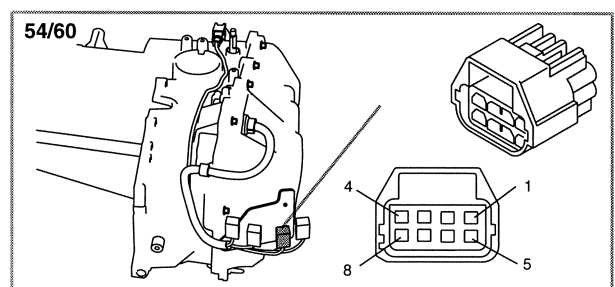
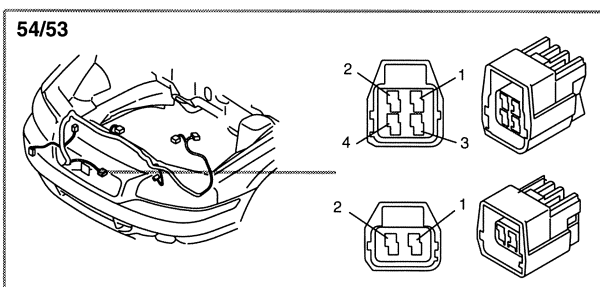
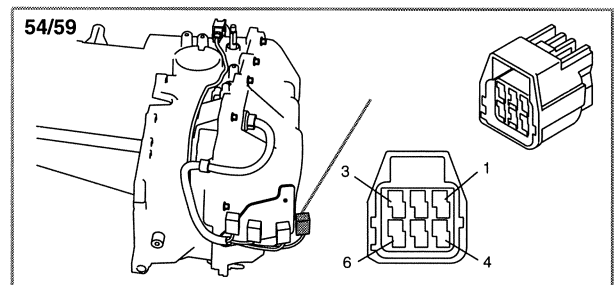
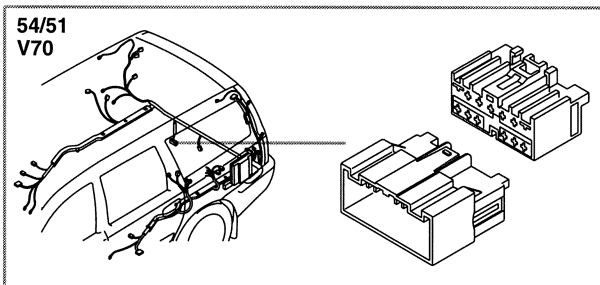
