

VOLVO
for life



VOLVO
WIRING DIAGRAM S60/S60R/S80

2004

TP 3970202

Vehicles with SRS (Airbag)/SIPS bag/ IC (Inflatable curtain)

Warning!

Vehicles equipped with SRS/SIPS bag/IC must be handled with extra care when making repairs. This avoids:

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 authorized 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 install 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.
- Install no accessories in the areas between the A and B posts, the B and C posts, and the C and D posts.

Test terminal

Data link connector in the passenger compartment.

Changes introduced up to March 2003

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.

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Order number TP 3970202

Replaces previous manual TP 3970201

Groups

Group 23	= Fuel system
Group 26	= Cooling system
Group 27	= Engine controls
Group 32	= Generator and voltage regulator
Group 33	= Starting system
Group 35	= Lighting
Group 36	= Additional electrical equipment
Group 37	= Wiring and fuses
Group 38	= Instruments
Group 39	= Other
Group 43	= Transmission
Group 59	= Brake system
Group 64	= Steering
Group 83	= Doors and openings
Group 84	= Exterior decorative elements etc.
Group 85	= Interior equipment
Group 87	= Climate controls
Group 88	= Internal equipment

Other

ACC	= Accessory
AMP	= Amplifier
AUDIO	= Audio system
AUTO	= Automatic transmission
Bi-X	= Bi-Xenon
CEM	= Central Electronic Module
DRL	= Daytime Running Lights
DSTC	= Dynamic Stability Traction Control
E.E	= Early edition
EXT.D	= Extended electrical distribution
HISPEED	= High speed data bus
L.E	= Late edition
LH	= Left-hand side
LHD	= Left-hand drive
LOSPEED	= Low speed data bus
MAN	= Manual transmission
PCL	= Power Child Lock
REM	= Rear Electronic Module
RH	= Right-hand side
RHD	= Right-hand drive
RTI	= Road Traffic Information
SRS	= Airbag
SULEV	= Super Ultra Low Emission Vehicle
SUM	= Suspension Module
TELE	= Mobile telephone
T	= Turbo engine
ULEV	= Ultra Low Emission Vehicle
W/O	= Without
2VVT	= 2 Variable Valve Times
5CYL	= 5-cylinder engine
6CYL	= 6-cylinder engine

Ignition switch symbols

X	= Accessories (audio position)
S	= Powered upon insertion of key
15	= The switch remains connected during start
15l	= Contact is broken while starting
30	= Constant power from the battery
50	= Start

Countries/Markets

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

How to use the wiring diagrams

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

The list shows which type of component that respective type numbers refer to, for example, 3/x = switch, 6/x = electric motor, etc.

- | | |
|----|----------------------------------|
| 1 | Battery |
| 2 | Relay |
| 3 | Switch |
| 4 | Control module |
| 5 | Driver information module |
| 6 | Electric motor |
| 7 | Sensor |
| 8 | Actuator |
| 9 | Heating element |
| 10 | Light |
| 11 | Fuse |
| 15 | Electrical distribution rail/box |
| 16 | Audio |
| 17 | Service/diagnostics |
| 18 | Contact reel |
| 19 | Meter |
| 20 | Ignition component/shunt |
| 27 | Optics |
| 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 cables harnesses and are described in the "Connectors" section.

D. Electrical distribution

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

E. Data communication

Today's cars are equipped with a CAN network, which transmits information. Connections to this network are shown in their entirety on the respective wiring diagrams. Complete information on CAN communication is can be found in the section titled "Data communication".

F. Abbreviations

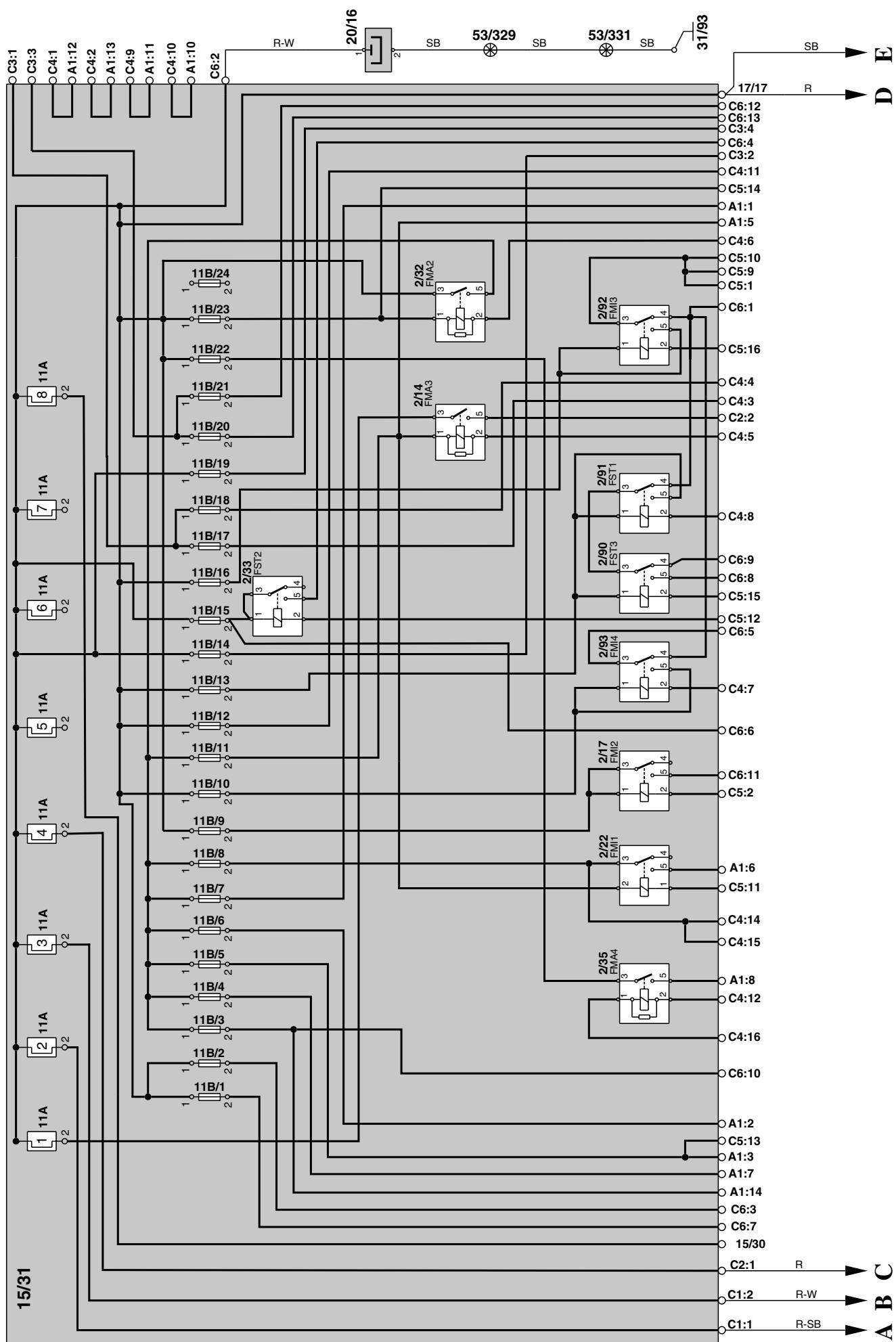
A number of different abbreviations are used in the manual. These are explained in the section "Abbreviations".

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.

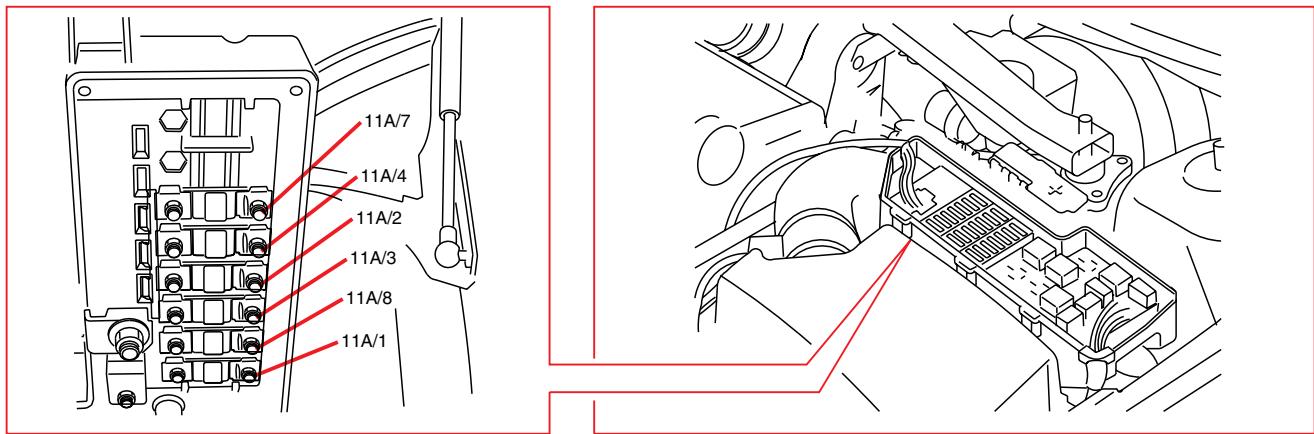
Electrical distribution

Overview



Fuses

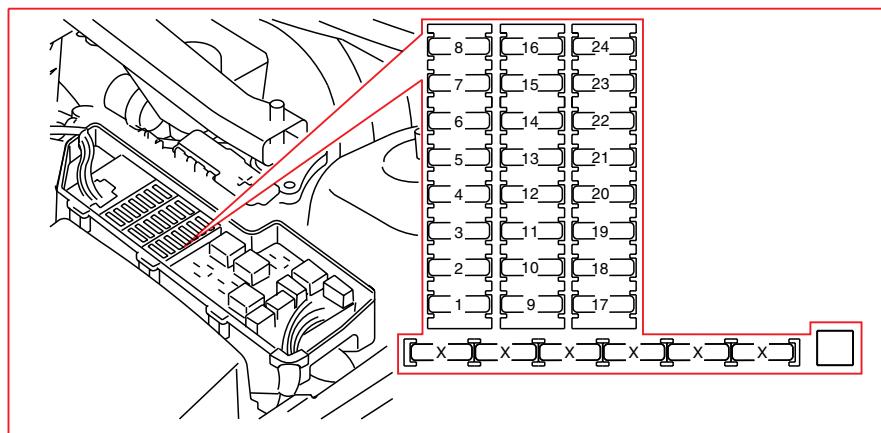
Engine compartment 11A/1-8



11A Fuses in the engine compartment

No.	Fuse function		via	A
1	20/22-26	Glow plug	2/14	60
2	11C/30-31	Fuses in the passenger compartment	2/61	60
	11C/32-33	Fuses in the passenger compartment		
	11C/34-37	Fuses in the passenger compartment		
3	11C/1-4	Fuses in the passenger compartment	2/31 2/30	60
	11C/5-9	Fuses in the passenger compartment		
	11C/12-15	Fuses in the passenger compartment		
	11C/16-19	Fuses in the passenger compartment		
4	11C/21-24	Fuses in the passenger compartment		60
	11C/25-29	Fuses in the passenger compartment		
7	Accessories			60
8	6/29	Motor, electric cooling fan	4/71	60

Fuses Engine compartment 11B/1-9

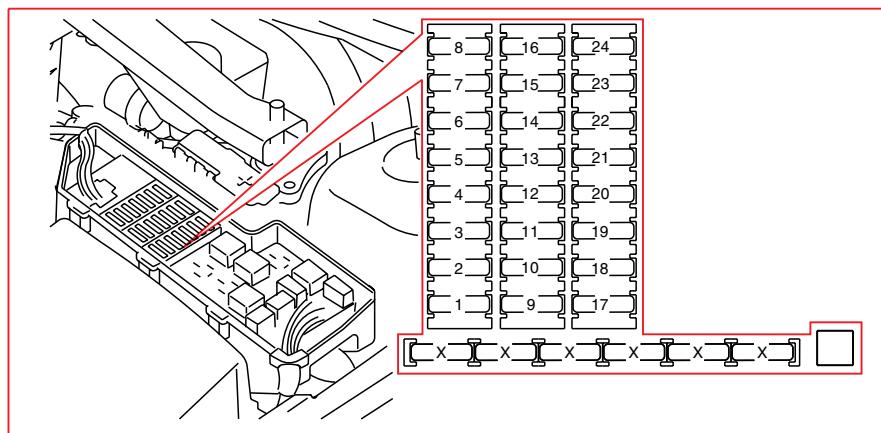


11B Fuses in the engine compartment

No.	Fuse function	via	A
1	6/35 Fuel pump, auxiliary heater 6/73 Coolant pump, auxiliary heater 9/30 Auxiliary heater	4/7 4/7 4/7	25
2	Accessory (auxiliary light)		20
4	4/46 Engine Control Module (ECM), Diesel, Bi-fuel 7/15 Heated oxygen sensor 7/82 Heated oxygen sensor, diagnosis 1 7/103 Heated oxygen sensor 3 7/104 Heated oxygen sensor 4 (diagnostic probe) 8/111 Solenoid valve, high-pressure diesel		20
5	6/67 Pump, fuel leakage control 6/105 Fuel distributor, gas 8/18 EVAP valve 8/19 Solenoid, variable valve time, inlet 8/28 Turbocharger control valve 8/75 Valve, fuel cut-off DFCO 8/81 Solenoid, variable valve timing outlet 9/32 PTC resistor, air preheating, 5-cyl Petrol, Bi-Fuel		10
6	7/17 Mass airflow sensor MAF, Diesel 4/46 Engine Control Module (ECM), Gasoline 7/17 Mass airflow sensor (MAF), Gasoline 8/6-11 Injectors		5 15
7	4/46 Engine Control Module (ECM), 5-cyl normally aspirated 4/50 Electronic Throttle Module (ETM), Bi-Fuel		10
8	6/44 Cooling fan, electrics box, engine compartment 7/51 Accelerator pedal sensor 8/3 Electromagnetic clutch, climate control system		10
9	2/17 Horn relay 16/10 Horn 1 16/11 Horn 2	2/22 2/17 2/17	15
	continues		

Fuses

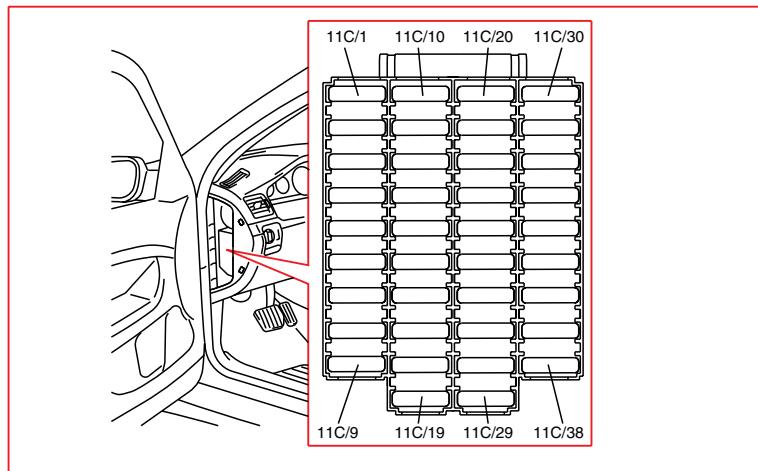
Engine compartment 11B/11-23



11B Fuses in the engine compartment

No.	Fuse function	via	A
11	2/14 Relay, glow plug unit 2/22 Relay, climate control system 8/17 EGR valve, Diesel 8/64 Solenoid valve, engine mounting, Diesel 8/82 Solenoid, variable turbo geometry, Diesel 9/32 PTC resistor, air preheating, diesel 20/3-8 Spark plug and ignition coil		20
12	3/9 Brake light contact		5
13	2/90 Relay, windshield wiper, low/high speed 2/91 Relay, intermittent wiping 6/1 Windshield wiper motor	2/90, 2/91	25
14	4/16 Brake Control Module (BCM)		30
15	2/33 Relay, Bi-Fuel fuel system 8/79 Valve LPG	2/33	15
16	2/92 Relay, windshield washer motor 6/2 Windshield washer pump 6/3 Right-hand headlight wiper motor 6/4 Left-hand headlight wiper motor	2/92 2/92 2/92	15
17	10/66 Low beam/Bi-Xenon, right		10
18	10/70 Low beam/Bi-Xenon, left		10
19	4/16 Brake Control Module (BCM)		30
20	10/68 Left-hand high beam		15
21	10/64 Right-hand high beam		15
22	6/25 Starter motor	2/35	25
23	2/32 Engine management system main relay 4/46 Engine Control Module (ECM), Gasoline		5

Fuses Passenger compartment 11C/1-9

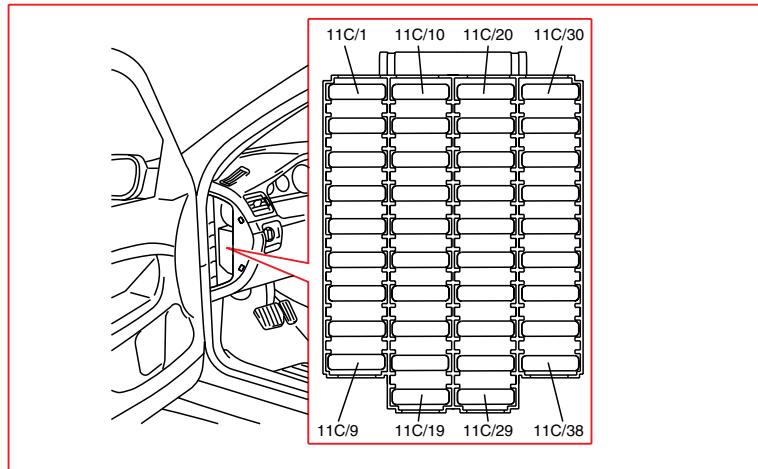


11C Fuses in the passenger compartment

No.	Fuse function	via	A
1	11B/17 Fuses in the engine compartment 11B/18 Fuses in the engine compartment 11C/10 Fuse in passenger compartment fuse box 11C/11 Fuse in passenger compartment fuse box	20/27, 2/62 20/27, 2/62 20/27, 2/152 20/27, 2/152	15
2	11B/20 Fuses in the engine compartment 11B/21 Fuses in the engine compartment	2/63 2/63	20
3	6/16 Driver seat motor, backrest angle 6/17 Driver seat motor, up/down front edge 6/18 Driver seat motor, up/down rear edge 6/19 Driver seat motor, forward/backward	4/52 4/52 4/52 4/52	30
4	6/20 Passenger seat motor, forward/backward 6/64 Passenger seat motor, backrest angle 6/65 Passenger seat motor, up/down front edge 6/66 Passenger seat motor, up/down rear edge	3/27 3/27 3/27 3/27	30
5	4/99 Electronic power steering control module 6/71 Stepper motor, speed-dependent power steering 6/114 Vacuum pump	4/99 8/84	15
6	8/76 Gas tank valve, Bi-Fuel 8/88 Solenoid, gas tan CNG rear 8/89 Solenoid, fuel tank CNG front left 8/90 Solenoid, fuel tank CNG front right	2/140 2/140 2/140 2/140	5
7	9/12 Left seat heater		15
8	9/13 Right seat warmer		15
9	4/16 Brake Control Module (BCM) 4/68 Steering Angle Sensor module SAS		5
	continues		

Fuses

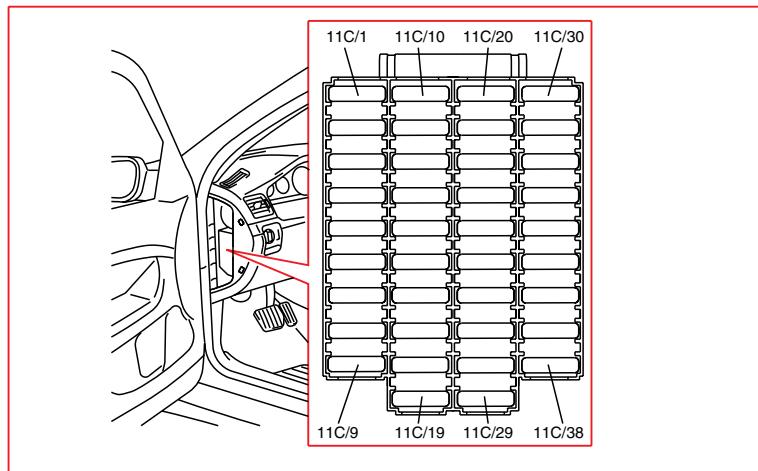
Passenger compartment 11C/10-21



11C Fuses in the passenger compartment

No.	Fuse function	via	A
10	10/1 Left front lamp housing, daytime running lights		10
11	10/2 Right front lamp housing, daytime running lights		10
12	6/3 Right-hand headlight wiper motor 6/4 Left-hand headlight wiper motor 6/38 Left-hand headlight level adjustment motor 6/39 Right-hand headlight adjustment motor		15
13	9/1 Front 12V outlet 9/25 Rear 12V outlet		15
14	3/27 Power passenger seat module		5
15	16/1 Audio Module (AUM) 16/46 RTI Display		5
16	16/1 Audio Module (AUM)		20
17	16/2 Amplifier		30
18	10/5 Front left fog light 10/6 Front right fog light	2/34 2/34	15
19	16/46 RTI Display		10
21	3/156 Gear Selector Module (GSM), Geartronic 4/28 Transmission Control Module (TCM) 8/36 Shift lock solenoid	2/101 2/101 2/101, 3/156	10
	continues		

Fuses
Passenger compartment 11C/22-27

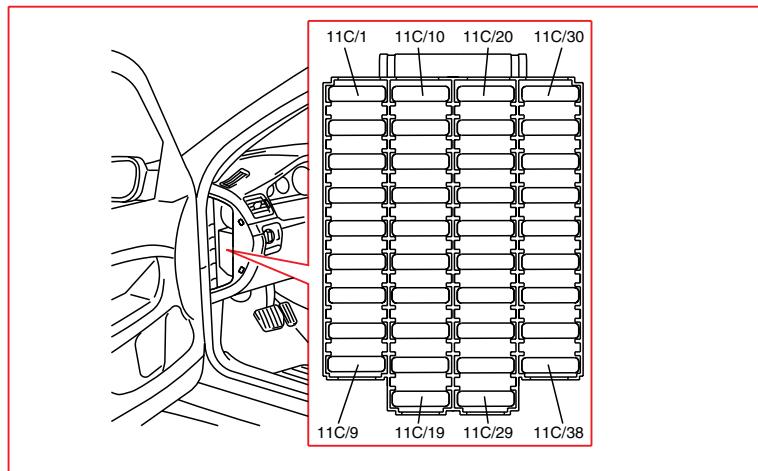


11C Fuses in the passenger compartment

No.	Fuse function	via	A
22	4/56 Central Electronic Module CEM 10/13 Front left direction indicator 10/14 Front right direction indicator 10/15 Front left fender direction indicator 10/16 Front right fender direction indicator 10/47 Rear right direction indicator 10/54 Rear left direction indicator	4/56, 2/32 4/56, 2/34 4/56, 2/32 4/56, 2/34 4/56, 2/34 4/56, 2/32	20
23	3/111 Light Switch Module (LSM) 3/112 Climate Control Module (CCM) 3/130 Steering Wheel Module (SWM) 17/13 Data link connector		5
24	3/112 Climate Control Module (CCM) 4/7 Combustion Preheater Module (CPM) 4/52 Power Seat Module (PSM) 5/1 Driver Information Module (DIM)	2/29 2/29 2/29 2/29	10
25	2/30 X feed overload relay 2/31 15-feed overload relay 2/35 Starter motor relay 4/9 Control module, Supplemental Restraint System (SRS) 4/46 Engine Control Module (ECM) 4/56 Central Electronic Module CEM 16/65 Antenna ring/ignition switch lighting	3/1 3/1 3/1 3/1 3/1 3/1 3/1	10
26	6/28 Motor, passenger compartment fan	4/31	30
27	4/84 Suspension Module (SUM)	2/174	15
	continues		

Fuses

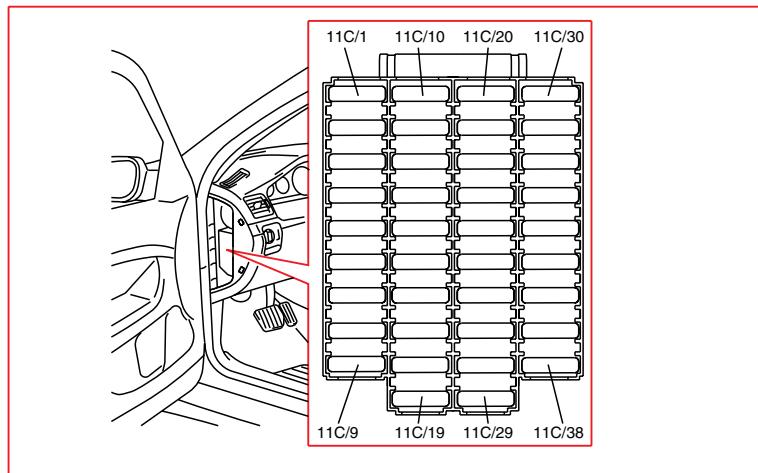
Passenger compartment 11C/28-31



11C Fuses in the passenger compartment

No.	Fuse function	via	A
28	3/117 Dome light control module 4/70 Upper Electronic Module UEM 4/76 Remote control unit for garage door opener 7/149 Rain sensor 10/25 Ceiling light, cargo compartment 10/114 Left-hand vanity mirror lighting 10/115 Right-hand vanity mirror lighting 10/150 Rear reading light	4/70 4/70 4/70 4/70 4/70 4/70 4/70	10
29	16/60 Phone Module (PHM)		10
30	10/1 Front left lamp housing, Bi-Xenon electronic unit 10/11 Position/parking light, front left, EU/OS 10/51 Left-hand tail light lamp 1 10/52 Left-hand tail light lamp 2 10/71 Side marker light, front left, S80 10/129 Position/parking light, front left, USA/CDN 54/51:11 Connector, rear accessory wiring	20/28 20/28 54/40:1	7,5
31	10/2 Front right lamp housing, Bi-Xenon electronic unit 10/3 License plate lighting 10/12 Position/parking light, front right, EU/OS 10/42 Position/parking light, rear right 10/44 Right-hand tail light lamp 1 10/45 Right-hand tail light lamp 2 10/49 Rear left position/parking light 10/73 Side marker light, front right, S80 10/130 Position/parking light, front right, USA/CDN 54/51:8 Connector, accessory wiring	20/3 20/3 54/40:8, 53/609	7,5
	continues		

Fuses
Passenger compartment 11C/32-38

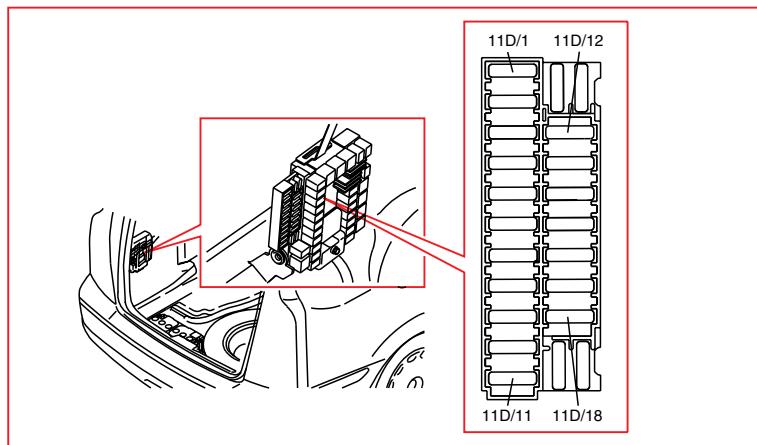


11C Fuses in the passenger compartment

No.	Fuse function	via	A
32	4/56 Central Electronic Module CEM 11C/38 Fuse in passenger compartment		10
33	4/56 Central Electronic Module CEM 4/83 Fuel pump control module 6/31 Feed pump, ejectors 6/33 Fuel pump	2/33 2/23	15
34	6/15 Sunroof motor	4/33	15
35	3/74 Left-hand front door lock unit 3/126 Driver/Passenger Door Module (DDM/PDM) 6/62 Left-hand power door mirror 9/33 Left-hand heated door mirror 10/148 Left-hand rearview mirror lighting	3/126 3/126 3/126 3/126	25
36	3/75 Right-hand front door lock unit 3/127 Passenger/Driver Door Module (PDM/DDM) 6/63 Right-hand power door mirror 9/34 Right-hand heated door mirror 10/149 Right-hand rearview mirror lighting	3/127 3/127 3/127 3/127	25
37	2/138 Deadlock relay, left-hand rear door 2/139 Deadlock relay, right-hand rear door 3/85 Rear left door power window switch 3/86 Rear right door power window switch 6/92 Motor, rear left power window 6/93 Motor, rear right power window 10/151 Left-hand rear door switch lighting 10/152 Right-hand rear door switch lighting	2/120 2/120 2/116, 2/118 2/117, 2/119 3/85 3/86 2/120 2/120	30
38	16/35 Siren Control Module (SCM)		5

Fuses

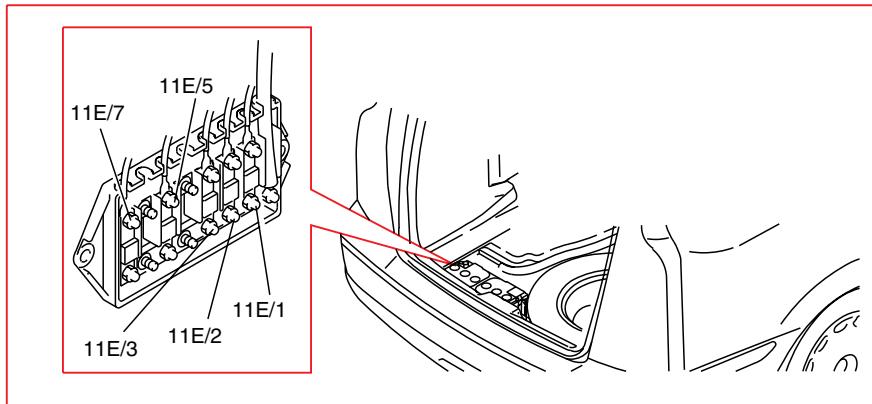
Cargo compartment 11D/1-18



11D Fuses in the cargo compartment

No.	Fuse function	via	A
1	4/58 Rear Electronic Module (REM) 10/127 Lighting, cargo compartment, left-hand side 10/128 Lighting, cargo compartment, right-hand side	4/58 4/58	10
2	4/58 Rear Electronic Module (REM) 10/46 Fog light, right rear 10/53 Fog light, left rear 54/51:5 Connector, accessory wiring, rear fog light	4/58 4/58 4/58	10
3	11D/14 Fuses in the cargo compartment 54/51:4 Connector, accessory wiring, brake lights	20/31, 2/79 2/79	15
4	10/48 Right-hand reversing light 10/55 Left-hand reversing light 54/51:12 Connector, accessory wiring, reversing lights	2/80 2/80 2/80	10
5	2/52 Relay, 15l feed, rear 2/82 Relay, heated rear window		5
6	3/78 Trunk lid lock unit	2/67	10
7	8/59 Front right side airbag igniter 8/60 Rear right head restraint solenoid	2/75 2/75	10
8	3/76 Left-hand rear door lock unit 3/77 Right-hand rear door lock unit 6/37 Lock motor, fuel filler flap	2/112, 2/158 2/114, 2/115 2/59, 2/158	15
9	30+ Rear accessory wiring		15
10	16/15 CD changer 16/45 Road Traffic Information (RTI)		10
11	4/78 Accessory Electronic Module AEM		15
14	10/43 Right brake light, S60 10/50 Left brake light, S60		7,5
15	15l+ Rear accessory wiring 4/86 Parking Assistance Module (PAM), S60		20
16	17/19 12V outlet, cargo compartment		15
17	2/142 Relay, preheated fuel filter, Diesel 4/82 Differential Electronic Module (DEM)		7,5
18	9/38 Preheated fuel filter, Diesel	2/142	15

Fuses
Cargo compartment 11E/1-7



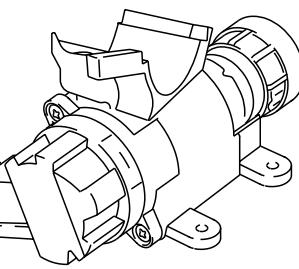
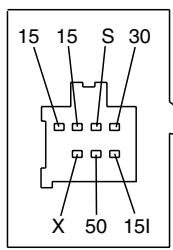
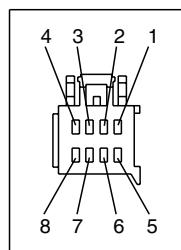
11E Fuses by the battery

No.	Fuse function	via	A
1	11D/15-18 Fuses in the cargo compartment	2/52	40
2	11D/12-13 Fuses in the cargo compartment		40
3	16/16 Window antenna amplifier, left	2/82	40
5	11D/6-11 Fuses in the cargo compartment		40
7	11D/1-5 Fuses in the cargo compartment		40

Relays/Shunts

Ignition switch and relays

3/1



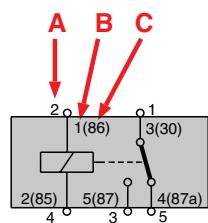
Term.	Color
1	BL-R
2	-
3	Y
4	R-SB
5	-
6	VO
7	Y-W
8	BL



Position	Terminal						50
	3	15	15	X	15I	S	
Key Out	X						
0	*					*	
I	*				*	*	
II	*	*	*	*	*	*	
III	*	*	*			*	*

Relays, general

The diagram indicates two or three different designations for the relay's position. This is described below.

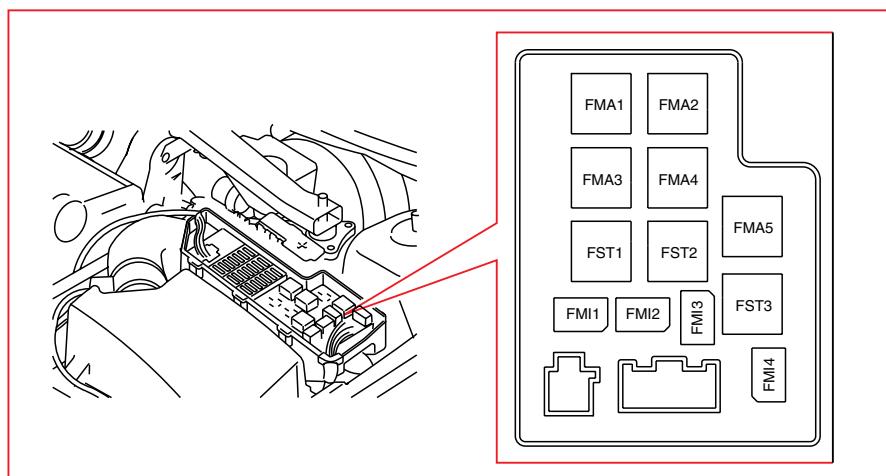


A = Corresponds to the position on the rear of the relay box (wiring side).

B = Corresponds to the position on the relay.

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

Relays/Shunts Engine compartment FMA2 - FST3

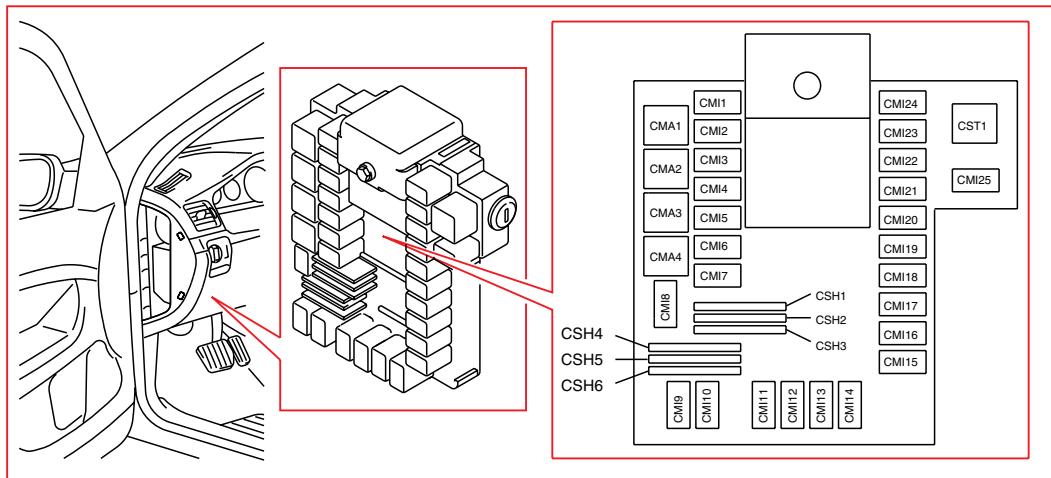


Relays in the engine compartment

Pos	Relay function
FMA2	2/32 Engine management system main relay
FMA3	2/14 Relay, glow plug unit
FMA4	2/35 Starter motor relay
FMI1	2/22 Relay, climate control system
FMI2	2/17 Horn relay
FMI3	2/92 Relay, windshield washer motor
FMI4	2/93 Relay, rear window washer motor
FST1	2/91 Relay, intermittent wiping
FST2	2/33 Relay, fuel system
FST3	2/90 Relay, windshield wiper, low/high speed

Relays/Shunts

Passenger compartment CMA2 - CSH4

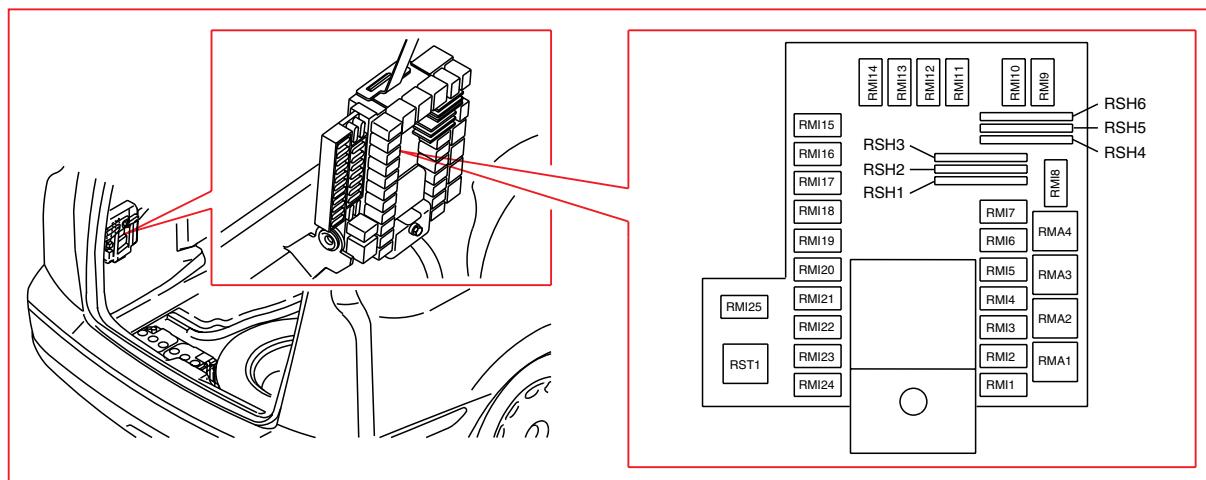


Relays/shunts in the passenger compartment

Pos	Relay function
CMA2	2/30 X feed overload relay
CMA3	2/31 15-feed overload relay
CMI1	2/116 Rear power window up relay
CMI2	2/118 Rear power window down relay
CMI3	2/120 Relay - power windows, power child lock rear door
CMI4	2/63 High beam relay
CMI5	2/61 Relay, position/parking light
CMI6	2/152 Relay, daytime running lights
CMI7	2/62 Relay, low beam/Bi-Xenon
CMI11	2/34 Fog light relay, front
CMI12	2/23 Fuel pump relay
CMI13	2/174 Relay, Suspension Module (SUM)
CMI14	2/143 Relay, fuel leakage control
CMI21	2/101 Relay for extended D2 feed, automatic transmission
CMI22	2/29 Relay, extended D1 feed
CMI23	2/119 Relay, RR power window down
CMI24	2/117 Relay, RR power window up
CSH1	20/32 Shunt, indicator CEM, left
CSH2	20/34 Shunt, indicator CEM, right
CSH4	20/27 Shunt, low beam CEM

Relays/Shunts

Cargo compartment RMA1 - RSH6

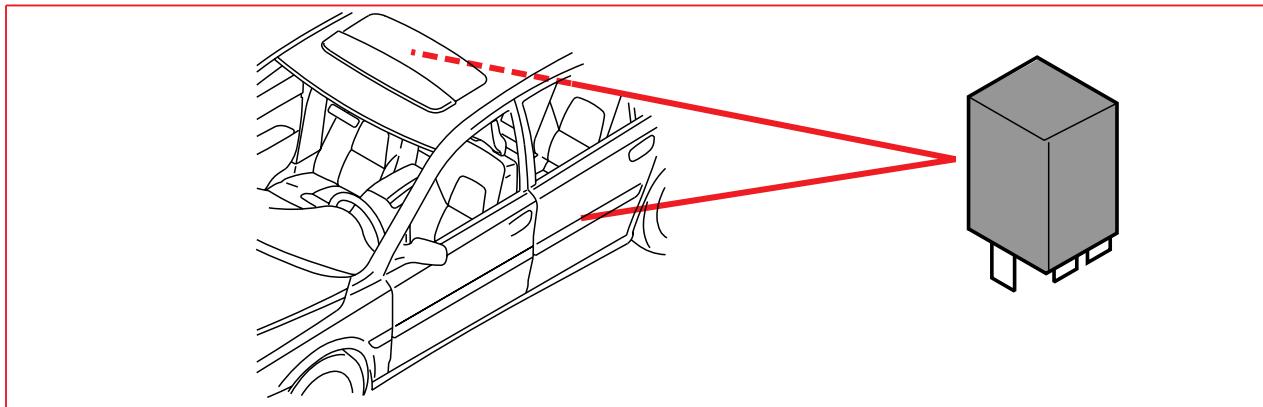


Relays/shunts in the cargo compartment

Pos	Relay function
RMA1	2/52 Relay, 15l feed, rear
RMA3	2/82 Relay, heated rear window
RMI2	2/112 Unlocking relay, left-hand rear
RMI3	2/115 Relay, deadlock, rear doors
RMI4	2/80 Reversing light relay
RMI5	2/79 Brake light relay
RMI6	2/49 Relay, rear fog light
RMI7	2/83 Trailer fog light relay
RMI8	2/142 Relay, preheated fuel filter
RMI14	2/75 Rear adjustable head restraint relay
RMI17	2/140 Relay CNG/LPG
RMI19	2/67 Trunk lid opening relay
RMI20	2/158 Locking relay, rear doors, filler flap
RMI21	2/59 Unlocking relay, fuel filler flap
RMI23	2/114 Unlocking relay, right-hand rear
RSH2	20/29 Shunt, fog light REM
RSH4	20/28 Shunt, position/parking light REM
RSH5	20/33 Shunt, position/parking light/tail light REM
RSH6	20/31 Shunt, brake light REM

Relays/Shunts

Other relays



Other relays

Pos	Relay function
Left-hand rear door	2/138 Deadlock relay, left-hand rear door
Right-hand rear door	2/139 Deadlock relay, right-hand rear door

Ground connections
31/1 - 31/10

31/1	
6/2:4	Windshield washer pump
6/3:3	Right-hand headlight wiper motor

31/2	
4/71:1	Cooling fan control module

31/3	
1/1	Battery

31/4	
31/44	Ground connection

31/5	
9/2	Heated rear window

31/6	
4/56E:1	Central Electronic Module (CEM), LHD
4/31A:4	Fan control module, RHD
53/405 -2/30:4 -2/143:1 -3/6:5 -10/29:2 -10/125:4 -10/126:4 -16/65:6 -54/13:22	Junction point - X feed overload relay - fuel leakage check relay, USA/CDN - hazard warning flasher switch - glove compartment lighting - courtesy lighting, left front - courtesy lighting, right front - antenna ring/ignition switch lighting - connector, cabin - left-hand center door

31/10	
4/56E:1	Central Electronic Module (CEM), RHD
4/31A:4	Fan control module, LHD
53/406 -4/84C:2 -9/1:2 -9/25A:3	Junction point - Suspension Module (SUM) - front 12V outlet - rear 12V outlet

Ground connection

31/44 - 31/70

31/44	
31/4	Ground connection
31/47	
54/51:7	Connector, accessory wiring
31/48	
6/33:4	Fuel pump
31/53	
1/1	Battery
31/66	
53/500 -4/52A:2 -54/10:11 -54/20:12 -54/24:3 -54/24:13 -54/74:4	Junction point - Power Seat Module (PSM), LHD - connector - connector - connector - connector, RHD - connector, AWD
31/67	
53/501 -4/52A:2 -6/35:2 -54/11:11 -54/21:12 -54/25:3 -54/25:13	Junction point - Power Seat Module (PSM), RHD - fuel pump, auxiliary heater - connector - connector - connector - connector, LHD
31/70	
10/65	FR auxiliary light, accessory
10/69	FL auxiliary light, accessory

**Ground connection
31/72 - 31/83**

31/72	
53/601 -4/58E:1 -4/86A:4 -6/31:4 -8/59:4 -10/18:8 -10/18A:4 -10/18B:6 -10/127:4 -54/50:10	Junction point - Rear Electronic Module (REM) - Parking Assistance Module (PAM), option - feed pump, ejectors, S60R - rear left head restraint solenoid - rear left lamp housing, S80 - rear left lamp housing, S60 - rear left lamp housing, S60 - lighting, cargo compartment, left-hand side - connector
53/602 -7/100:5 -16/15:1 -16/45D:5	Junction point - Inclination Sensor Module (ISM) - CD changer - Road Traffic Information (RTI)
7/100:5	Inclination Sensor Module (ISM)

31/73	
53/604 -4/78A:1 -8/60:4 10/17:8 -10/17A:4 -10/17B:6 -10/128:4 -17/19:2 -54/35:4 -54/54:8 -54/106:2	Junction point - Accessory Electronic Module (AEM) - rear right head restraint solenoid - rear right lamp housing, S80 - rear right lamp housing, S60 - rear right lamp housing, S60 - lighting, cargo compartment, right-hand side - 12V cargo compartment outlet, accessory - connector, Diesel - connector, Bi-Fuel - connector, CNG

31/83	
53/400 -5/1:14 -16/65:7 -54/13:20	Junction point - Driver Information Module (DIM) - antenna ring/ignition switch lighting - connector

Ground connection

31/84 - 31/91

31/84	
53/438 -3/111:5 -3/112A:16 -3/130:16 -3/130:22 -4/68:16 -16/60:18 -17/13:4 -17/13:5	Junction point <ul style="list-style-type: none">- Light Switch Module (LSM)- Climate Control Module (CCM)- Steering Wheel Module (SWM)- Steering Wheel Module (SWM)- Steering Angle Sensor SAS, DSTC- Phone Module (PHM)- data link connector- data link connector
16/1A:12	Audio Module (AUM)
53/448 -16/1A:12 -16/2A:2 -53/423	Junction point <ul style="list-style-type: none">- Audio Module (AUM) amplifier- amplifier- junction point

31/88	
20/3:3	Spark plug and ignition coil
20/4:3	Spark plug and ignition coil

31/89	
20/5:3	Spark plug with ignition coil, 5-cyl
20/6:3	Spark plug with ignition coil, 5-cyl
20/7:3	Spark plug with ignition coil, 5-cyl
53/323 -20/5:3 -20/6:3 -20/7:3 -20/8:3	Junction point <ul style="list-style-type: none">- spark plug with ignition coil, 6-cyl- spark plug with ignition coil, 6-cyl- spark plug with ignition coil, 6-cyl- spark plug with ignition coil, 6-cyl

31/91	
9/32	PTC resistor, air preheating, 5-cyl Petrol, Bi-Fuel
4/50:5	Electronic Throttle Module (ETM), Bi-Fuel

**Ground connection
31/93 - 31/96**

31/93	
53/331 -6/1:4 -6/4:3 -8/37B:2 -8/37B:4 -10/15:1 -15/31C6:1 -53/301 -53/329 -54/4:4 -54/9:3 -54/58:4 -54/58:2	Junction point - windshield wiper motor - left-hand headlight wiper motor - automatic transmission, 5-cyl - automatic transmission, 5-cyl - front left fender direction indicator, EU/OS - engine compartment distribution box - junction point - junction point - connector - connector - connector, 6-cyl - connector, 6-cyl

31/94	
53/303 -4/28A:53 -6/39:1 -10/2A:1 -10/2B:3 -10/6:2 -10/16:1 -10/73:2 -16/35:3	Junction point - Transmission Control Module (TCM) - right-hand headlight adjustment motor - front right lamp housing - front right lamp housing - front right fog light - front right fender direction indicator, EU/OS - side marker light, front right, S80 - Siren Control Module (SCM)

31/95	
53/384 -4/16:16 -4/16:47	Junction point - Brake Control Module (BCM) - Brake Control Module (BCM)

31/96	
53/326 -4/46A:17 -4/46A:36 -4/46A:53 -4/46A:54 -4/46A:62 -4/46A:63 -6/105:3 -9/32:2	Junction point - Engine Control Module (ECM), 5-cyl normally aspirated - Engine Control Module (ECM), Bi-fuel, Diesel - Engine Control Module (ECM) - Engine Control Module (ECM) - Engine Control Module (ECM), 5-cyl normally aspirated, Bi-fuel - Engine Control Module (ECM), 5-cyl Turbo/6-cyl - fuel distributor, gas, Bi-Fuel - PTC resistor, air preheating, Diesel

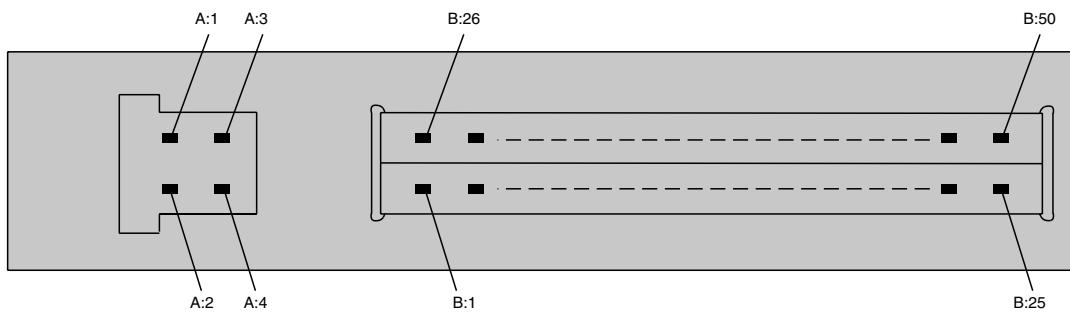
Ground connection

31/98

31/98	
10/115:3	Right-hand vanity mirror lighting
53/503 -3/117A:10 -4/33A:5 -4/70:20 -7/122:5 -10/19:5 -10/114:3 -10/150:4 -54/13:20 -54/16:2	Junction point <ul style="list-style-type: none">- dome light control module- sunroof control module SRM- Upper Electronic Module UEM- Microwave Motion Sensor (MMS), alarm- auxiliary brake light- left-hand vanity mirror lighting- rear reading light- connector- connector, rain sensor

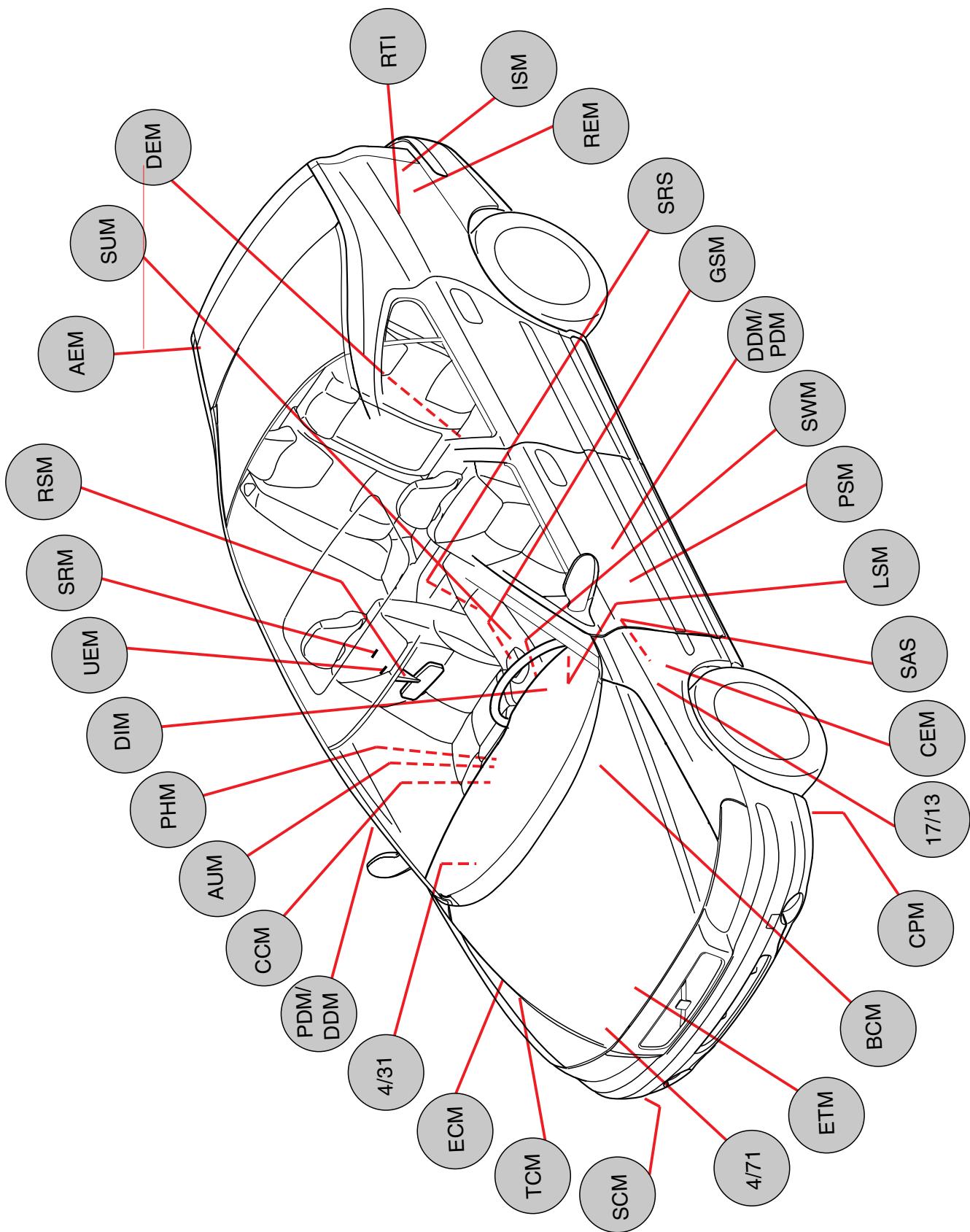
Control modules
Accessory Electronic Module (AEM)

4/78



Pos	Function	Type
A:1	Electrical distribution	Ground
A:2	Electrical distribution	Feed
A:3	CAN communication	Input/output signals
A:4	CAN communication	Input/output signals
B:1	Remote heater start, minicall	Feed
B:2	Remote heater start, minicall	Ground
B:3	Remote heater start, minicall Remote heater start, radio signal	Input signal
B:5	Engine heater	Steering, alternating current feed
B:6	Parking Assistance	Feed
B:7	Parking Assistance	Input signal
B:8	Parking Assistance	Ground
B:11	Handsfree, audio disengage	Input signal
B:12	Audio disengage	Output signal
B:13	Rheostat, audio	Output signal
B:14	Speed signal, audio Speed signal, RTI Japan	Output signal
B:15	Alarm signal	Output signal
B:16	Alarm signal	Output signal
B:30	Antenna amplifier, audio Dimmer, RTI Japan	Feed Output signal
B:33	Alarm signal RTI Japan	Output signal Steering, X-feed
B:34	Alarm signal Reverse gear signal, RTI Japan	Output signal

Control modules Overview, location

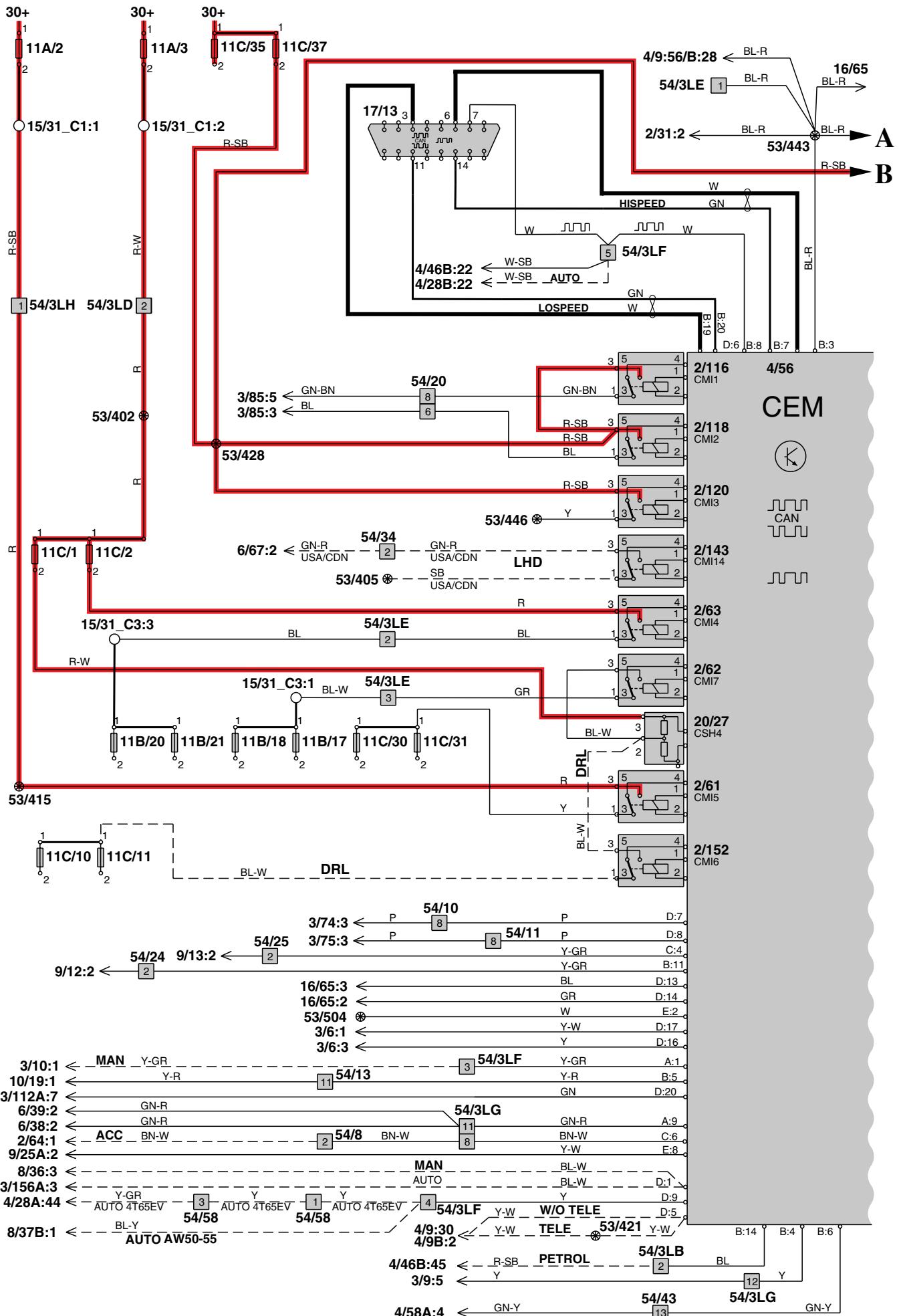


Control modules
Overview, designations

Unit	Designation
AEM	4/78 Accessory Electronic Module AEM
AUM	16/1 Audio Module (AUM)
BCM	4/16 Brake Control Module (BCM)
CCM	3/112 Climate Control Module (CCM)
CEM	4/56 Central Electronic Module CEM
CPM	4/7 Combustion Preheater Module (CPM)
DDM/PDM	3/126 Driver/Passenger Door Module (DDM/PDM), left-hand
DEM	4/82 Differential Electronic Module DEM
DIM	5/1 Driver Information Module (DIM)
ECM	4/46 Engine Control Module (ECM)
ETM	4/50 Electronic Throttle Module (ETM)
GSM	3/156 Gear Selector Module (GSM)
ISM	7/100 Inclination Sensor Module (ISM)
LSM	3/111 Light Switch Module (LSM)
PDM/DDM	3/127 Passenger/Driver Door Module (PDM/DDM), right-hand
PHM	16/60 Phone Module (PHM)
PSM	4/52 Power Seat Module (PSM)
REM	4/58 Rear Electronic Module (REM)
RSM	7/149 Rain Sensor Module (RSM)
RTI	16/45 Road Traffic Information (RTI)
SAS	4/68 Steering Angle Sensor module SAS
SCM	16/35 Siren Control Module (SCM)
SRM	4/33 Sunroof control module SRM
SRS	4/9 Control module, Supplemental Restraint System (SRS)
SUM	4/84 Suspension Module (SUM)
SWM	3/130 Steering Wheel Module (SWM)
TCM	4/28 Transmission Control Module (TCM)
UEM	4/70 Upper Electronic Module UEM
4/31	4/31 Fan control module
4/71	4/71 Cooling fan control module
17/13	17/13 Data link connector

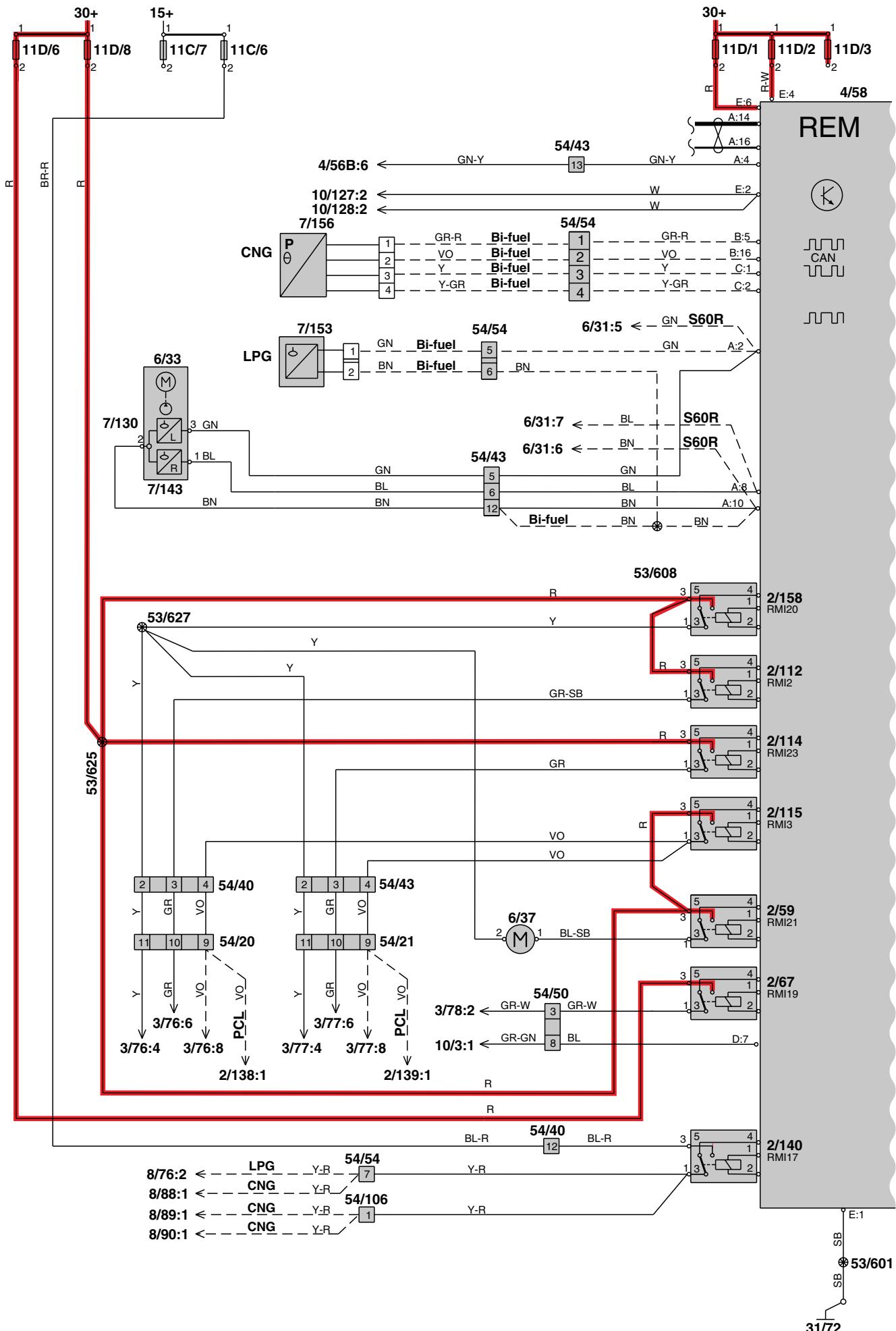
Control modules

Central Electronic Module (CEM)



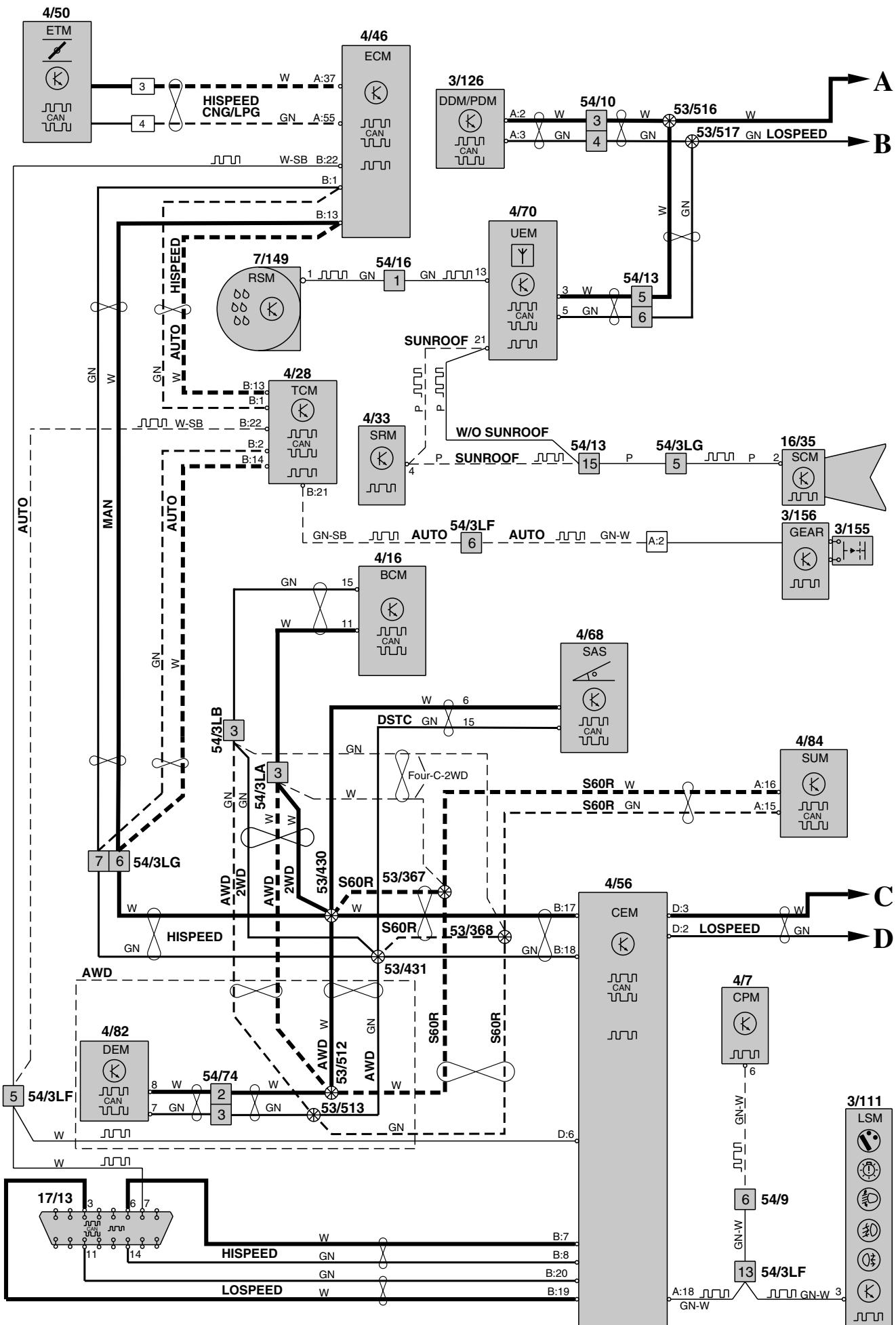
Control modules

Rear Electronic Module (REM)



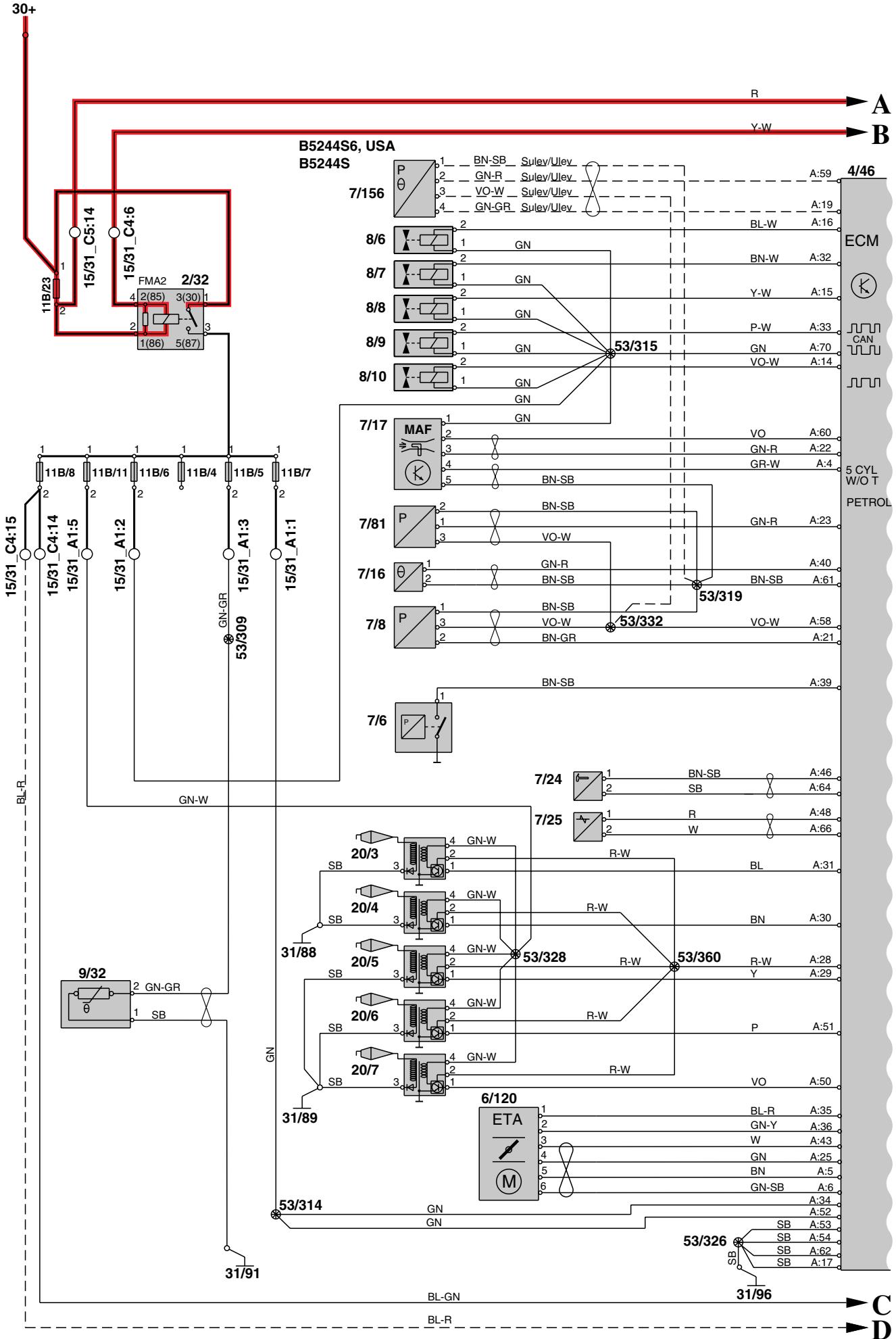
Control modules

Data communication

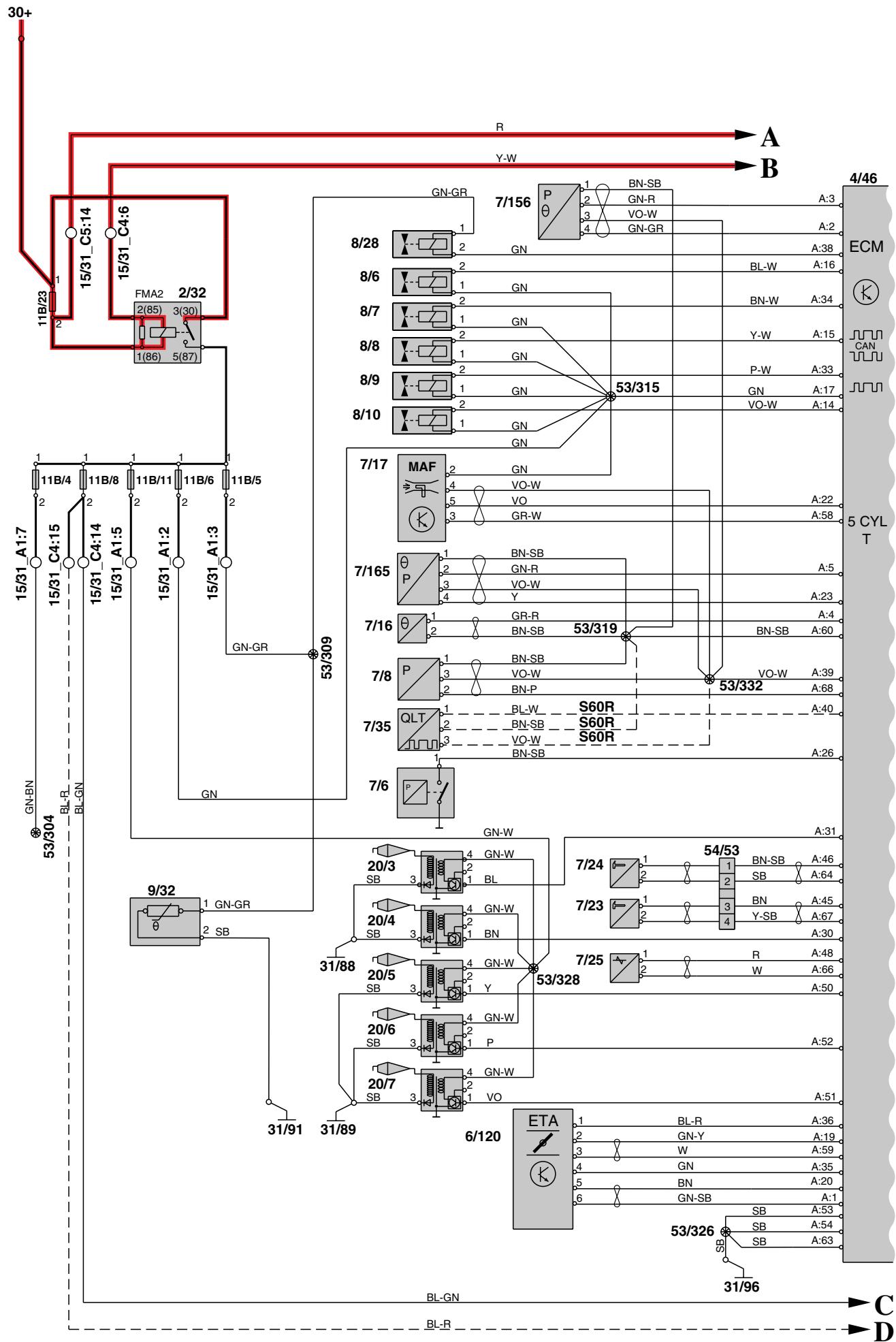


Group 23

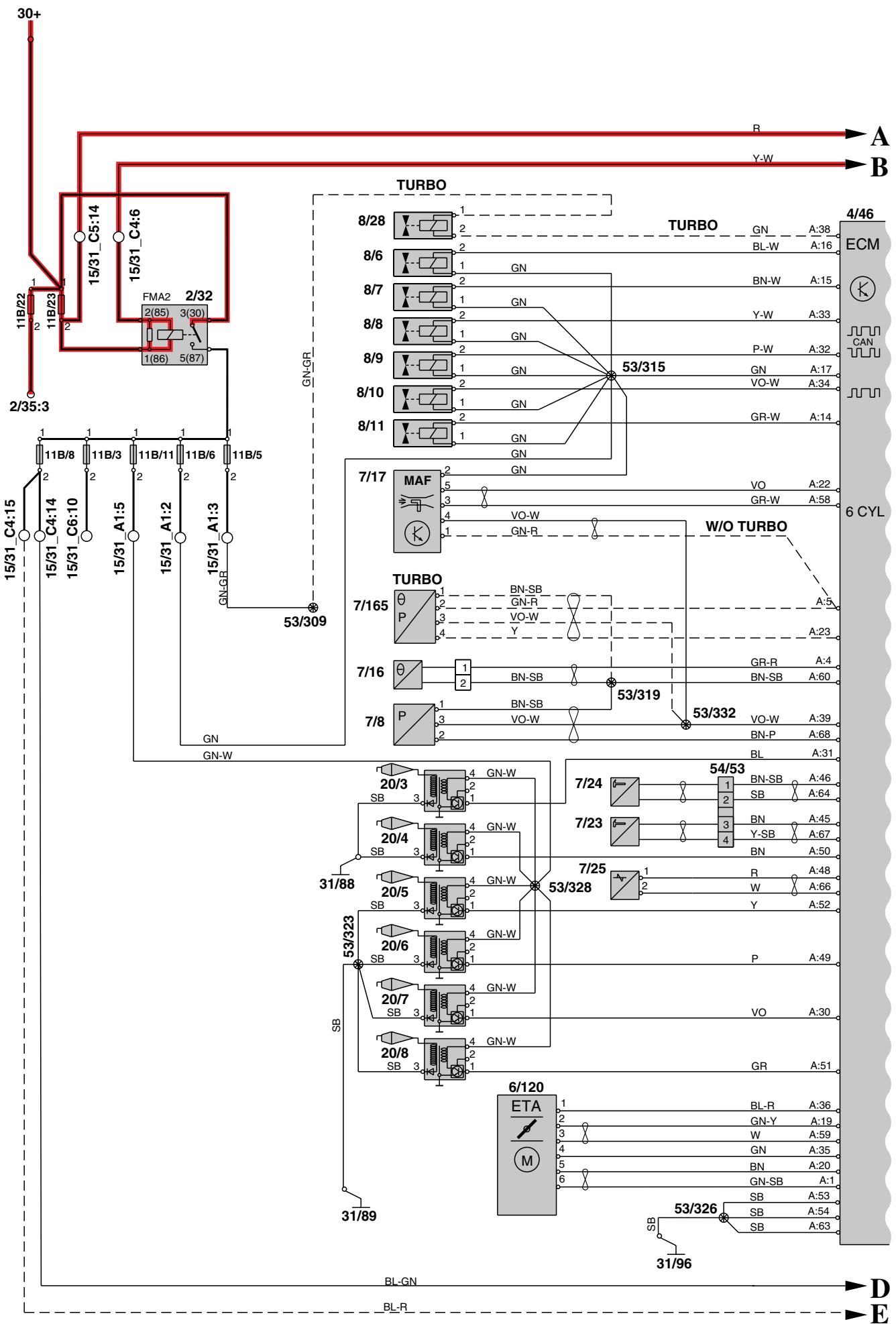
Engine management system, 5-cyl normally aspirated



