

VOLVO

Service Manual

Fault tracing

Repairs

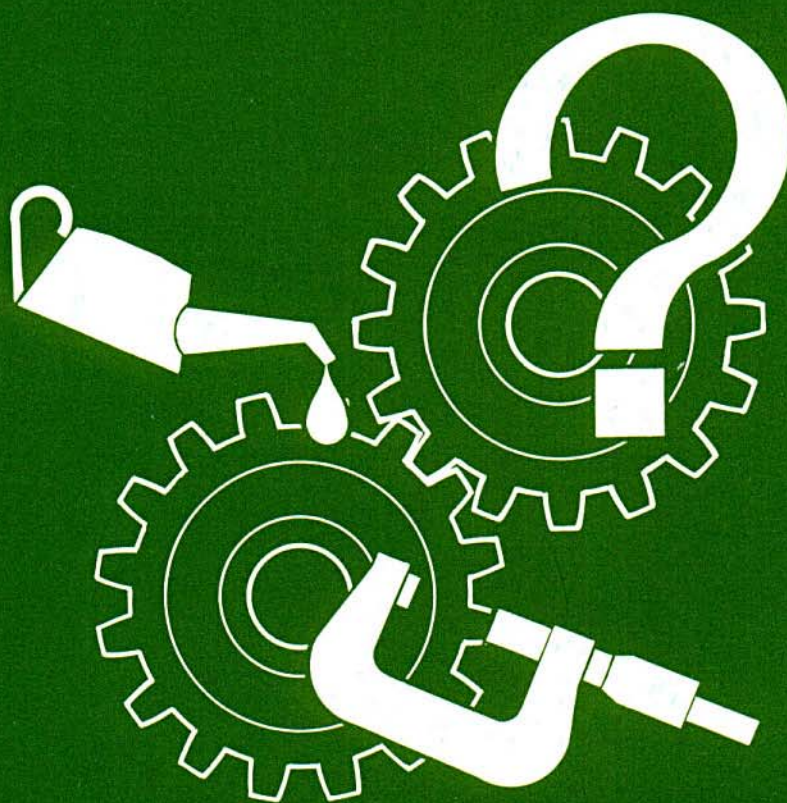
Maintenance

Section 3 (39)

Wiring Diagrams

960 1994

TP 3905202



Volvo Car Corporation

Cars with SRS

Warning

Cars equipped with a Supplemental Restraint System (SRS) must be treated extra carefully when repairs are being made. This is to help prevent:

1. Injuries when carrying out a repair.
2. Damage or malfunction of the SRS system.

Repair to either the SRS itself or a related system or component must be carried out by an authorized Volvo workshop. Refer to the appropriate SRS service manual for complete system information.

Is the car equipped with SRS?

Cars with SRS are most easily recognized by the SRS letters on the steering wheel pad. If the car is also equipped with an air bag on the passenger side, the letters 'SRS' will be embossed on the instrument panel above the glove compartment. Most cars with SRS are also equipped with pyrotechnical seat belt tensioners in the B-posts.

Dashboard or around steering column

Take care to avoid electric wiring being pinched, frayed or pierced by screws when working on firewall, knee bolster, ignition switch, steering column casings, glove compartment, instrument panel, door sills and B-posts.

Driver's seat, centre console or carpeting at left front seat

The SRS collision sensor is located under the left front seat. Do not disconnect the collision sensor connector. Never install accessories on or near the sensor. The crash sensor connector on 1992 and earlier models must **never** be disconnected.

Repairs to steering gear and column

When carrying out repairs to the steering wheel, steering gear or column always follow the repair procedures given in the appropriate SRS service manual. The contact reel in the steering column will be damaged if the steering wheel is turned more than three turns in either direction.

Test terminal

- 1992 : An unused terminal in the fusebox is used as a hook-up for SRS diagnostics. Do not install a fuse or connect an accessory to this terminal.

1993 - : Diagnostic unit B in the engine compartment is used for fault-tracing purposes.

Modifications to September 1993 included

Modifications introduced after the above date are not covered in this manual.
See Service Bulletins as applicable.

Volvos are sold in versions adapted for different markets. These adaptations depend on many factors including legal, taxation and market requirements. This manual may therefore show illustrations and text which do not apply to cars in your country.

Volvo owners planning to export their car(s) to another country should investigate the applicable safety and exhaust emission requirements. In some cases it may be impossible to comply with these requirements.

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Order no. TP 3905032
Supersedes: TP 3905031

Order no. TP 3905202 (USA/CDN)
Supersedes: TP 3905201

We reserve the right to make alterations to specification

How to use the wiring diagrams

Look up the relevant electrical function in the index.
Let us say you want to look at the central locking system.
According to the index, the central locking system is found on page 146.

Here is a schematic presentation of how the components are connected to each other and their internal appearance.

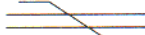
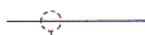
Each component has a component designation.
At the end of the manual there is a component list where you can see what each component is called.

Wire colours are indicated with letters of the alphabet:

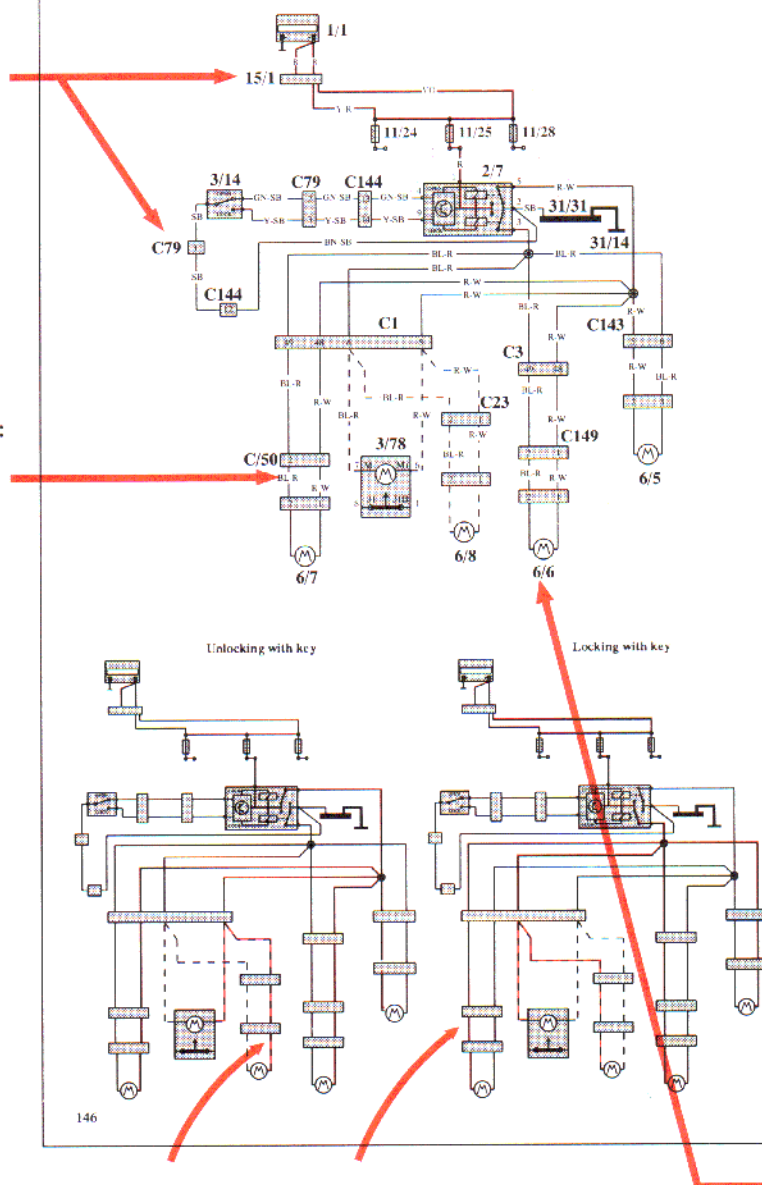
SB = Black	BN = Brown	GN = Green
GR = Grey	Y = Yellow	OR = Orange
W = White	P = Pink	VO = Purple
R = Red	BL = Blue	

BL-R is thus = Blue-red.

Code to colours in the wiring diagram

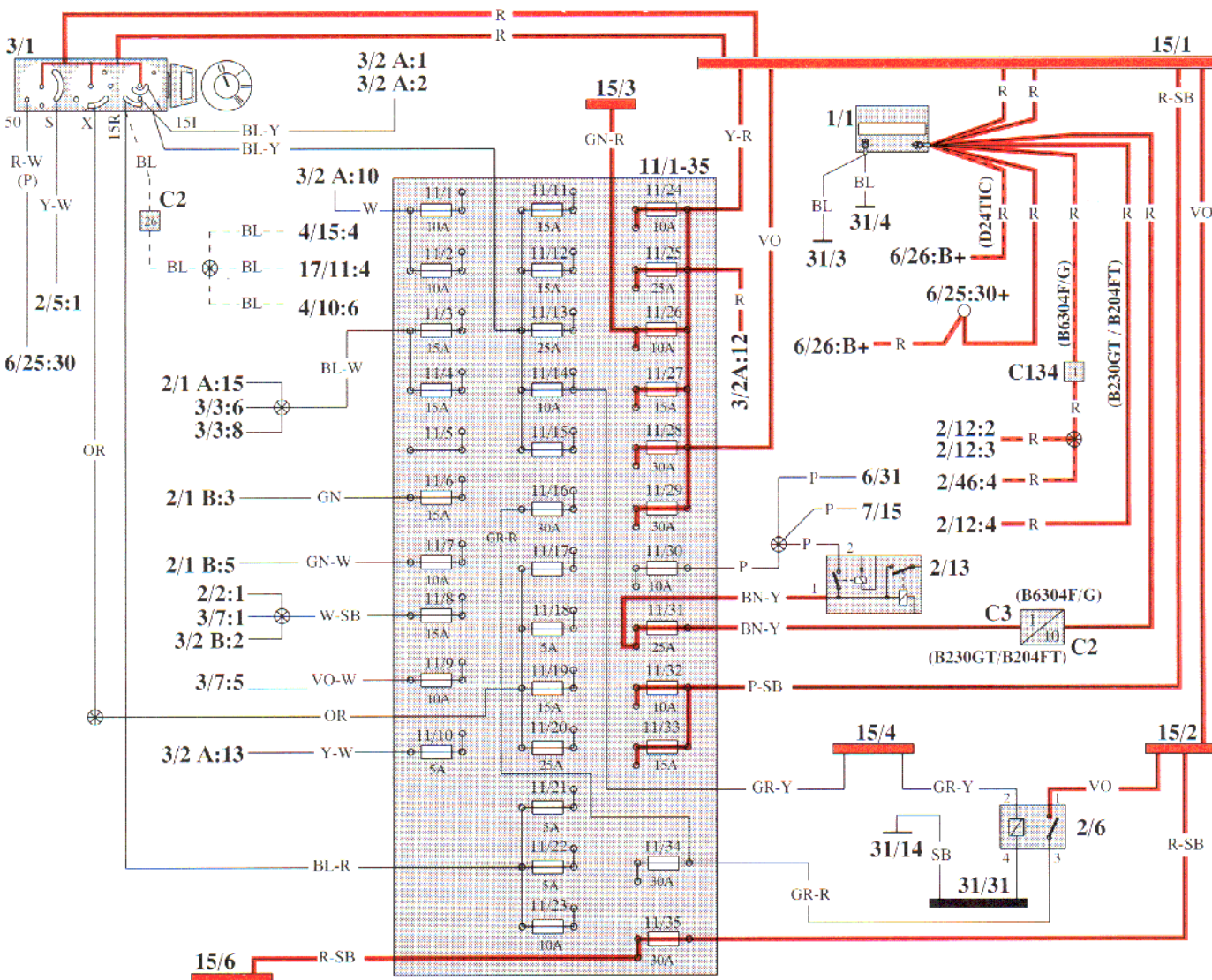
-  = no voltage
-  = system voltage
-  = voltage lower than system voltage
-  = ground connection
-  = intertwined wires
-  = screened wire

Central locking



Here you see the voltage under operational conditions.

Fuses

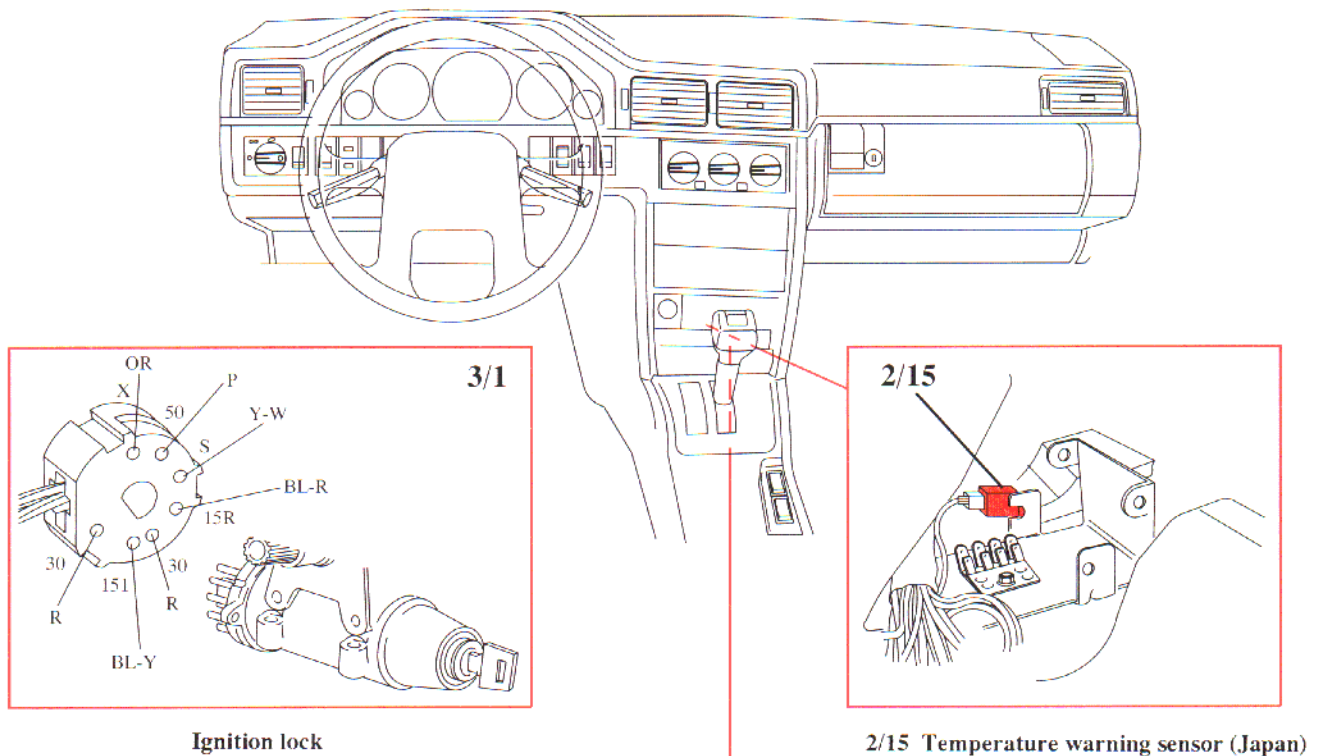


Fuse no.	Functions
1	Parking light Number plate light
2	Parking light
3	Left high beam
4	Right high beam
5	Spare
6	Left low beam Left beam width control
7	Right low beam Right beam width control
8	Fog lights, front
9	Fog lights, rear
10	Instrument and control lighting
11	Backup (reversing) lights Turn signals Cruise control
12	Reduced intensity low beam (DIM-DIP) P-shift lock (automatic transmission)
13	Heated rear window Heated door mirrors
14	15-rail in relay unit - Bulb malfunction indicator, rear - Exhaust temperature sensor (Japan) - Overdrive - Key reminder (USA/CDN) - Anti-theft alarm (pre-routed wiring)

Fuse no.	Functions
14	- Power window lifts - Power sunroof - Seat belt reminder - Overload relay 15I
15	Spare
16	Heated seats
17	Spare (accessories)
18	Radio
19	Climate unit ECC Power door mirrors Tailgate wash/wipe Ambient temperature gauge Power seats Cigar lighter
20	Horn Windshield wash/wipe Headlight wash/wipe
21	Glowplug, diesel Mode selector (AW30-40/43) Fuel valve, diesel EGR-system, diesel Turbo control valve, TCU
22	ABS
23	Supply to control modules for - Automatic transmission AW30-40/43 - Motronic (MFI) Relay, ignition coil (Motronic MFI)
24	Control module, Motronic (MFI) Control module AW30-40/43