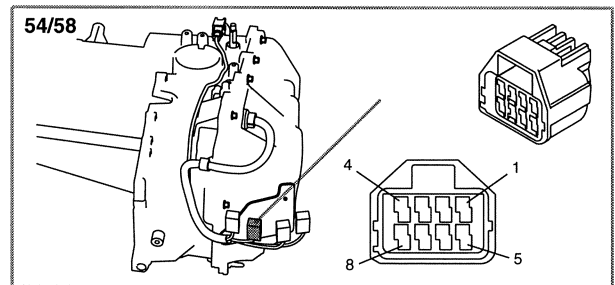
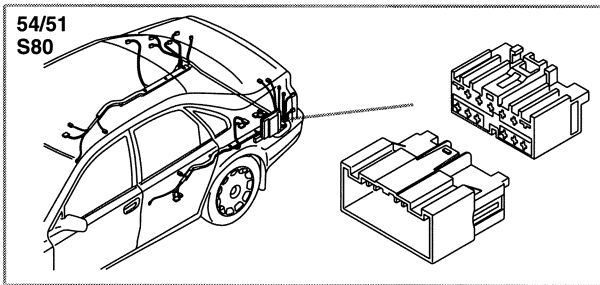
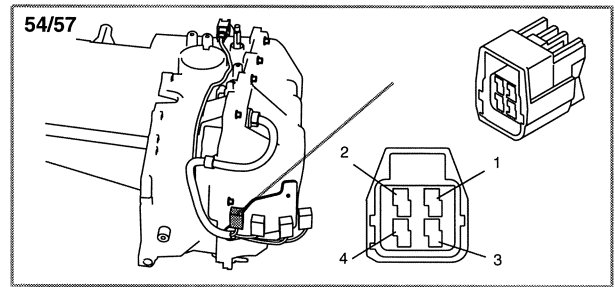