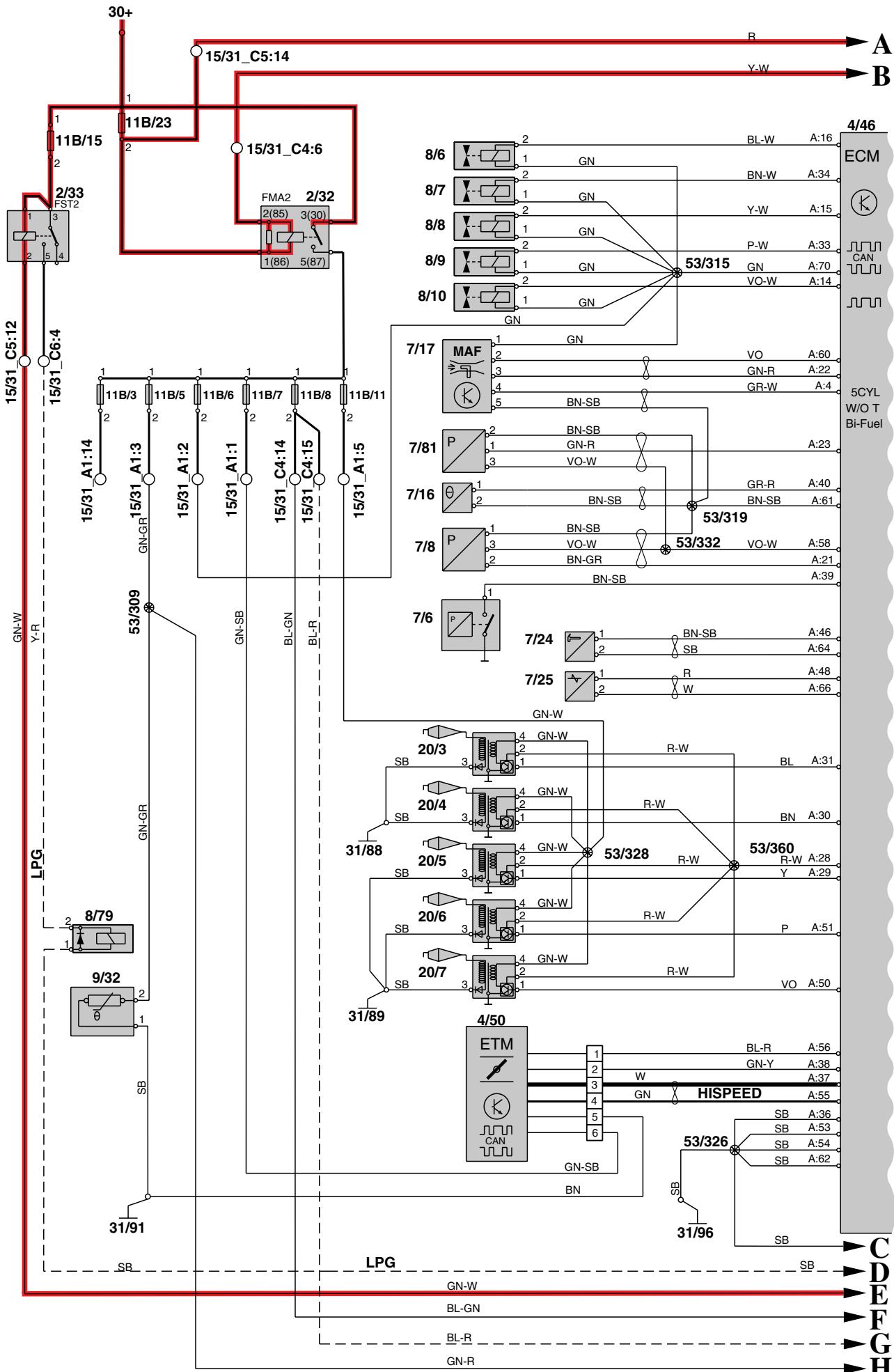
Engine management system, 5-cyl Turbo



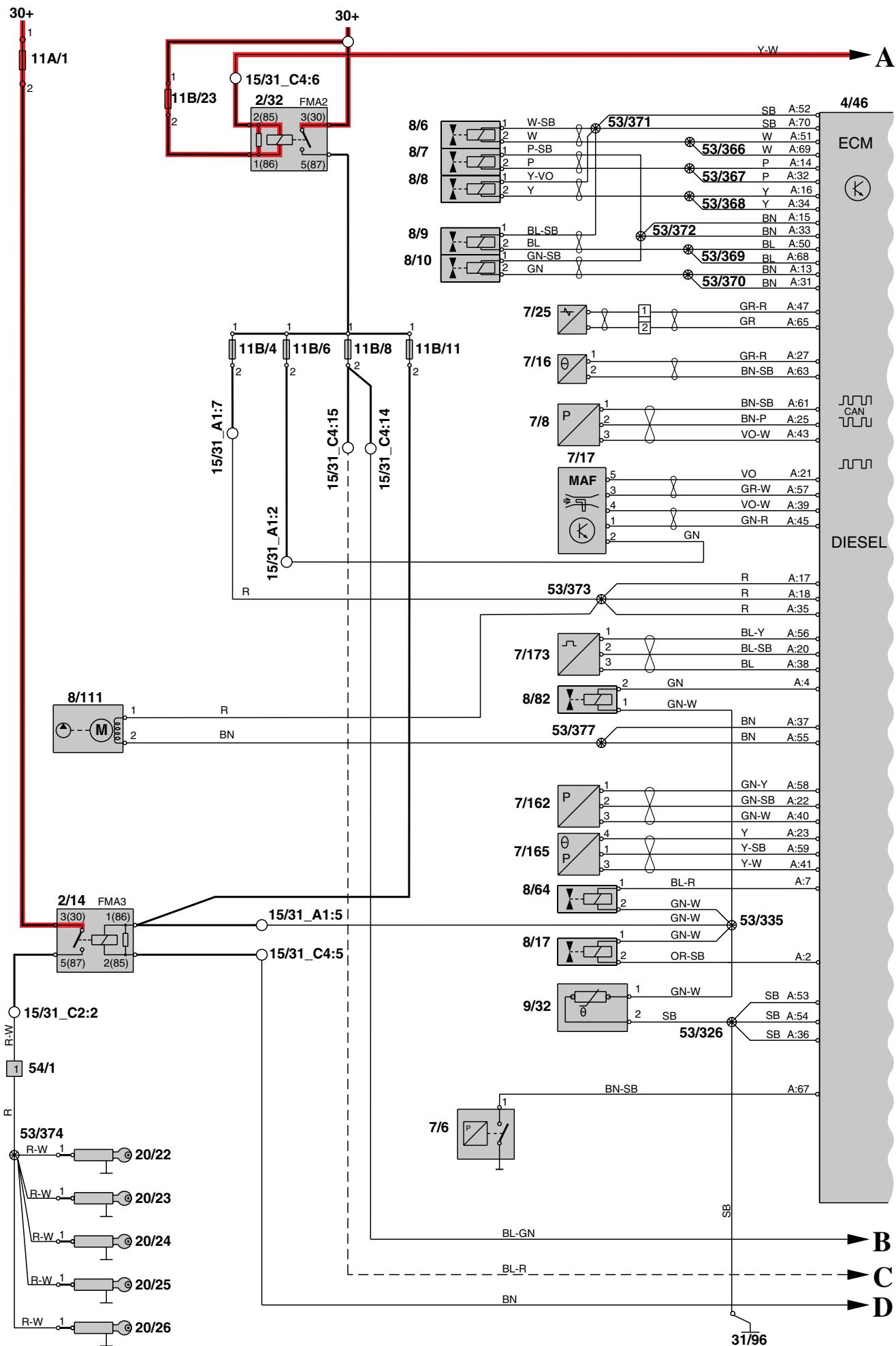
Engine management system, 6-cyl



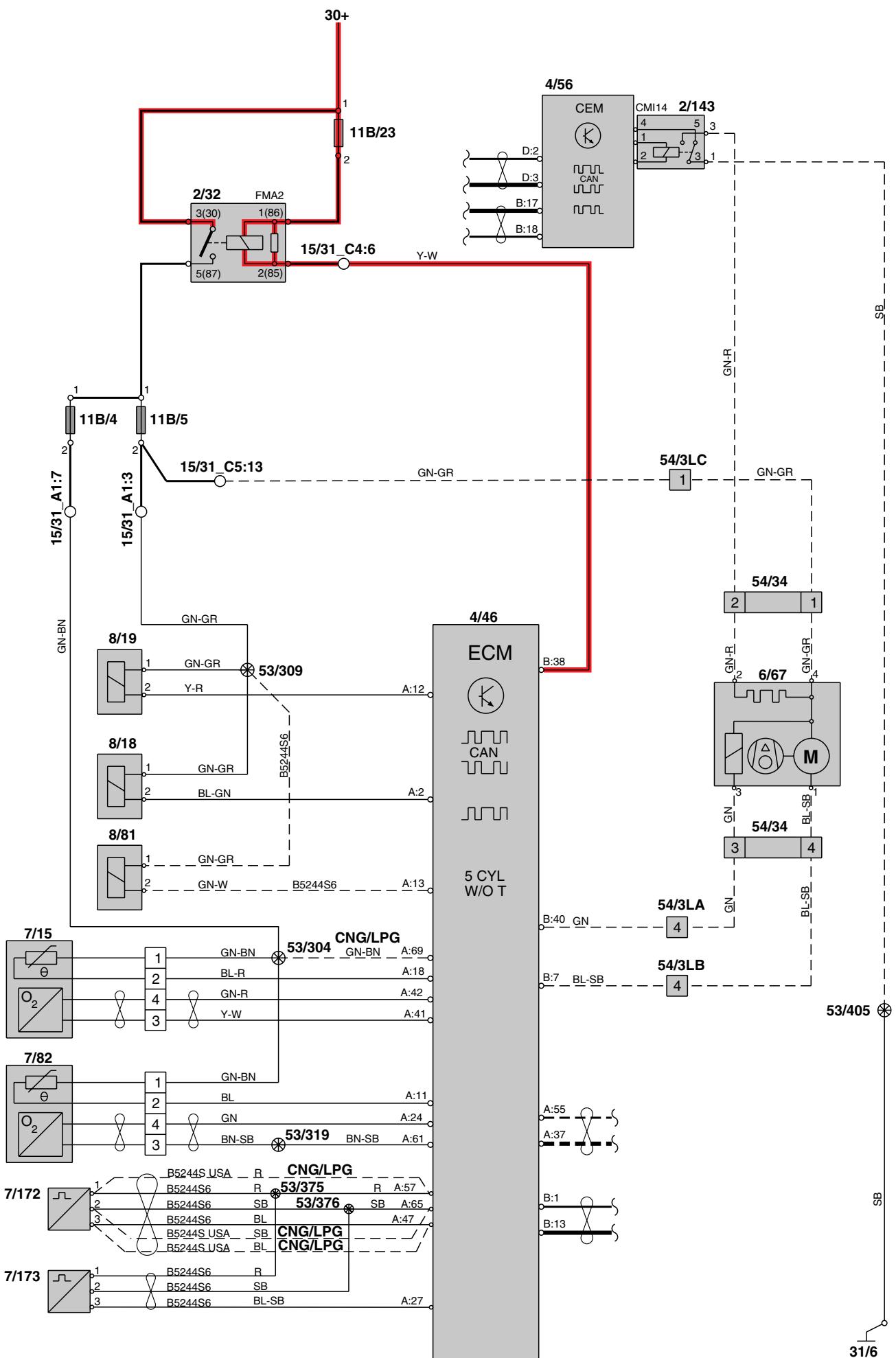
Engine management system, Bifuel



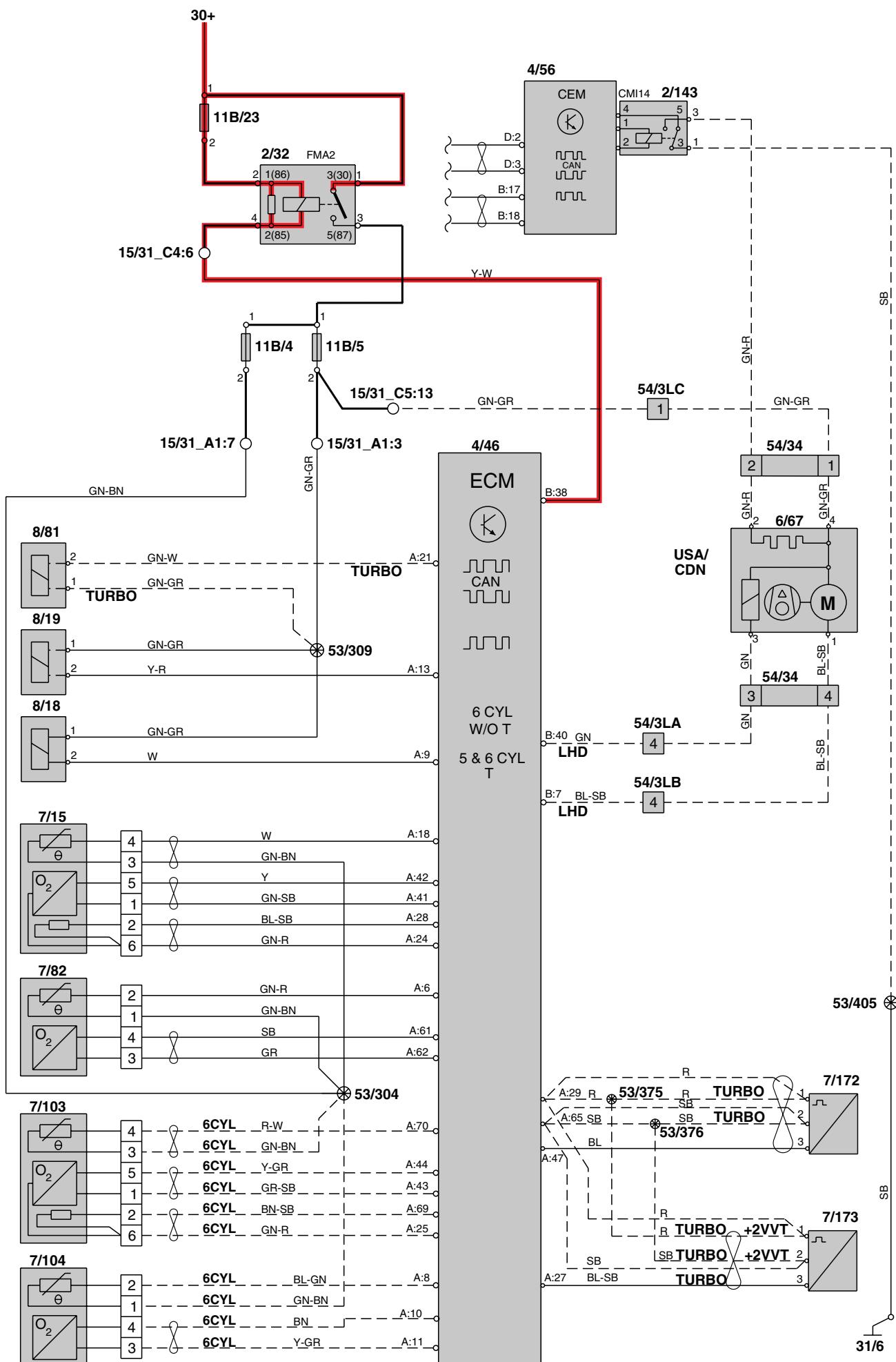
Engine management system, Diesel



Emission control, 5-cyl normally aspirated

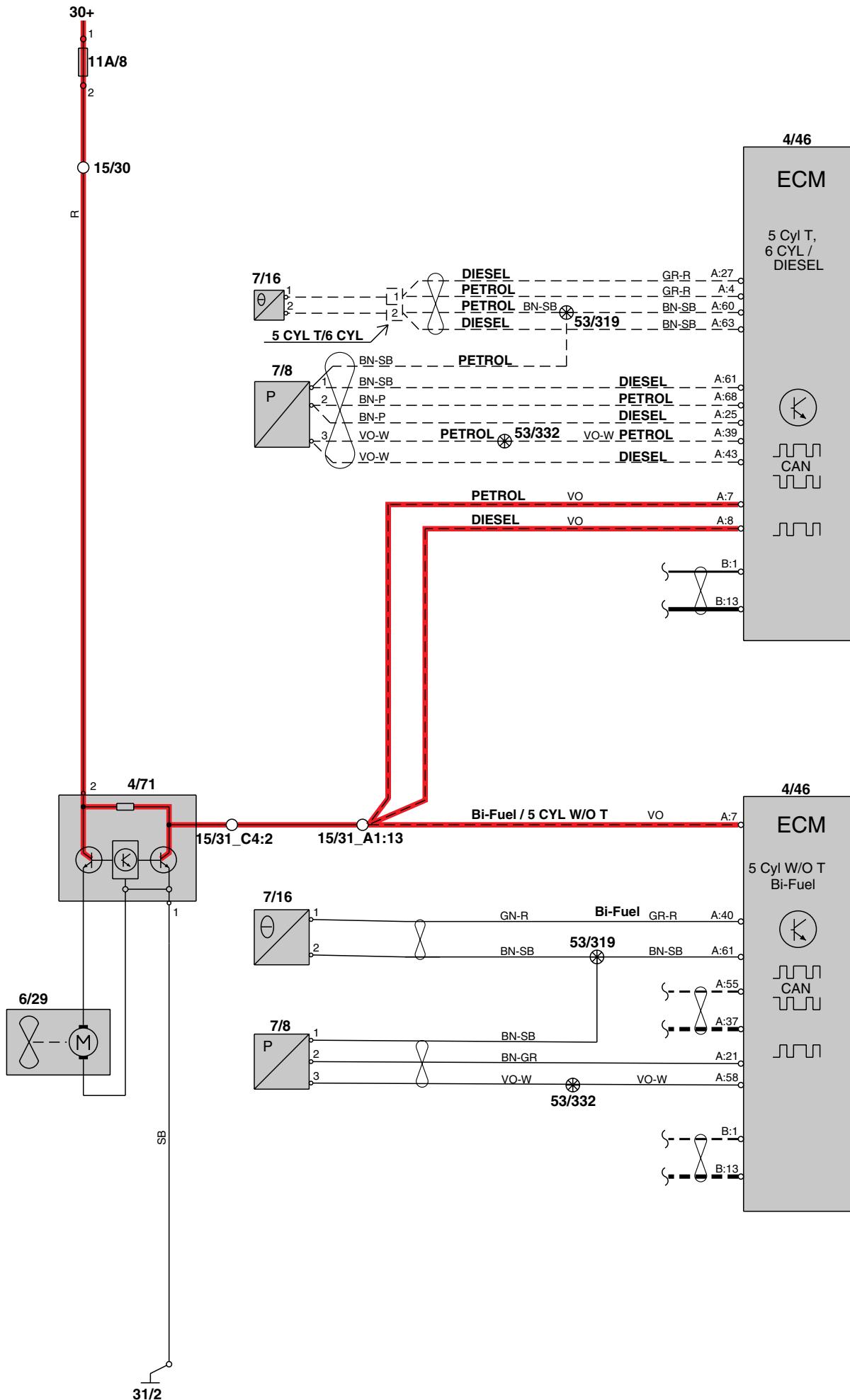


Emission control, 6-cyl & 5-cyl Turbo

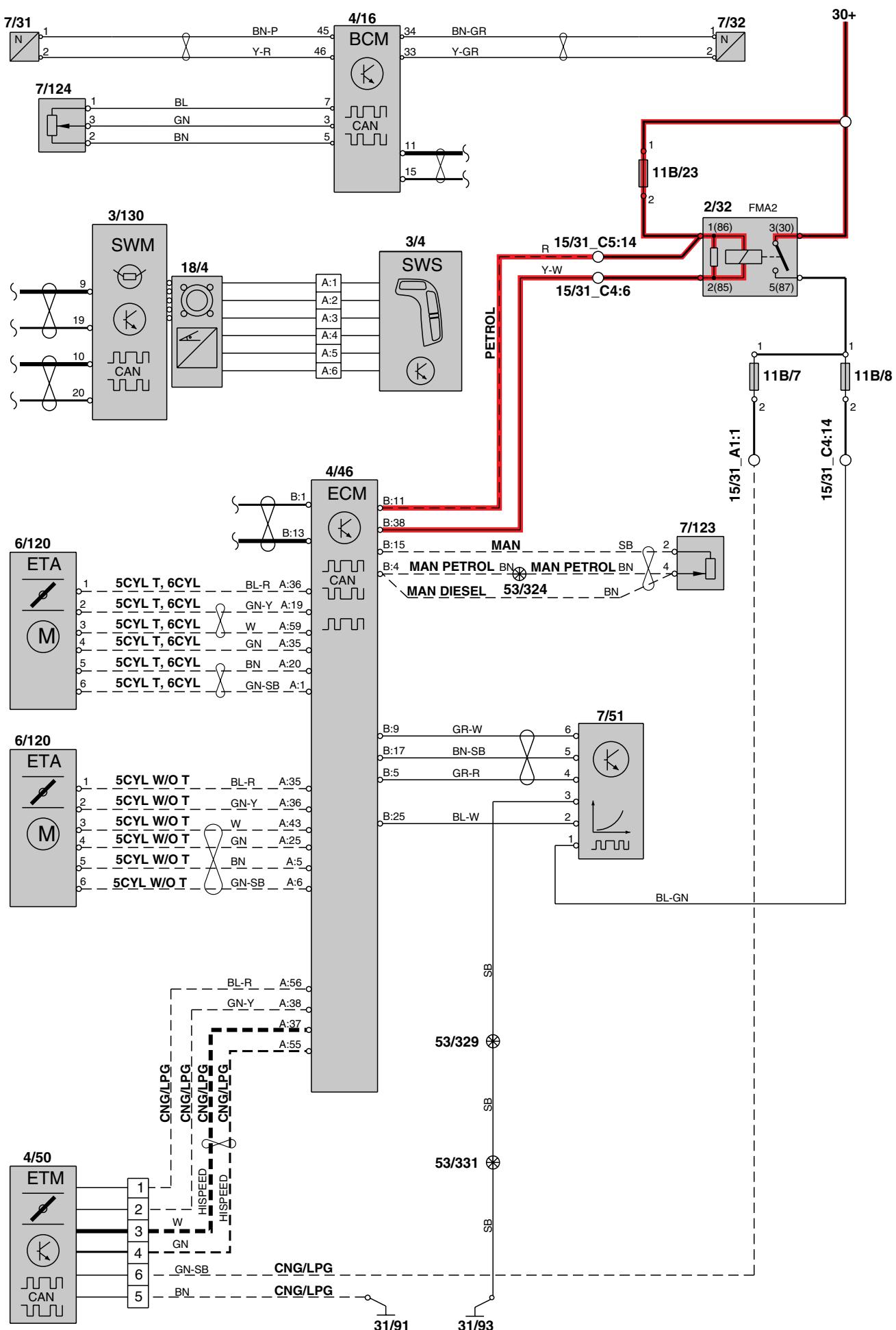


Group 26

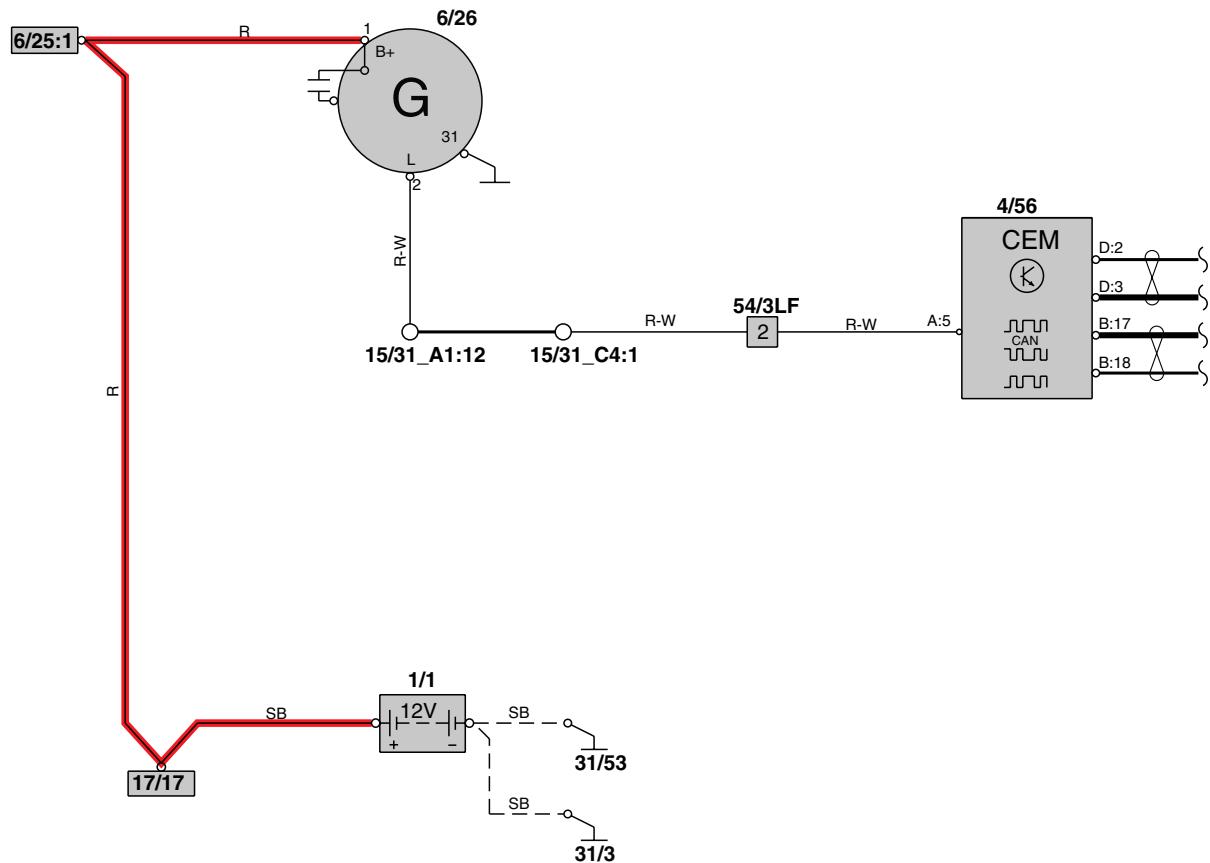
Cooling fan



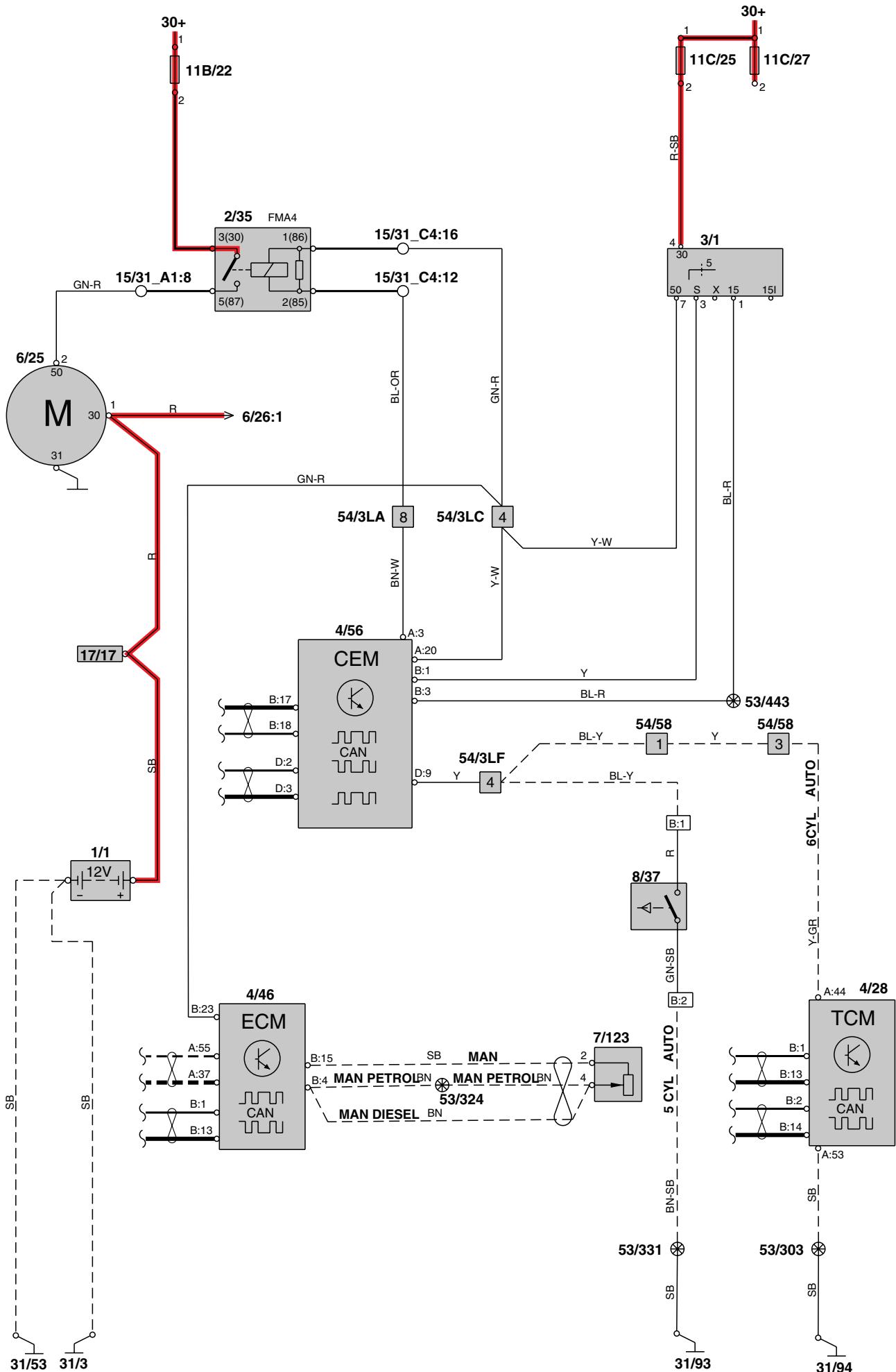
Group 27
Cruise control



Group 32
Power supply

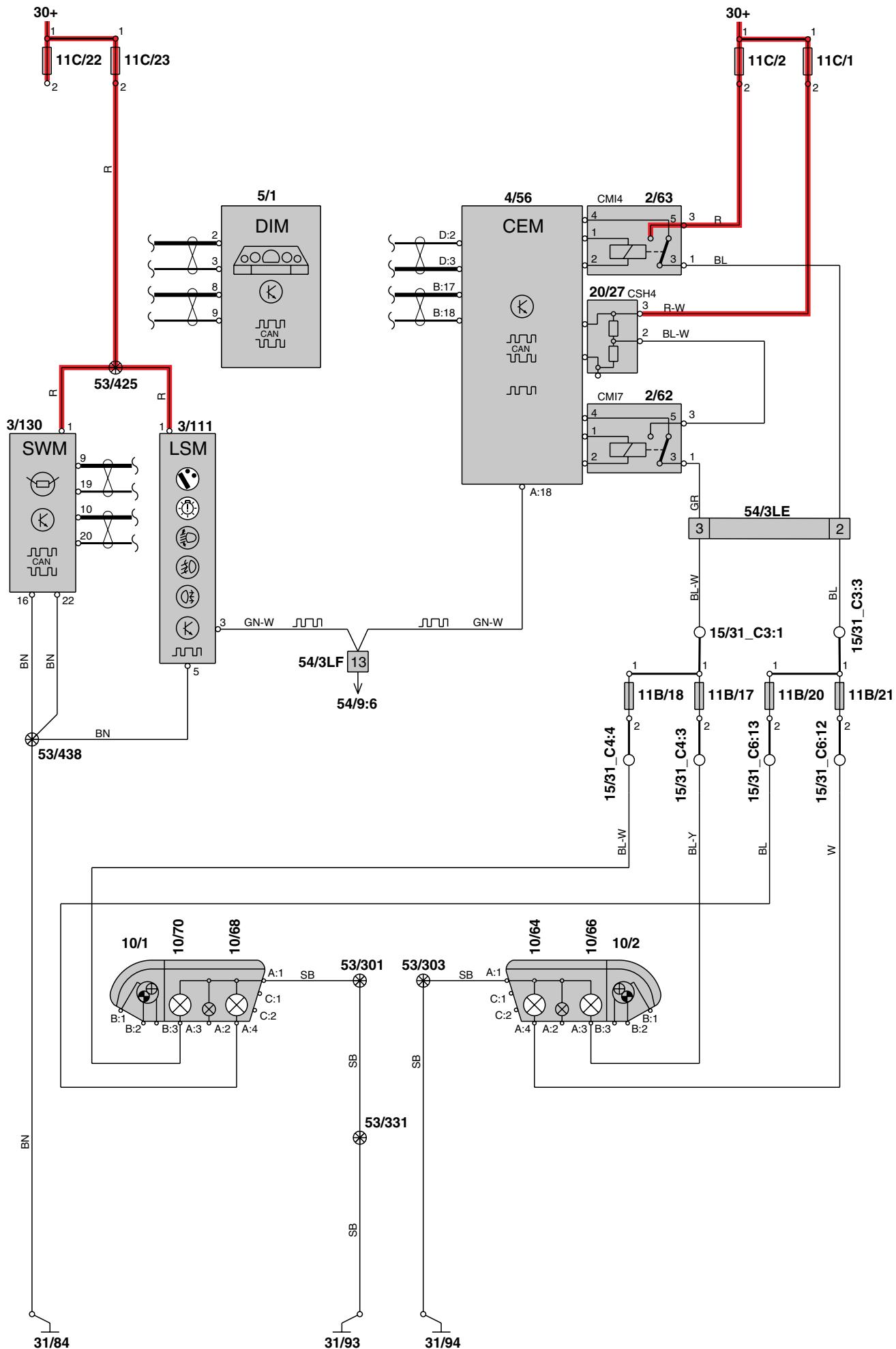


Group 33
Starting system

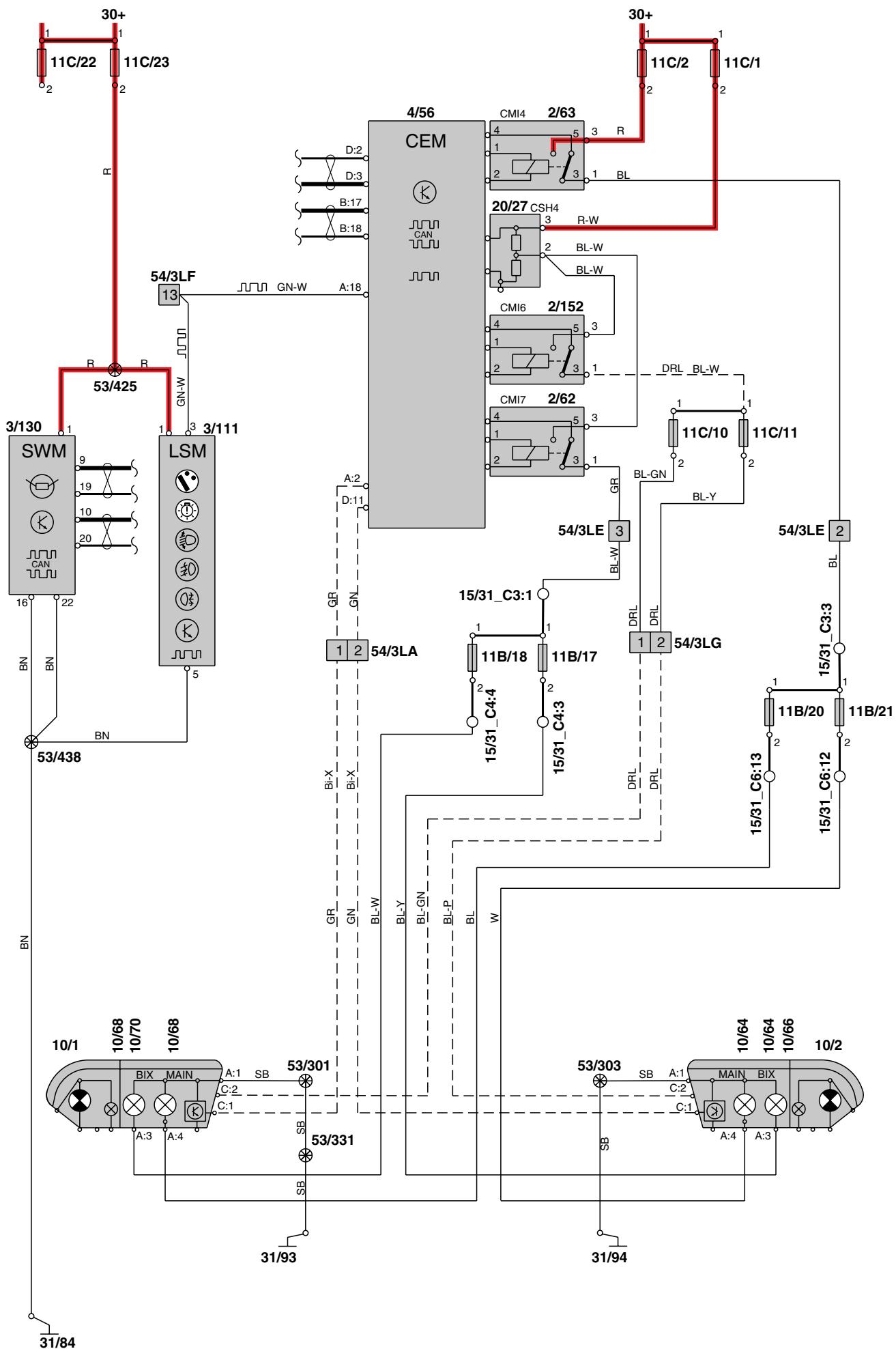


Group 35

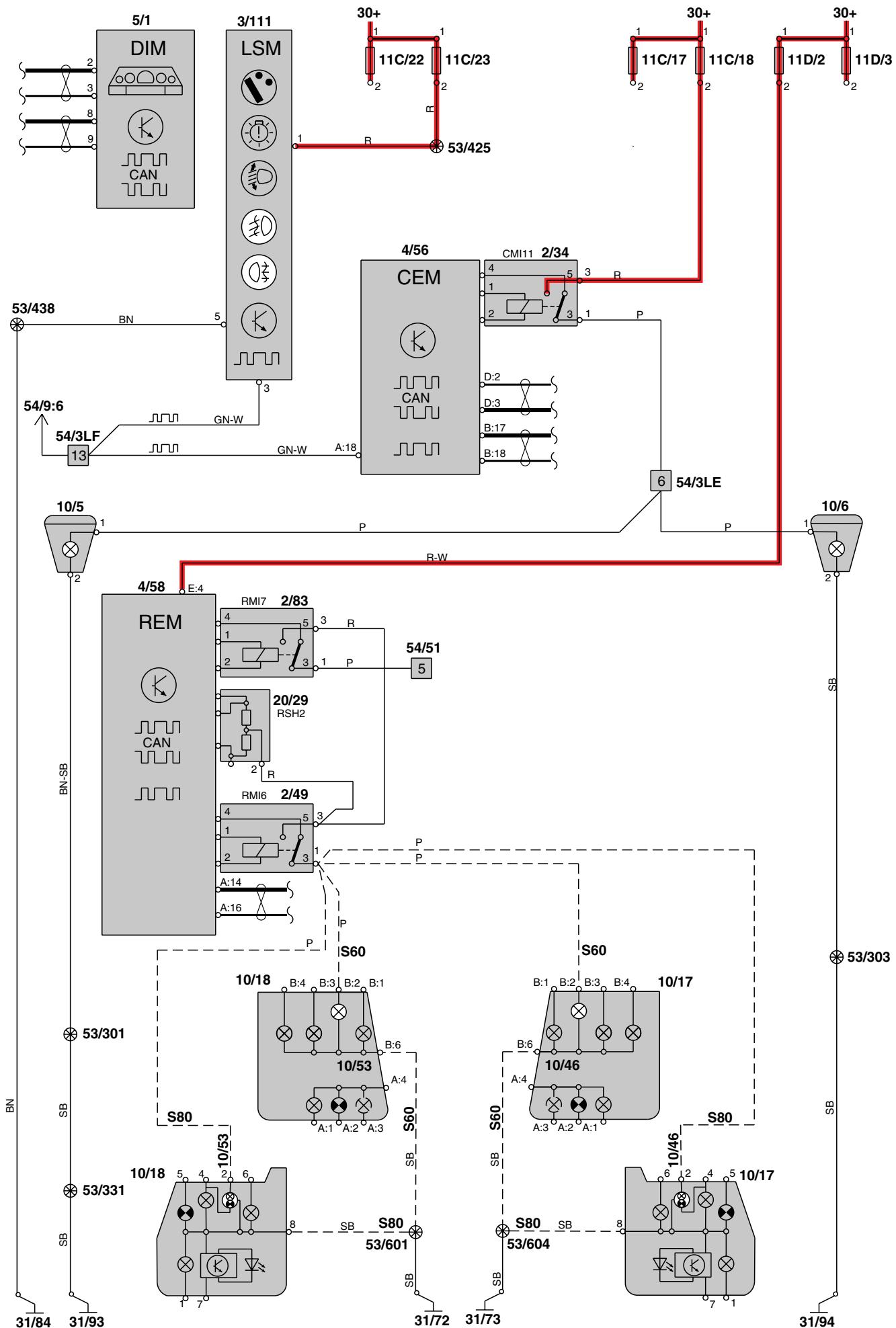
High and low beam



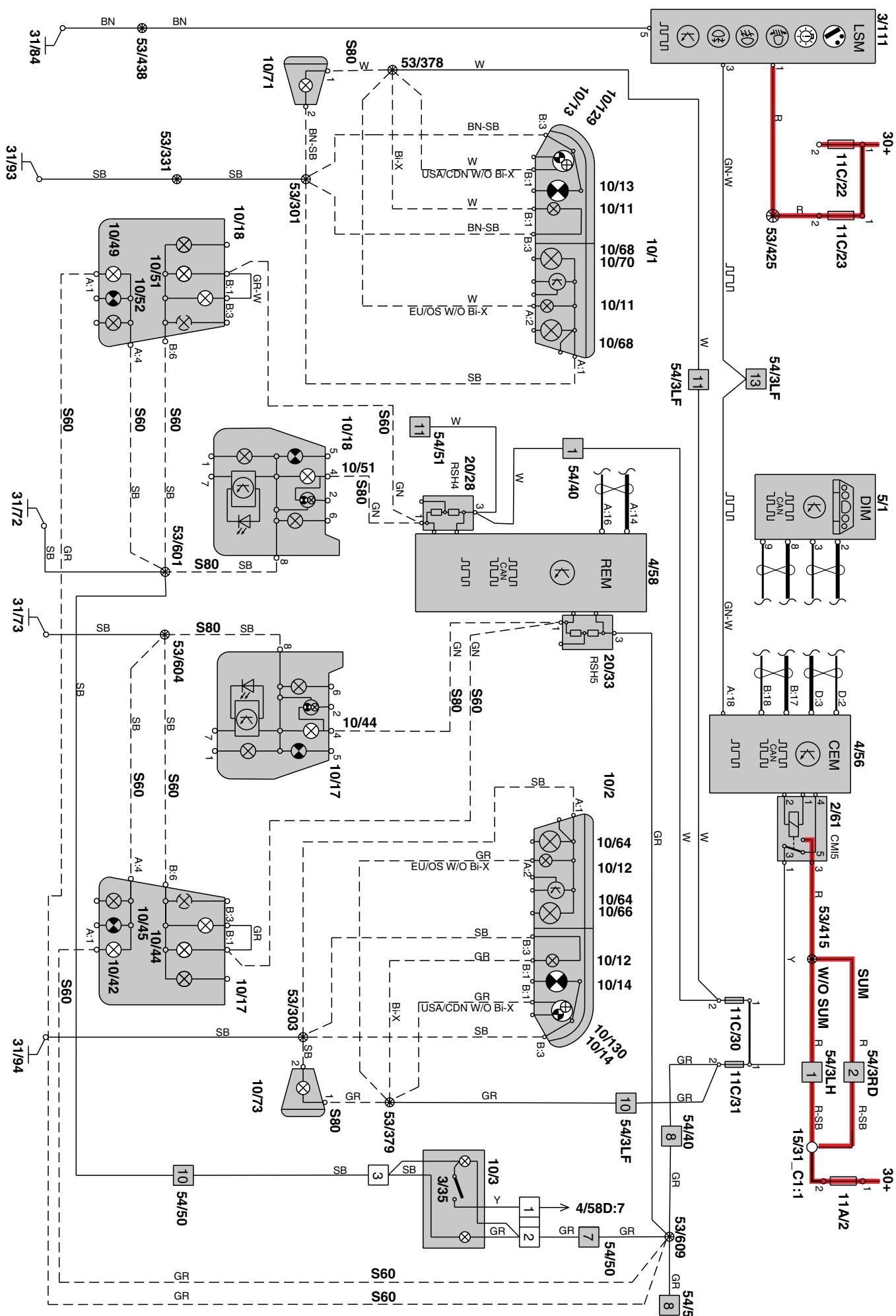
High and low beam, Bi-Xenon



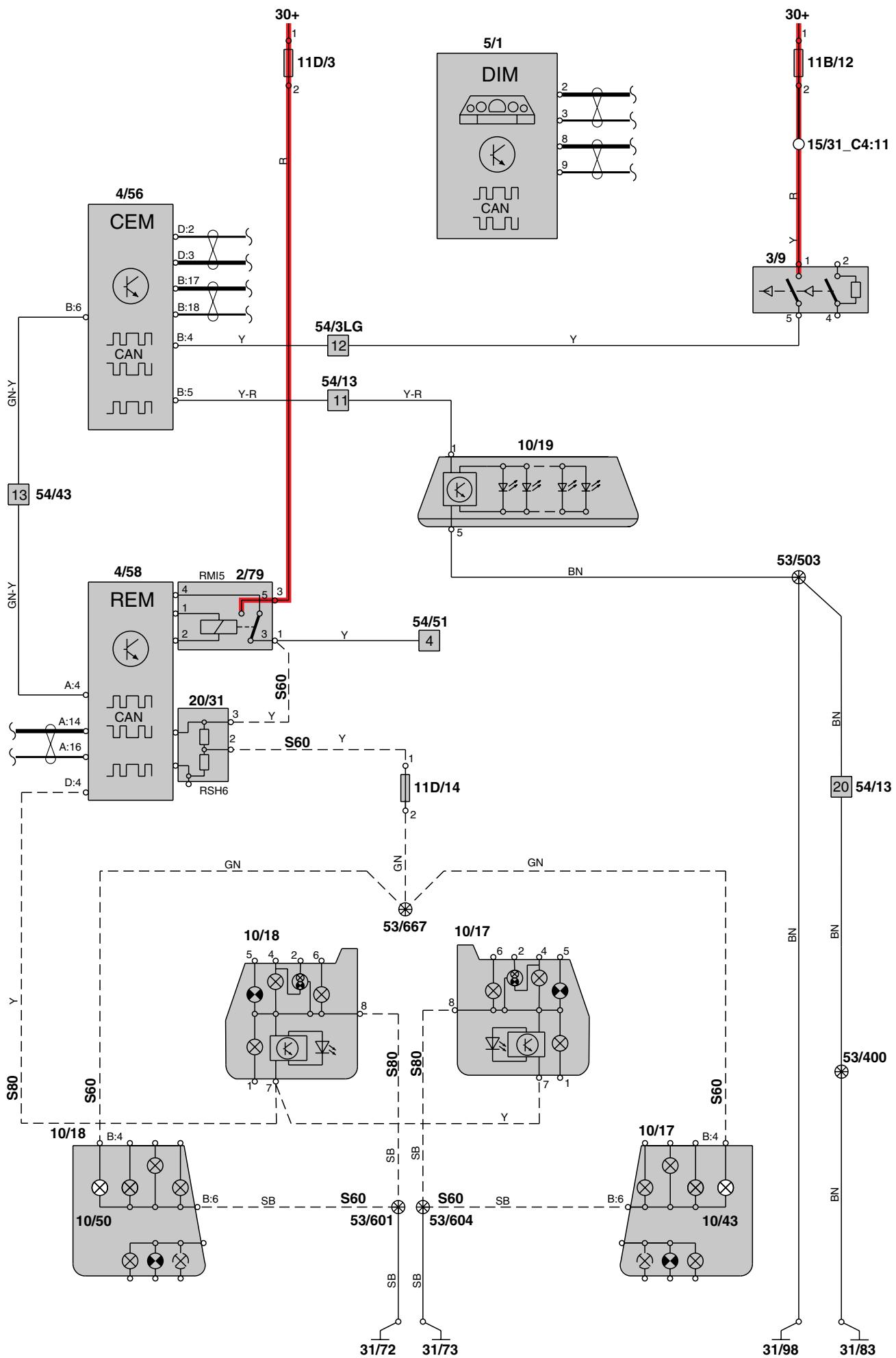
Fog lights



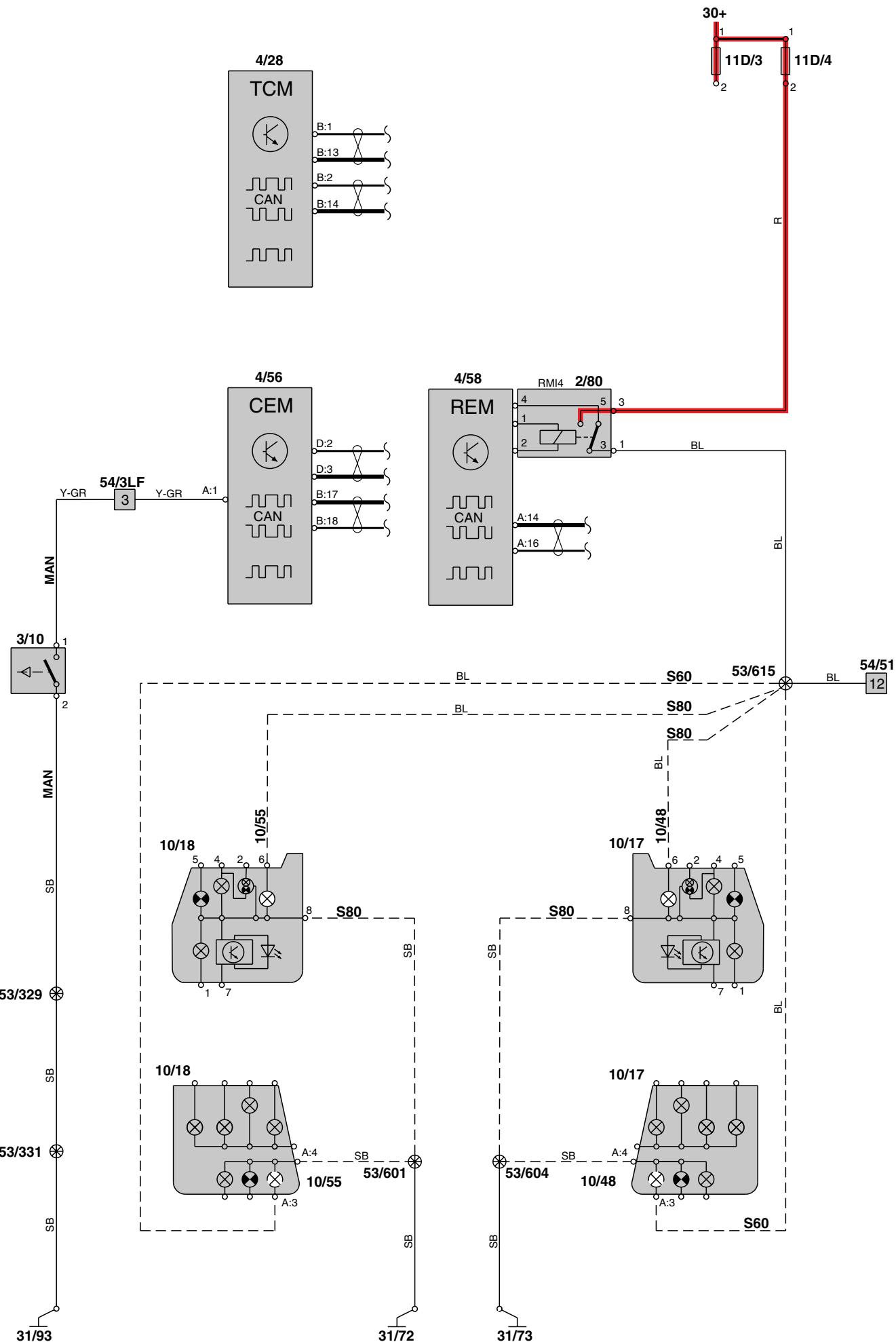
Position/parking light, tail lights and license plate lighting



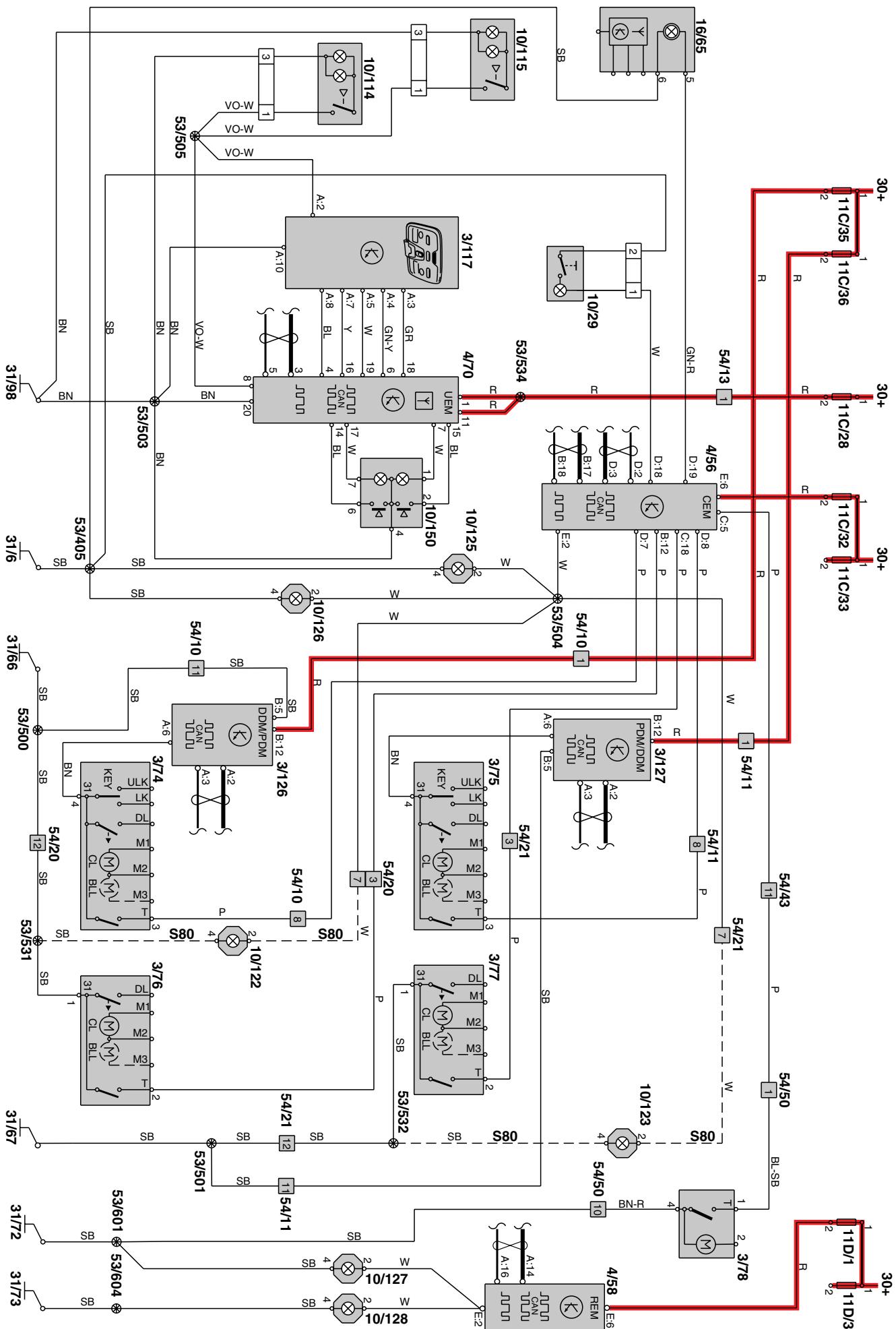
Brake lights



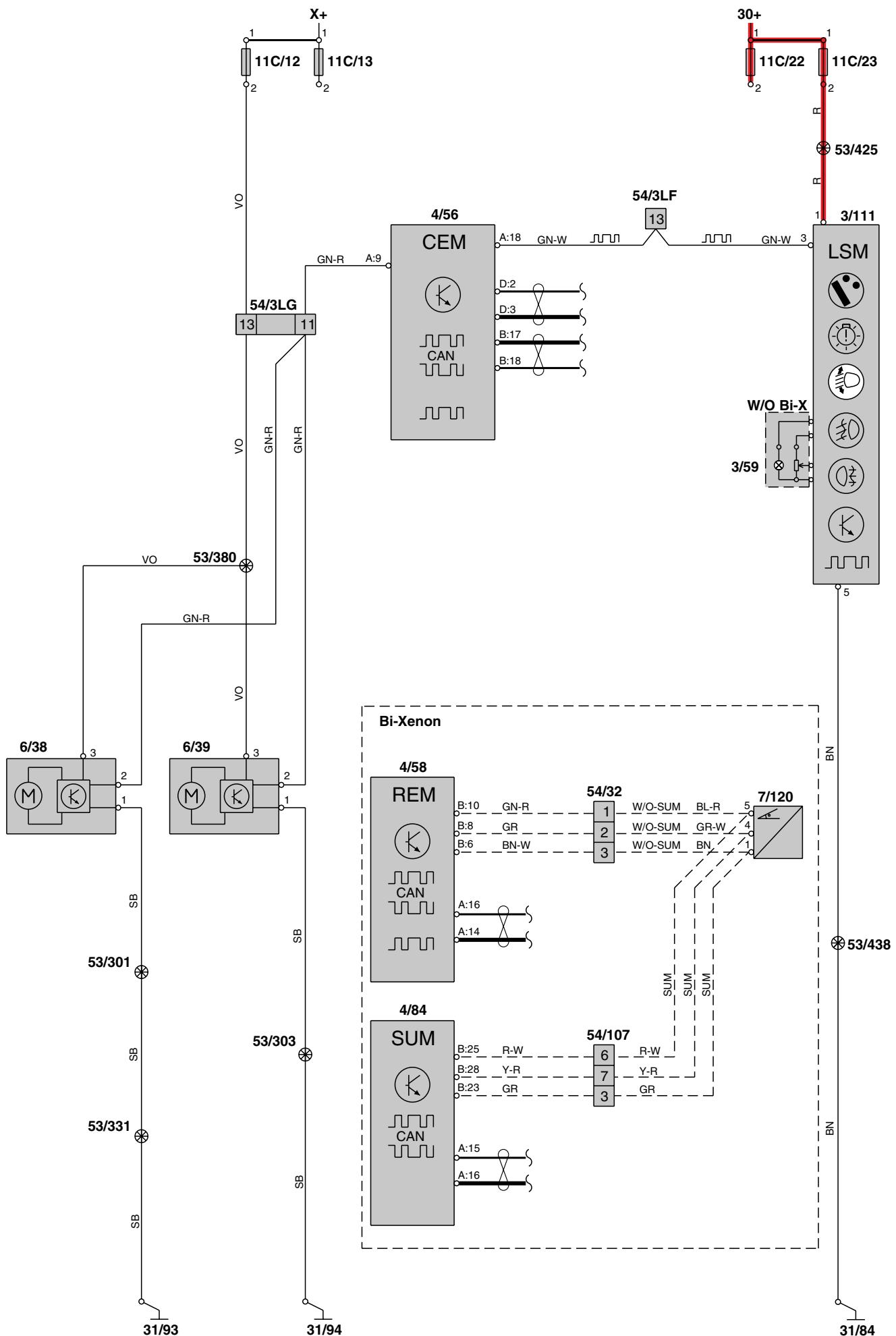
Reversing lights



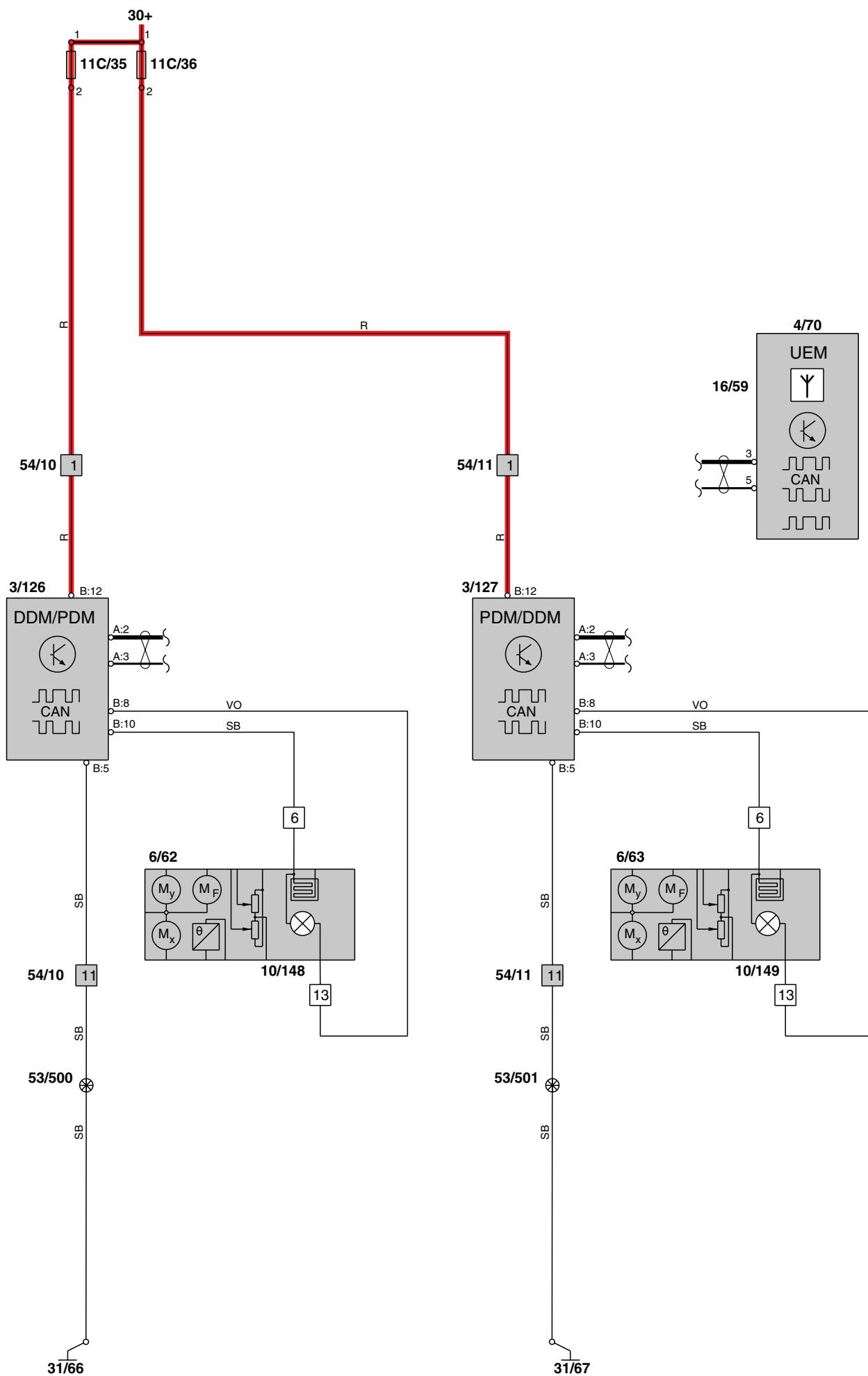
Interior lighting



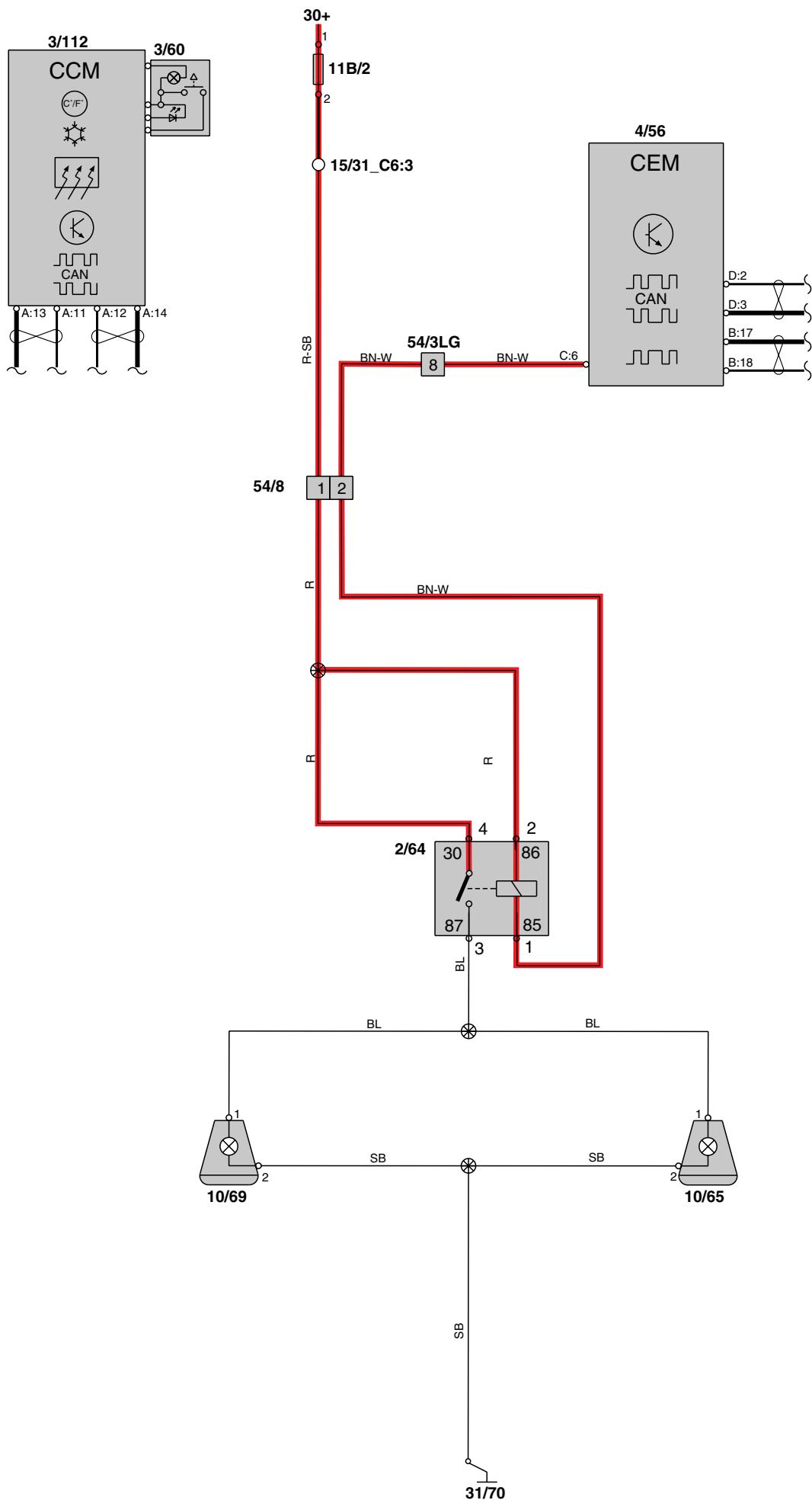
Beam length adjustment



Safety lighting

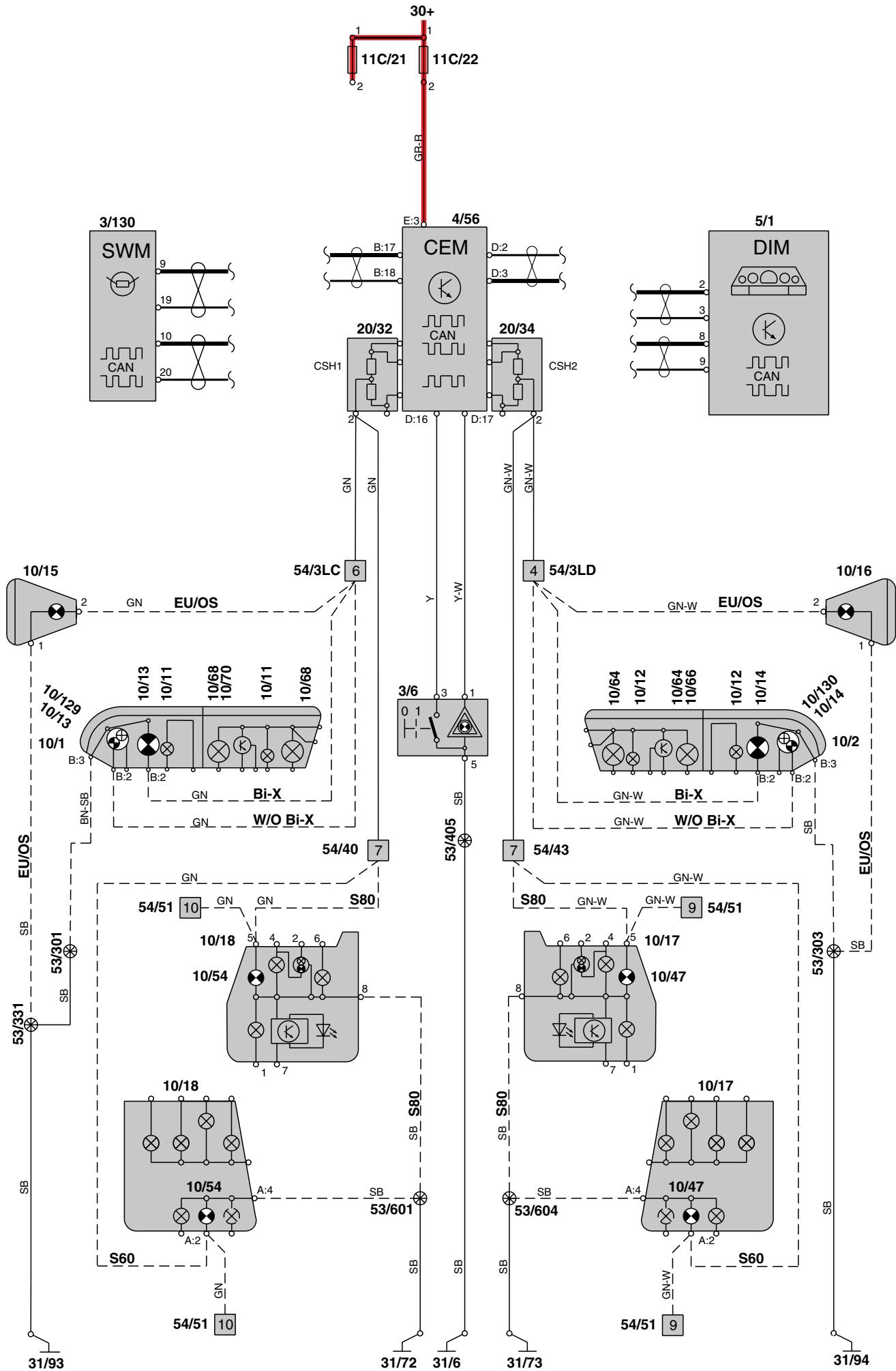


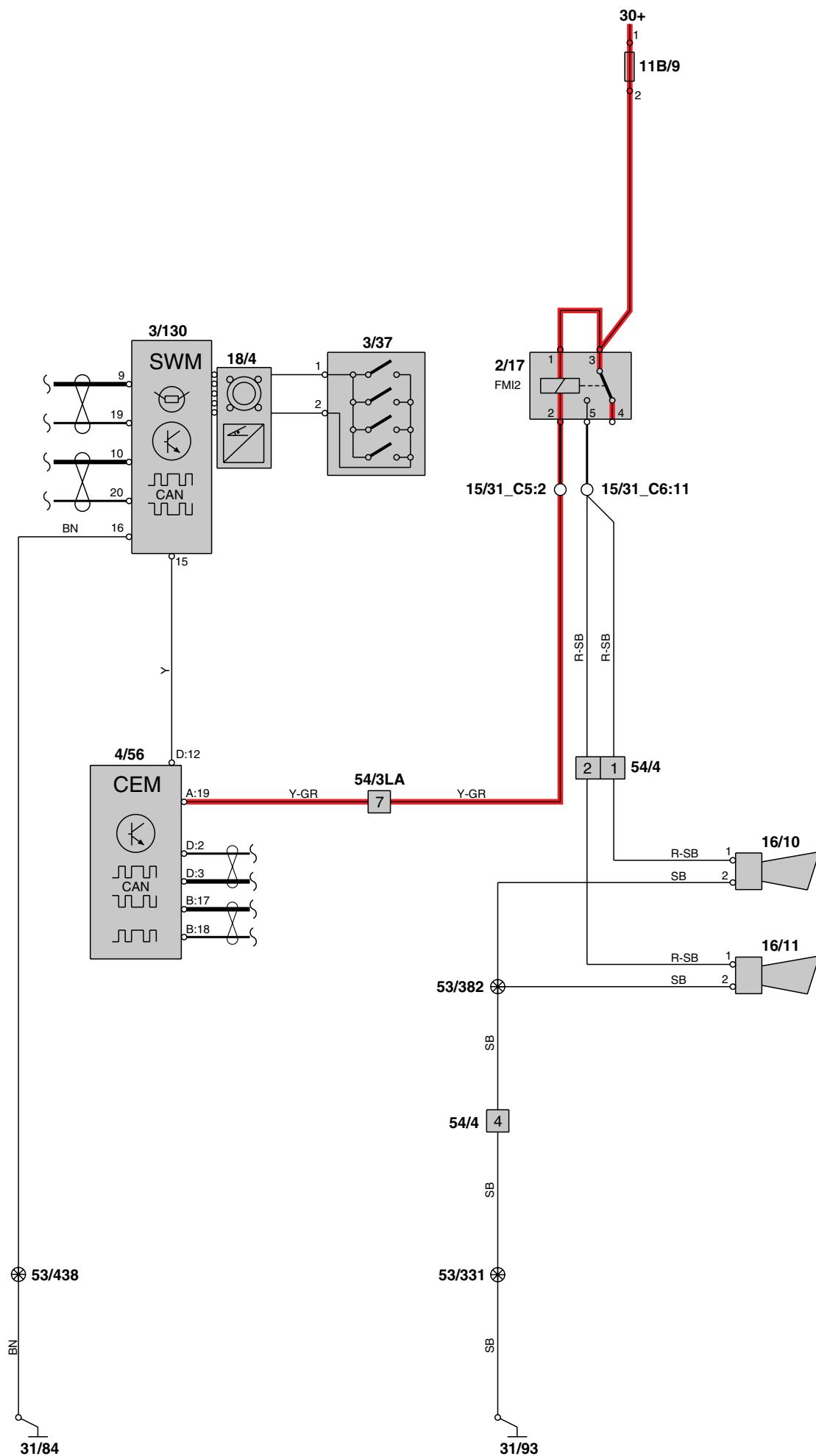
Accessory Auxiliary light



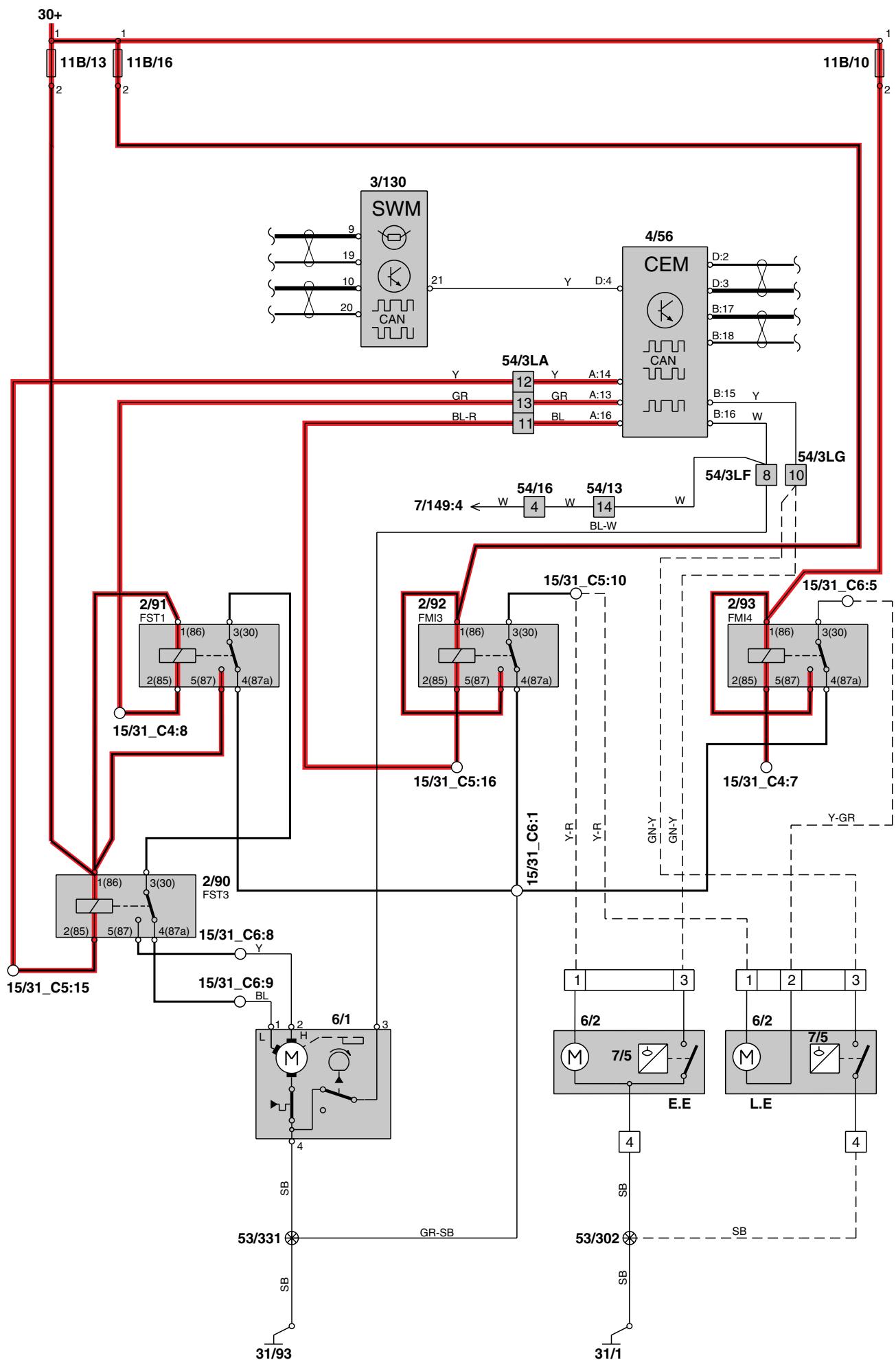
Group 36

Indicators and warning lights

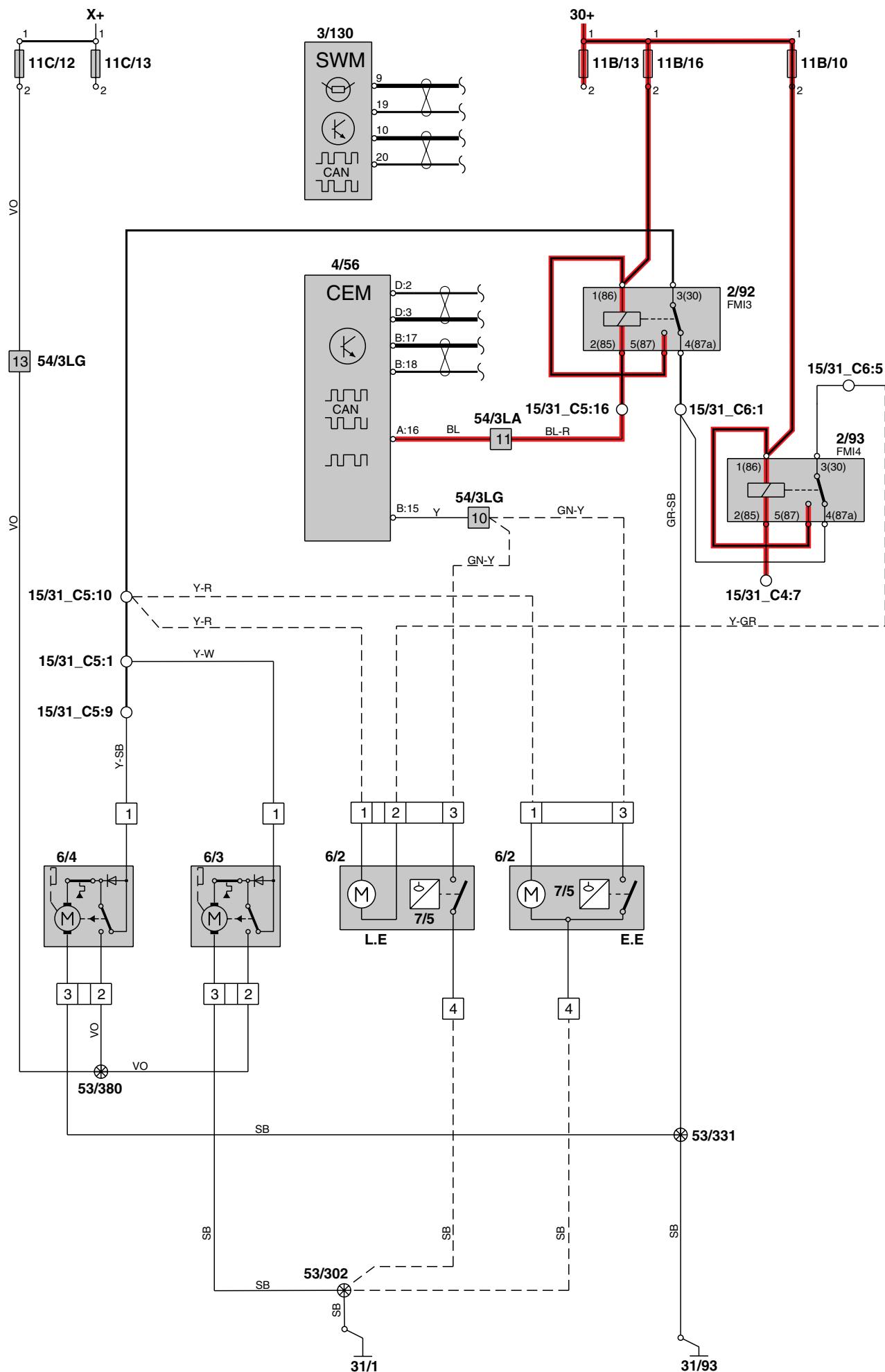




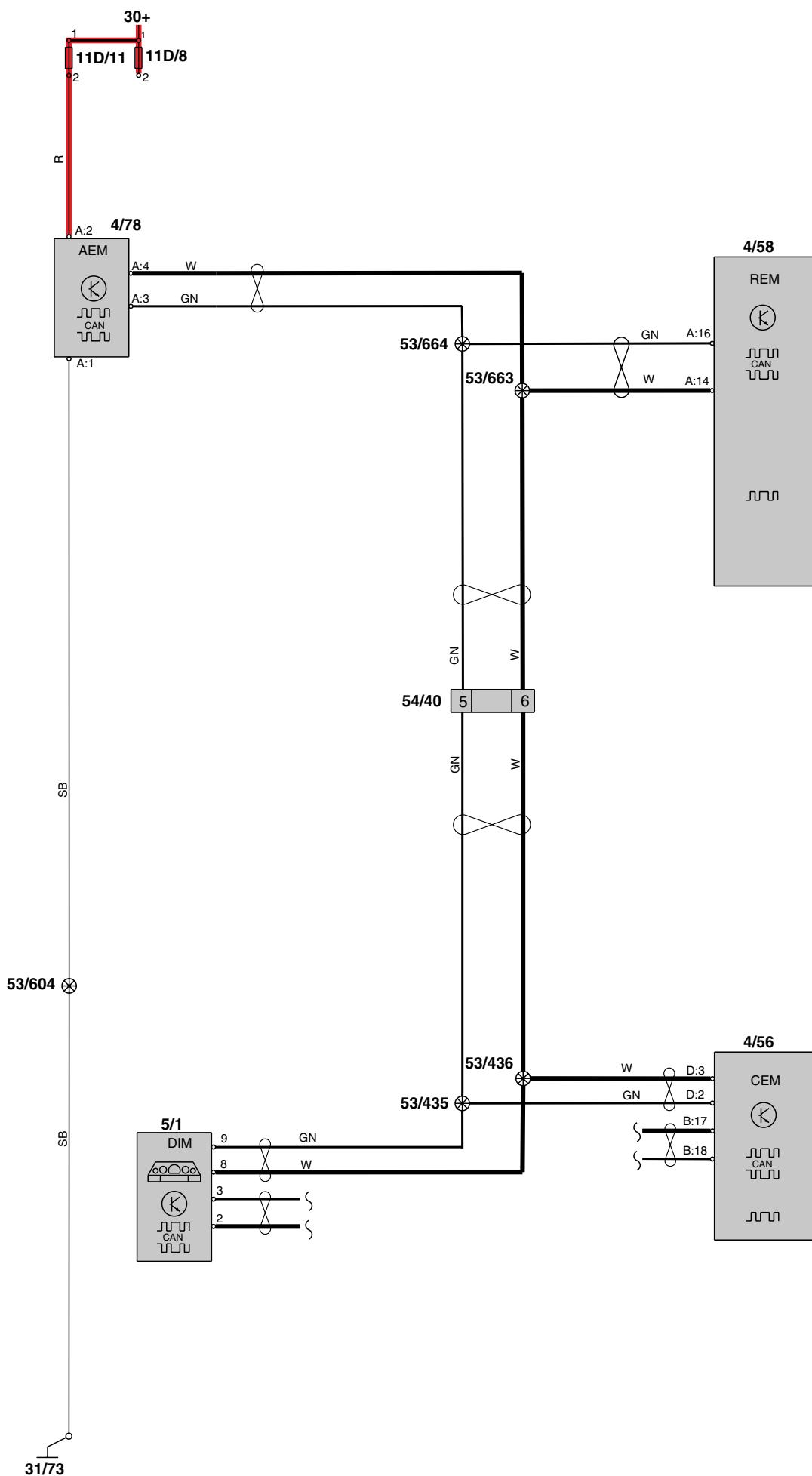
Wiper/washer, windshield



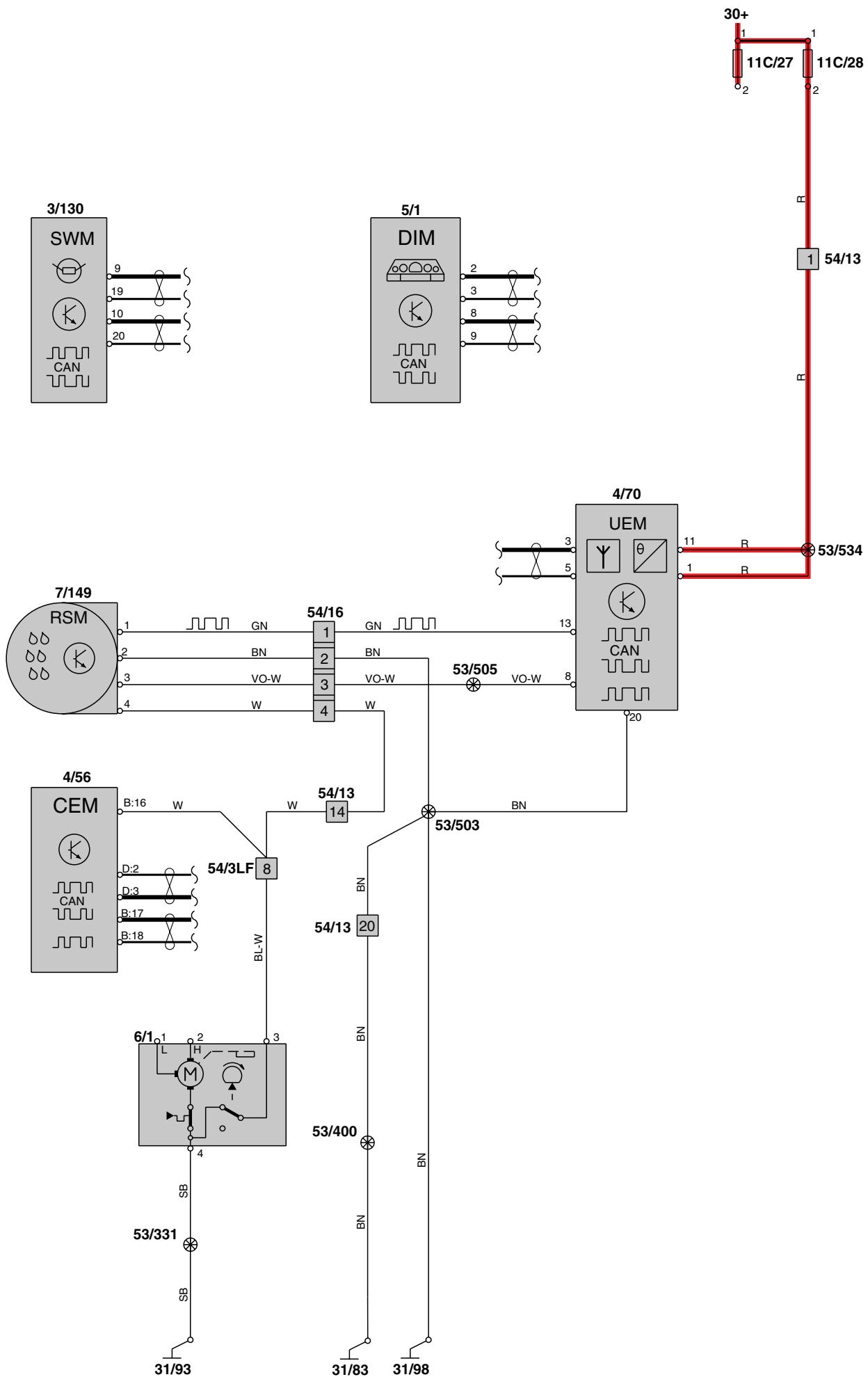
Wiper/washer, headlights



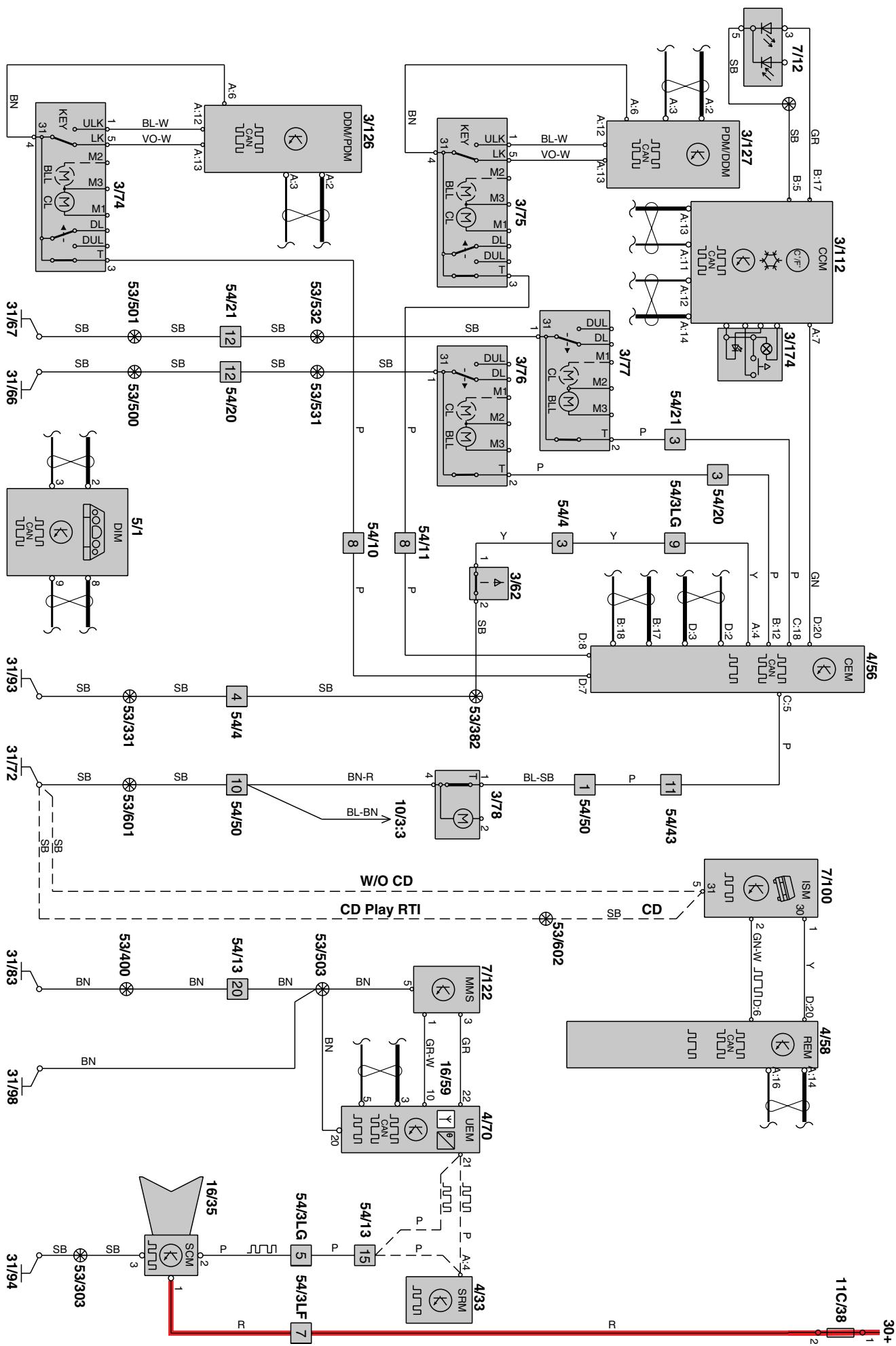
Accessory Electronic Module (AEM)