Fuse no.	Functions
25	Hazard warning flashers Central locking Anti-theft alarm (pre-routed wiring)
26	30-rail in fuse unit - Clock - Interior lighting - Door-open warning lights - Vanity mirror light - Glove compartment light - Trunk light - Reading lamps - Anti-theft alarm (pre-routed wiring)
27	Brake lights Control module AW-30-40/43, brake signal P-shift lock (automatic transmission) Control module ABS, brake signal
28	Heater fan ECC Climate unit ECC
29	Power antenna Trailer
30	Fuel primer pump Heated oxygen sensor (HO2S)
31	Relay, fuel injection (MFI) Fuel pumps Distributor ignition (DI) system, EZ-116K
32	Spare
33	Radio
34	Power window lifts Power sunroof
35	Power seats

Ignition lock and relay unit



Inputs

30: two inputs from the battery via the positive terminal

Outputs

Key position

0 Switched off

I Radio position

II Driving position

III Start position

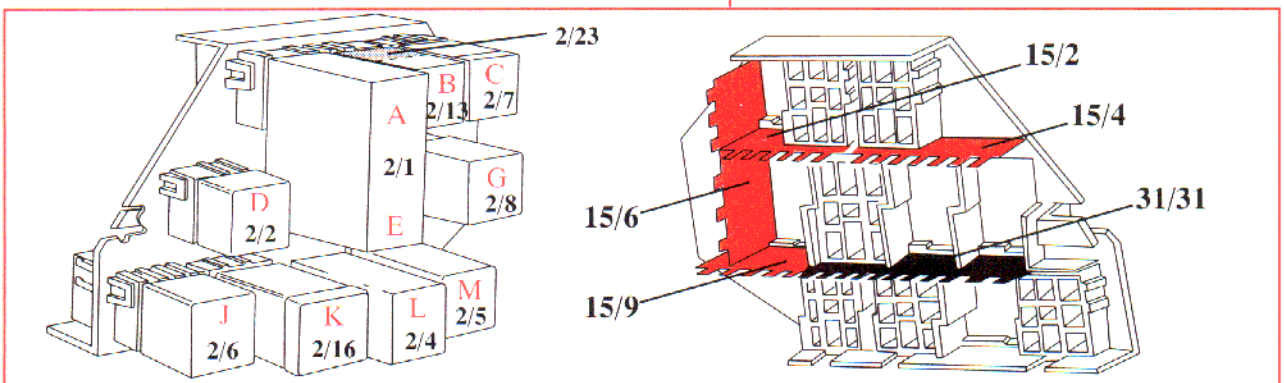
Voltage at connector:

S

X,S

X,15R,15I,S

15R,50,S



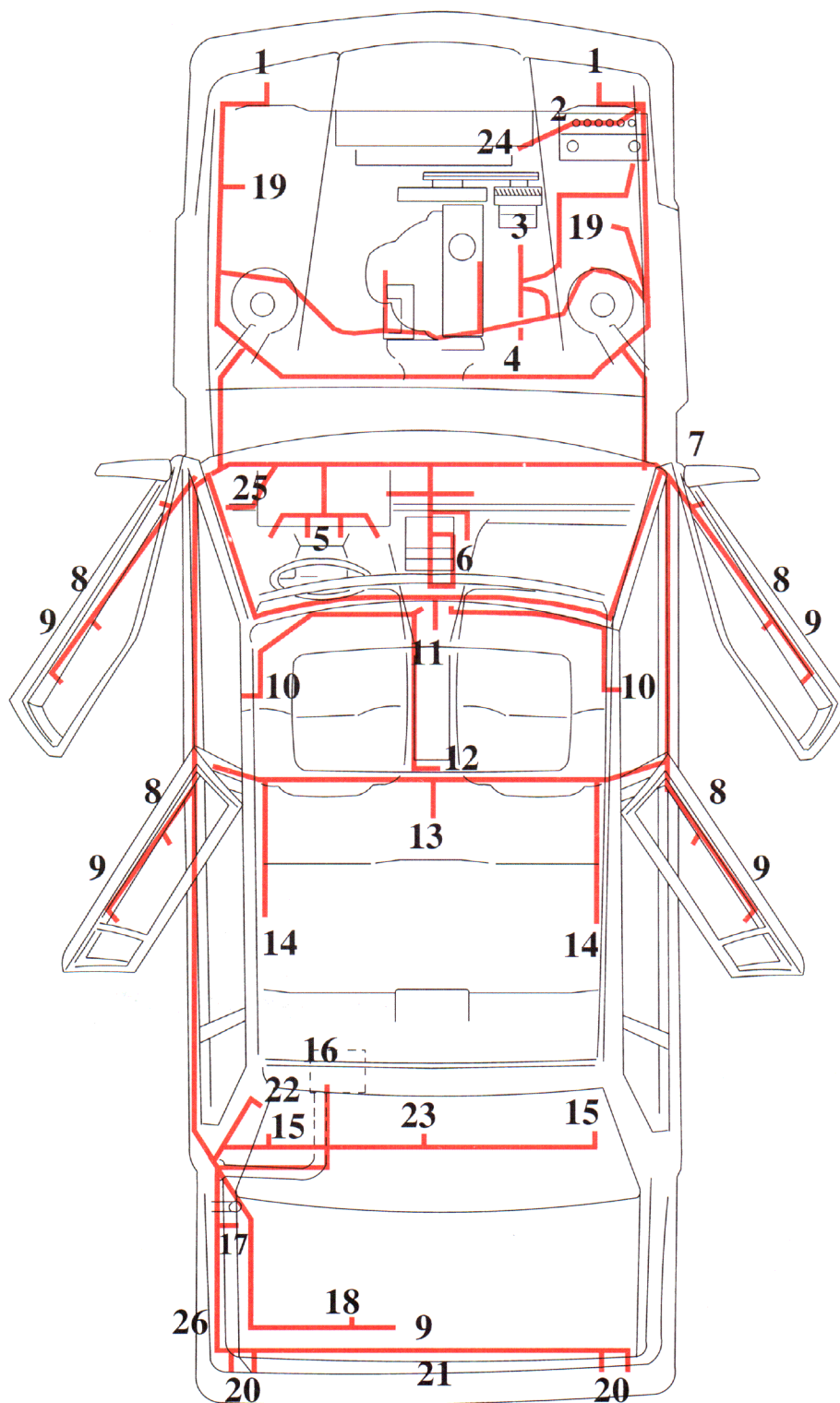
- A and E Headlight relay with bulb malfunction indicator (2/1)
- B Relay, fuel injection (2/13)
- Relay, fuel pump (2/23)
- C Central lock relay (2/7)
- D Foglight relay (2/2)
- F Bulb malfunction indicator, front (7/2)
- G Overdrive relay (2/8)
- J Bypass relay 15I (2/6)
- K Intermittent relay, tailgate wiper (2/16)
- L Intermittent relay, windshield wiper (2/4)
- M Seat belt reminder (2/5)

- 15/2 30-rail (6-pole)
- 15/4 15I-rail (7-pole)
- 15/6 Fused 30-rail (6-pole)
- 15/9 X-rail (5-pole)
- 31/31 Ground connection rail (11-pole)

Wiring harnesses

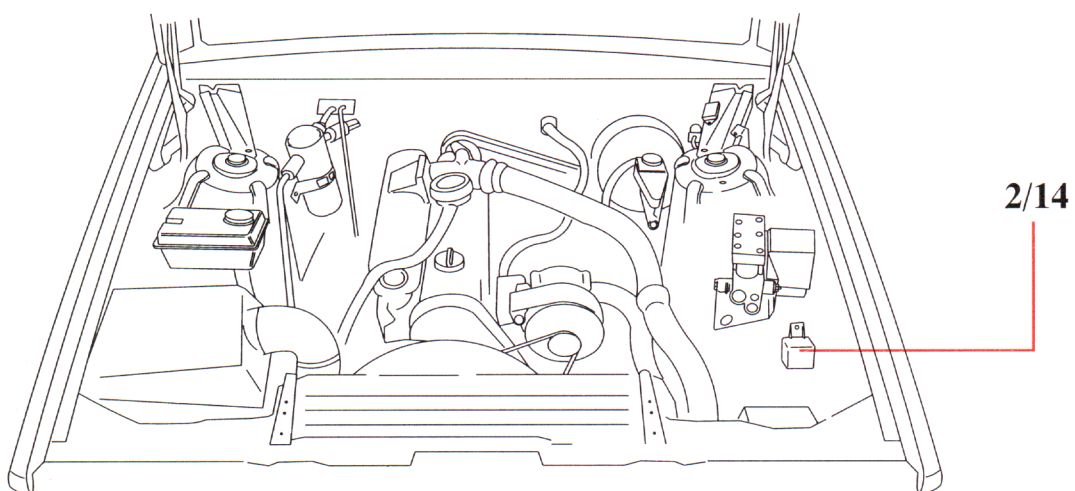
Wire routing

Main wiring harness routing is indicated in the diagram.

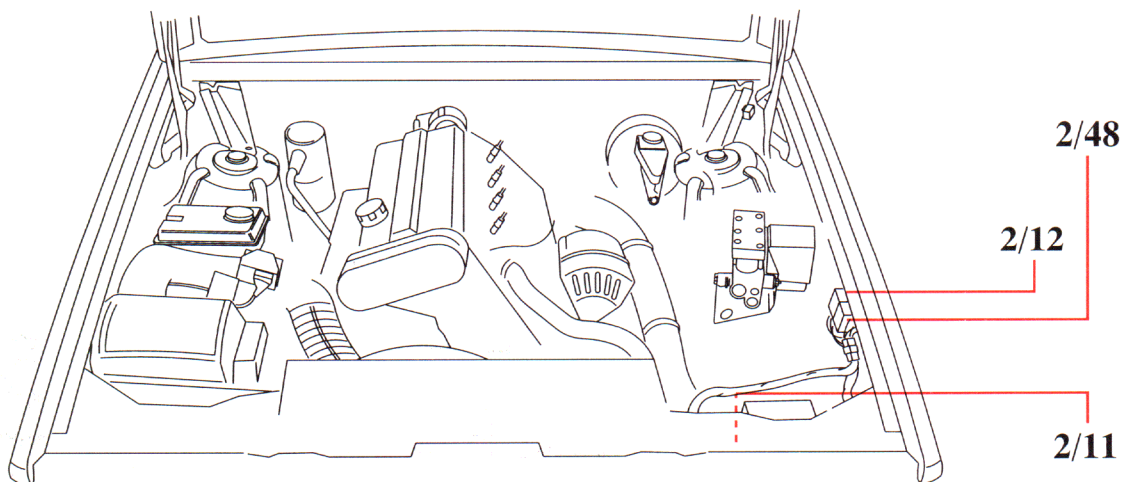


Relay location in engine bay

- 2/11 Relay, engine cooling fan
- 2/12 Relay, injection valves
- 2/14 Relay, glow plug
- 2/48 Blocking relay A/C

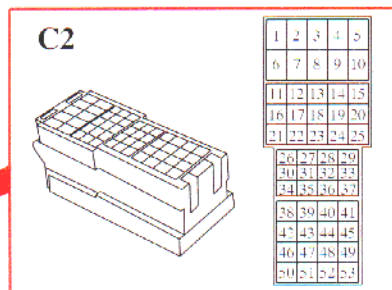
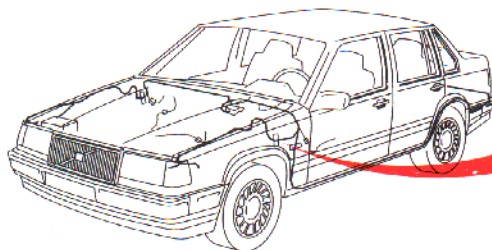


D 24 TIC



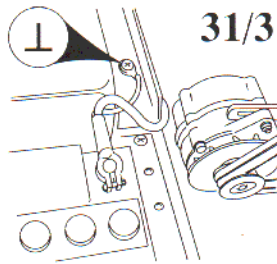
B 204 FT

Connector left A-post (wheel housing harness) Black (SB)

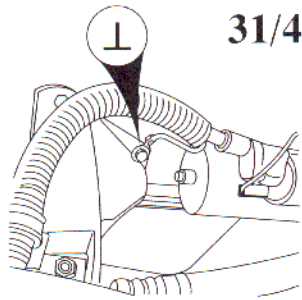


B6304F/G			D24TIC		
1	Starter motor 50 Relay, P-shift lock	(P) (P-SB)	Starter motor 50	(BL-GN)	
2	High beam left	(BL-W)	High beam left	(BL-W)	
3	Low beam left Beam width control	(GN) (BN-GN)	Low beam left Beam width control	(GN) (BN-GN)	
4	Windshield wiper motor pos. 1 Horn Headlight wiper motor left (not USA/CDN)	(Y)	Windshield wiper motor pos. 1 Horn Headlight wiper motor left	(Y)	
5	Windshield wiper motor pos. 2	(BN)	Windshield wiper motor pos. 2	(BN)	
6	Windshield wiper motor pos. 3	(GN-SB)	Windshield wiper motor pos. 3	(GN-SB)	
7	Test socket B (On-board diagnostic OBD system) pos. 6	(W)	Diagnostic socket B (OBD) pos. 6	(W)	
8	Fog lights, auxiliary lights	(W-SB)	Foglight, auxiliary lights	(W-SB)	
9	Windshield wiper motor pos. 4	(BL)	Windshield wiper motor pos. 4	(BL)	
10	Control module timing connector B pos. 10 Control module cruise control pos. 7	(Y-BN)			
11	DTC B pos. 5	(GR-OR)	Diagnostic socket B (OBD) pos. 5	(GR-OR)	
12	Turn signal left	(GN)	Turn signal left	(GN)	
13	Parking light left	(W)	Parking light left	(W)	
14	Horn (pre-routed wiring for anti-theft alarm)	(BN-OR)	Horn (pre-routed wiring for anti-theft alarm)	(BN-OR)	
15	Control module Motronic (MFI) pos. 41	(Y-GR)	Relay, glowplug pos. A:4 Fuel valve via connector C50 pos. 3	(BL-GN) (BL-GN)	
16	DTC A pos. 3	(BL-P)	Relay, glowplug mechanism pos. A:1	(OR)	
17	Washer motor Headlight wiper motor left (not USA/CDN)	(BL-R)	Washer motor Headlight wiper motor left	(BL-R)	
18	Brake fluid level warning	(GR-W)	Brake fluid level warning	(GR-W)	
19	Engine coolant temperature (ECT) sensor +	(Y-W)	Engine coolant temperature (ECT) sensor +	(Y-W)	
20	Oil pressure sensor	(SB)	Oil pressure sensor	(SB)	
21	Generator D+	(R)	Generator D+	(R)	
22	Control module ABS pos. 15	(R)	Control module, ABS, pos. 15	(P)	
23	Windshield wiper motor pos. 1	(Y)	Windshield wiper motor pos. 1	(Y)	
24	Preheating heated oxygen sensor (HO2S)	(P)	Service socket 50	(P)	
25	Connector C131 pos. 35	(BL-SB)			
26	Connector C131 pos. 30	(GR-SB)			
27	+15 supply controlsystem for fuel injection timing and DTC diagnosis	(BL)	DTC socket A (OBD) pos. 4	(BL)	
28	Horn -	(BN-SB)	Horn	(BN-SB)	
29	Beam width control (not USA/CDN)	(GR)	Beam width control	(GR)	
30	Washer fluid level sensor pos. 1	(BL-W)			
31	Engine coolant temperature (ECT) sensor -	(BN-GR)	Engine coolant temperature (ECT) sensor -	(BN-GR)	
32	Tailgate washer pump	(BL-Y)			
33	Control module, Motronic, pos. 40	(GN-Y)	Solenoid coupling A/C compressor	(GN-Y)	
34	Control module, Motronic, pos. 3	(BN-P)	Pressure monitor, turbo	(Y-R)	
35	Motronic pos. 6	(R-W)	Generator W+	(R-W)	
36	Control module, cruise control pos. 5	(VO-W)	Control module, cruise control pos. 5	(VO-W)	
37	Solenoid switch, hood (pre-routed wiring anti-theft alarm)	(GR-OR)	Solenoid switch, hood (pre-routed wiring for anti-theft alarm)	(GR-OR)	
38	Control module Motronic (MFI) pos. 14	(GN-OR)	Control module, cruise control pos. 2	(P-SB)	
39	Control module Motronic (MFI) pos. 34	(Y-BN)	Hydraulic unit ABS pos. 11 Control module ABS pos. 29	(GN) (Y-BN)	
40	Splice fused + supply	(GN-R)	Control module ABS pos. 25 Control module cruise control pos. 7	(Y-BN)	
41	Control module transmission connector B pos. 9	(GN-Y)	Control module ABS pos. 1	(BL-R)	
42	Control module transmission connector B pos. 11	(GR-R)	Control module ABS pos. 7	(GN-W) (GN-W)	
43	Control module Motronic (MFI) pos. 15	(OR)	Control module ABS pos. 9	(BN-W)	
44	Control module Motronic (MFI) pos. 23	(P-W)			
45	Control module cruise control pos. 11	(BL-OR)	Control module cruise control pos. 11	(BL-OR)	
46	Control module cruise control pos. 6	(BL-GR)	Control module cruise control pos. 6	(BL-GR)	
47	Control module cruise control pos. 4	(OR-W)	Control module cruise control pos. 4	(OR-W)	
48	Control module cruise control pos. 3	(OR-SB)	Control module cruise control pos. 3	(OR-SB)	
49	Control module cruise control pos. 13	(BL-Y)	Control module cruise control pos. 13	(BL-Y)	
50	Control module Motronic (MFI) pos. 9	(GN-OR)	Control module Motronic (MFI) pos. 9	(GN-OR)	
51	Control module cruise control pos. 10	(SB)	Control module ABS pos. 10	(SB)	
52	Control module transmission connector B pos. 8	(GN-SB)	Ground connector left A-post	(Y-SB)	
53	Control module transmission connector B pos. 2	(GN-W)			
54	Control module Motronic (MFI) pos. 18	(Y-R)			
55	Control module transmission connector A pos. 30	(Y-R)			