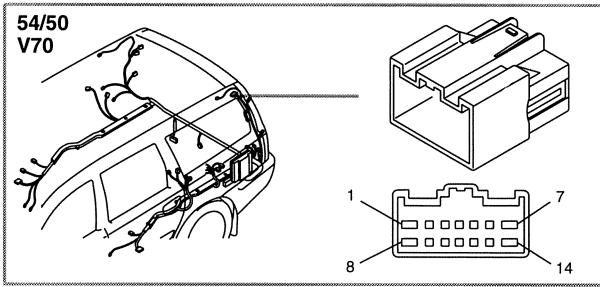
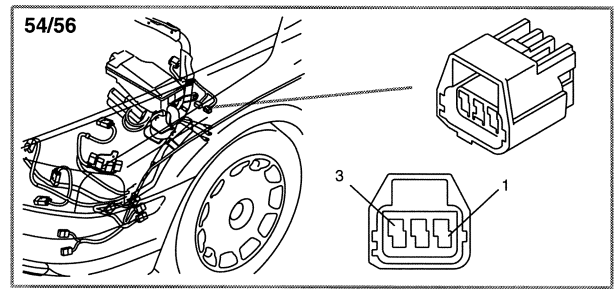
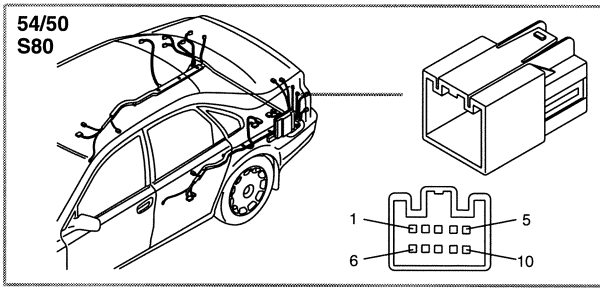


# Component illustrations 54/4 - 54/18