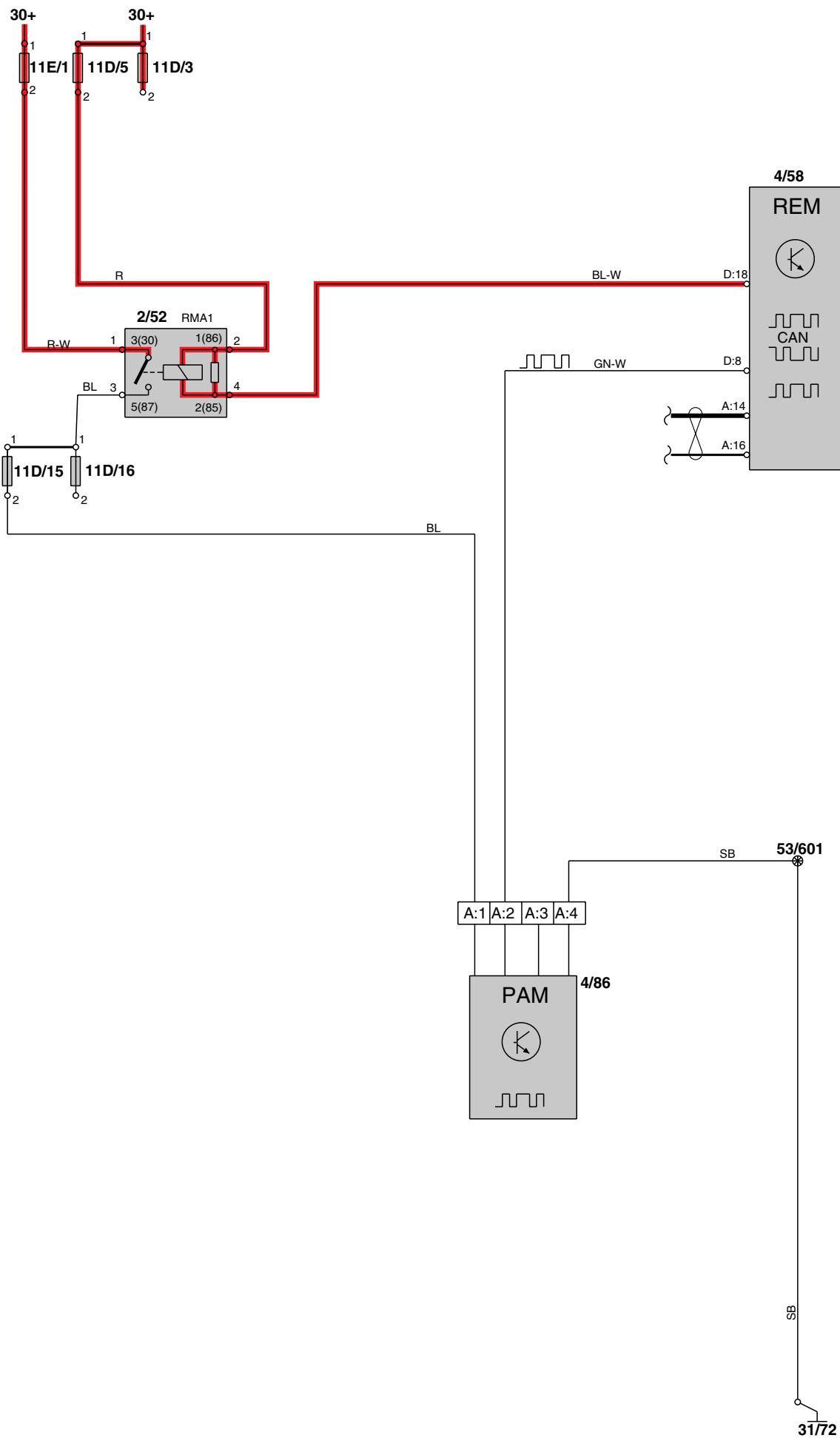
Rain sensor



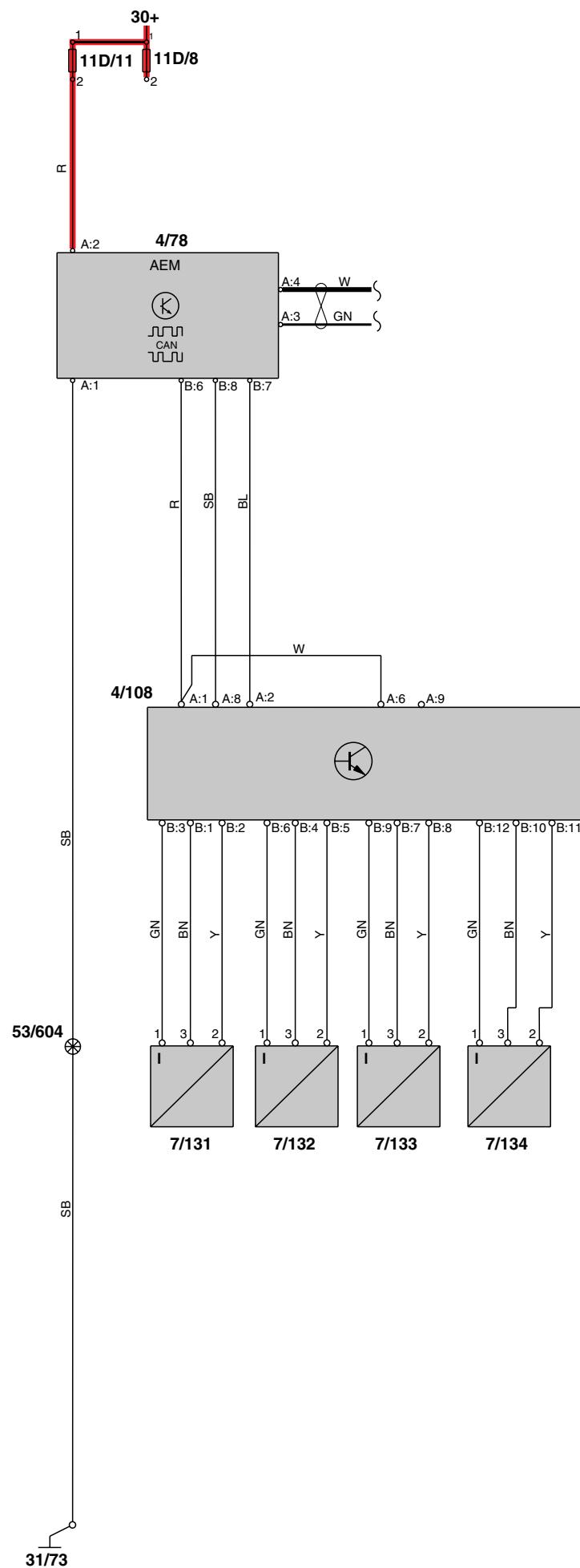
Anti-theftalarm

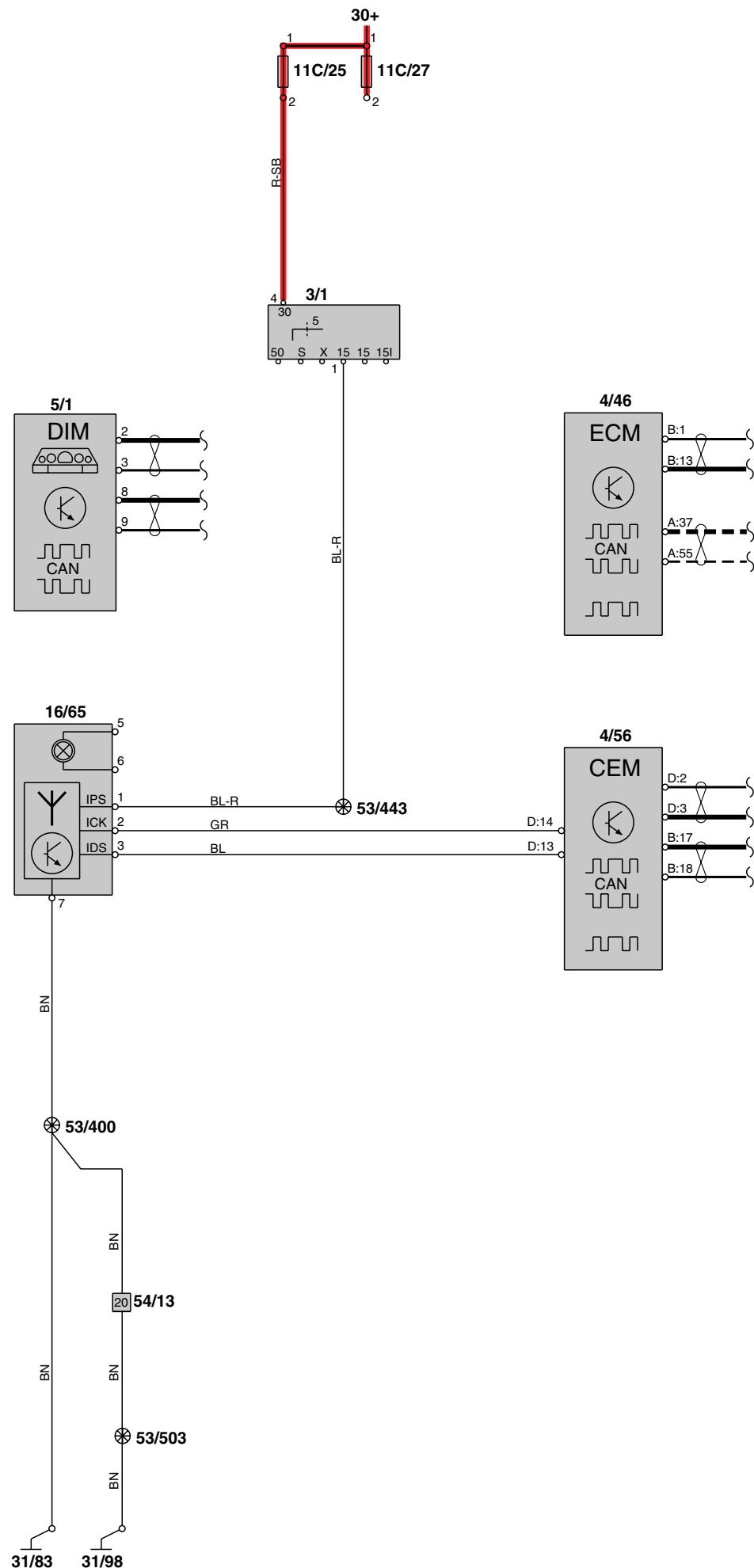


Parking Assistance system S80



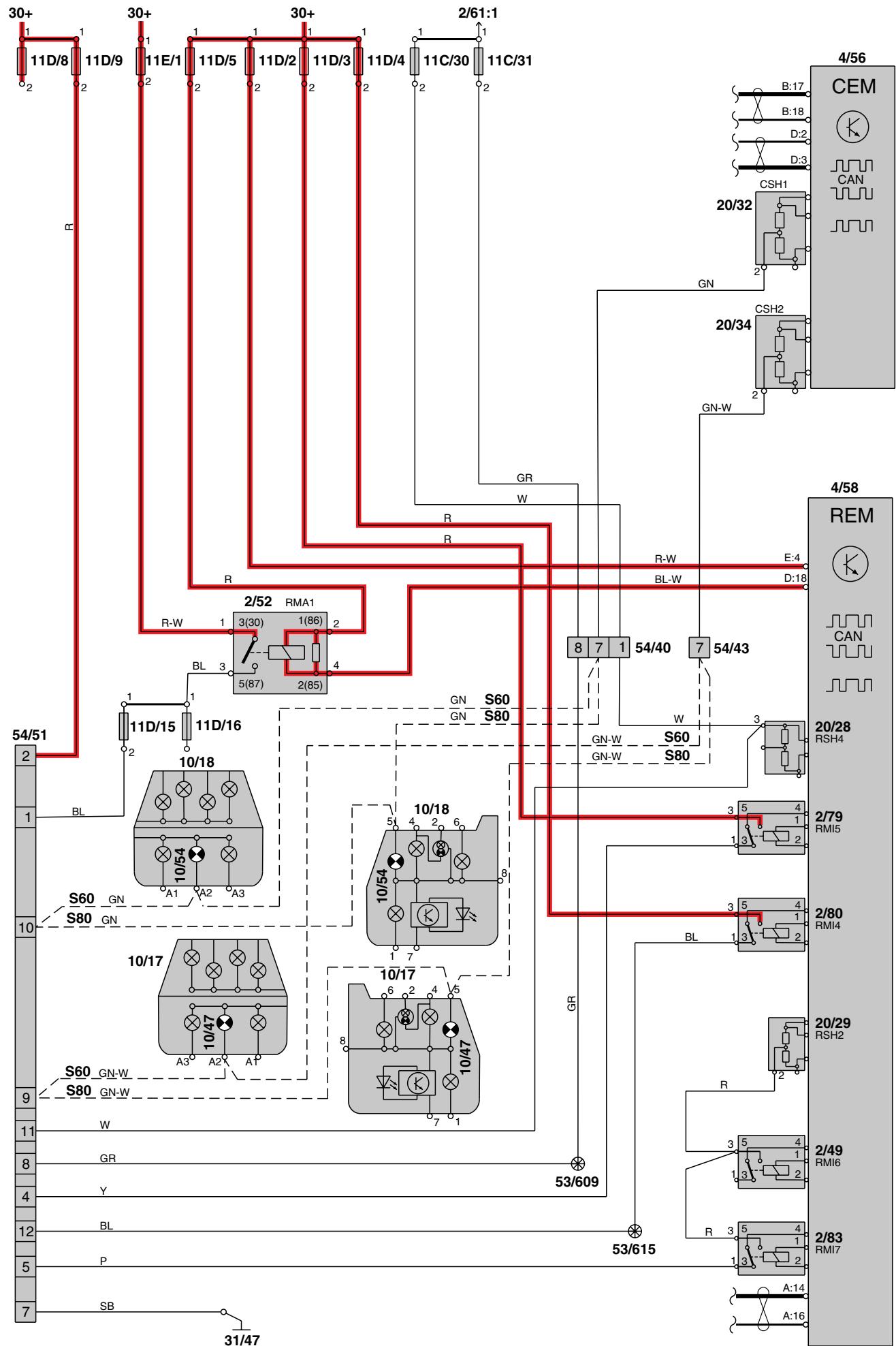
Accessory Parking Assistance system



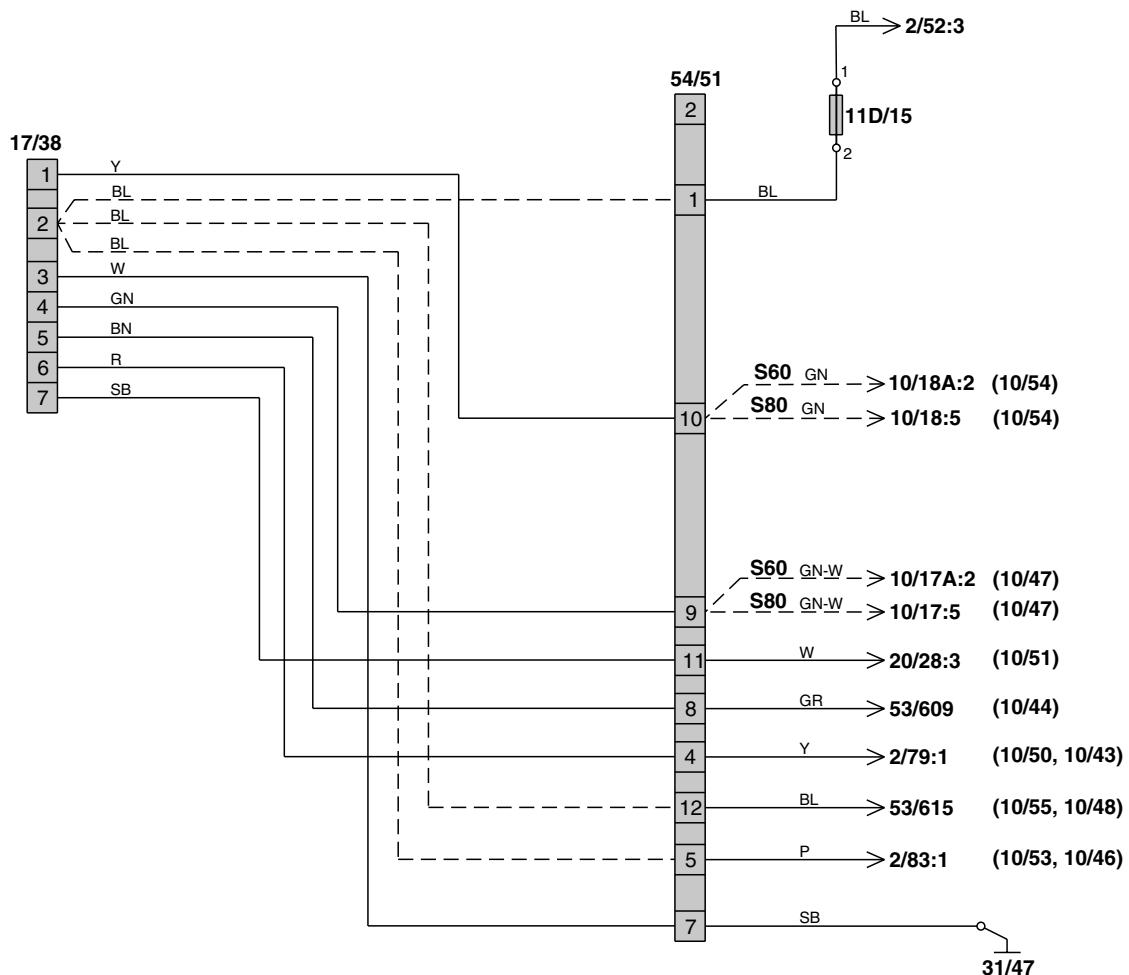


Group 37

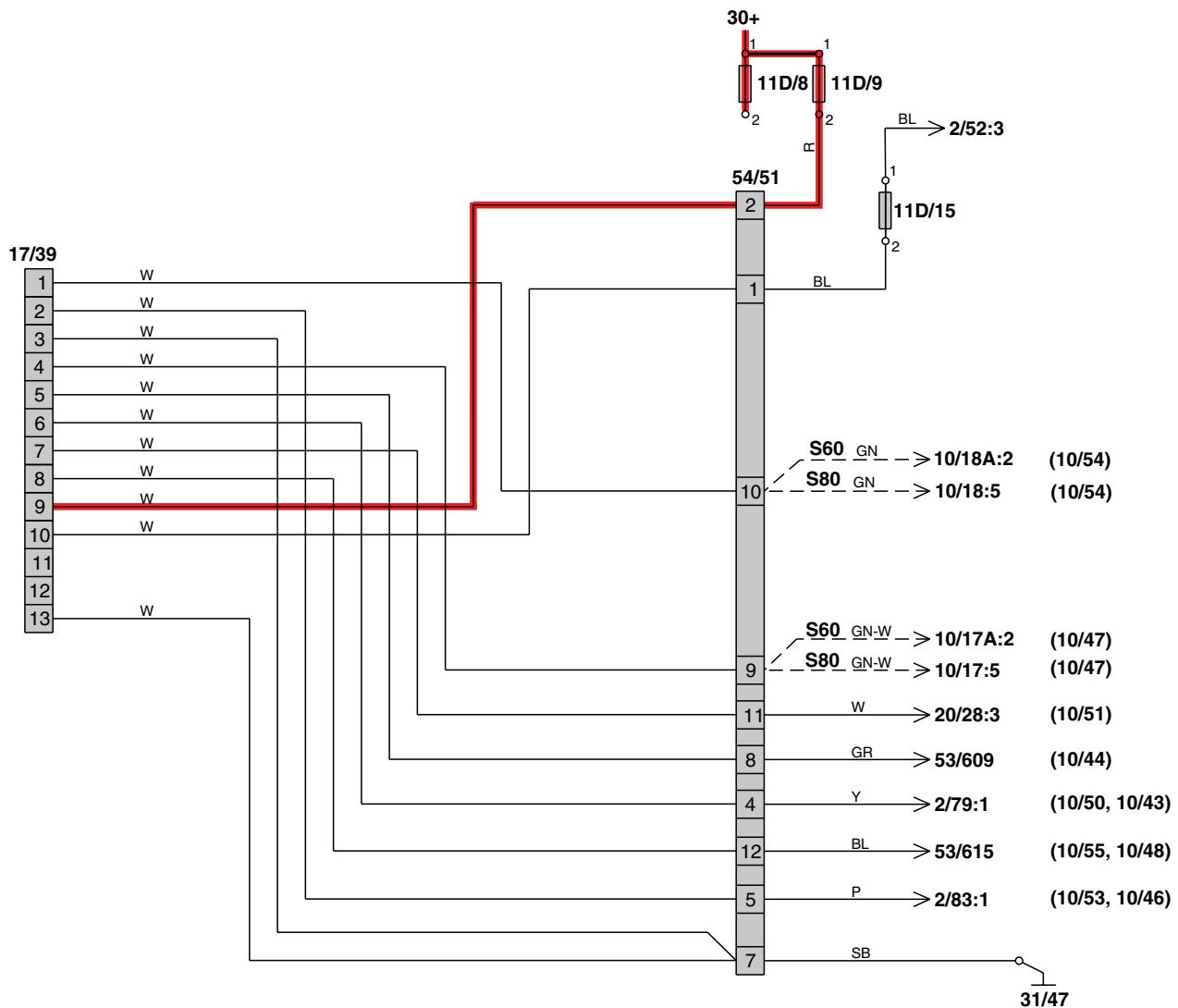
Trailer functions



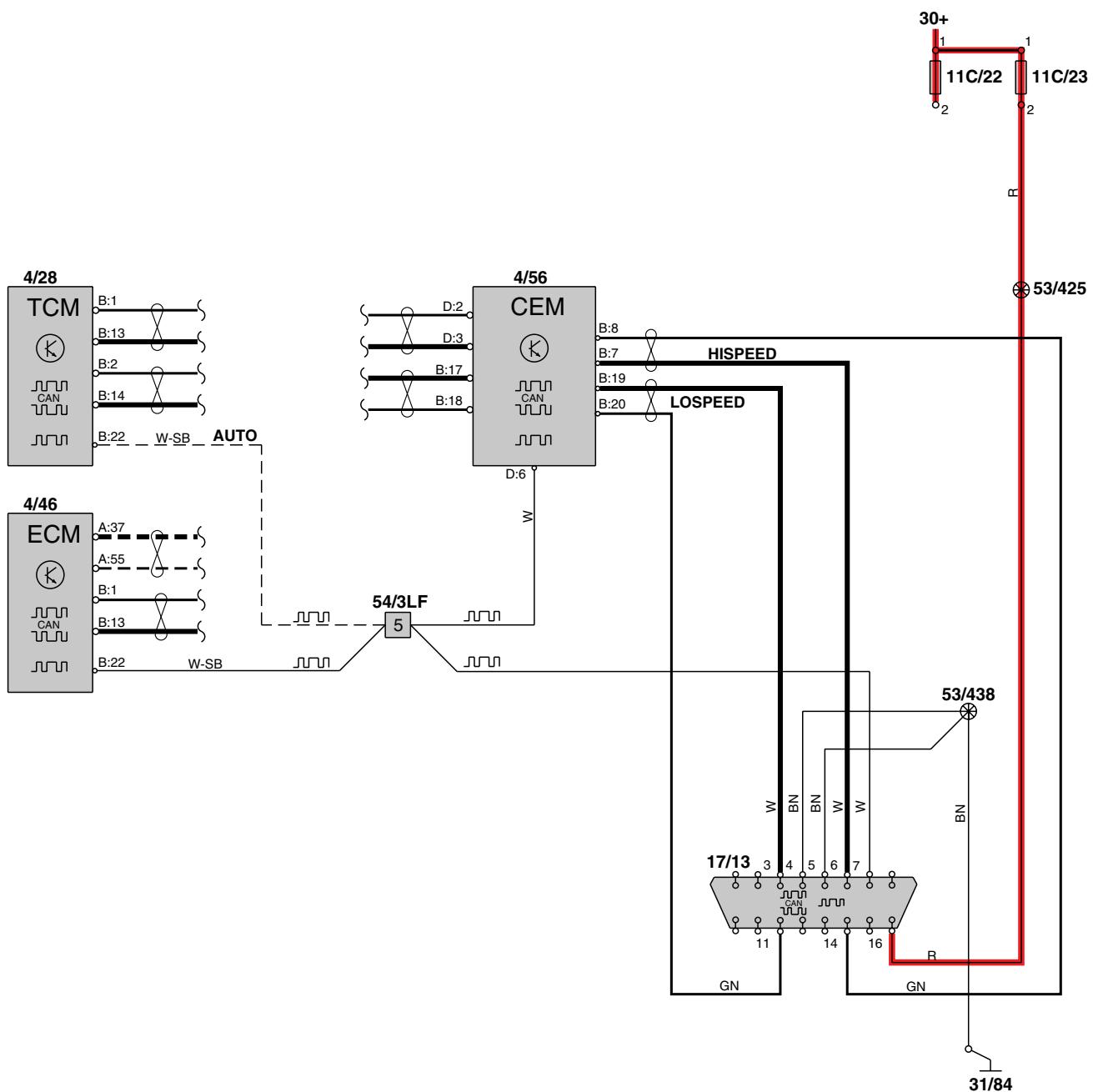
Accessory
Towing bracket wiring, 7-pin



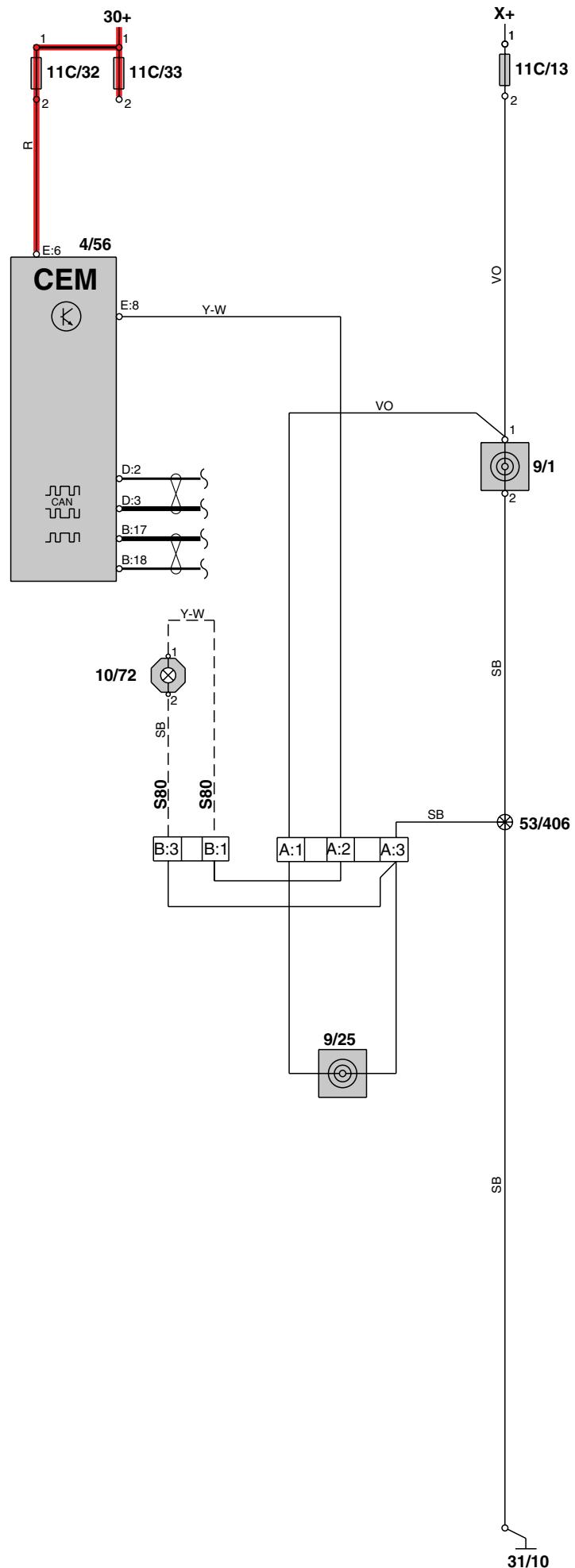
Accessory Towing bracket wiring, 13-pin



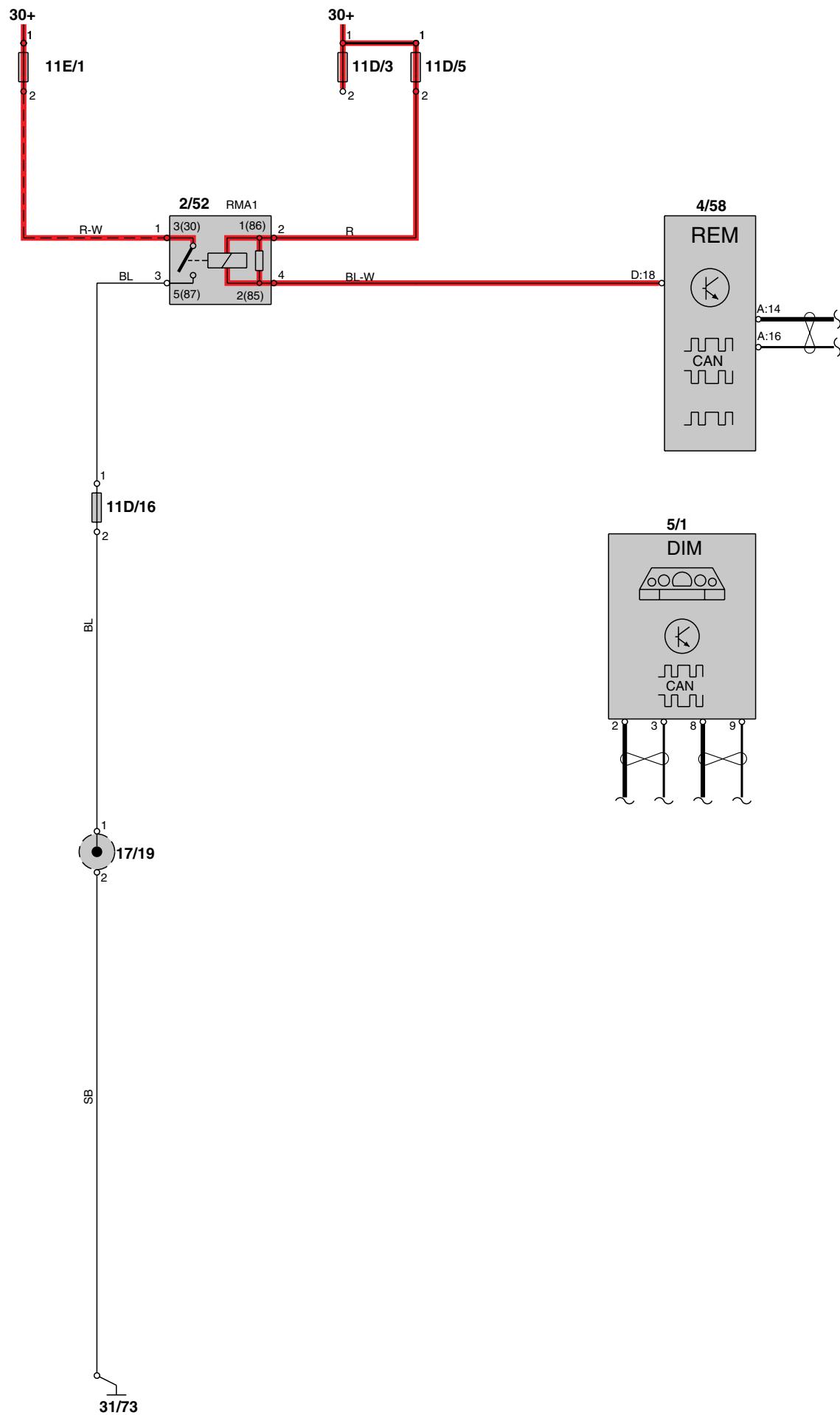
Diagnostics system



12V outlet

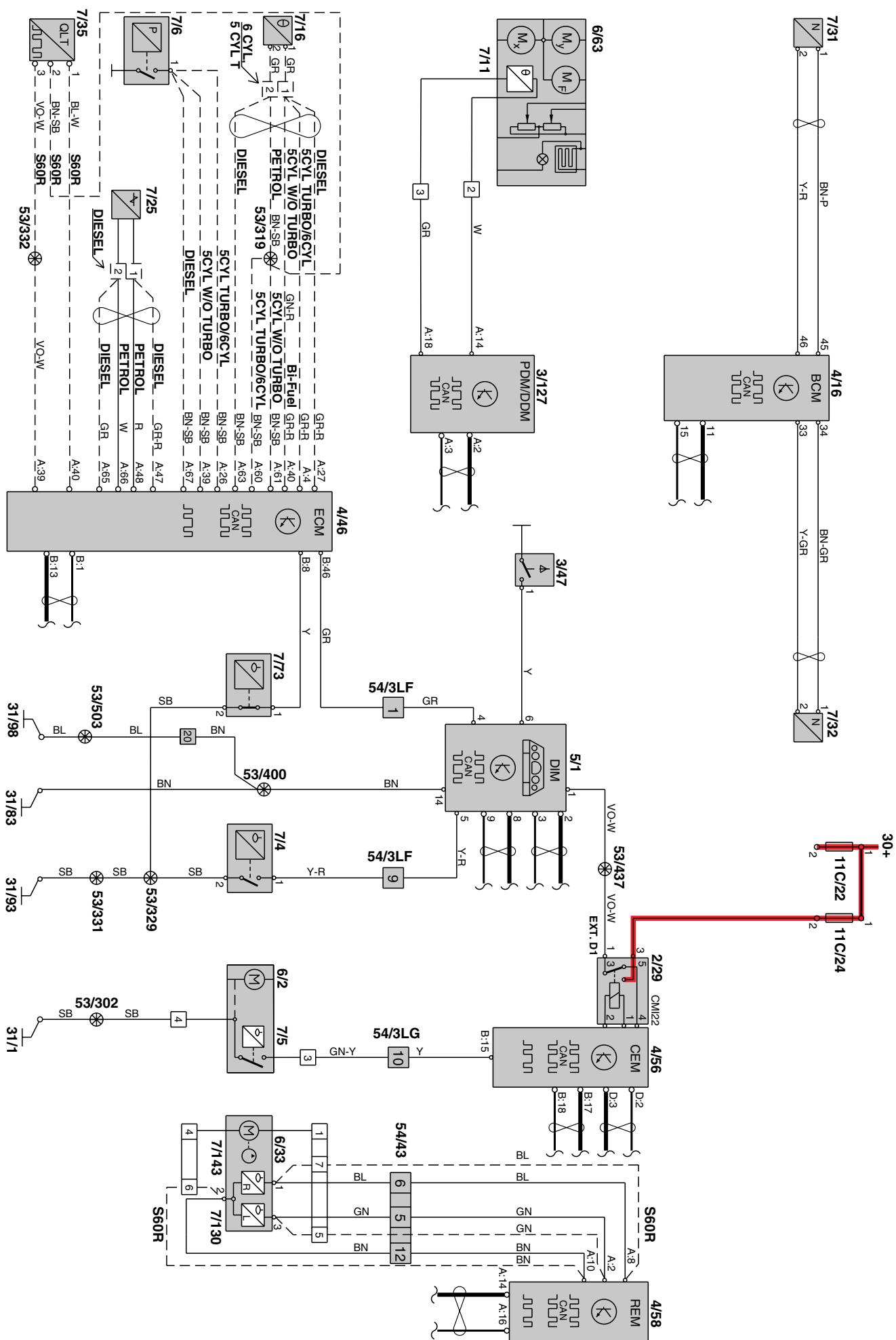


Accessory
12V cargo compartment socket

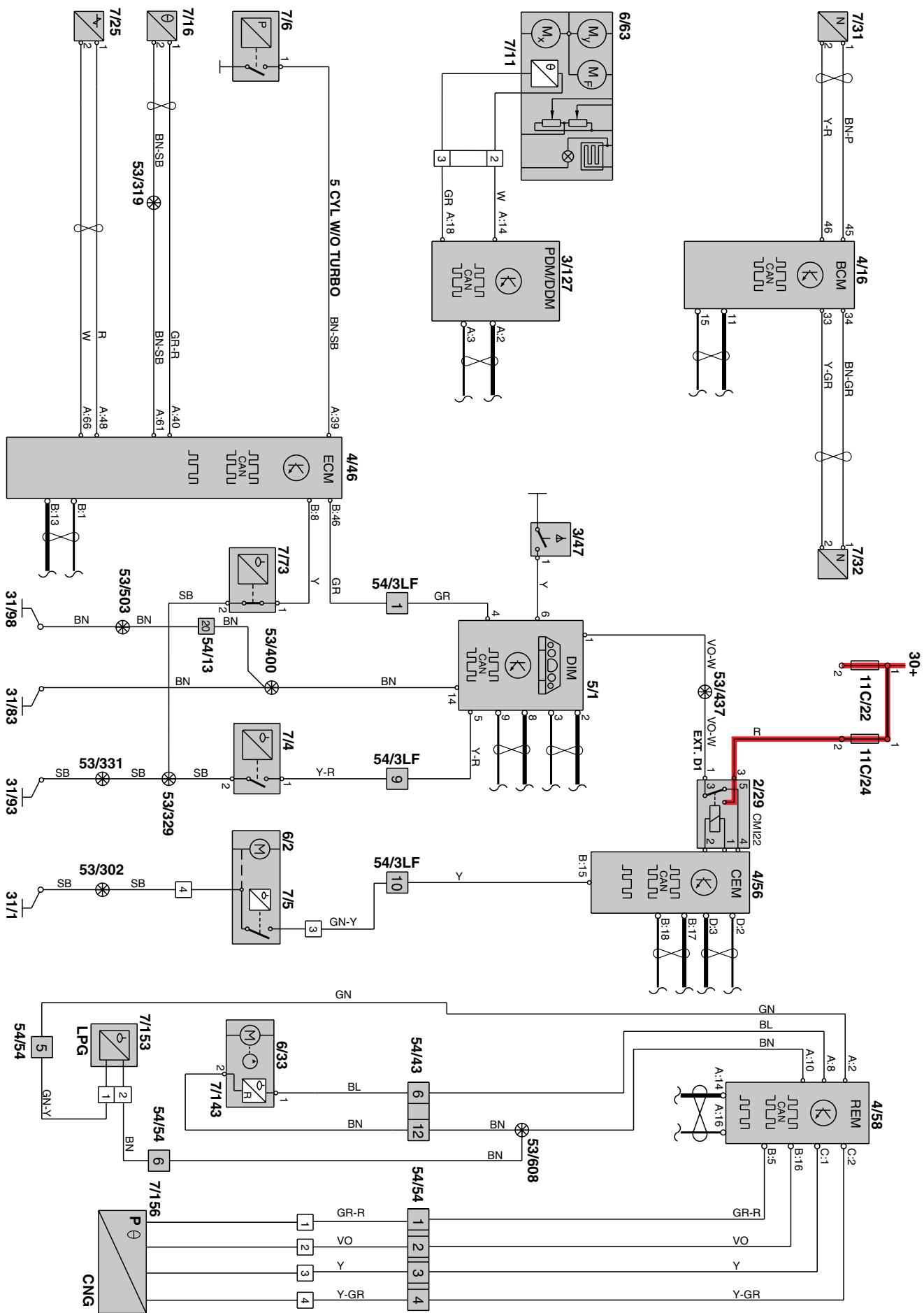


Group 38

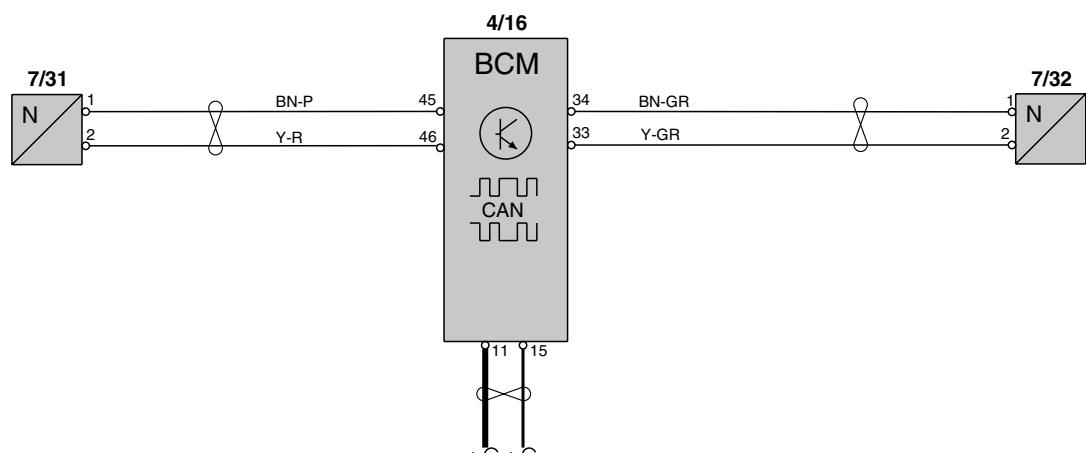
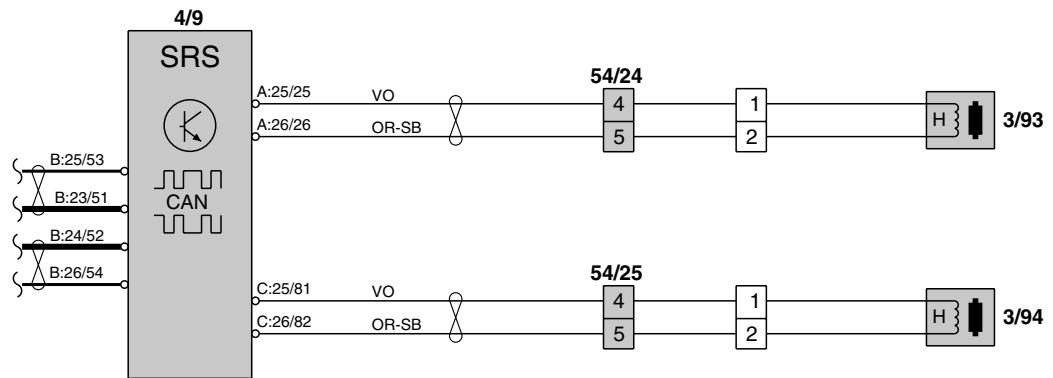
Driver information module



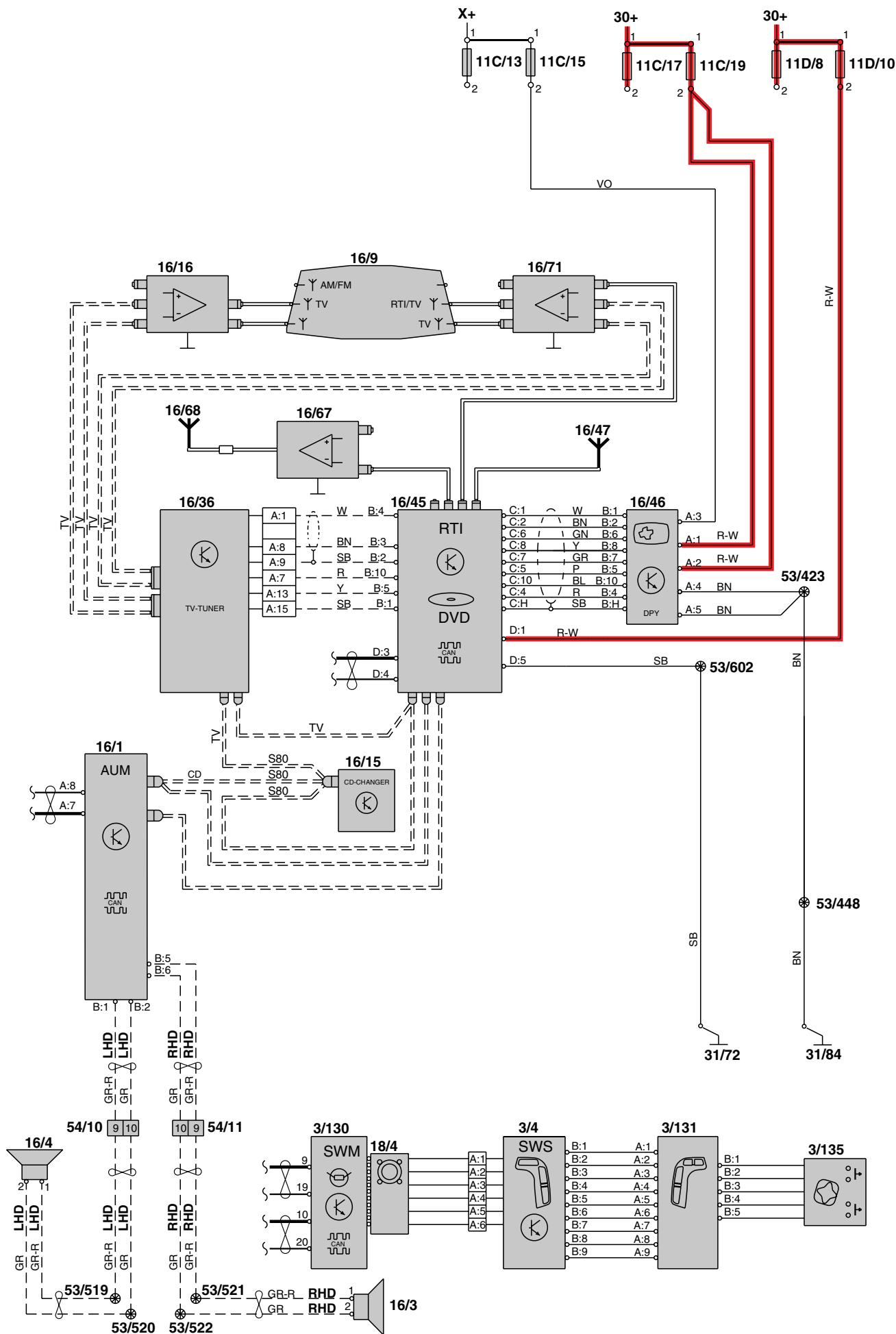
Driver information module, Bi-Fuel



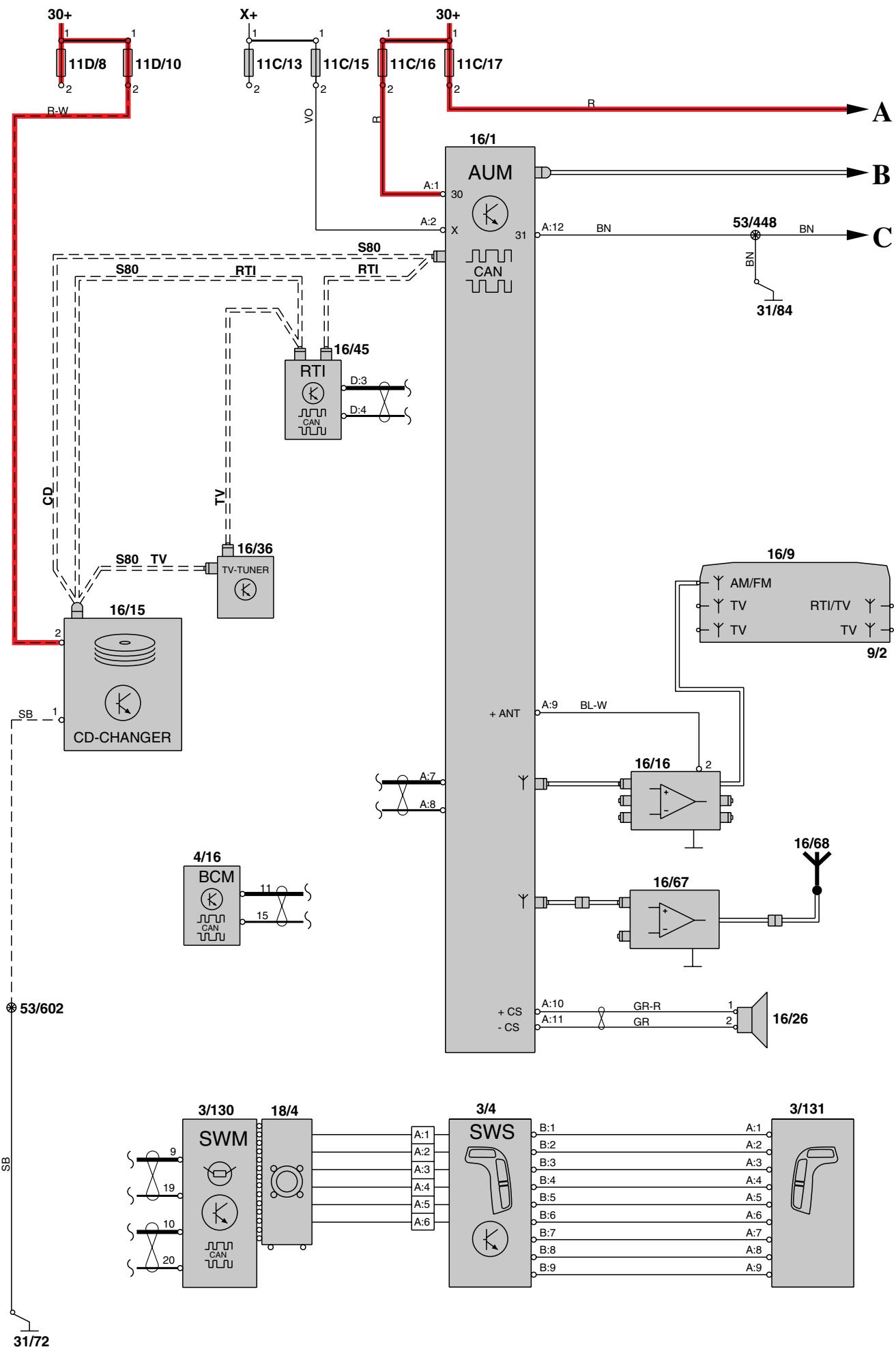
Seat belt reminder



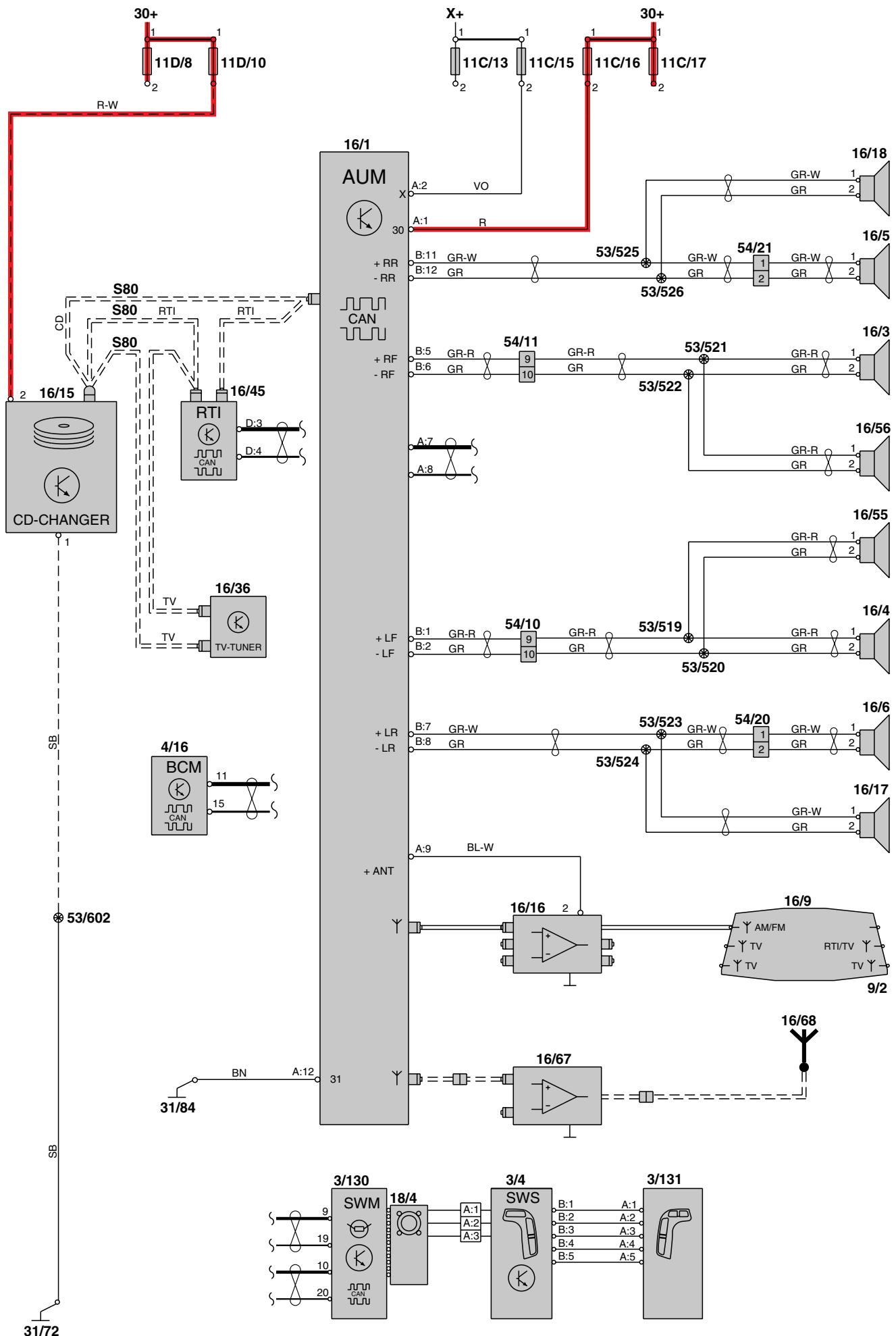
Group 39
Road Traffic Information RTI



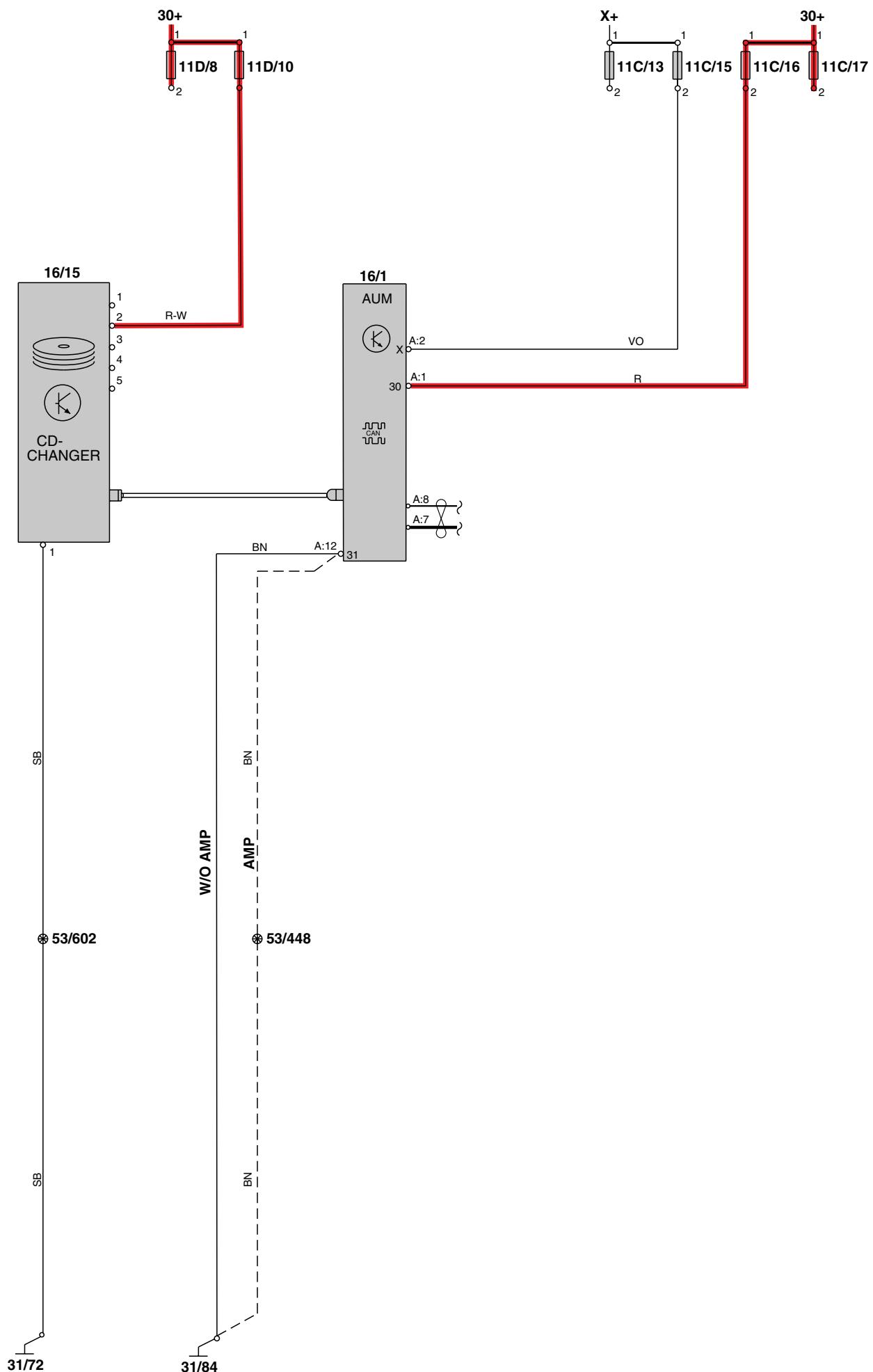
Audio with auxiliary amplifier



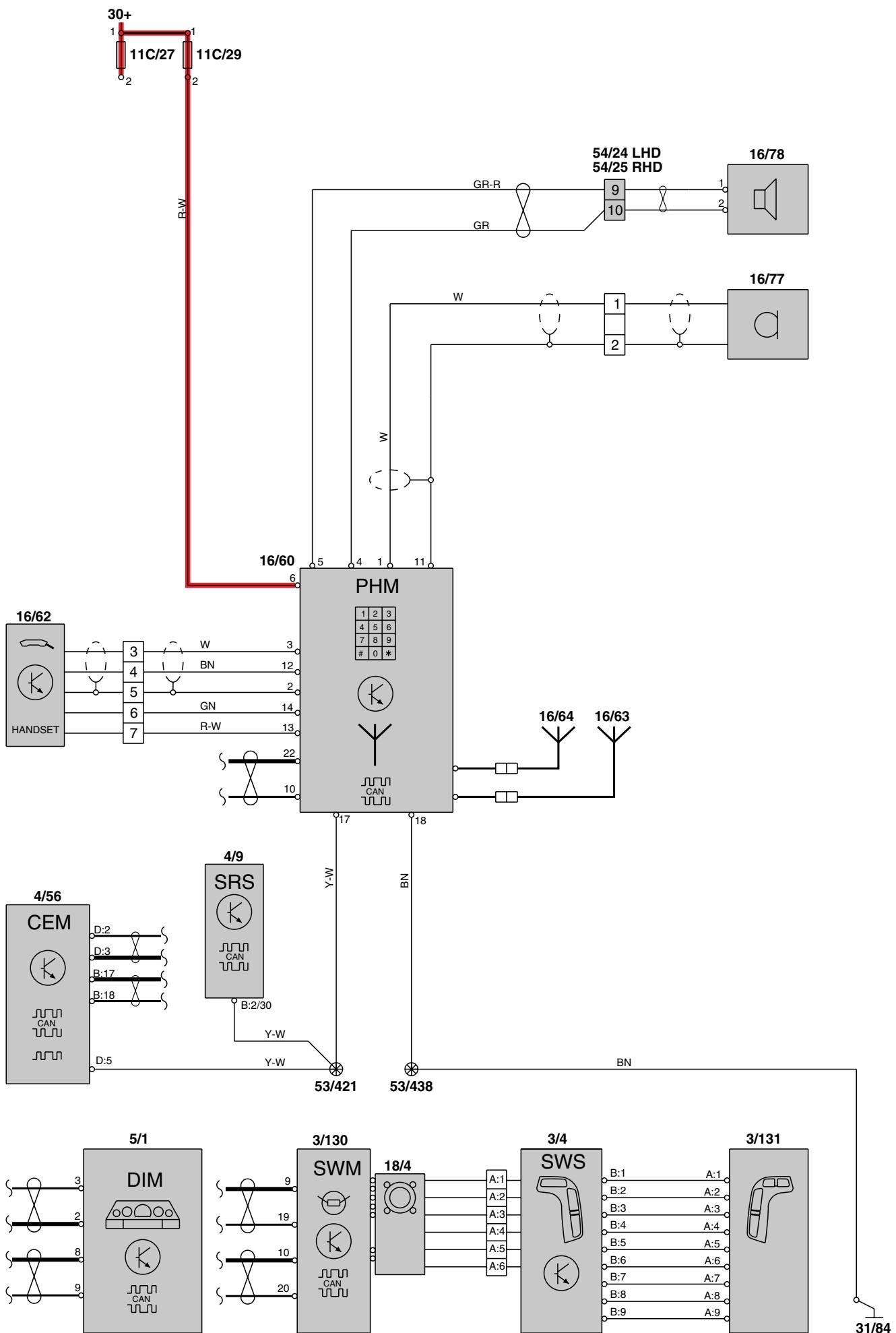
Audio

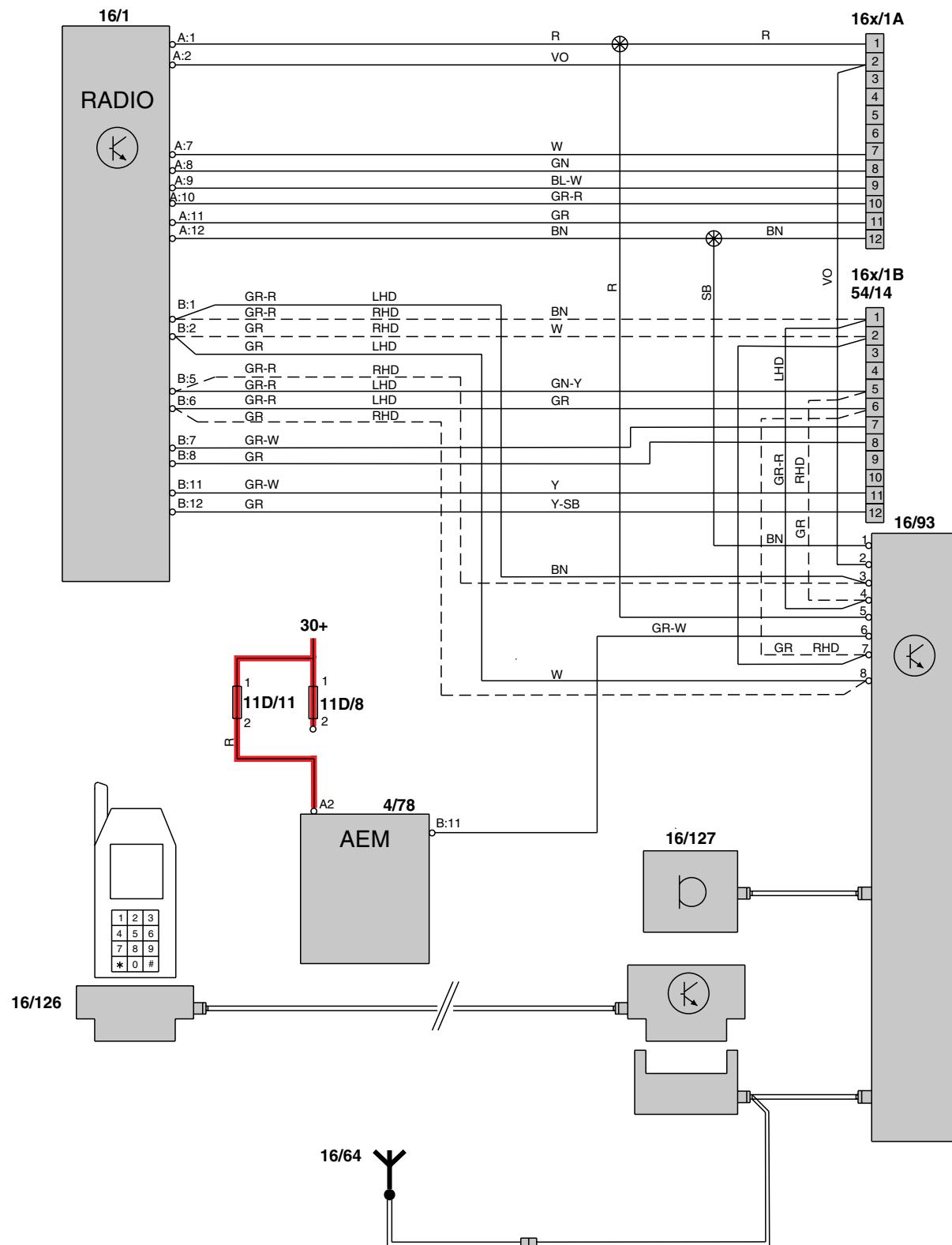


Accessory CD changer



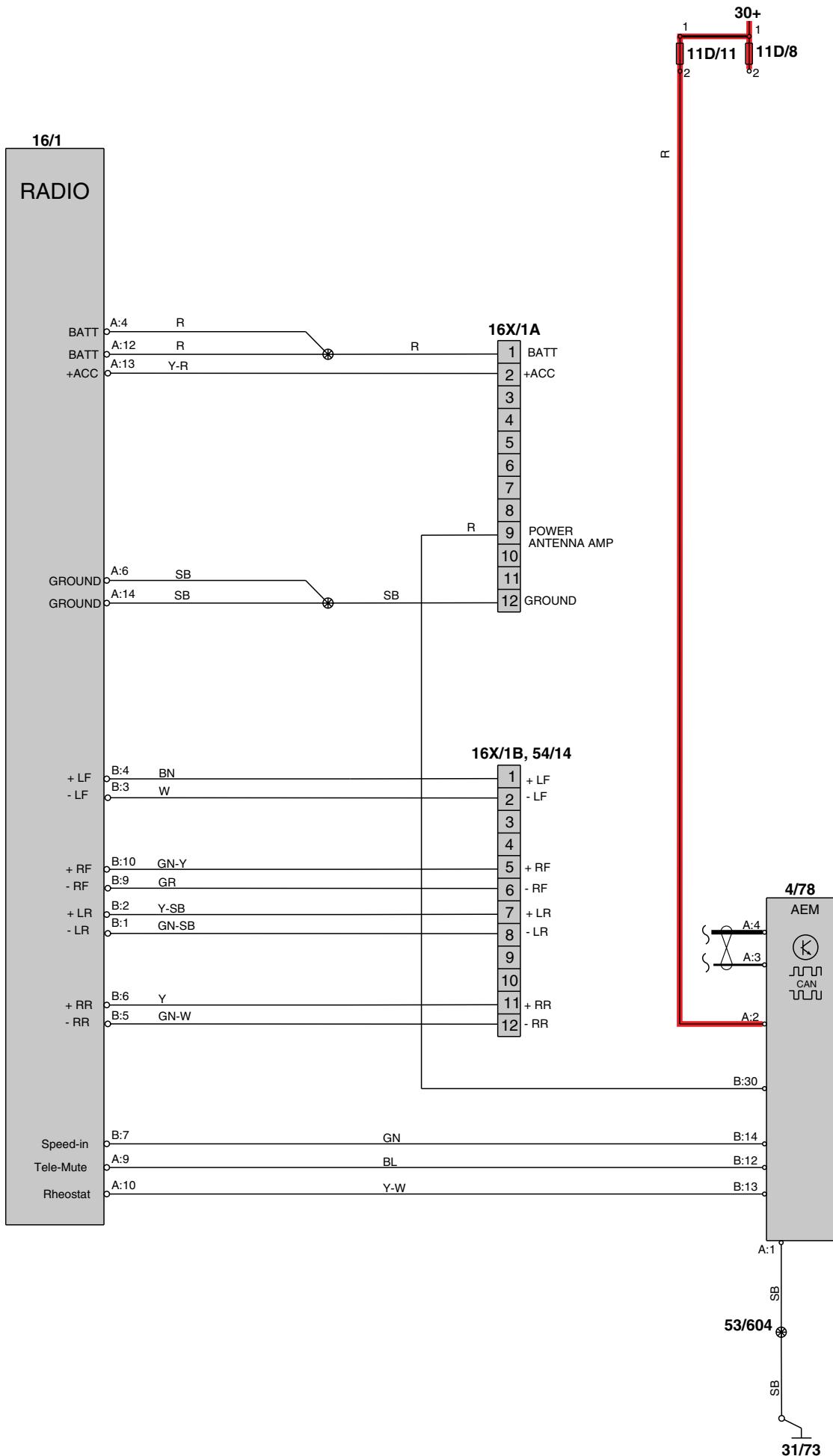
Mobile phone

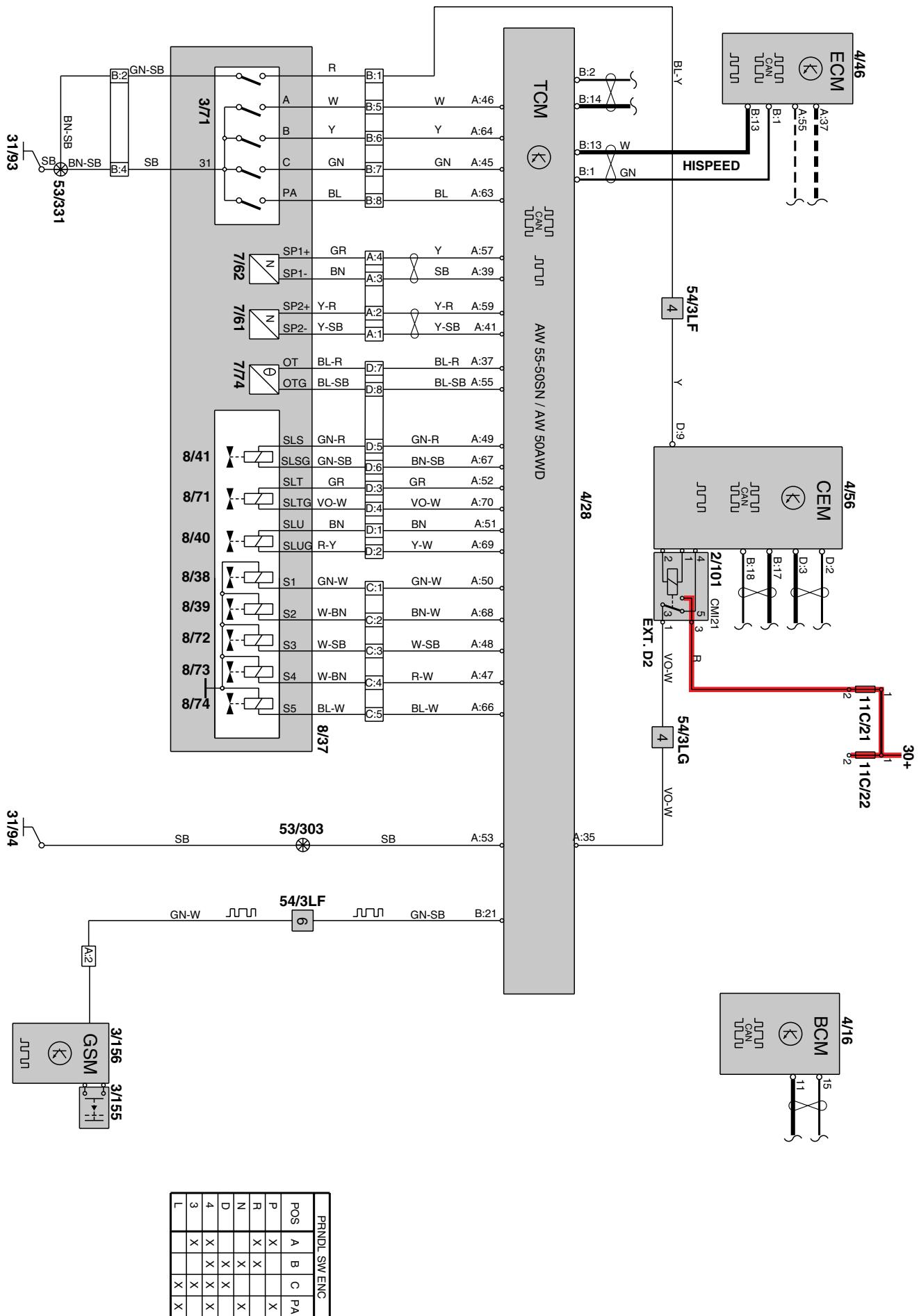




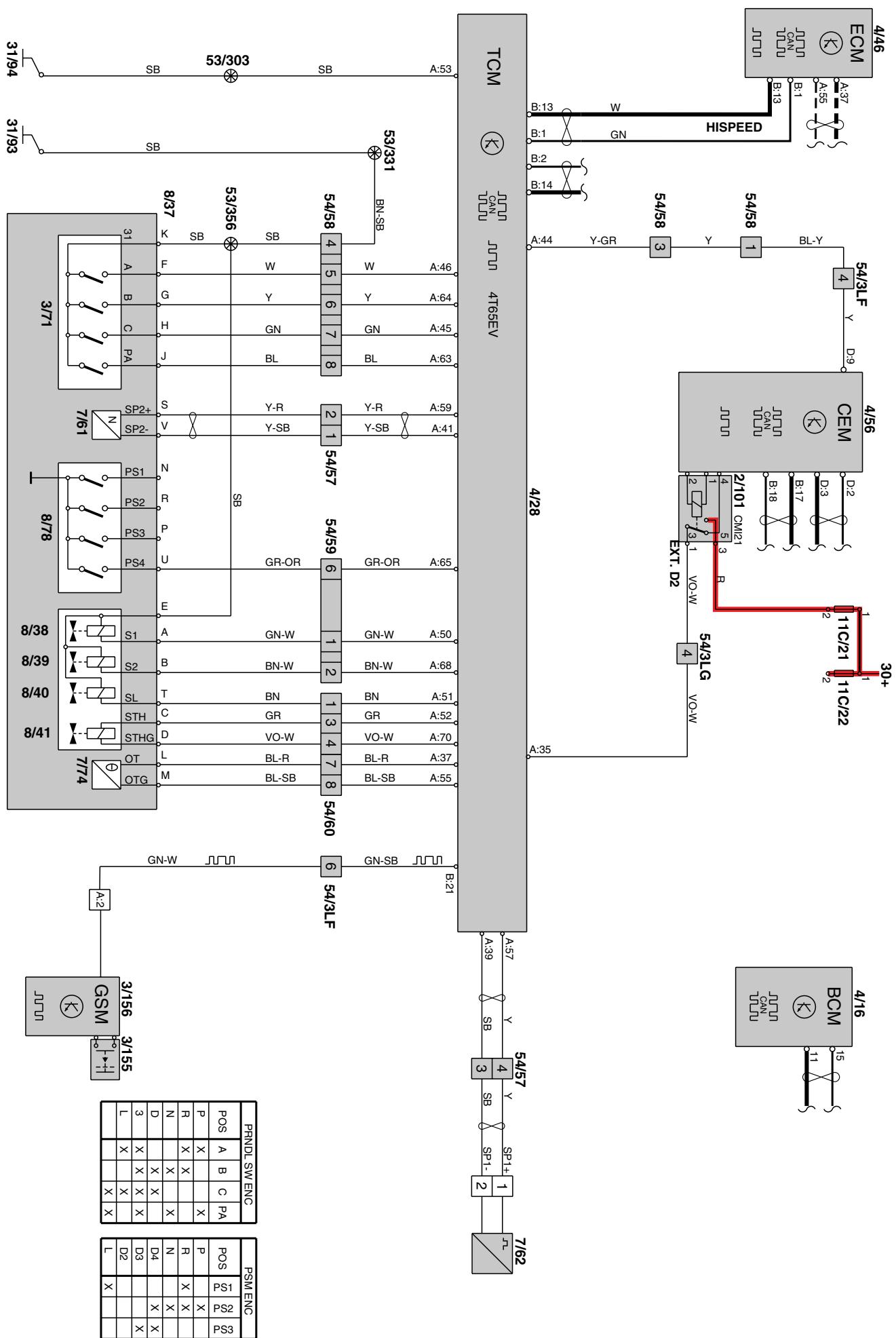
Accessory

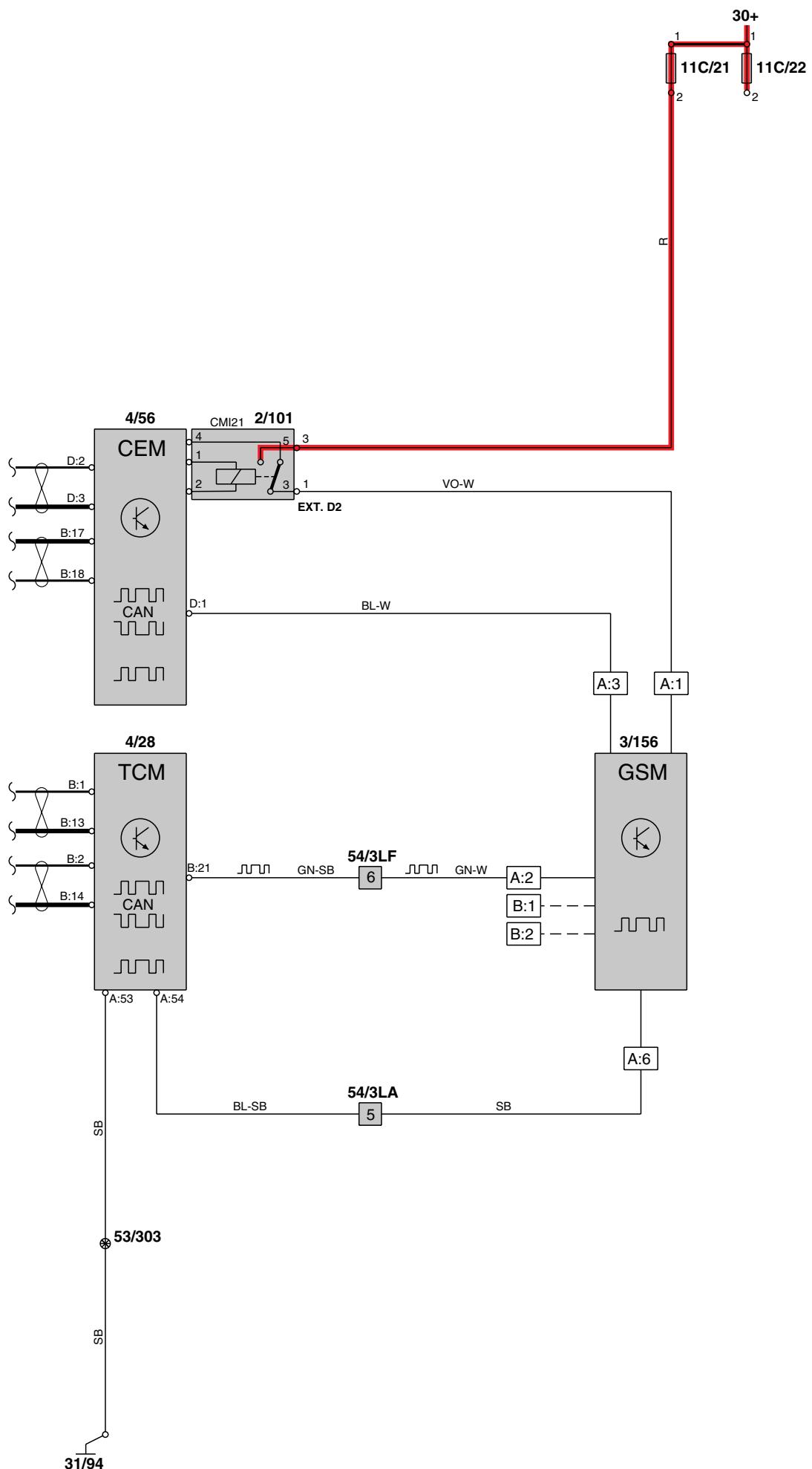
Audio adapter wiring



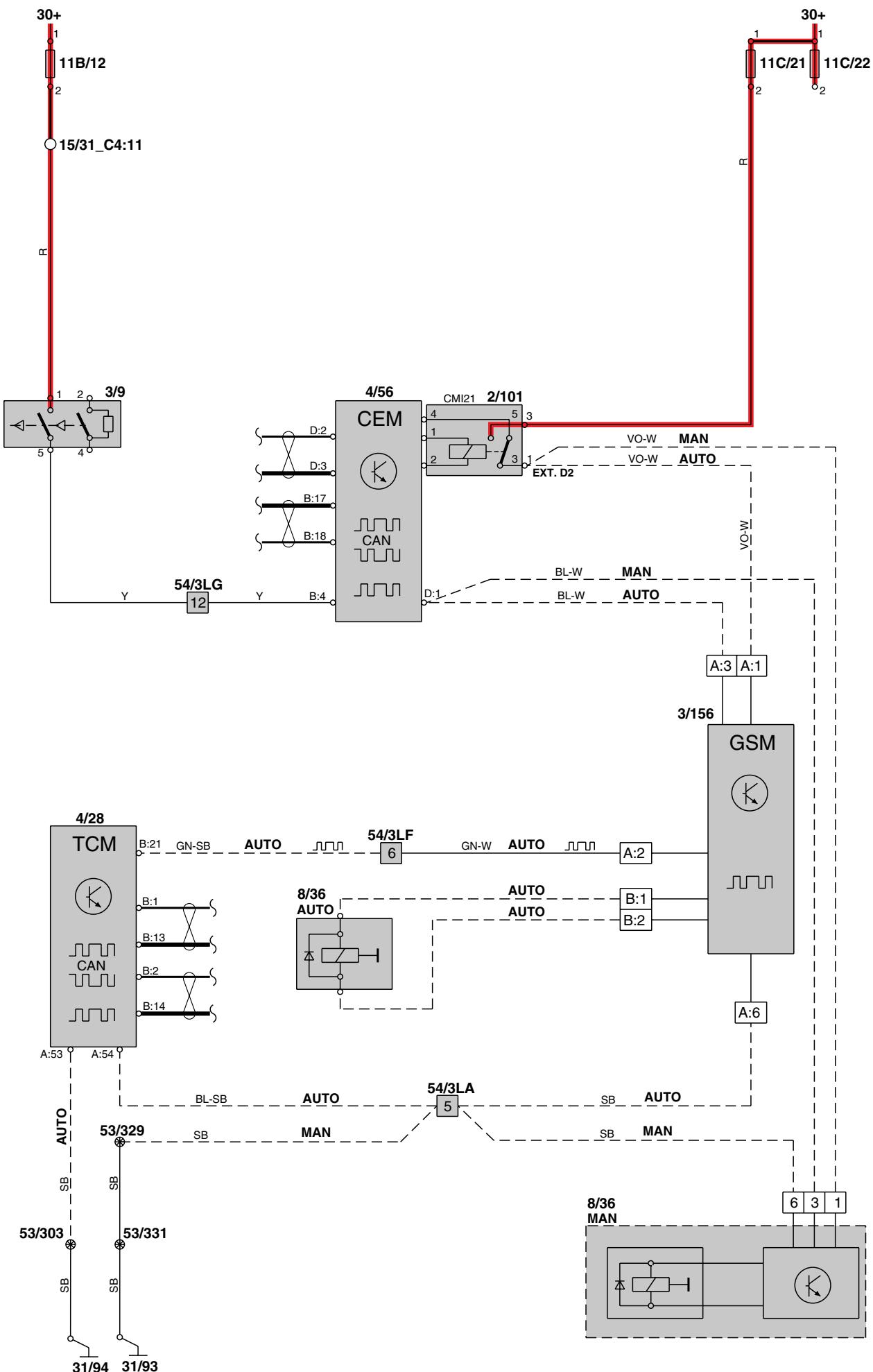


Automatic transmission, 4T65EV

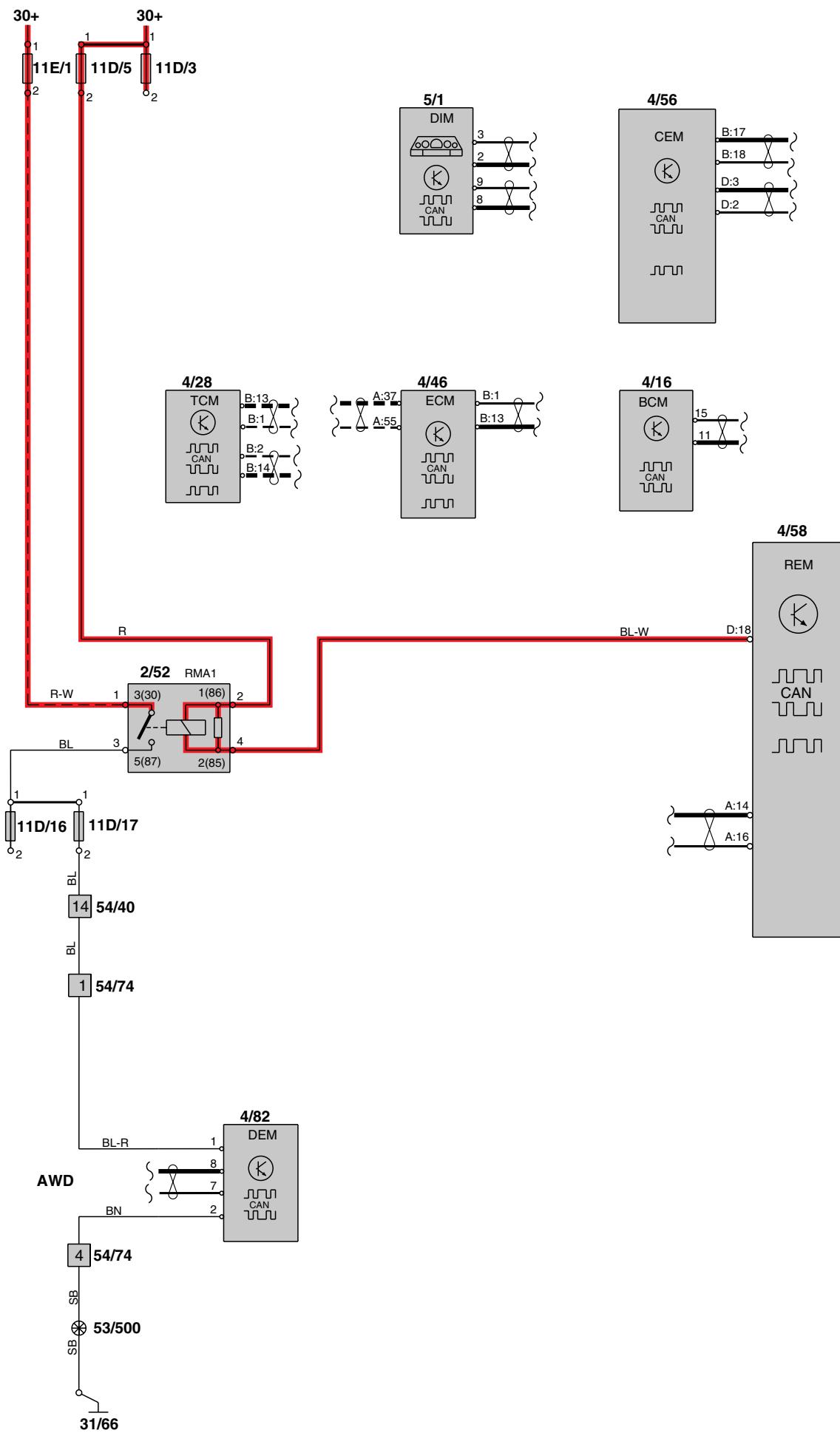




Shift lock



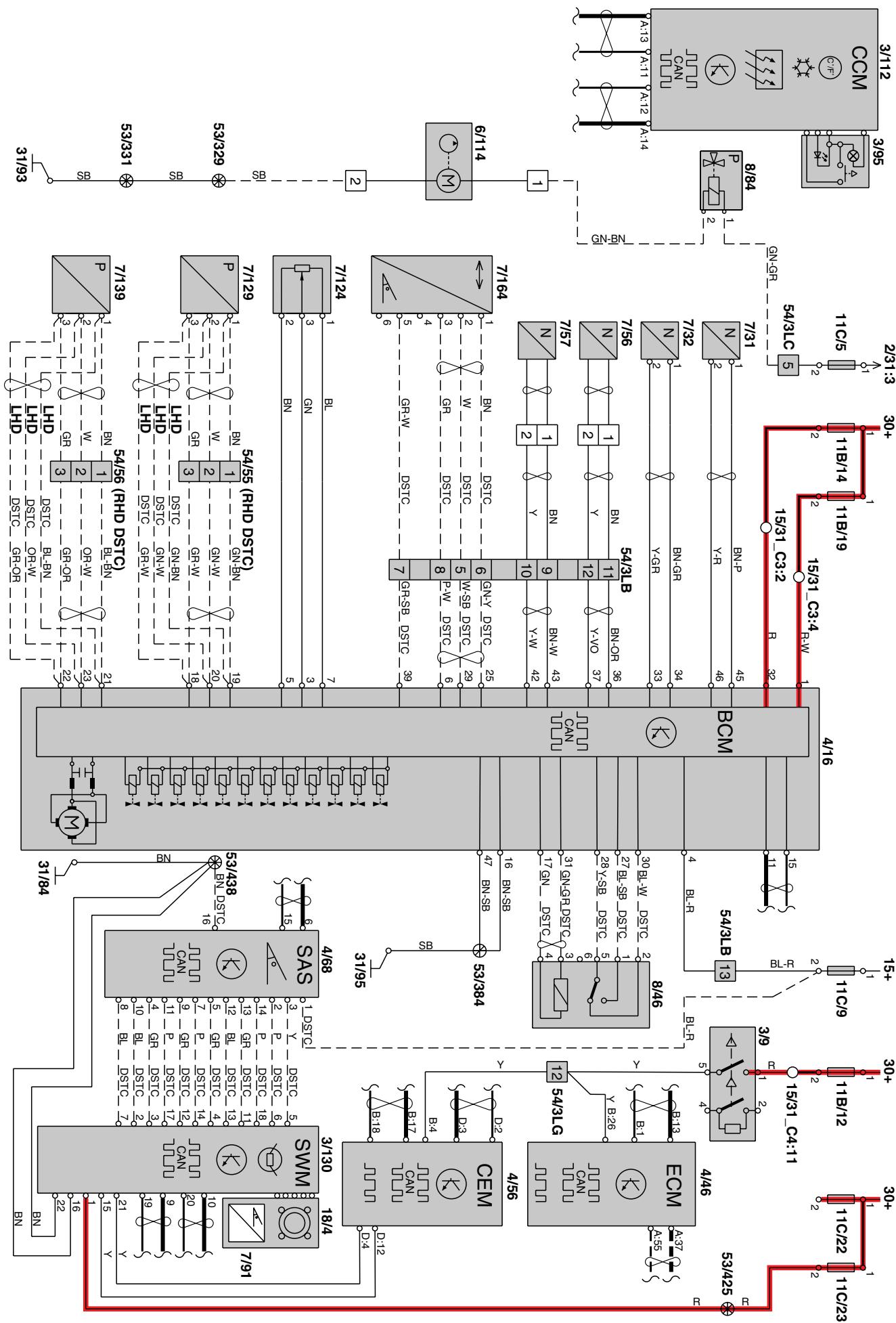
Differential Electronic Module (DEM)



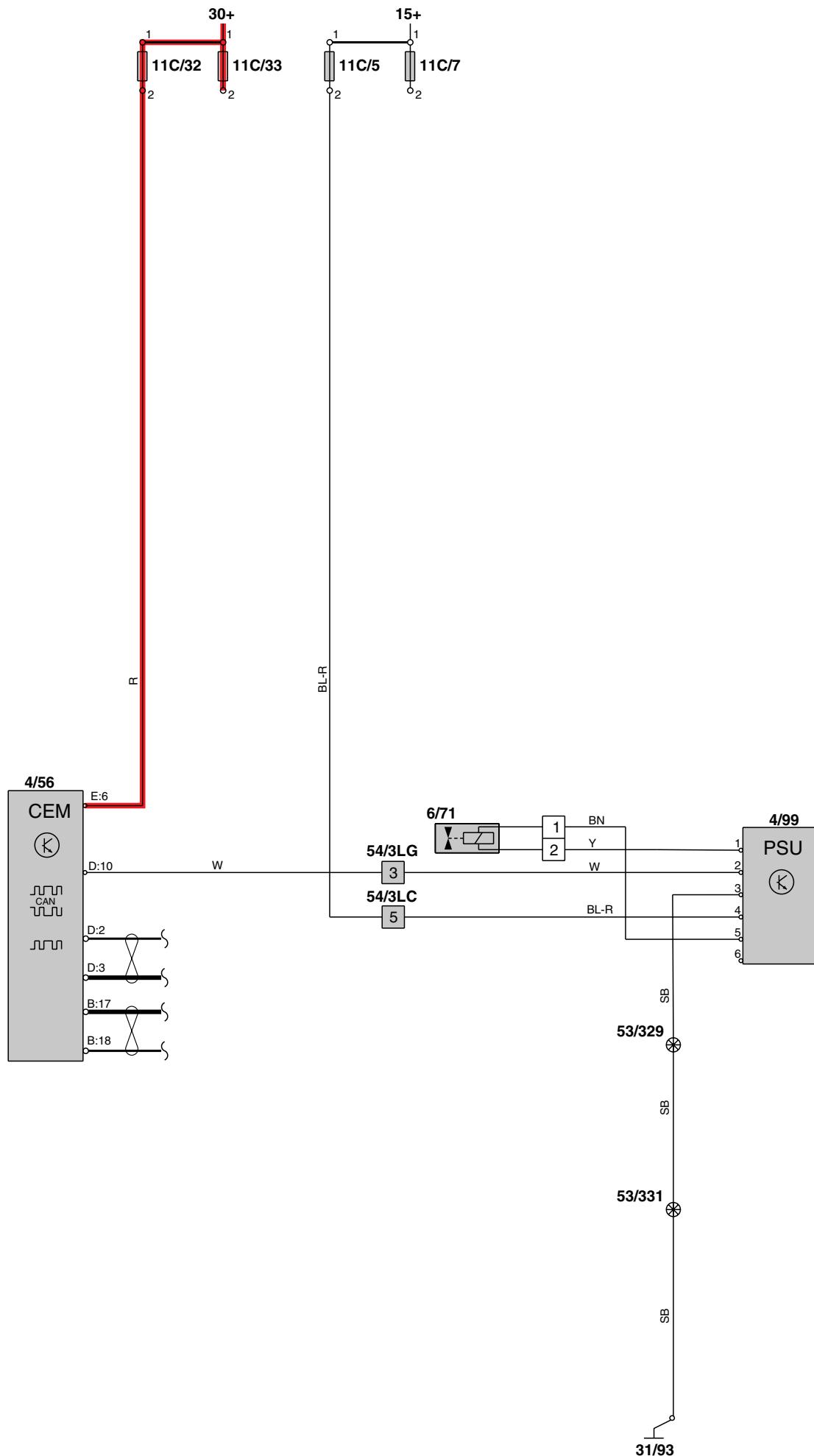
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Group 59

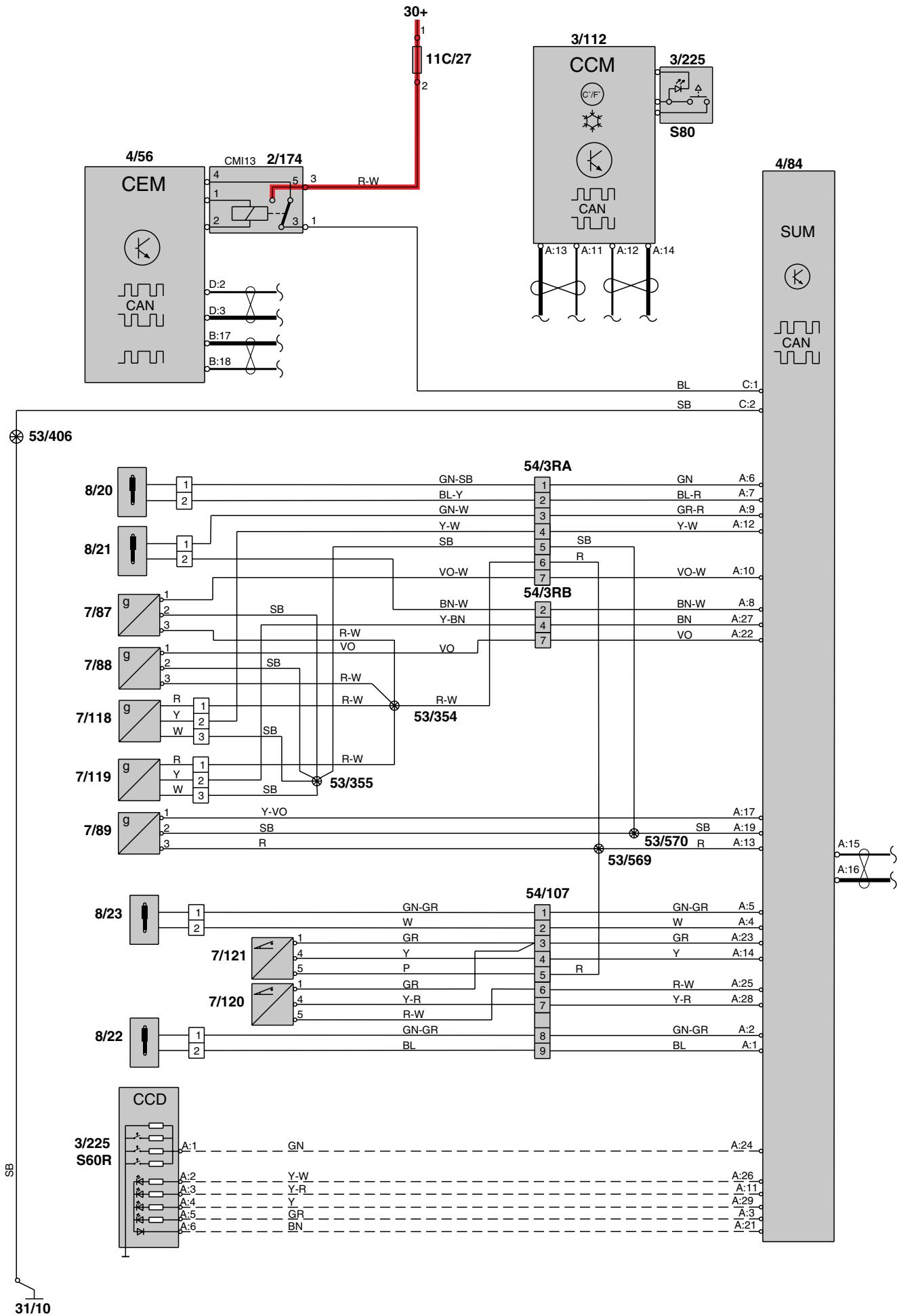
Brake Control Module (BCM)