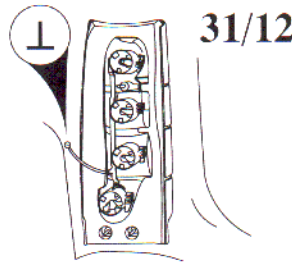
Ground connections



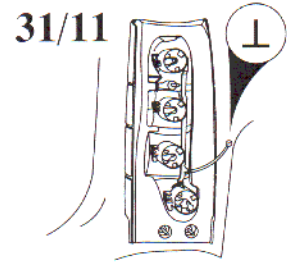
Ground connection,
battery-body



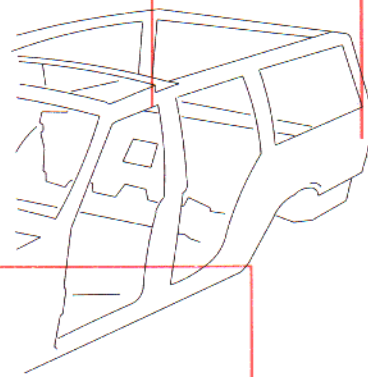
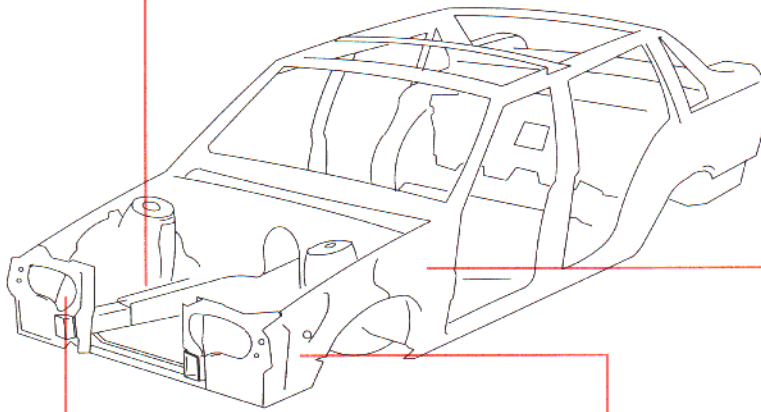
Ground connection,
battery-engine



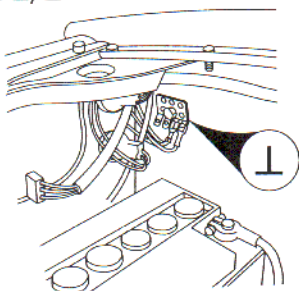
Right tail light unit
(5-door)



Left tail light unit
(5-door)
Number plate lights
Bulb malfunction indicator,
rear
Tailgate wiper
Trunk light
Heated rear window
High level brake light
Power antenna

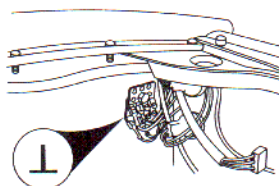


31/1



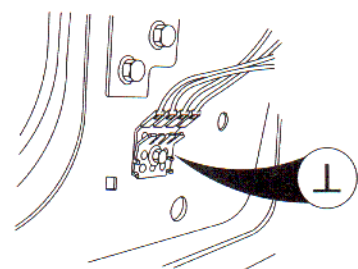
Right headlight
Right turn signal indicator
Right parking light
Washer motor
Washerfluid level sensor
Right foglight (auxiliary light)
Heated oxygen sensor (HO2S)
Relay, radio interference suppression
Engine cooling fan
Idle air control
Right headlight wiper motor
Hydraulic unit ABS (B6304F/G)
Auxiliary lights
Pressure sensor relays, engine
cooling fan (not B204FT)
Engine coolant level (EC) sensor
(B204FT and B6304F/G)
Vehicle speed (VSS) sensor (D24TIC)

31/2



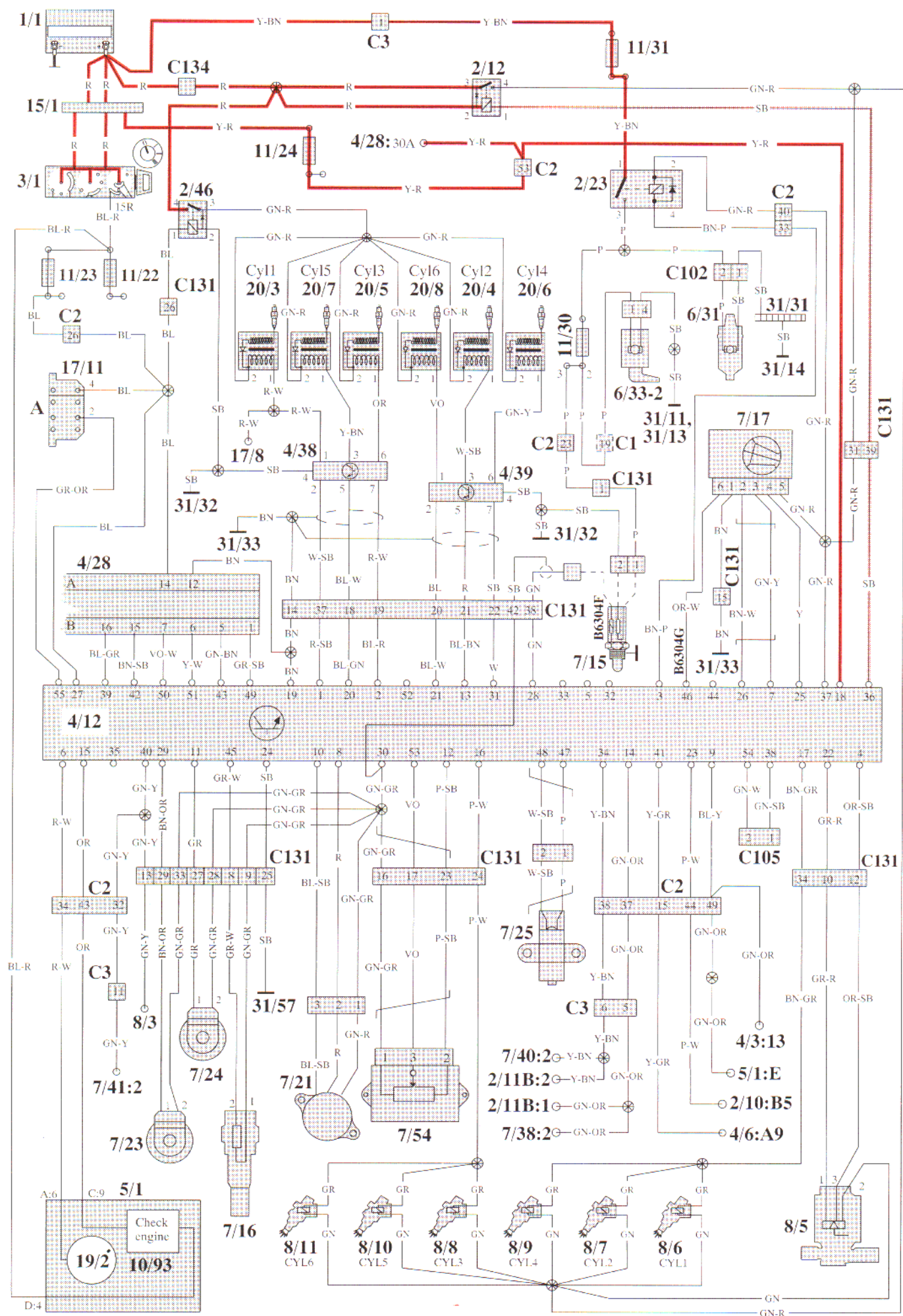
Left headlight
Left turn signal indicator
Left parking light
Left headlight wiper motor
Auxiliary light
Relay radio interference suppression
Washer motor
Washer level sensor
Left foglight (auxiliary light)
Engine cooling fan
Cruise control
Relay, glow plug system
Hydraulic unit, ABS
Brake fluid level sensor
Test socket A (diagnosis OBD)

31/6

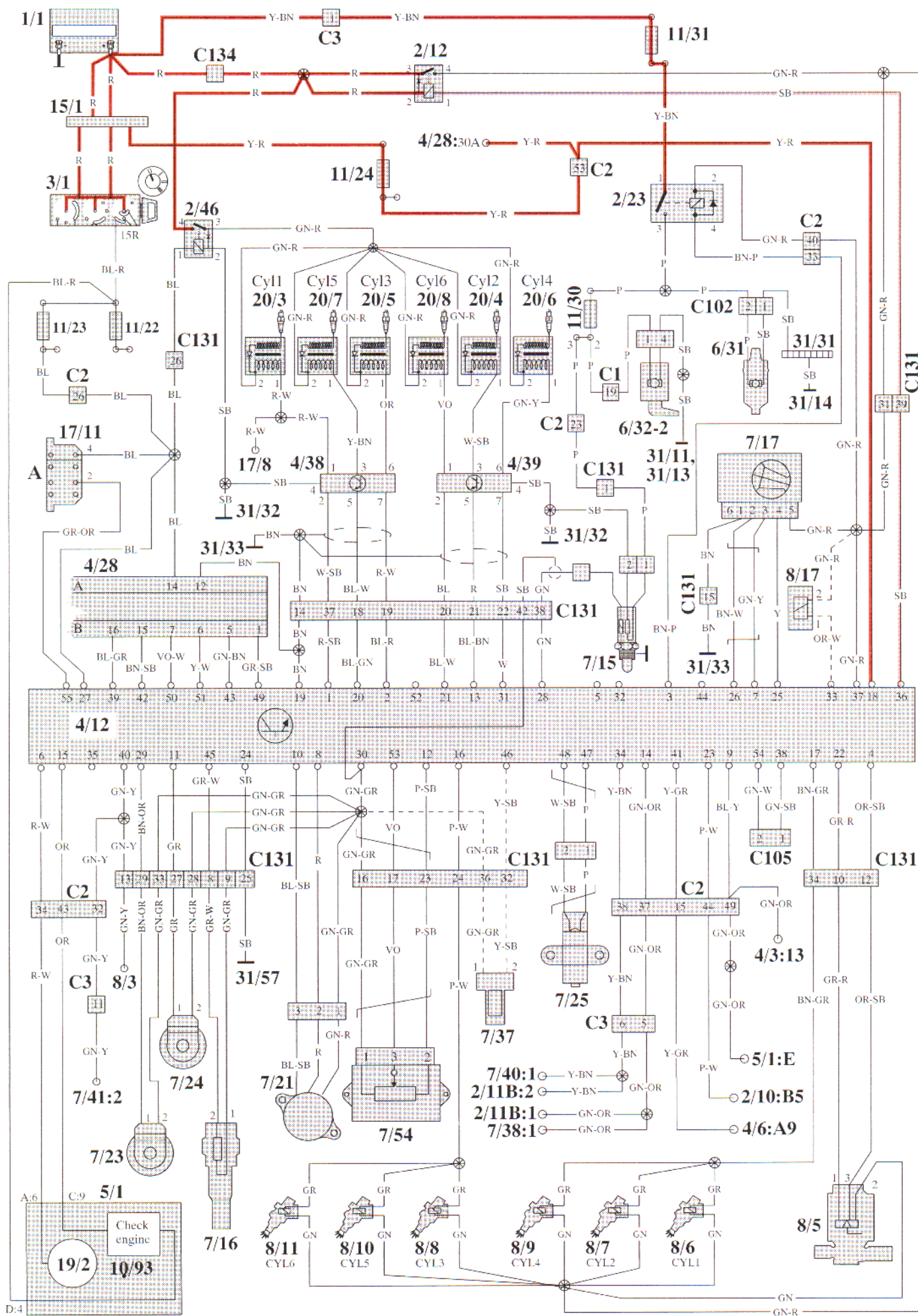


Left side turn signal repeater
Power windows
Central locking
Power mirrors
Instruments
ABS
Heated door mirror, left side
Transmission control module
Kickdown switch AW30-43
Vanity mirror light, left side
Cruise control

Motronic multiport fuel injection system (MFI) (B6304F/G)