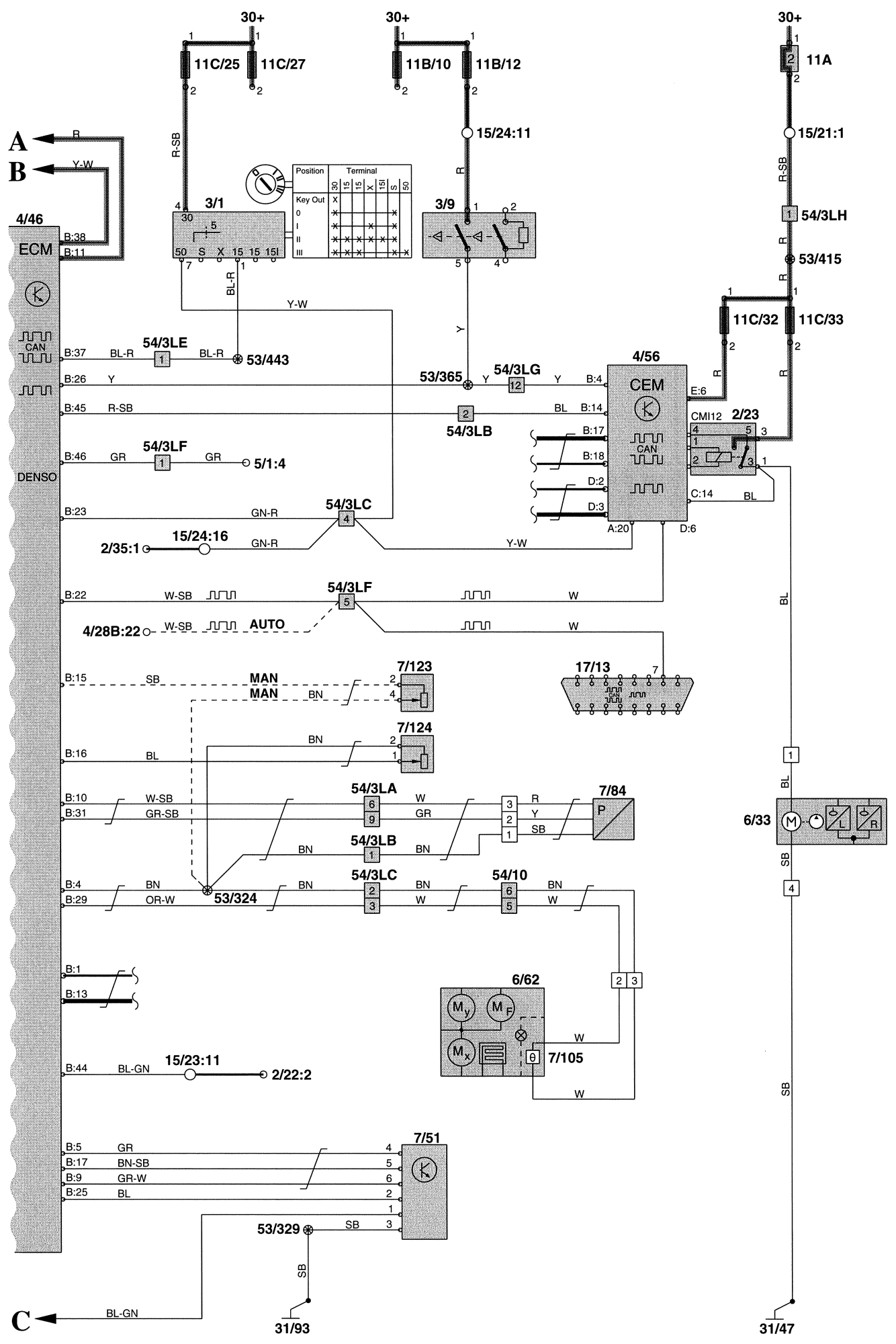




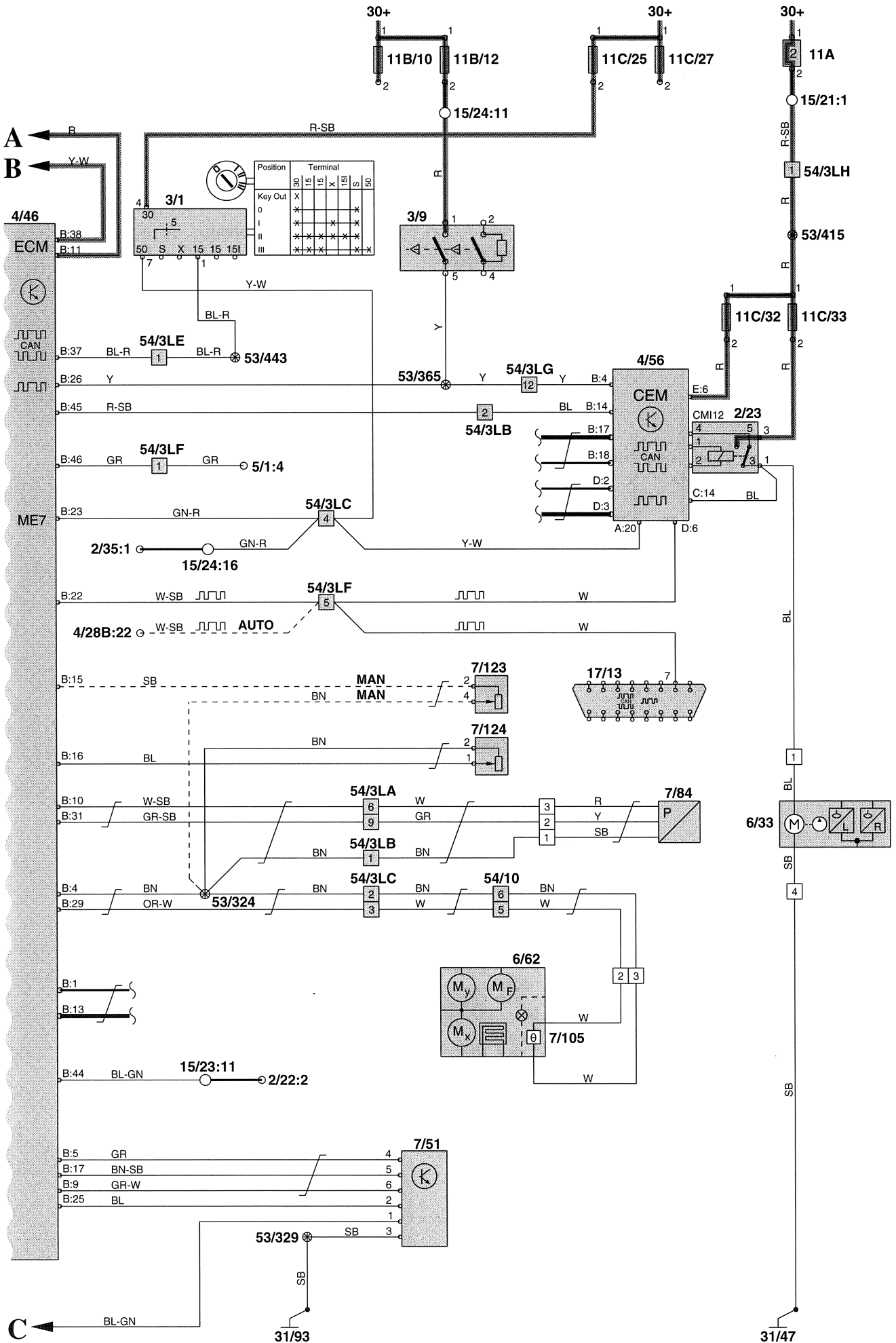
# Component illustrations 54/50 - 54/60



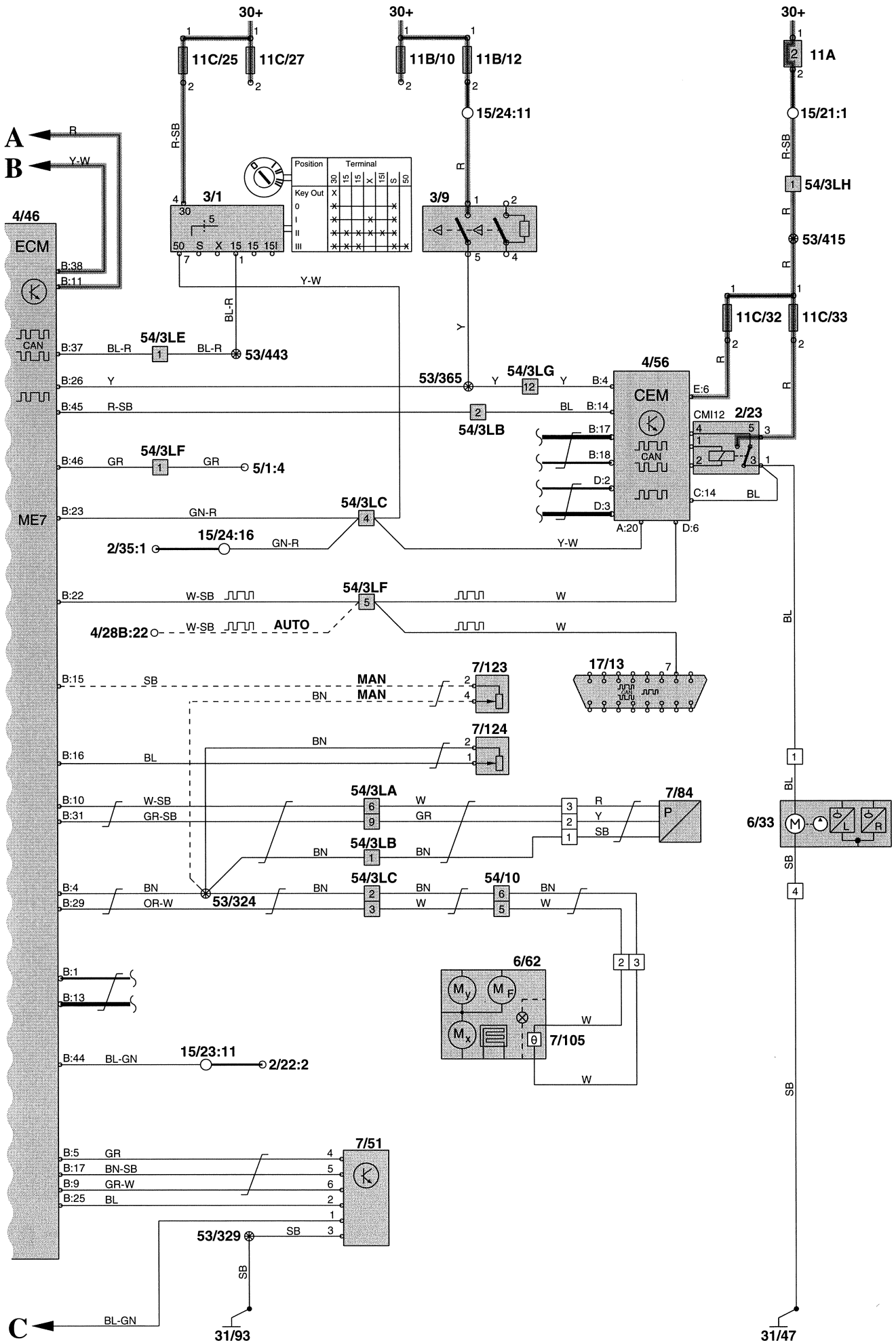