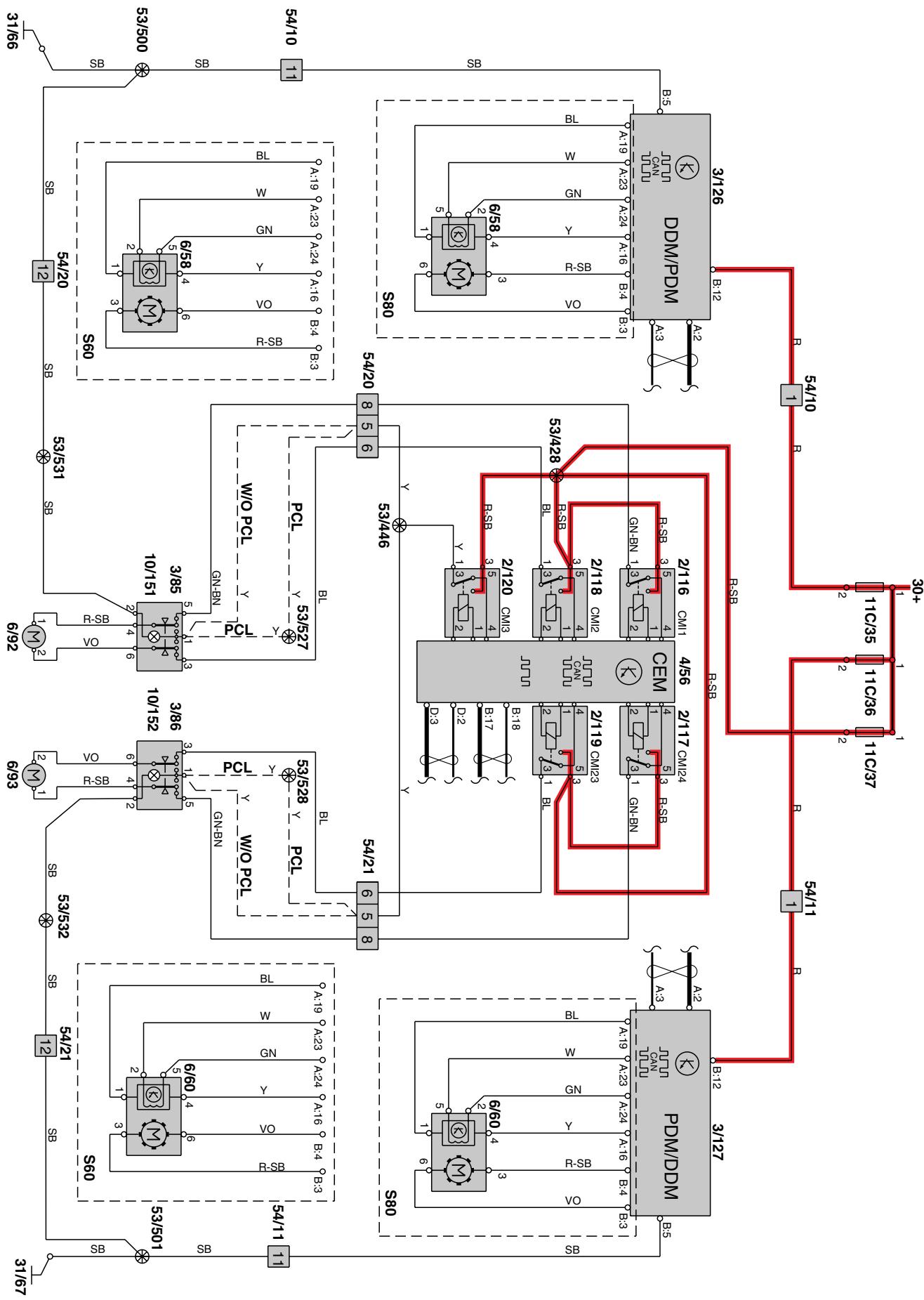
Group 64
Electronic power steering



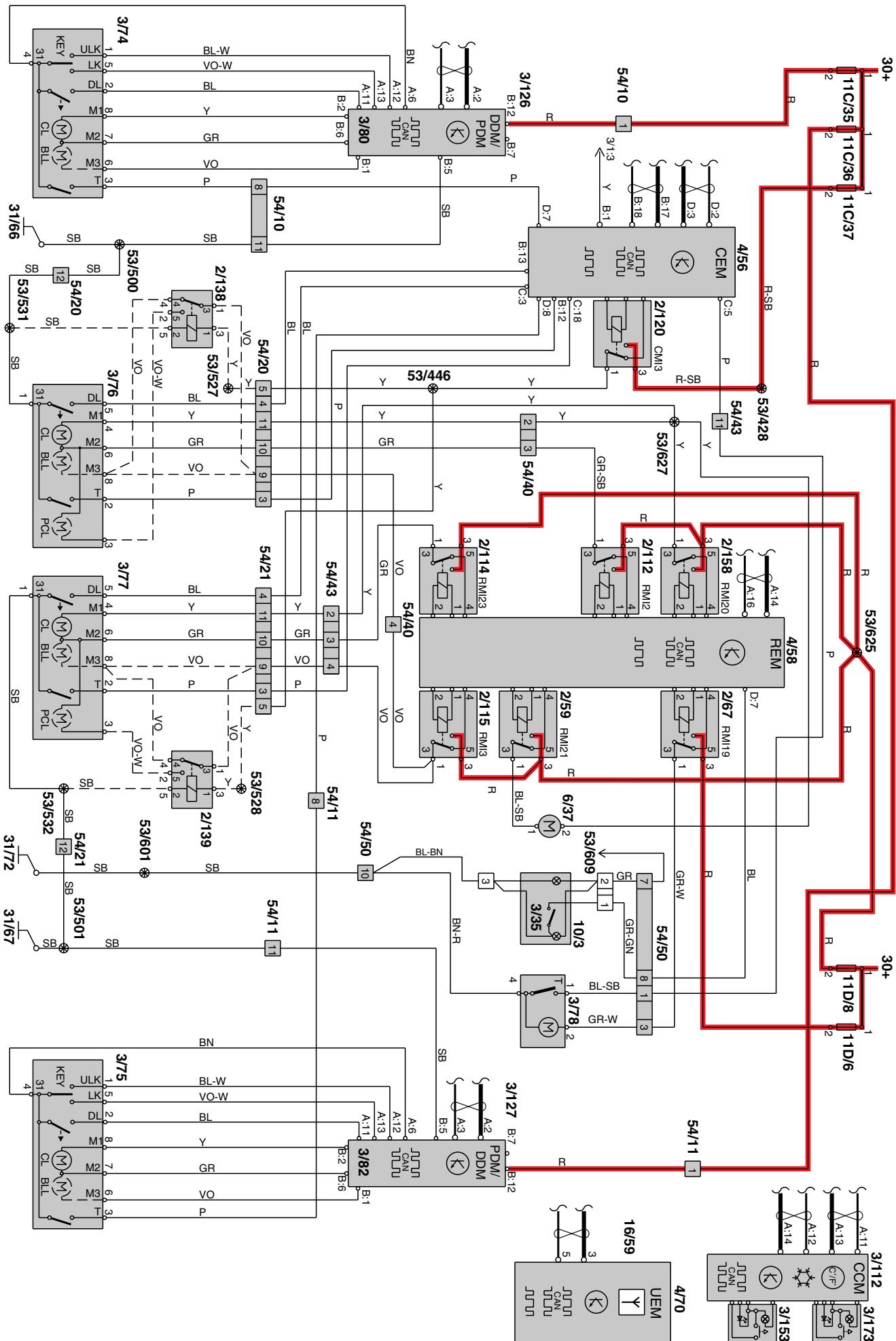
Group 76
Four-C

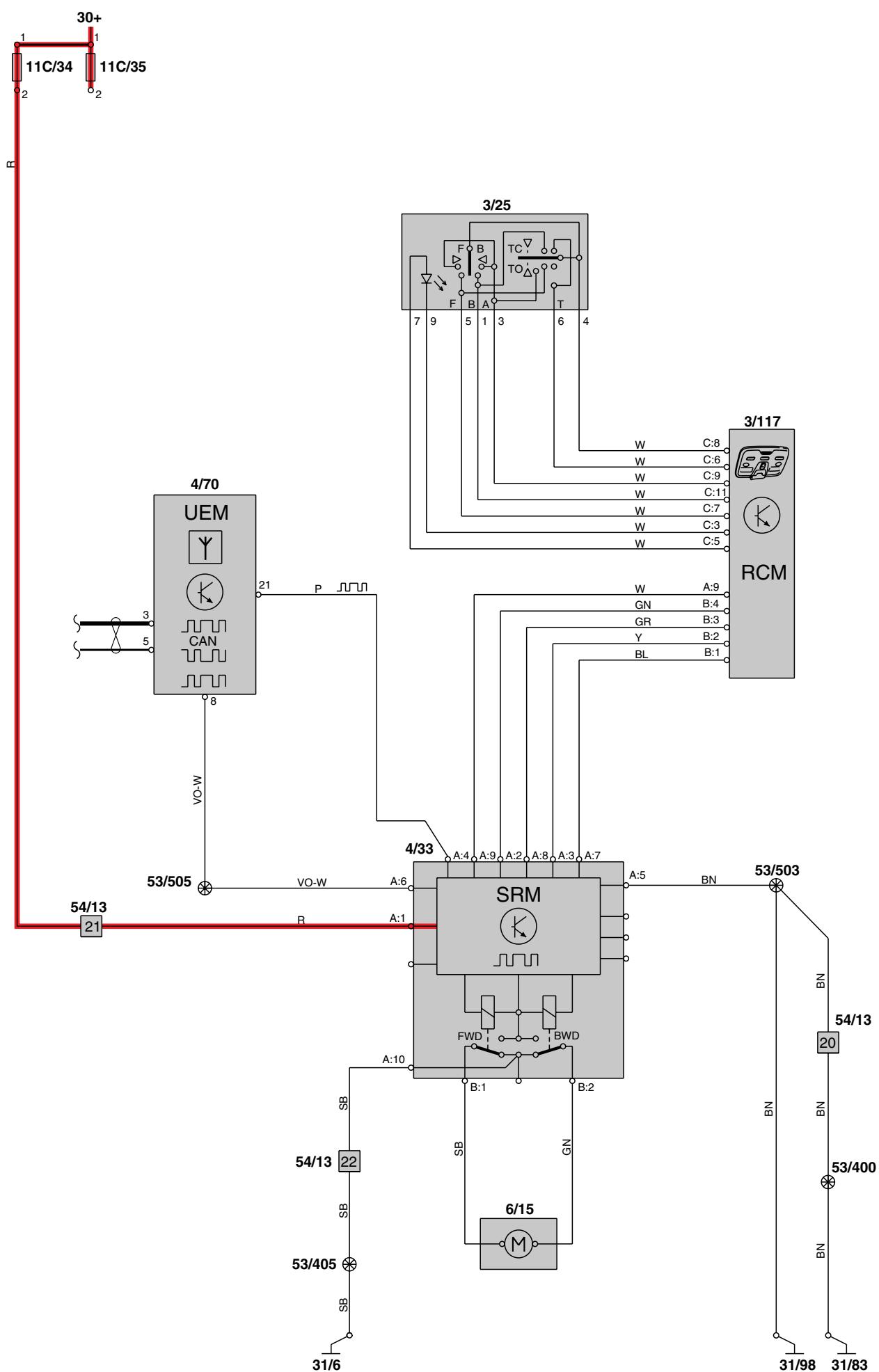


Group 83
Power windows



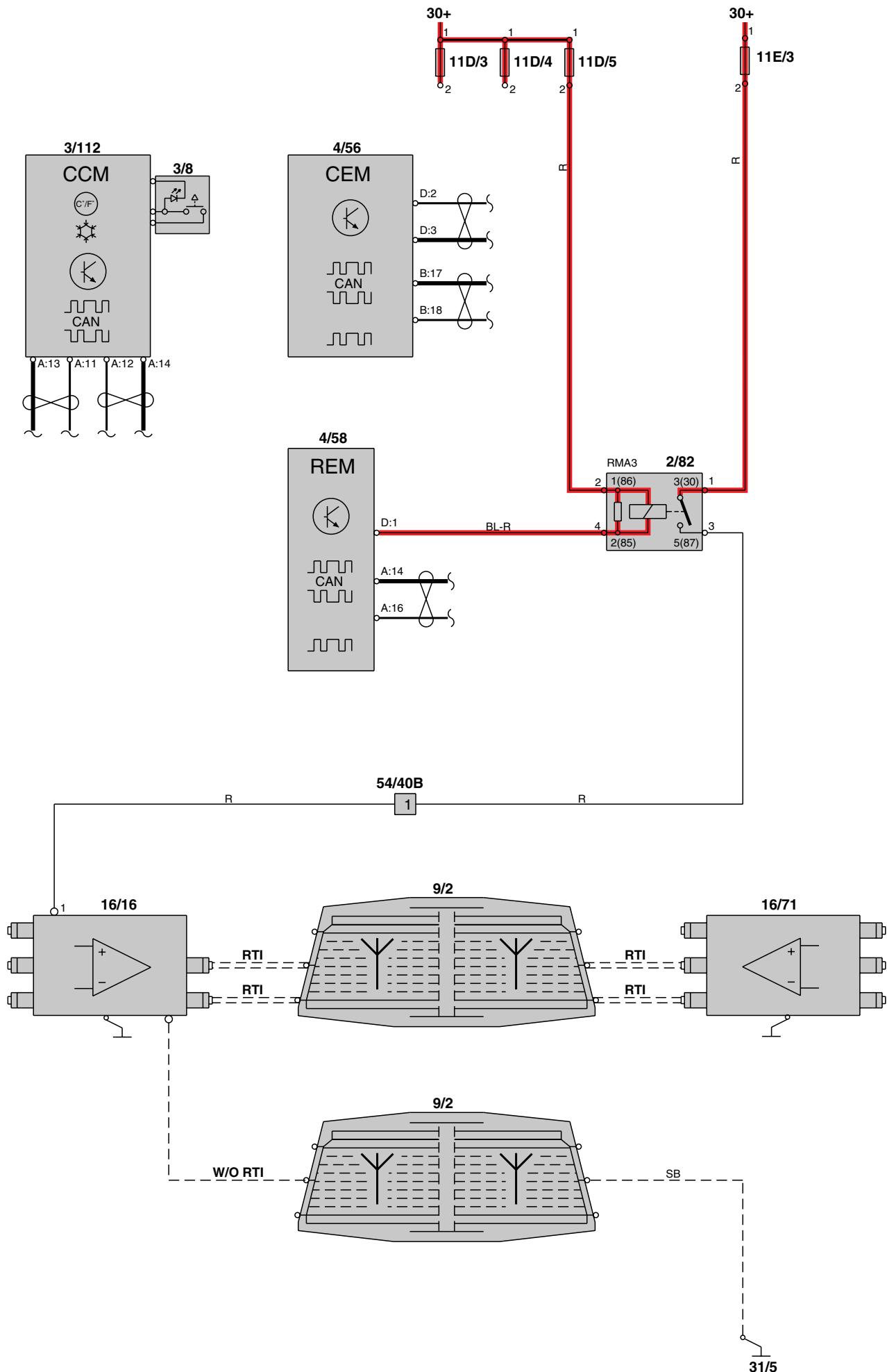
Central locking



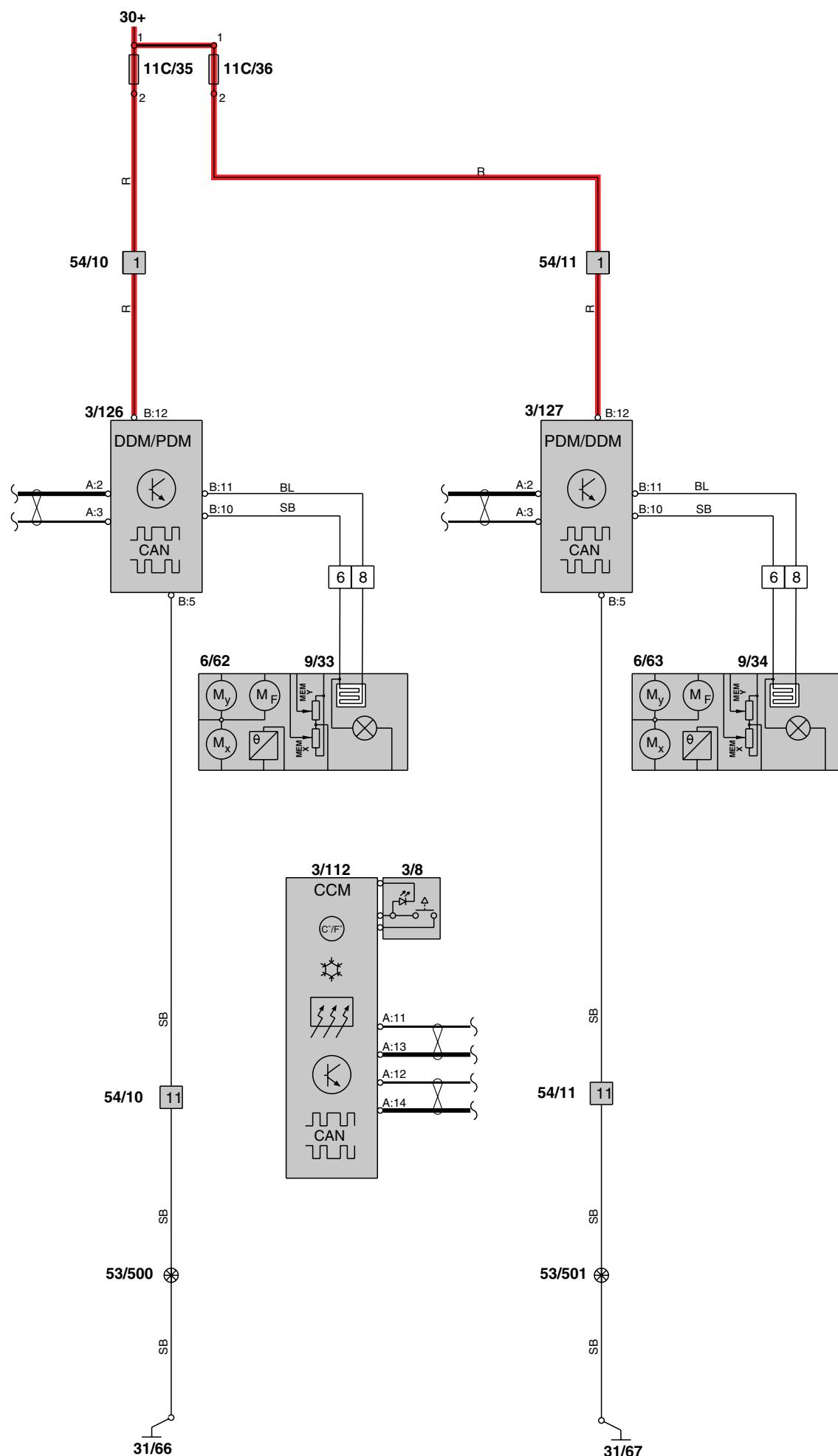


Group 84

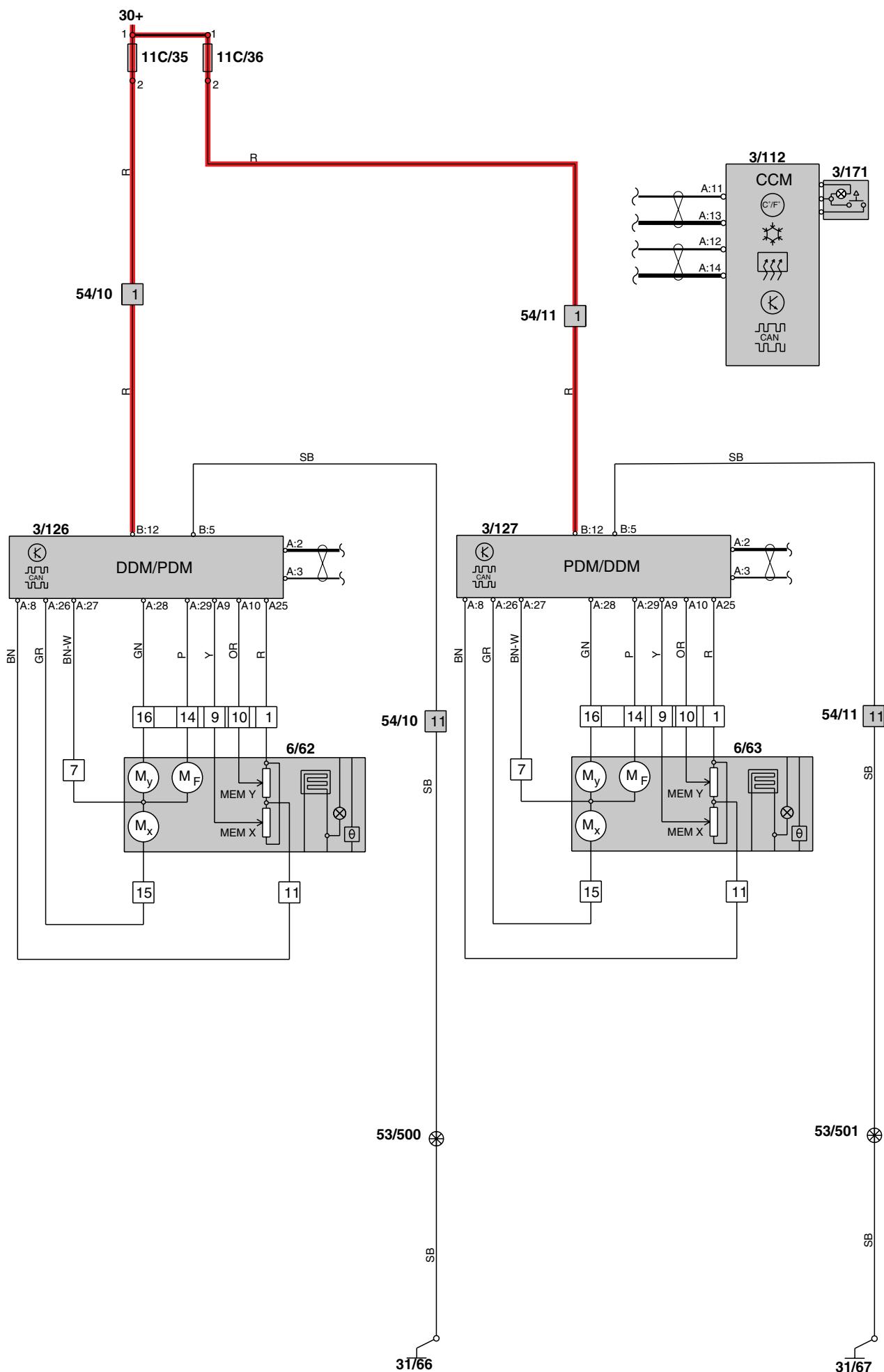
Heated rear window



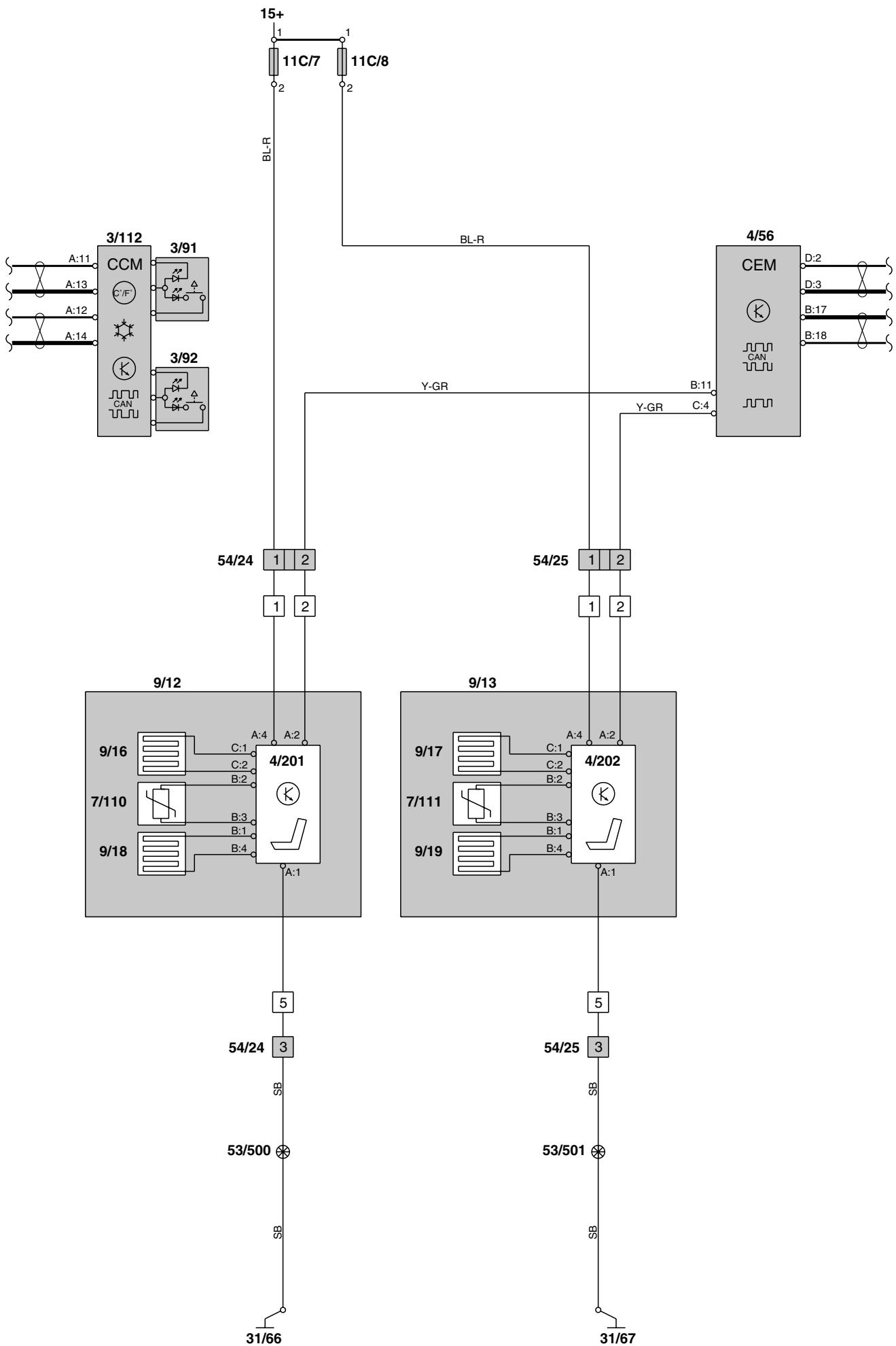
Heated door mirrors



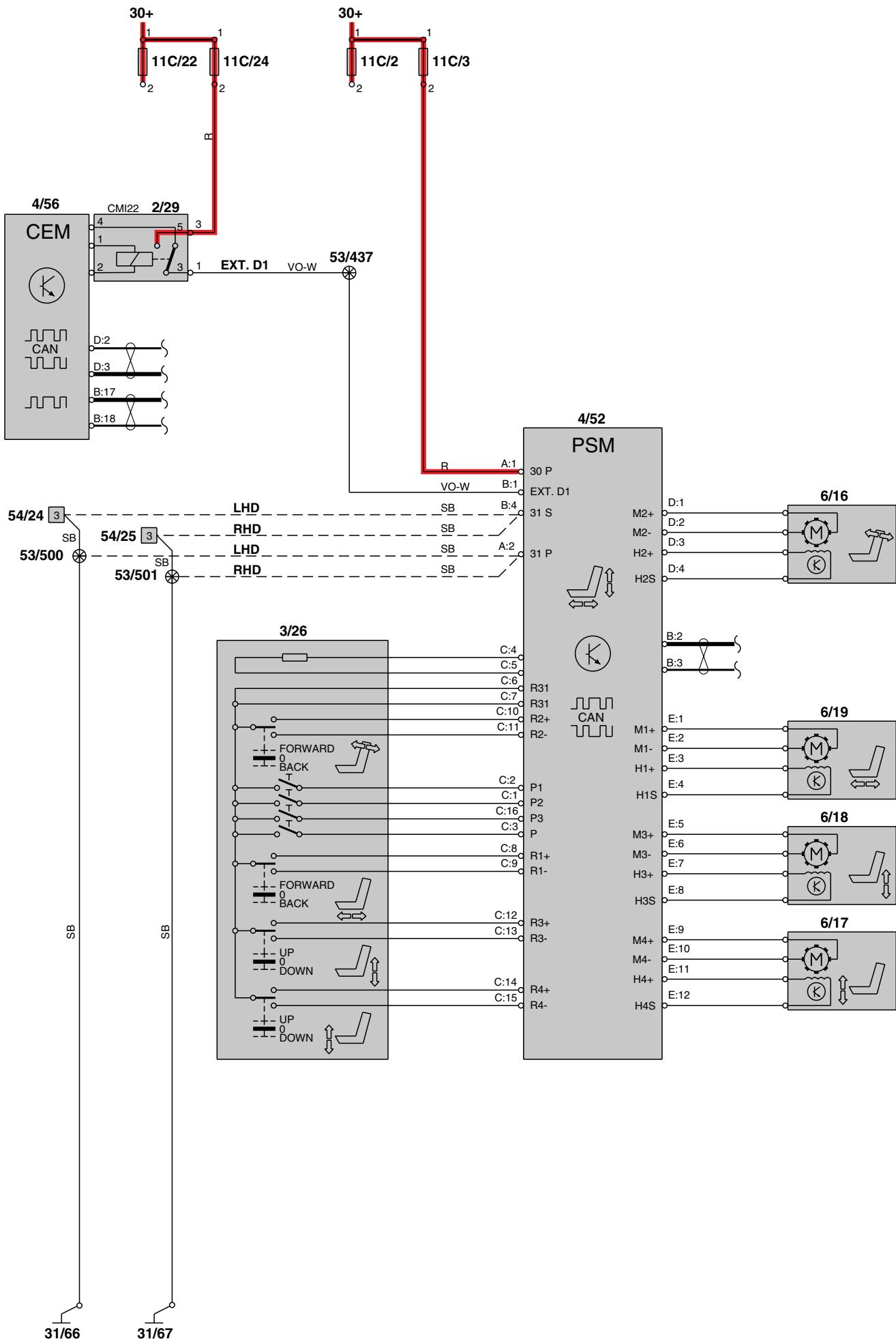
Power door mirrors



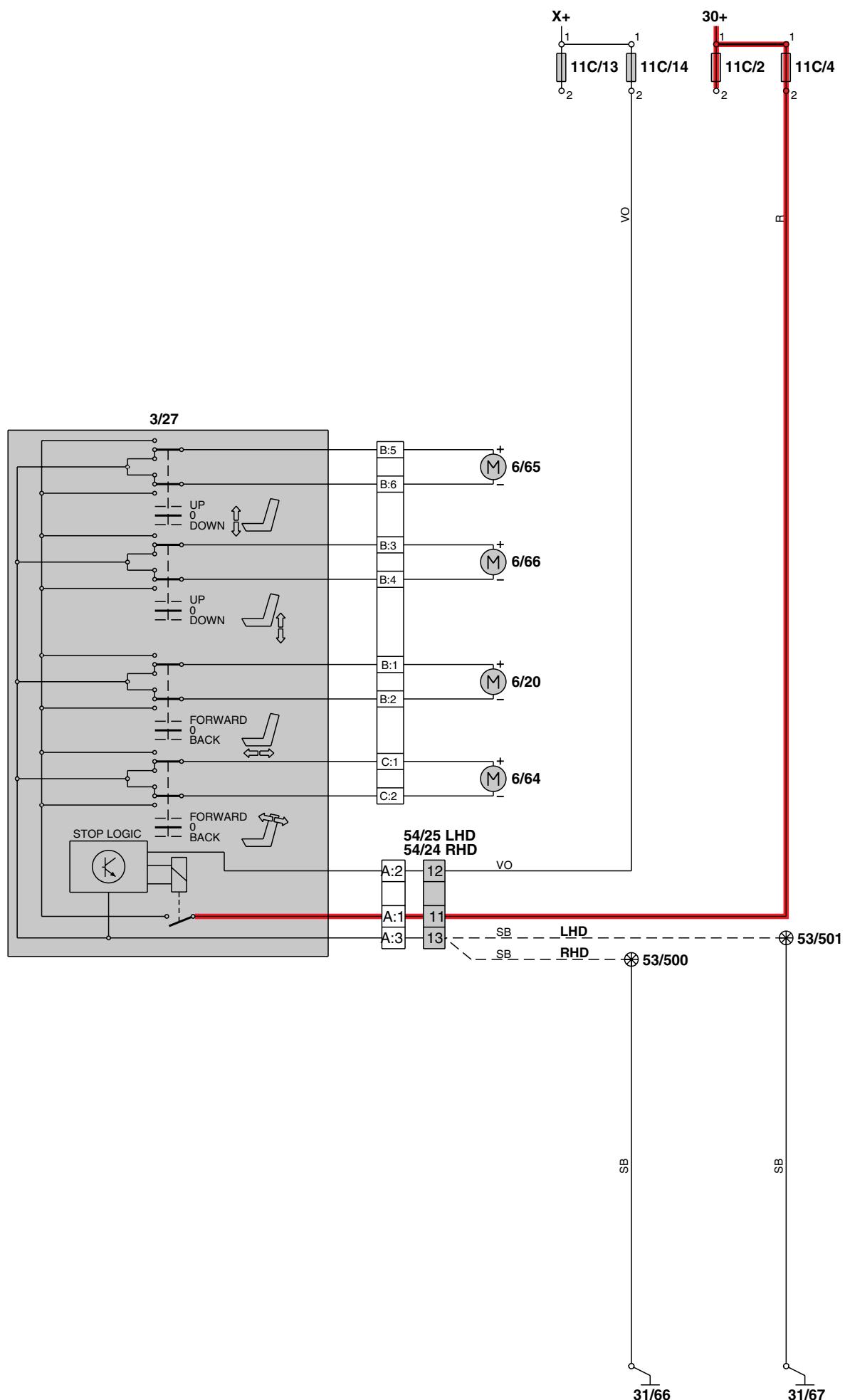
Group 85
Heated seats



Power driver's seat

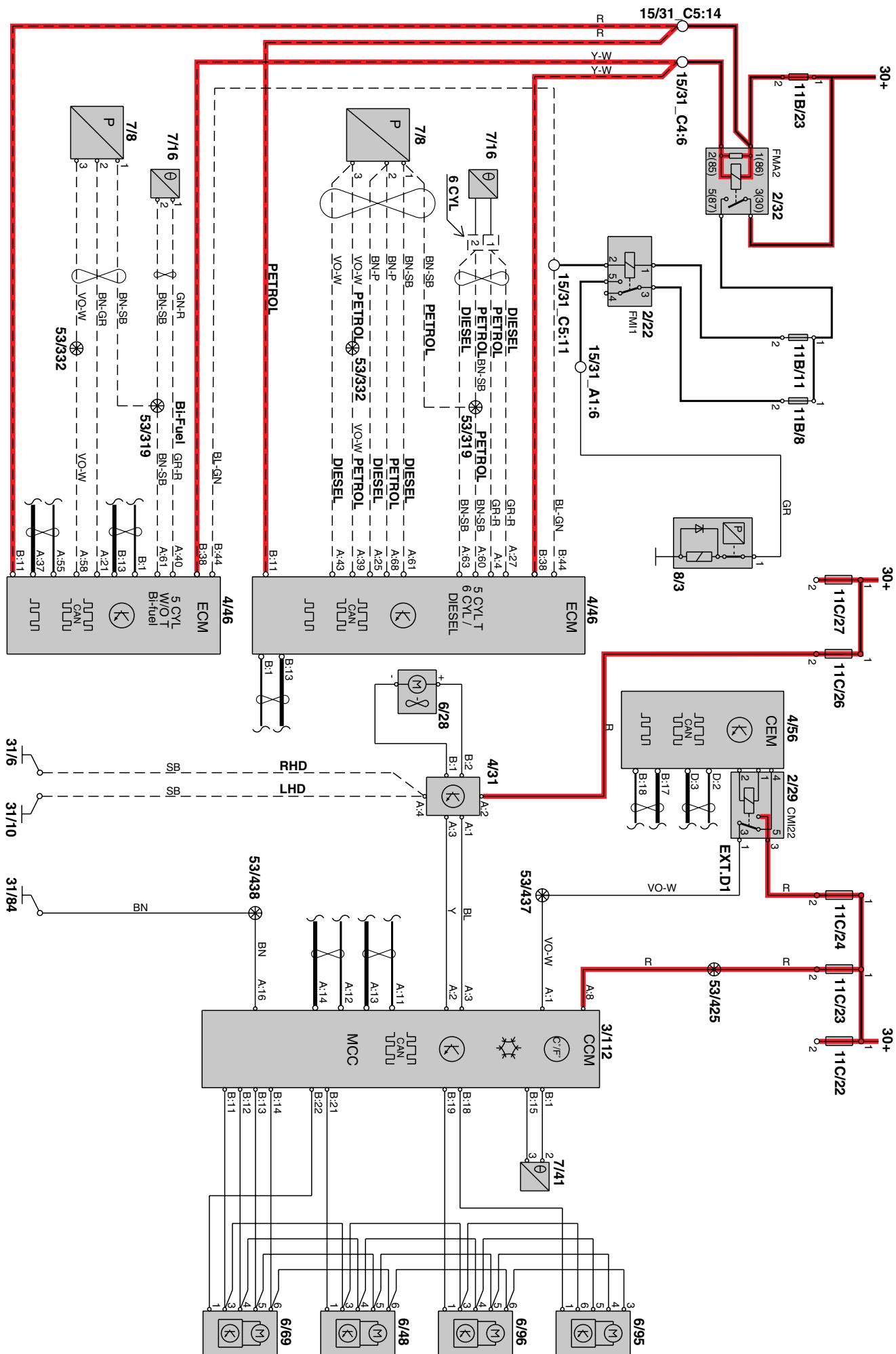


Power passenger seat

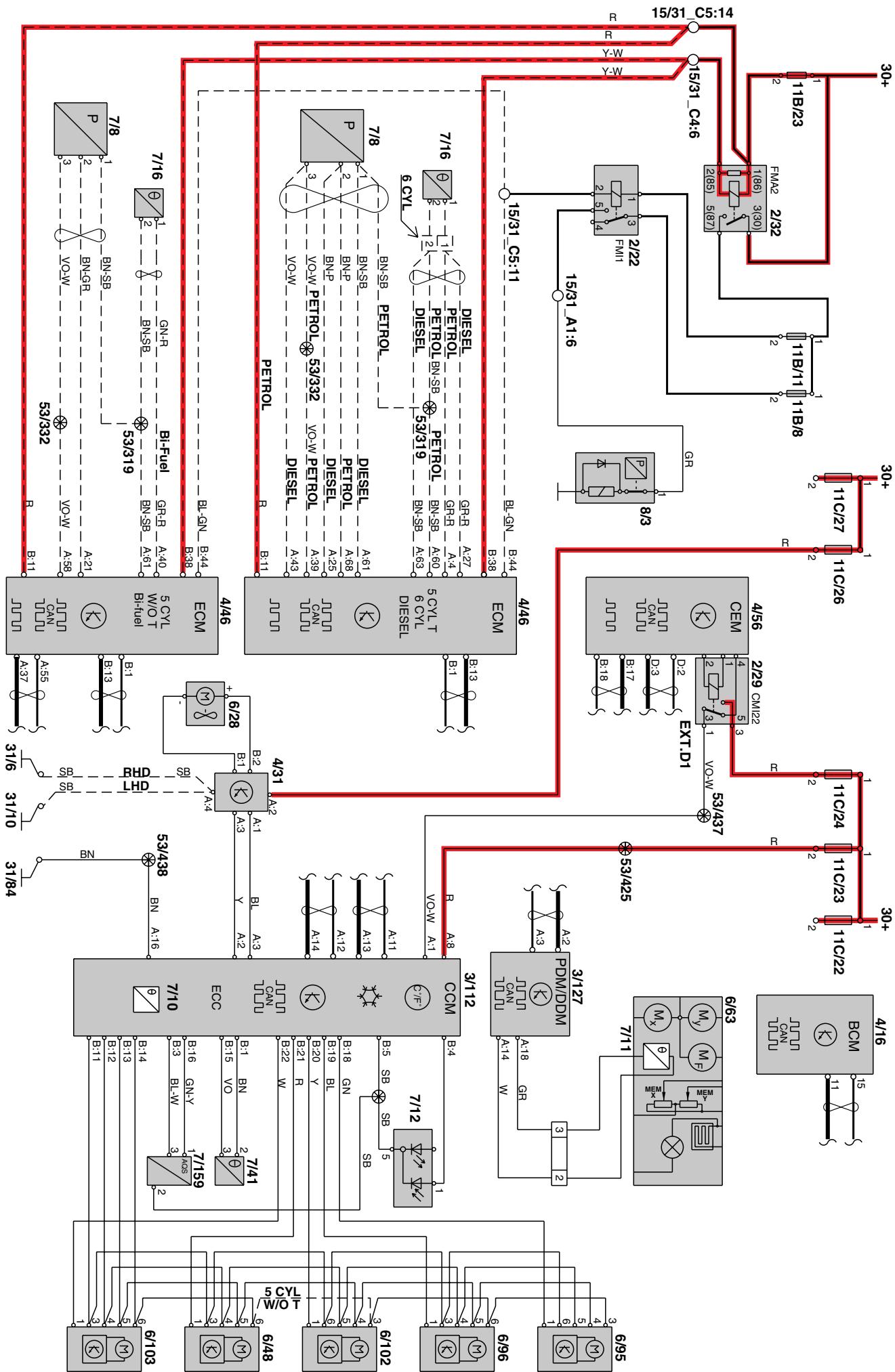


Group 87

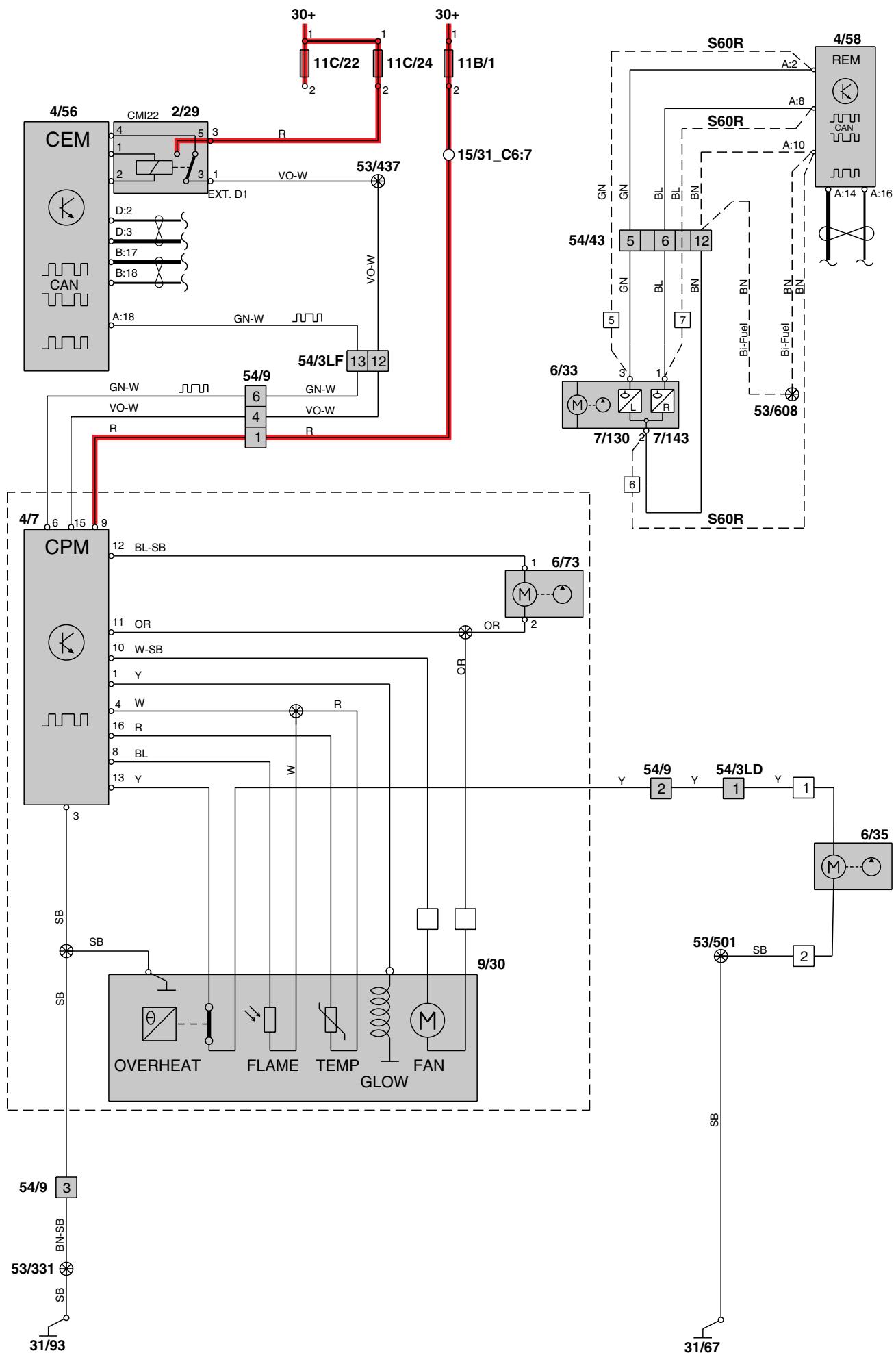
Manual Climate Control (MCC)



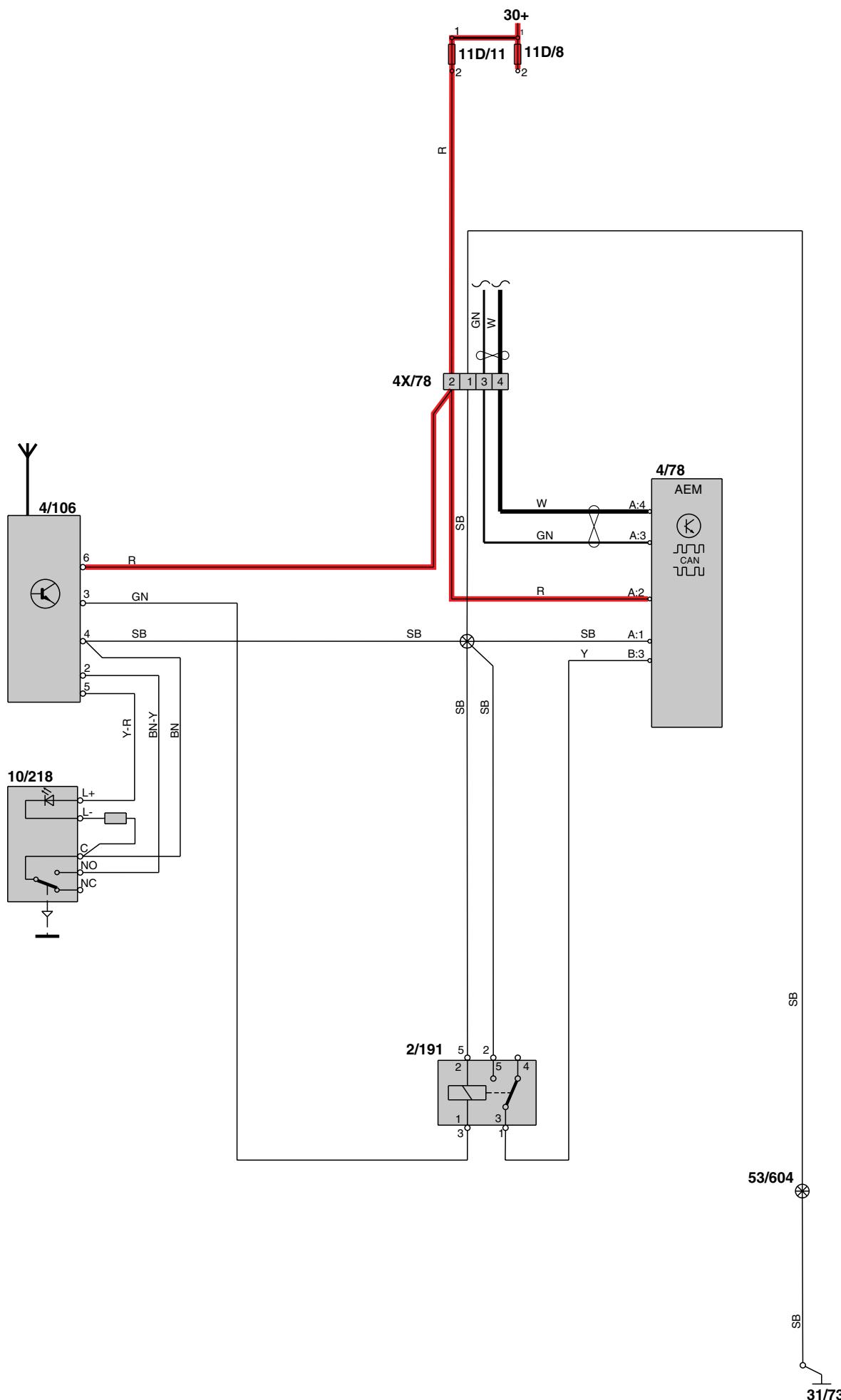
Electronic Climate Control (ECC)



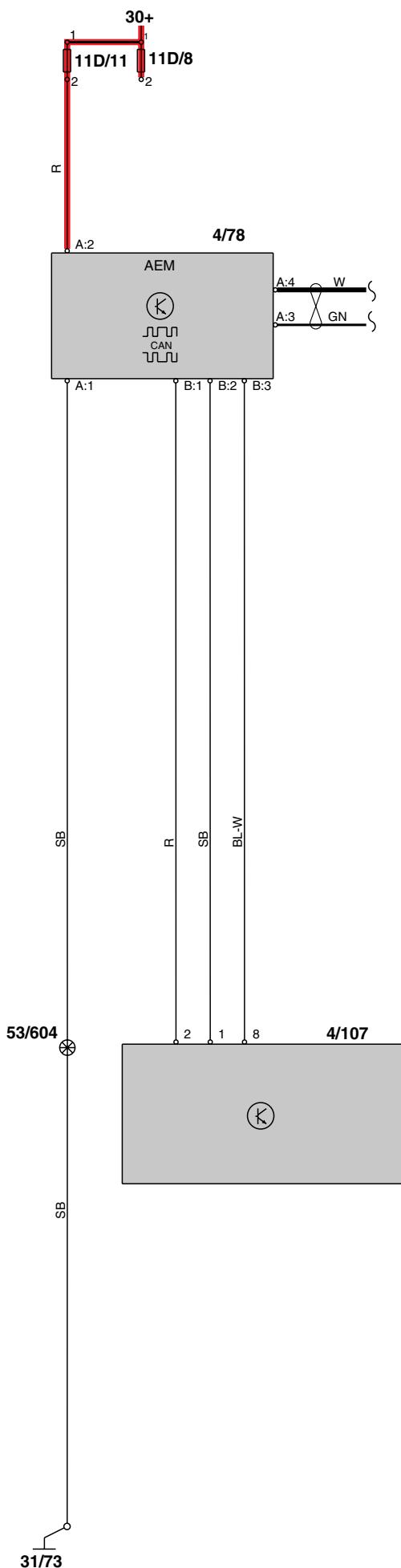
Parking heater, auxiliary heater



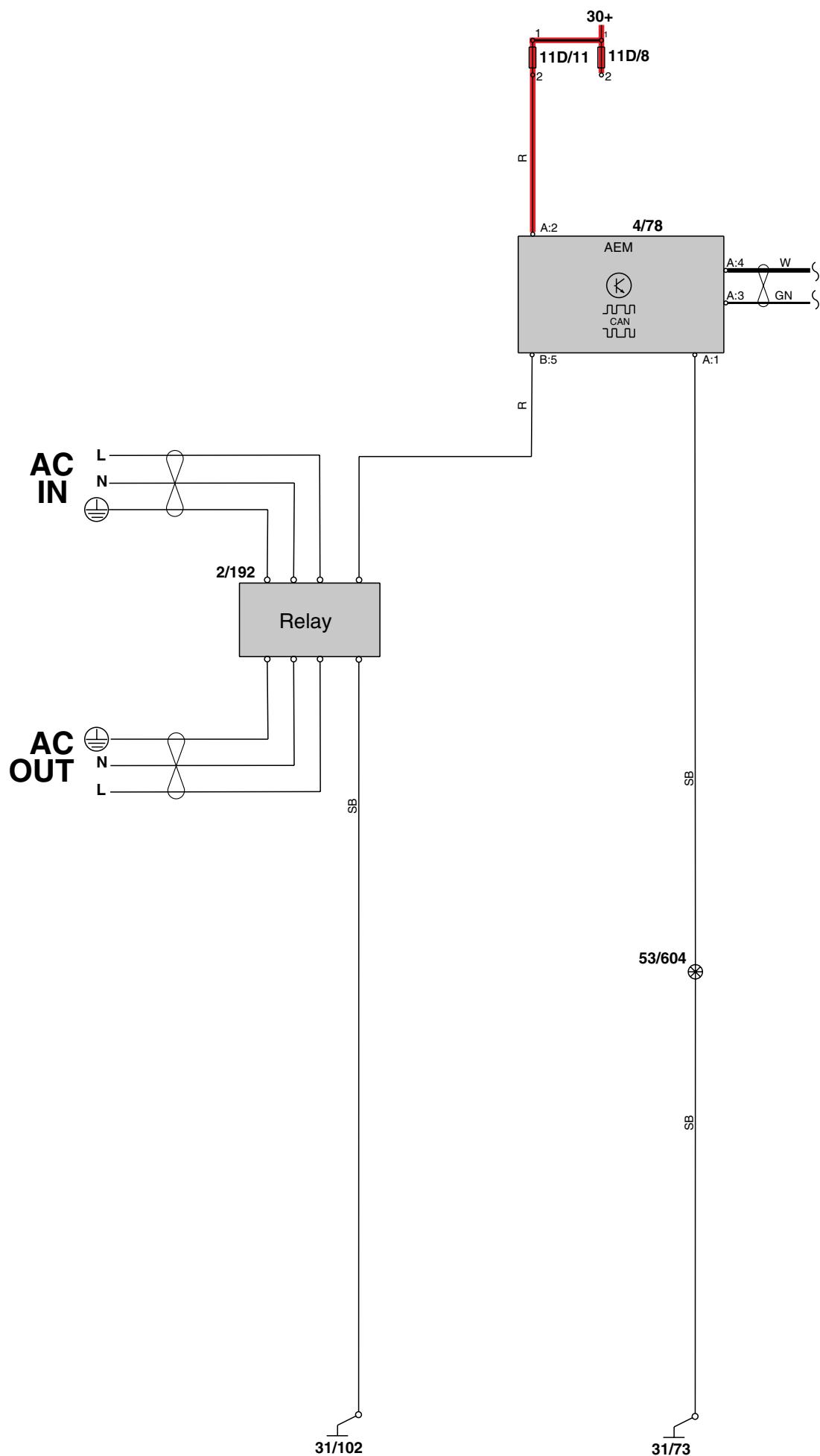
**Accessory
Parking heater, remote start**



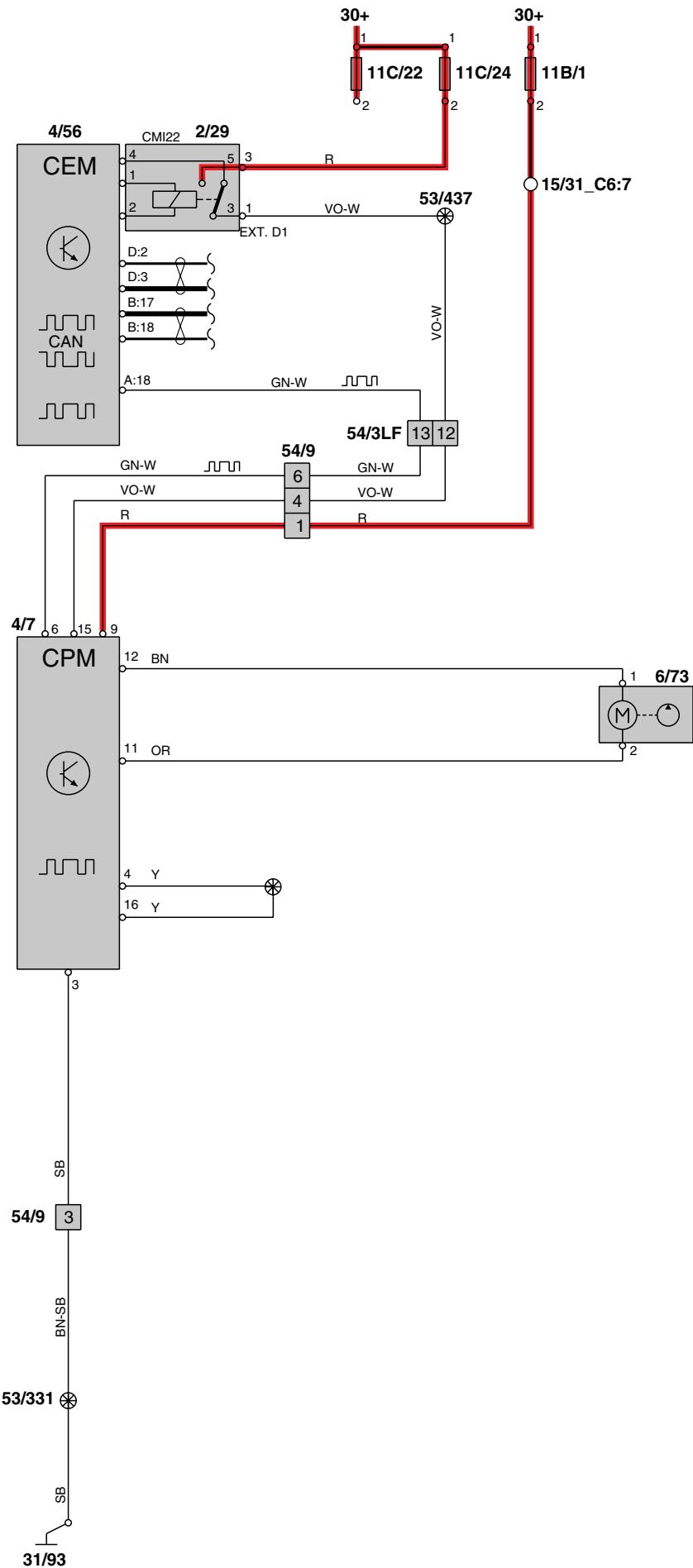
Accessory Parking heater, Call start



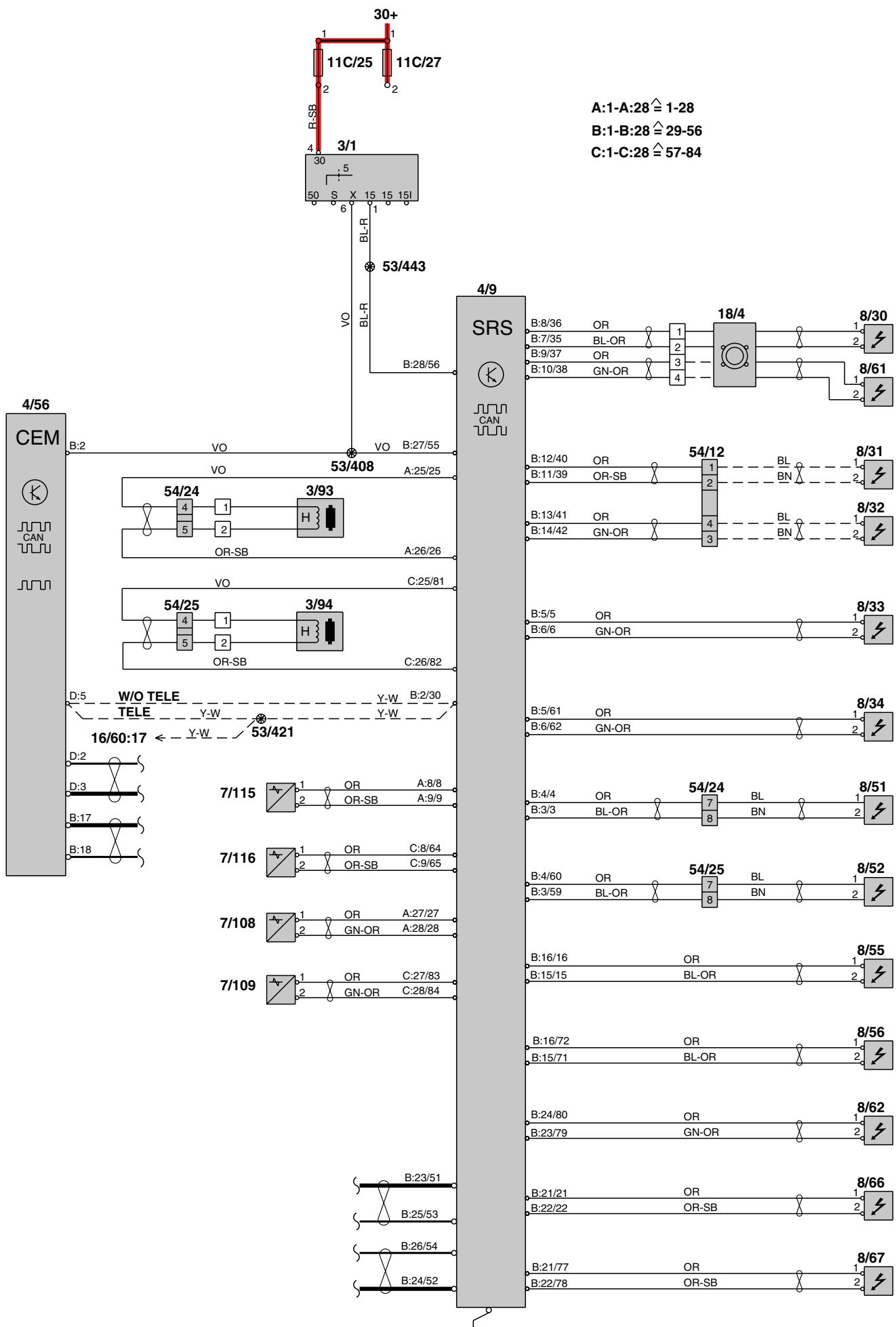
**Accessory
Relay, engine heater**



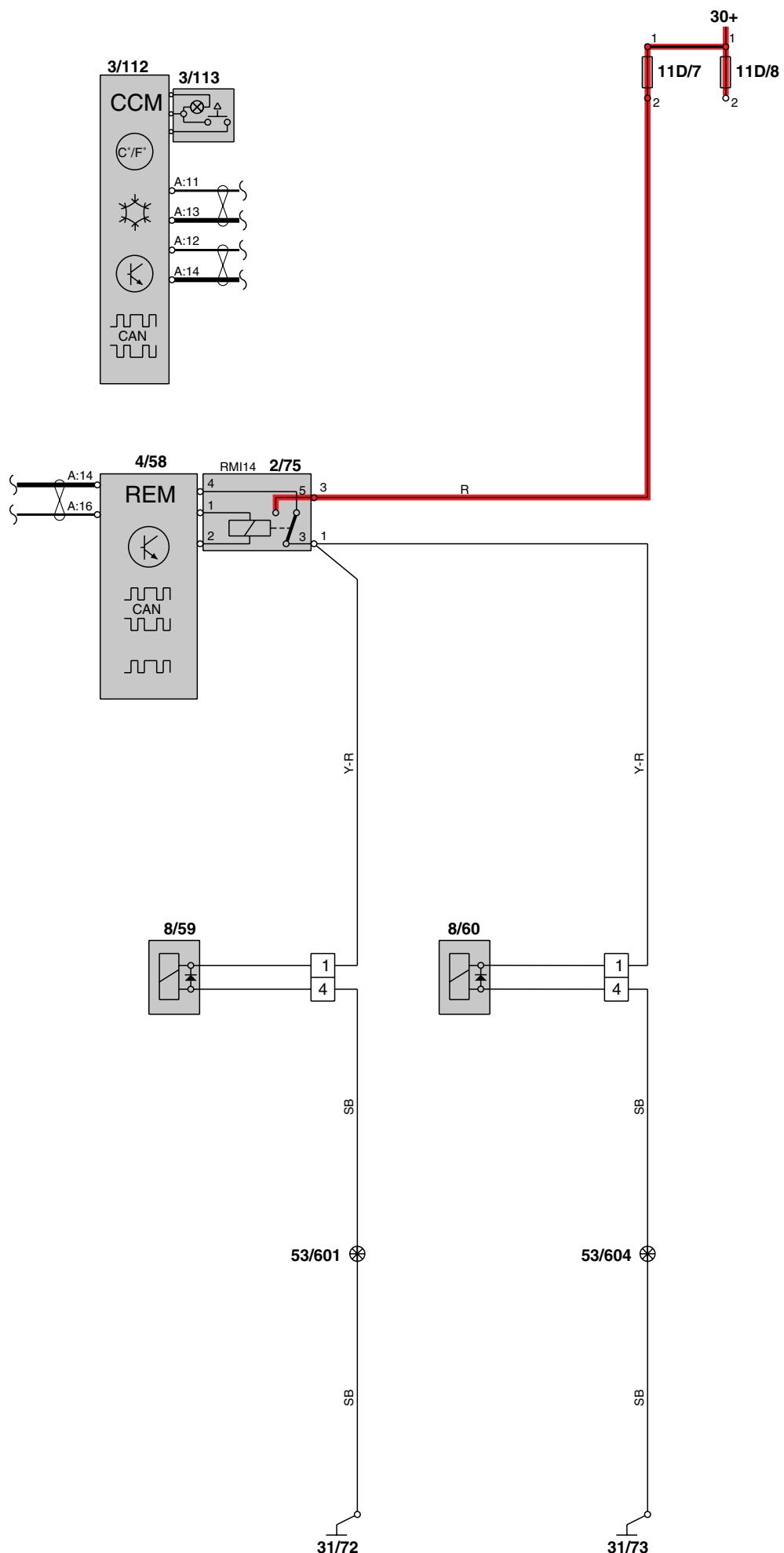
Accessory Short stop heater



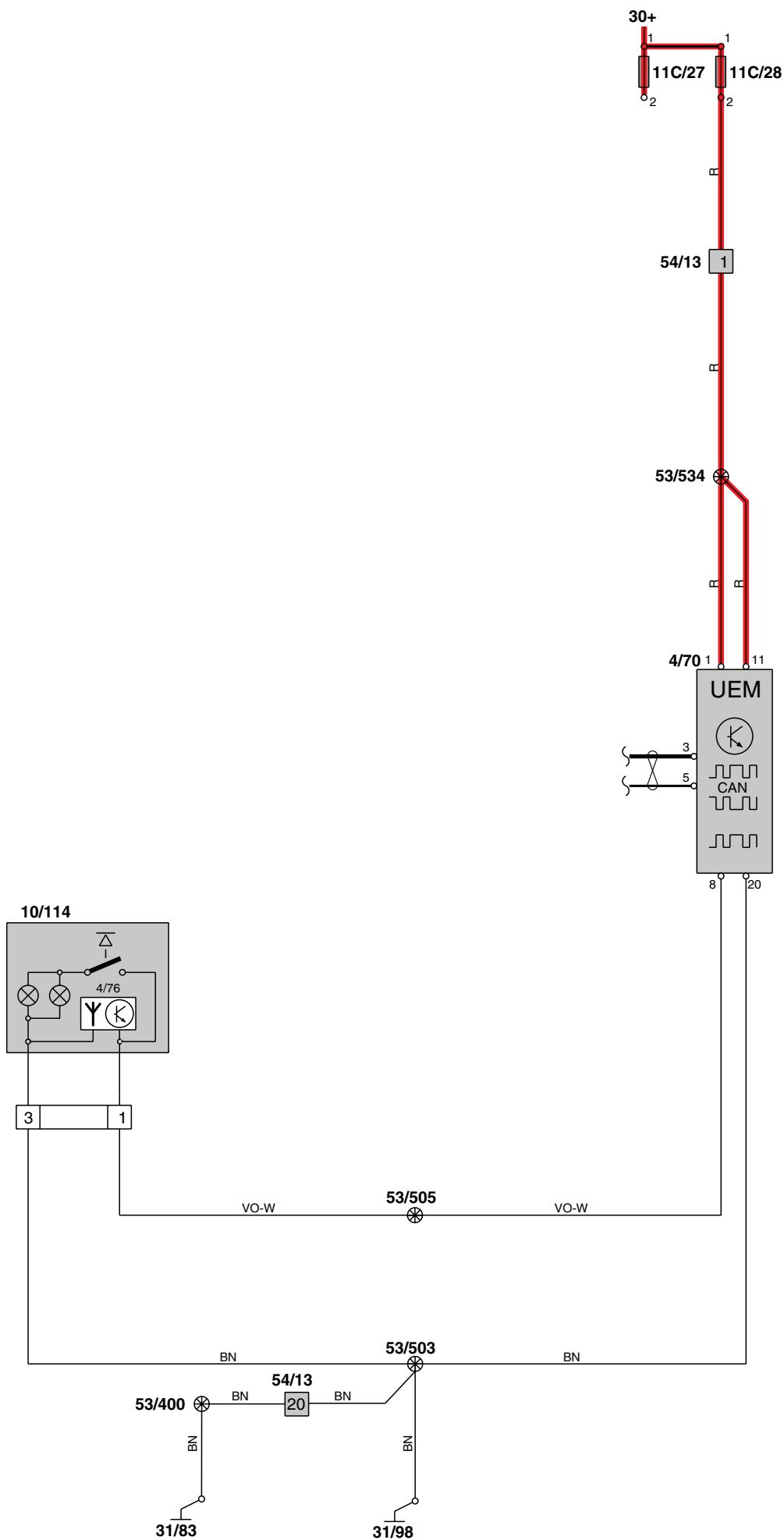
Group 88
SRS Supplemental Restraint System



Electrically adjustable head restraint



Remote controlled garage door opener



Connectors

54/1 - 54/3LB:1-7

54/1

1-pin gray

No.	Engine compartment harness		Engine harness Diesel		
1	15/31C2:2	Engine compartment distribution boxDiesel	R-W	53/374	Junction point R

53/3LA

13-pin white

No.	Passenger compartment harness		Engine compartment harness		
1	4/56A:2	Central Electronic Module CEM	GR	10/1C:1	Left front lamp housing, Bi-Xenon GR
2	4/56D:11	Central Electronic Module CEM	GN	10/2C:1	Right front lamp housing, Bi-Xenon GN
3	53/512 53/430 53/567	Junction point, AWD Four-C Junction point Junction point, 2WD Four-C	W	4/16:11	Brake Control Module (BCM) W
4	54/34:3	Connector, LHD	GN	4/46B:40	Engine Control Module (ECM) LHD GN
5	3/156A:6 8/36:6	Gear Selector Module (GSM) Shift lock solenoid	SB	4/28A:54 53/329	Transmission Control Module (TCM) Junction point, Man SB
6	6/33:6	Fuel pump	Y	4/46B:47	Engine Control Module (ECM) Y
7	4/56A:19	Central Electronic Module CEM	Y-GR	15/31C5:2	Engine compartment distribution box Y-GR
8	4/56A:3	Central Electronic Module CEM	BN-W	15/31C4:12	Engine compartment distribution box BL-OR
9	-	-	-	-	-
10	-	-	-	-	-
11	4/56A:16	Central Electronic Module CEM	BL	15/31C5:16	Engine compartment distribution box BL-R
12	4/56A:14	Central Electronic Module CEM	Y	15/31C5:15	Engine compartment distribution box Y
13	4/56A:13	Central Electronic Module CEM	GR	15/31C4:8	Engine compartment distribution box GR

54/3LB

13-pin white

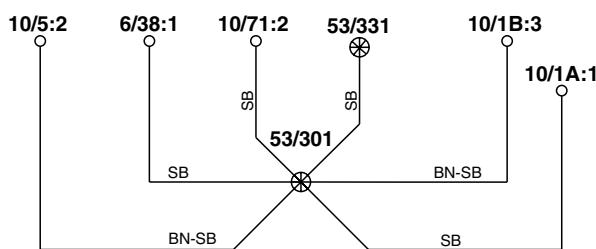
No.	Passenger compartment harness		Engine compartment harness		
1	-	-	-	-	-
2	4/56B:14	Central Electronic Module CEM	BL	4/46B:45	Engine Control Module (ECM) R-SB
3	53/431 53/513 53/568	Junction point Junction point, AWD Four-C Junction point, 2WD Four-C	GN	4/16:15	Brake Control Module (BCM) GN
4	54/34:4	Connector, LHD	BL	4/46B:7	Engine Control Module (ECM) LHD BL-SB
5	7/164:2	Sensor module DSTC/pressure sensor	W	4/16:29	Brake Control Module (BCM) W-SB
6	7/164:1	Sensor module DSTC/pressure sensor	BN	4/16:25	Brake Control Module (BCM) GN-Y
7	7/164:5	Sensor module DSTC/pressure sensor	GR-W	4/16:39	Brake Control Module (BCM) GR-SB

continues

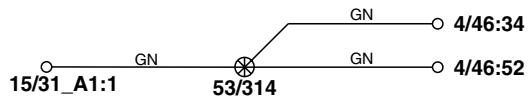
Junction points

53/301 - 53/324

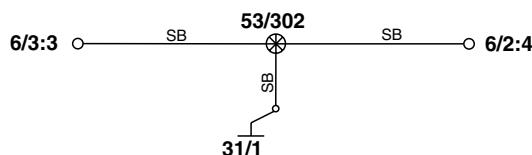
53/301



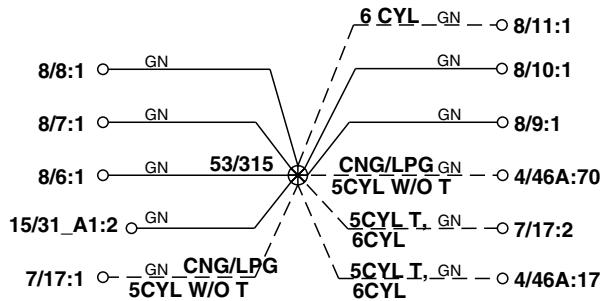
**53/314
5CYL W/O T**



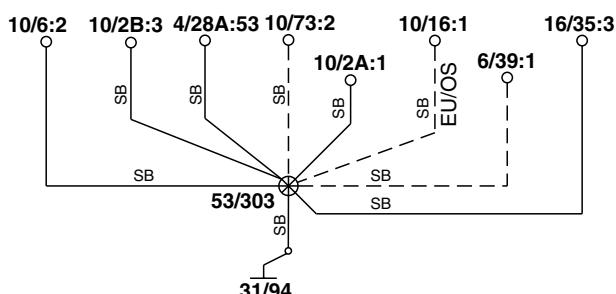
53/302



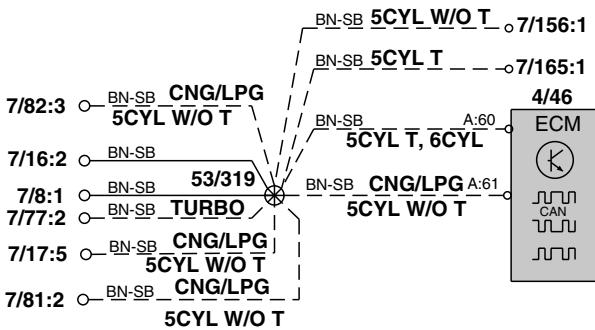
53/315



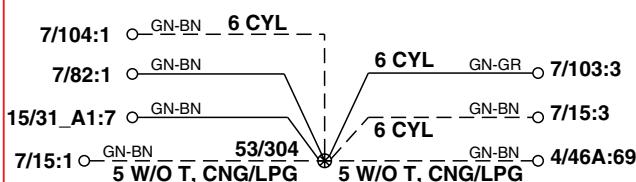
53/303



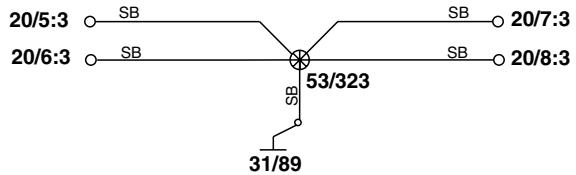
53/319



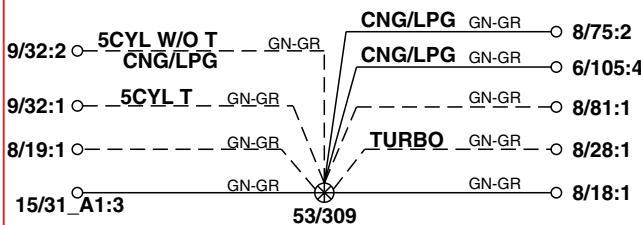
53/304



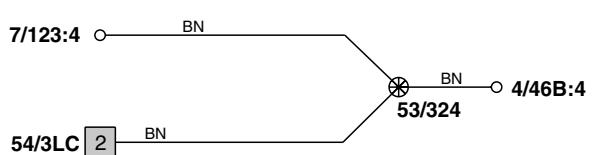
**53/323
6 CYL**



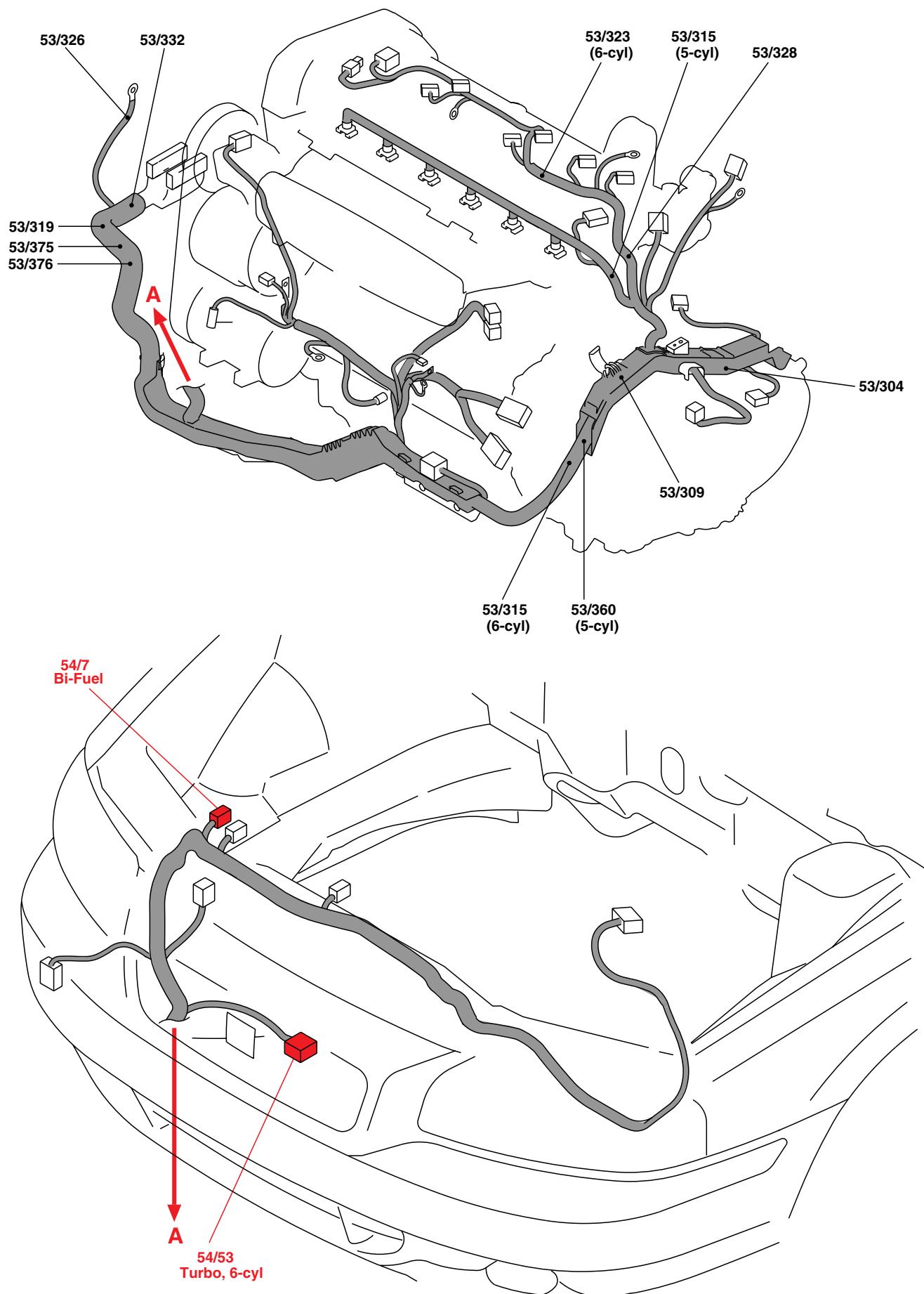
53/309



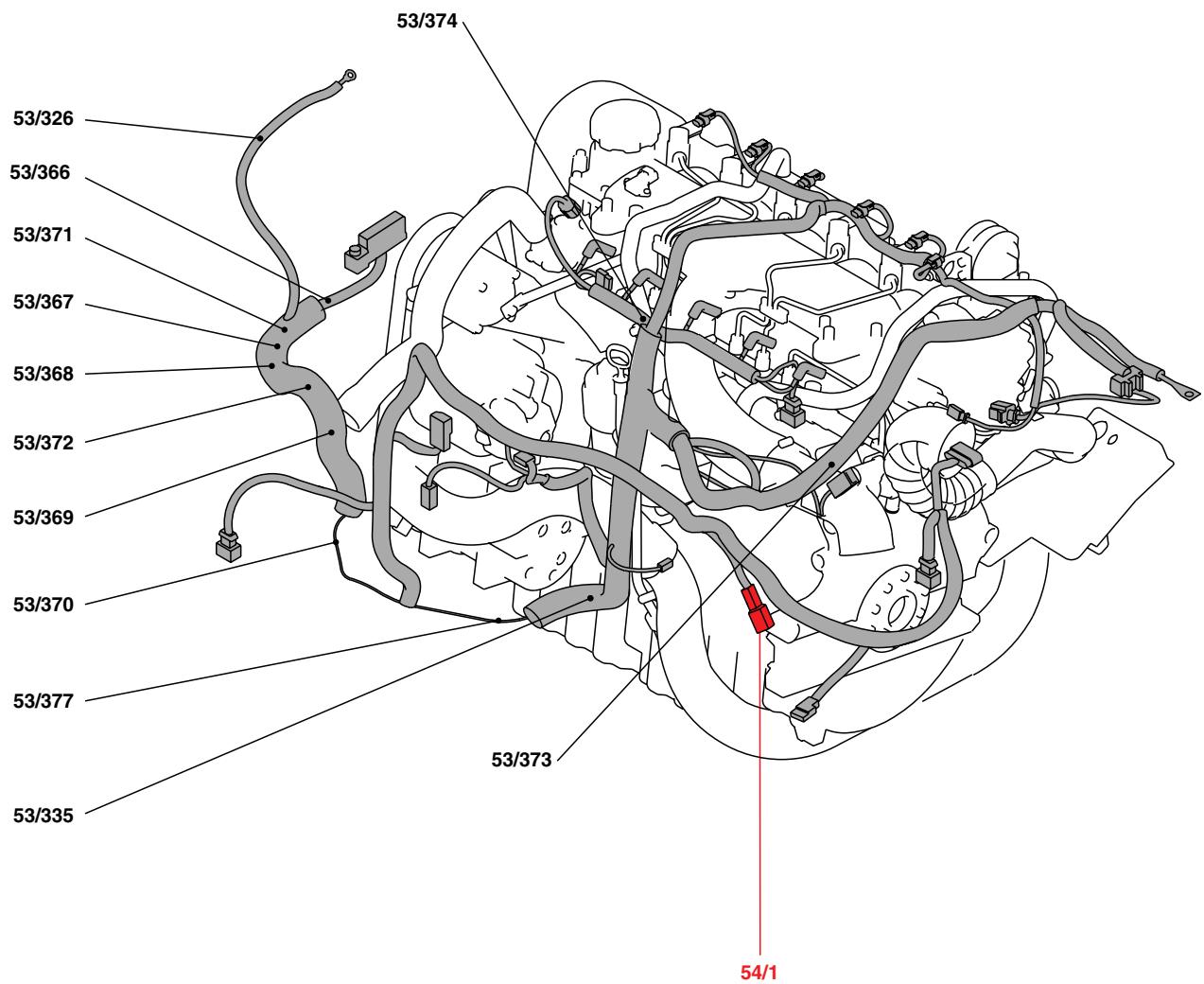
**53/324
MAN-Petrol**



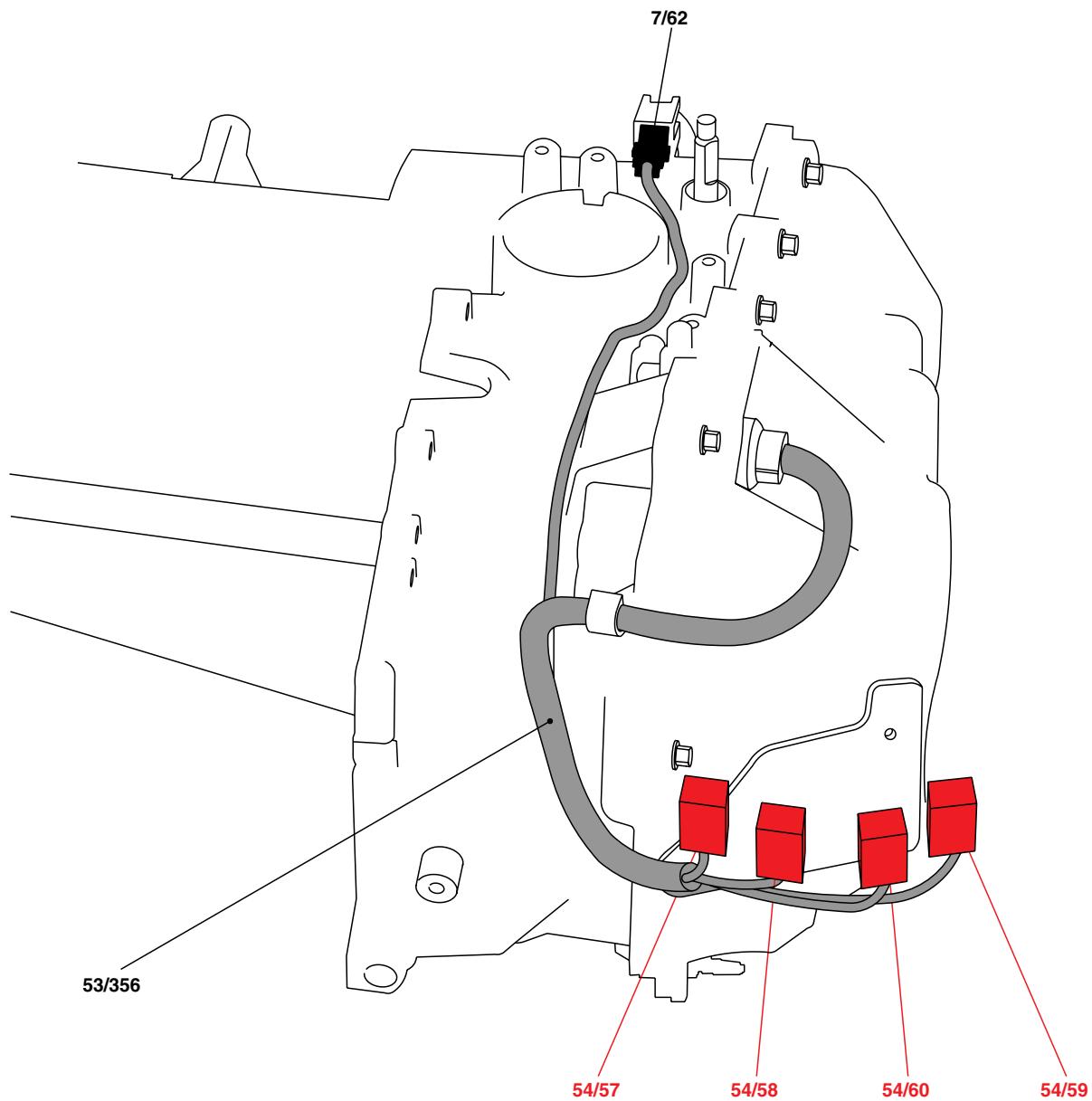
Cable harness routing in vehicle Engine harness Gasoline



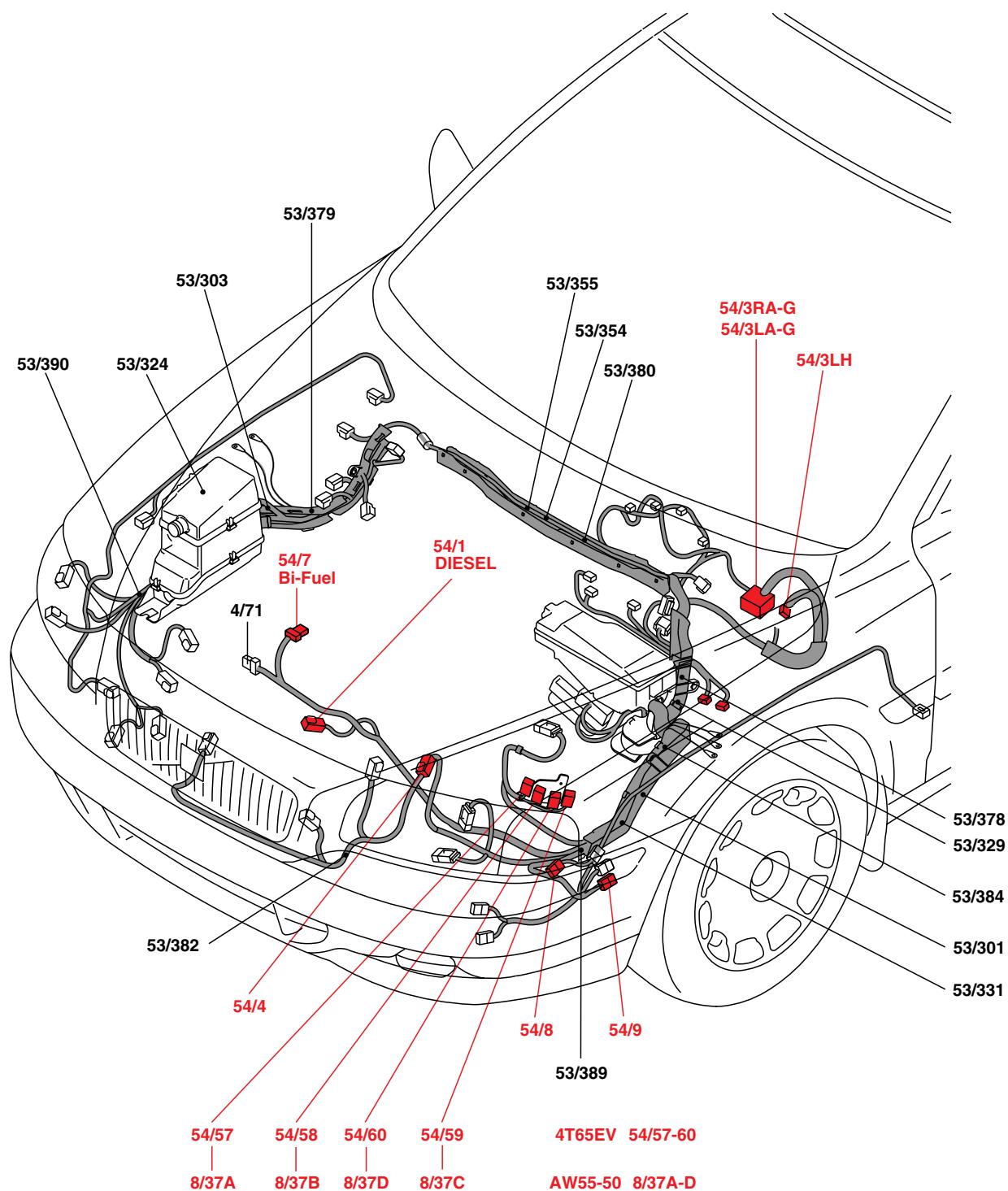
**Cable harness routing in vehicle
Engine harness Diesel**