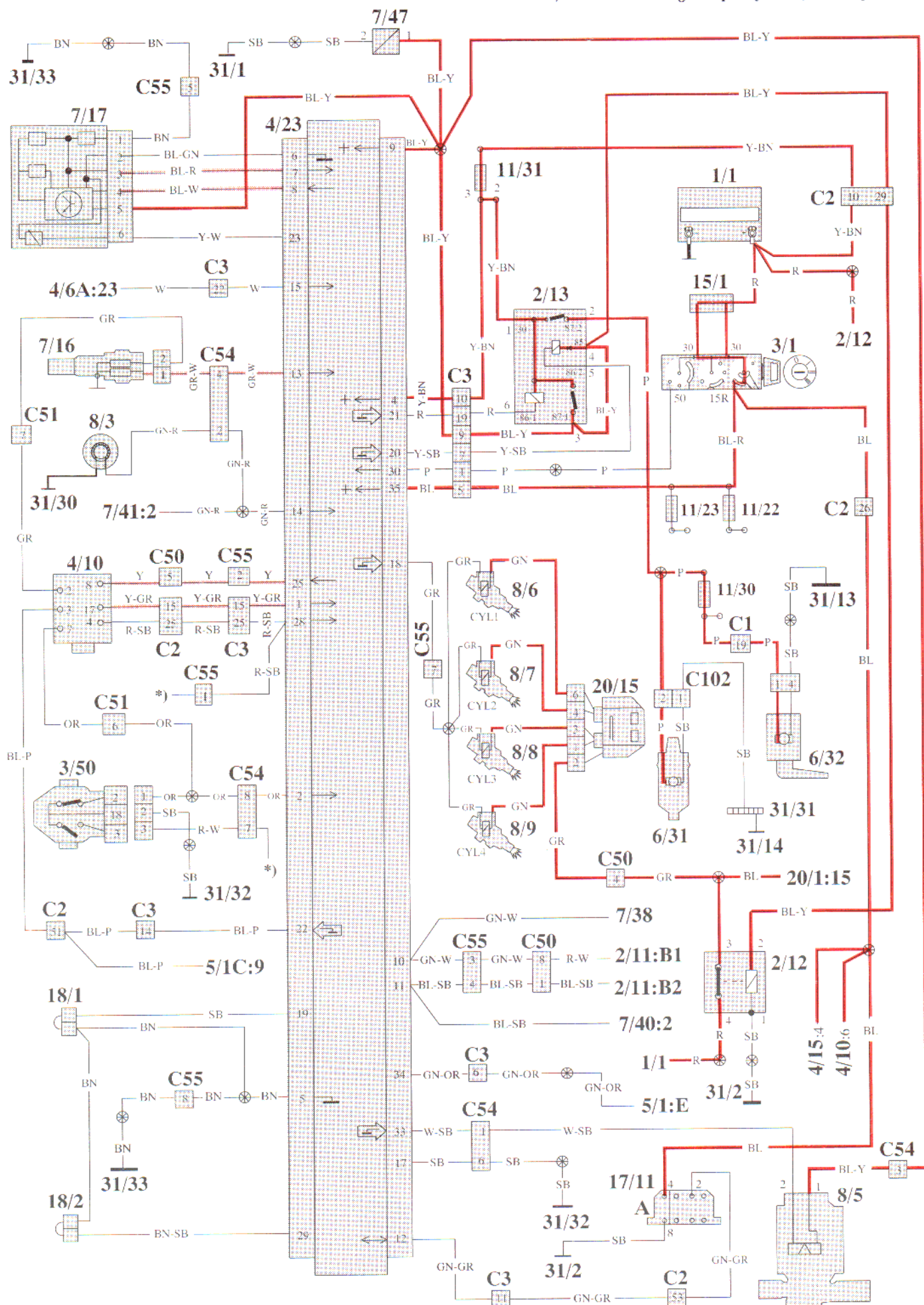


Motronic multiport fuel injection system (MFI) (B6304F) USA/Canada

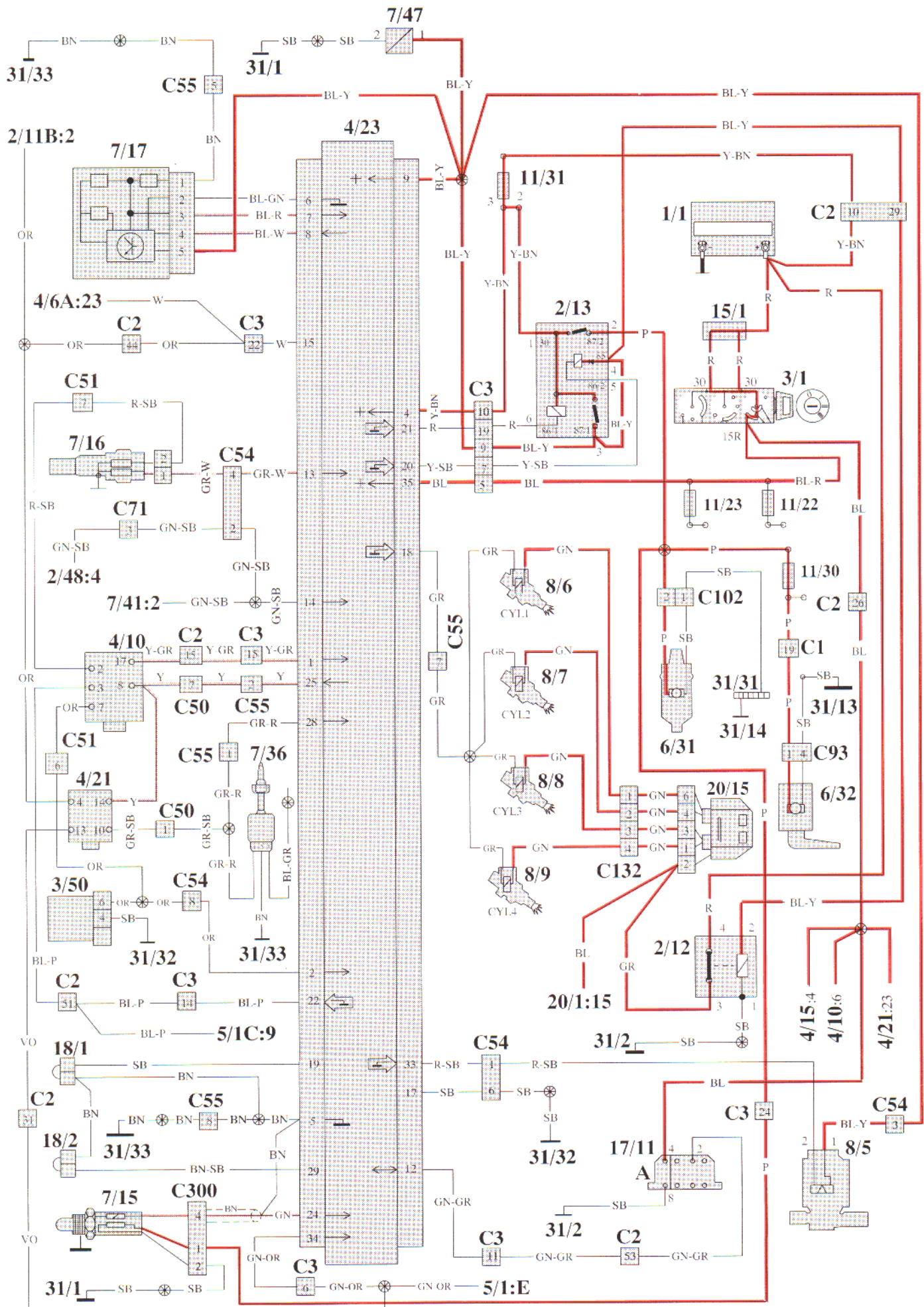


LH-jetronic multiport fuel injection system (MFI) 2.4 (B230GT)

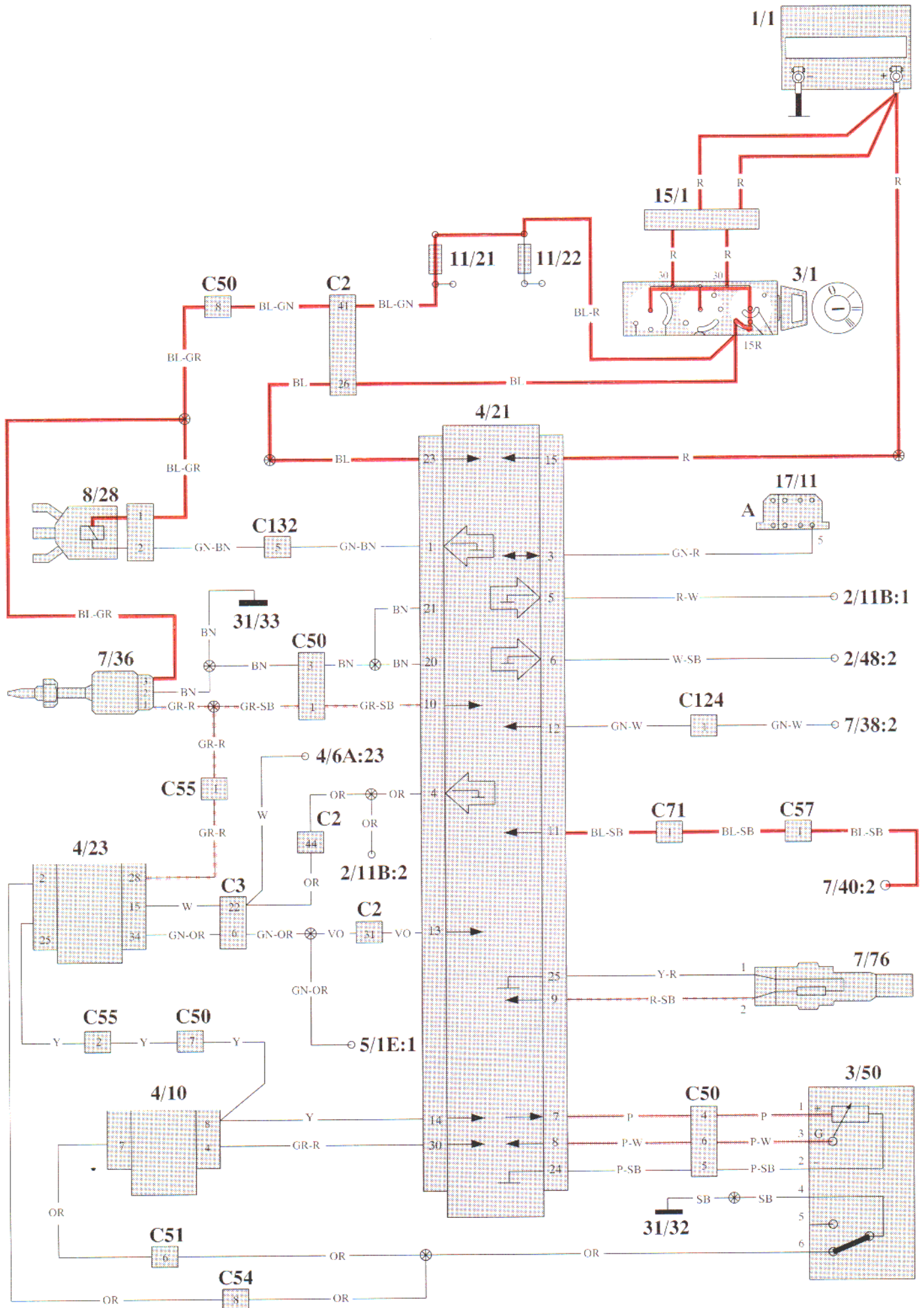
*) Connection to high output system (accessory)



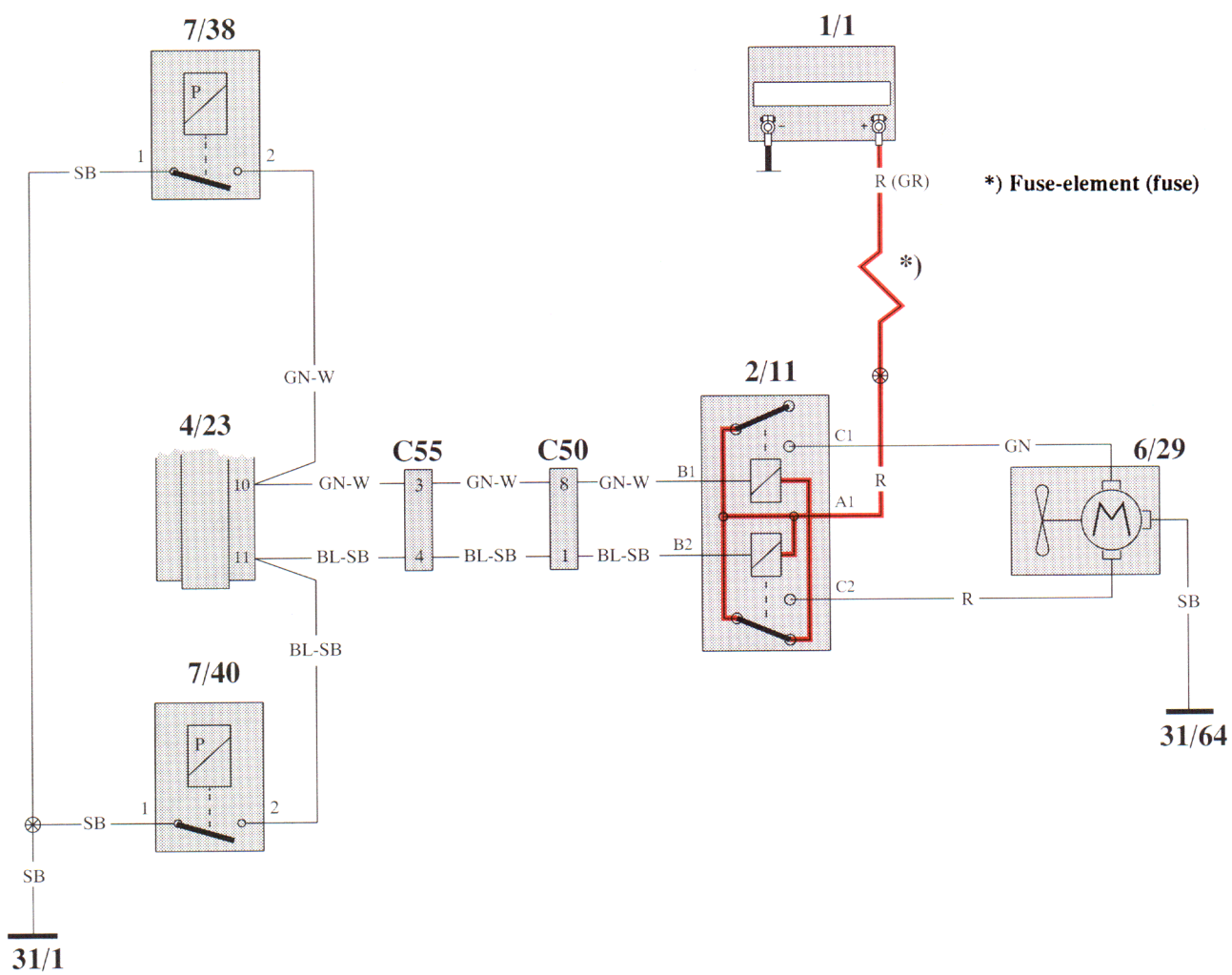
LH-jetronic multiport fuel injection system (MFI) 2.4 (B204FT)



Turbo control system, TCU (B204FT)

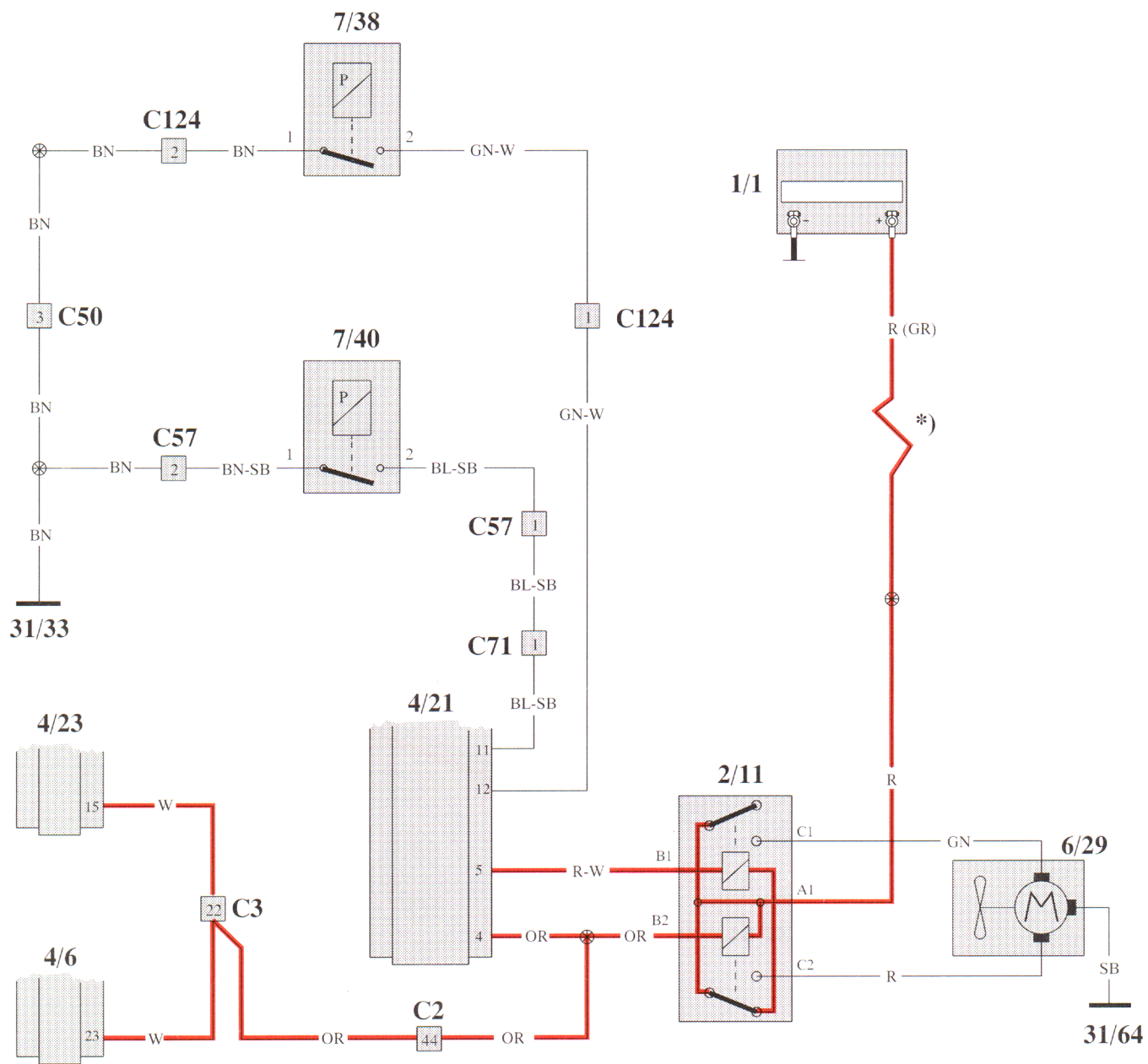


Engine cooling fan (B230GT)