# Engine control module Denso



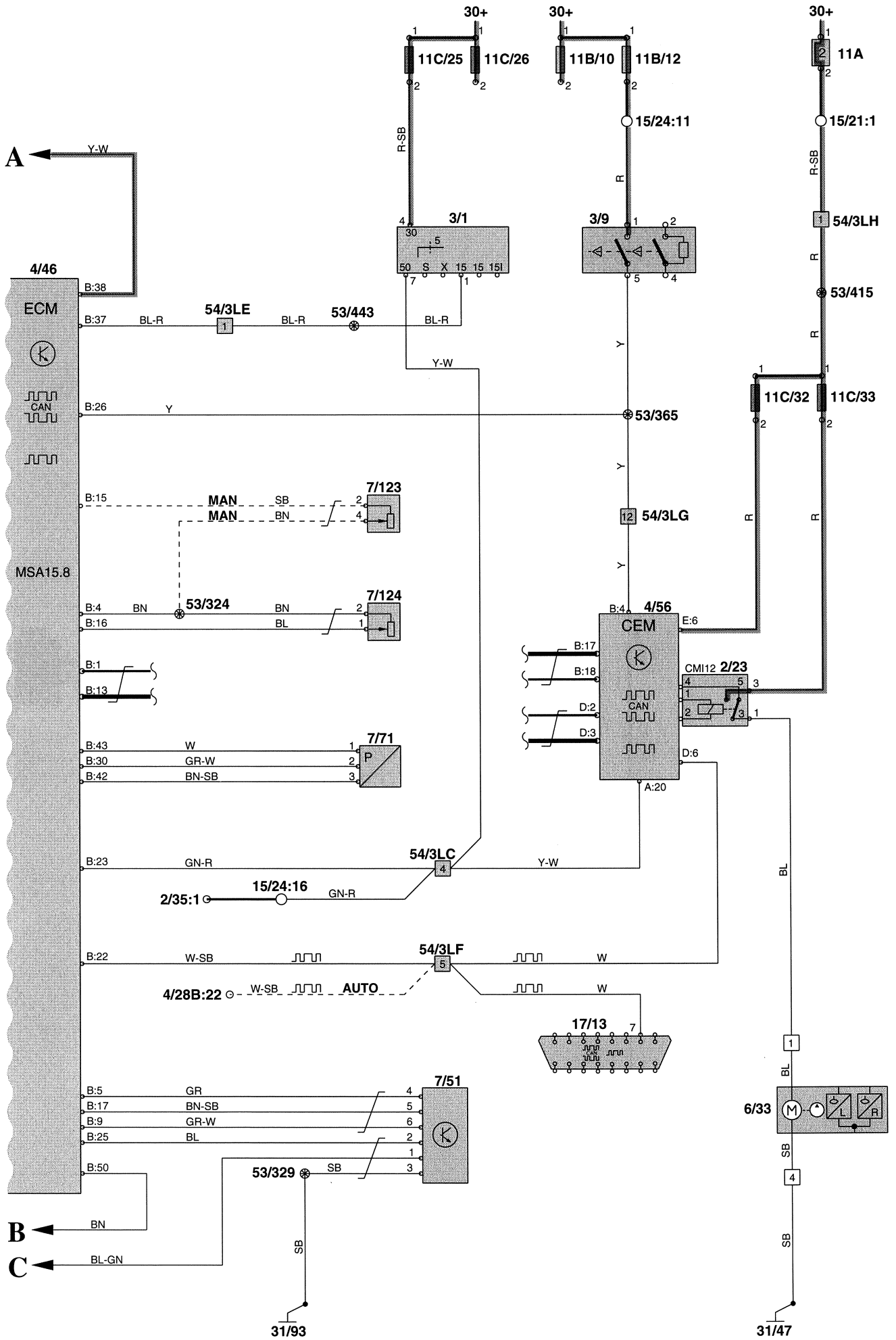
# Engine control module ME7, 5 cyl



# Engine control