**Cable harness routing in vehicle
Transmission harness 4T65EV**

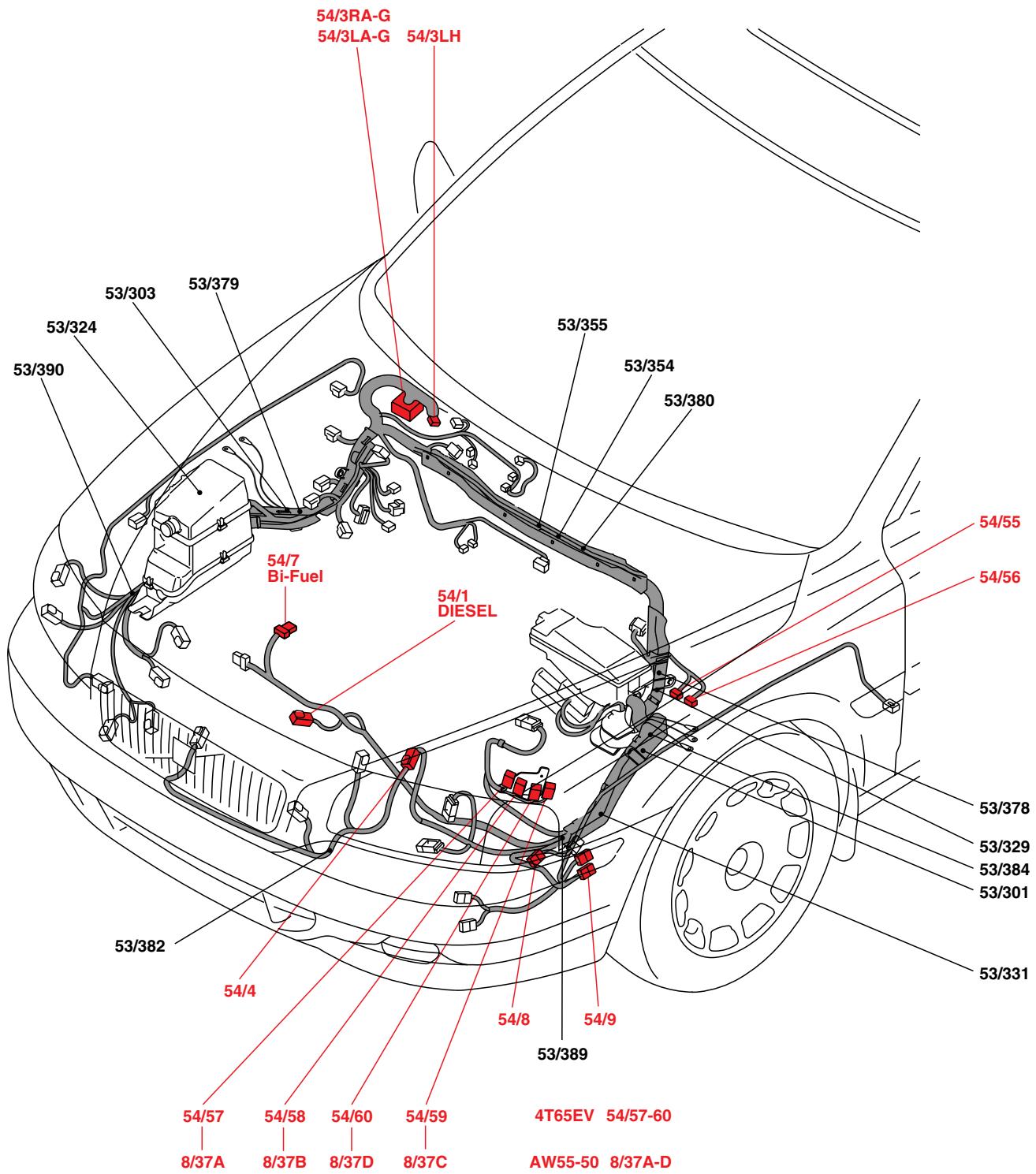


**Cable harness routing in vehicle
Front engine compartment harness LHD**

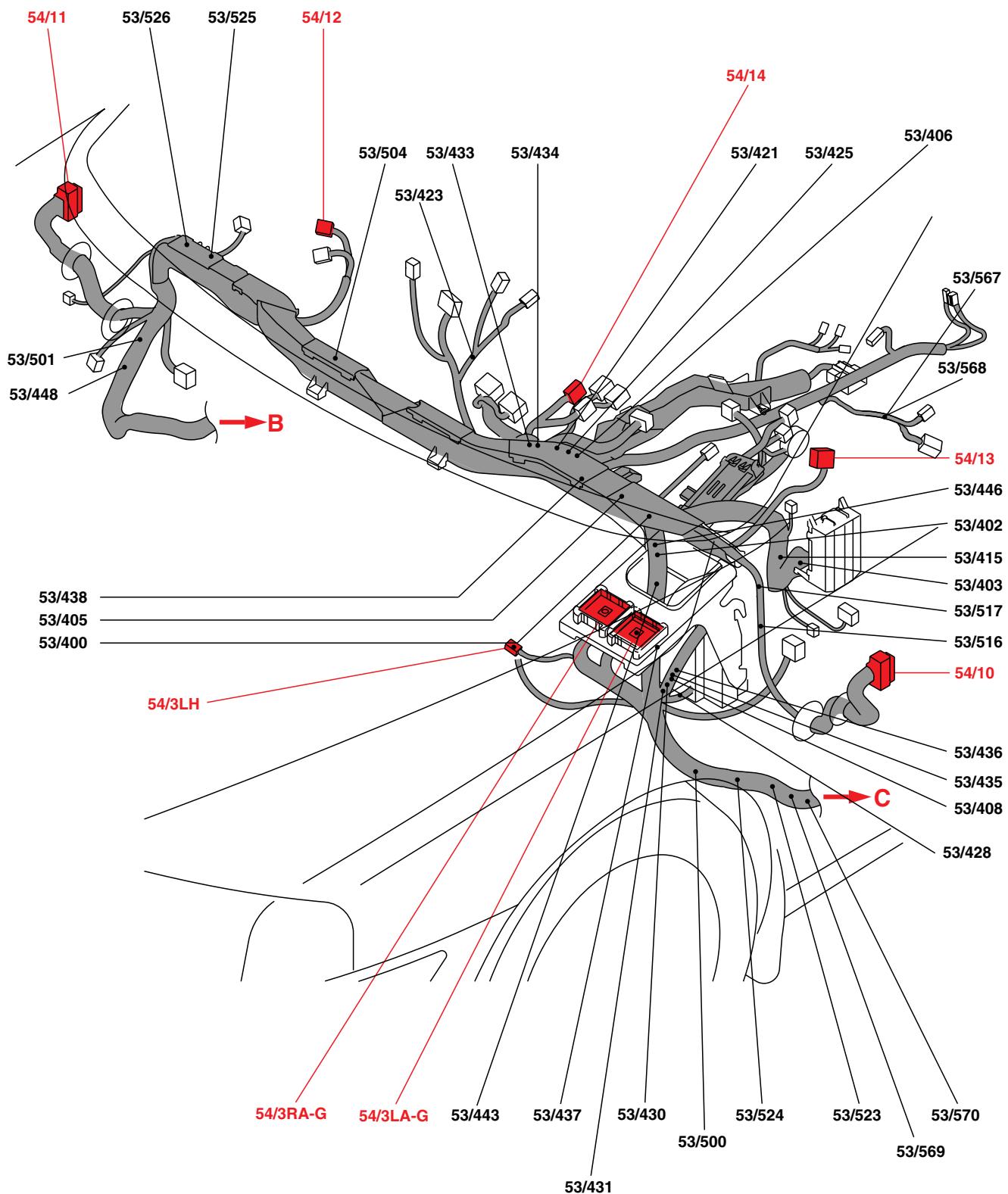


Cable harness routing in vehicle

Front engine compartment harness RHD

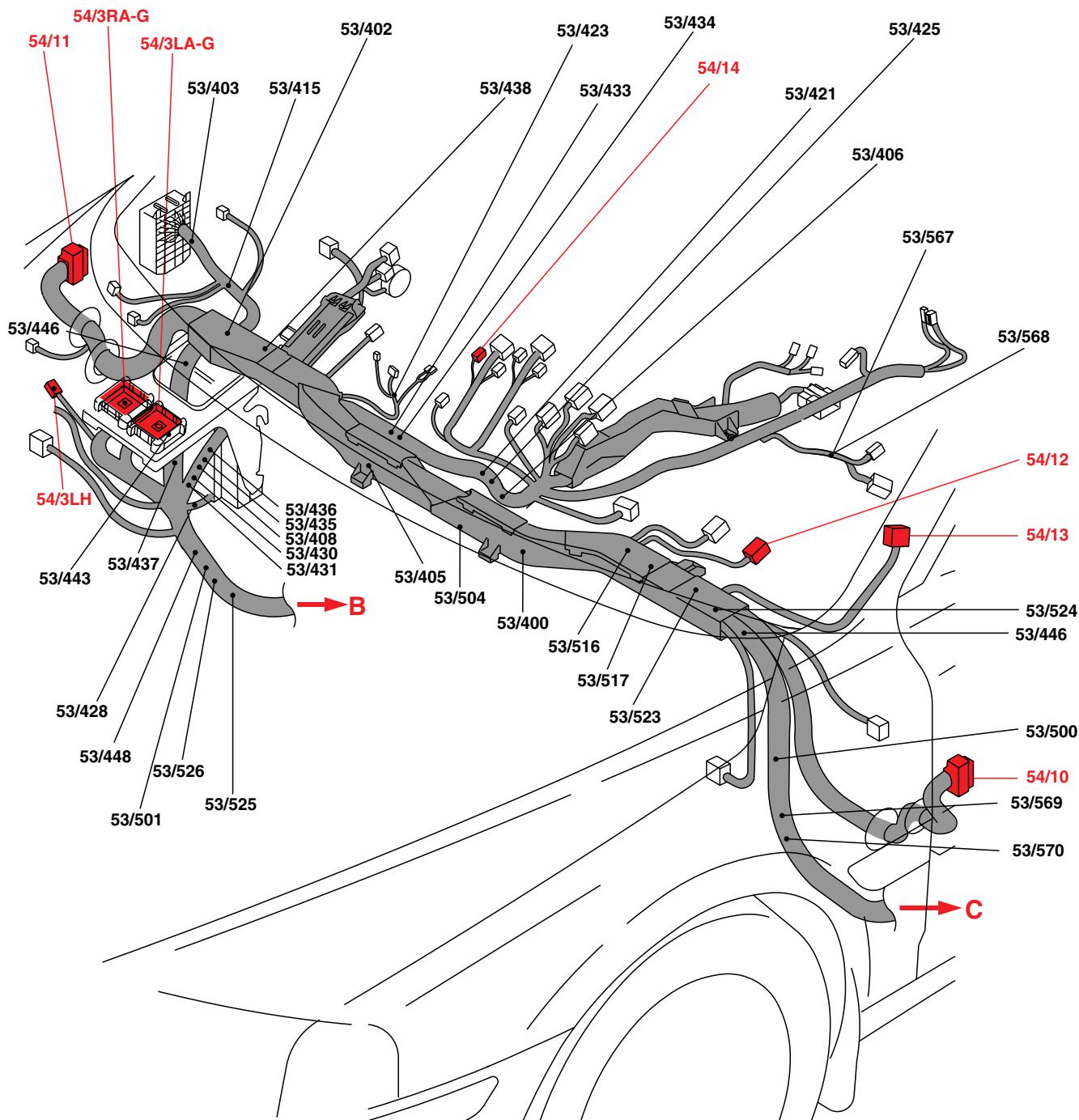


**Cable harness routing in vehicle
Front passenger compartment harness LHD**

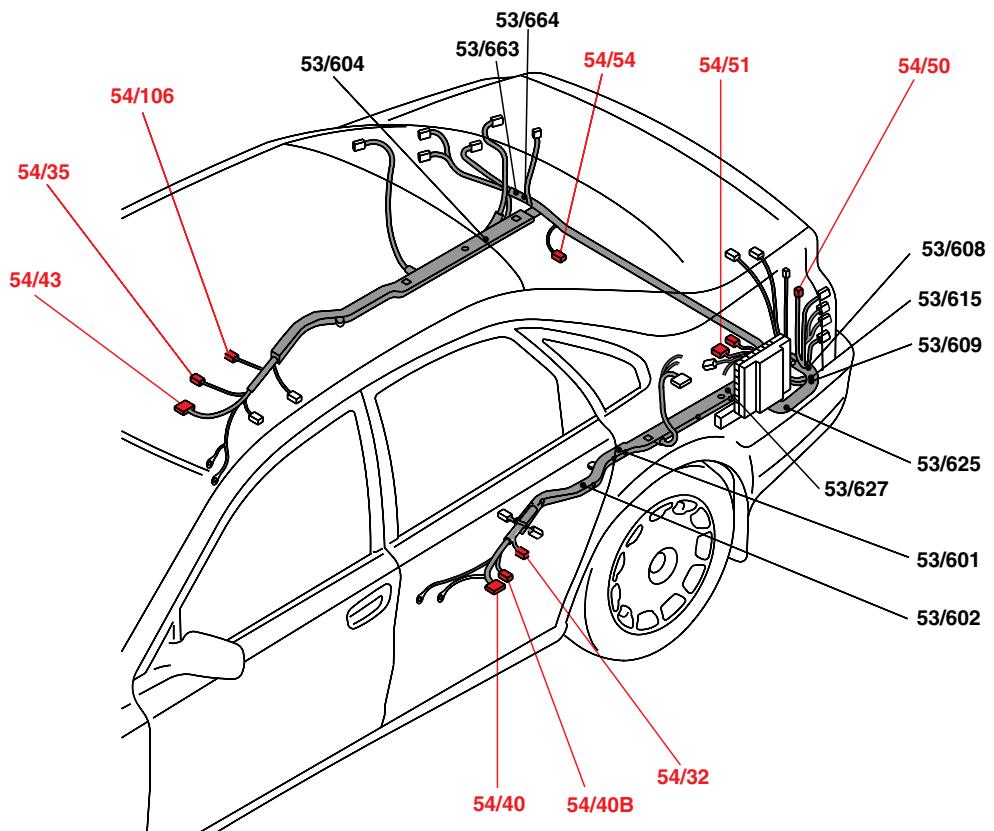
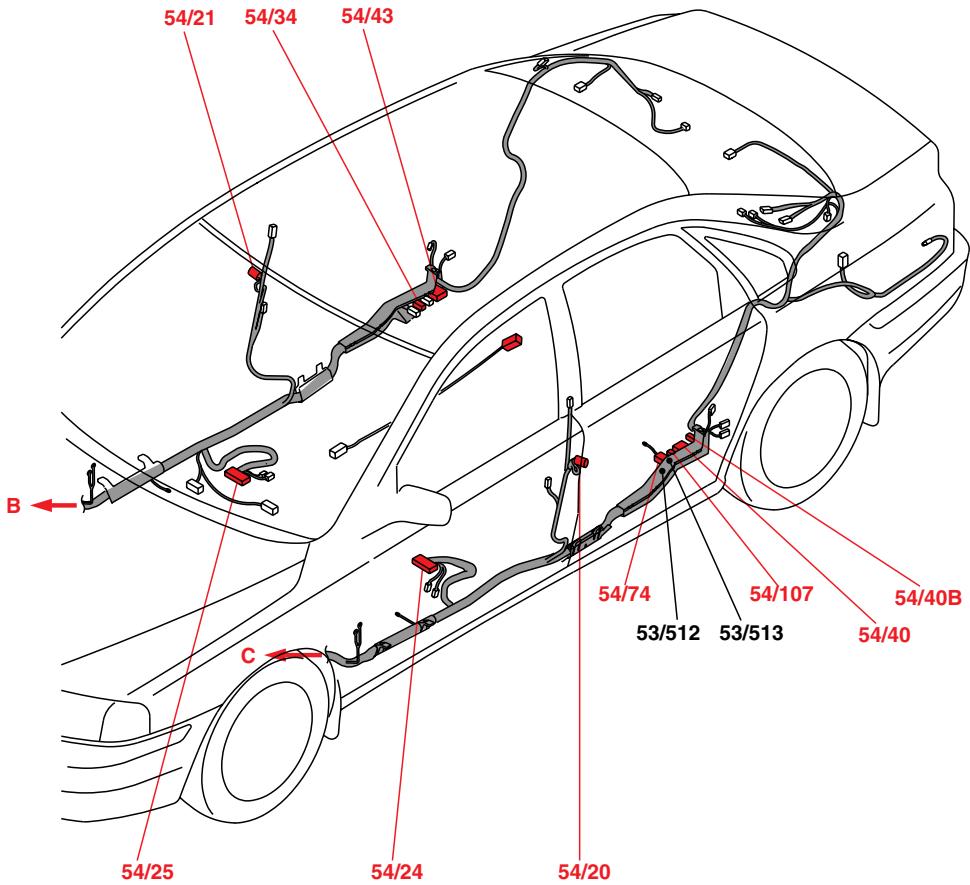


Cable harness routing in vehicle

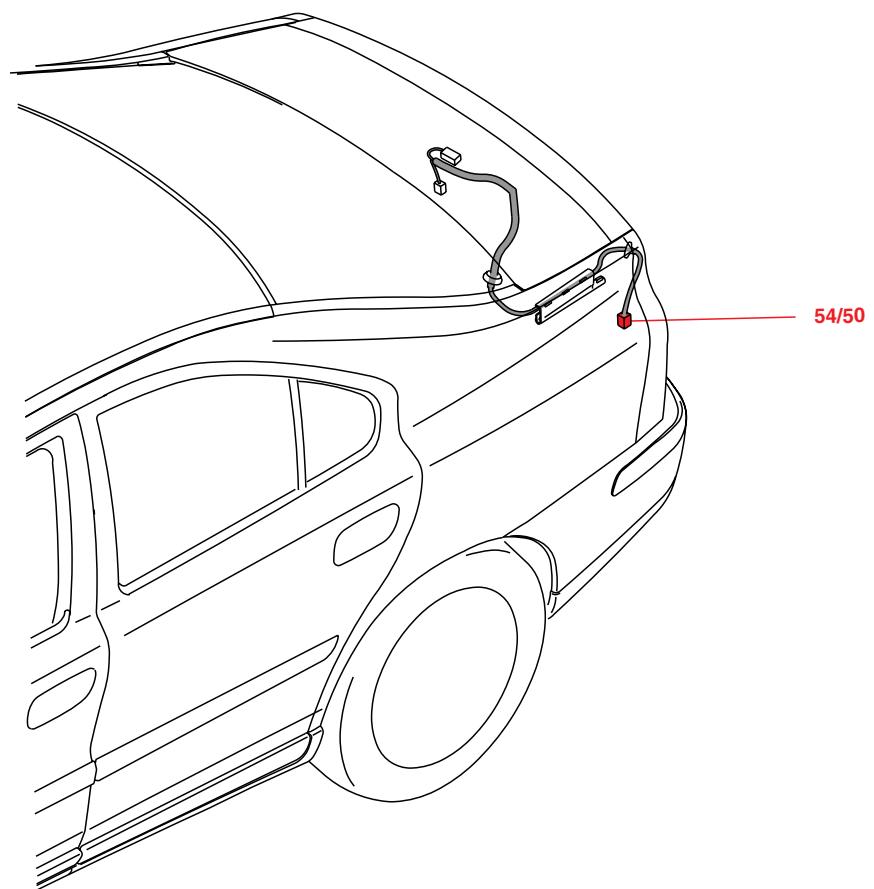
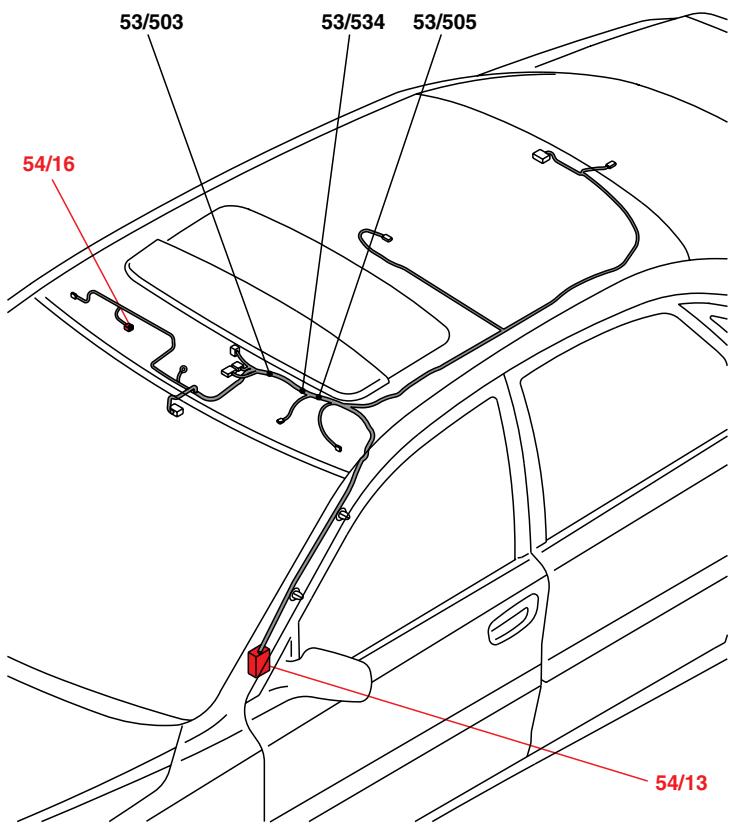
Front passenger compartment harness RHD



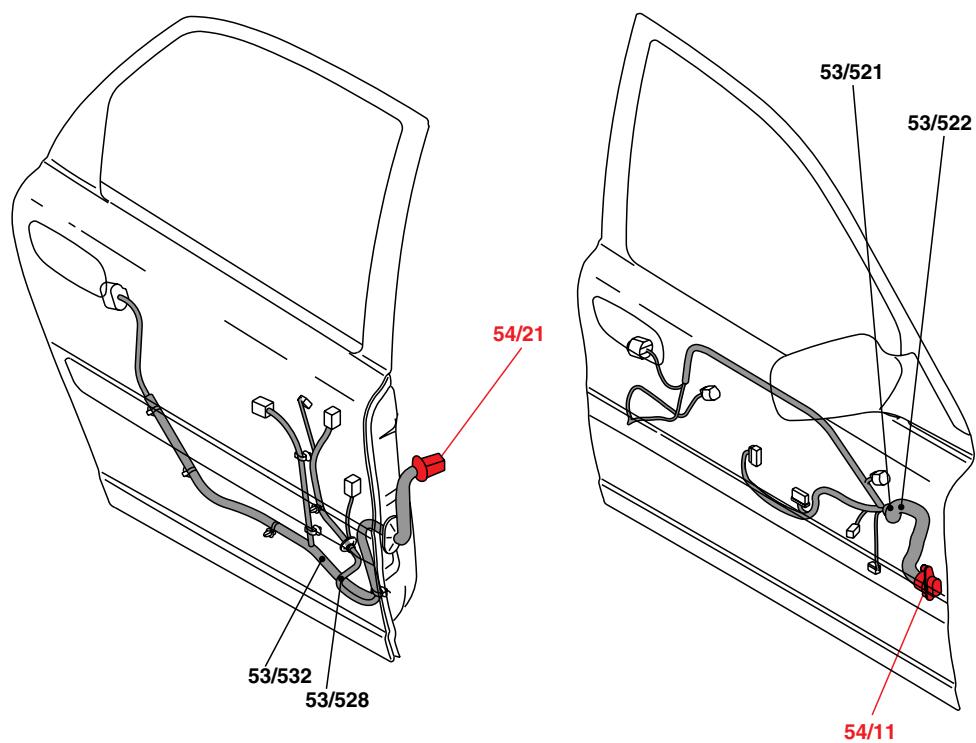
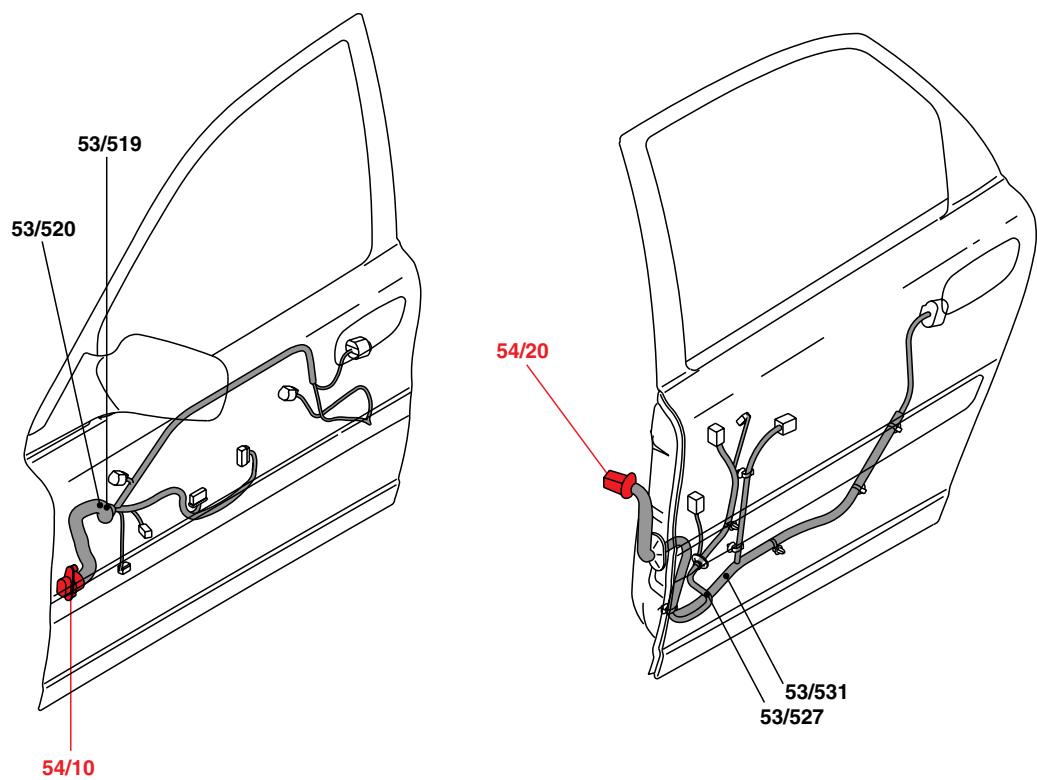
**Rear passenger compartment harness
Cargo compartment harness**



Cable harness routing in vehicle Roof harness & boot lid/tailgate

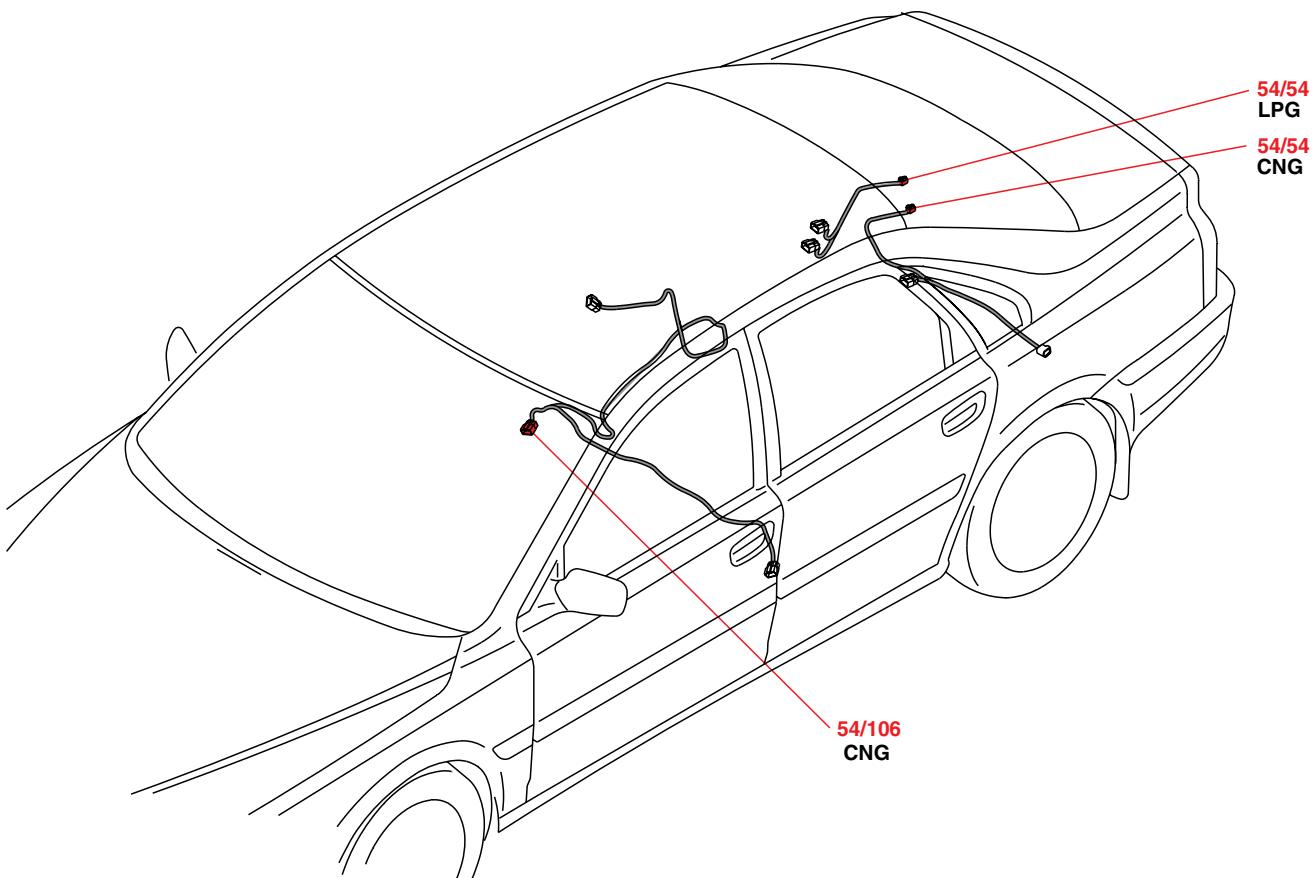


Cable harness routing in vehicle Door harness

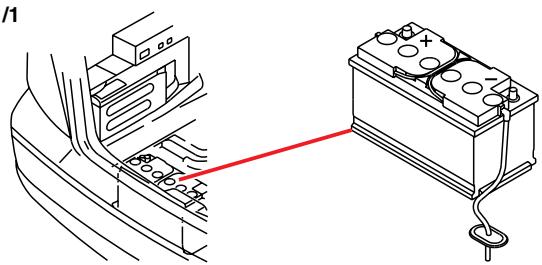


Cable harness routing in vehicle

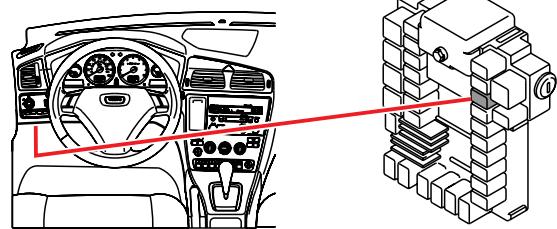
Bifuel harness



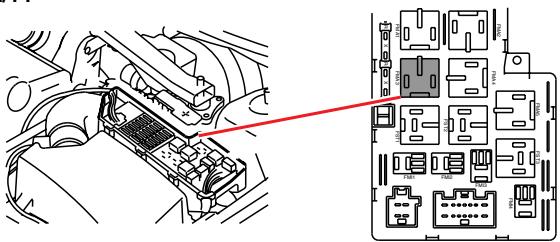
1/1



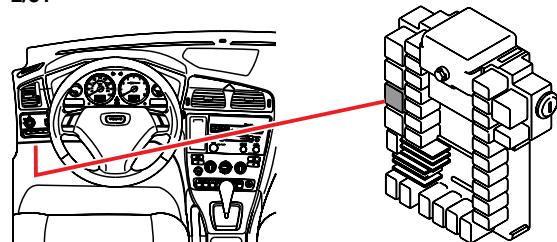
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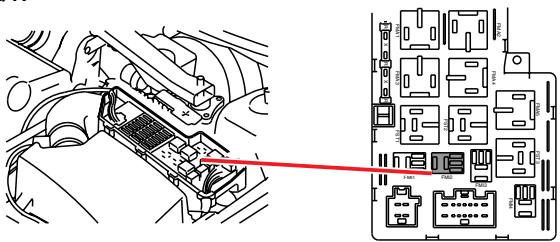
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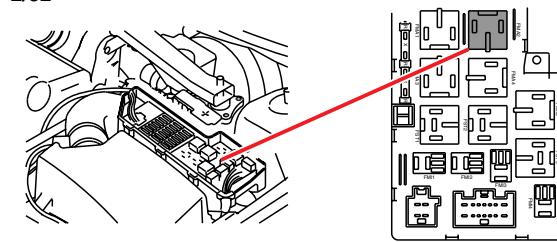
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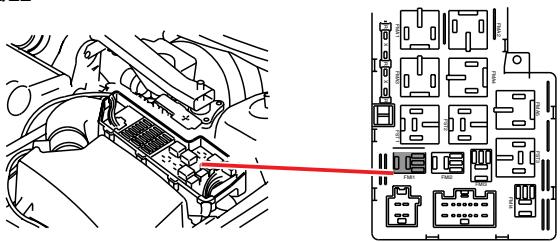
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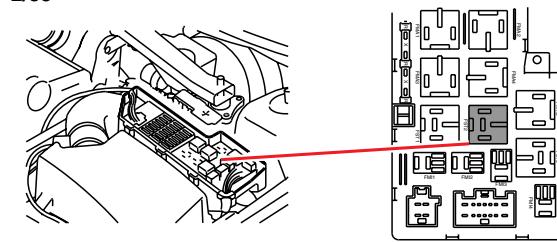
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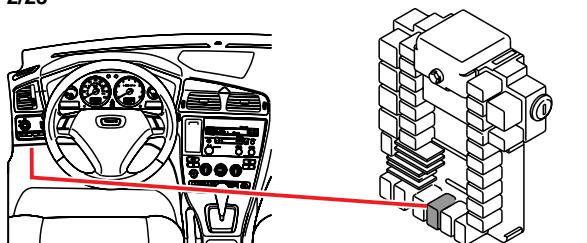
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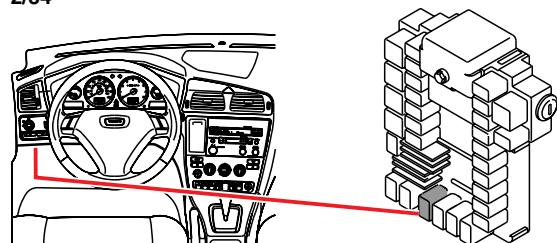
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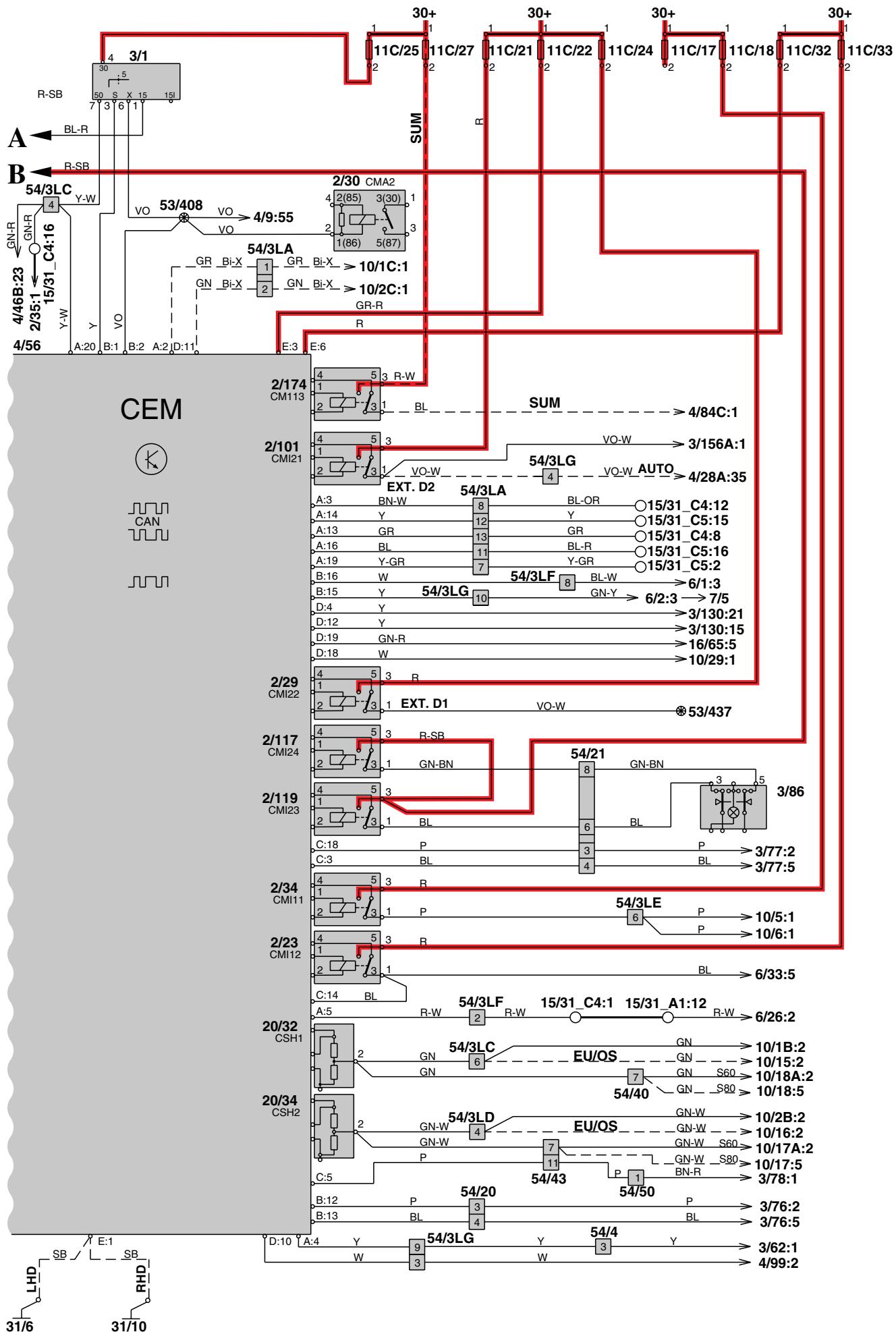
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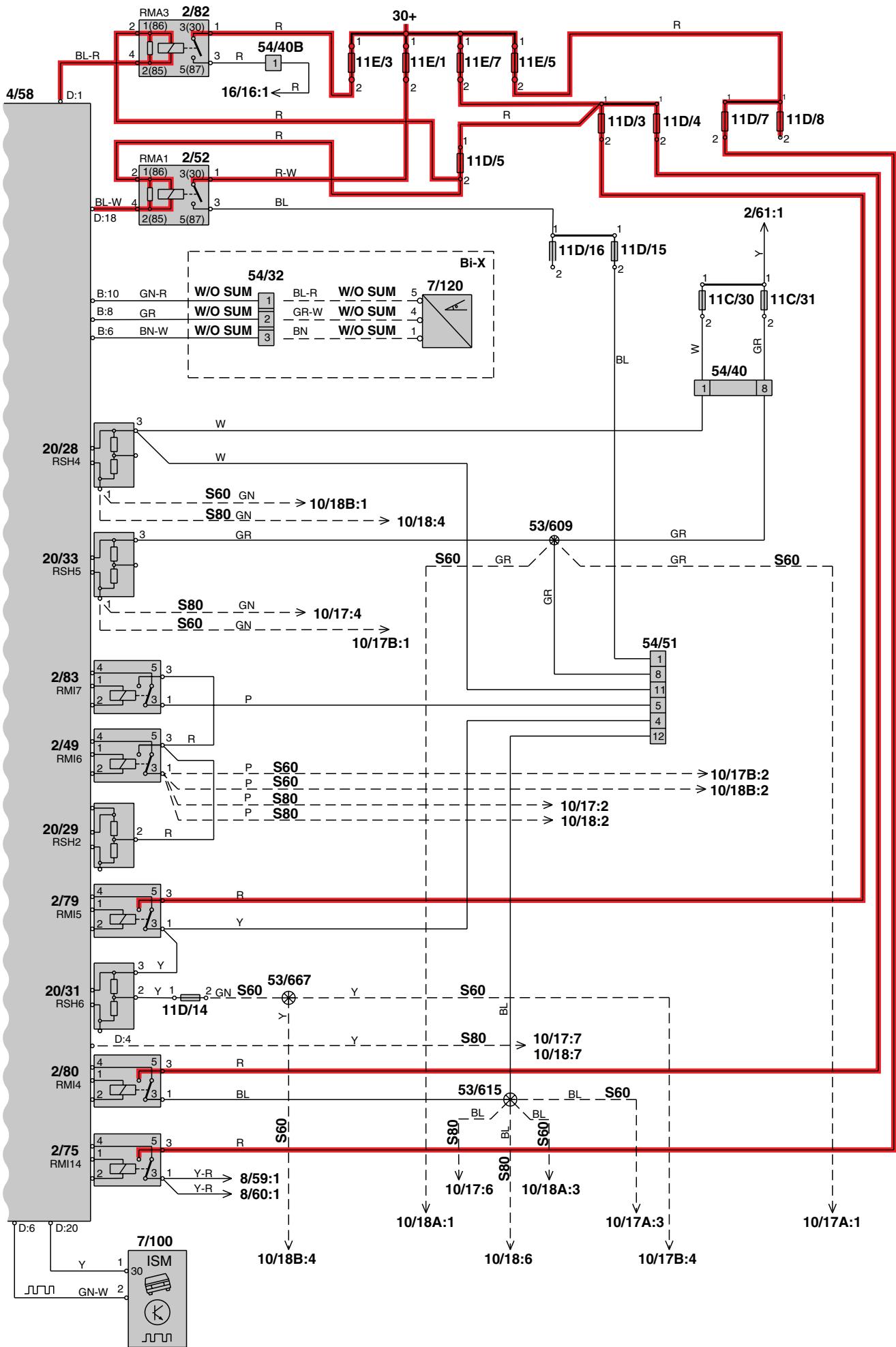
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Control modules

Central Electronic Module (CEM)

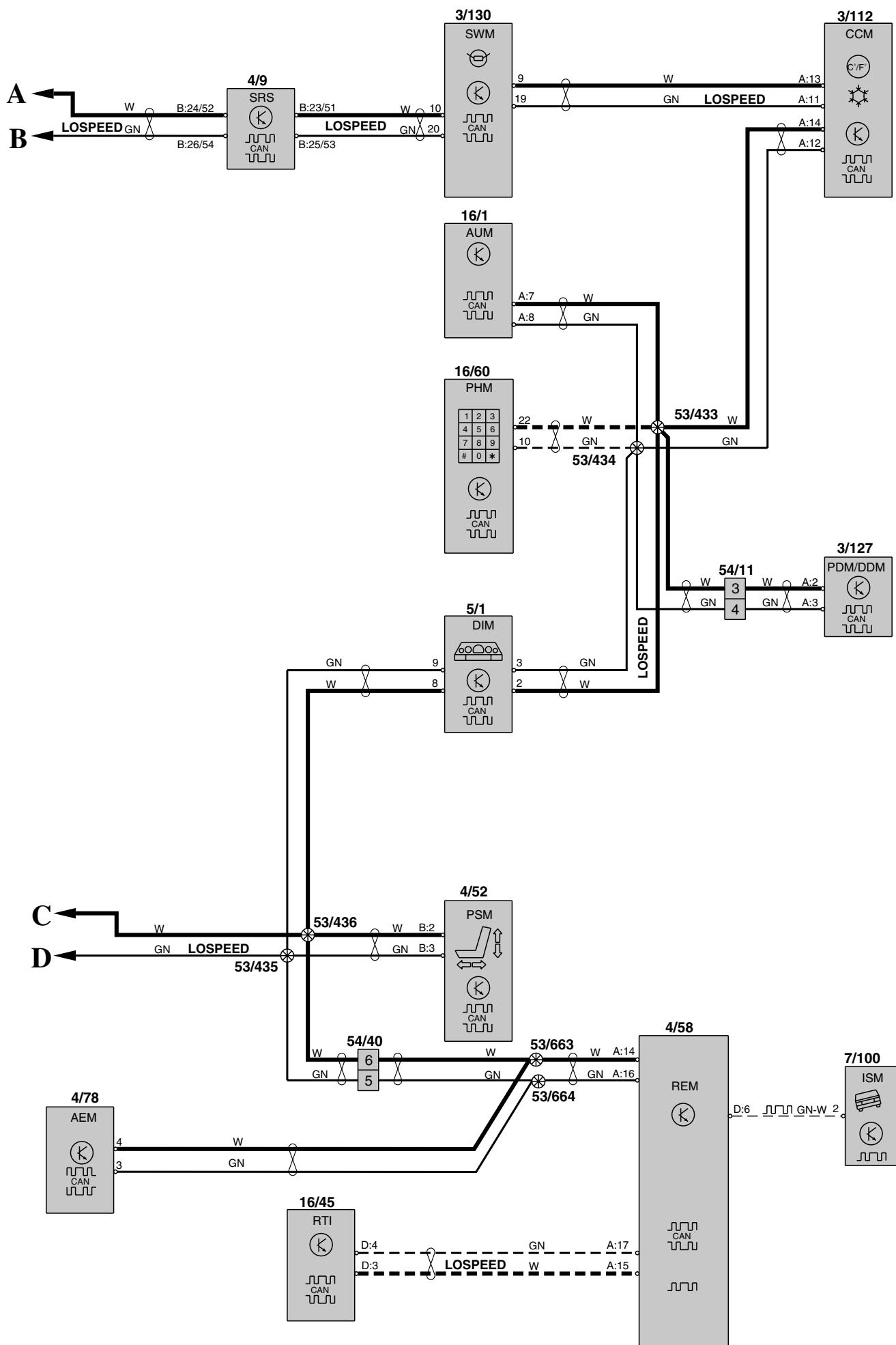


Control modules Rear Electronic Module (REM)

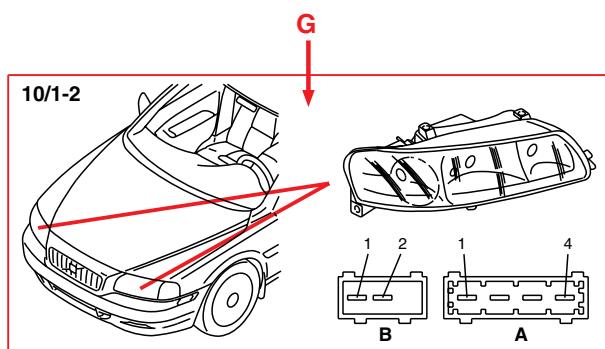
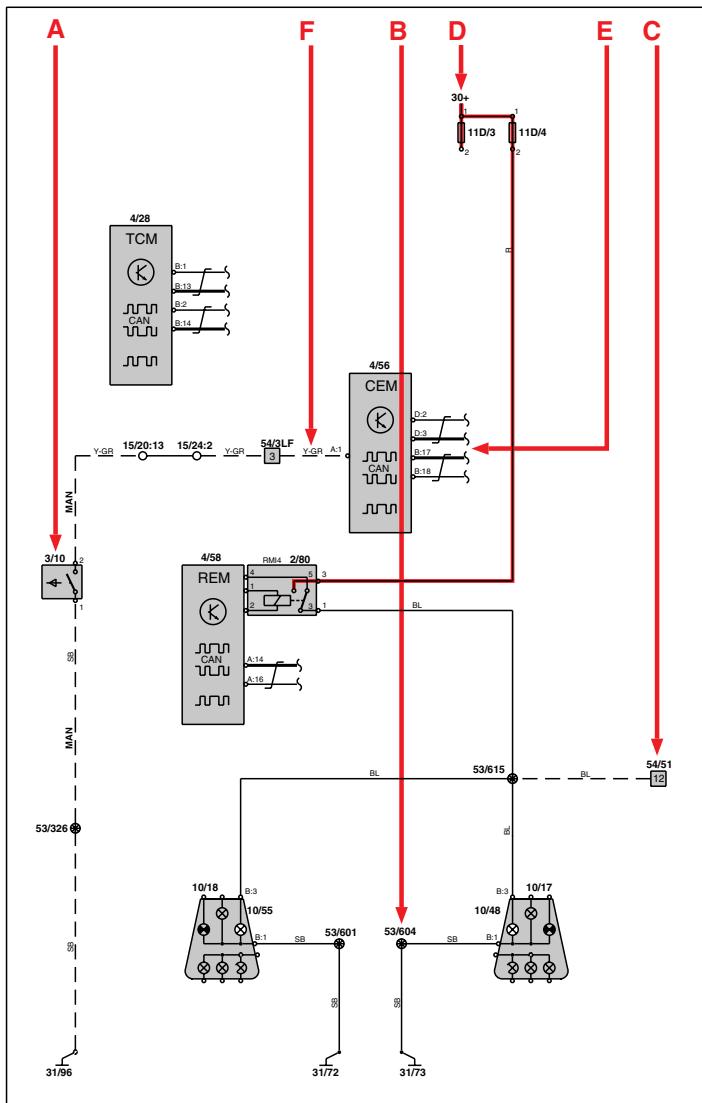


Control modules

Data communication



How to use the wiring diagram



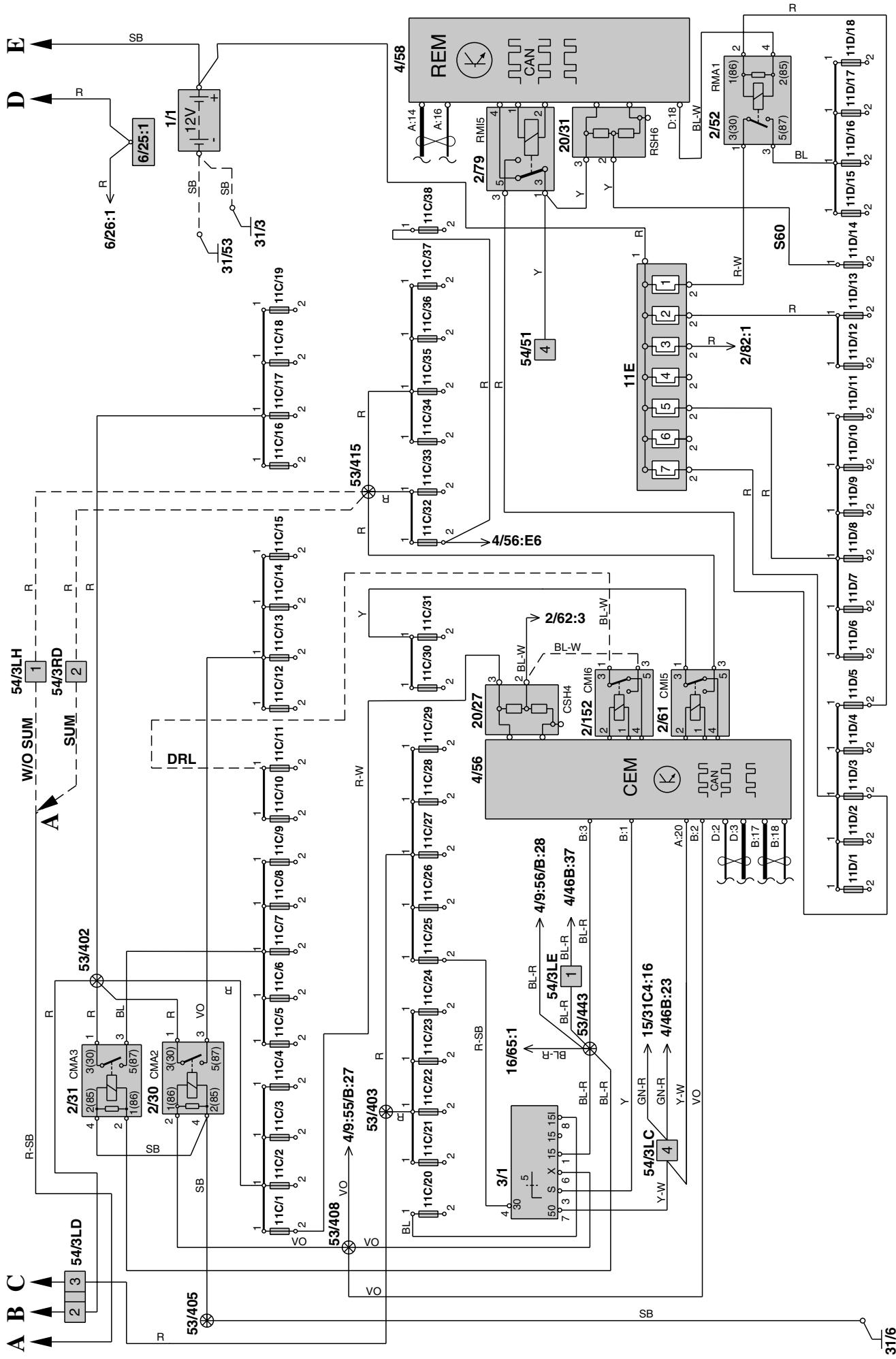
List of symbols

- = System voltage
- —** = Ground connection via wiring
- ⊥ —** = Ground connection on component/chassis
- — — —** = Screened wire
- ● ●** = Junction point
- — — —** = Twisted cable
- ○ —** = Electrical connection
- · · · —** = Variant
- — — —** = CAN communication
- — — —** = CAN high data signal (CAN H)
- — — —** = CAN low data signal (CAN L)
- ○ —** = MOST communication
- — — —** = Serial communication
- — — —** = DIN cable, coaxial cable, etc.
- { }** = Data communication
- CAN** = CAN communication
- — ○** = Connection with distribution box
- = Further connection to...
- [1]** = Connector between wiring harnesses
- [1]** = Connector connected to component

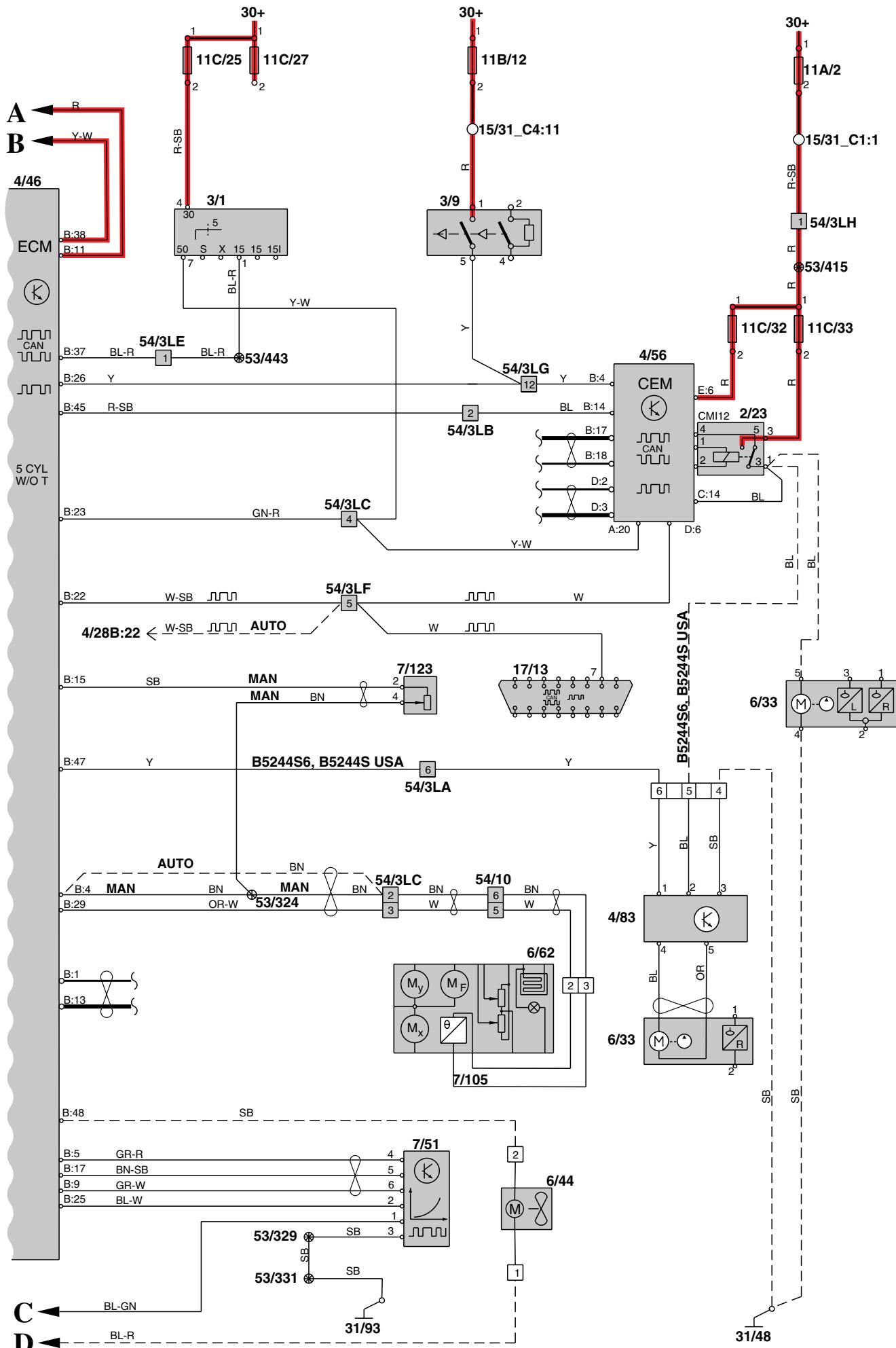
List of components

1/1	Battery	3/10	Reversing light contact
2/14	Relay, glow plug unit	3/25	Power sunroof switch
2/17	Horn relay	3/27	Power driver's seat module
2/22	Relay, climate control system	3/35	Power passenger seat module
2/23	Fuel pump relay	3/37	Trunk handle switch
2/29	Relay, extended D1 feed	3/47	Horn contact
2/30	X feed overload relay	3/53	Parking brake contact
2/31	15-feed overload relay	3/56	Recirculation switch
2/32	Engine management system main relay	3/59	Fan switch
2/33	Relay, fuel system	3/60	Control, beam adjustment
2/34	Fog light relay, front	3/62	Auxiliary light switch
2/35	Starter motor relay	3/71	Hood alarm contact
2/49	Relay, rear fog light	3/73	Gear selector contacts
2/52	Relay, 15i feed, rear	3/74	Power Child Lock (PCL) switch
2/59	Unlocking relay, fuel filler flap	3/75	Left-hand front door lock unit
2/61	Relay, position/parking light	3/76	Right-hand front door lock unit
2/62	Relay, low beam/Bi-Xenon	3/77	Left-hand rear door lock unit
2/63	High beam relay	3/78	Right-hand rear door lock unit
2/64	Auxiliary light (accessory) relay	3/80	Trunk lid lock unit
2/67	Trunk lid opening relay	3/82	Switch, left-hand central lock
2/75	Rear adjustable head restraint relay	3/85	Switch, right-hand central lock
2/79	Brake light relay	3/86	Rear left door power window switch
2/80	Reversing light relay	3/91	Rear right door power window switch
2/82	Relay, heated rear window	3/92	Switch, left-hand heated seat
2/83	Trailer fog light relay	3/93	Switch, right-hand heated seat
2/90	Relay, windshield wiper, low/high speed	3/94	Left seatbelt latch switch
2/91	Relay, intermittent windshield wiper	3/95	Right seatbelt latch switch
2/92	Relay, windshield washer motor	3/111	Spin control switch
2/101	Relay for extended D2 feed, automatic transmission	3/112	Light Switch Module (LSM)
2/112	Unlocking relay, left-hand rear	3/113	Climate Control Module (CCM)
2/114	Unlocking relay, right-hand rear	3/117	Rear adjustable head restraint relay
2/115	Relay, deadlock, rear doors	3/118	Dome light control module
2/116	Rear power window up relay	3/119	Climate control switch
2/117	Right rear power window up relay	3/121	Climate control switch, auto
2/118	Rear power window down relay	3/122	Climate control switch, defroster
2/119	Right rear power window down relay	3/123	Climate control switch, ventilation
2/120	Relay - power windows, power child lock rear door	3/124	Climate control switch, floor
2/138	Deadlock relay, left-hand rear door	3/125	Temperature switch, left-hand side
2/139	Deadlock relay, right-hand rear door	3/126	Temperature switch, right-hand side
2/140	Relay CNG/LPG	3/127	Driver/Passenger Door Module (DDM/PDM)
2/142	Relay, preheated fuel filter	3/130	Passenger/Driver Door Module (PDM/DDM)
2/143	Relay, fuel leakage control	3/131	Steering Wheel Module (SWM)
2/152	Relay, daytime running lights	3/135	Switch, audio/mobile phone
2/158	Locking relay, rear doors, filler flap	3/155	RTI switch
2/174	Relay, Suspension Module (SUM)	3/156	Automatic transmission program selector
2/191	Relay, remote parking heater start, radio signal	3/171	Gear Selector Module (GSM)
2/192	Relay (230V), engine heater	3/173	Switch, retractable door mirrors
		3/174	Switch, trunk lid private lock
		3/183	Switch, reduced alarm
3/1	Ignition switch	3/184	Switch, max defrost
3/4	Cruise control switch SWS	3/225	CNG/LPG switch
3/6	Hazard warning flasher switch		Control unit, continuous damping control (CDC)
3/8	Heated rear window/door mirror switch		
3/9	Brake light contact		

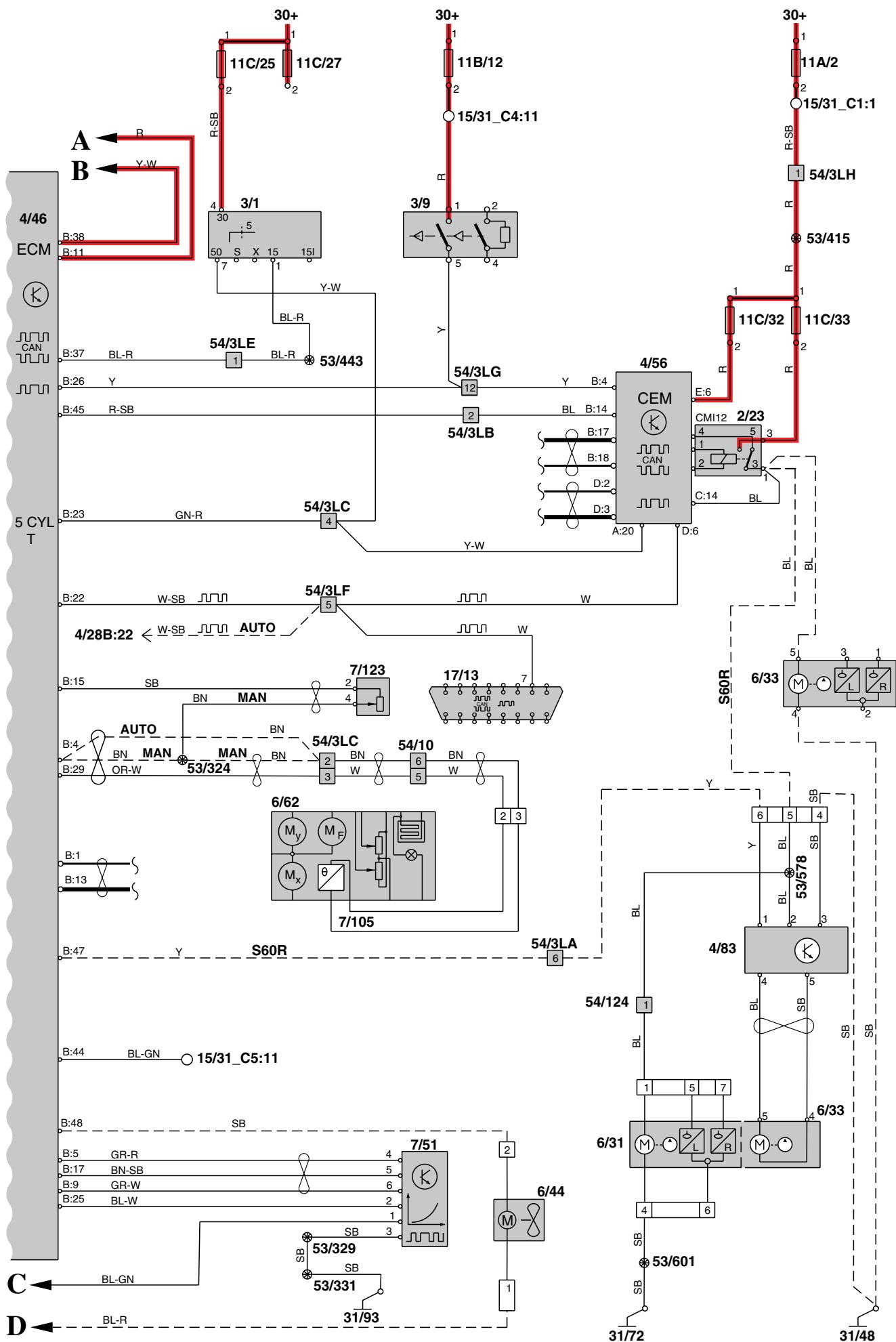
Electrical distribution Overview



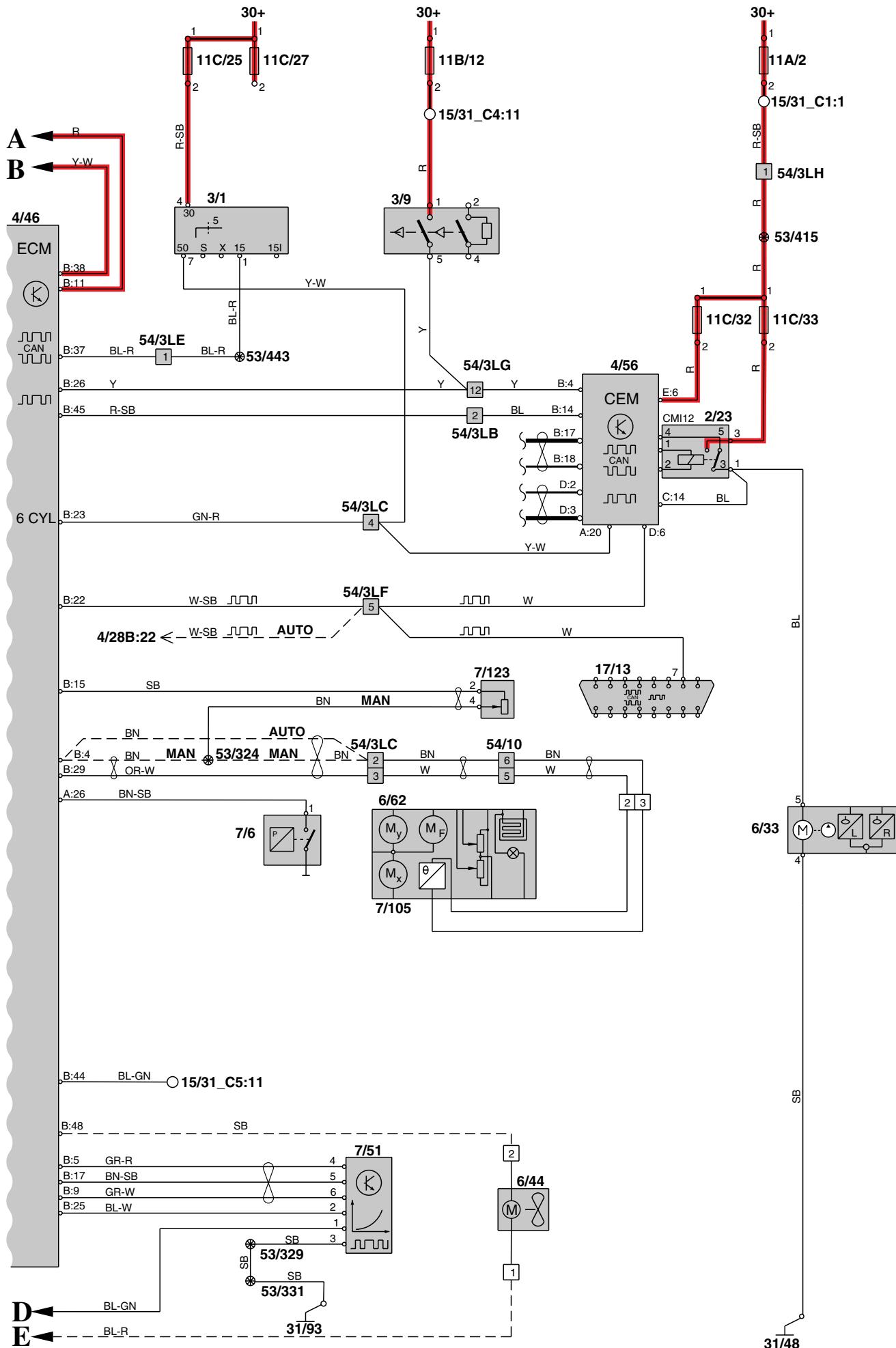
Engine management system, 5-cyl normally aspirated



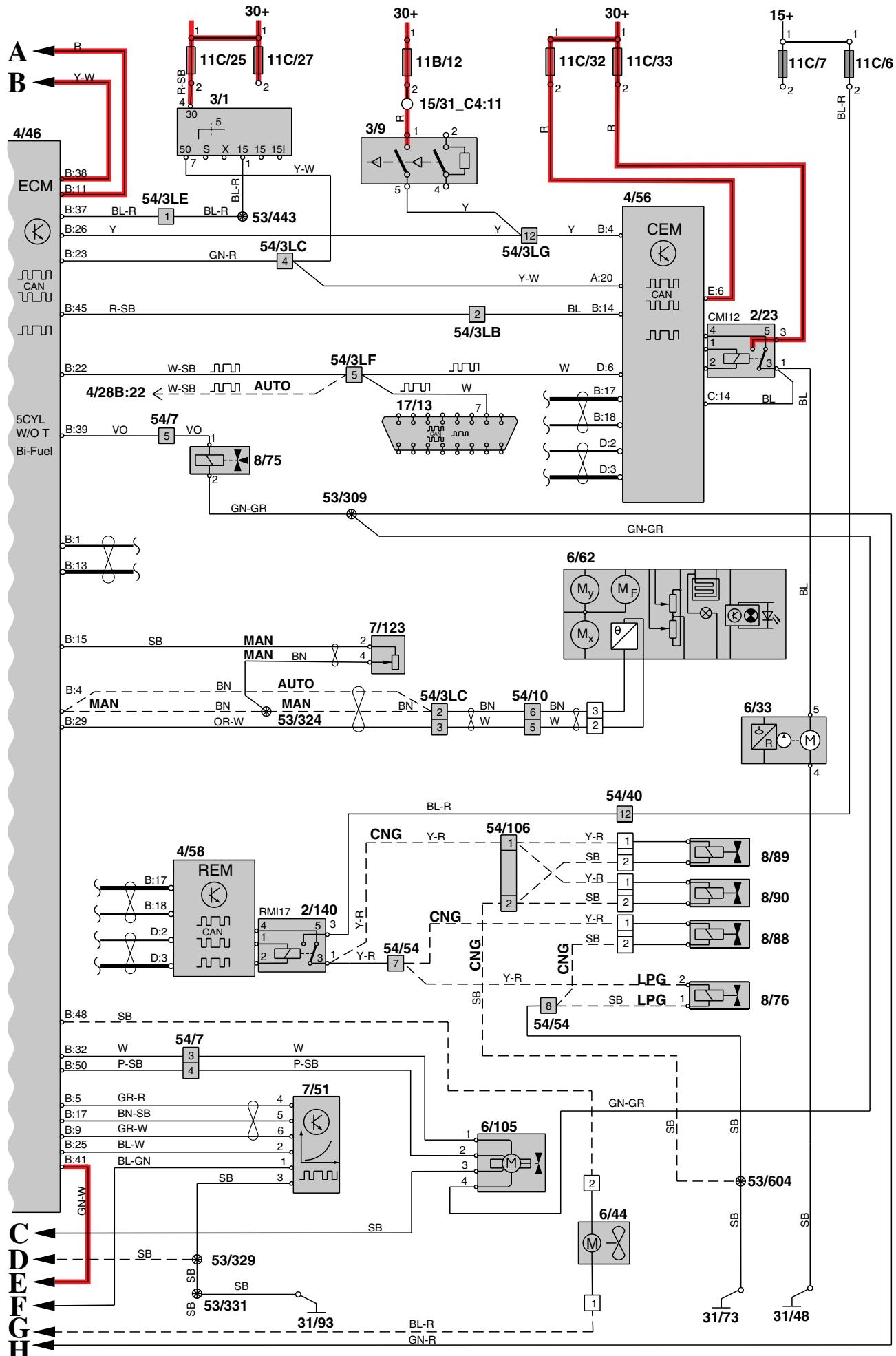
Engine management system, 5-cyl Turbo



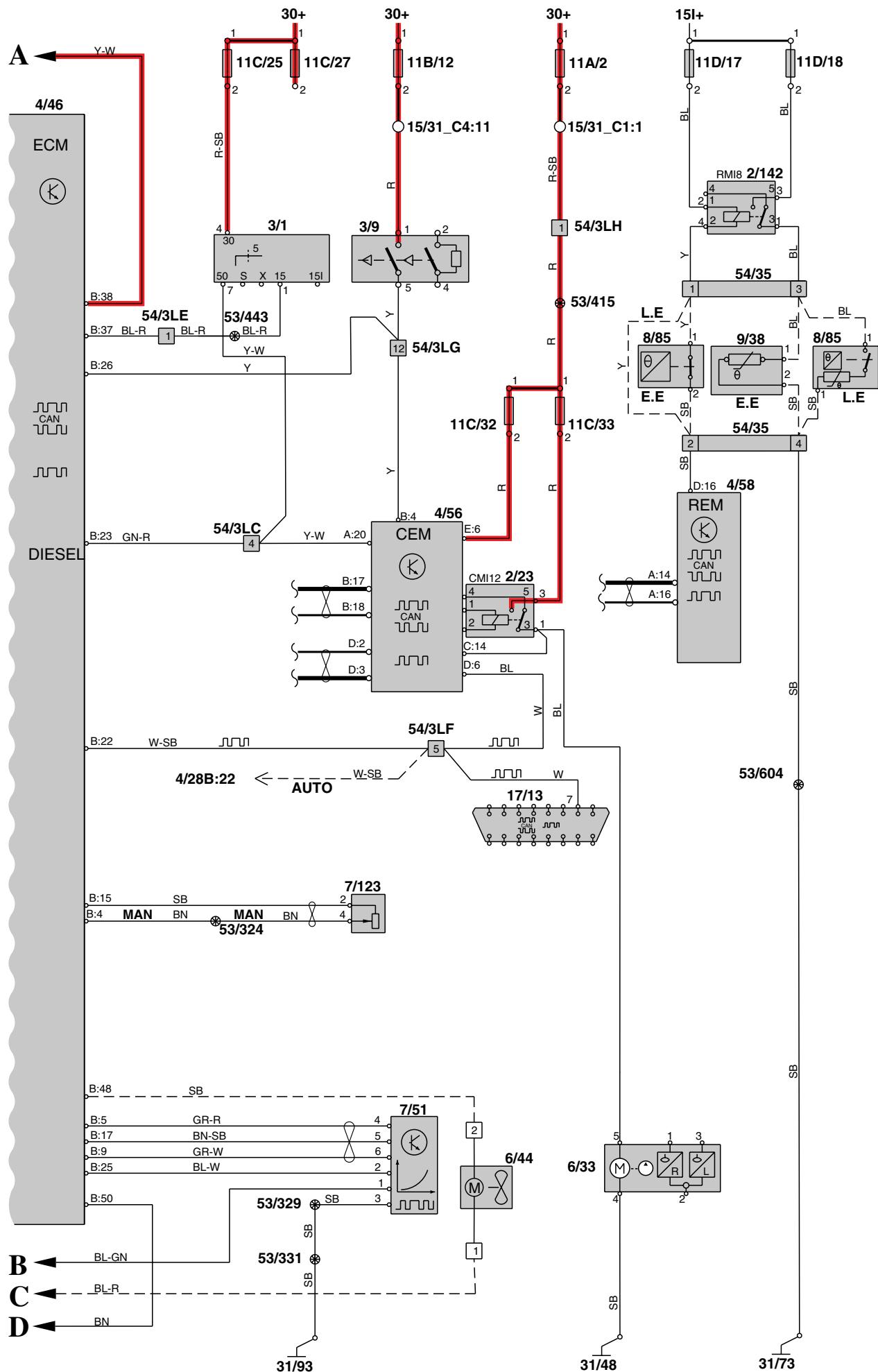
Engine management system, 6-cyl



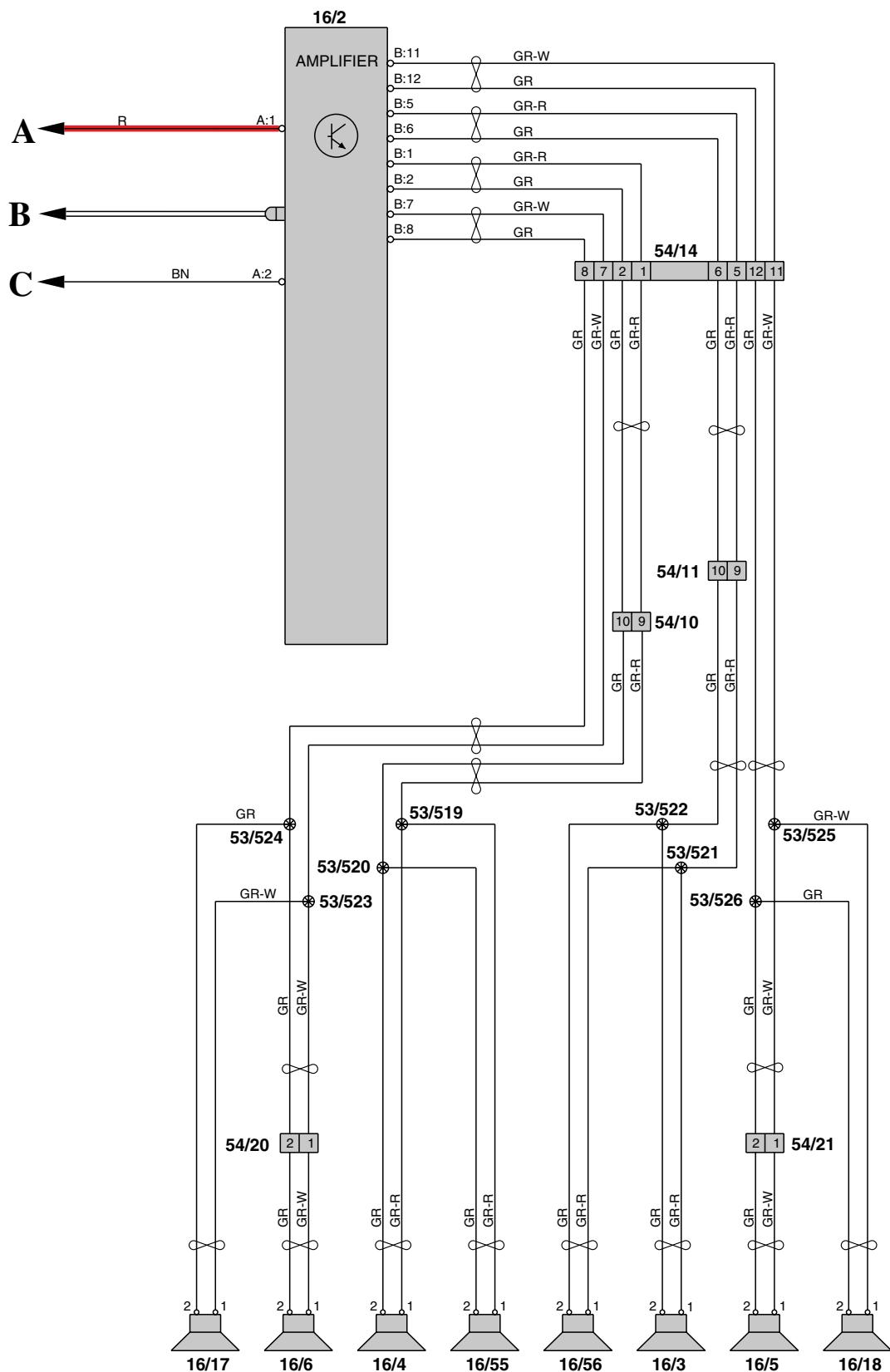
Engine management system, Bifuel



Engine management system, Diesel



Audio with auxiliary amplifier



54/3LB
13-pin white

No.	Passenger compartment harness			Engine compartment harness		
8	7/164:3	Sensor module DSTC/pressure sensor	GR	4/16:6	Brake Control Module (BCM)	P-W
9	7/57:1	Right-hand rear ABS sensor	BN	4/16:43	Brake Control Module (BCM)	BN-W
10	7/57:2	Right-hand rear ABS sensor	Y	4/16:42	Brake Control Module (BCM)	Y-W
11	7/56:1	Left-hand rear ABS sensor	BN	4/16:36	Brake Control Module (BCM)	BN-OR
12	7/56:2	Left-hand rear ABS sensor	Y	4/16:37	Brake Control Module (BCM)	Y-VO
13	11C/9:2	Fuse in passenger compartment fuse box	BL-R	4/16:4	Brake Control Module (BCM)	BL-R

54/3LC
6-pin white

No.	Passenger compartment harness			Engine compartment harness		
1	54/34:1	Connector, LHD	GN-GR	15/31C5:13	Engine compartment distribution box, LHD	GN-GR
2	54/10:6	Connector	BN	53/324 4/46B:4	Junction point, Man Engine Control Module (ECM), Auto	BN
3	54/10:5	Connector	W	4/46B:29	Engine Control Module (ECM)	OR-W
4	4/56A:20 3/1:7	Central Electronic Module CEM Ignition switch	Y-W	15/31C4:16 4/46B:23	Engine compartment distribution box Engine Control Module (ECM)	GN-R
5	11C/5:2	Fuses in passenger compartment fuse box	BL-R	4/99:4 8/84:1	Electronic power steering control module Switch, vacuum pump	BL-R GN-GR
6	20/32:2	Shunt, indicator CEM, left	GN	10/15:2 10/1B:2	Front left fender direction indicator Left-hand front lamp housing	GN

54/3LD
4-pin white

No.	Passenger compartment harness			Engine compartment harness		
1	6/35:1	Fuel pump, auxiliary heater	Y	54/9:2	Connector	Y
2	53/402	Junction point	R	15/31C1:2	Engine compartment distribution box	R-W
3	53/403	Junction point	R	15/31C2:1	Engine compartment distribution box	R
4	20/34:2	Shunt, indicator CEM, right	GN-W	10/16:2 10/2B:2	Front right fender direction indicator Right-hand front lamp housing	GN-W

Connectors

54/3LE - 54/3LF

54/3LE 6-pin white

No.	Passenger compartment harness		Engine compartment harness		
1	53/443	Junction point	BL-R	4/46B:37	Engine Control Module (ECM)
2	2/63:1	High beam relay	BL	15/31C3:3	Engine compartment distribution box
3	2/62:1	Relay, low beam/Bi-Xenon	GR	15/31C3:1	Engine compartment distribution box
4	-		-	-	-
5	-		-	-	-
6	2/34:1	Fog light relay, front	P	10/6:1 10/5:1	Front right fog light Front left fog light

54/3LF 13-pin white

No.	Passenger compartment harness		Engine compartment harness		
1	5/1:4	Driver Information Module (DIM)	GR	4/46B:46	Engine Control Module (ECM)
2	4/56A:5	Central Electronic Module CEM	R-W	15/31C4:1	Engine compartment distribution box
3	4/56A:1	Central Electronic Module CEM	Y-GR	3/10:1	Switch, reversing lights, Man
4	4/56D:9	Central Electronic Module CEM	Y	8/37B:1 54/58:1	Automatic transmission, AW55-50 Connector, 4T65EV
5	4/56D:6 17/13:7	Central Electronic Module CEM Data link connector	W	4/46B:22 4/28B:22	Engine Control Module (ECM) Transmission Control Module (TCM)
6	3/156A:2	Gear Selector Module (GSM)	GN-W	4/28B:21	Transmission Control Module (TCM)
7	11C/38:2	Fuse in passenger compartment fuse box	R	16/35:1	Siren Control Module (SCM)
8	4/56B:16 54/13:14	Central Electronic Module CEM Connector	W	6/1:3	Windshield wiper motor
9	5/1:5	Driver Information Module (DIM)	Y-R	7/4:1	Brake fluid level sensor
10	11C/31:2	Fuse in passenger compartment fuse box	GR	53/379	Junction point
11	11C/30:2	Fuse in passenger compartment fuse box	W	53/378	Junction point
12	53/437	Junction point	VO-W	54/9:4	Connector
13	4/56A:18 3/111:3	Central Electronic Module CEM Light Switch Module (LSM)	GN-W	54/9:6	Connector

54/3LG
13-pin white

No.	Passenger compartment harness		Engine compartment harness		
1	11C/10:2	Fuse in passenger compartment fuse box	BL-GN	10/1C:2	Left-hand front lamp housing
2	11C/11:2	Fuse in passenger compartment fuse box	BL-Y	10/2C:2	Right-hand front lamp housing
3	4/56D:10	Central Electronic Module CEM	W	4/99:2	Electronic power steering control module
4	2/101:1	Relay for extended D2 feed, automatic transmission	VO-W	4/28A:35	Transmission Control Module (TCM)
5	54/13:15	Connector	P	16/35:2	Siren Control Module (SCM)
6	53/430	Junction point	W	4/46B:13 4/28B:14	Engine Control Module (ECM) Transmission Control Module (TCM)
7	53/431	Junction point	GN	4/46B:1 4/28B:2	Engine Control Module (ECM) Transmission Control Module (TCM)
8	4/56C:6	Central Electronic Module CEM	BN-W	54/8:2	Connector
9	4/56A:4	Central Electronic Module CEM	Y	54/4:3	Connector
10	4/56B:15	Central Electronic Module CEM	Y	6/2:3	Windshield washer pump
11	4/56A:9	Central Electronic Module CEM	GN-R	6/38:2 6/39:2	Left-hand headlight level adjustment motor Right-hand headlight adjustment motor
12	4/56B:4	Central Electronic Module CEM	Y	4/46B:26 3/9:5	Engine Control Module (ECM) Brake light contact
13	11C/12:2	Fuse in passenger compartment fuse box	VO	53/380	Junction point

54/3LH
2-pin black

No.	Passenger compartment harness		Engine compartment harness		
1	53/415	Junction point	R	15/31C1:1	Engine compartment distribution box
2	-	-	-	-	-

Connectors

54/3RA - 54/3RB

54/3RA 13-pin black

No.	Passenger compartment harness			Engine compartment harness		
1	4/84A:6	Suspension Module (SUM)	GN	8/20:1	Shock absorber, Four-C, front left	GN-SB
2	4/84A:7	Suspension Module (SUM)	BL-R	8/20:2	Shock absorber, Four-C, front left	BL-Y
3	4/84A:9	Suspension Module (SUM)	GR-R	8/21:1	Shock absorber, Four-C, front right	GN-W
4	4/84A:12	Suspension Module (SUM)	Y-W	7/118:2	Acceleration sensor, shock absorber, Four-C, FL	Y-W
5	53/570	Junction point	SB	53/355	Junction point	SB
6	53/569	Junction point	R	53/354	Junction point	R
7	4/84A:10	Suspension Module (SUM)	VO-W	7/87:1	Acceleration sensor, Four-C, front left	VO-W
8	-		-	-		-
9	-		-	-		-
10	-		-	-		-
11	-		-	-		-
12	-		-	-		-
13	-		-	-		-

54/3RB 13-pin black

No.	Passenger compartment harness			Engine compartment harness		
1	-		-	-		-
2	4/84A:8	Suspension Module (SUM)	BN-W	8/21:2	Shock absorber, Four-C, front right	BN-W
3	-		-	-		-
4	4/84A:27	Suspension Module (SUM)	BN	7/119:2	Acceleration sensor, shock absorber, Four-C, front right	Y-BN
5	-		-	-		-
6	-		-	-		-
7	4/84A:22	Suspension Module (SUM)	VO	7/88:1	Acceleration sensor, Four-C, front right	VO
8	-		-	-		-
9	-		-	-		-
10	-		-	-		-
11	-		-	-		-
12	-		-	-		-
13	-		-	-		-

54/3RD
4-pin black

No.	Passenger compartment harness		Engine compartment harness	
1	-	-	-	-
2	53/415	Junction point	R	15/31C1:1 Engine compartment distribution box
3	-	-	-	-
4	-	-	-	-

54/4
4-pin dark gray

No.	Engine compartment harness		Front harness	
1	15/31C6:11	Engine compartment distribution box	R-SB	16/10:1 Horn 1
2	15/31C6:11	Engine compartment distribution box	R-SB	16/11:1 Horn 2
3	54/3LG:9	Connector	Y	3/62:1 Hood alarm contact
4	53/331	Junction point	SB	53/382 Junction point

54/7
6-pin dark gray

No.	Engine compartment harness		Engine harness Bi-Fuel	
1	-	-	-	-
2	-	-	-	-
3	4/46B:32	Engine Control Module (ECM)	W	6/105:1 Fuel distributor, gas
4	4/46B:50	Engine Control Module (ECM)	P-SB	6/105:2 Fuel distributor, gas
5	4/46B:39	Engine Control Module (ECM)	VO	8/75:1 Valve, fuel cut-off DFCO
6	-	-	-	-

54/8
2-pin dark gray

No.	Engine compartment harness		Auxiliary light harness	
1	15/31C6:3	Engine compartment distribution box	R-SB	-
2	54/3LG:8	Connector	BN-W	2/64:1 Auxiliary light (accessory) relay

54/11

12-pin black

No.	Passenger compartment harness		Front right door harness		
1	11C/36:2	Fuse in passenger compartment fuse box	R	3/127B:12	Passenger/Driver Door Module (PDM/DDM)
2	-		-	-	-
3	53/433	Junction point	W	3/127A:2	Passenger/Driver Door Module (PDM/DDM)
4	53/434	Junction point	GN	3/127A:3	Passenger/Driver Door Module (PDM/DDM)
5	-		-	-	-
6	-		-	-	-
7	-		-	-	-
8	4/56D:8	Central Electronic Module CEM	P	3/75:3	Right-hand front door lock unit
9	16/1B:5 54/14:5	Audio Module (AUM) Connector	GR-R	53/521	Junction point
10	16/1B:6 54/14:6	Audio Module (AUM) Connector	GR	53/522	Junction point
11	53/501	Junction point	SB	3/127B:5	Passenger/Driver Door Module (PDM/DDM)
12	-		-	-	-

54/12

4-pin orange

No.	Passenger compartment harness		Airbag (SRS) harness		
1	4/9B:12/40	Control module, Supplemental Restraint System (SRS)	OR	8/31:1	Passenger side airbag igniter
2	4/9B:11/39	Control module, Supplemental Restraint System (SRS)	OR-SB	8/31:2	Passenger side airbag igniter
3	4/9B:14/42	Control module, Supplemental Restraint System (SRS)	GN-OR	8/32:2	Passenger side airbag igniter, stage 2
4	4/9B:13/41	Control module, Supplemental Restraint System (SRS)	OR	8/32:1	Passenger side airbag igniter, stage 2

Connectors

54/13 - 54/14

54/13

22-pin black

No.	Passenger compartment harness			Roof harness		
1	11C28:2	Fuse in passenger compartment fuse box	R	53/534	Junction point	R
2	-		-	-	-	-
3	-		-	-	-	-
4	-		-	-	-	-
5	53/516	Junction point	W	4/70:3	Upper Electronic Module UEM	W
6	53/517	Junction point	GN	4/70:5	Upper Electronic Module UEM	GN
7-10	-		-	-	-	-
11	4/56B:5	Central Electronic Module CEM	Y-R	10/19:1	Auxiliary brake light	Y-R
12	-		-	-	-	-
13	-		-	-	-	-
14	54/3LF:8	Connector	W	54/16:4	Connector	W
15	54/3LG:5	Connector	P	4/33:4 4/70:21	Sunroof control module SRM Upper Electronic Module UEM	P
16	-		-	-	-	-
17	-		-	-	-	-
18	-		-	-	-	-
19	-		-	-	-	-
20	53/400	Junction point	BN	53/503	Junction point	BN
21	11C/34:2	Fuse in passenger compartment fuse box	R	4/33A:1	Sunroof control module SRM	R
22	53/405	Junction point	SB	4/33A:10	Sunroof control module SRM	SB

54/14

12-pin light gray

No.	Passenger compartment harness			Audio		
1	54/10:9	Connector	GR-R	16/2B:1	Amplifier	GR-R
2	54/10:10	Connector	GR	16/2B:2	Amplifier	GR
3	-		-	-	-	-
4	-		-	-	-	-
5	54/11:9	Connector	GR-R	16/2B:5	Amplifier	GR-R
6	54/11:10	Connector	GR	16/2B:6	Amplifier	GR
7	53/523	Junction point	GR-W	16/2B:7	Amplifier	GR-W
8	53/524	Junction point	GR	16/2B:8	Amplifier	GR
9	-		-	-	-	-
10	-		-	-	-	-
11	53/525	Junction point	GR-W	16/2B:11	Amplifier	GR-W
12	53/526	Junction point	GR	16/2B:12	Amplifier	GR

54/16

5-pin green

No.	Roof harness			Rain sensor harness		
1	4/70:13	Upper Electronic Module UEM	GN	7/149:1	Rain sensor	GN
2	53/503	Junction point	BN	7/149:2	Rain sensor	BN
3	53/305	Junction point	VO-W	7/149:3	Rain sensor	VO-W
4	54/13:14	Connector	W	7/149:4	Rain sensor	W
5	-		-	-		-

54/20

12-pin black

No.	Passenger compartment harness			Rear left door harness		
1	53/523	Junction point	GR-W	16/6:1	Left-hand rear door speaker	GR-W
2	53/524	Junction point	GR	16/6:2	Left-hand rear door speaker	GR
3	4/56B:12	Central Electronic Module CEM	P	3/76:2	Left-hand rear door lock unit	P
4	4/56B:13	Central Electronic Module CEM	BL	3/76:5	Left-hand rear door lock unit	BL
5	53/446	Junction point	Y	3/85:1 53/527	Door power window switch, left rear Junction point, PCL	Y
6	2/118:1	Rear power window down relay	BL	3/85:3	Door power window switch, left rear	BL
7	53/504	Junction point	W	10/122:2	Left rear courtesy lighting, S80	W
8	2/116:1	Rear power window up relay	GN-BN	3/85:5	Door power window switch, left rear	GN-BN
9	54/40:4	Connector	VO	3/76:8 2/138:1	Left-hand rear door lock unit Deadlock relay, left-hand rear door	VO
10	54/40:3	Connector	GR	3/76:6	Left-hand rear door lock unit	GR
11	54/40:2	Connector	Y	3/76:4	Left-hand rear door lock unit	Y
12	53/500	Junction point	SB	53/531	Junction point	SB