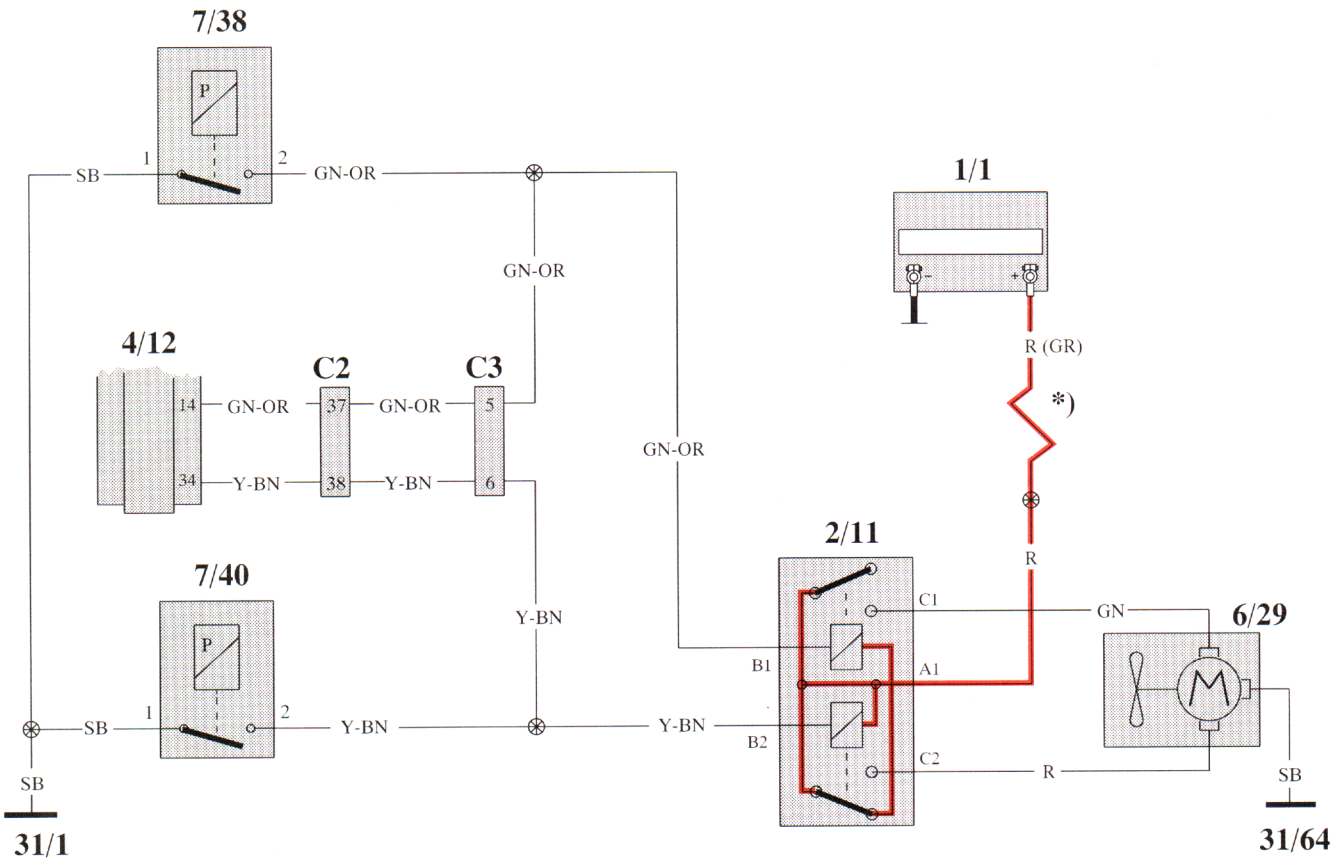
Engine cooling fan (B204FT)

*) Fuse-element (fuse)



Engine cooling fan (B6304F/G)

*) Fuse-element (fuse)

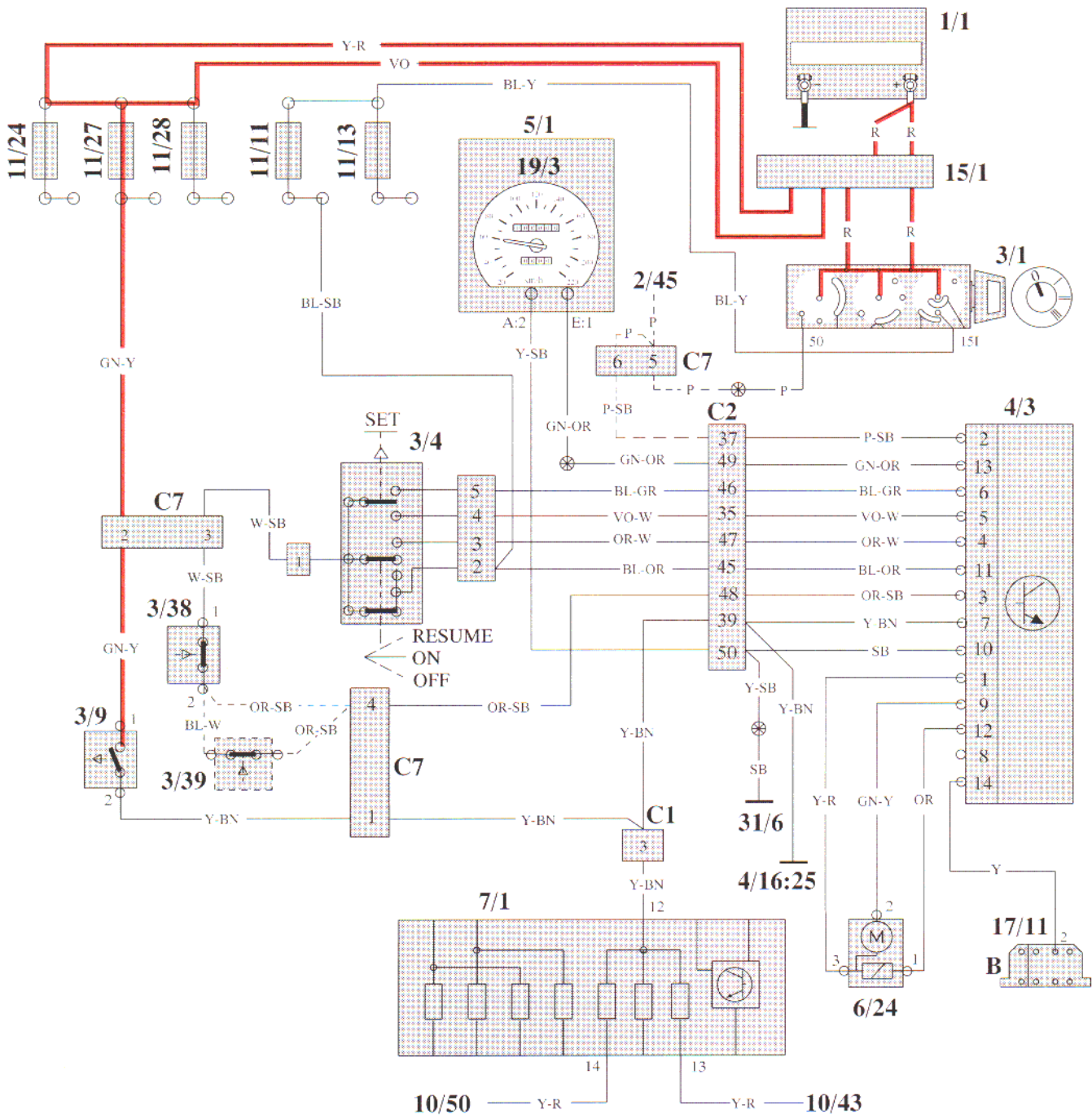


Cruise control (B230GT, B204FT and D24TIC)

Live connections in different settings of switch 3/4 with ignition switch in position II

3/4	OFF	ON	ON Set speed	RESUME
1		X	X	X
2	X	X	X	X
3			X	X
4			X	

Function diagram see page 42

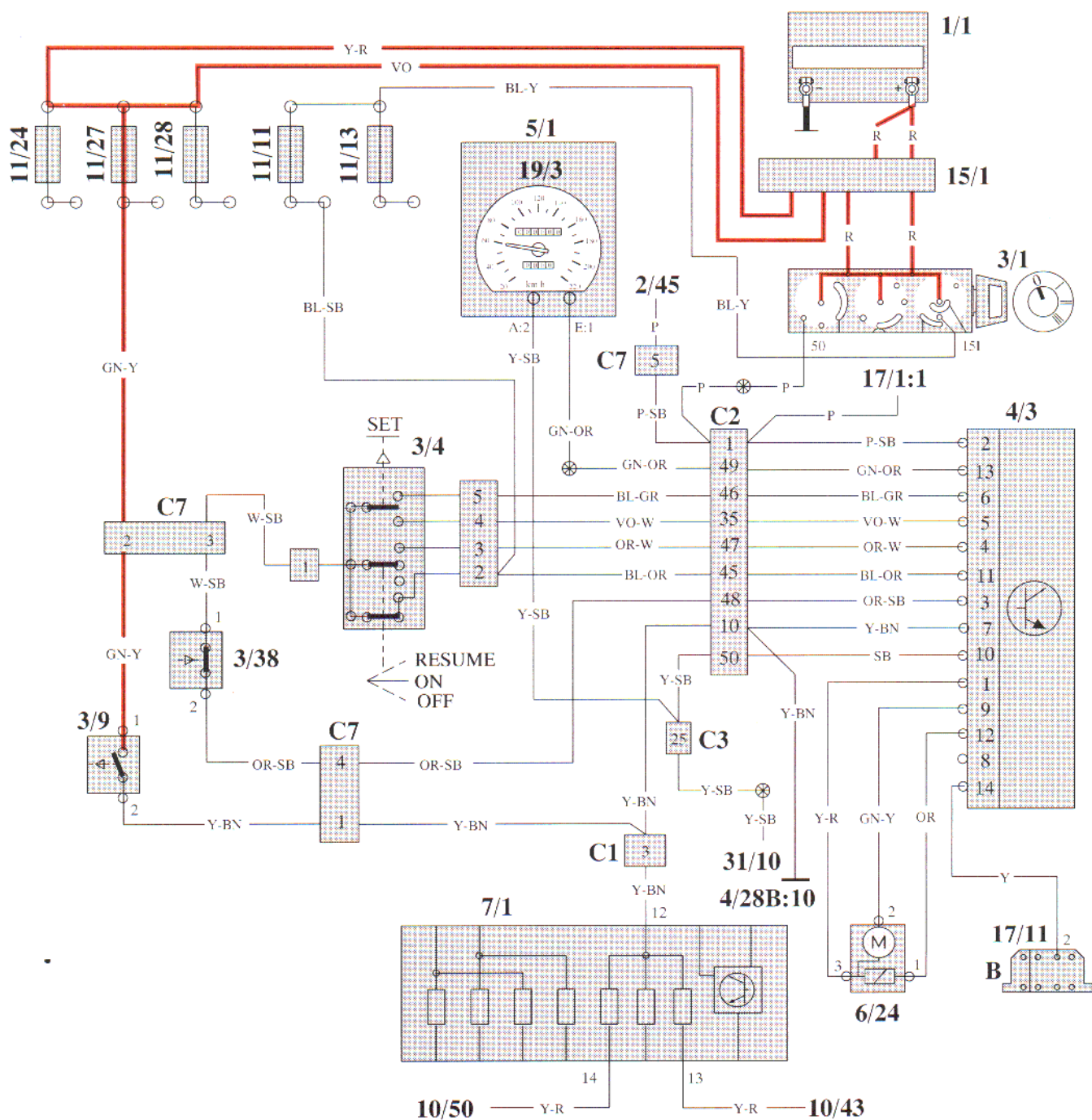


Cruise control (B6304F/G)

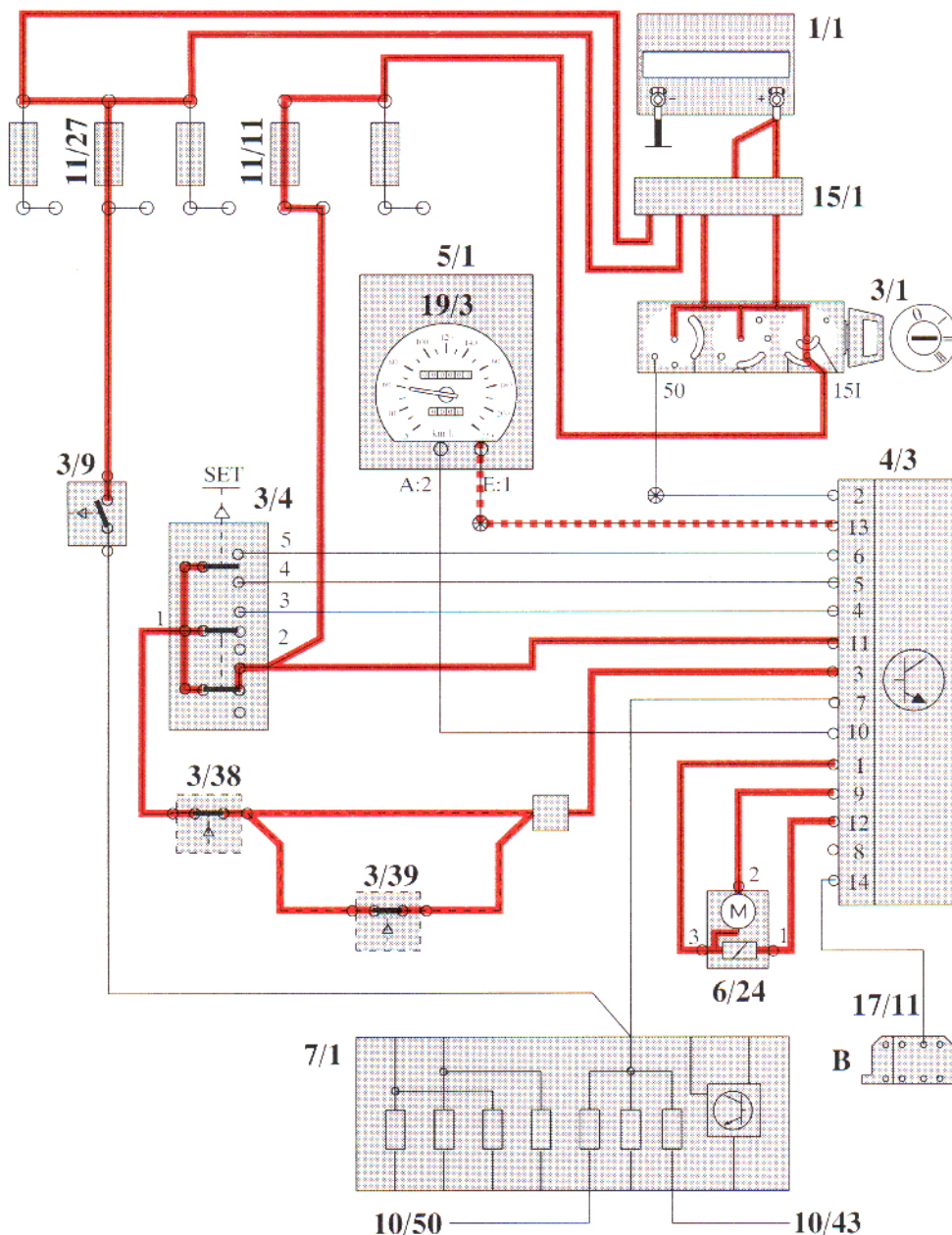
Live connections in different settings of switch 3/4 with ignition switch in position II

3/4	OFF	ON	ON Set speed	RESUME
1		X	X	X
2	X	X	X	X
3			X	X
4			X	

Function diagram
see page 42



Cruise control, function (schematic presentation)

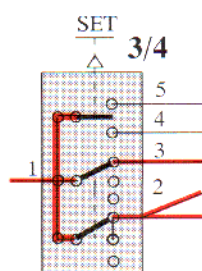


Setting speed

Switch set to ON. SET-button pressed and released.
Speed above 35 km/h (20 mph) and brake and/or
clutch pedal not pressed.
(In addition, for automatic transmission,
gear selector lever not in N-position)

Maintaining set speed

Switch set to ON. Speed above 35 km/h (20 mph)
and brake and/or clutch pedal not pressed.
(In addition for automatic transmission,
gear selector lever not in N-position)