module ME7, 6 cyl

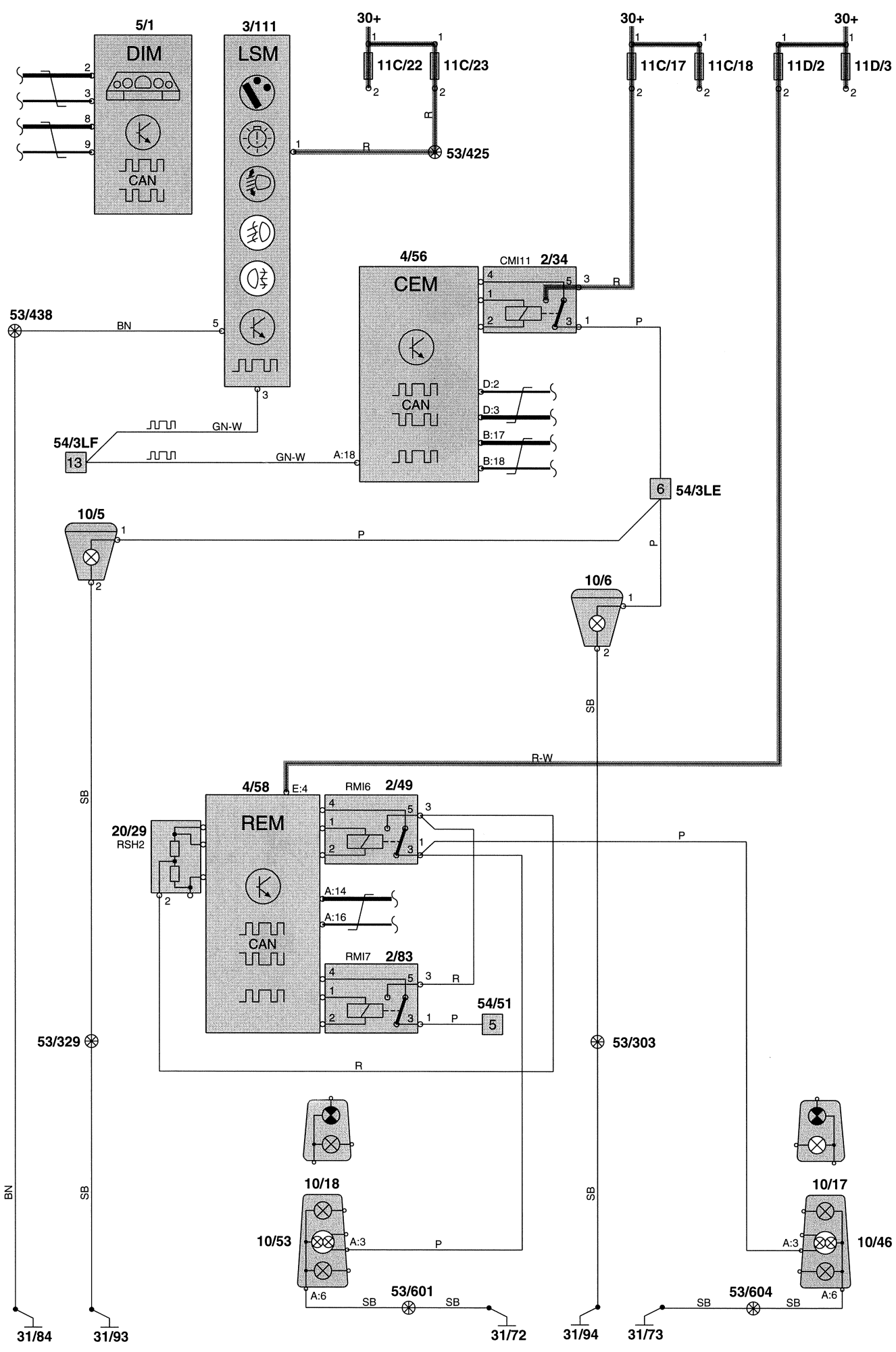


# Engine control module MSA 15.8





# Fog light V70



# Radio with extra amplifier