Connectors

54/21 - 54/24

54/21

12-pin black

No.	Passenger compartment harness			Rear right door harness		
1	53/525	Junction point	GR-W	16/5:1	Right-hand rear door speaker	GR-W
2	53/526	Junction point	GR	16/5:2	Right-hand rear door speaker	GR
3	4/56C:18	Central Electronic Module CEM	P	3/77:2	Right-hand rear door lock unit	P
4	4/56C:3	Central Electronic Module CEM	BL	3/77:5	Right-hand rear door lock unit	BL
5	53/446	Junction point	Y	3/86:1 53/528	Rear right door power window switch Junction point, PCL	Y
6	2/119:1	Right rear power window down relay	BL	3/86:3	Rear right door power window switch	BL
7	53/504	Junction point	W	10/123:2	Right rear courtesy lighting, S80	W
8	2/117:1	Right rear power window up relay	GN-BN	3/86:5	Rear right door power window switch	GN-BN
9	54/43:4	Connector	VO	3/77:8 2/139:1	Right-hand rear door lock unit Deadlock relay, right-hand rear door	VO
10	54/43:3	Connector	GR	3/77:6	Right-hand rear door lock unit	GR
11	54/43:2	Connector	Y	3/77:4	Right-hand rear door lock unit	Y
12	53/501	Junction point	SB	53/532	Junction point	SB

54/24

13-pin black

No.	Passenger compartment harness			Front left seat harness		
1	11C/7:2	Fuse in passenger compartment fuse box	BL-R	9/12:1	Left seat heater	-
2	4/56B:11	Central Electronic Module CEM	Y-GR	9/12:2	Left seat heater	-
3	53/500 4/52:B4	Junction point Power Seat Module (PSM), LHD	SB	9/12:5	Left seat heater	-
4	4/9A:25/25	Control module, Supplemental Restraint System (SRS)	VO	3/93:1	Switch, left-hand seat belt buckle	-
5	4/9A:26/26	Control module, Supplemental Restraint System (SRS)	OR-SB	3/93:2	Switch, left-hand seat belt buckle	-
6	-	-	-	-	-	-
7	4/9A:4/4	Control module, Supplemental Restraint System (SRS)	OR	8/51:1	Front left side airbag igniter	BL
8	4/9A:3/3	Control module, Supplemental Restraint System (SRS)	BL-OR	8/51:2	Front left side airbag igniter	BN
9	16/60:5	Phone Module (PHM), LHD	GR-R	16/78:1	Speaker, mobile telephone	GR-R
10	16/60:4	Phone Module (PHM), LHD	GR	16/78:2	Speaker, mobile telephone	GR
11	11C/4:2	Fuse in passenger compartment fuse box, RHD	R	3/27A:1	Power seat module, passenger	-
12	11C/14:2	Fuse in passenger compartment fuse box	VO	3/27A:2	Power seat module, passenger	-
13	53/500	Junction point, RHD	SB	3/27A:3	Power seat module, passenger	-

54/25

13-pin black

No.	Passenger compartment harness		Front right seat harness		
1	11C/8:2	Fuse in passenger compartment fuse box, V70	BL-R	9/13:1	Right seat warmer
2	4/56C:4	Central Electronic Module CEM	Y-GR	9/13:2	Right seat warmer
3	53/501 4/52B:4	Junction point Power Seat Module (PSM), RHD	SB	9/13:5	Right seat warmer
4	4/9C:25/81	Control module, Supplemental Restraint System (SRS)	VO	3/94:1	Switch, right-hand seat belt buckle
5	4/9C:26/82	Control module, Supplemental Restraint System (SRS)	OR-SB	3/94:2	Switch, right-hand seat belt buckle
6	-	-	-	-	-
7	4/9C:4/60	Control module, Supplemental Restraint System (SRS)	OR	8/52:1	Front right side airbag igniter
8	4/9C:3/59	Control module, Supplemental Restraint System (SRS)	BL-OR	8/52:2	Front right side airbag igniter
9	16/60:5	Phone Module (PHM), RHD	GR-R	16/78:1	Speaker, mobile telephone
10	16/60:4	Phone Module (PHM), RHD	GR	16/78:2	Speaker, mobile telephone
11	11C/4:2	Fuse in passenger compartment fuse box, LHD	R	3/27A:1	Power passenger seat module
12	11C/14:2	Fuse in passenger compartment fuse box, LHD	VO	3/27A:2	Power passenger seat module
13	53/501	Junction point, LHD	SB	3/27A:3	Power passenger seat module

54/32

3-pin light gray

No.	Cargo compartment harness		Rear left angle sensor harness		
1	4/58B:10	Rear Electronic Module (REM)	GN-R	7/120:5	Rear left angle sensor
2	4/58B:8	Rear Electronic Module (REM)	GR	7/120:4	Rear left angle sensor
3	4/58B:6	Rear Electronic Module (REM)	BN-W	7/120:1	Rear left angle sensor

54/34

4-pin light gray

No.	Passenger compartment harness		Fuel leakage pump harness		
1	54/3LC:1	Connector	GN-GR	6/67:4	Pump, fuel leakage control
2	2/143:3	Relay, fuel leakage control	GN-R	6/67:2	Pump, fuel leakage control
3	54/3LA:4	Connector	GN	6/67:3	Pump, fuel leakage control
4	54/3LB:4	Connector	BL-SB	6/67:1	Pump, fuel leakage control

Connectors

54/35 - 54/40B

54/35

4-pin light gray

No.	Cargo compartment harness		Heated fuel filter harness		
1	2/142:4	Relay, preheated fuel filter	Y	8/85:1 54/35:2	Thermostatic switch, fuel filter Connector
2	4/58D:16	Rear Electronic Module (REM)	SB	8/85:2 54/35:1	Thermostatic switch, fuel filter Connector
3	2/142:1	Relay, preheated fuel filter	BL	9/38:1 8/85:1	Electrically heated fuel filter Thermostatic switch, fuel filter
4	53/604	Junction point	SB	9/38:2 8/85::2	Electrically heated fuel filter Thermostatic switch, fuel filter

54/40

14-pin light gray

No.	Passenger compartment harness		Cargo compartment harness		
1	11C/30:2	Fuse in passenger compartment fuse box	W	20/28:3	Shunt, position/parking light REM
2	54/20:11	Connector	Y	53/627	Junction point
3	54/20:10	Connector	GR	2/112:1	Unlocking relay, left-hand rear
4	54/20:9	Connector	VO	2/115:1	Relay, deadlock, rear doors
5	53/435	Junction point	GN	53/664	Junction point
6	53/436	Junction point	W	53/663	Junction point
7	20/32:2	Shunt, indicator CEM, left	GN	10/18A:2 10/18:5	Rear left lamp housing, S60 Rear left lamp housing, S80
8	11C/31:2	Fuse in passenger compartment fuse box	GR	53/609	Junction point
9	-	-	-	-	-
10	-	-	-	-	-
11	-	-	-	-	-
12	11C/6:2	Fuse in passenger compartment fuse box	BL-R	2/140:3	Relay CNG/LPG
13	-	-	-	-	-
14	54/74:1	Connector, AWD	BL	11D/17:2	Fuse in cargo compartment fuse box

54/40B

1-pin black

	Passenger compartment harness		Cargo compartment harness	
1	16/16:1	Window antenna amplifier, left	R	2/82:3 Relay, heated rear window

54/43

14-pin light gray

No.	Passenger compartment harness		Cargo compartment harness		
1	-	-	-	-	-
2	54/21:11	Connector	Y	53/627	Junction point
3	54/21:10	Connector	GR	2/114:1	Unlocking relay, rear right
4	54/21:9	Connector	VO	2/115:1	Relay, deadlock, rear doors
5	6/33:3	Fuel pump	GN	4/58A:2	Rear Electronic Module (REM)
6	6/33:1	Fuel pump	BL	4/58A:8	Rear Electronic Module (REM)
7	20/34:2	Shunt, indicator CEM, right	GN-W	10/17A:2 10/17:5	Rear right lamp housing, S60 Rear right lamp housing, S80
8	11C/20:2	Fuse in passenger compartment fuse box	BL	4/58F:1	Rear Electronic Module (REM)
9	-	-	-	-	-
10	-	-	-	-	-
11	4/56C:5	Central Electronic Module CEM	P	54/50:1	Connector
12	6/33:2	Fuel pump	BN	4/58A:10 53/608	Rear Electronic Module (REM) Junction point, CNG/LPG
13	4/56B:6	Central Electronic Module CEM	GN-Y	4/58A:4	Rear Electronic Module (REM)
14	-	-	-	-	-

54/50

10-pin light gray

No.	Cargo compartment harness		Trunk lid/tailgate harness		
1	54/43:11	Connector	P	3/78:1	Trunk lid lock unit
2	-	-	-	-	-
3	2/67:1	Trunk lid opening relay	GR-W	3/78:2	Trunk lid lock unit
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-
7	53/609	Junction point	GR	10/3:2	License plate lighting
8	4/58D:7	Rear Electronic Module (REM)	BL	10/3:1	License plate lighting
9	-	-	-	-	-
10	53/601	Junction point	SB	3/78:4 10/3:3	Trunk lid lock unit License plate lighting
					BN-R BL-BN

Connectors

54/51 - 54/54

54/51

13-pin light gray

No.	Cargo compartment harness			Towing bracket wiring	
1	11D/15:2	Fuse in cargo compartment fuse box	BL	15I feed	-
2	11D/9:2	Fuse in cargo compartment fuse box	R	30 feed	-
3	-		-	-	-
4	2/79:1	Brake light relay	Y	Brake lights	-
5	2/83:1	Trailer fog light relay	P	Rear fog light	-
6	-		-	-	-
7	31/47	Ground connection	SB	Ground connection	-
8	53/609	Junction point	GR	Right-hand parking light	-
9	10/17:5 10/17A:2	Rear right lamp housing, S80 Rear right lamp housing, S60	GN-W	Right-hand direction indicator	-
10	10/18:5 10/18A:2	Rear left lamp housing, S80 Rear left lamp housing, S60	GN	Left-hand direction indicator	-
11	20/28:3	Shunt, position/parking light REM	W	Left-hand Position light	-
12	53/615	Junction point	BL	Reversing lights	-
13	-		-	-	-

54/53

4-pin dark gray

No.	Engine harness, 6-cyl, normally aspirated			Knock sensor	
1	4/46A:46	Engine Control Module (ECM)	BN-SB	7/24:1	Front knock sensor
2	4/46A:64	Engine Control Module (ECM)	SB	7/24:2	Front knock sensor
3	4/46A:45	Engine Control Module (ECM)	BN	7/23:1	Rear knock sensor
4	4/46A:67	Engine Control Module (ECM)	Y-SB	7/23:2	Rear knock sensor

54/54

8-pin dark gray

No.	Cargo compartment harness		Fuel tank harness CNG/LPG		
1	4/58B:5	Rear Electronic Module (REM)	GR-R	7/156:1	Pressure and temperature sensor
2	4/58B:16	Rear Electronic Module (REM)	VO	7/156:2	Pressure and temperature sensor
3	4/58C:1	Rear Electronic Module (REM)	Y	7/156:3	Pressure and temperature sensor
4	4/58C:2	Rear Electronic Module (REM)	Y-GR	7/156:4	Pressure and temperature sensor
5	4/58A:2	Rear Electronic Module (REM)	GN	7/153:1	Sensor, fuel level LPG
6	53/608	Junction point	BN	7/153:2	Sensor, fuel level LPG
7	2/140:1	Relay CNG/LPG	Y-R	8/88:1 8/76:2	Solenoid, gas tan CNG rear Gas tank valve, LPG
8	53/604	Junction point	SB	8/88:2 8/76:1	Solenoid, gas tan CNG rear Gas tank valve, LPG

54/55

3-pin black

No.	Engine compartment harness		Brake pressure sensor harness		
1	4/16:19	Brake Control Module (BCM), RHD	GN-BN	7/129:1	Brake pressure sensor 2, RHD
2	4/16:20	Brake Control Module (BCM), RHD	GN-W	7/129:2	Brake pressure sensor 2, RHD
3	4/16:18	Brake Control Module (BCM), RHD	GR-W	7/129:3	Brake pressure sensor 2, RHD

54/56

3-pin black

No.	Engine compartment harness		Brake pressure sensor harness		
1	4/16:21	Brake Control Module (BCM), RHD	BL-BN	7/139:1	Brake pressure sensor 1, RHD
2	4/16:23	Brake Control Module (BCM), RHD	OR-W	7/139:2	Brake pressure sensor 1, RHD
3	4/16:22	Brake Control Module (BCM), RHD	GR-OR	7/139:3	Brake pressure sensor 1, RHD

54/57

4-pin dark gray

No.	Engine compartment harness		Automatic transmission harness		
1	4/28A:41	Transmission Control Module (TCM)	Y-SB	8/37:V	Automatic transmission
2	4/28A:59	Transmission Control Module (TCM)	Y-R	8/37:S	Automatic transmission
3	4/28A:39	Transmission Control Module (TCM)	SB	7/62:2	Output speed sensor
4	4/28A:57	Transmission Control Module (TCM)	Y	7/62:1	Output speed sensor

54/58

8-pin dark gray

No.	Engine compartment harness		Automatic transmission harness		
1	54/3LF:4	Connector	BL-Y	54/58:3	Connector
2	53/331	Junction point	BN-SB	-	-
3	4/28A:44	Transmission Control Module (TCM)	Y-GR	54/58:1	Connector
4	53/331	Junction point	BN-SB	53/356	Junction point
5	4/28A:46	Transmission Control Module (TCM)	W	8/37:F	Automatic transmission
6	4/28A:64	Transmission Control Module (TCM)	Y	8/37:G	Automatic transmission
7	4/28A:45	Transmission Control Module (TCM)	GN	8/37:H	Automatic transmission
8	4/28A:63	Transmission Control Module (TCM)	BL	8/37:J	Automatic transmission

Connectors

54/59 - 54/74

54/59

6-pin dark gray

No.	Engine compartment harness			Automatic transmission harness		
1	4/28A:50	Transmission Control Module (TCM)	GN-W	8/37:A	Automatic transmission	GN-W
2	4/28A:68	Transmission Control Module (TCM)	BN-W	8/37:B	Automatic transmission	BN-W
3	4/28A:48	Transmission Control Module (TCM)	W-SB	-	-	-
4	4/28A:47	Transmission Control Module (TCM)	R-W	-	-	-
5	4/28A:66	Transmission Control Module (TCM)	BL-W	-	-	-
6	4/28A:65	Transmission Control Module (TCM)	GR-OR	8/37:U	Automatic transmission	GR-OR

54/60

8-pin dark gray

No.	Engine compartment harness			Automatic transmission harness		
1	4/28A:51	Transmission Control Module (TCM)	BN	8/37:T	Automatic transmission	BN
2	4/28A:69	Transmission Control Module (TCM)	Y-W	-	-	-
3	4/28A:52	Transmission Control Module (TCM)	GR	8/37:C	Automatic transmission	GR
4	4/28A:70	Transmission Control Module (TCM)	VO-W	8/37:D	Automatic transmission	VO-W
5	4/28A:49	Transmission Control Module (TCM)	GN-R	-	-	-
6	4/28A:67	Transmission Control Module (TCM)	BN-SB	-	-	-
7	4/28A:37	Transmission Control Module (TCM)	BL-R	8/37:L	Automatic transmission	BL-R
8	4/28A:55	Transmission Control Module (TCM)	BL-SB	8/37:M	Automatic transmission	BL-SB

54/74

4-pin light gray

No.	Passenger compartment harness			Harness, Differential Electronic Module DEM		
1	54/40:14	Connector	BL	4/82:1	Differential Electronic Module DEM	BL-R
2	53/512	Junction point	W	4/82:8	Differential Electronic Module DEM	W
3	53/513	Junction point	GN	4/82:7	Differential Electronic Module DEM	GN
4	53/500	Junction point	SB	4/82:2	Differential Electronic Module DEM	BN

54/106

4-pin light gray

No.	Cargo compartment harness		Harness, fuel tank CNG front		
1	2/140:1	Relay CNG/LPG	Y-R	8/89:1 8/90:1	Solenoid, fuel tank CNG front left Solenoid, fuel tank CNG front right
2	53/604	Junction point	SB	8/89:2 8/90:2	Solenoid, fuel tank CNG front left Solenoid, fuel tank CNG front right
3	-		-	-	-
4	-		-	-	-

54/107

10-pin light gray

No.	Passenger compartment harness		Four-C rear harness		
1	4/84A:5	Suspension Module (SUM)	GN-GR	8/23:1	Shock absorber, Four-C, rear right
2	4/84A:4	Suspension Module (SUM)	W	8/23:2	Shock absorber, Four-C, rear right
3	4/84A:23	Suspension Module (SUM)	GR	7/120:1 7/121:1	Rear left angle sensor, Four-C/Bi-Xenon Rear right angle sensor, Four-C/Bi-Xenon
4	4/84A:14	Suspension Module (SUM)	Y	7/121:4	Rear right angle sensor, Four-C/Bi-Xenon
5	53/569	Junction point	R	7/121:5	Rear right angle sensor, Four-C/Bi-Xenon
6	4/84A:25	Suspension Module (SUM)	R-W	7/120:5	Rear left angle sensor, Four-C/Bi-Xenon
7	4/84A:28	Suspension Module (SUM)	Y-R	7/120:4	Rear left angle sensor, Four-C/Bi-Xenon
8	4/84A:2	Suspension Module (SUM)	GN-GR	8/22:1	Shock absorber, Four-C, rear left
9	4/84A:1	Suspension Module (SUM)	BL	8/22:2	Shock absorber, Four-C, rear left
10	-		-	-	-

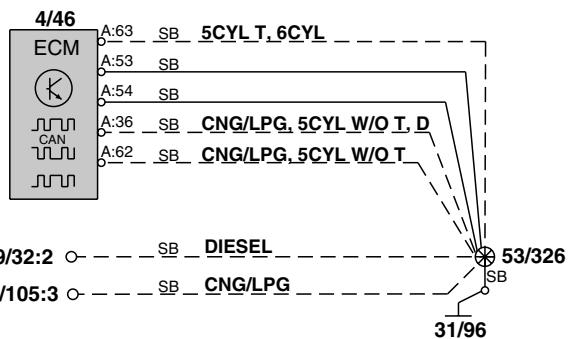
54/124

3-pin light gray

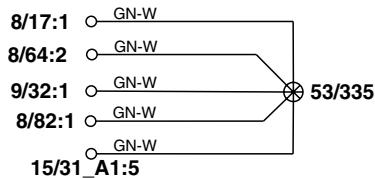
No.	Adapter wiring, fuel tank		Cargo compartment harness		
1	53/578	Junction point	BL	6/31:1	Feed pump, ejectors
2	-		-	-	-
3	-		-	-	-

Junction points
53/326 - 53/360

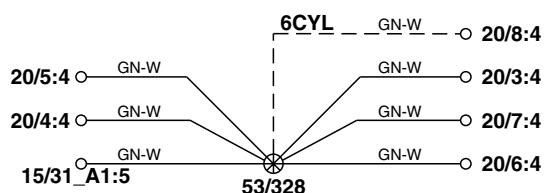
53/326



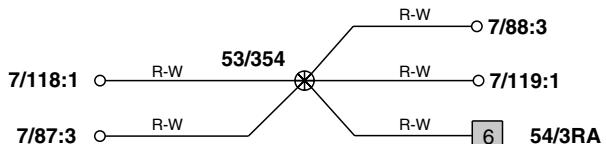
**53/335
DIESEL**



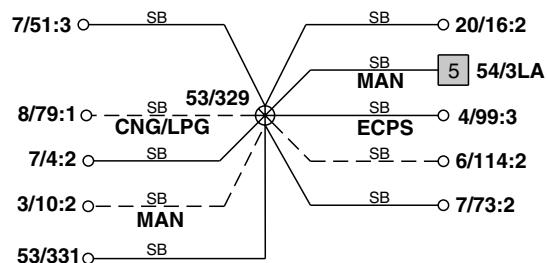
53/328



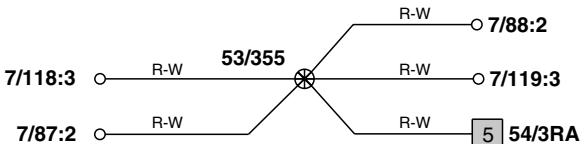
**53/354
SUM**



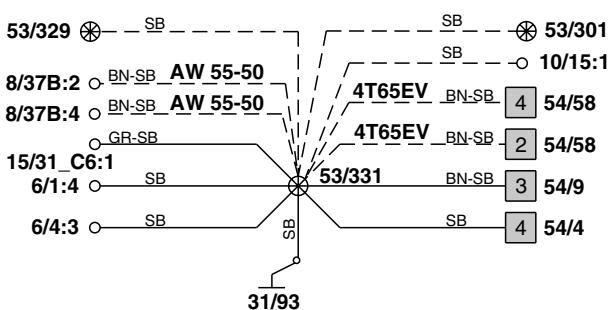
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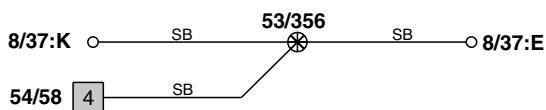
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SUM**



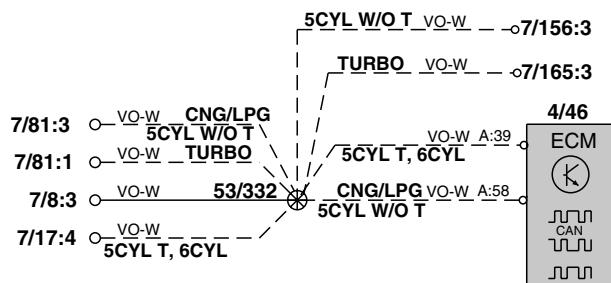
53/331



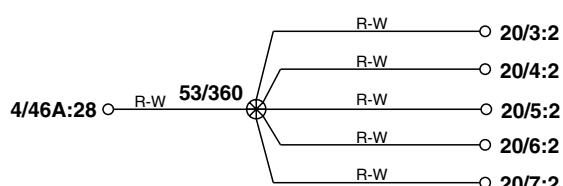
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4T65EV**



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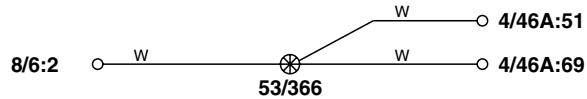
**53/360
5CYL W/O T**



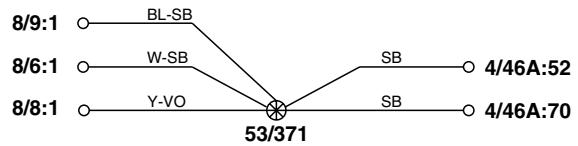
Junction points

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**53/366
CYL 1
DIESEL**



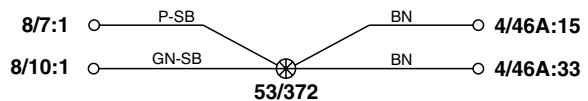
**53/371
DIESEL**



**53/367
CYL 2
DIESEL**



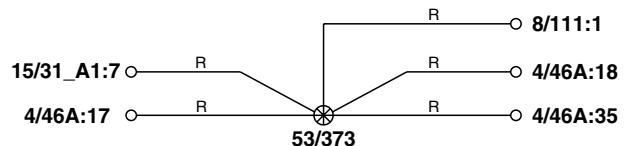
**53/372
DIESEL**



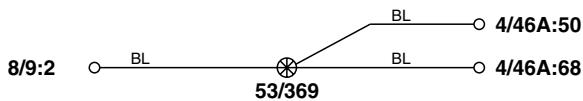
**53/368
CYL 3
DIESEL**



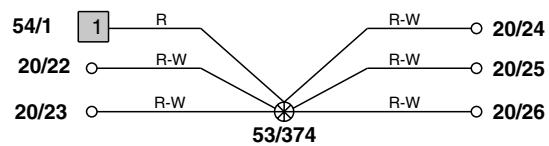
**53/373
DIESEL**



**53/369
CYL 4
DIESEL**



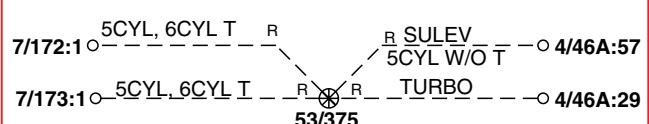
**53/374
DIESEL**



**53/370
CYL 5
DIESEL**

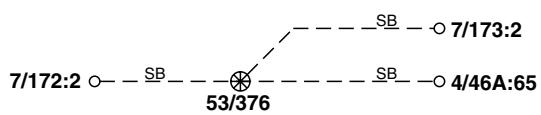


53/375

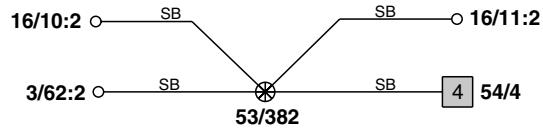


Junction points
53/376 - 53/403

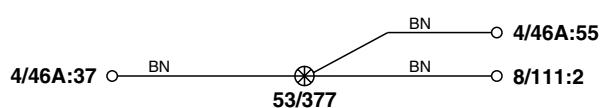
53/376



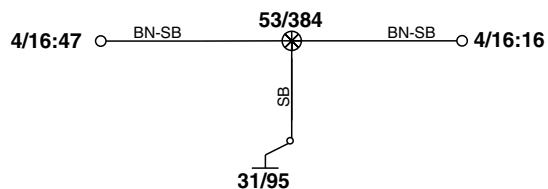
53/382



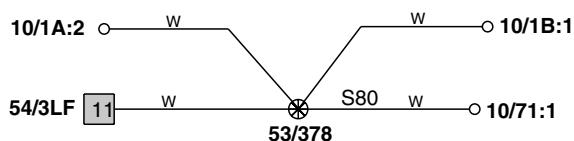
**53/377
DIESEL**



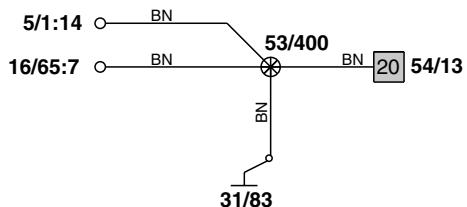
53/384



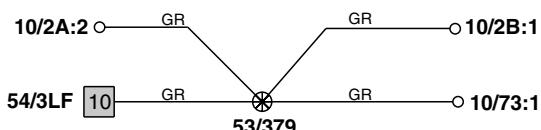
53/378



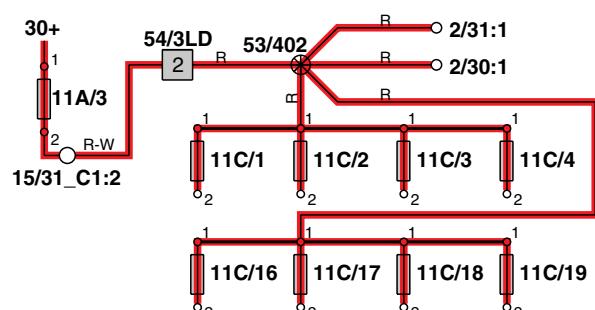
53/400



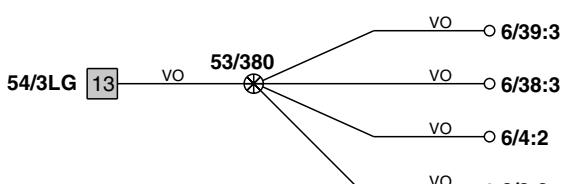
53/379



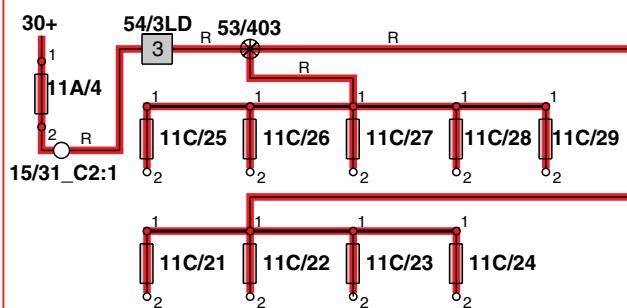
53/402



53/380



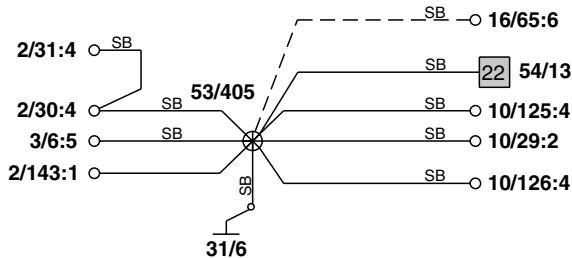
53/403



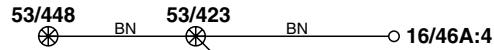
Junction points

53/405 - 53/431

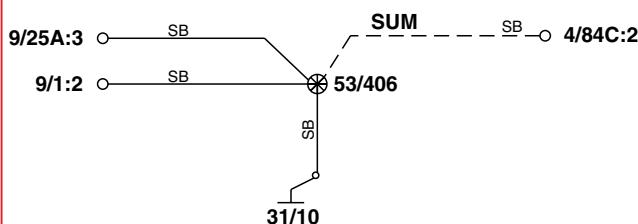
53/405



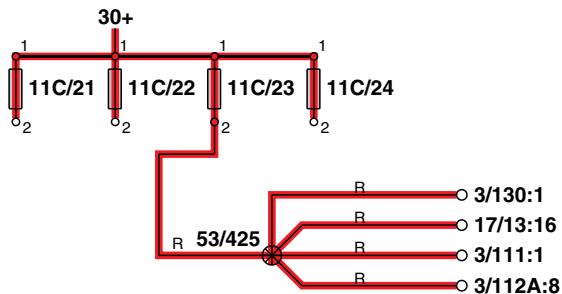
**53/423
RTI**



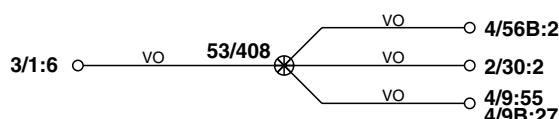
53/406



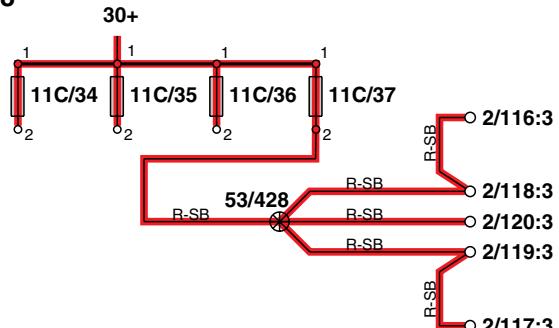
53/425



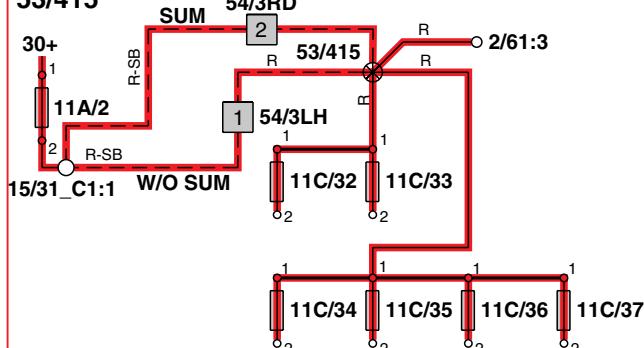
53/408



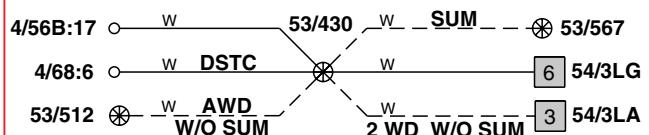
53/428



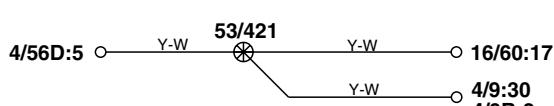
53/415



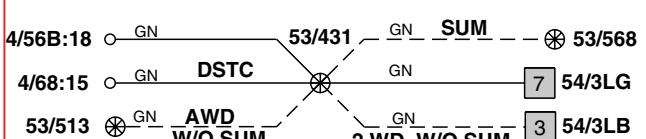
53/430



**53/421
TELE**

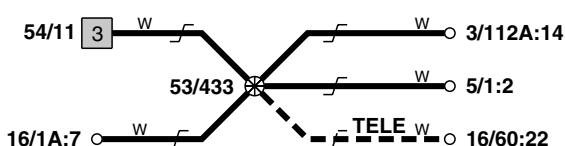


53/431

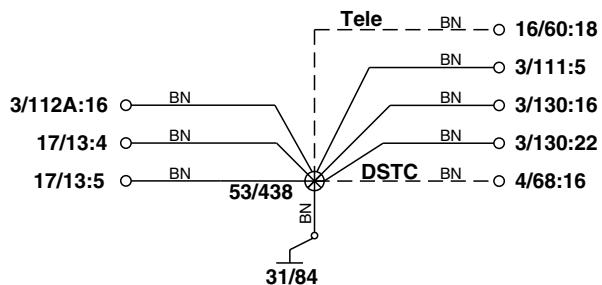


Junction points
53/433 - 53/500

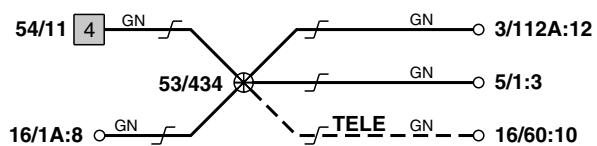
53/433



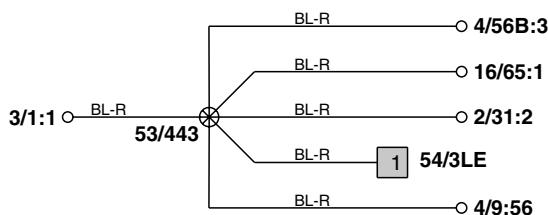
53/438



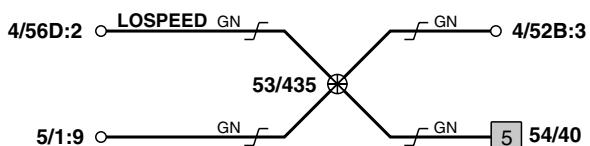
53/434



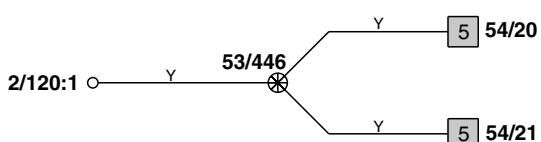
53/443



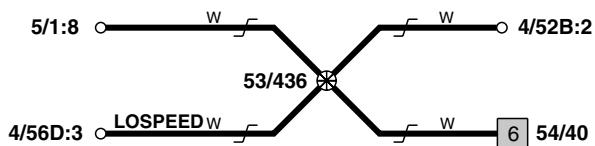
53/435



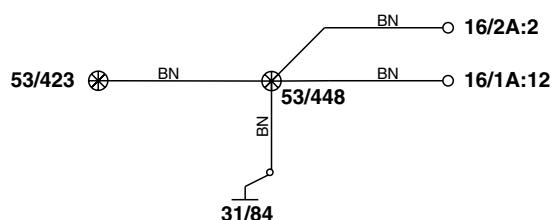
53/446



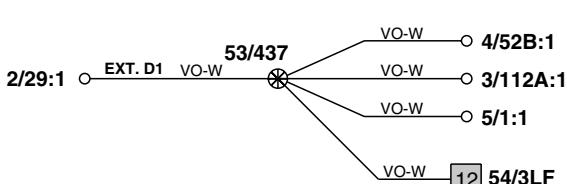
53/436



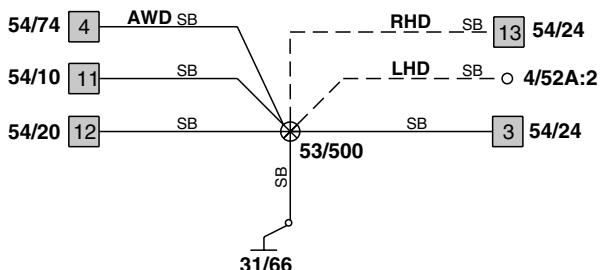
53/448



53/437



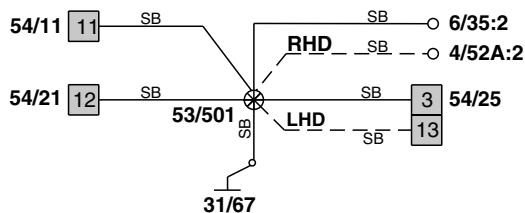
53/500



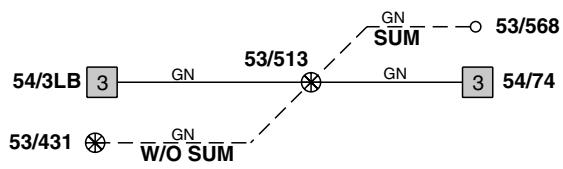
Junction points

53/501 - 53/520

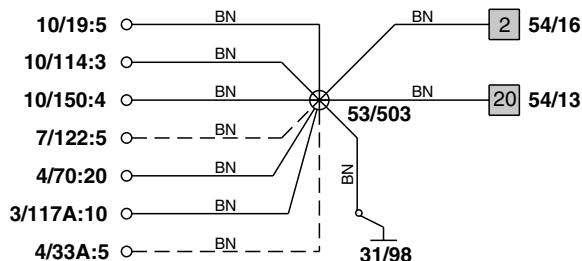
53/501



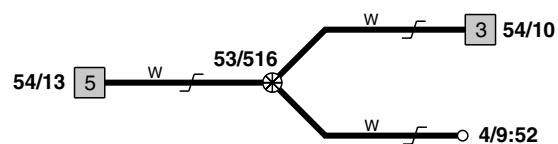
**53/513
AWD**



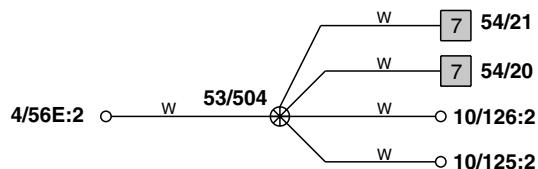
53/503



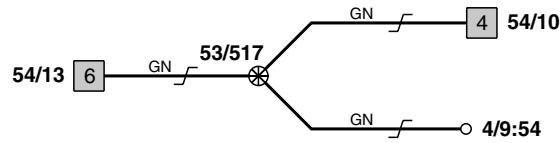
53/516



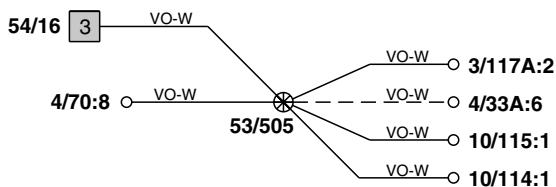
53/504



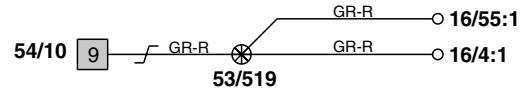
53/517



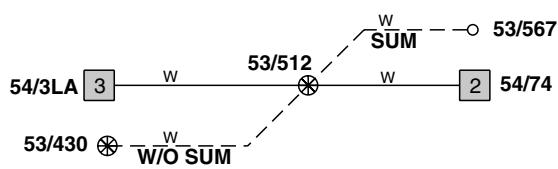
53/505



53/519



**53/512
AWD**

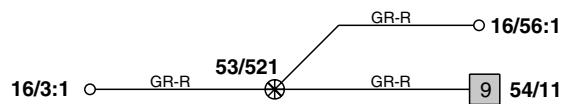


53/520

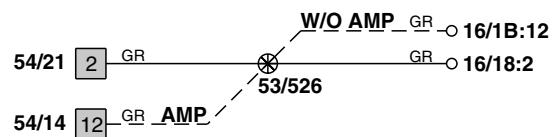


Junction points
53/521 - 53/532

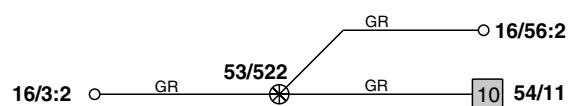
53/521



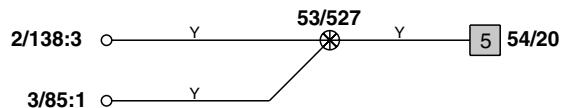
53/526



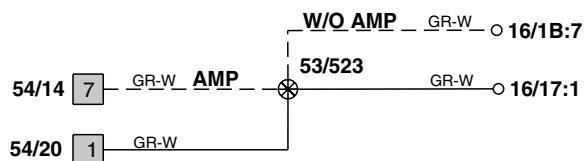
53/522



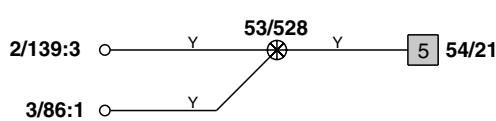
**53/527
PCL**



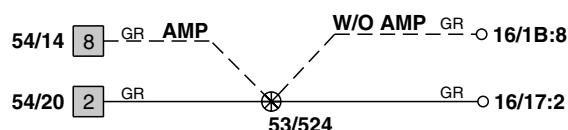
53/523



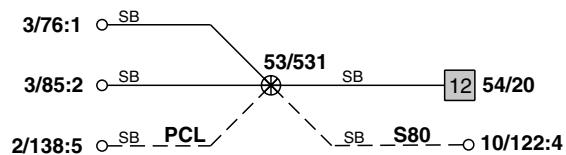
**53/528
PCL**



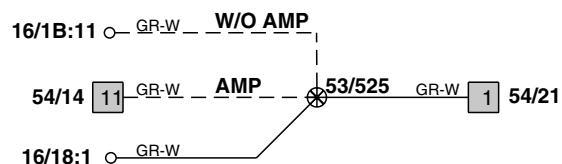
53/524



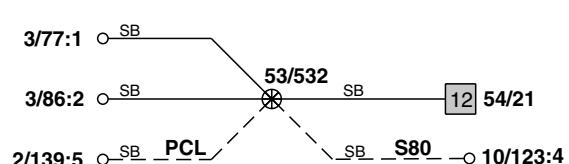
53/531



53/525



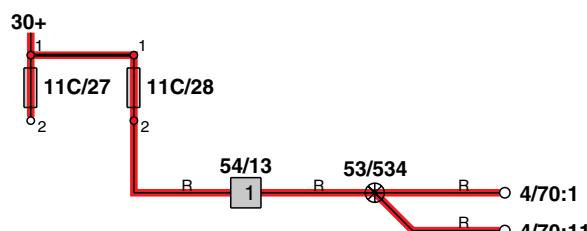
53/532



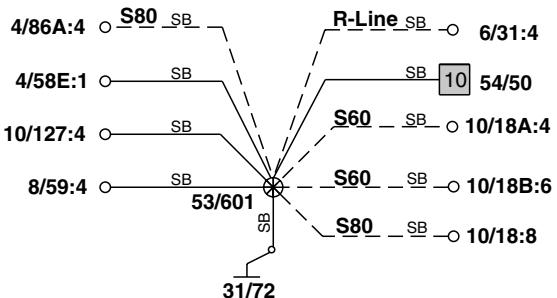
Junction points

53/534 - 53/609

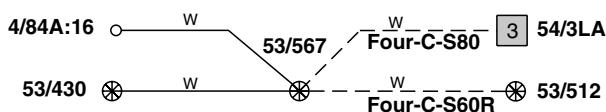
53/534



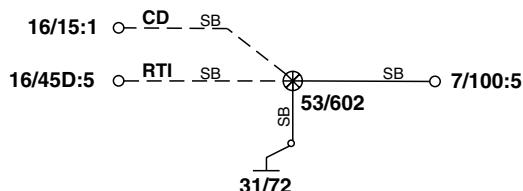
53/601



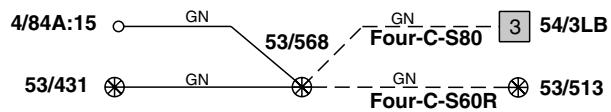
53/567



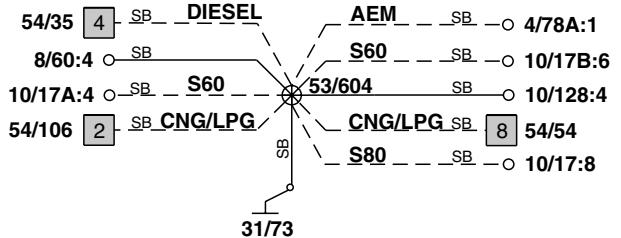
53/602



53/568



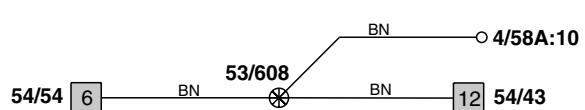
53/604



53/569



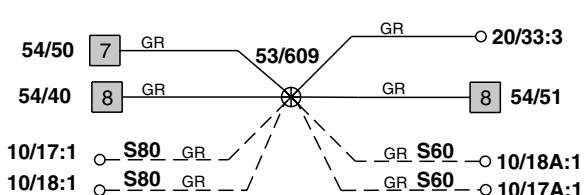
**53/608
Bi-Fuel**



53/570

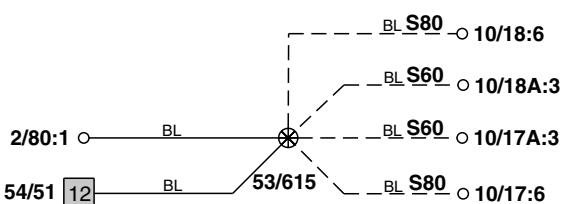


53/609

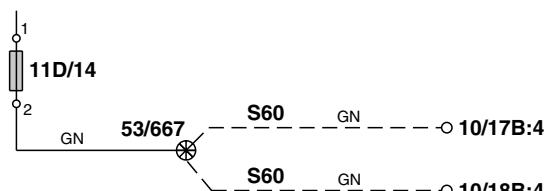


Junction points
53/615 - 53/667

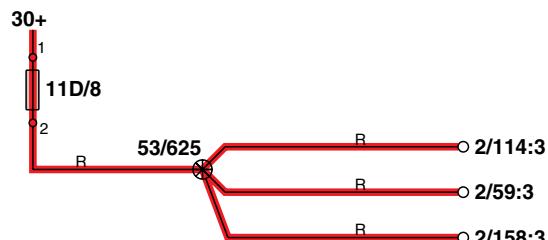
53/615



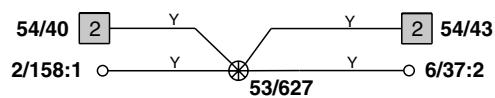
53/667



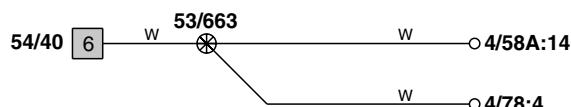
53/625



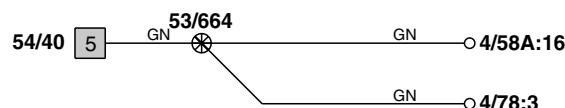
53/627



**53/663
AEM**



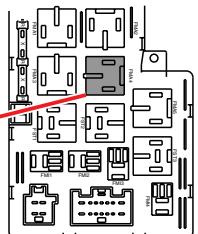
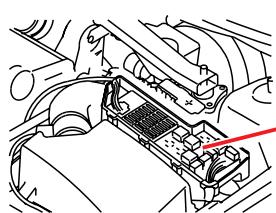
**53/664
AEM**



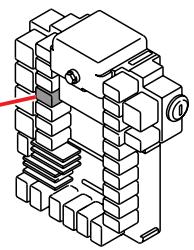
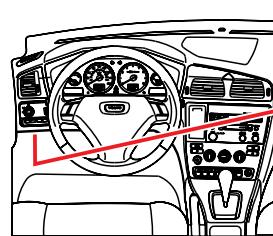
Component illustrations

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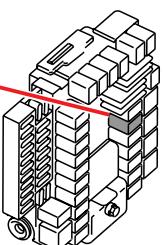
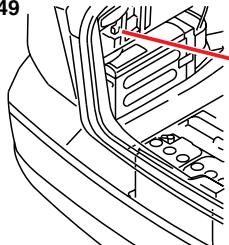
2/35



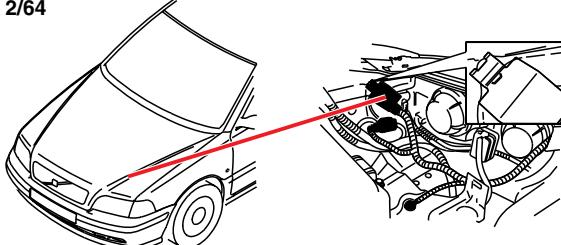
2/63



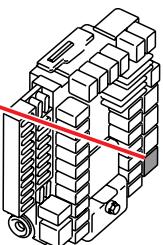
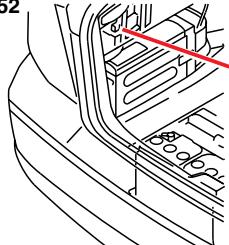
2/49



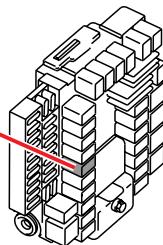
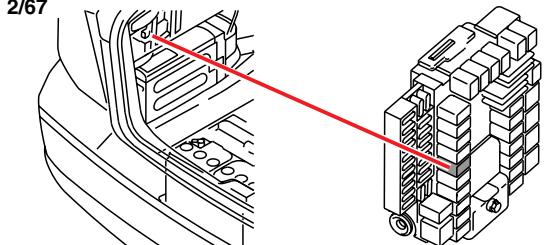
2/64



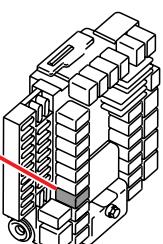
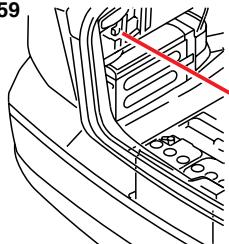
2/52



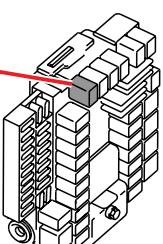
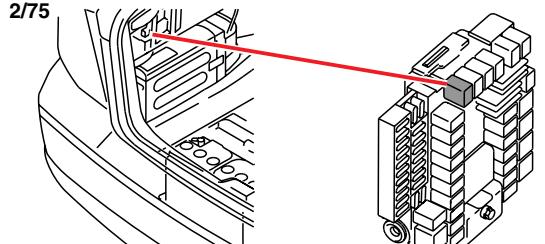
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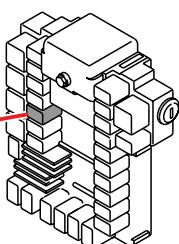
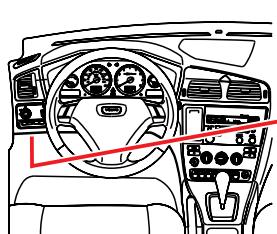
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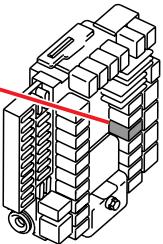
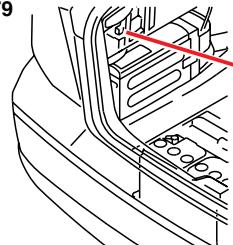
2/75



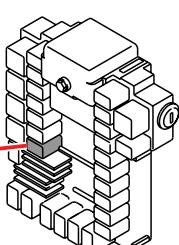
2/61



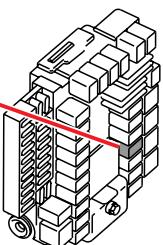
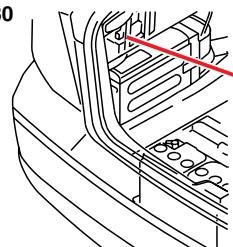
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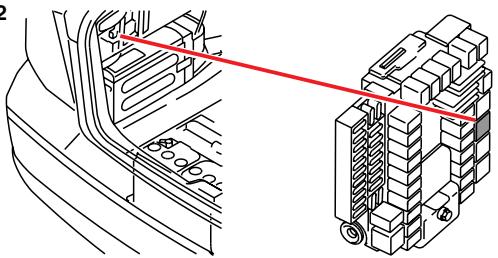
2/80



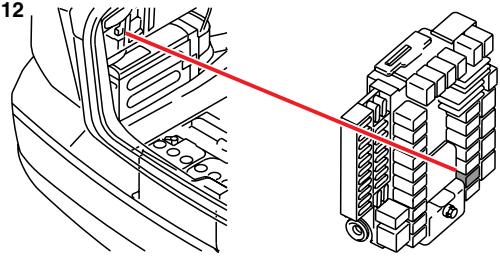
Component illustrations

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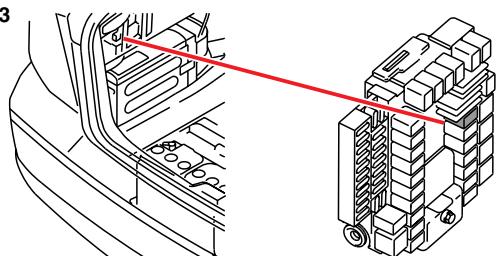
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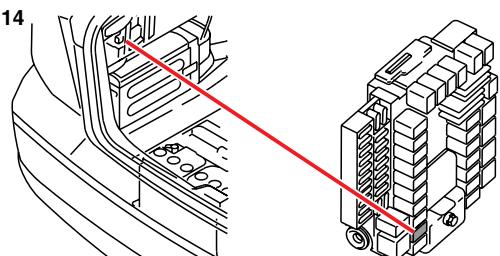
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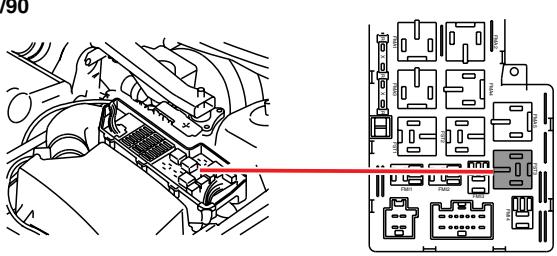
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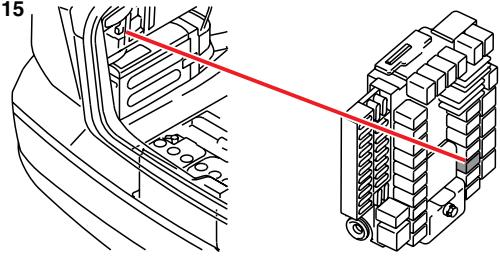
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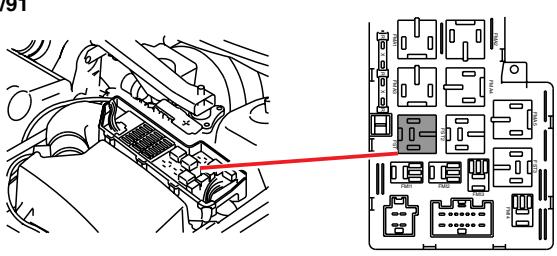
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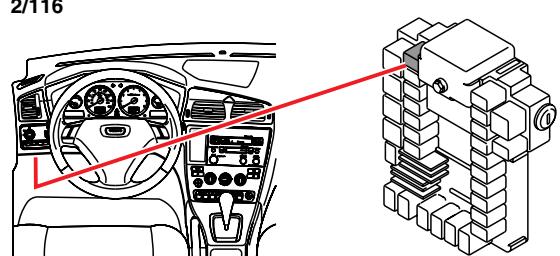
2/115



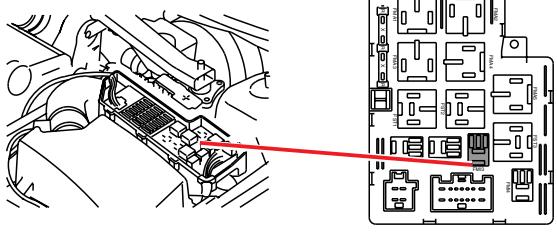
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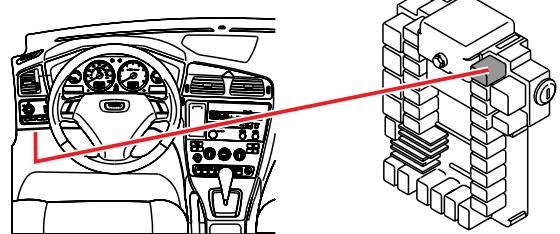
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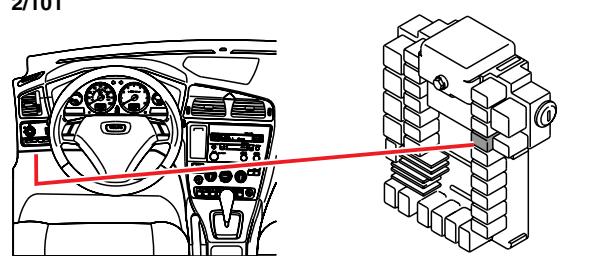
2/92



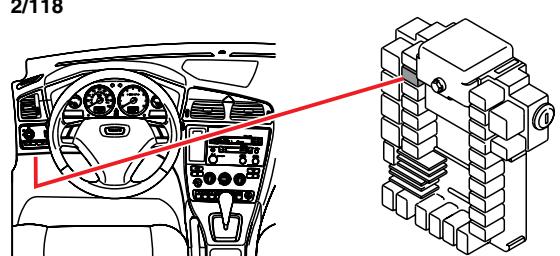
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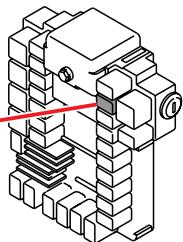
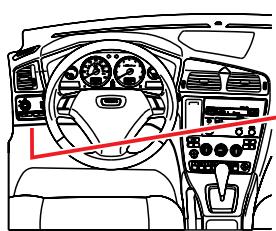
2/118



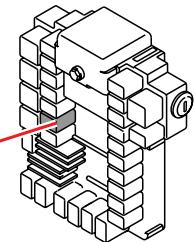
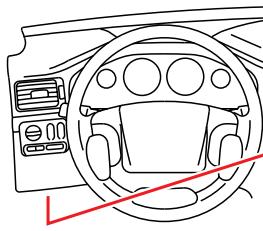
Component illustrations

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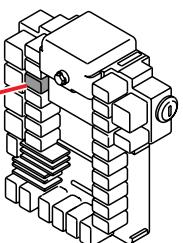
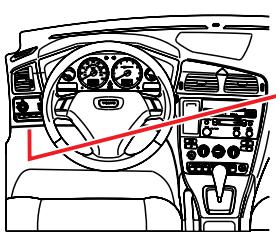
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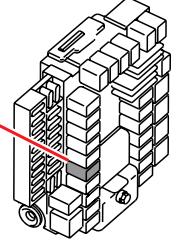
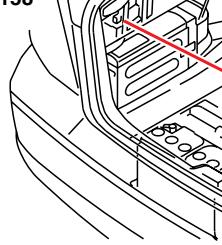
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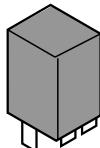
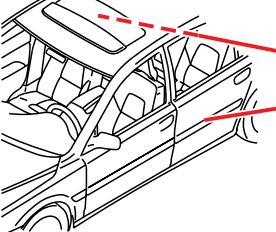
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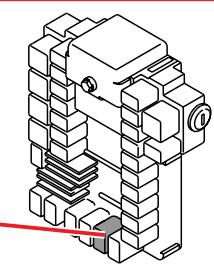
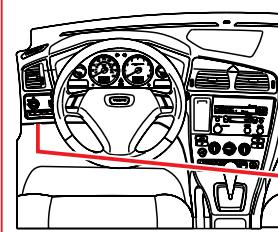
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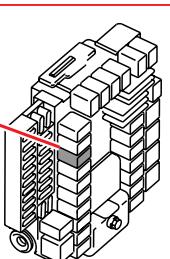
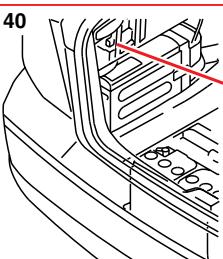
2/138-139



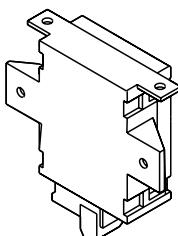
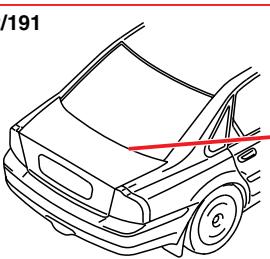
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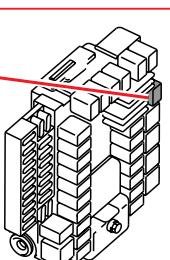
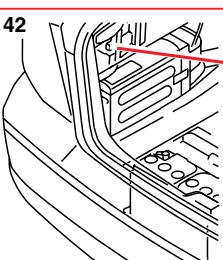
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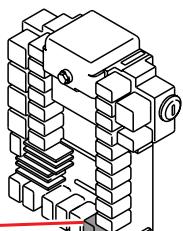
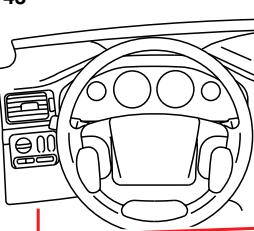
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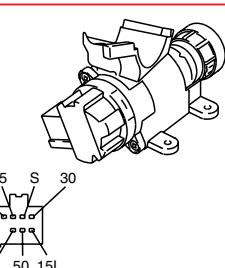
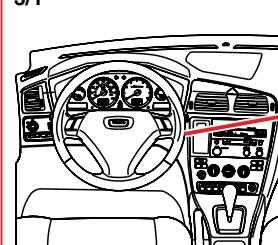
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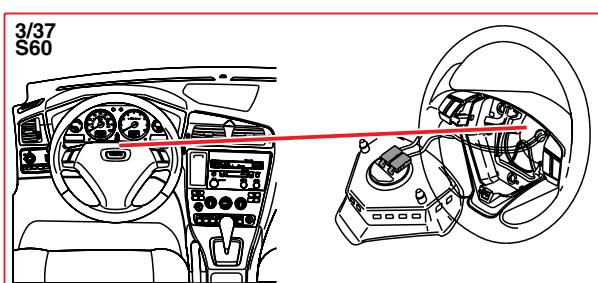
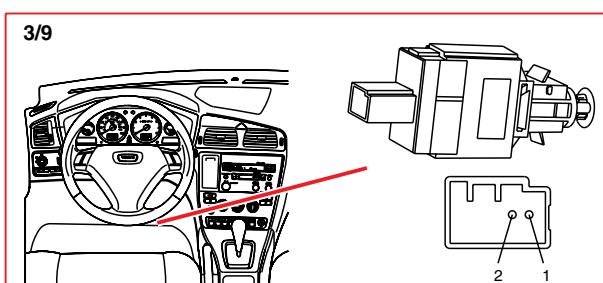
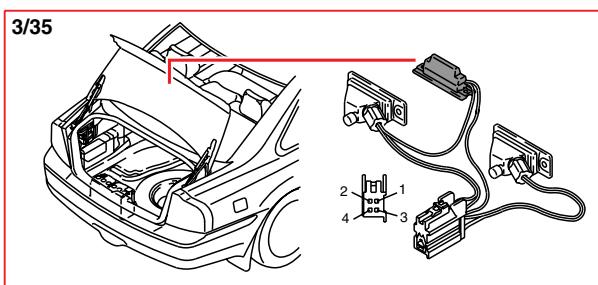
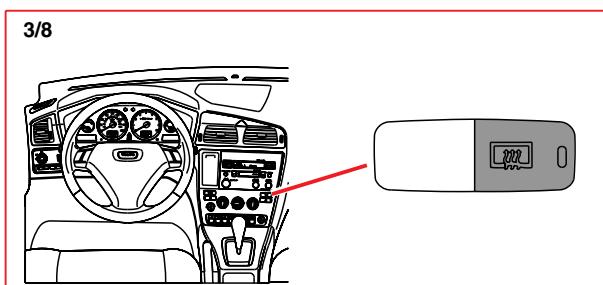
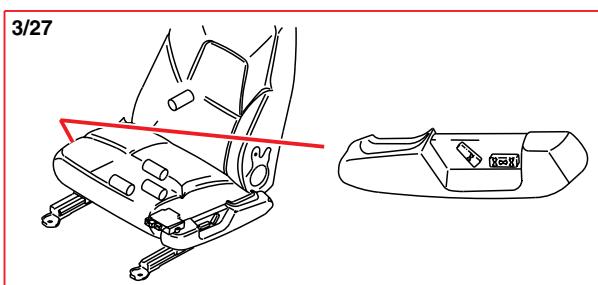
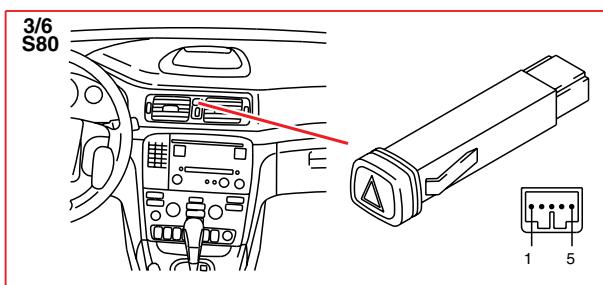
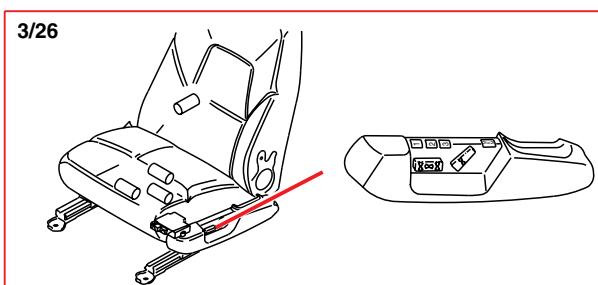
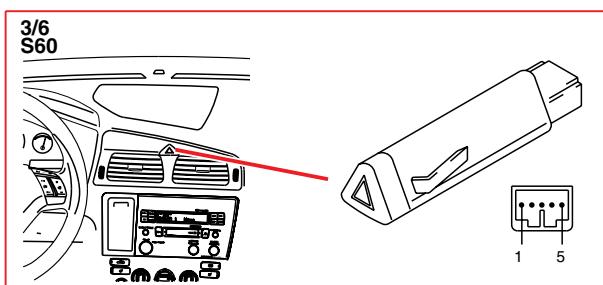
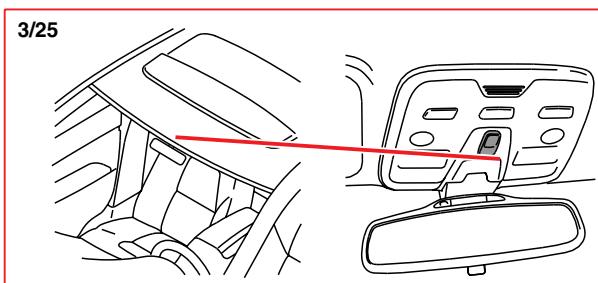
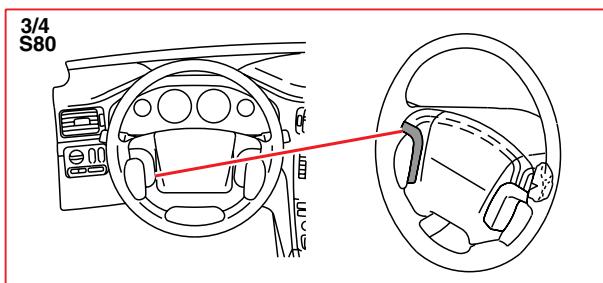
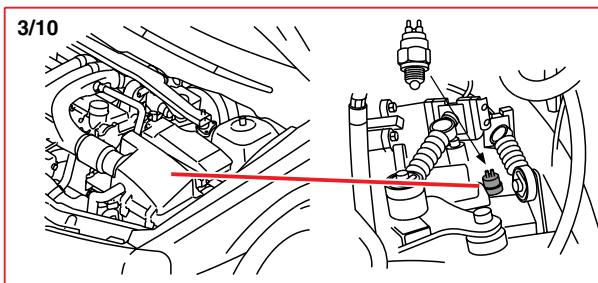
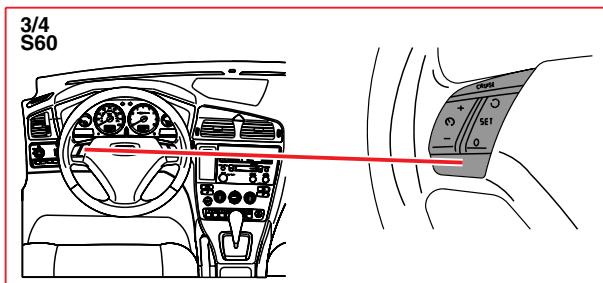
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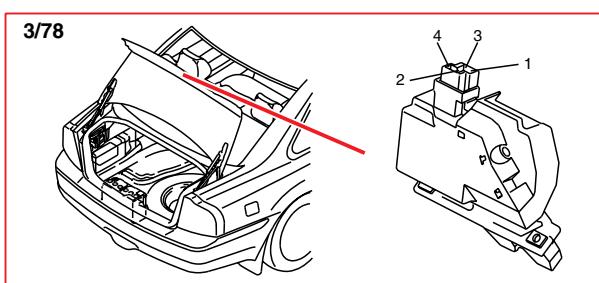
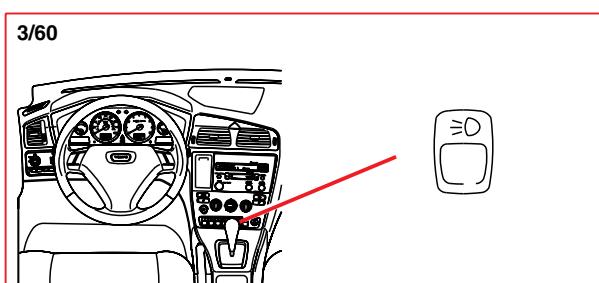
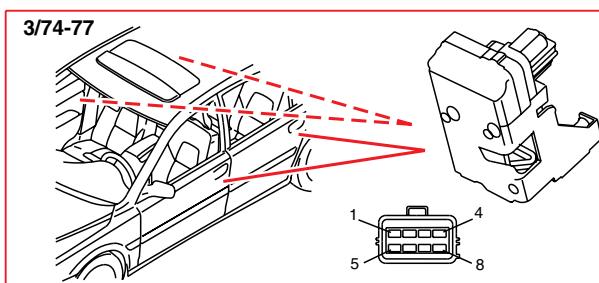
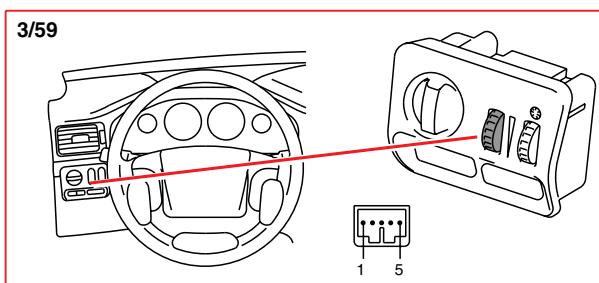
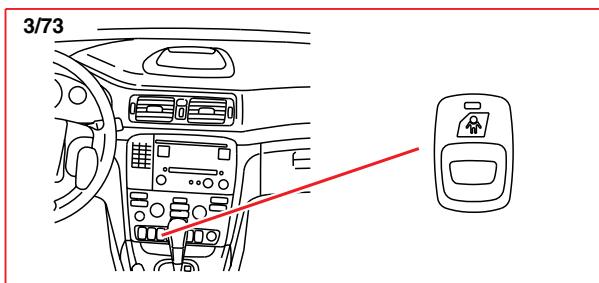
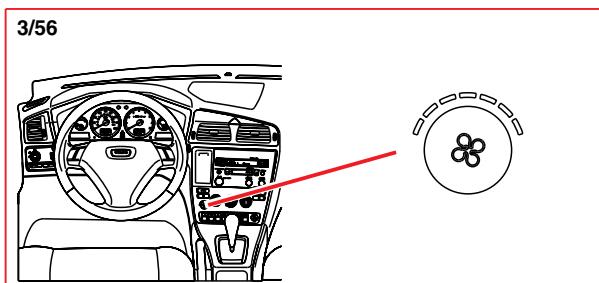
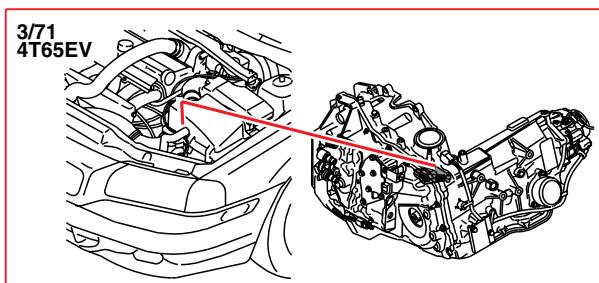
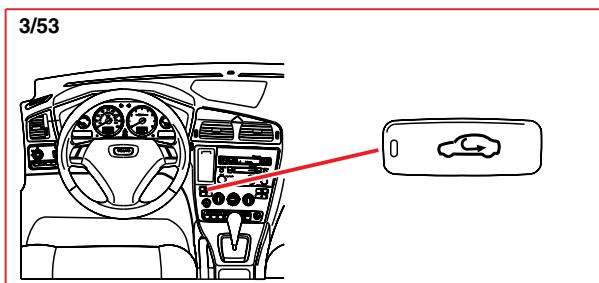
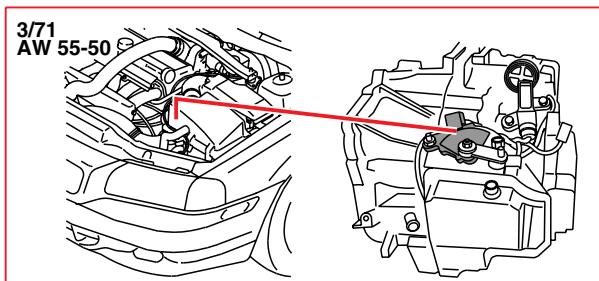
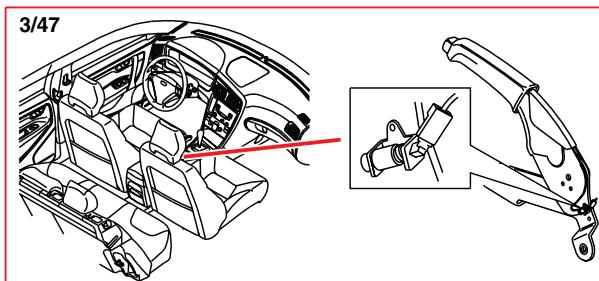
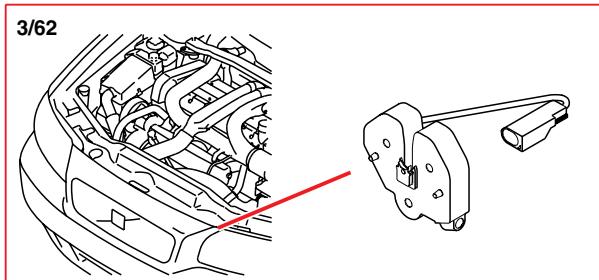
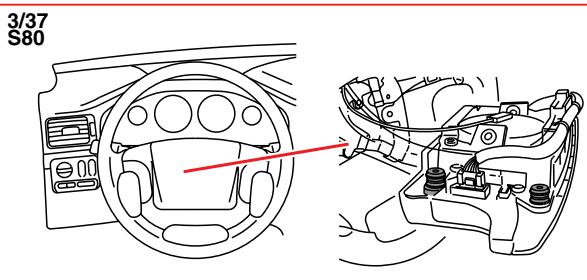


Component illustrations
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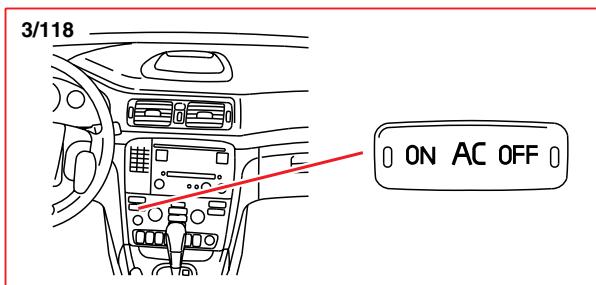
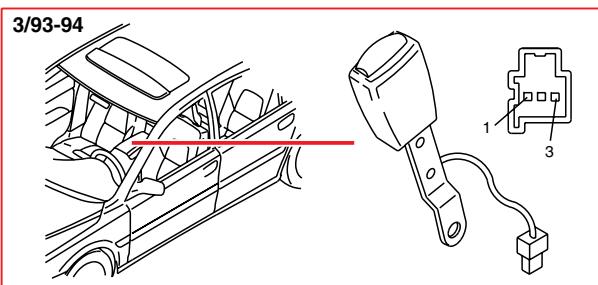
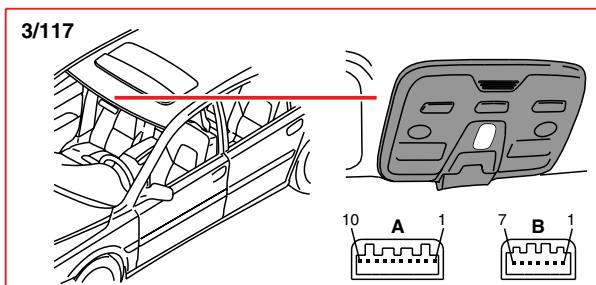
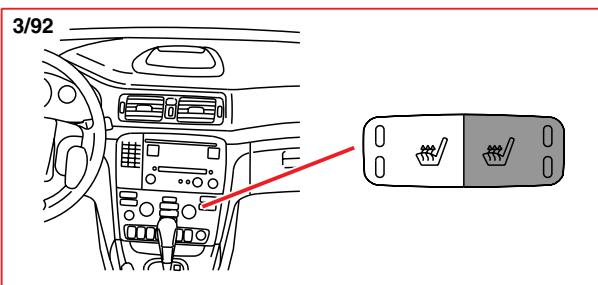
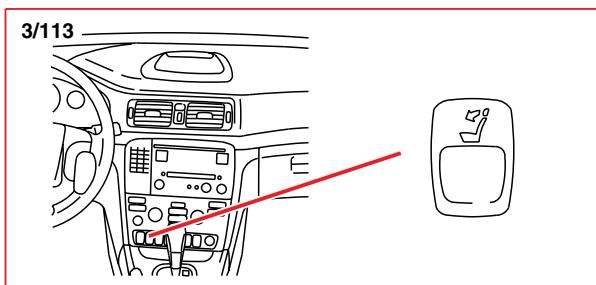
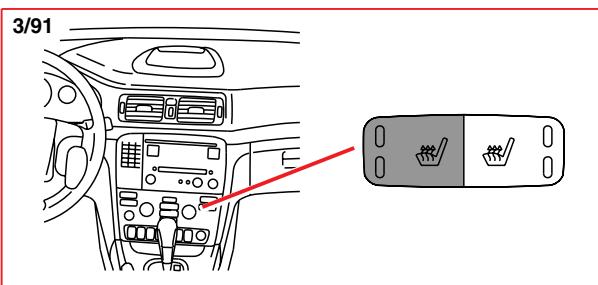
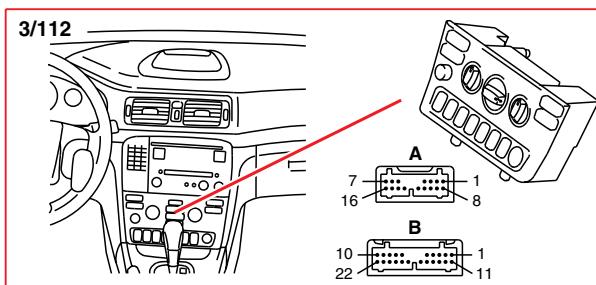
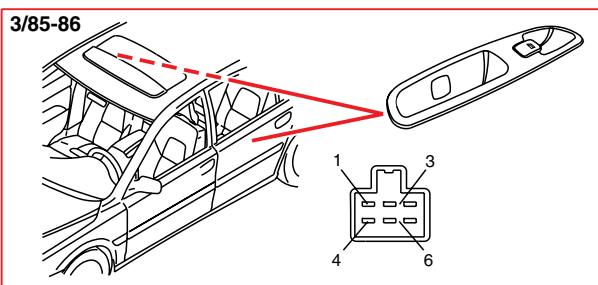
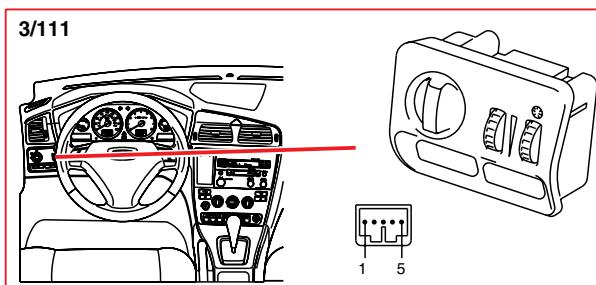
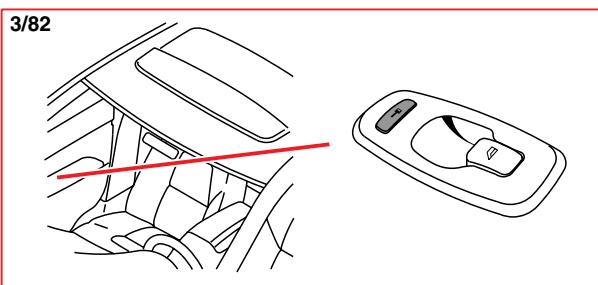
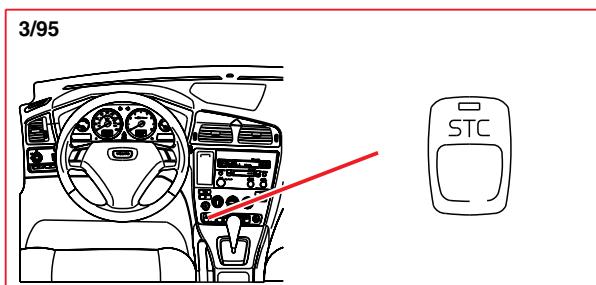
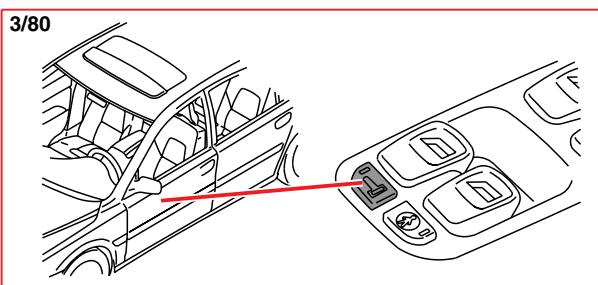
Component illustrations

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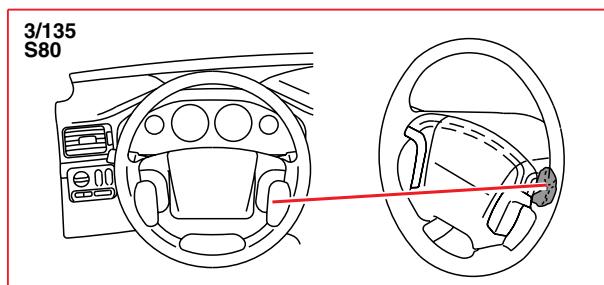
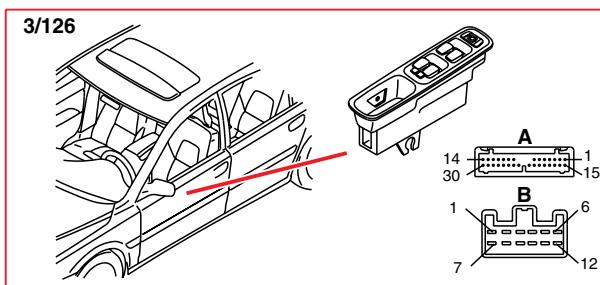
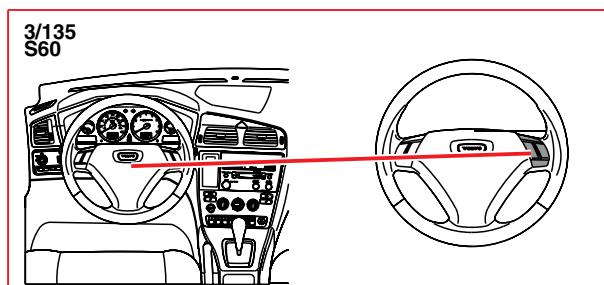
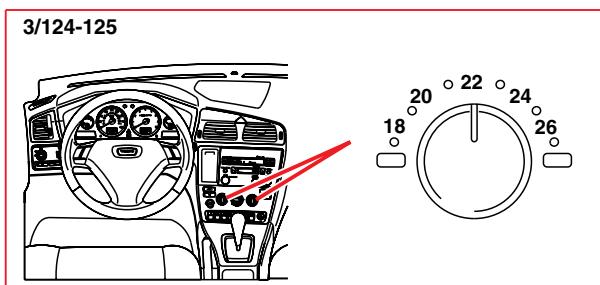
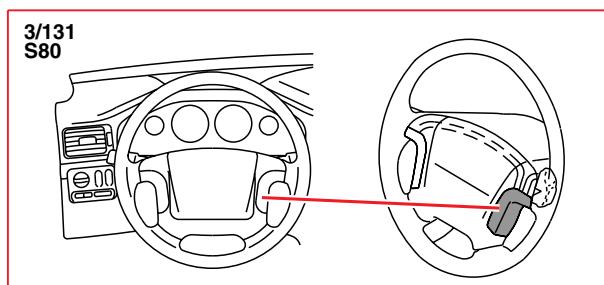
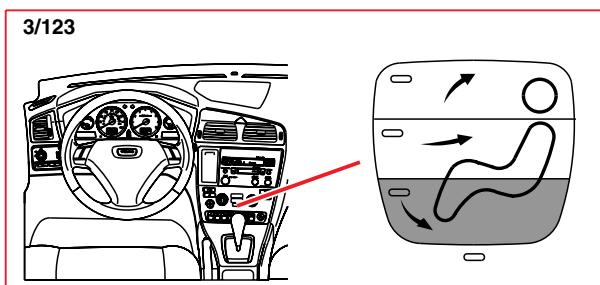
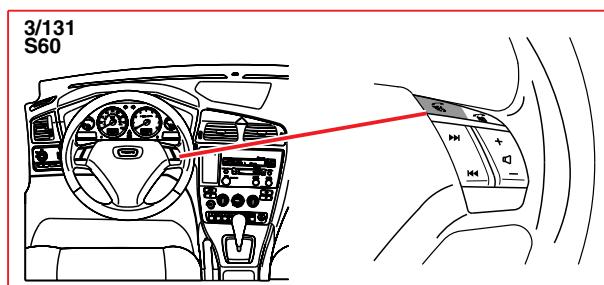
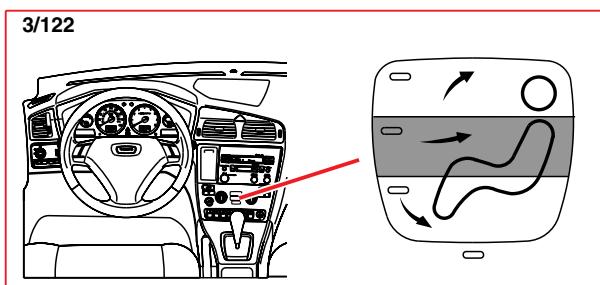
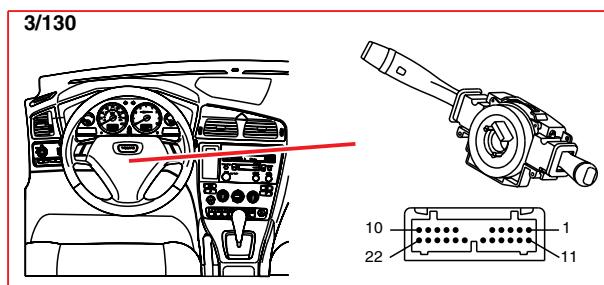
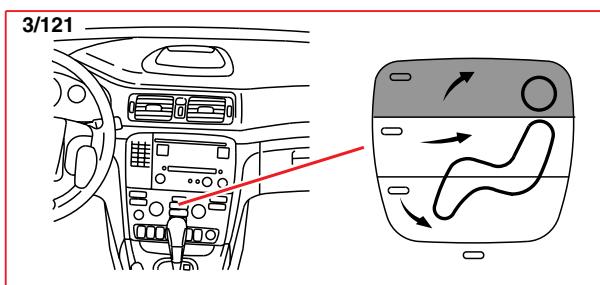
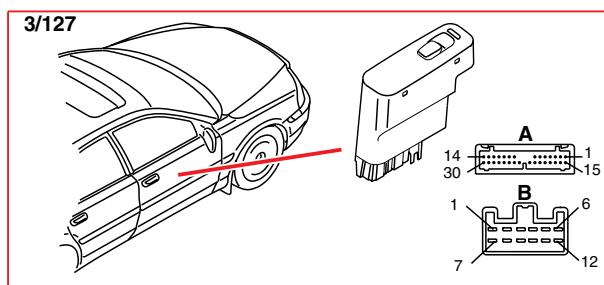
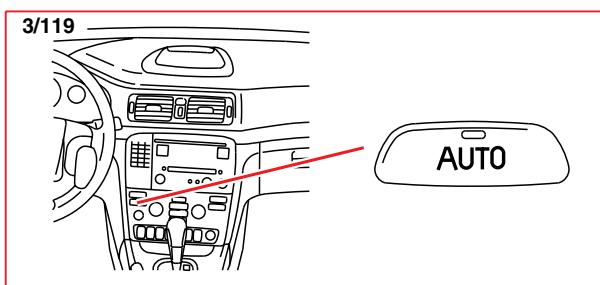
Component illustrations

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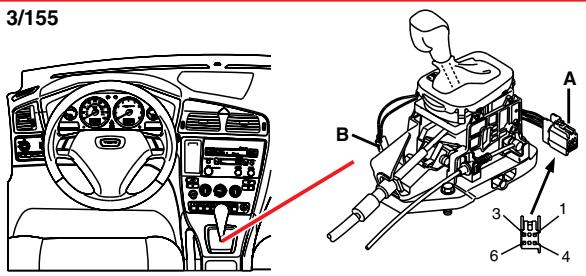