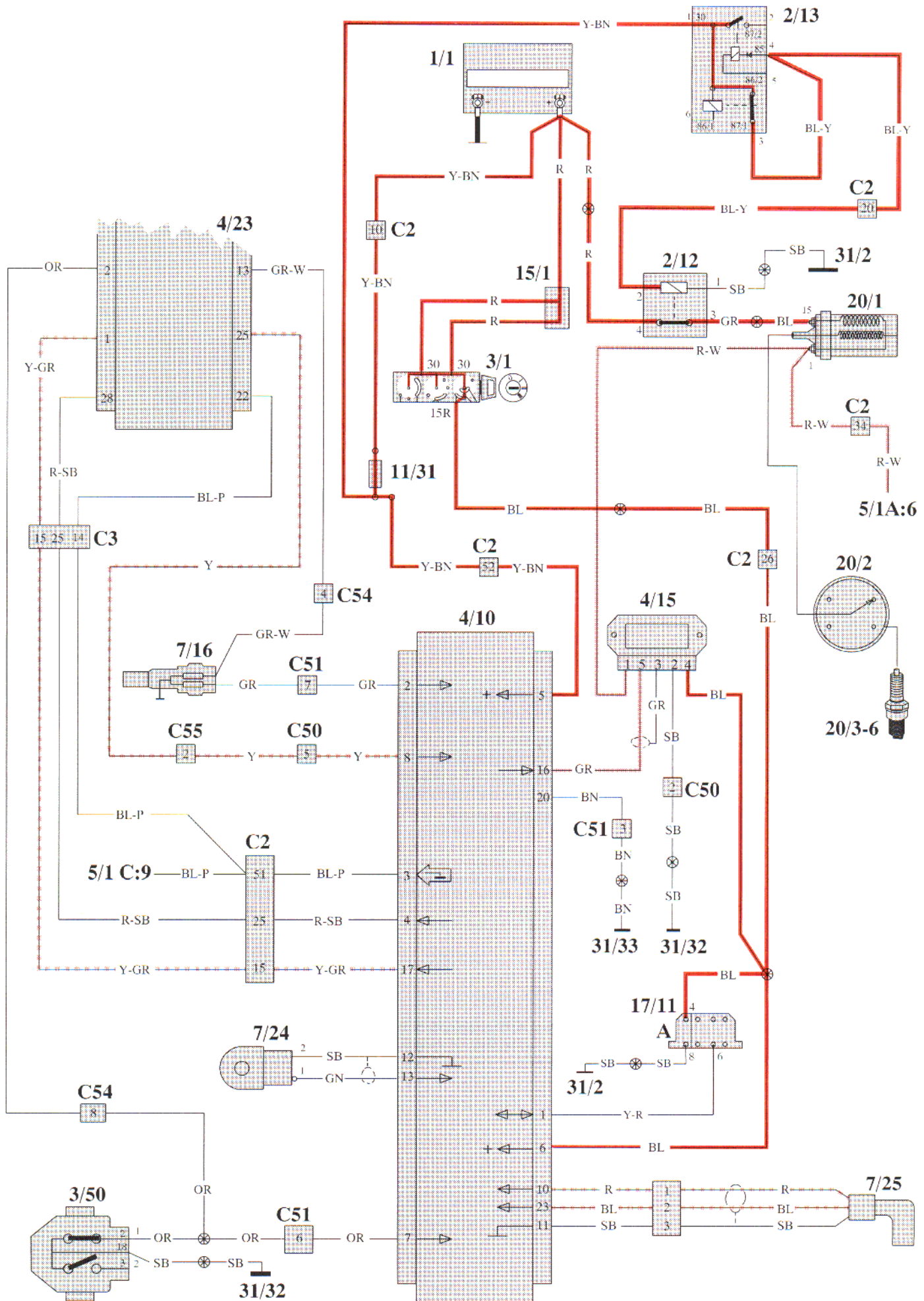


Resuming set speed

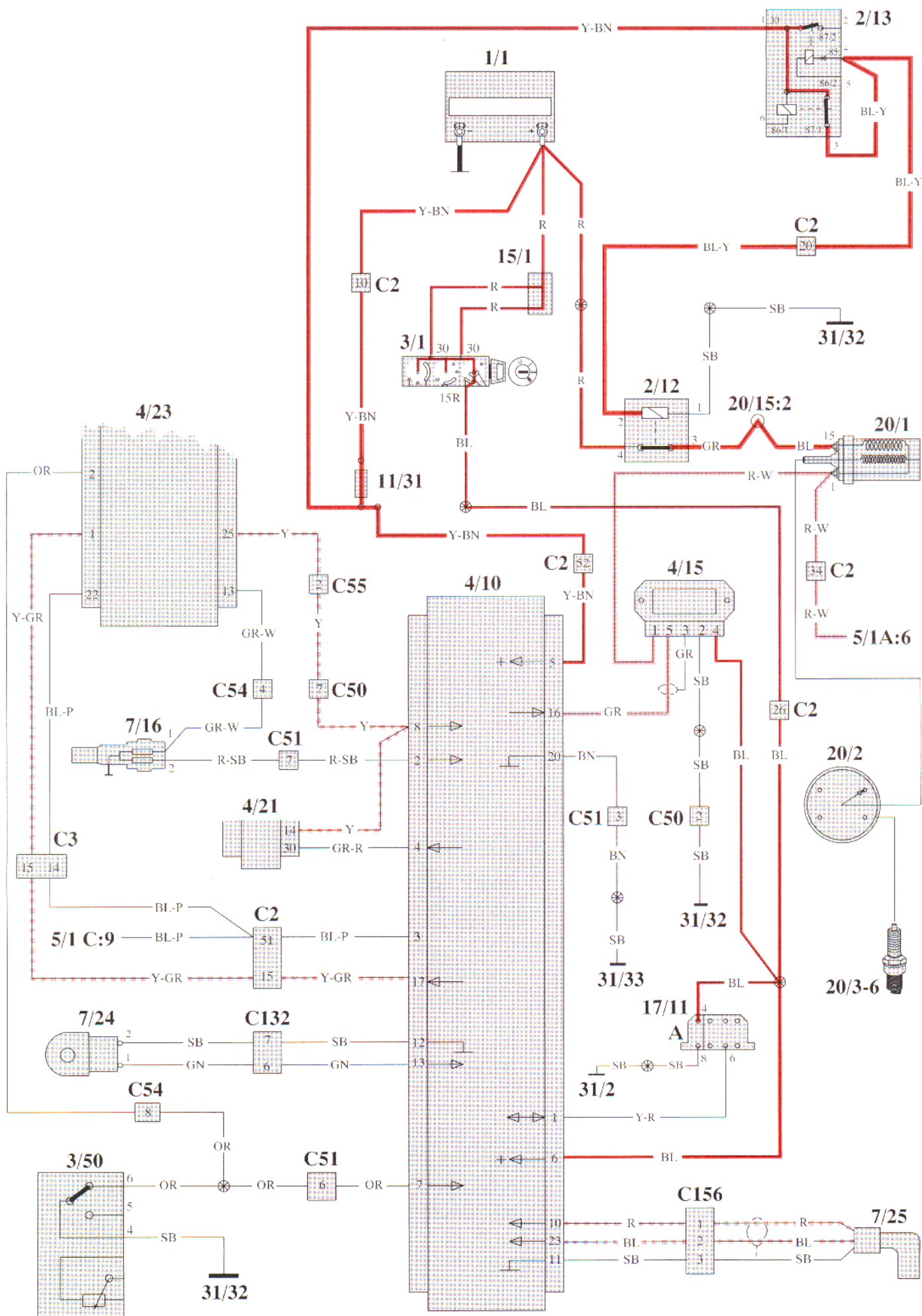
Switch set to RESUME.

The vehicle resumes the previously set speed.

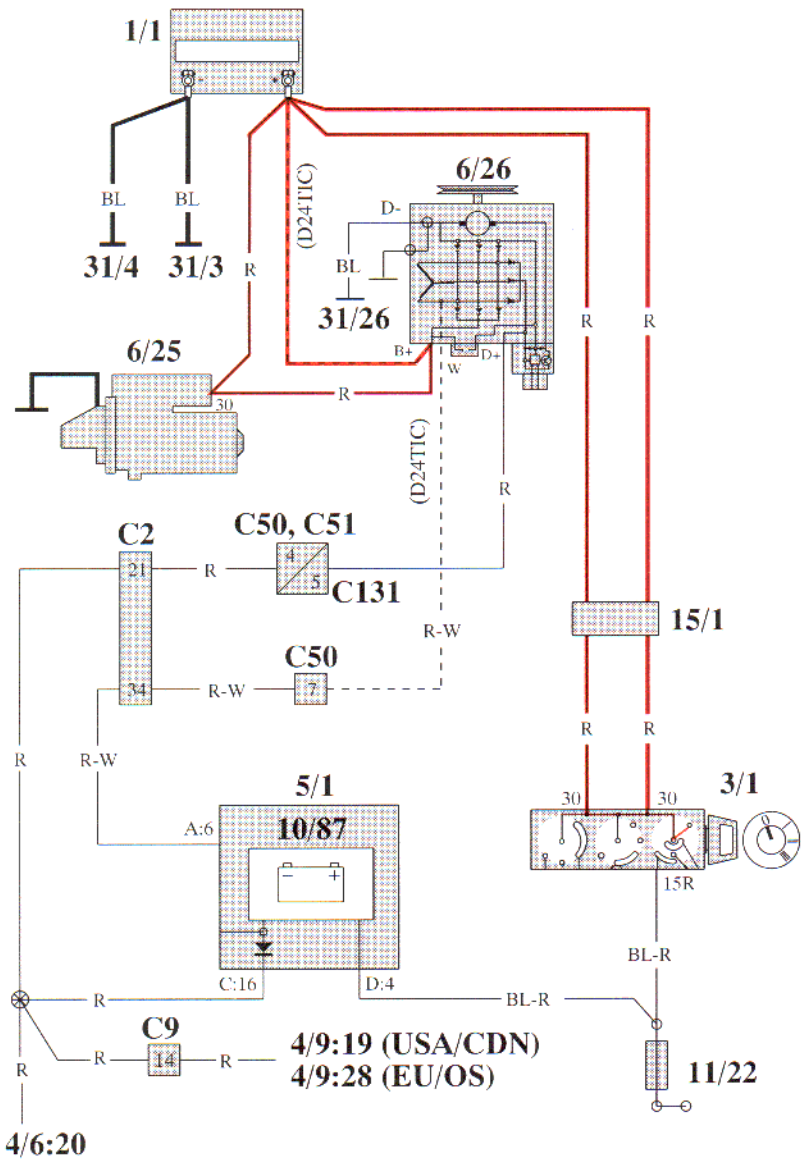
Distributor ignition (DI) system EZ116K (B230GT)



Distributor ignition (DI) system EZ116K (B204FT)



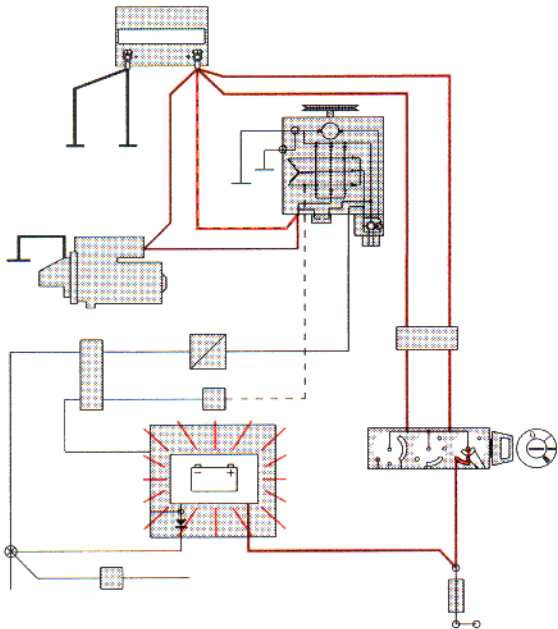
Power supply



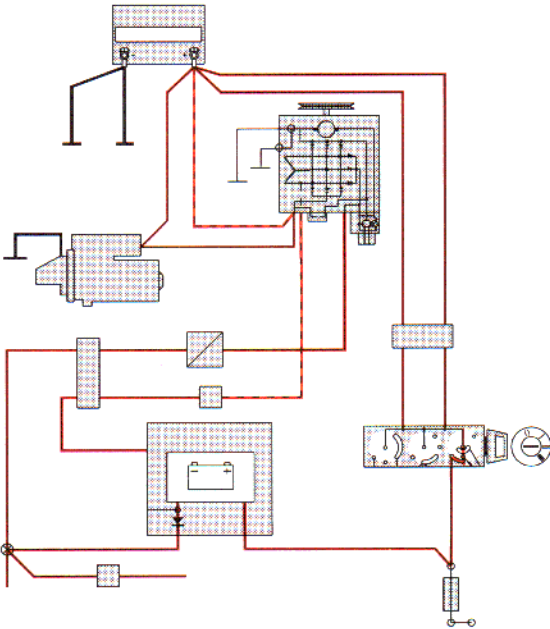
Live connections in different positions of ignition switch 3/1

Pos.	Socket					
	30	X	15	15I	50	S
K0	X					
0	X	X	X	X	X	X
I	X	X	X	X	X	X
II	X	X	X	X	X	X
III	X	X	X	X	X	X

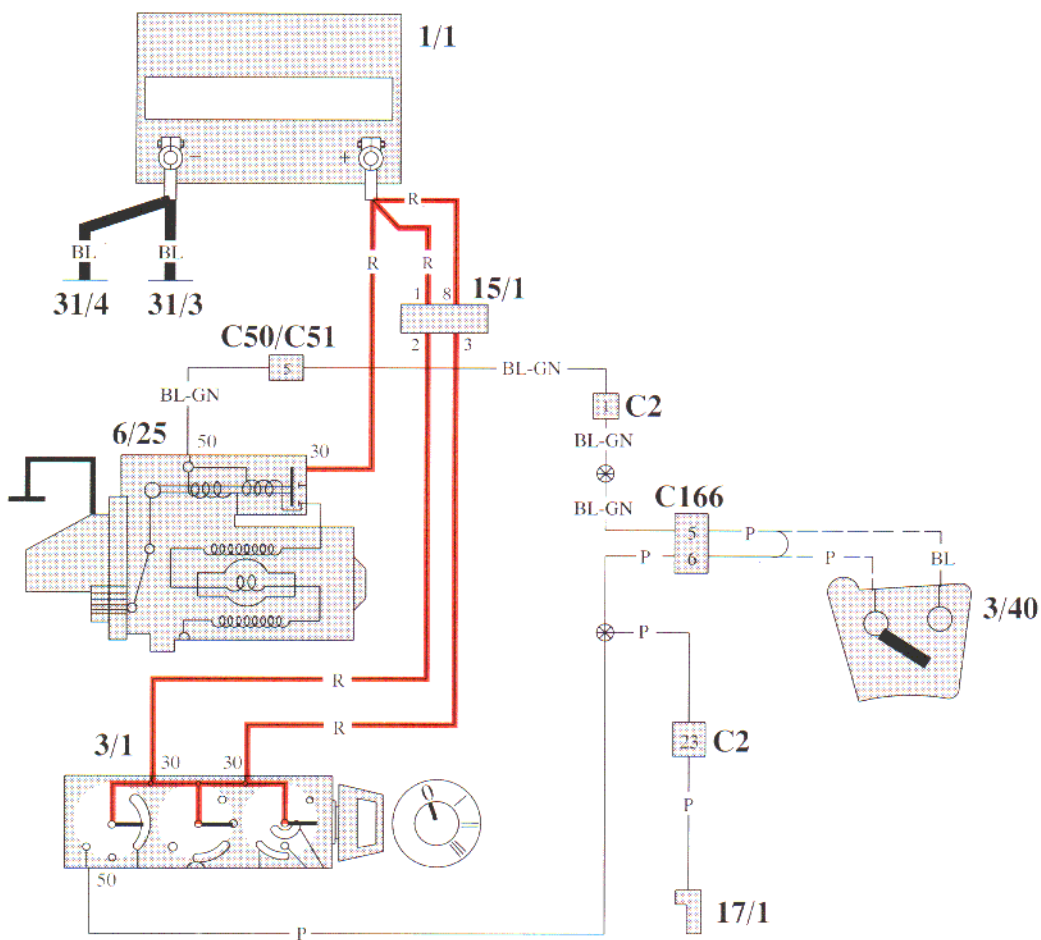
Ignition on (engine not running)



Generator charging



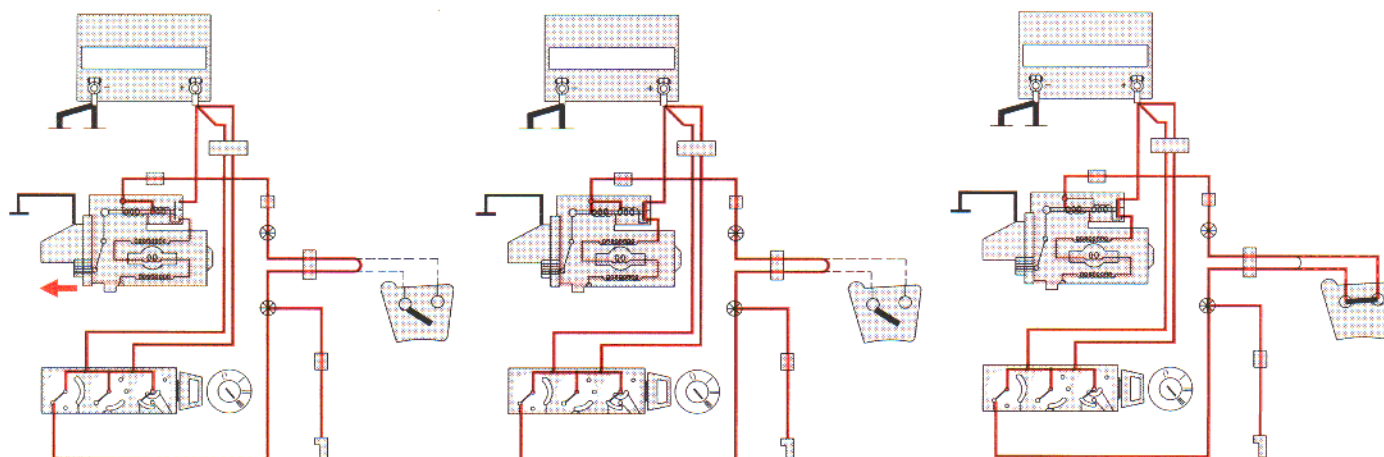
Starter system



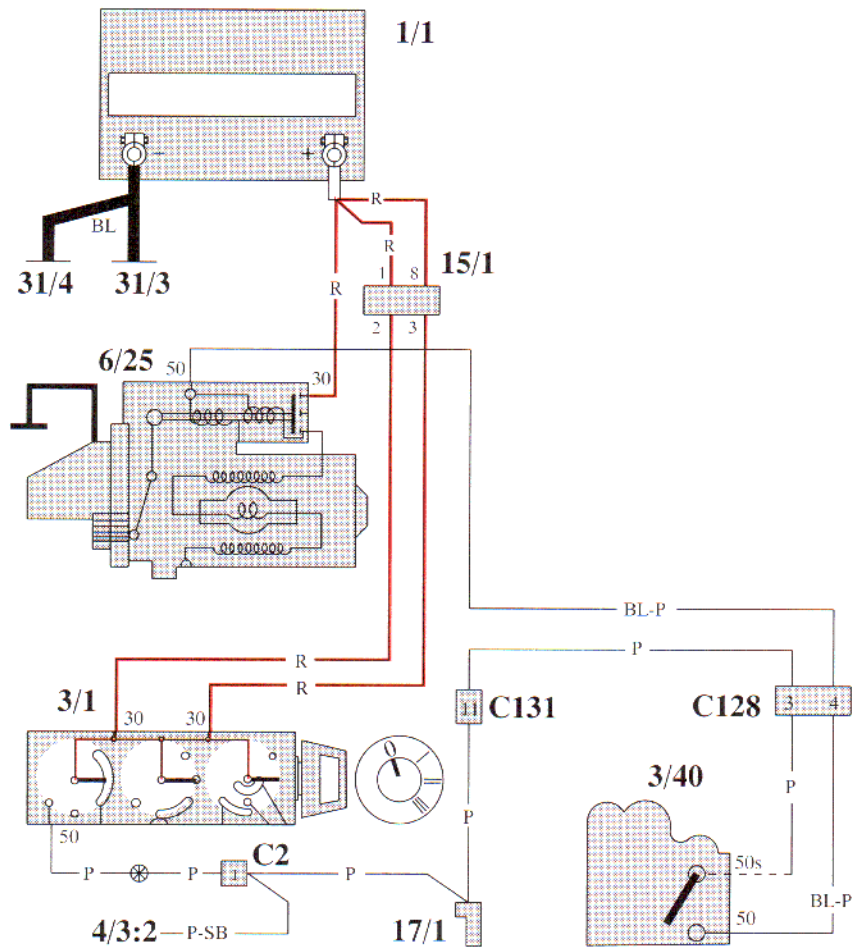
Control solenoid engages pinion in ring gear

Pinion engaged, connections closed and starter motor operates

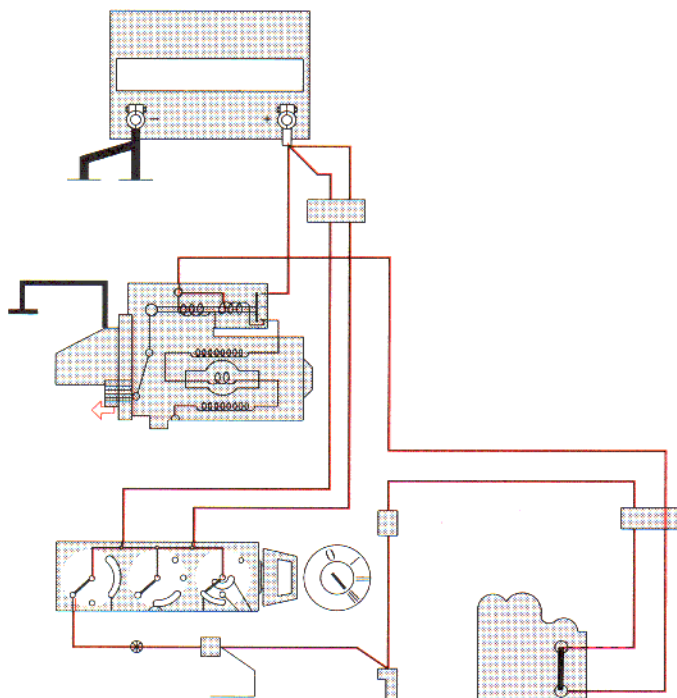
On vehicles with automatic transmission, the start inhibitor switch 3/40, must be closed for the starter motor to be energized



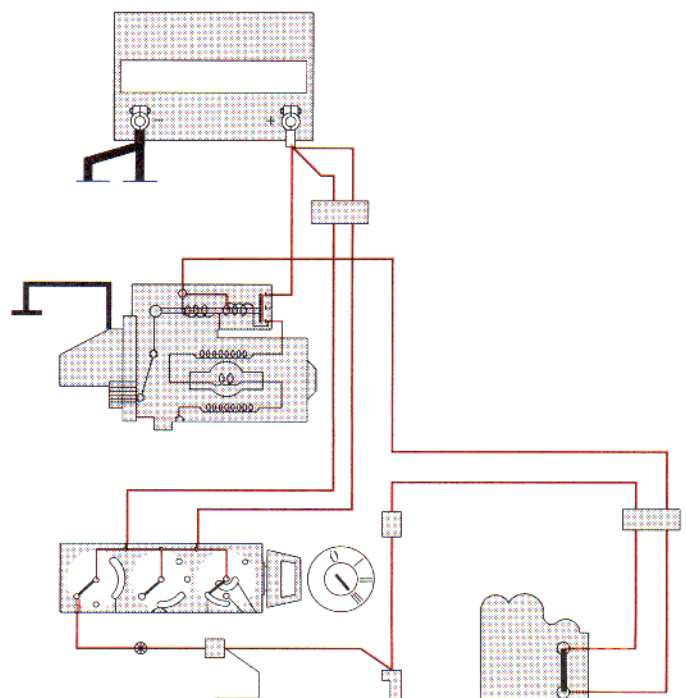
Starter system (B6304F/G)



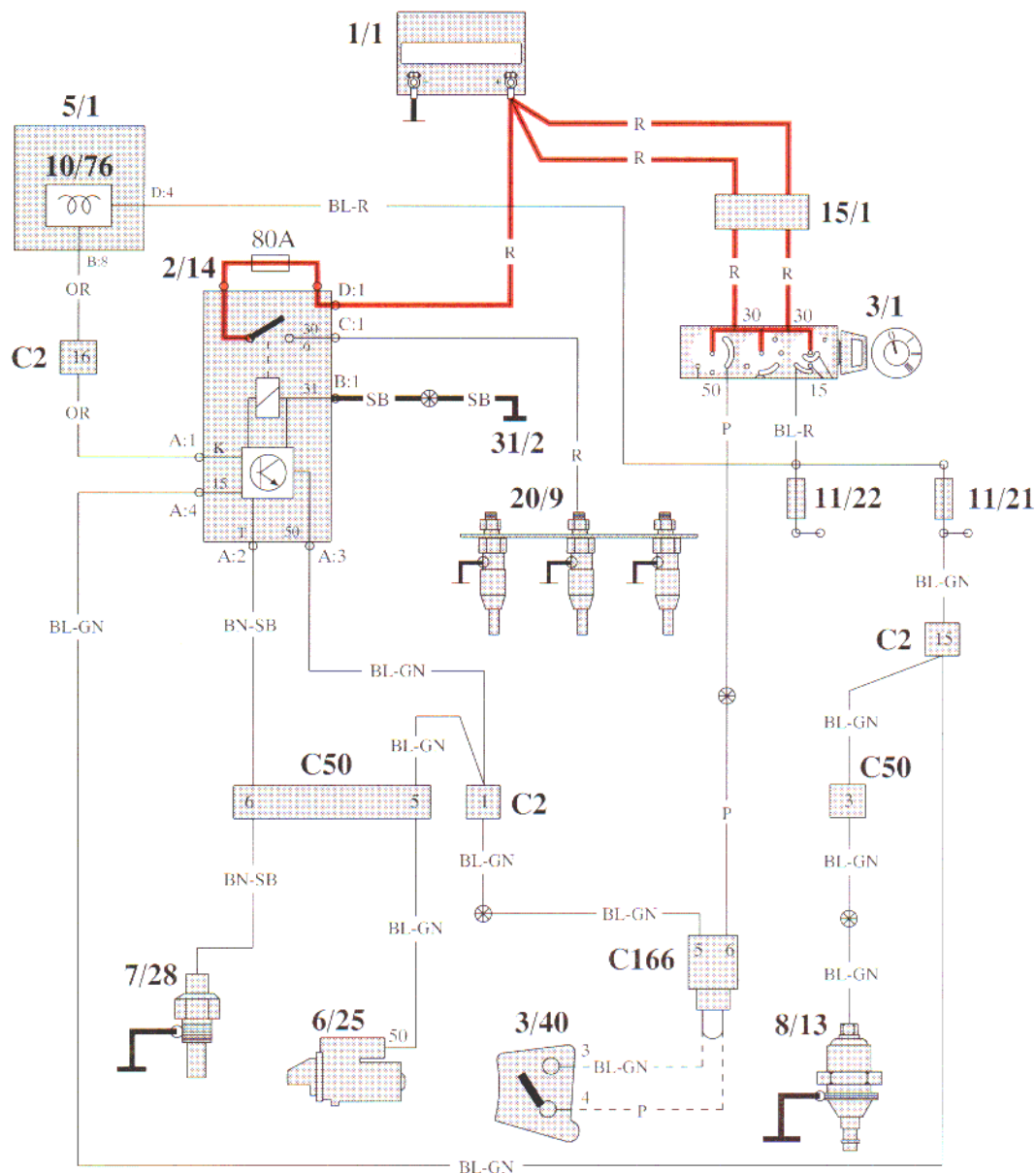
Operating solenoid pushes starter pinion into engagement with ring gear (start inhibitor switch closed)



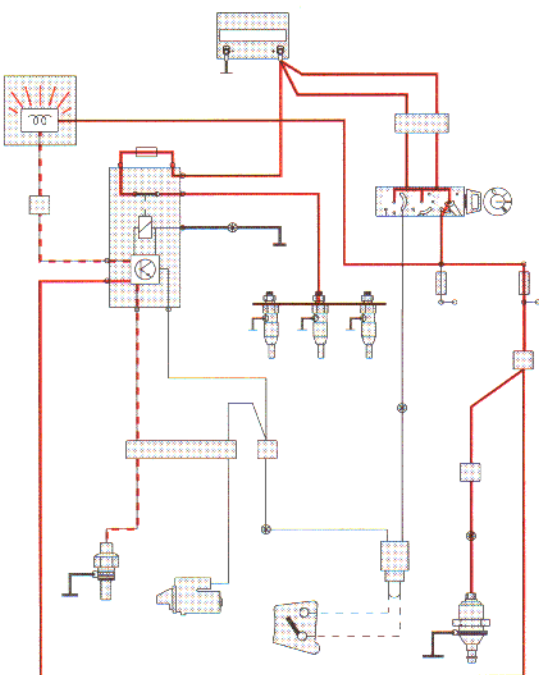
Starter pinion engaged, switches close and starter motor begins to operate (start inhibitor switch closed)



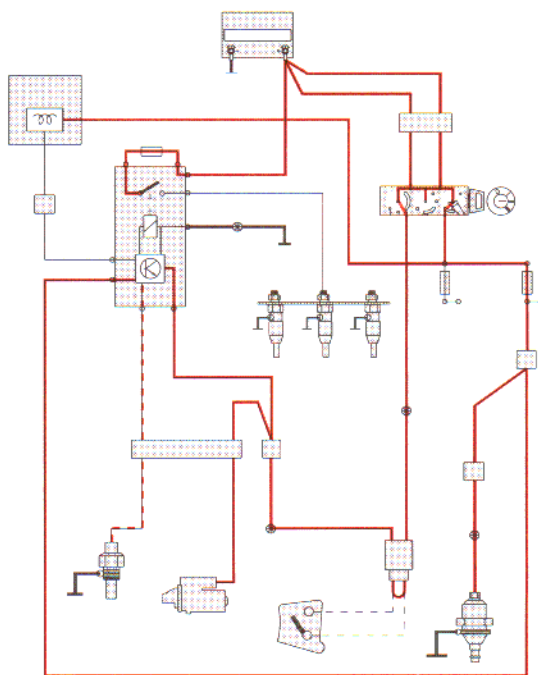
Diesel, preheating



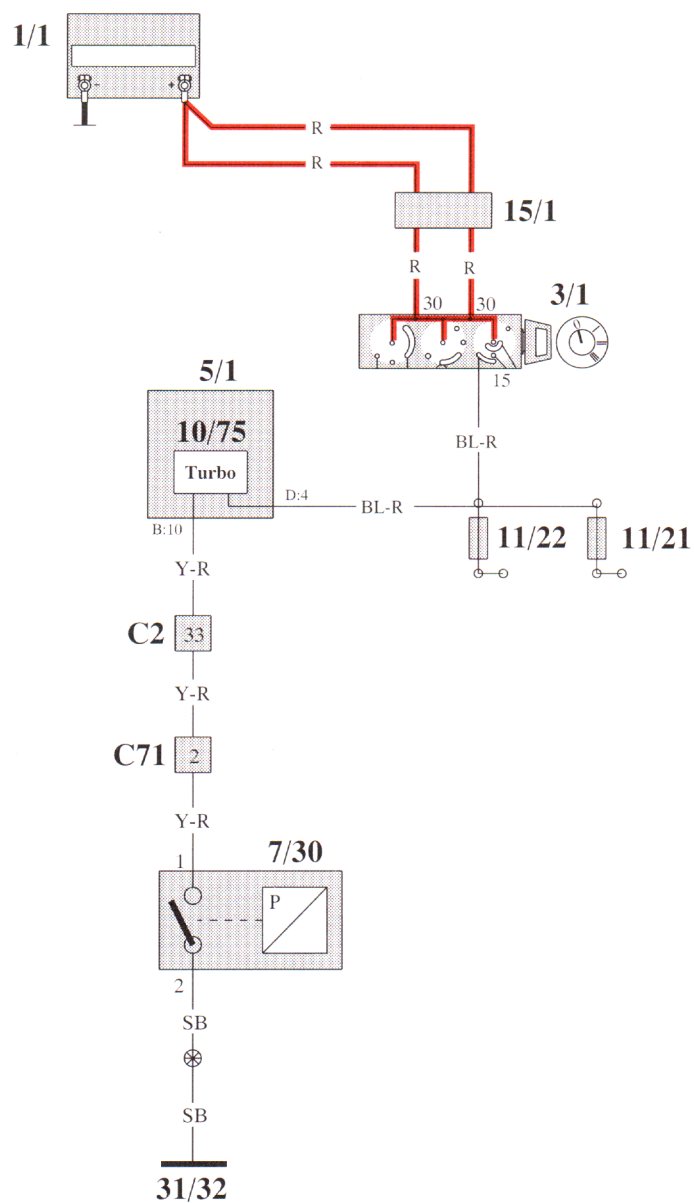
Ignition ON.
Coolant temperature below +50°C