Component illustrations

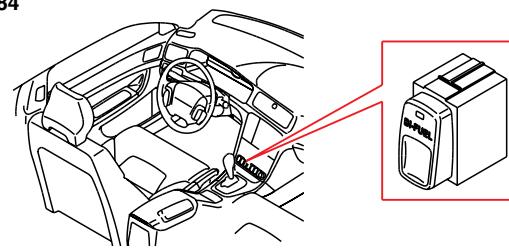
3/119 - 3/135



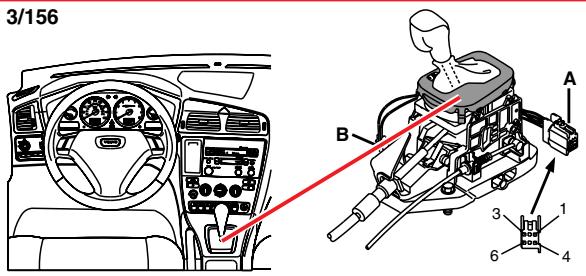
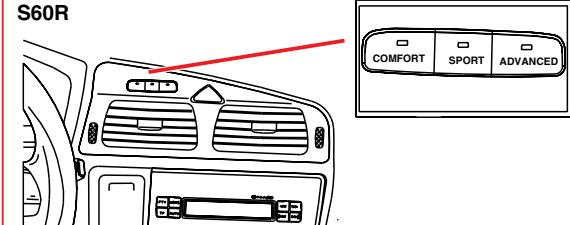
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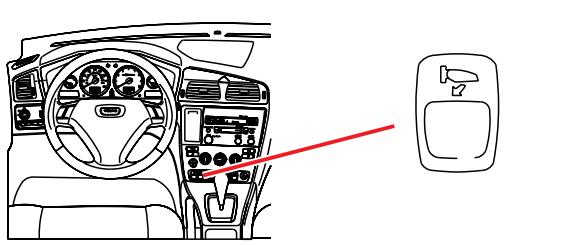
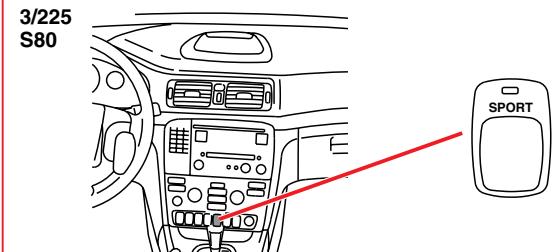
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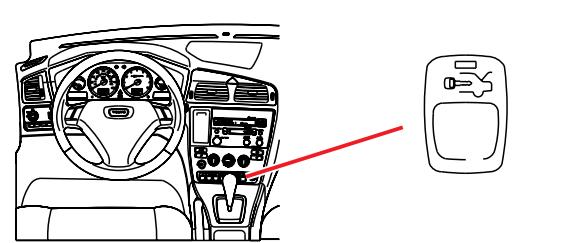
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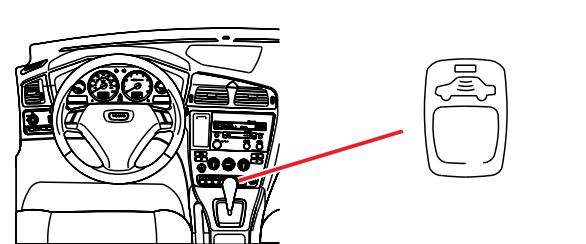
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S80

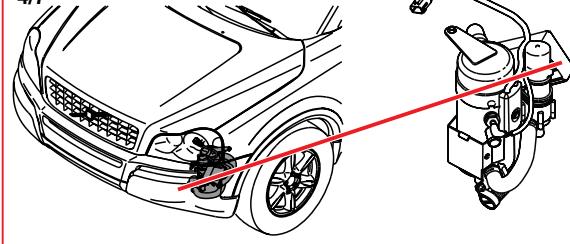
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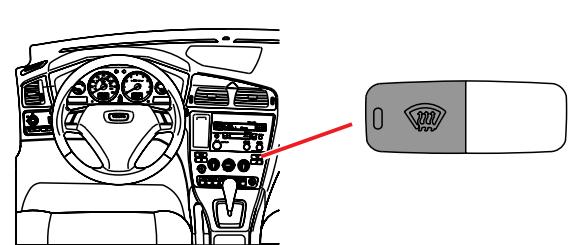
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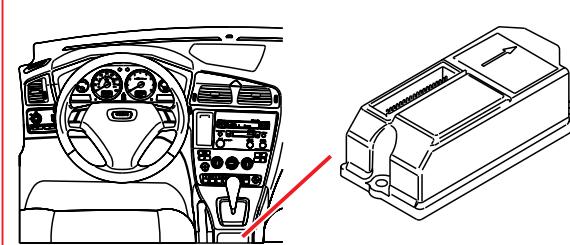
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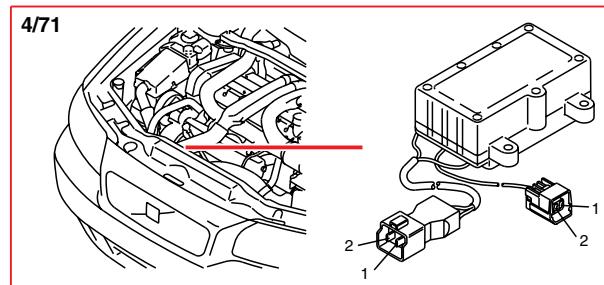
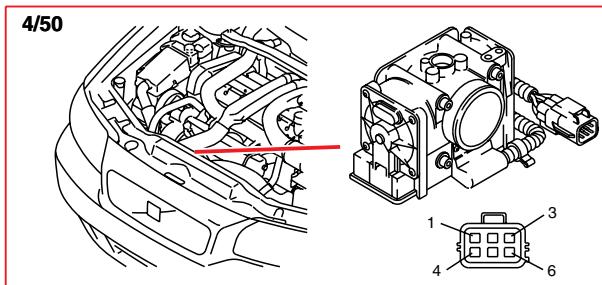
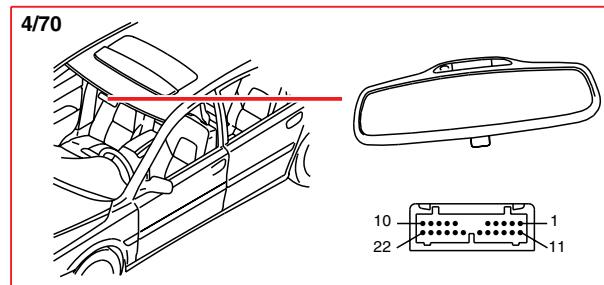
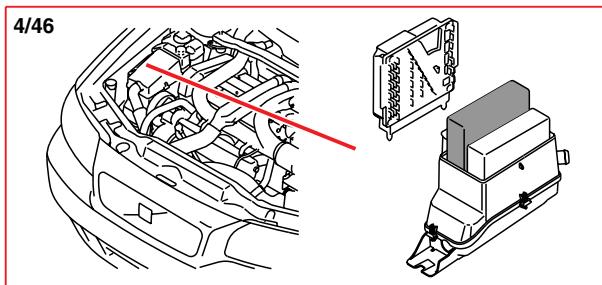
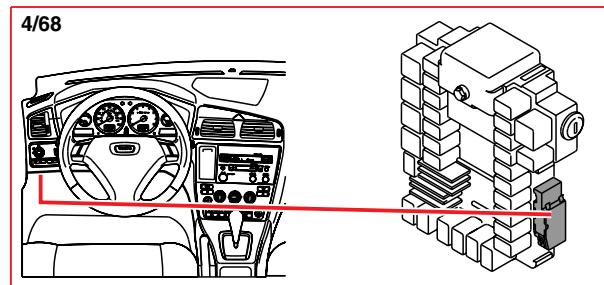
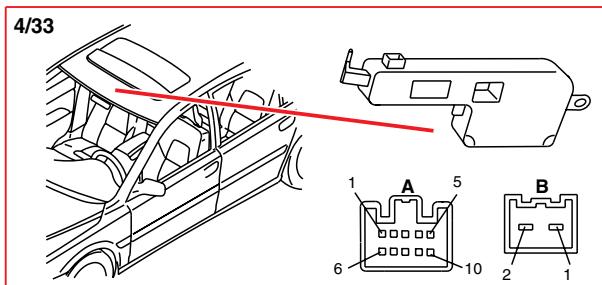
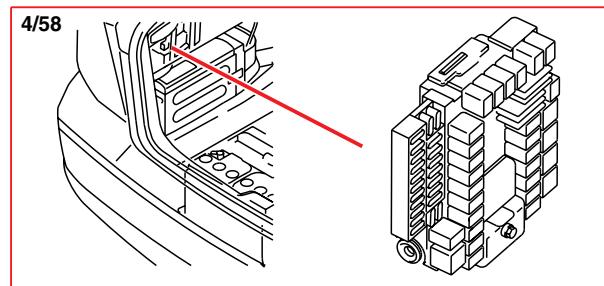
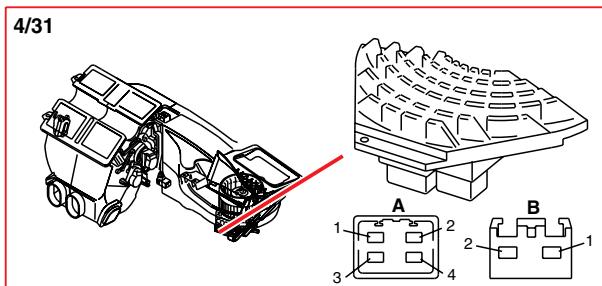
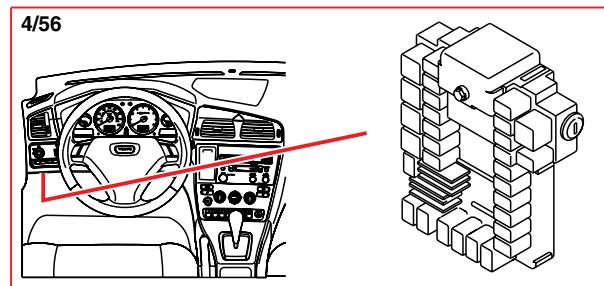
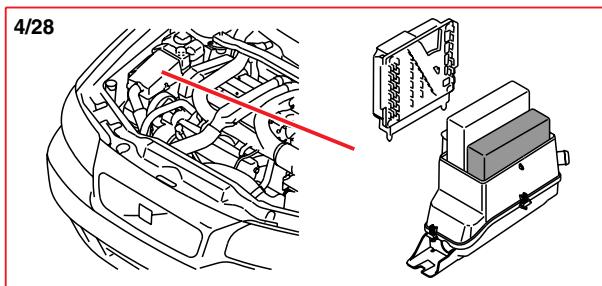
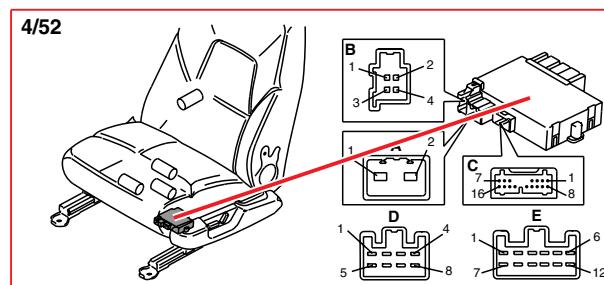
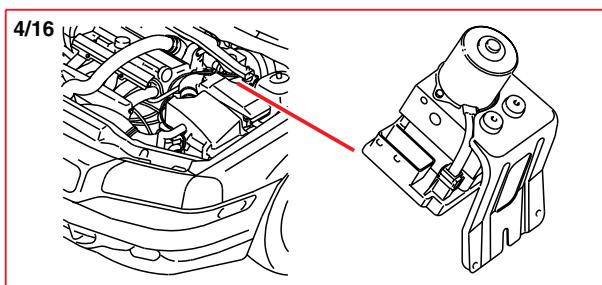


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Component illustrations

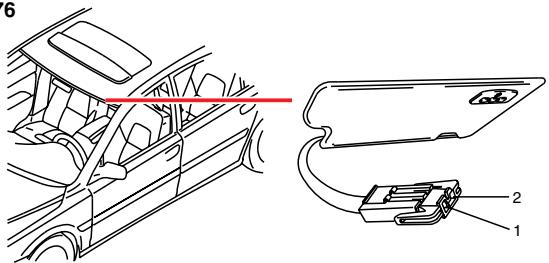
4/16 - 4/71



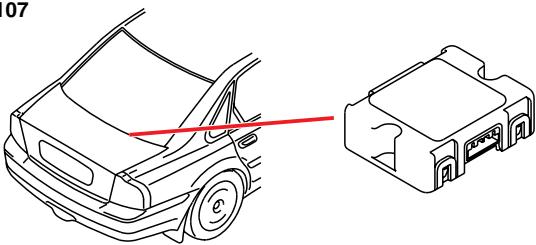
Component illustrations

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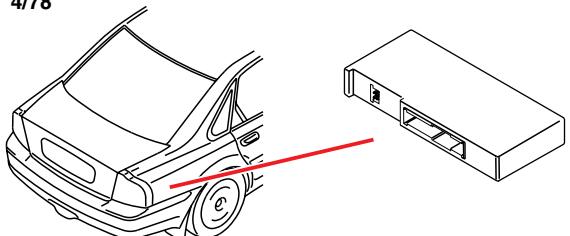
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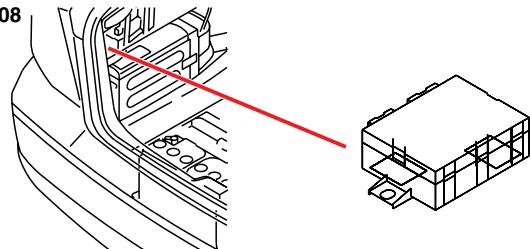
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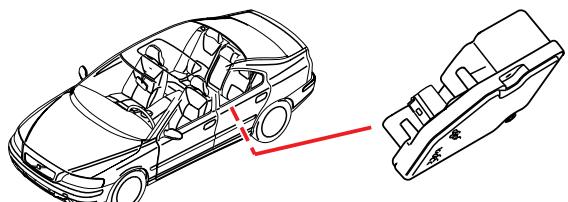
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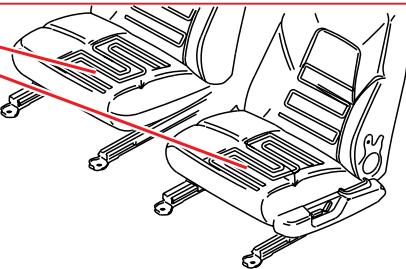
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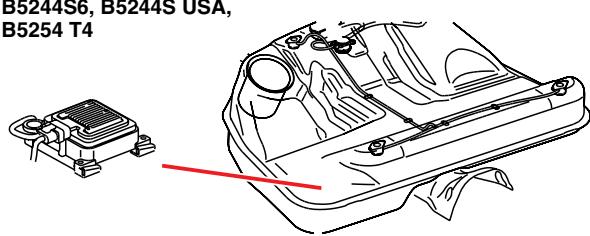


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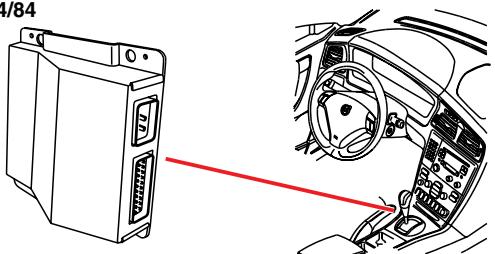


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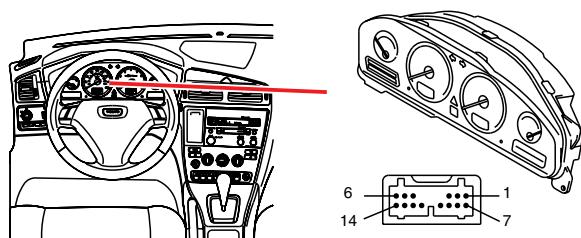
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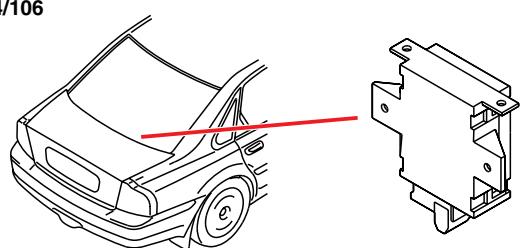
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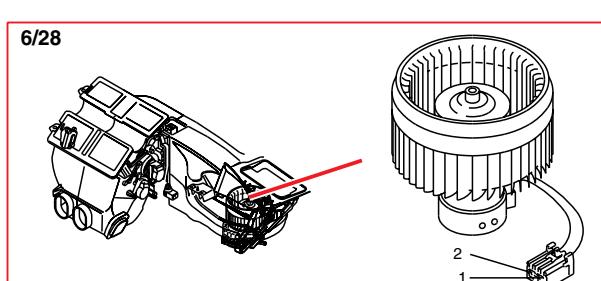
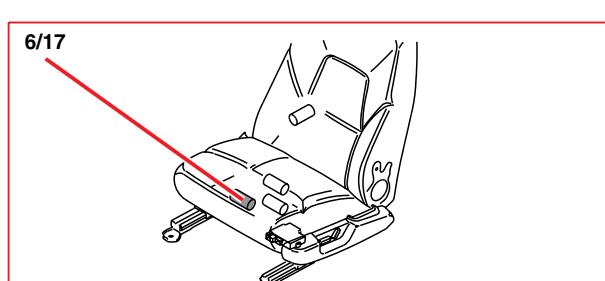
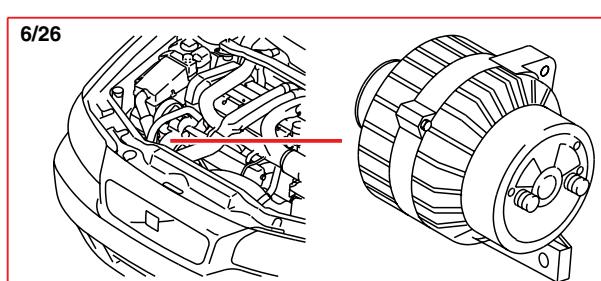
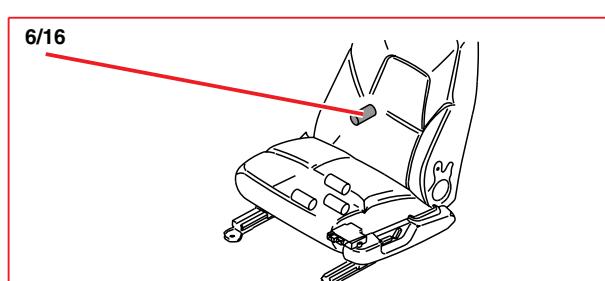
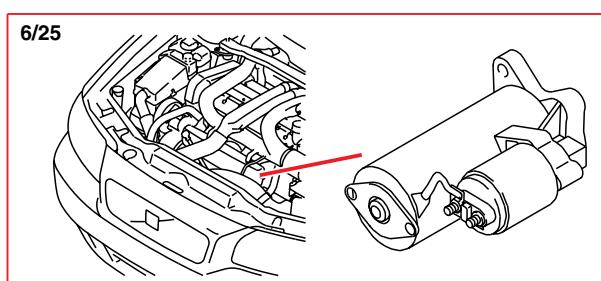
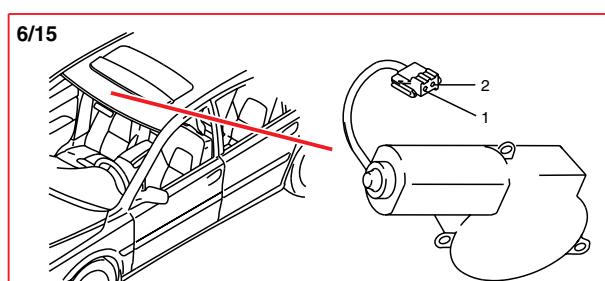
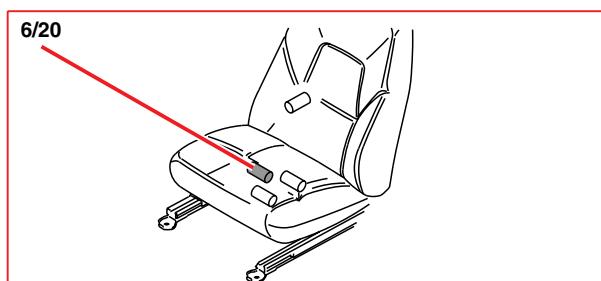
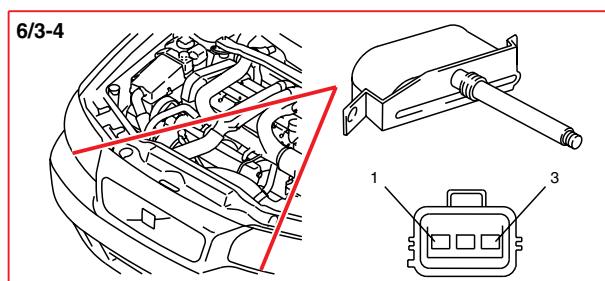
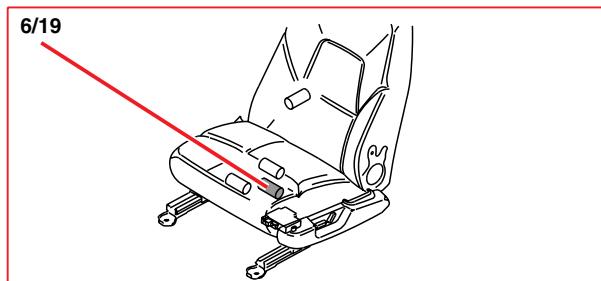
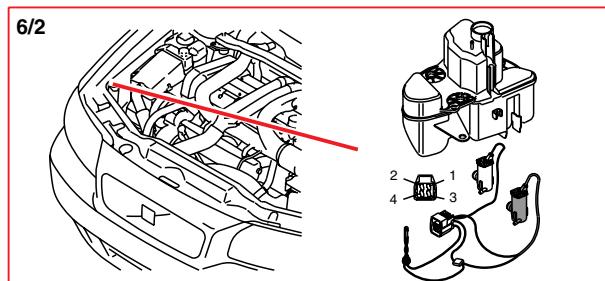
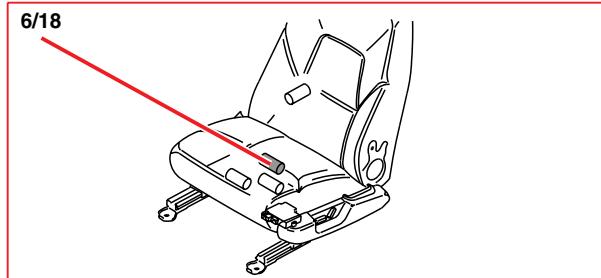
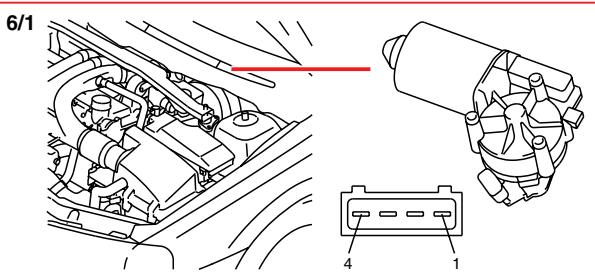


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Component illustrations

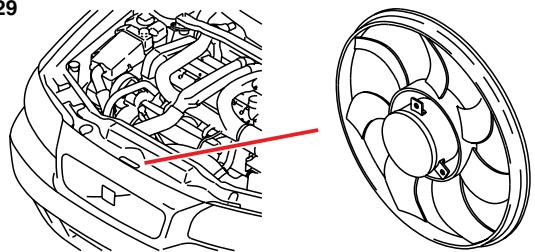
6/1 - 6/28



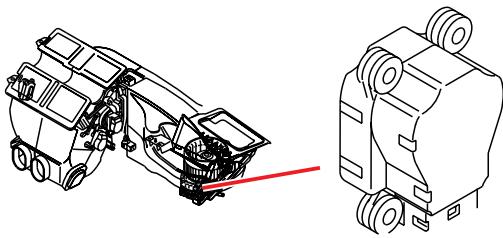
Component illustrations

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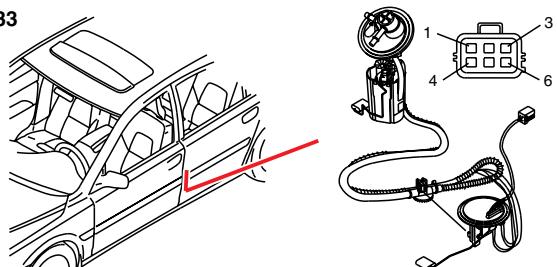
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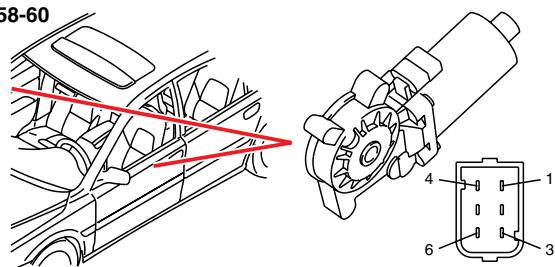
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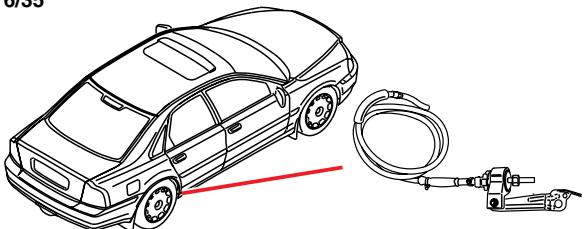
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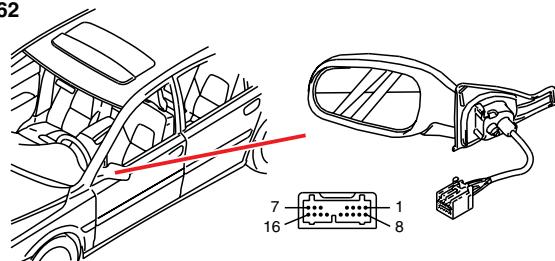
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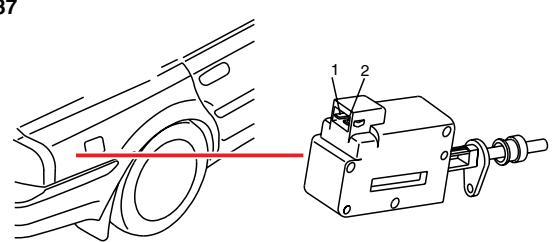
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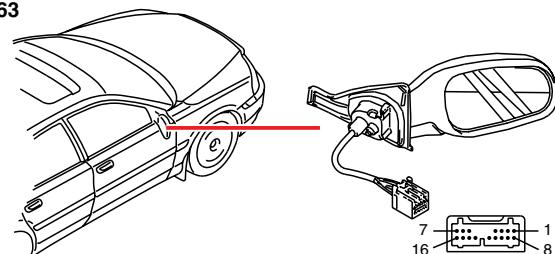
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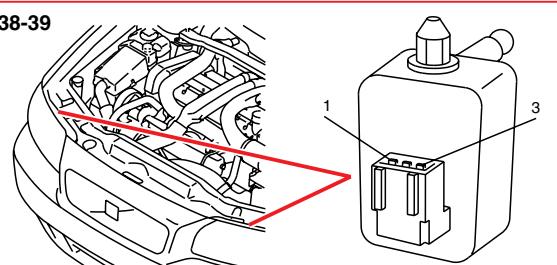
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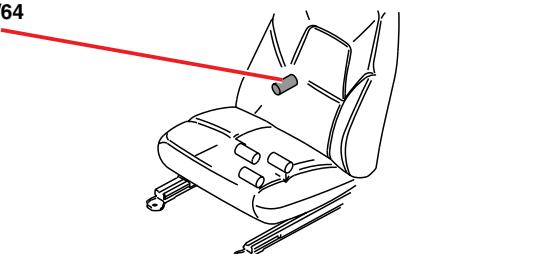
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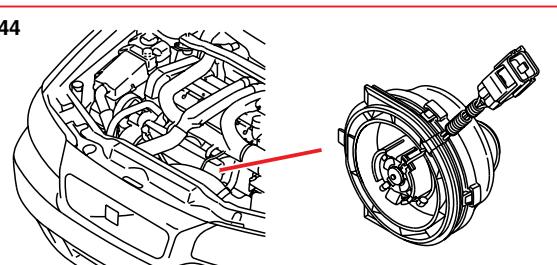
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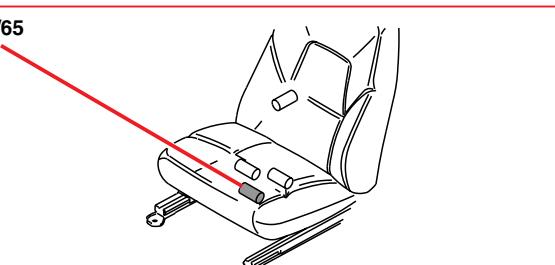
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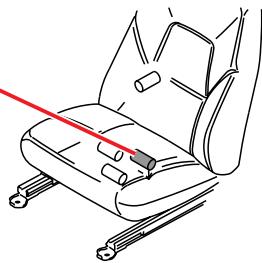
6/65



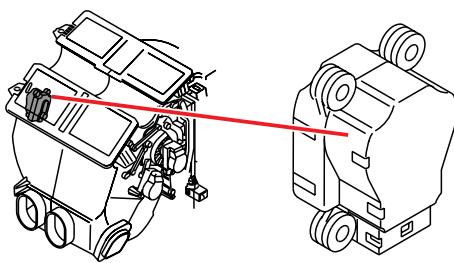
Component illustrations

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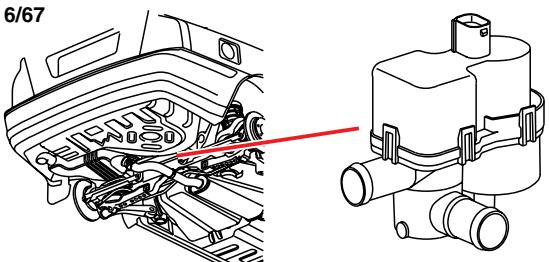
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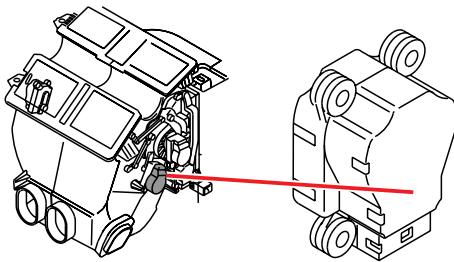
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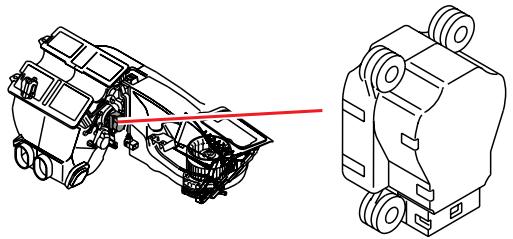
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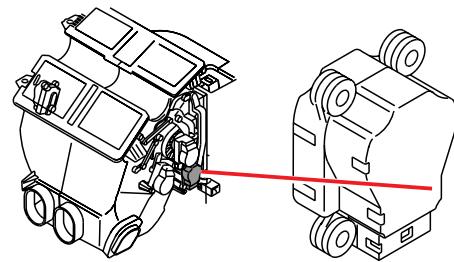
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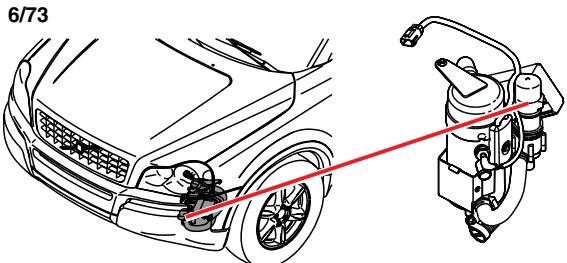
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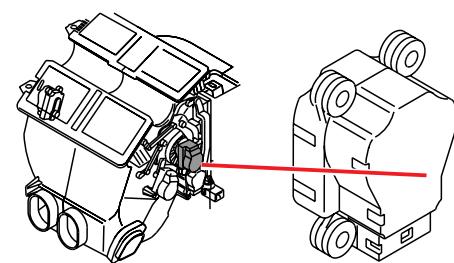
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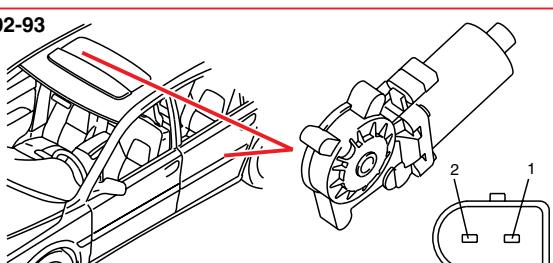
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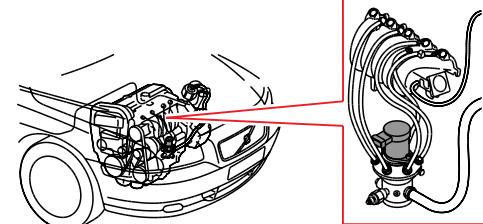
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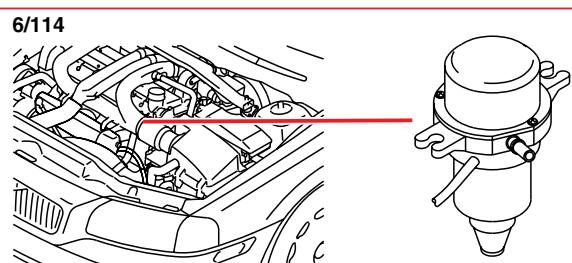
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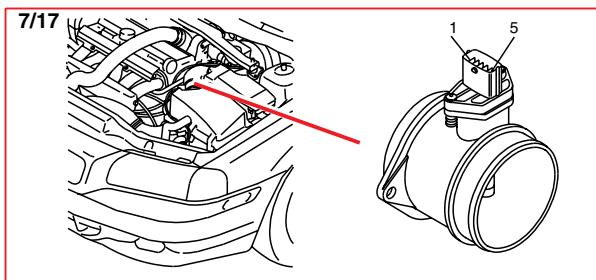
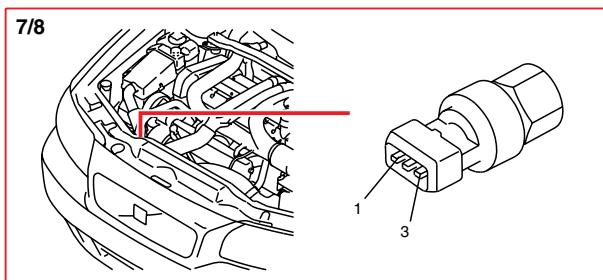
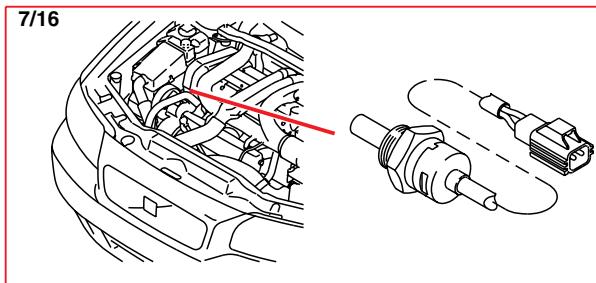
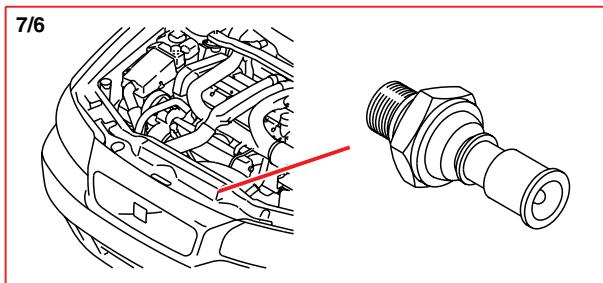
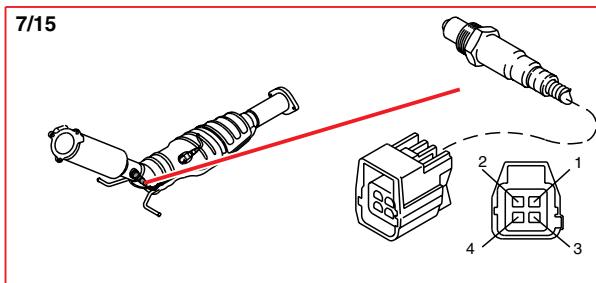
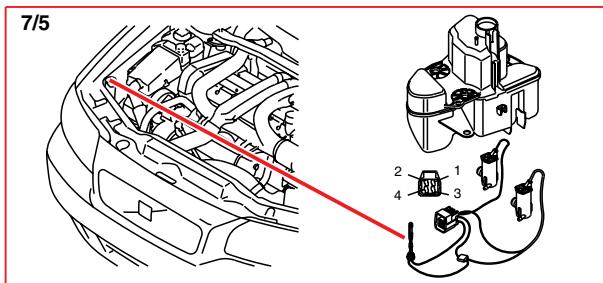
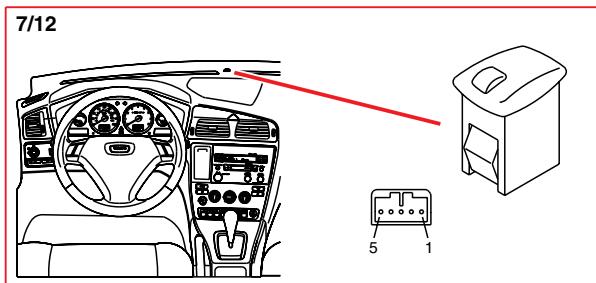
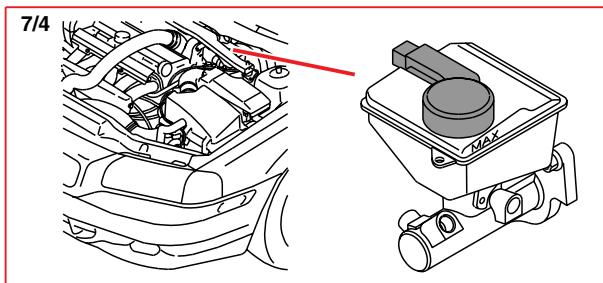
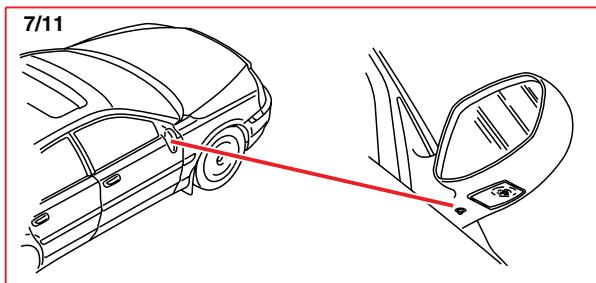
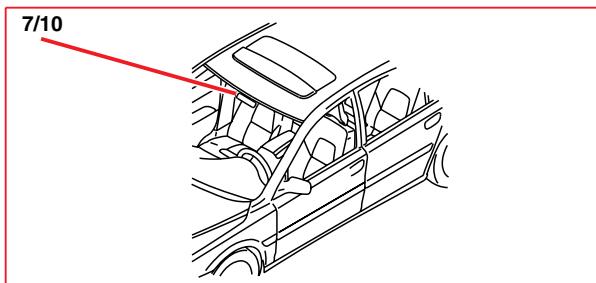
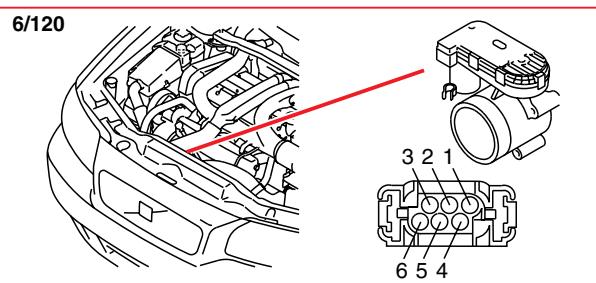


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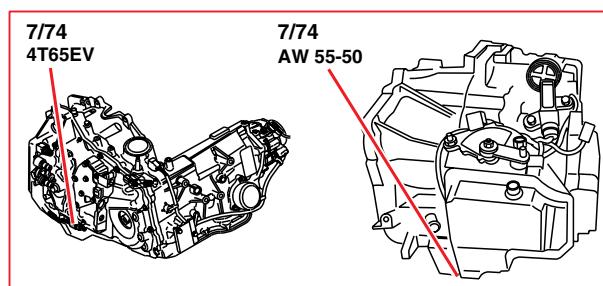
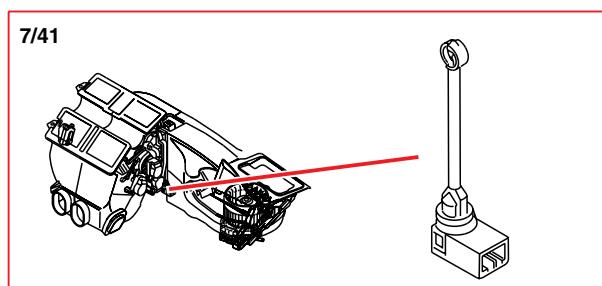
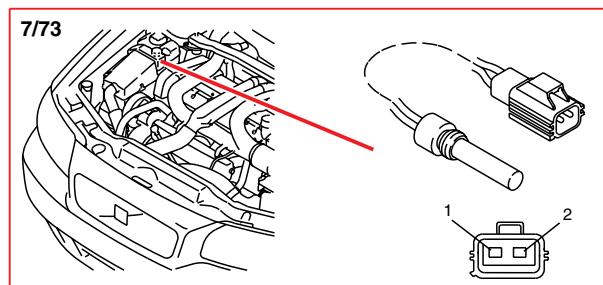
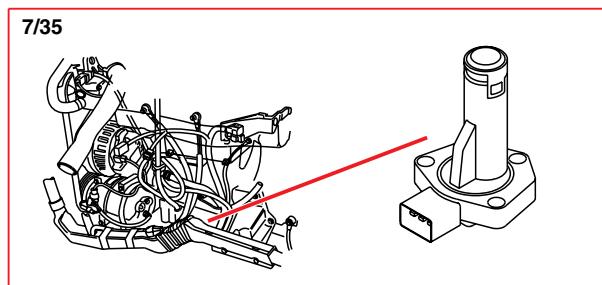
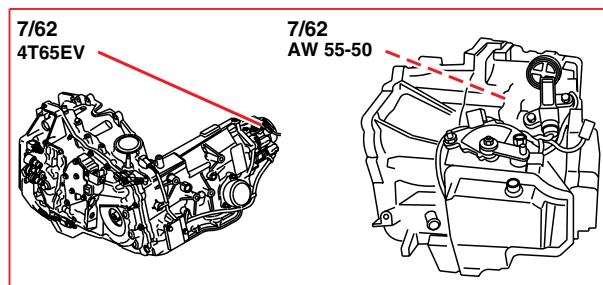
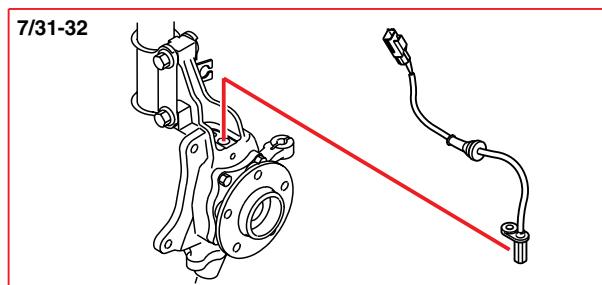
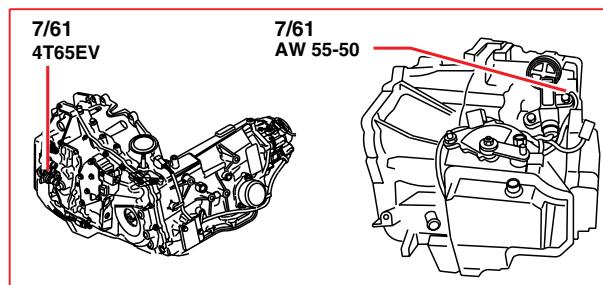
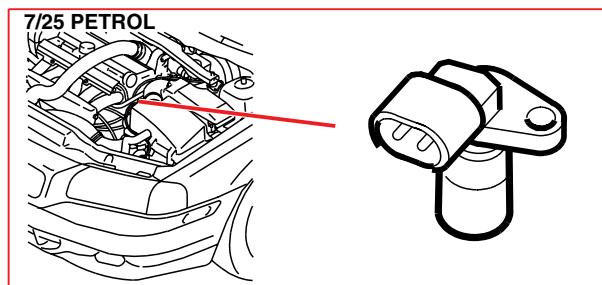
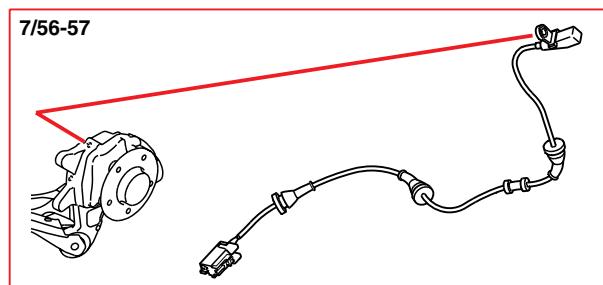
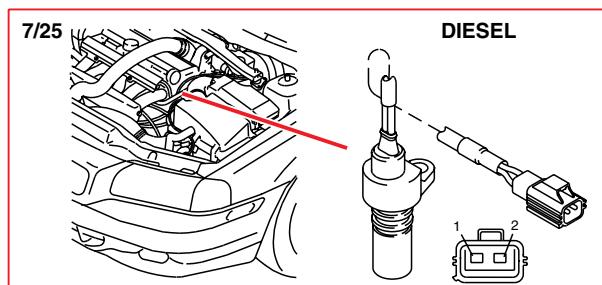
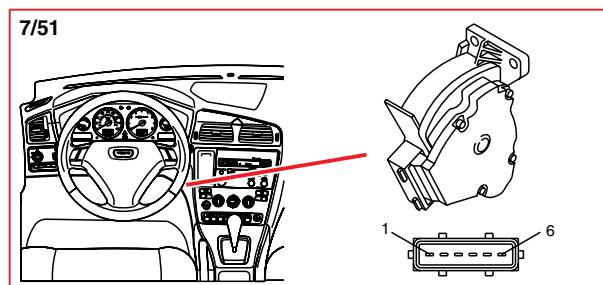
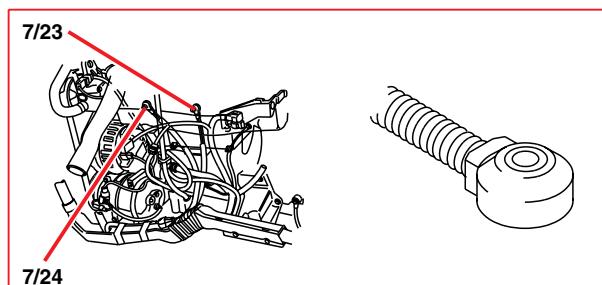
Component illustrations

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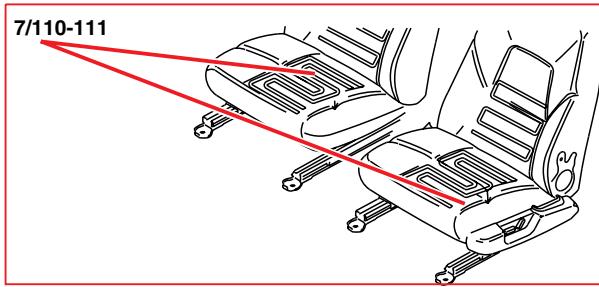
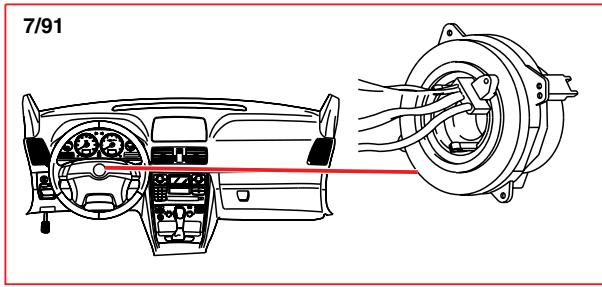
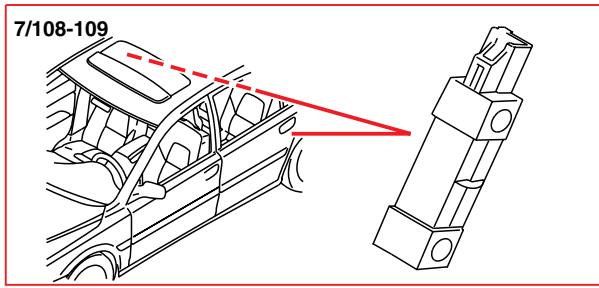
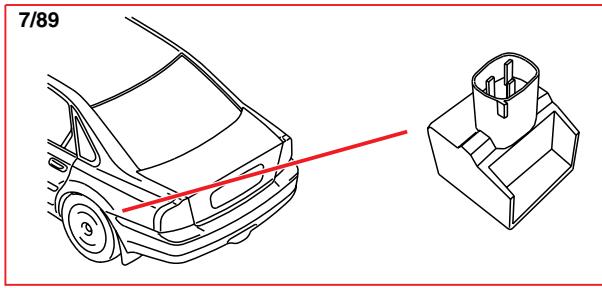
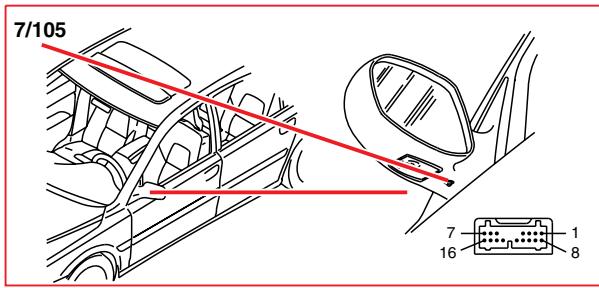
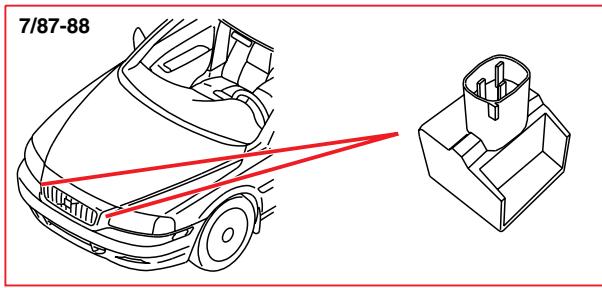
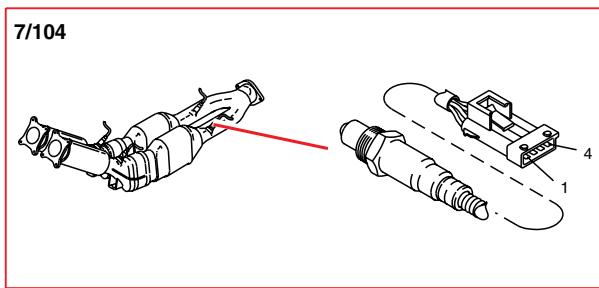
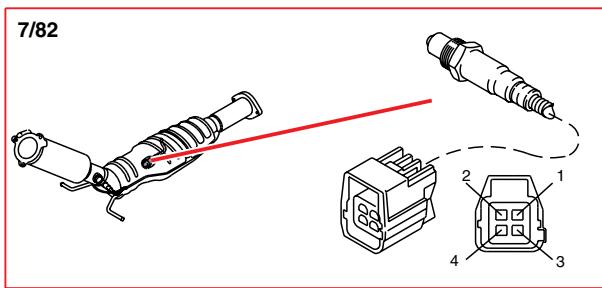
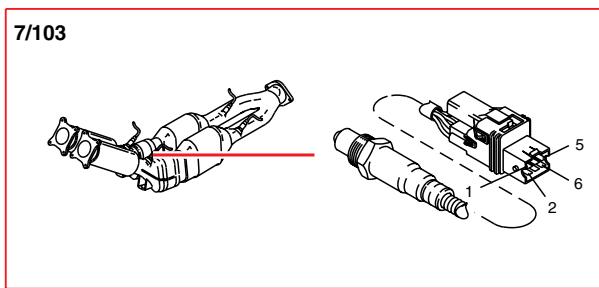
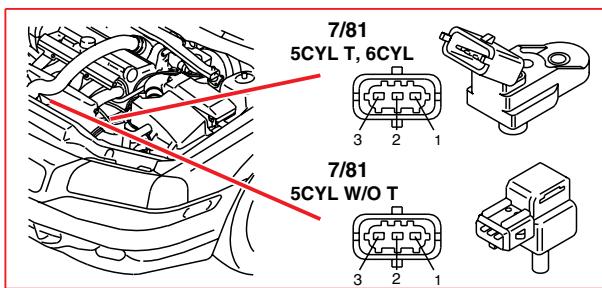
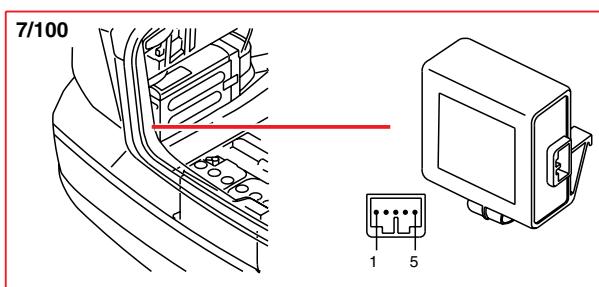
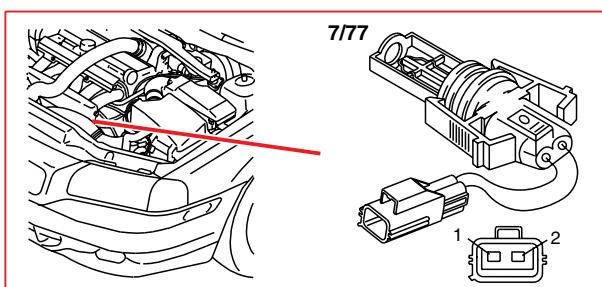
Component illustrations

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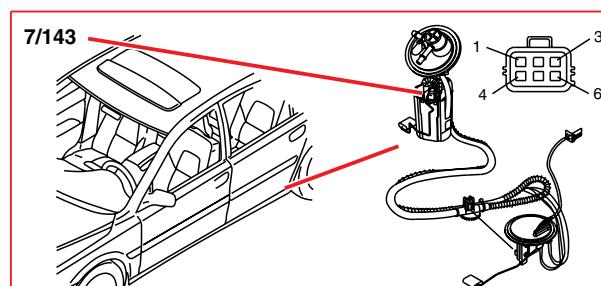
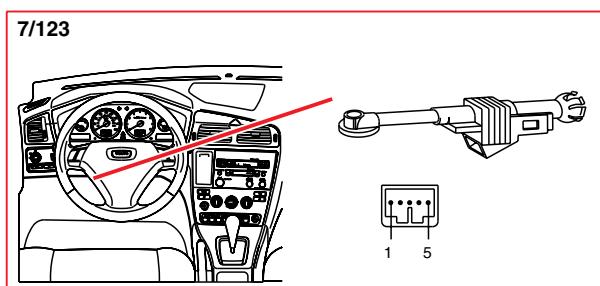
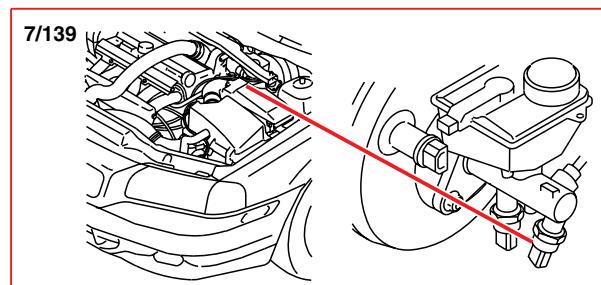
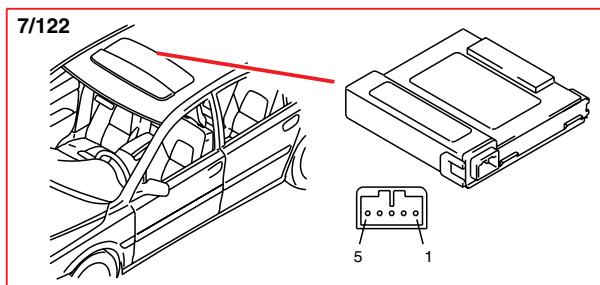
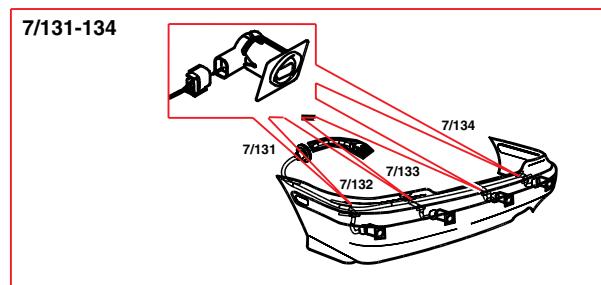
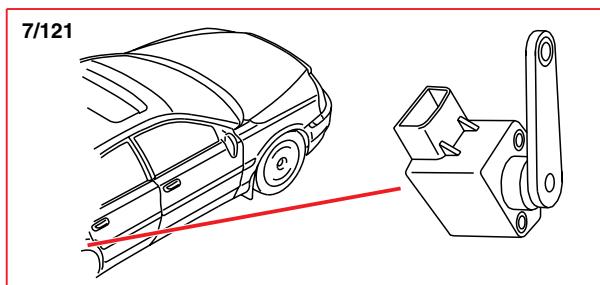
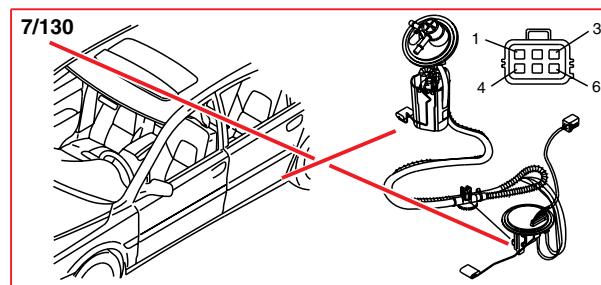
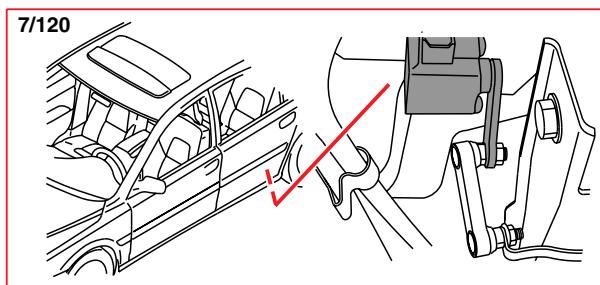
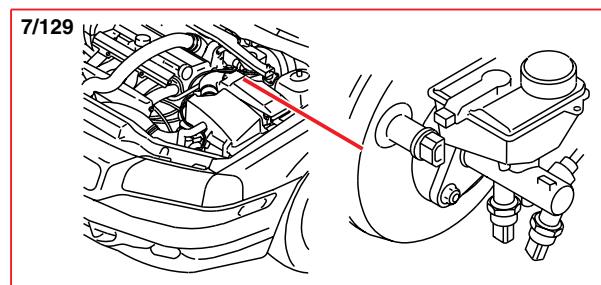
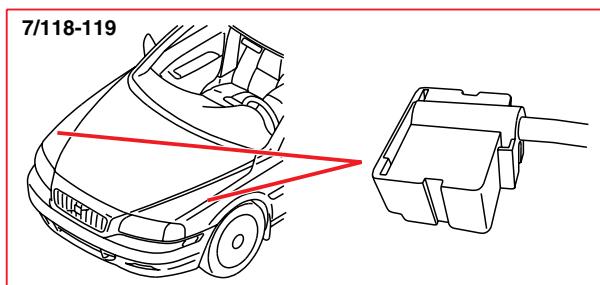
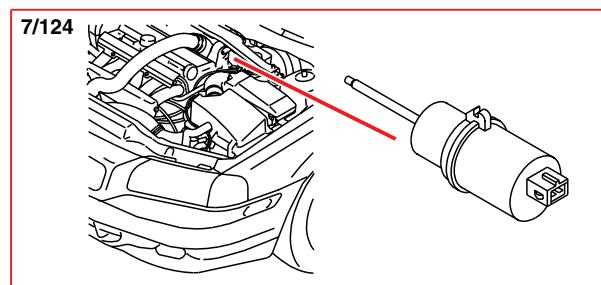
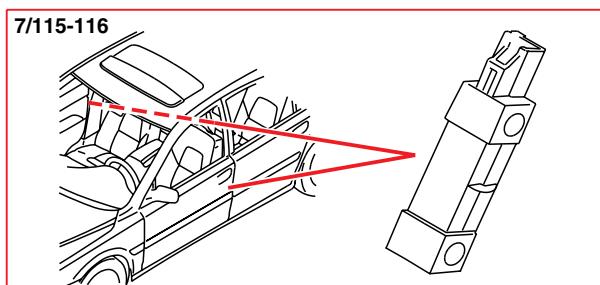
Component illustrations

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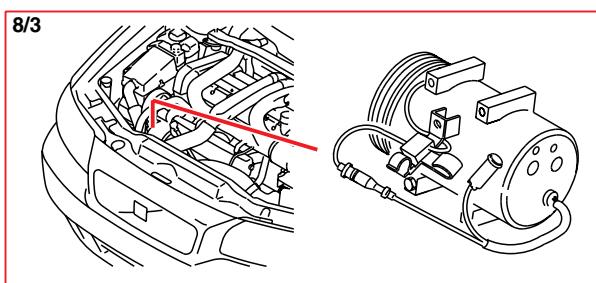
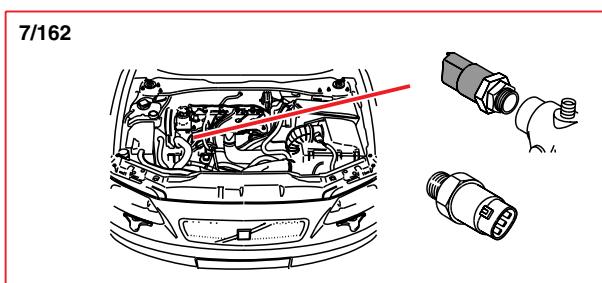
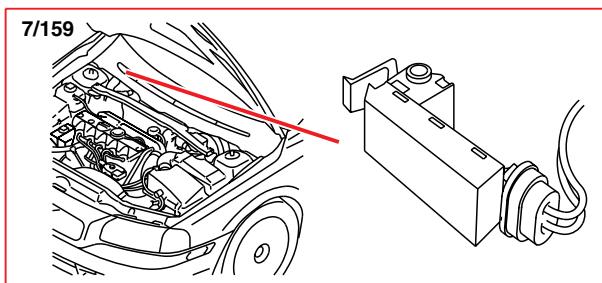
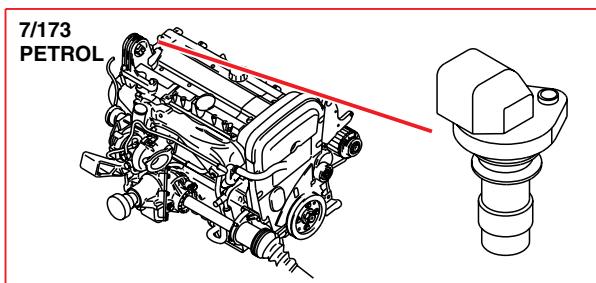
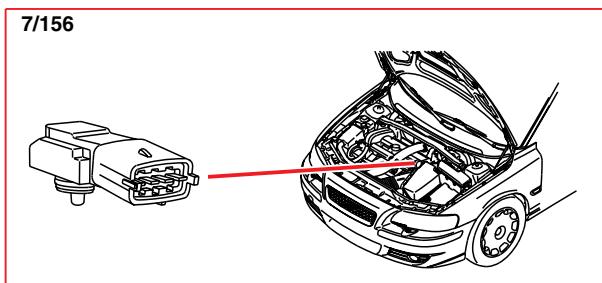
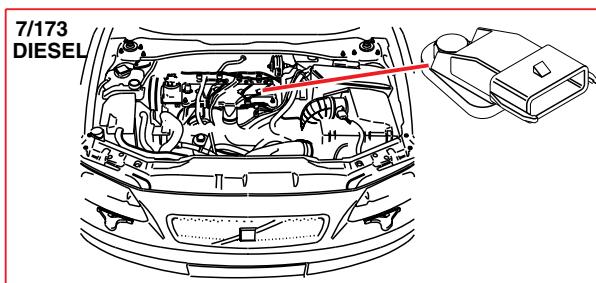
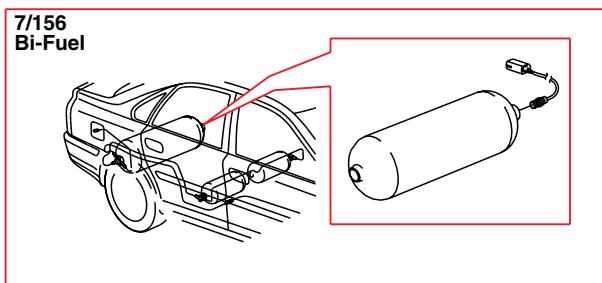
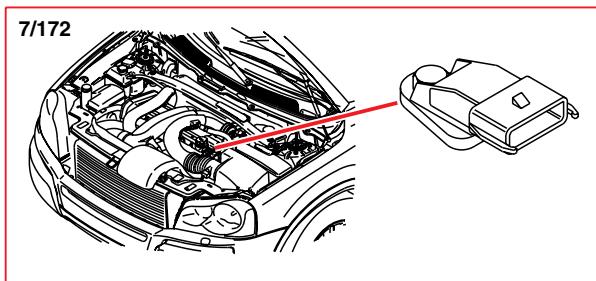
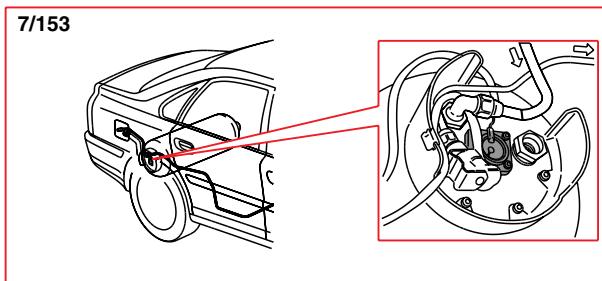
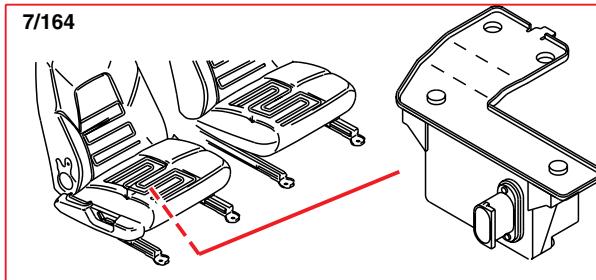
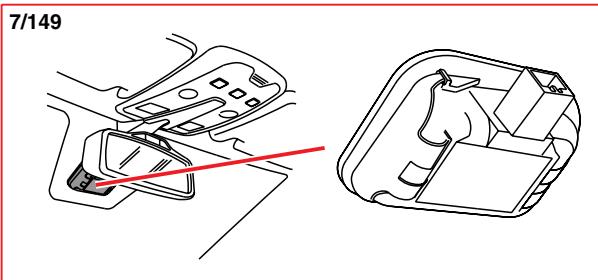


Component illustrations

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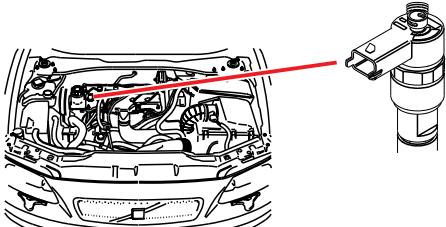
Component illustrations
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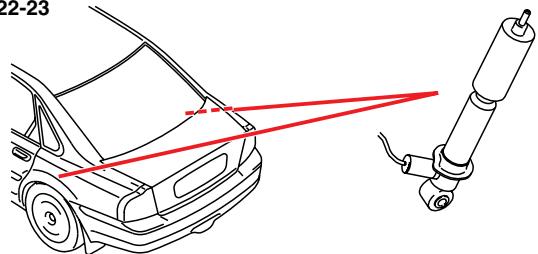
Component illustrations

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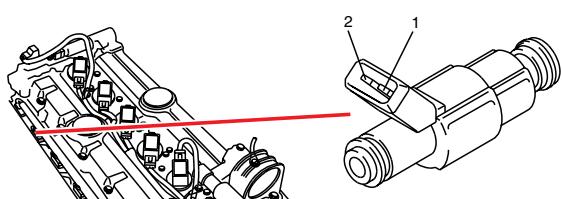
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DIESEL



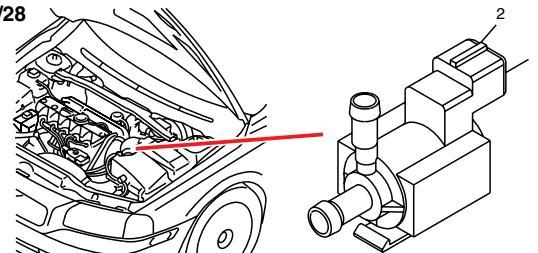
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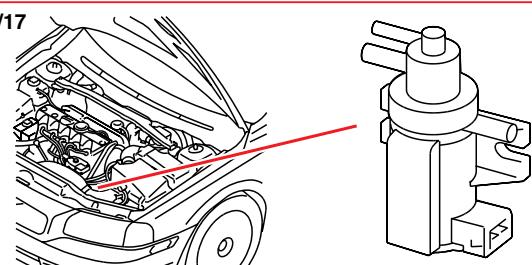
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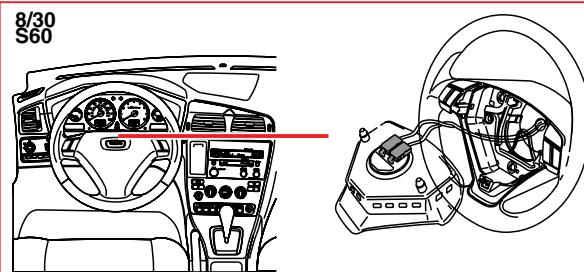
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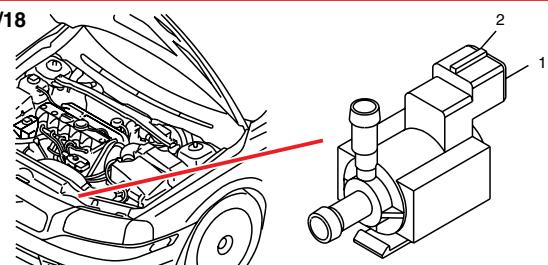
8/17



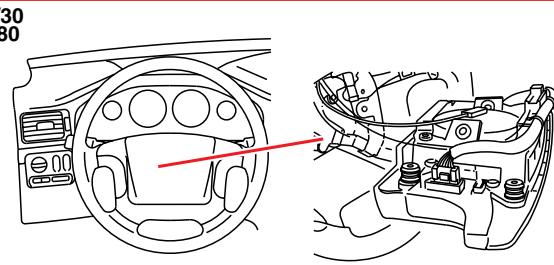
8/30
S60



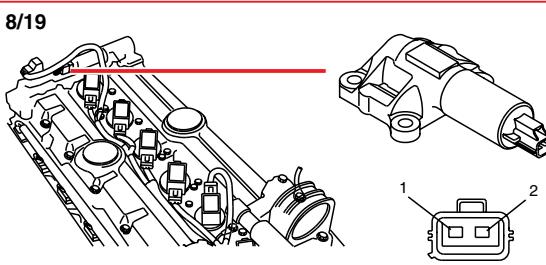
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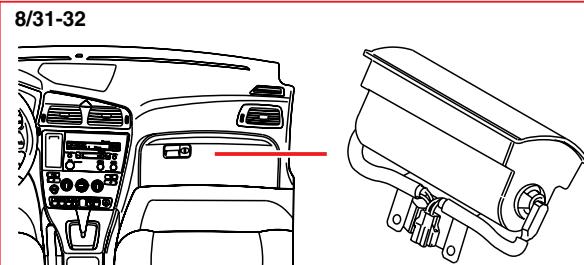
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S80



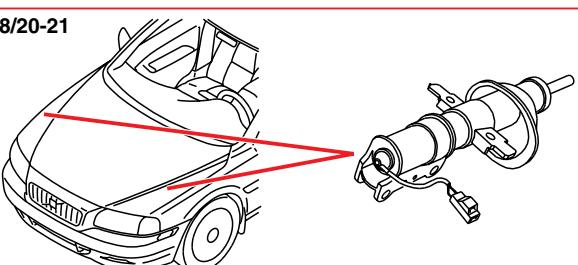
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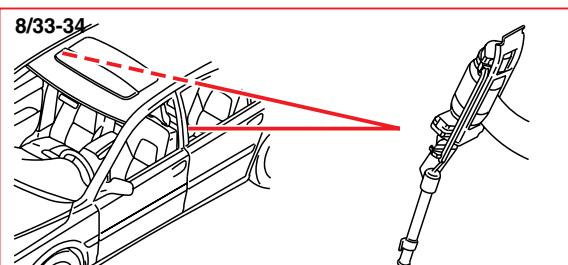
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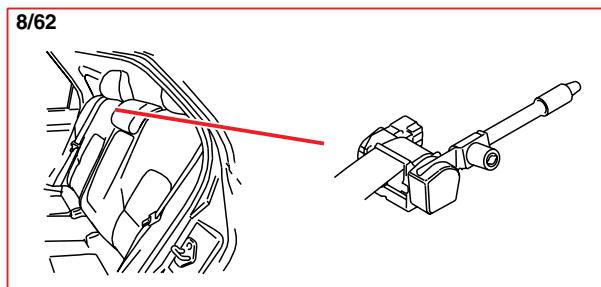
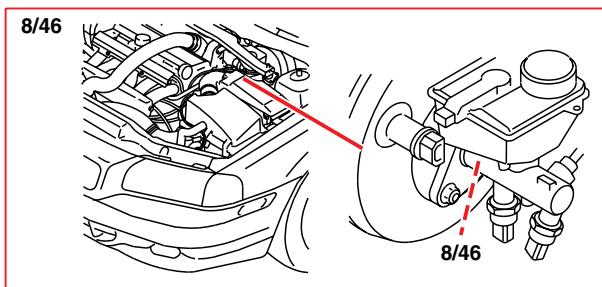
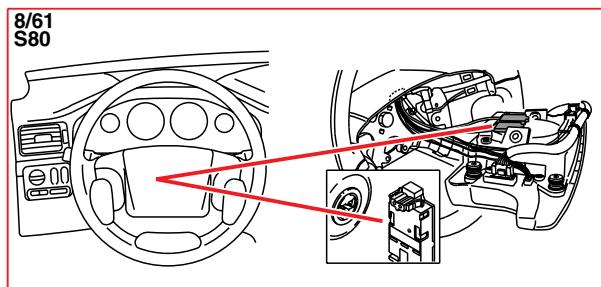
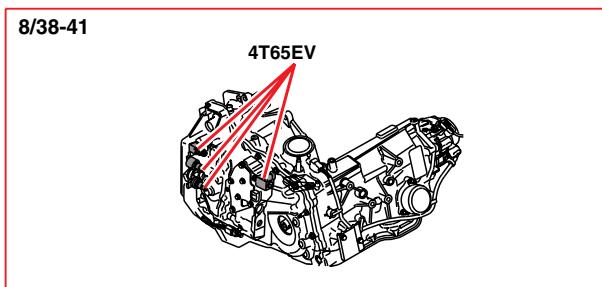
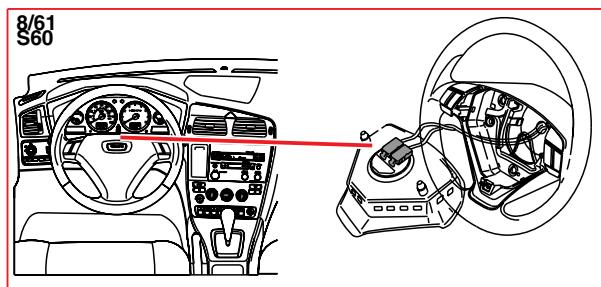
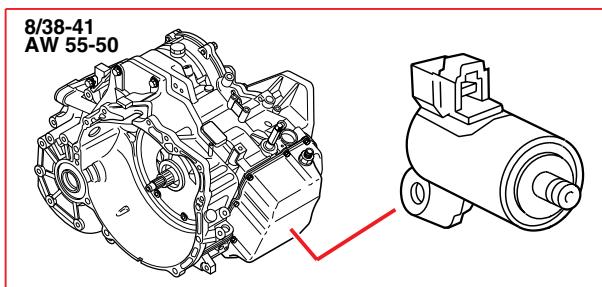
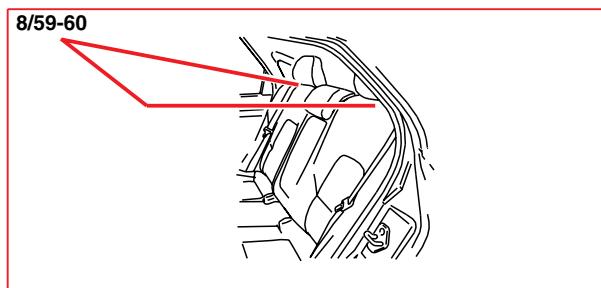
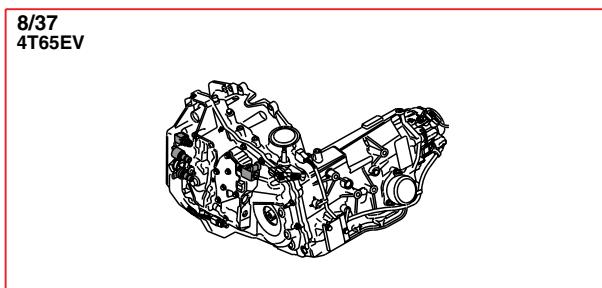
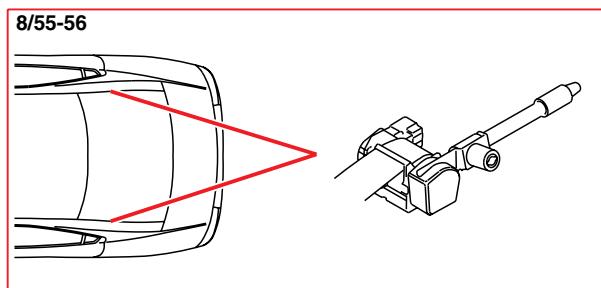
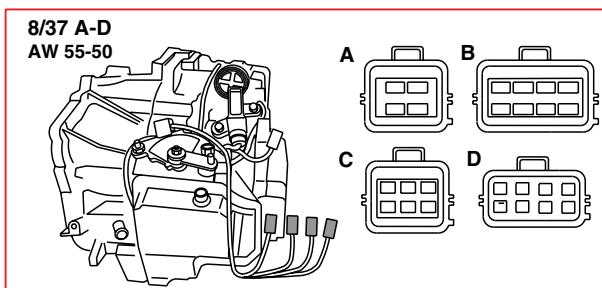
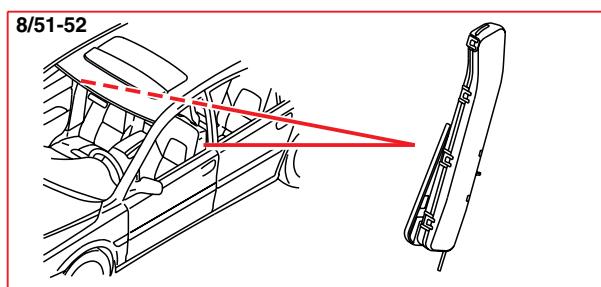
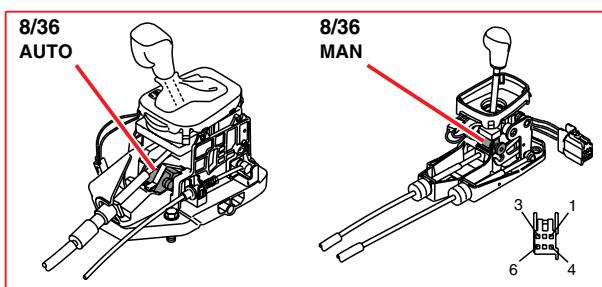


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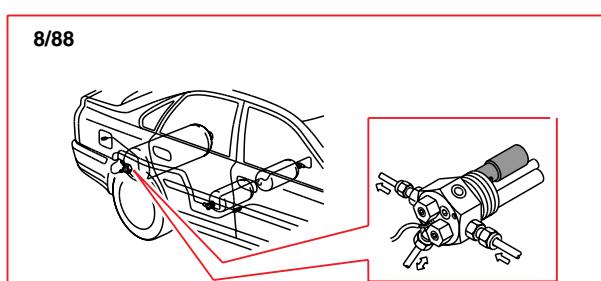
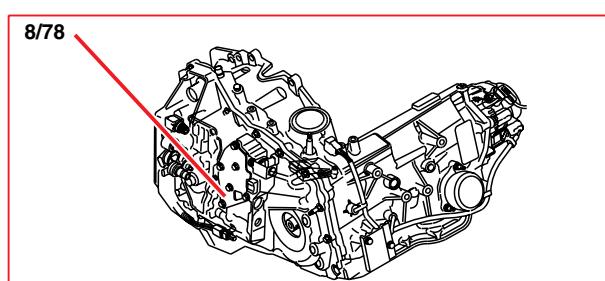
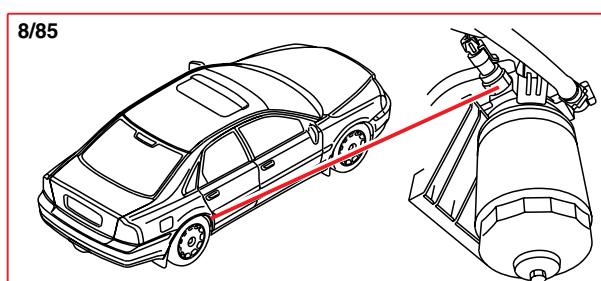
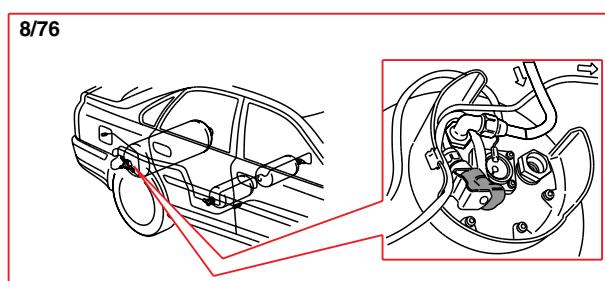
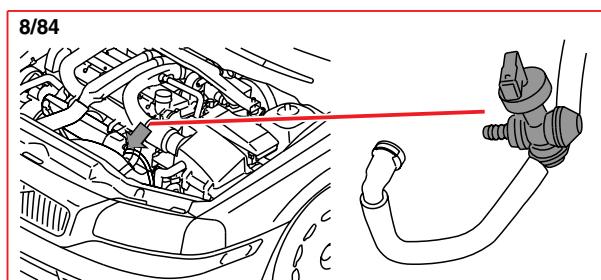
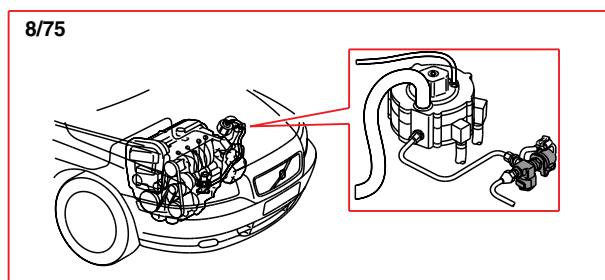
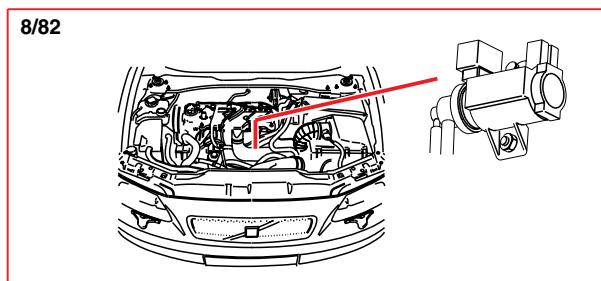
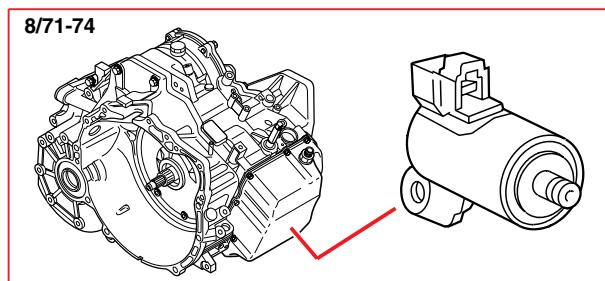
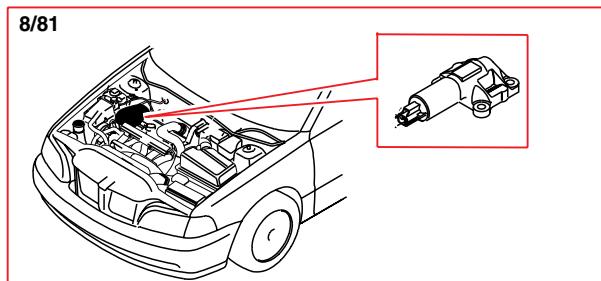
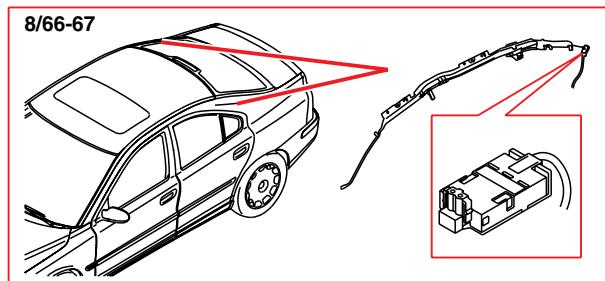
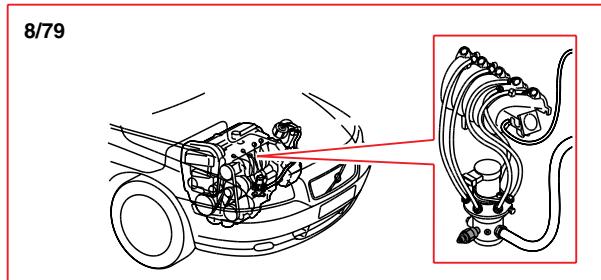
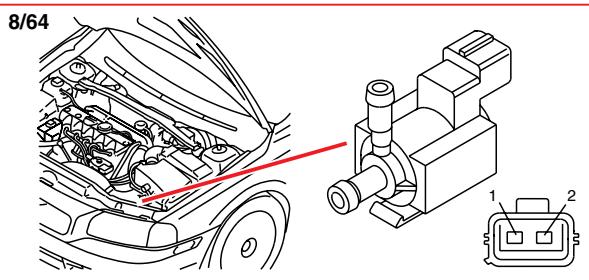
Component illustrations

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Component illustrations

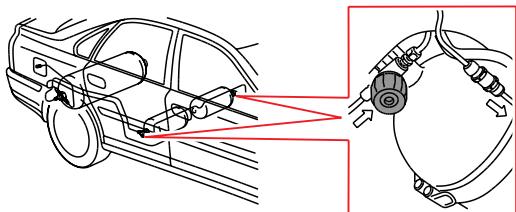
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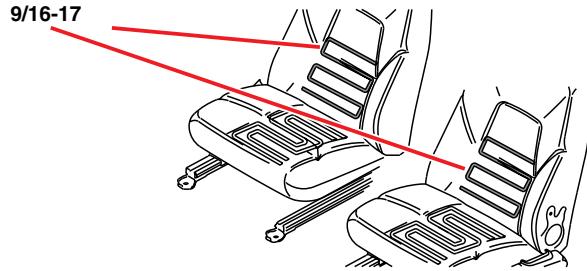
Component illustrations

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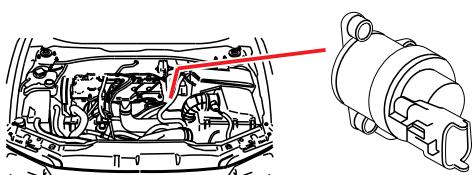
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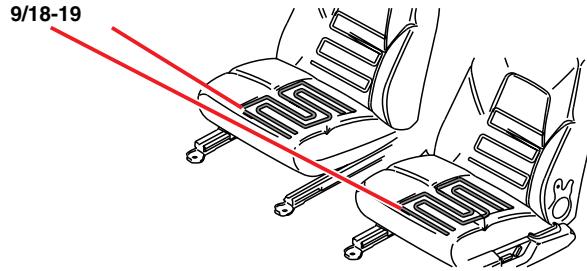
9/16-17



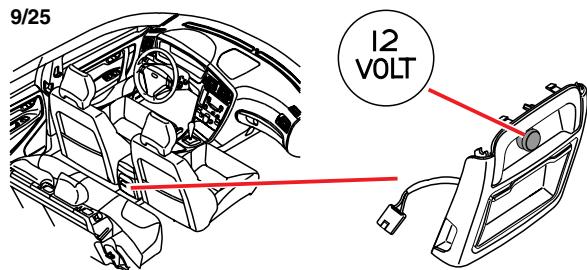
8/111



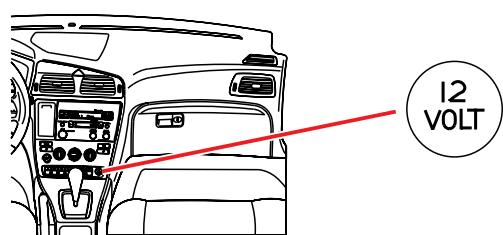
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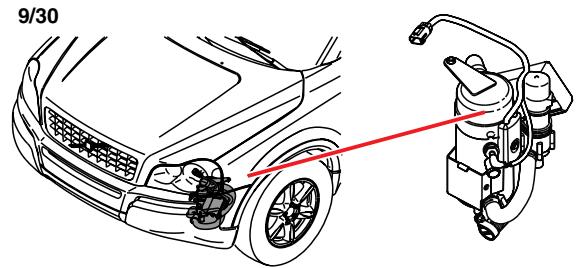
9/25



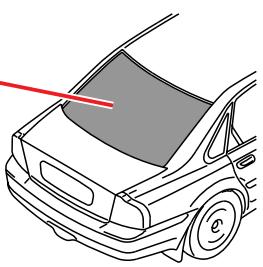
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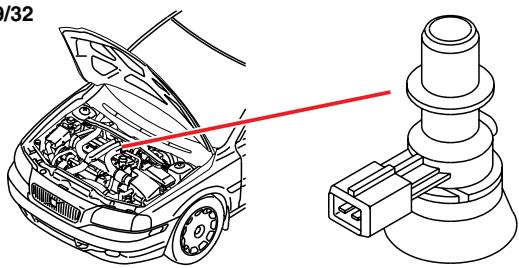
9/30



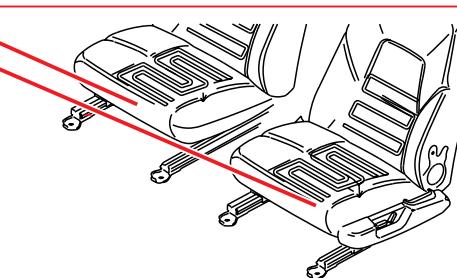
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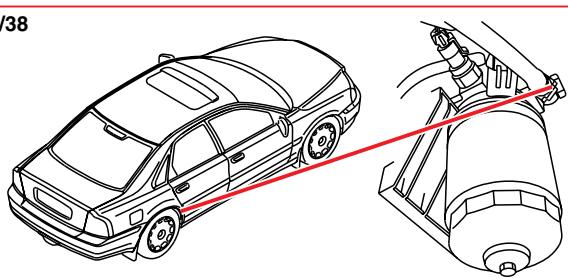
9/32



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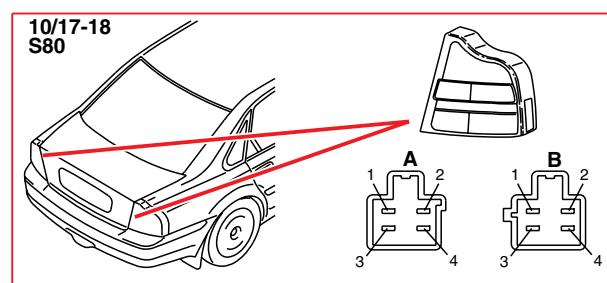
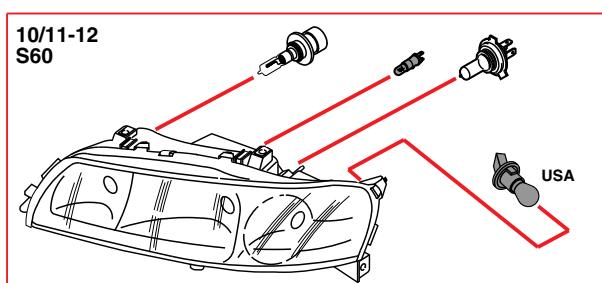
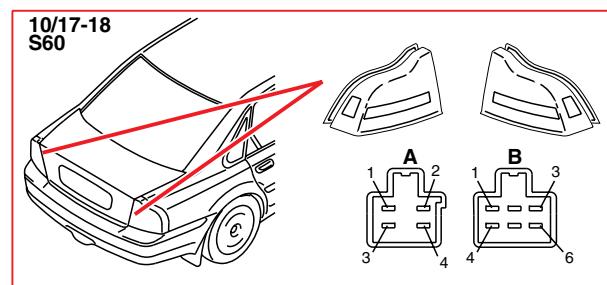
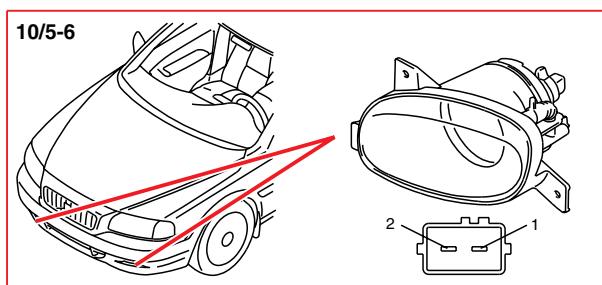
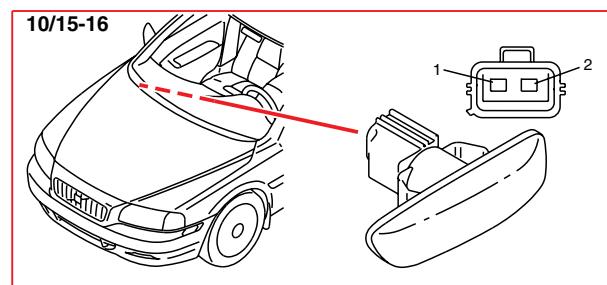
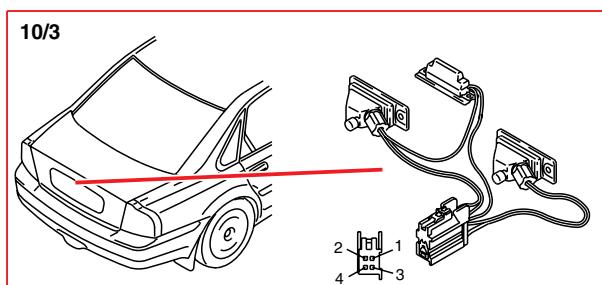
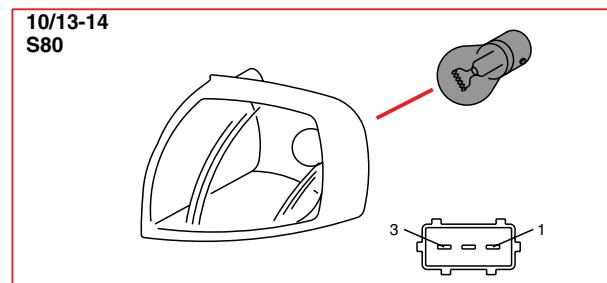
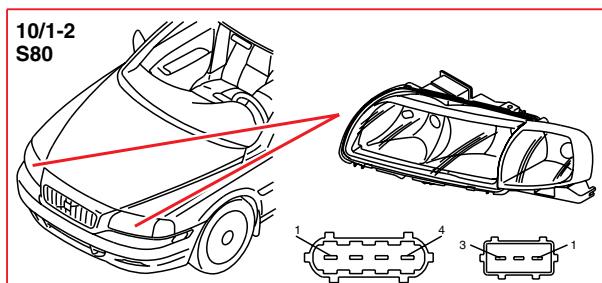
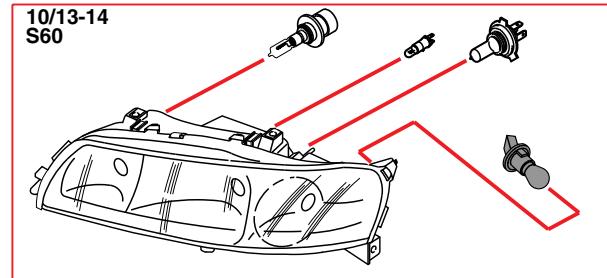
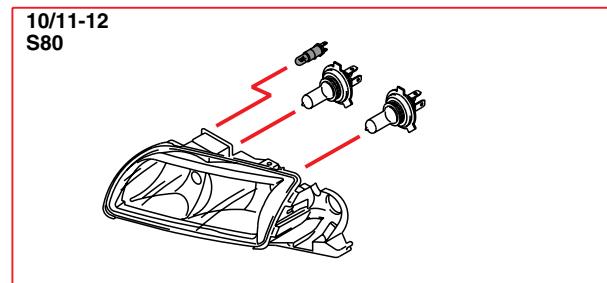
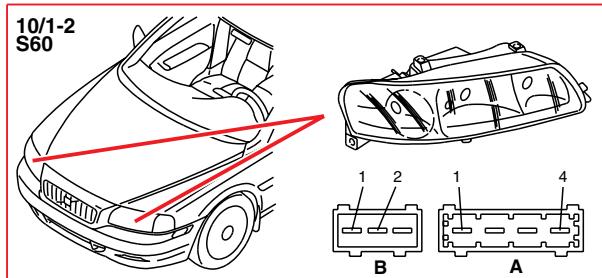


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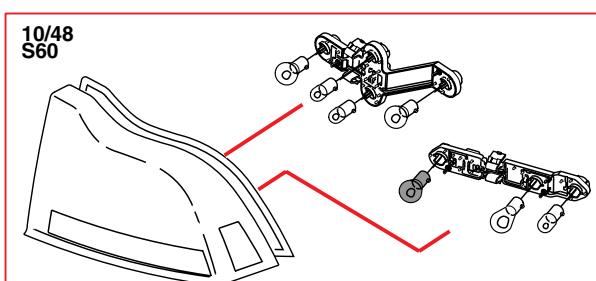
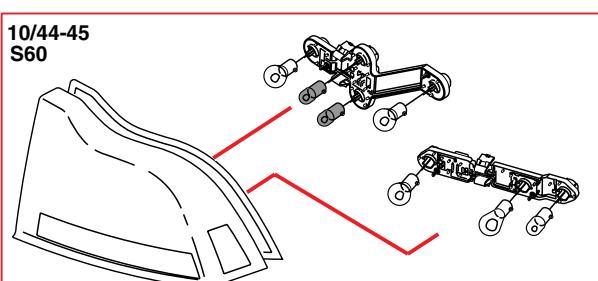
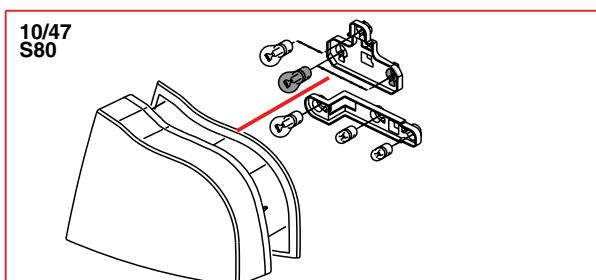
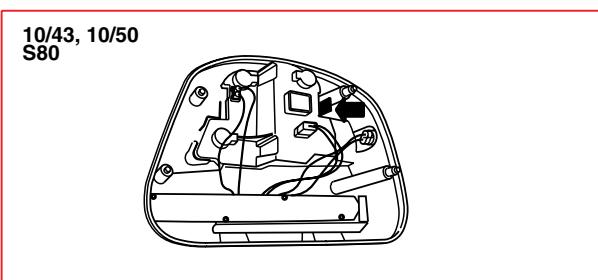
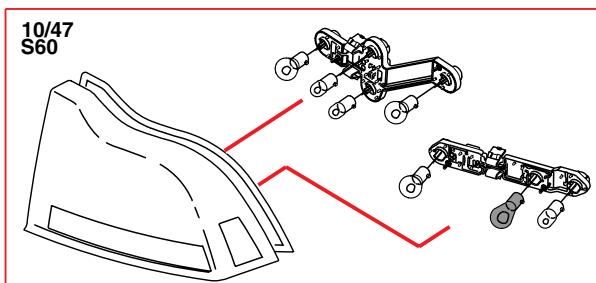
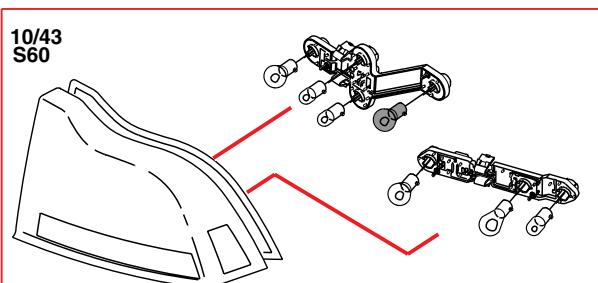
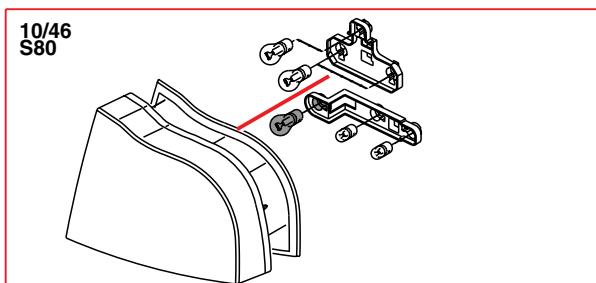
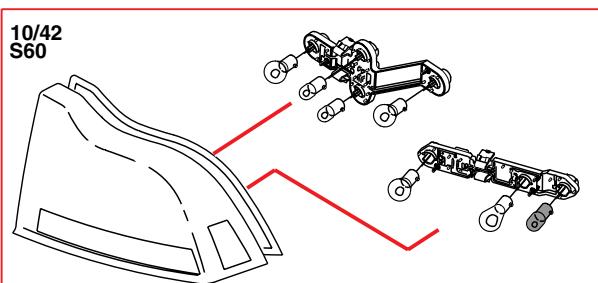
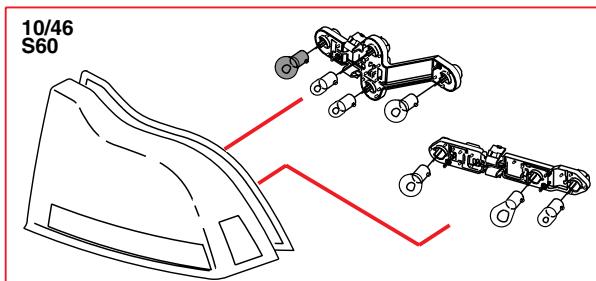
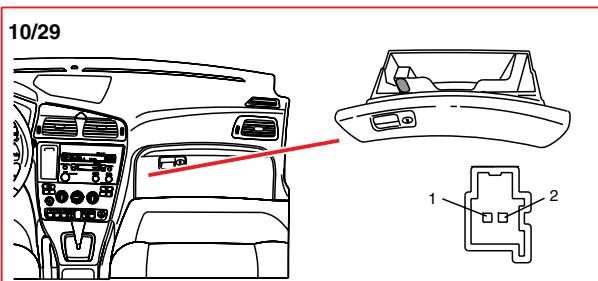
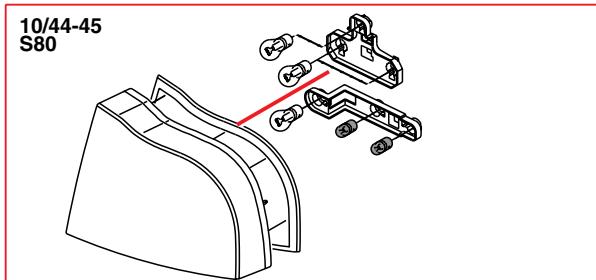
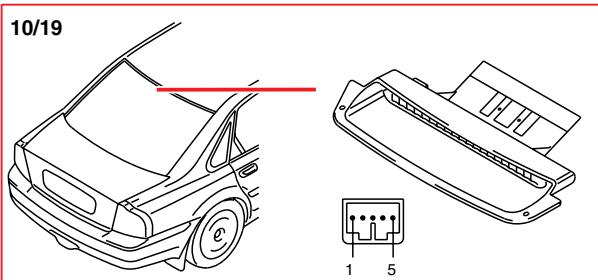
Component illustrations

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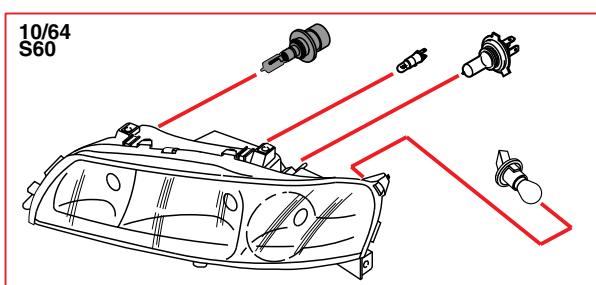
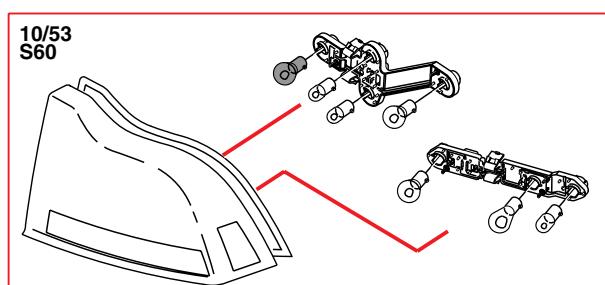
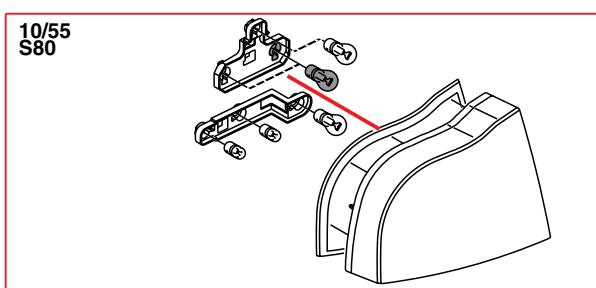
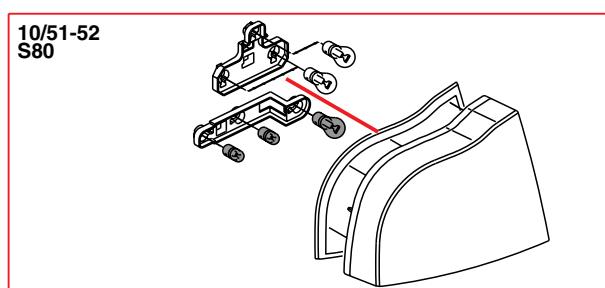
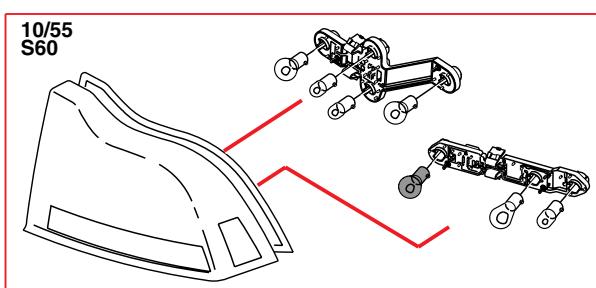
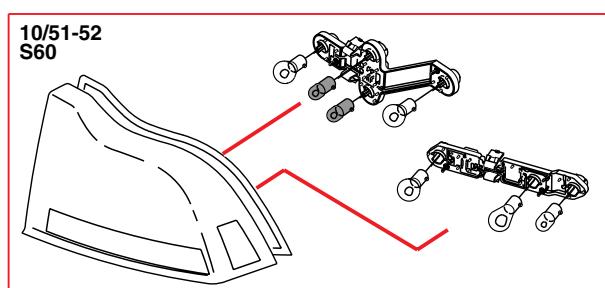
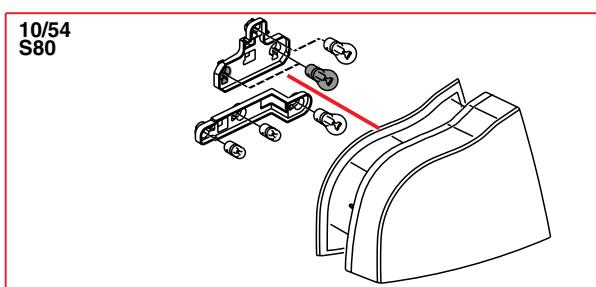
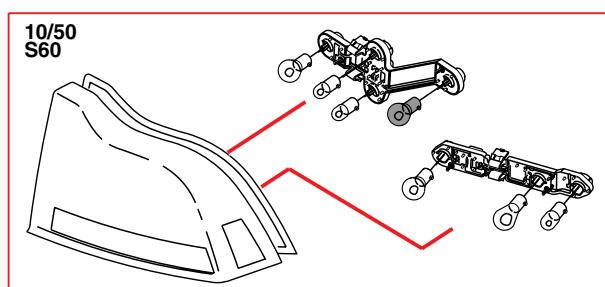
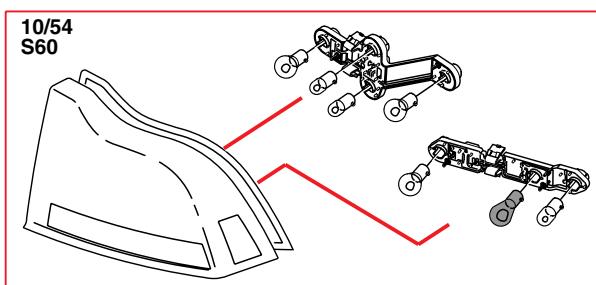
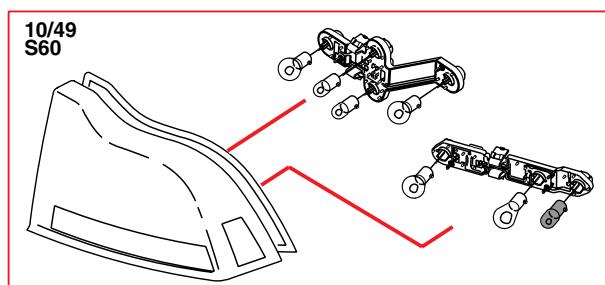
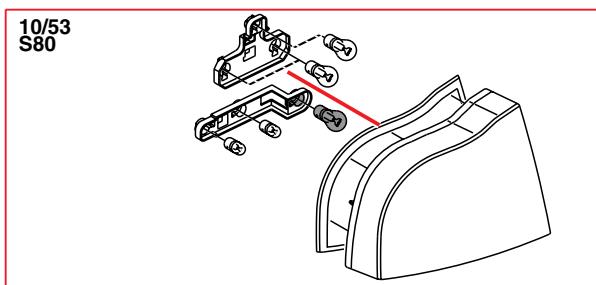
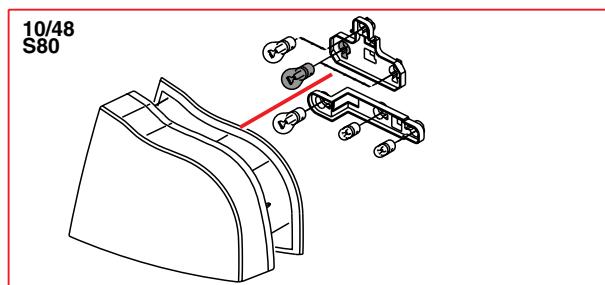
Component illustrations

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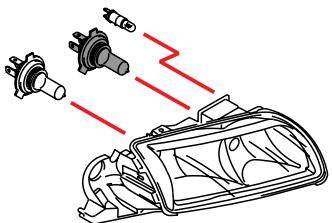
Component illustrations

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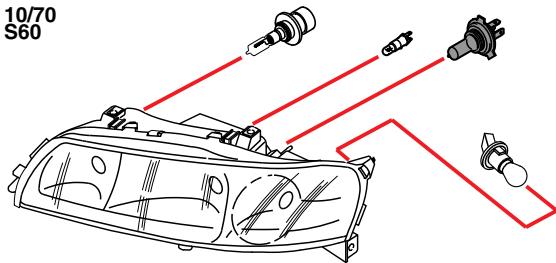


Component illustrations
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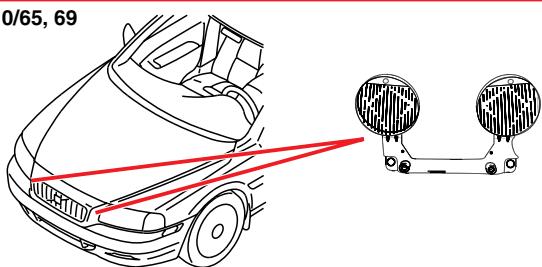
10/64
S80



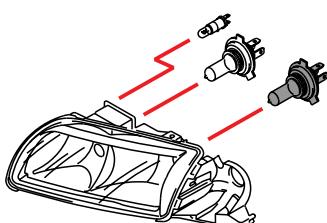
10/70
S60



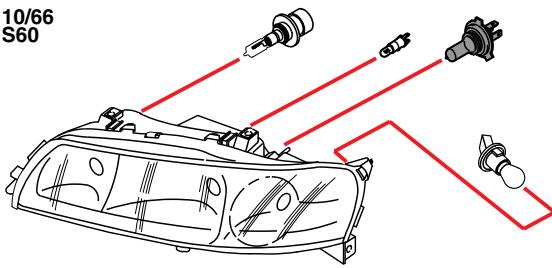
10/65, 69



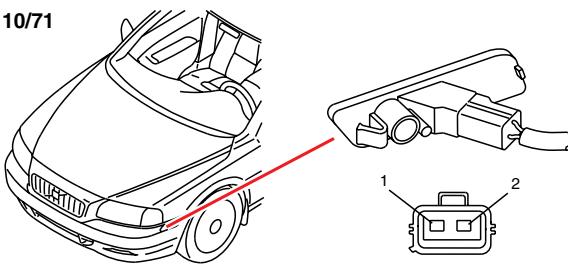
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S80



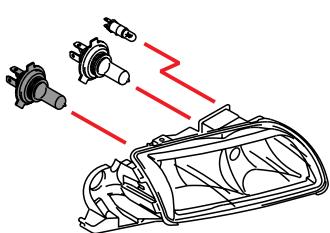
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S60



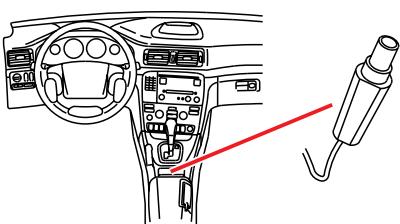
10/71



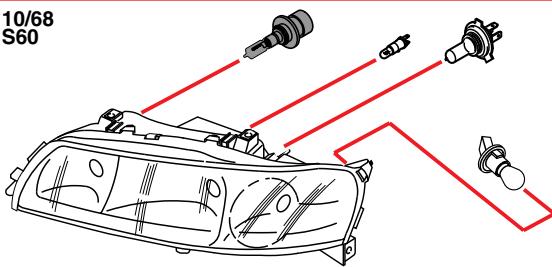
10/66
S80



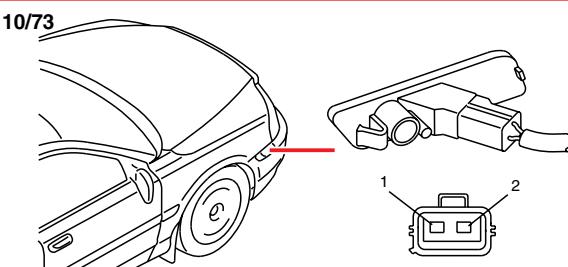
10/72



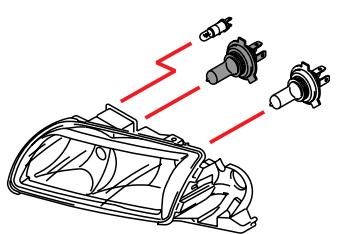
10/68
S60



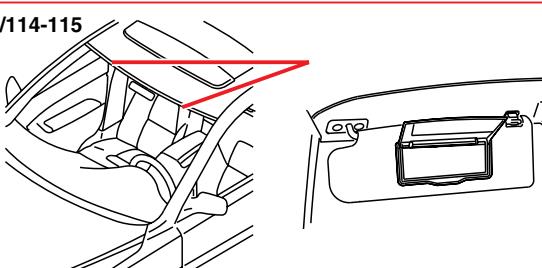
10/73



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S80

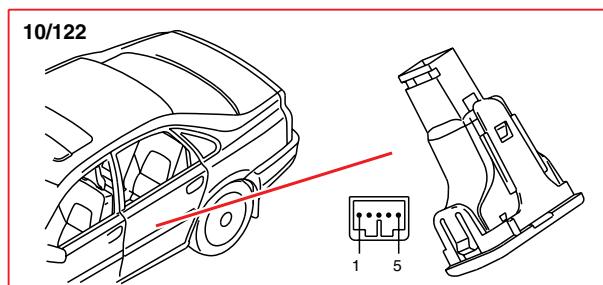


10/114-115

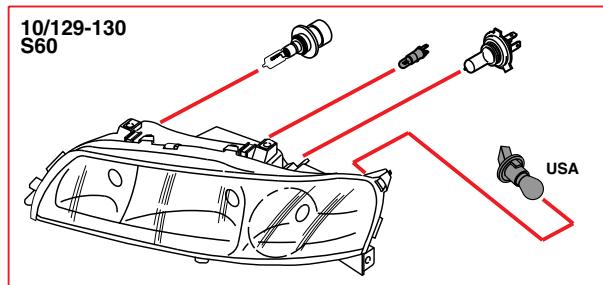
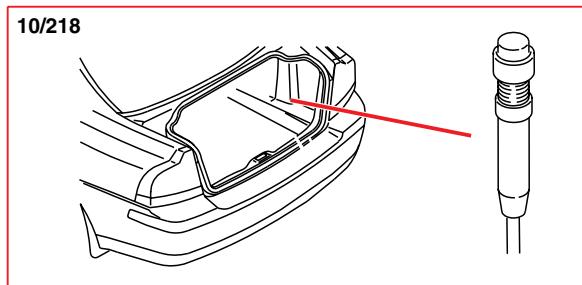
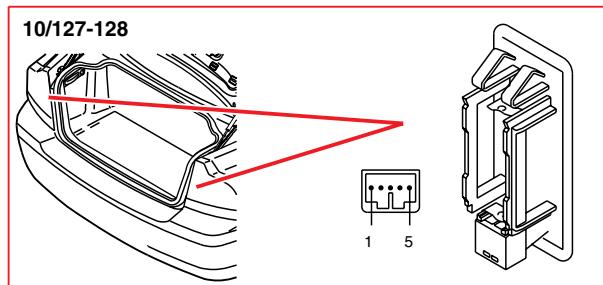
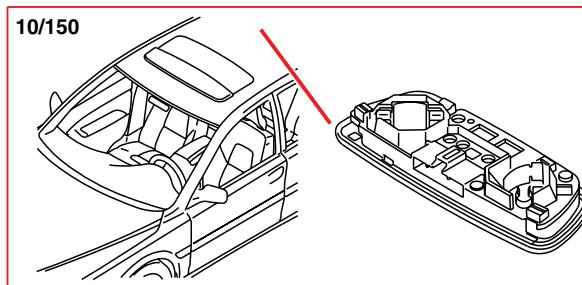
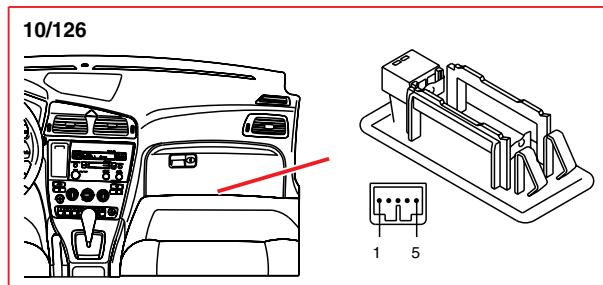
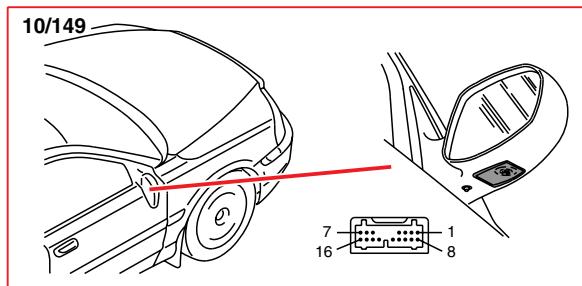
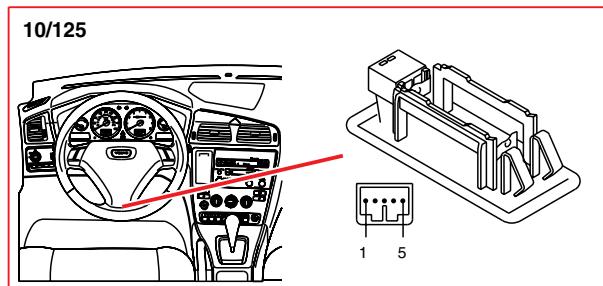
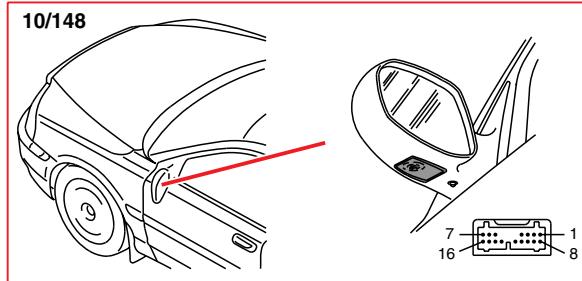
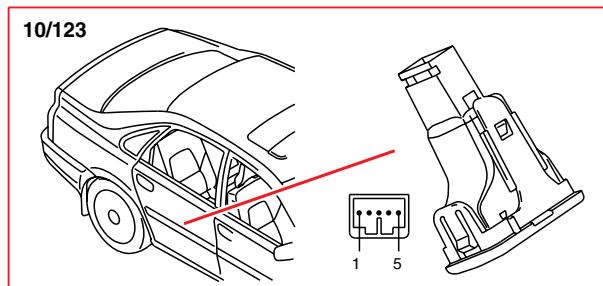
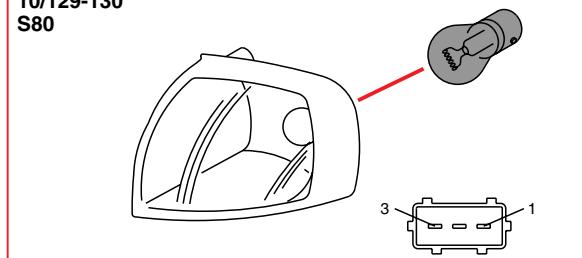


Component illustrations

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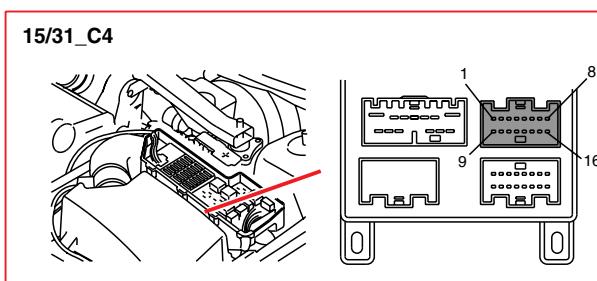
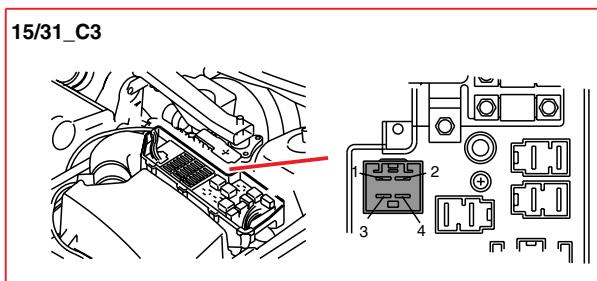
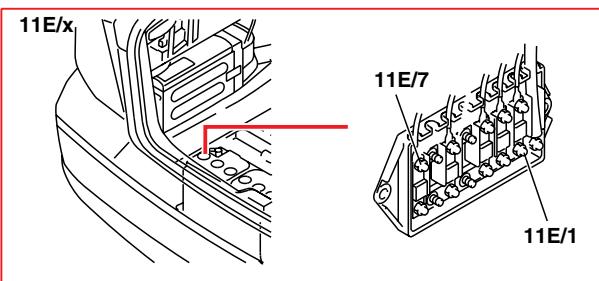
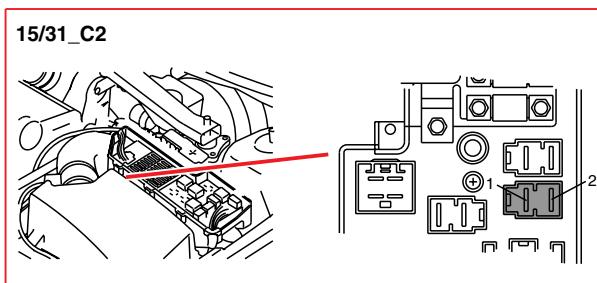
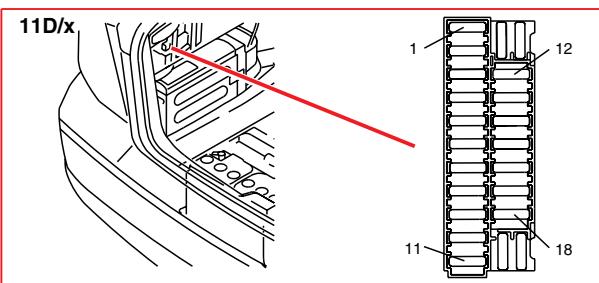
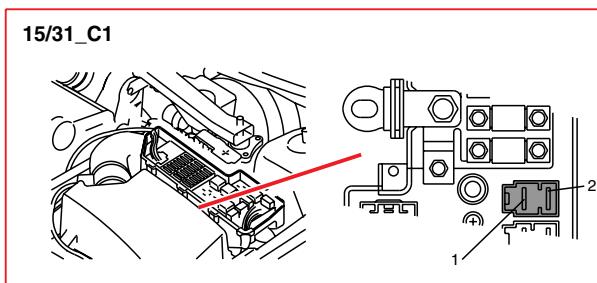
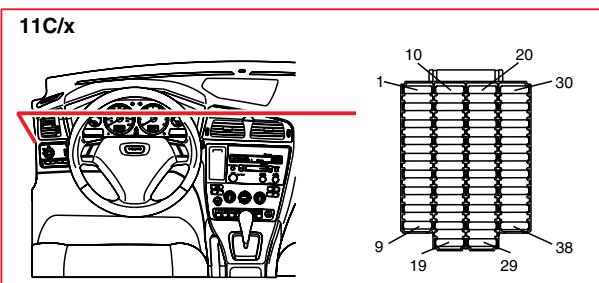
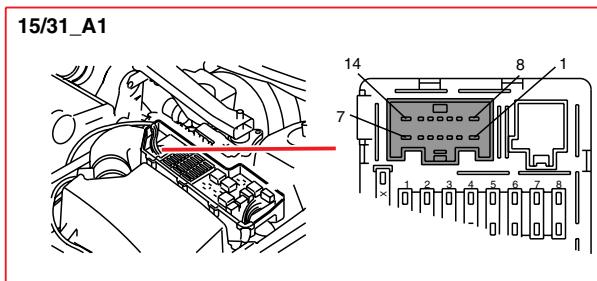
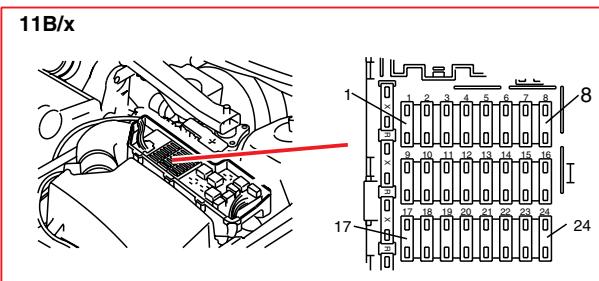
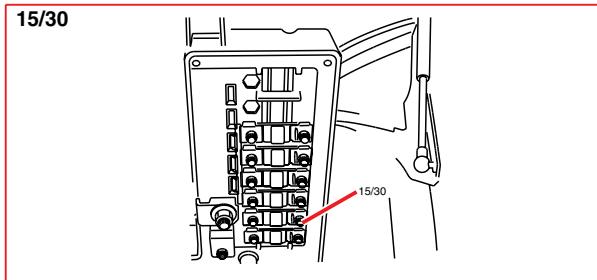
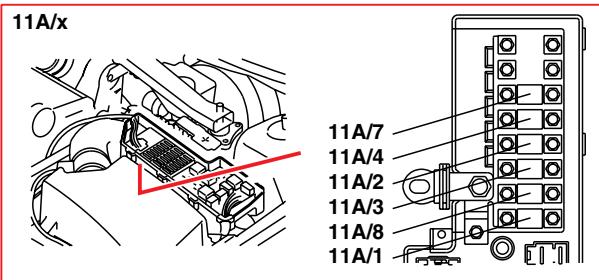


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Component illustrations

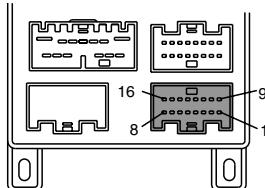
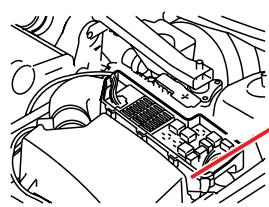
11A - 15/31_C4



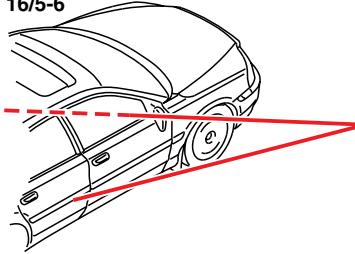
Component illustrations

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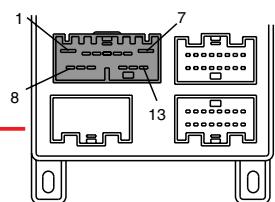
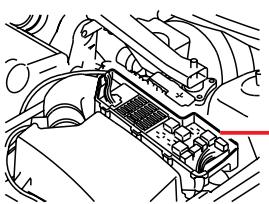
15/31_C5



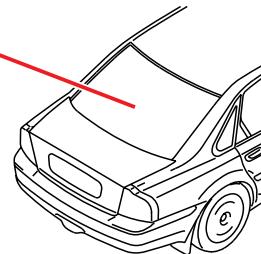
16/5-6



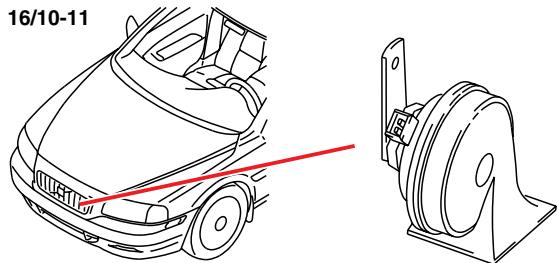
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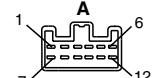
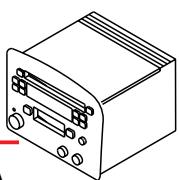
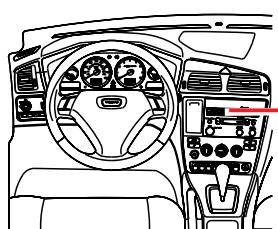
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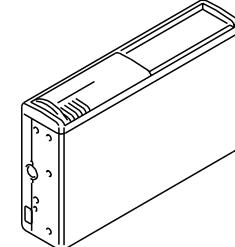
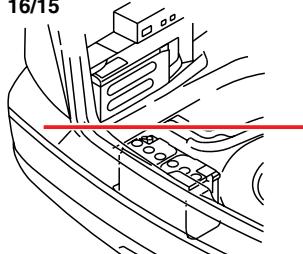
16/10-11



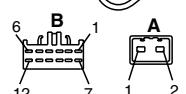
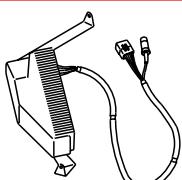
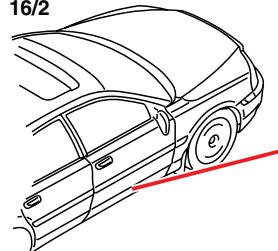
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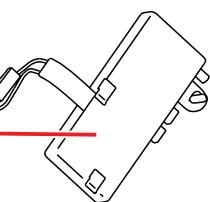
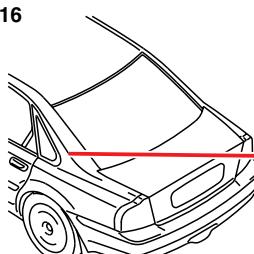
16/15



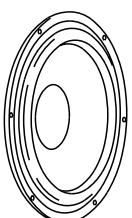
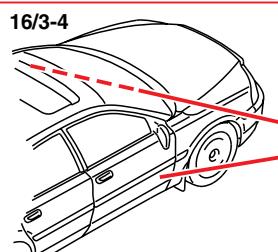
16/2



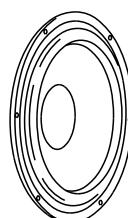
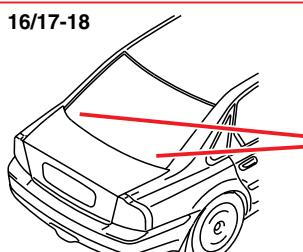
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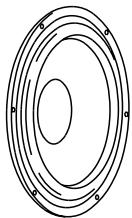
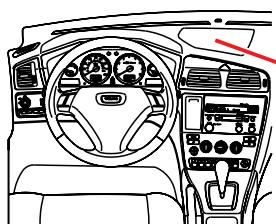
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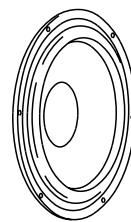
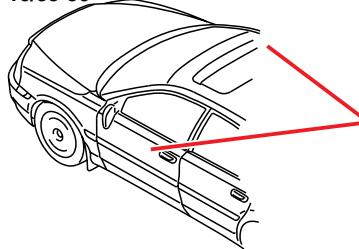
Component illustrations

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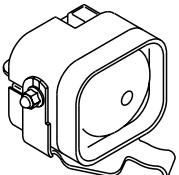
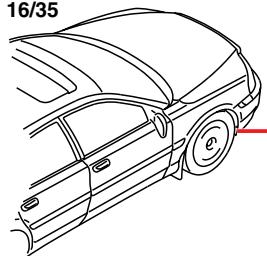
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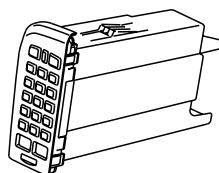
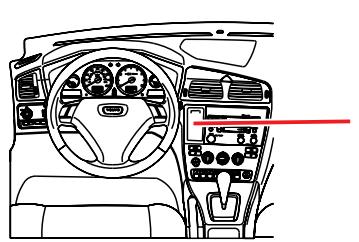


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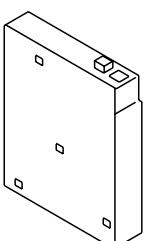
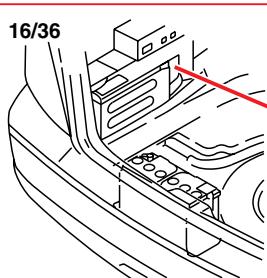


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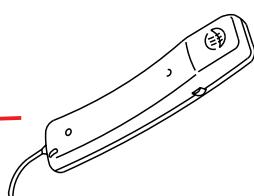
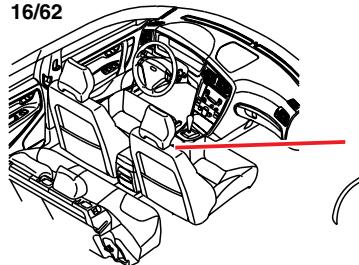
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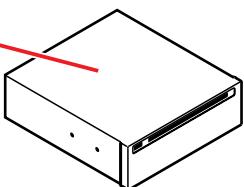
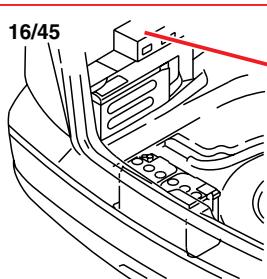
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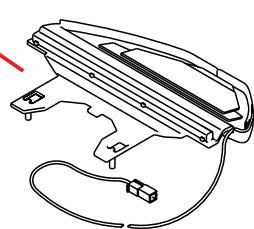
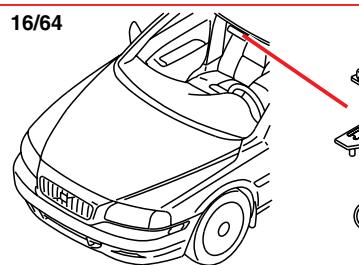
16/62



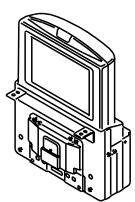
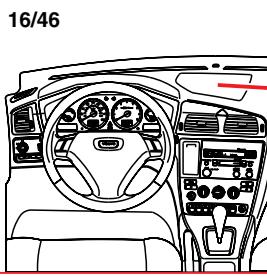
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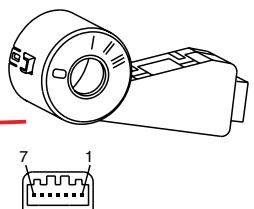
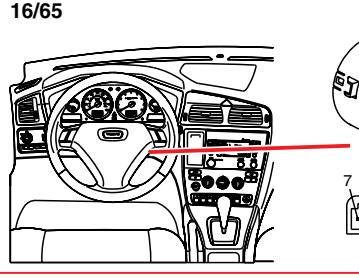
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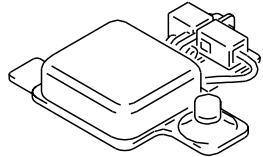
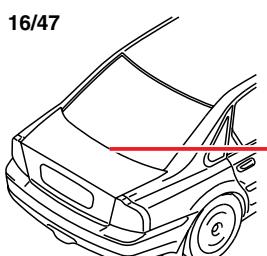
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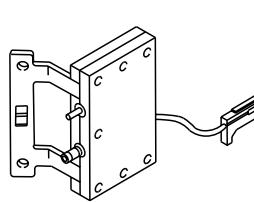
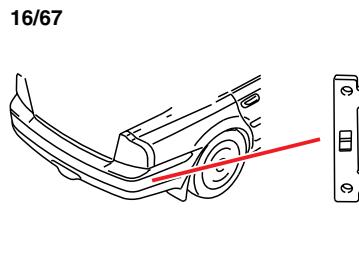
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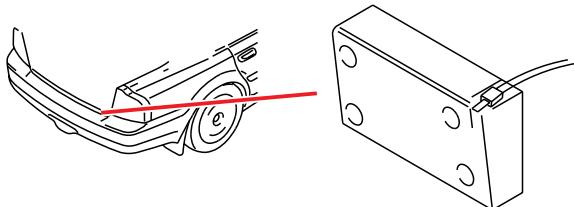
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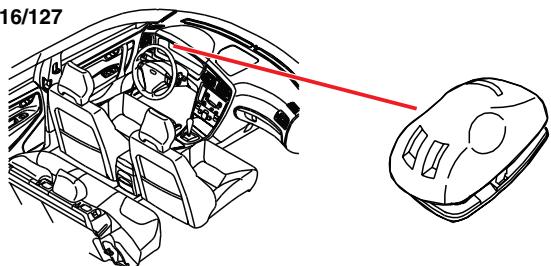
Component illustrations

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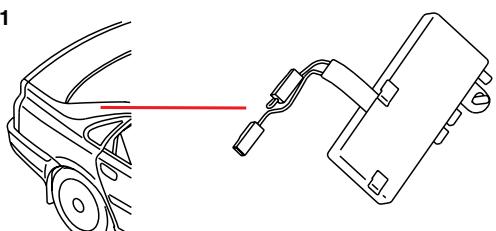
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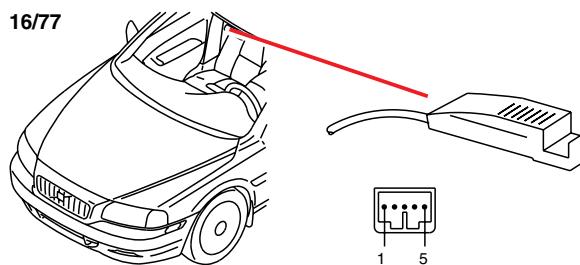
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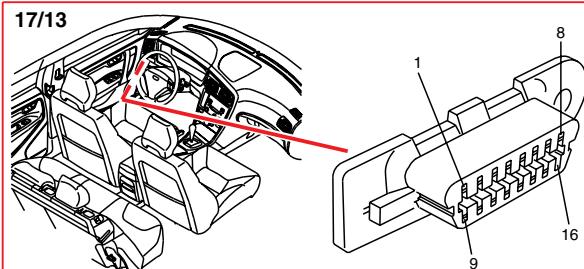
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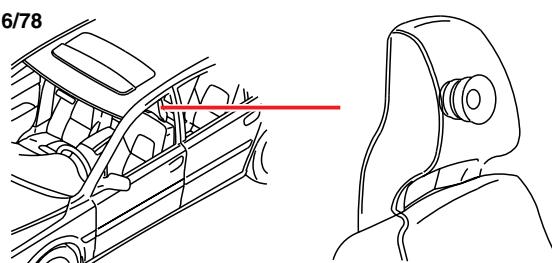
16/77



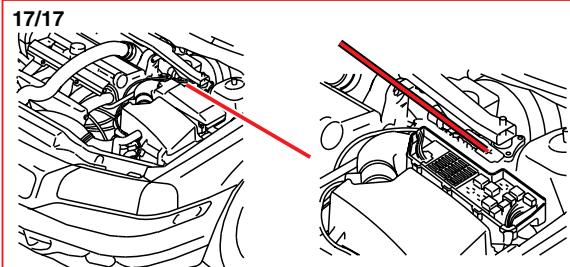
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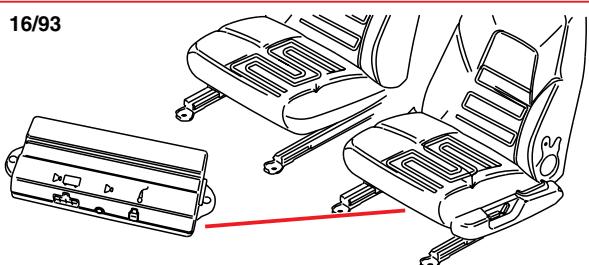
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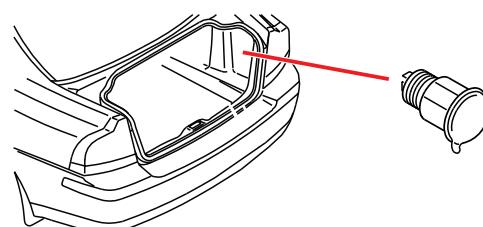
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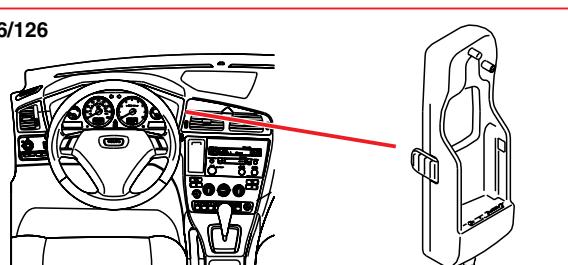
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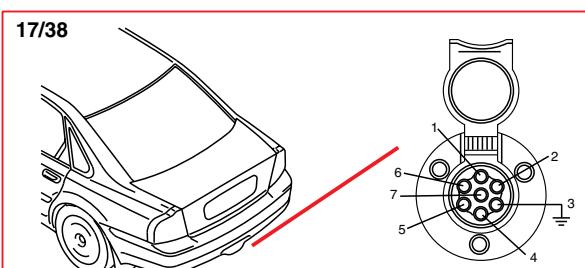
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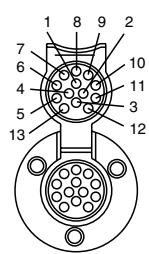
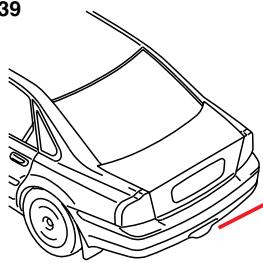
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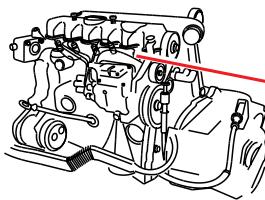
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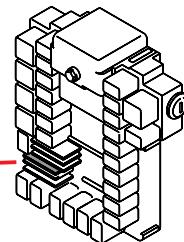
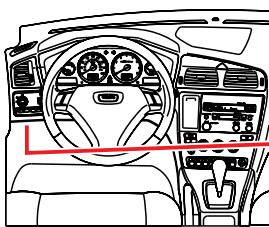
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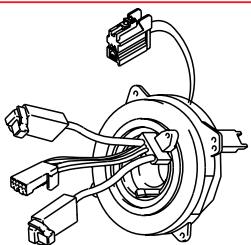
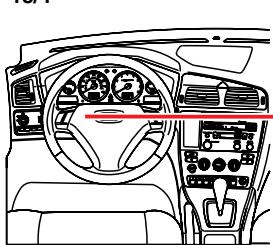
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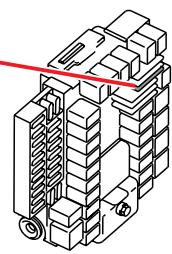
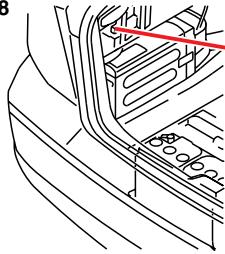
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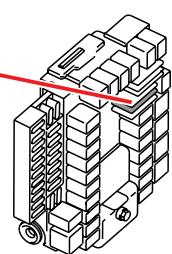
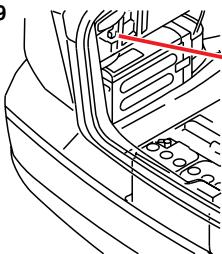
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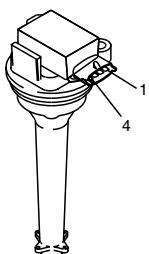
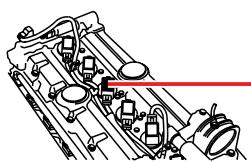
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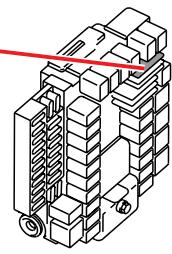
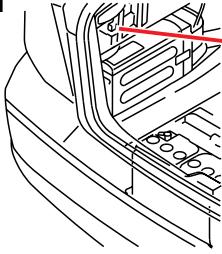
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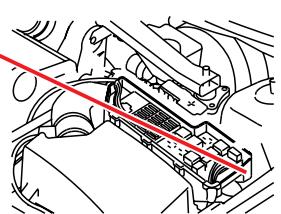
20/3-8 PETROL



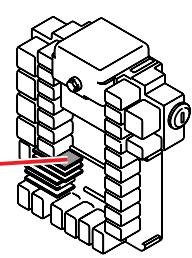
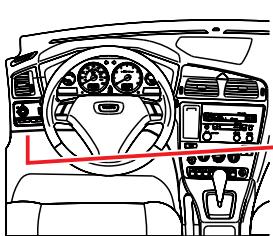
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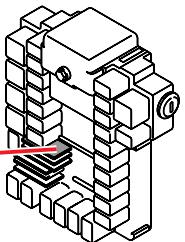
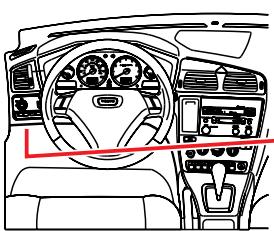
20/32



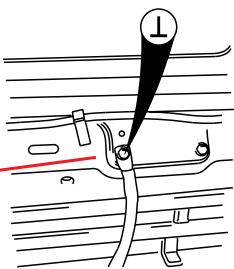
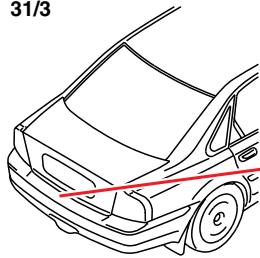
Component illustrations

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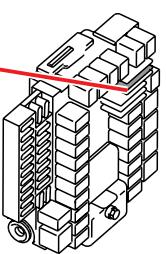
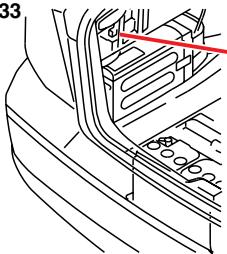
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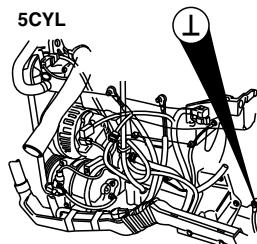
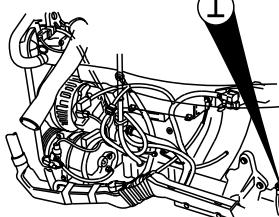
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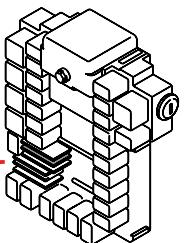
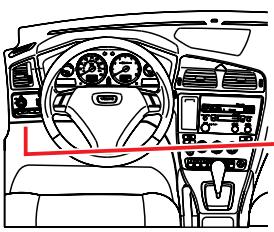
20/33



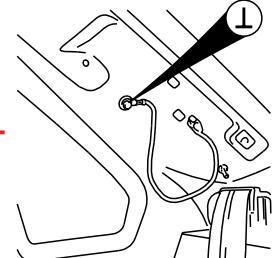
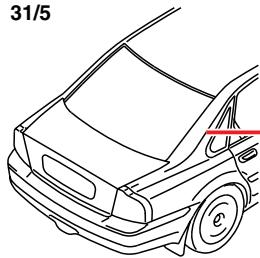
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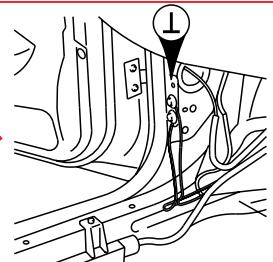
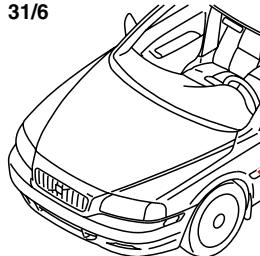
20/34



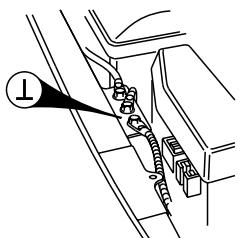
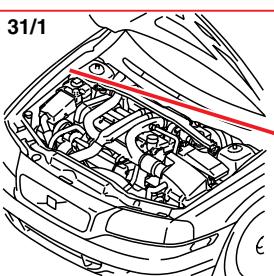
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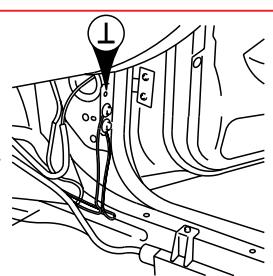
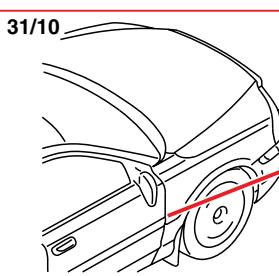
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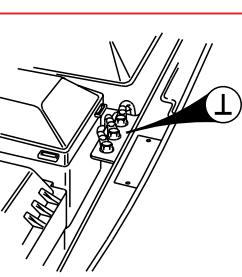
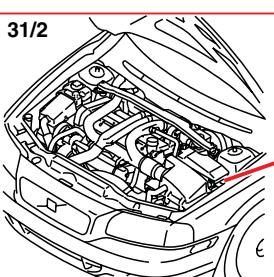
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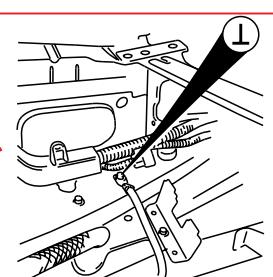
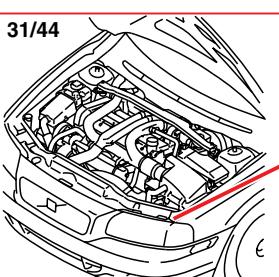
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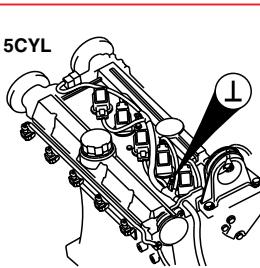
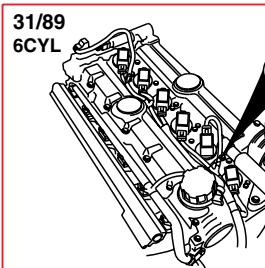
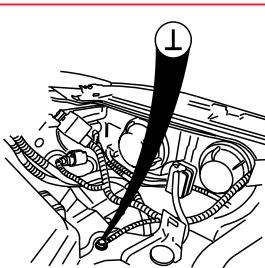
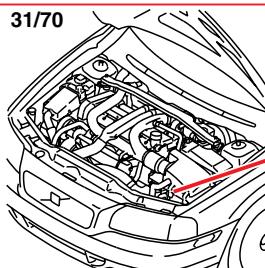
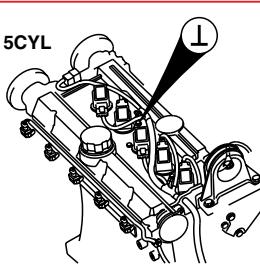
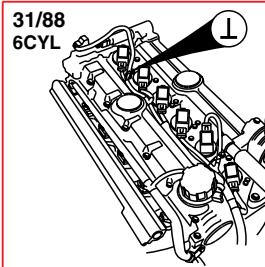
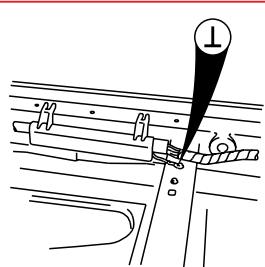
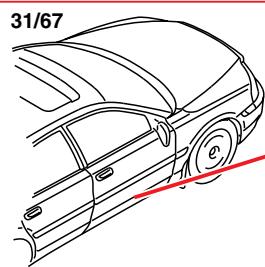
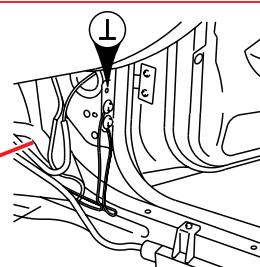
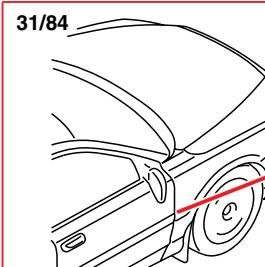
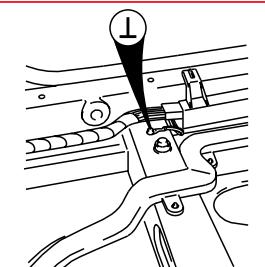
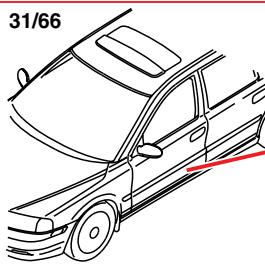
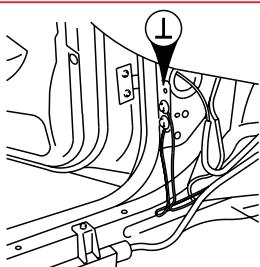
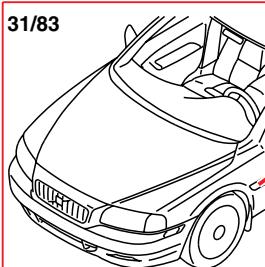
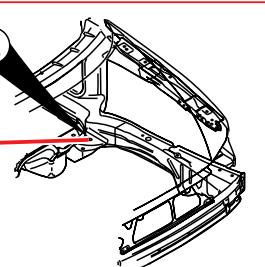
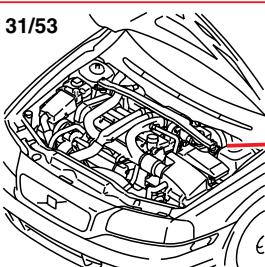
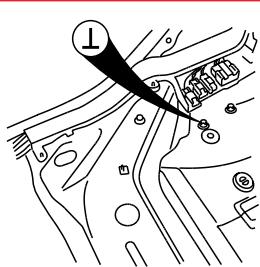
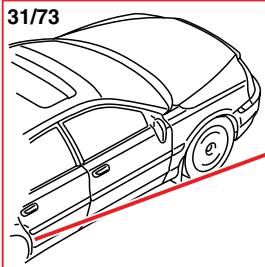
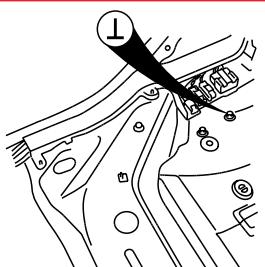
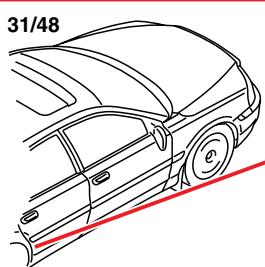
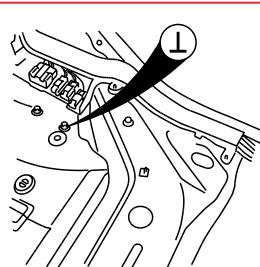
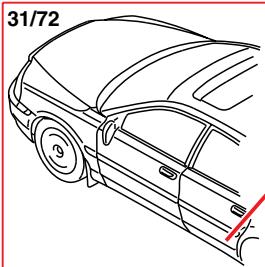
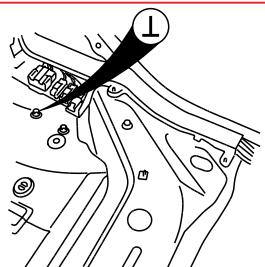
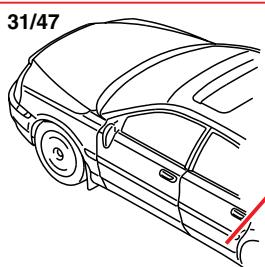


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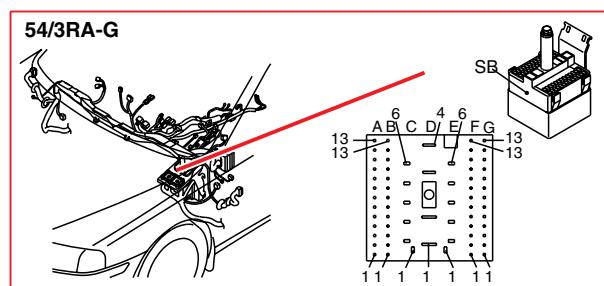
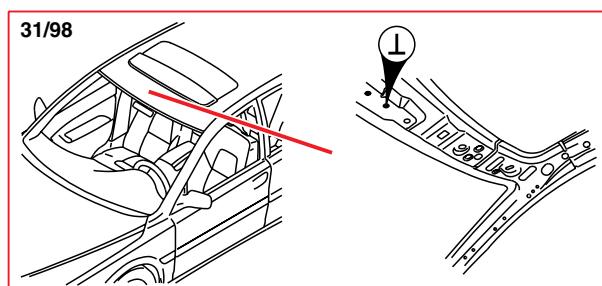
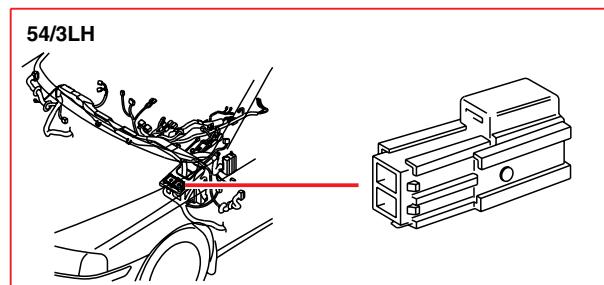
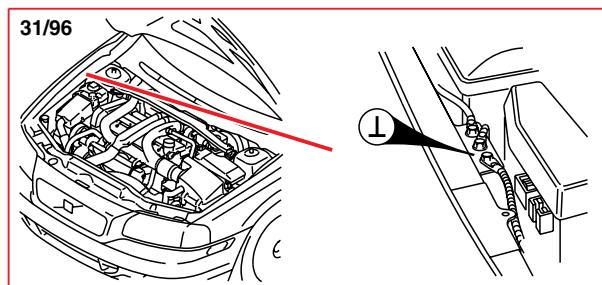
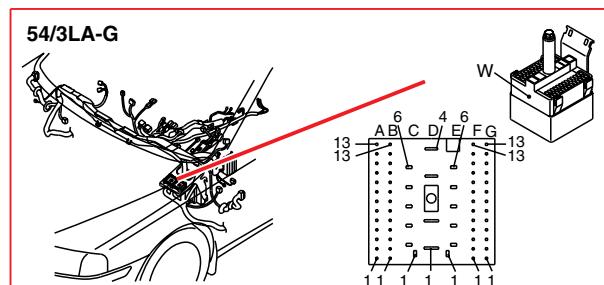
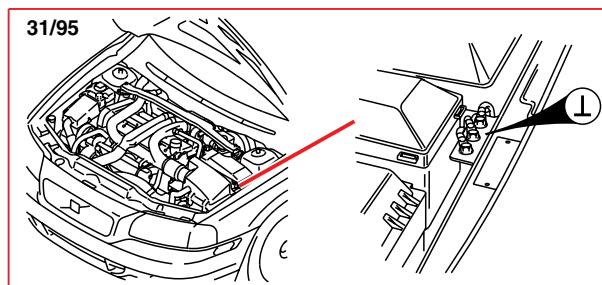
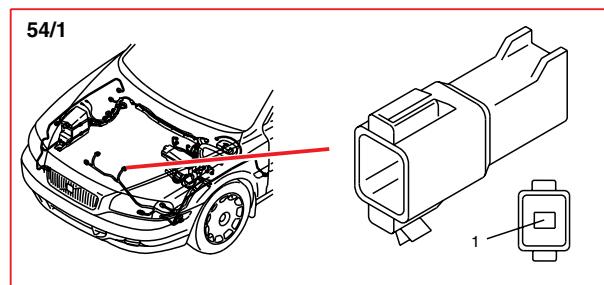
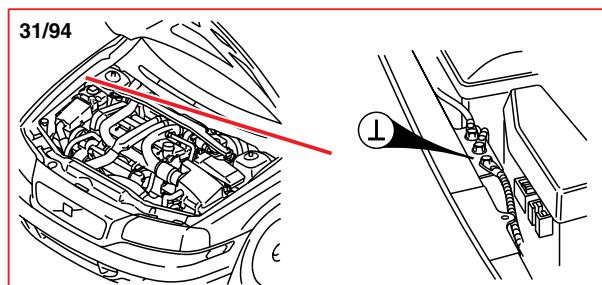
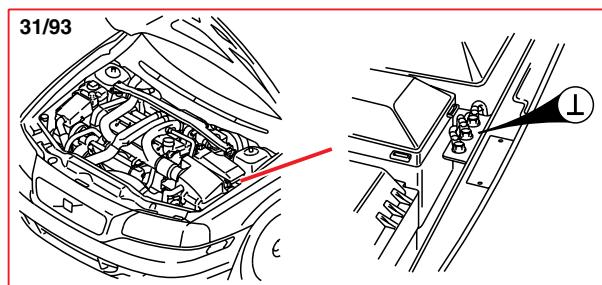
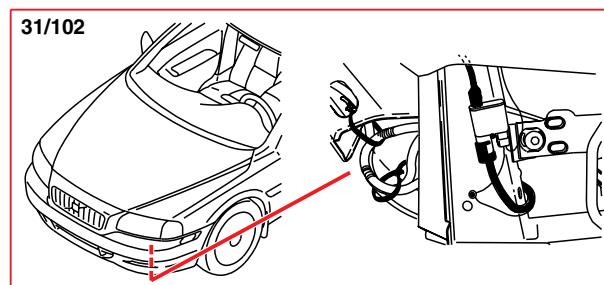
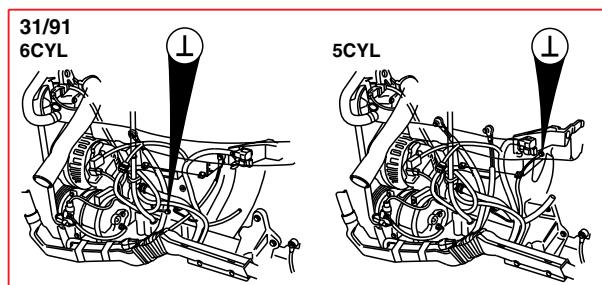
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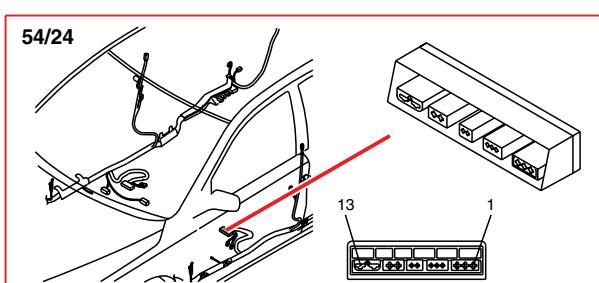
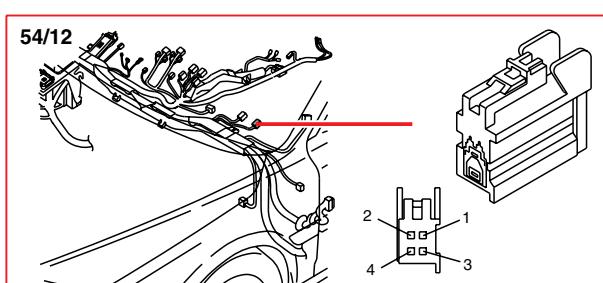
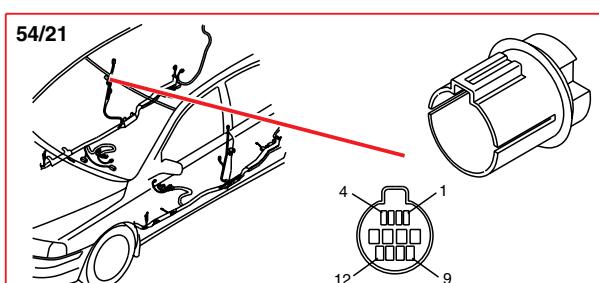
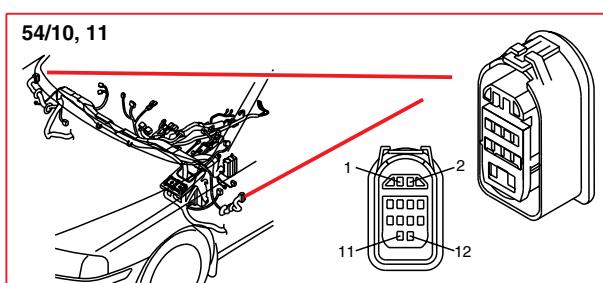
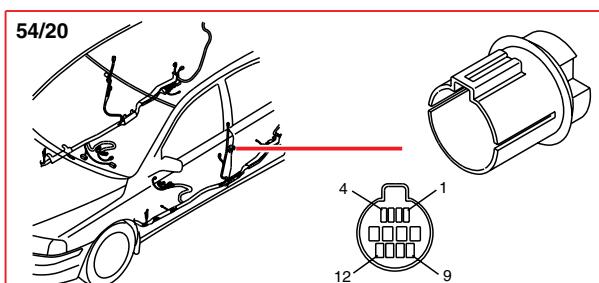
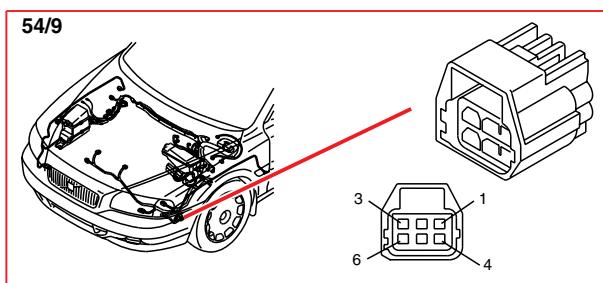
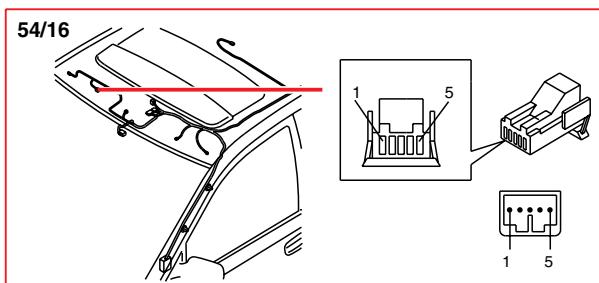
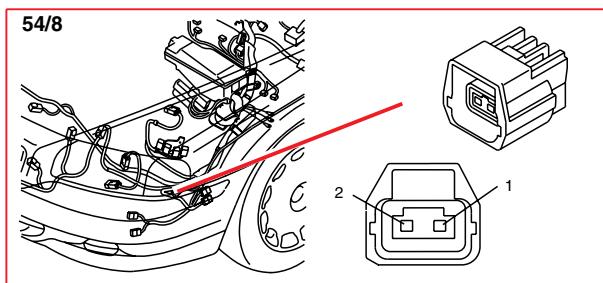
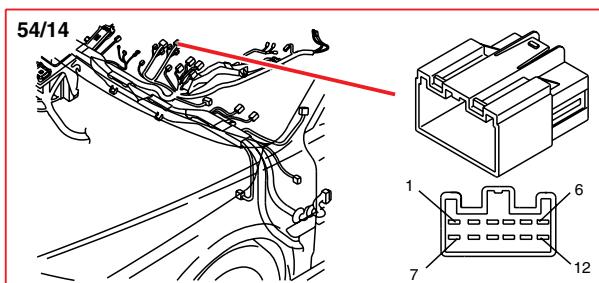
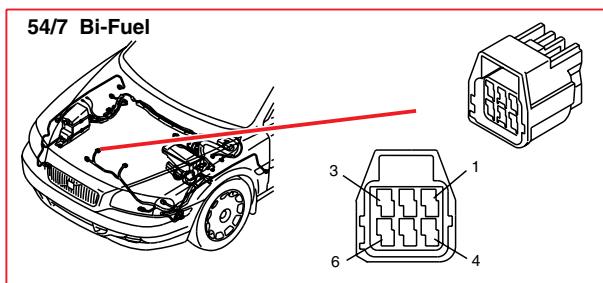
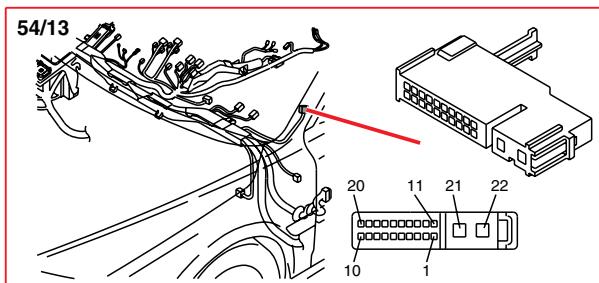
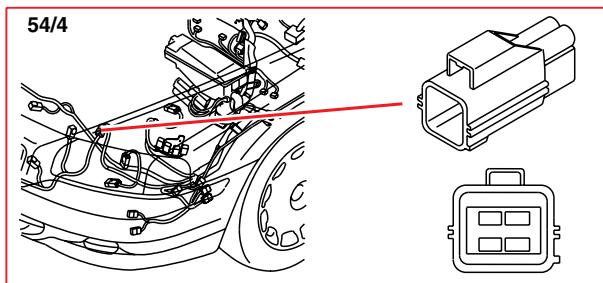


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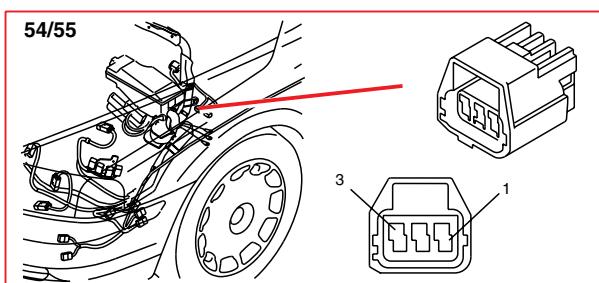
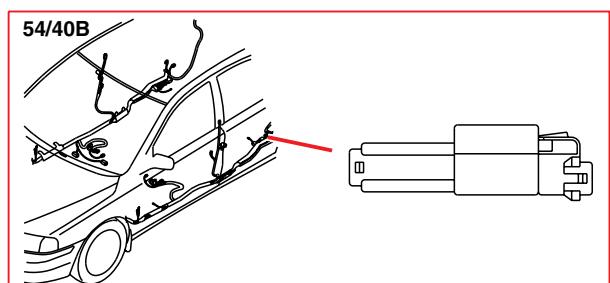
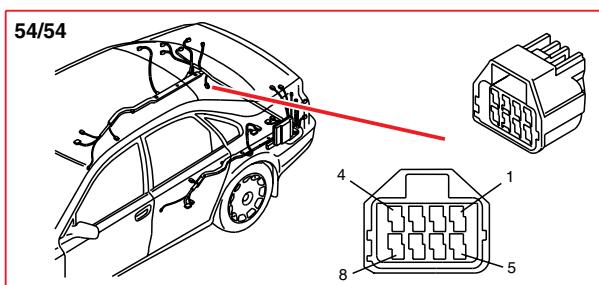
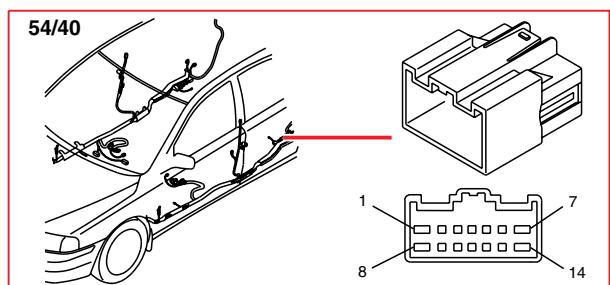
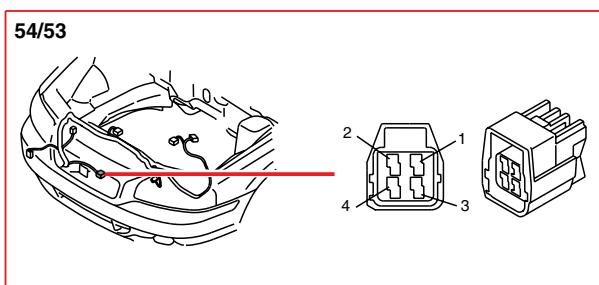
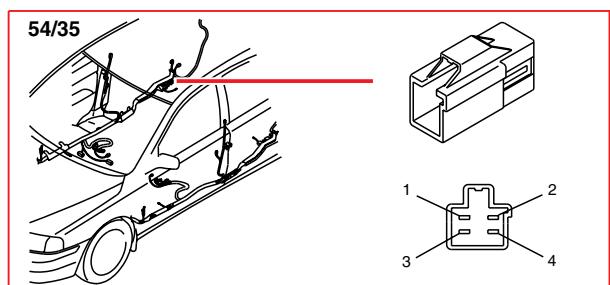
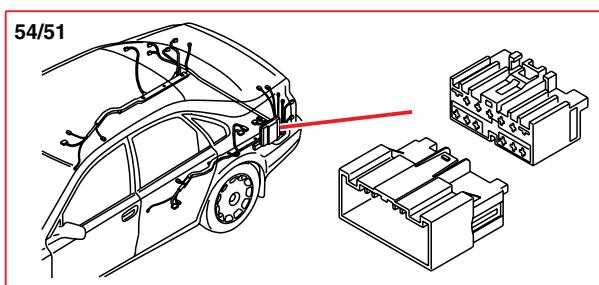
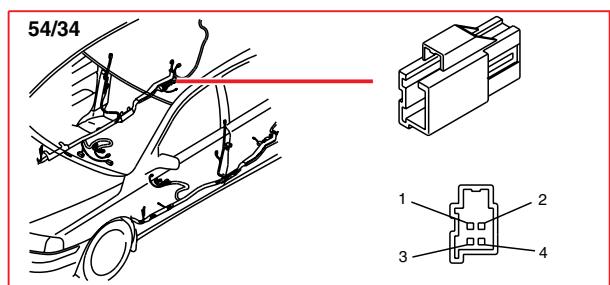
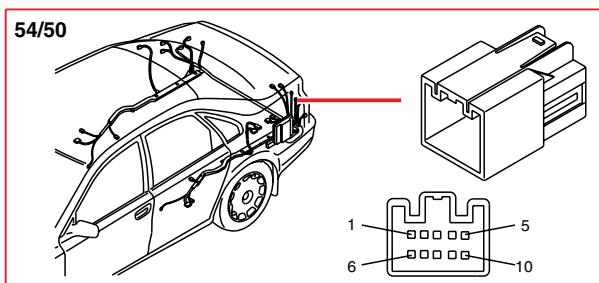
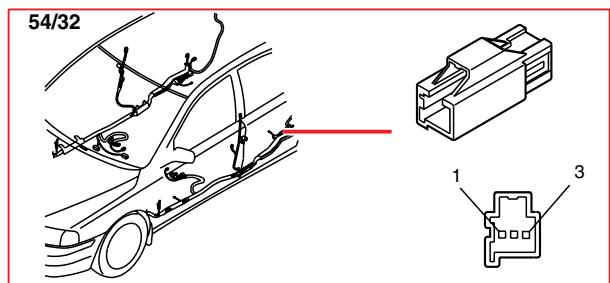
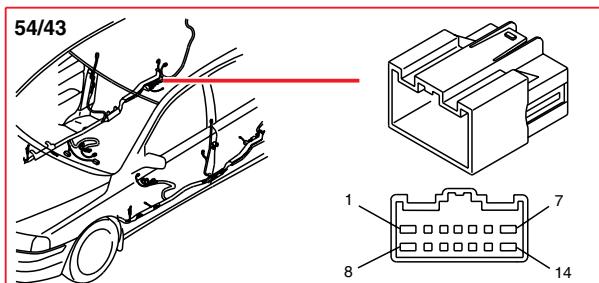
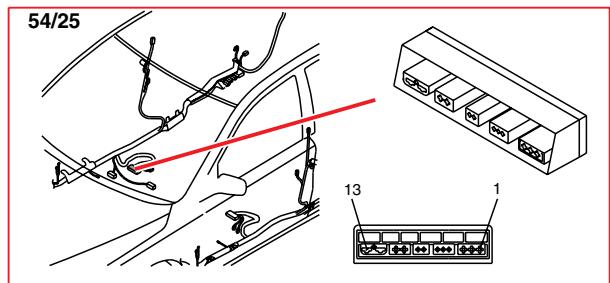


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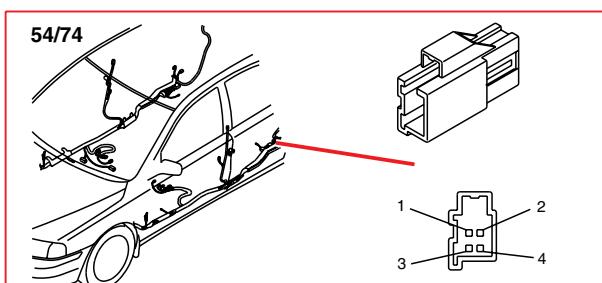
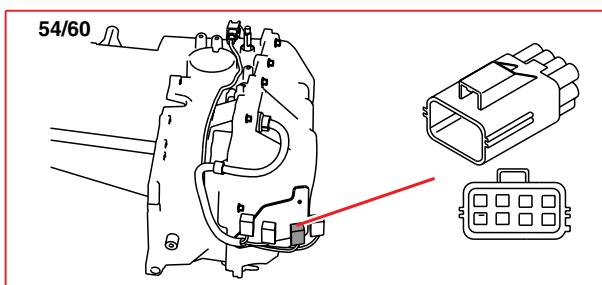
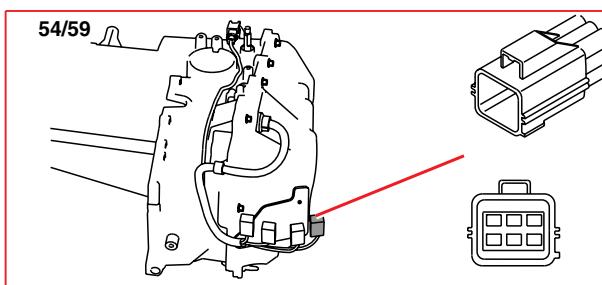
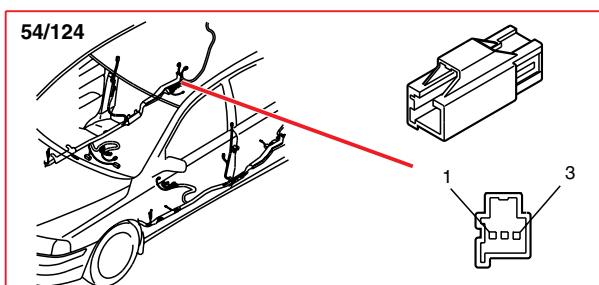
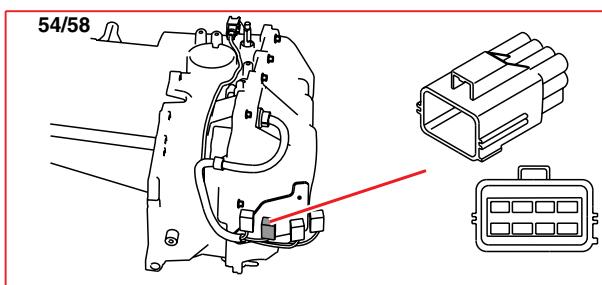
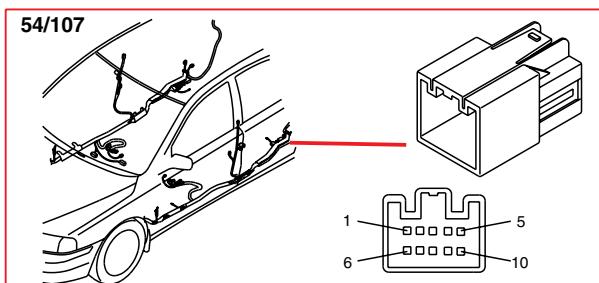
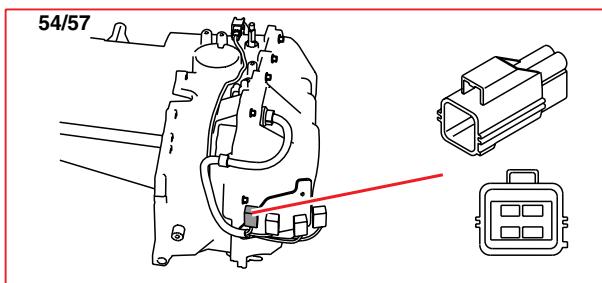
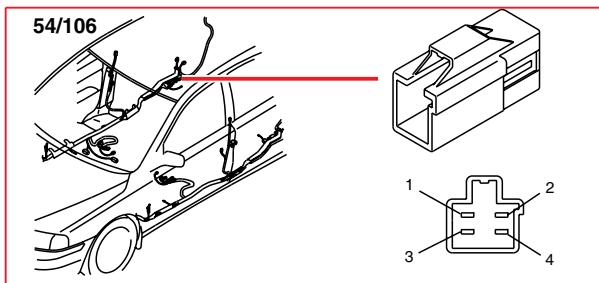
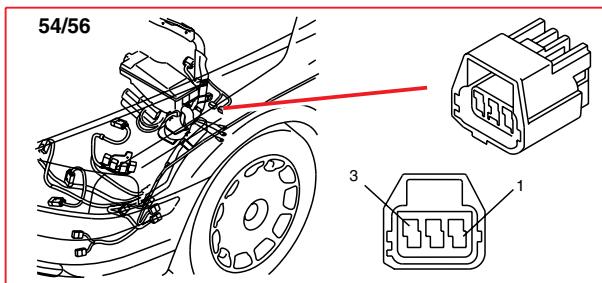


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