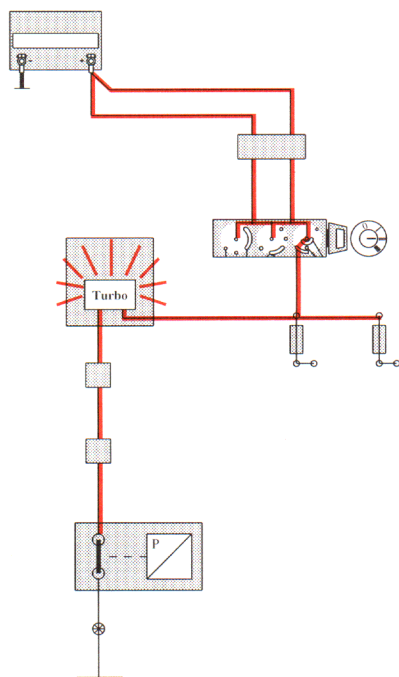
Starter motor engaged



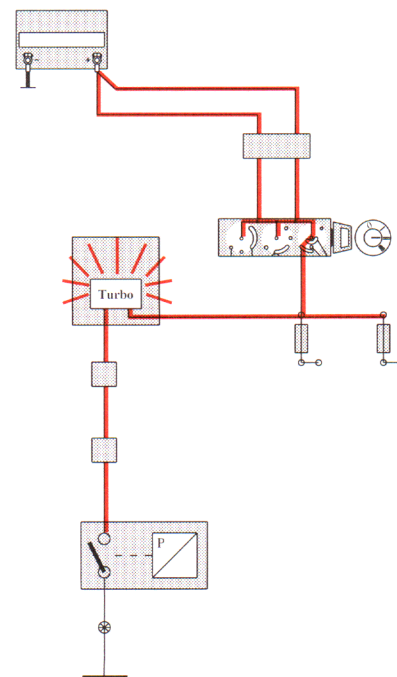
Overload sensor (D24TIC)



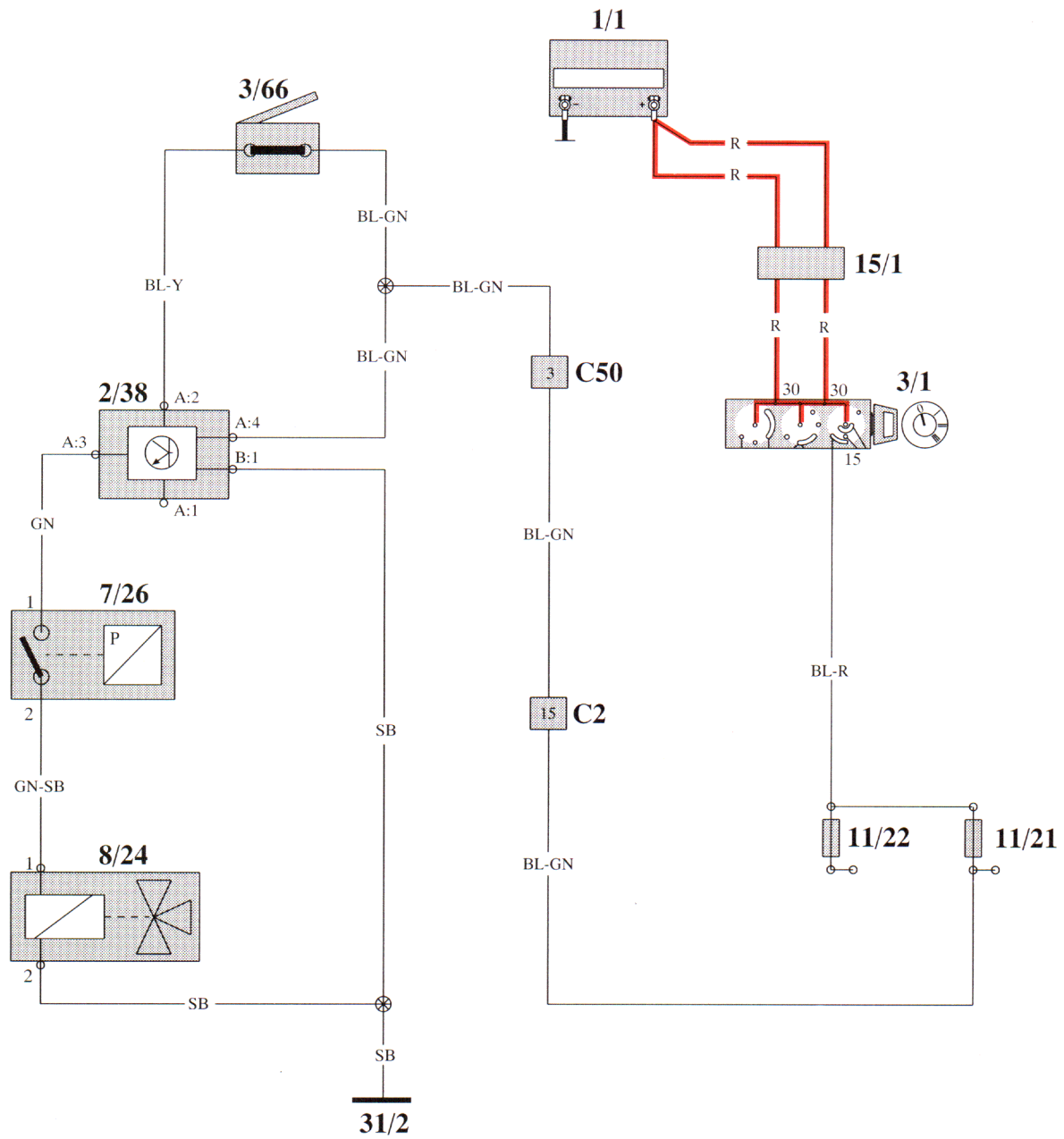
Engine running, charge pressure too high
Indicator lamp on



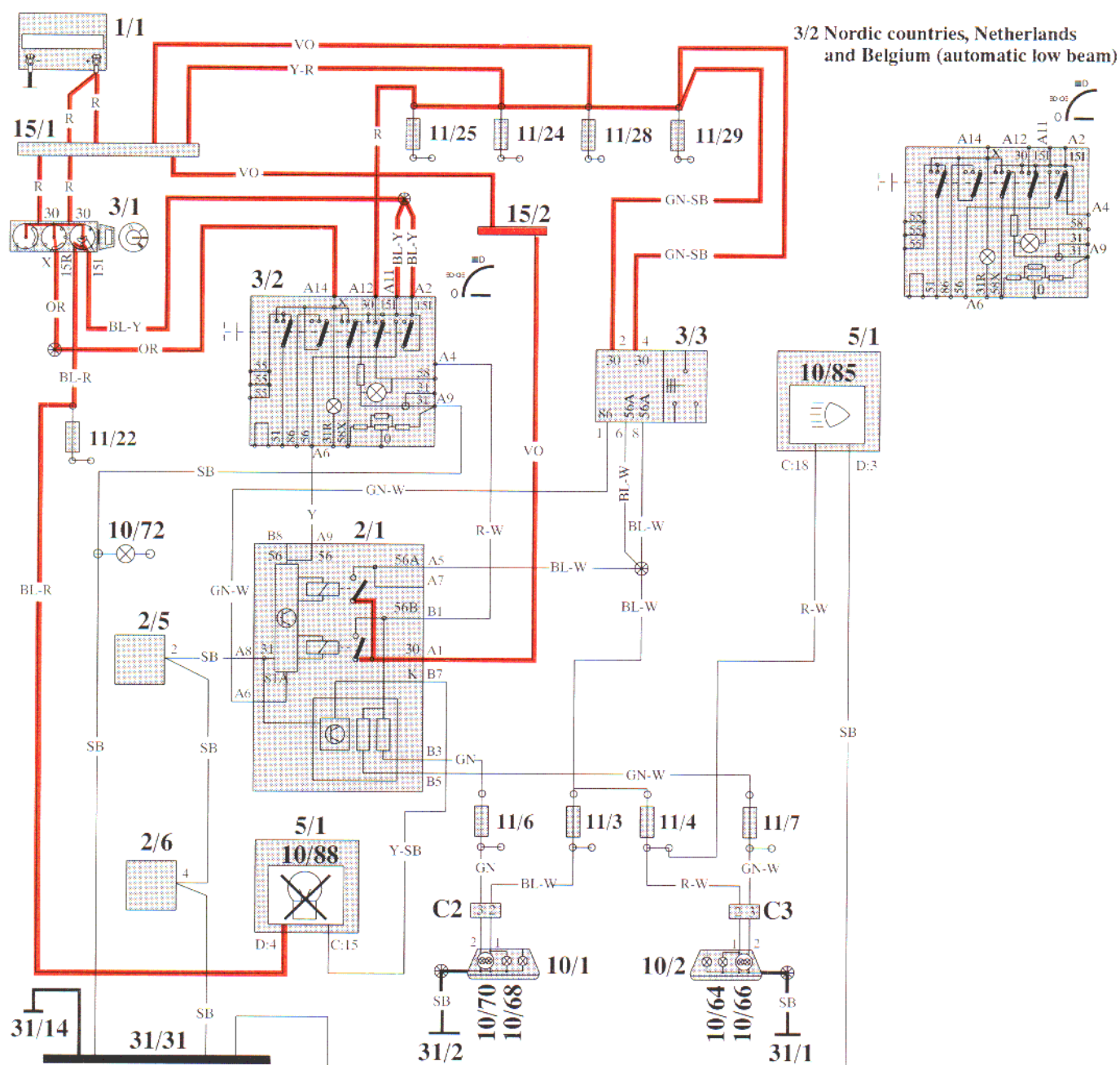
Engine running, coolant temperature too high
(Warning lamp lit via internal function in combined instrument)



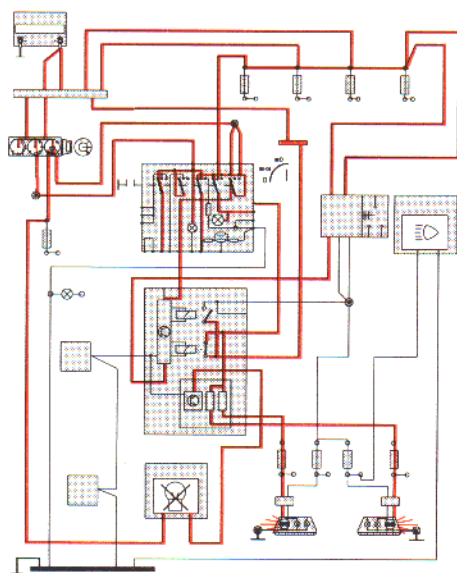
Diesel with EGR



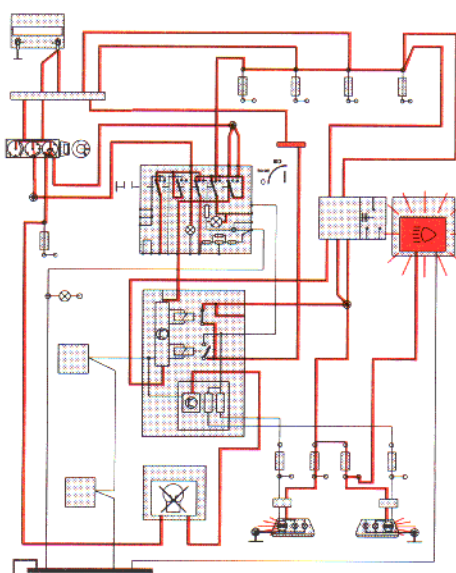
High and low beam



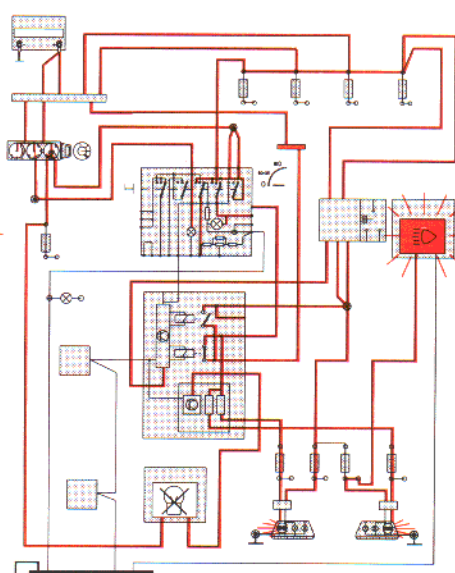
Switch for low beam



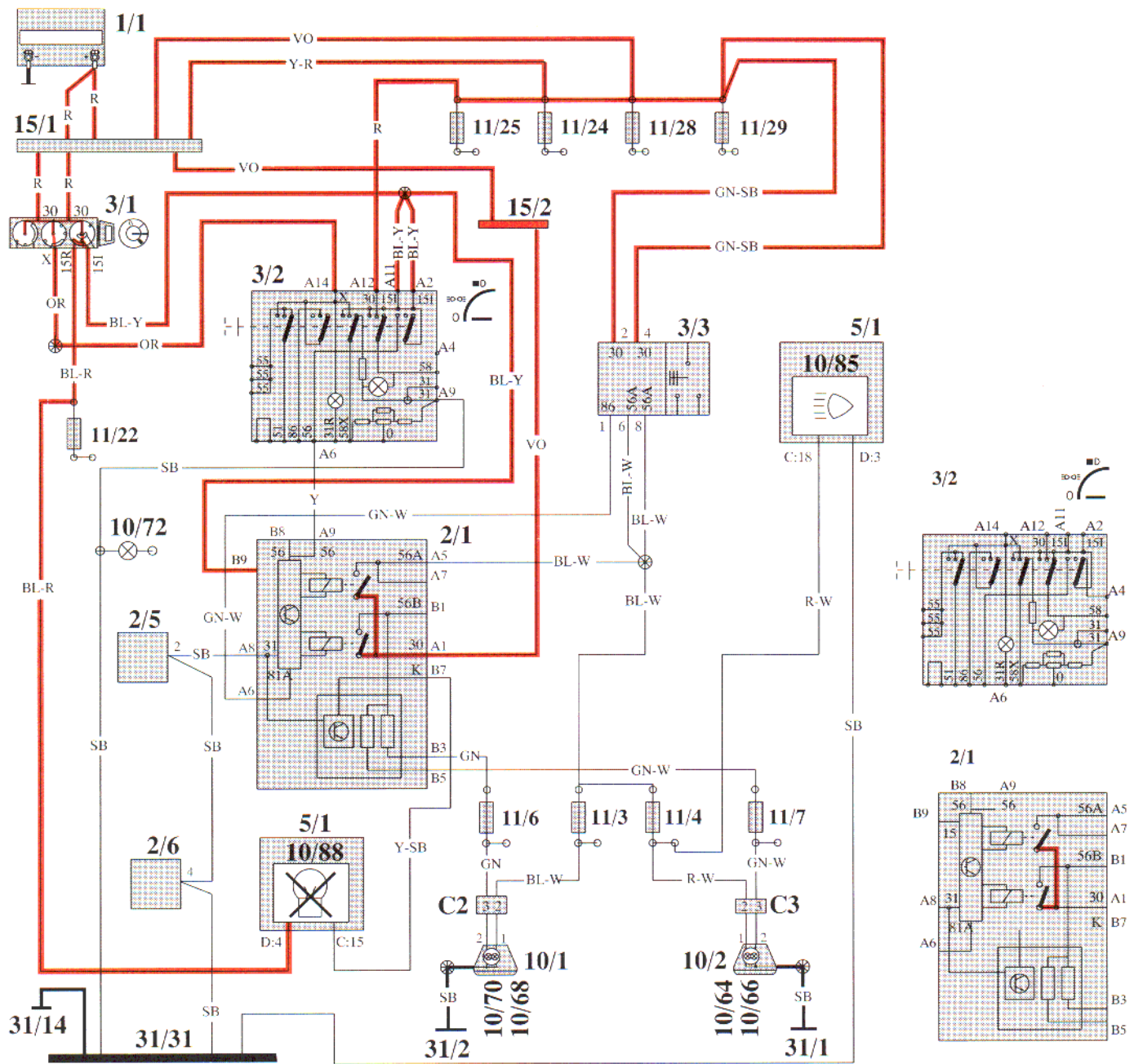
Switch for high beam



Headlight flash



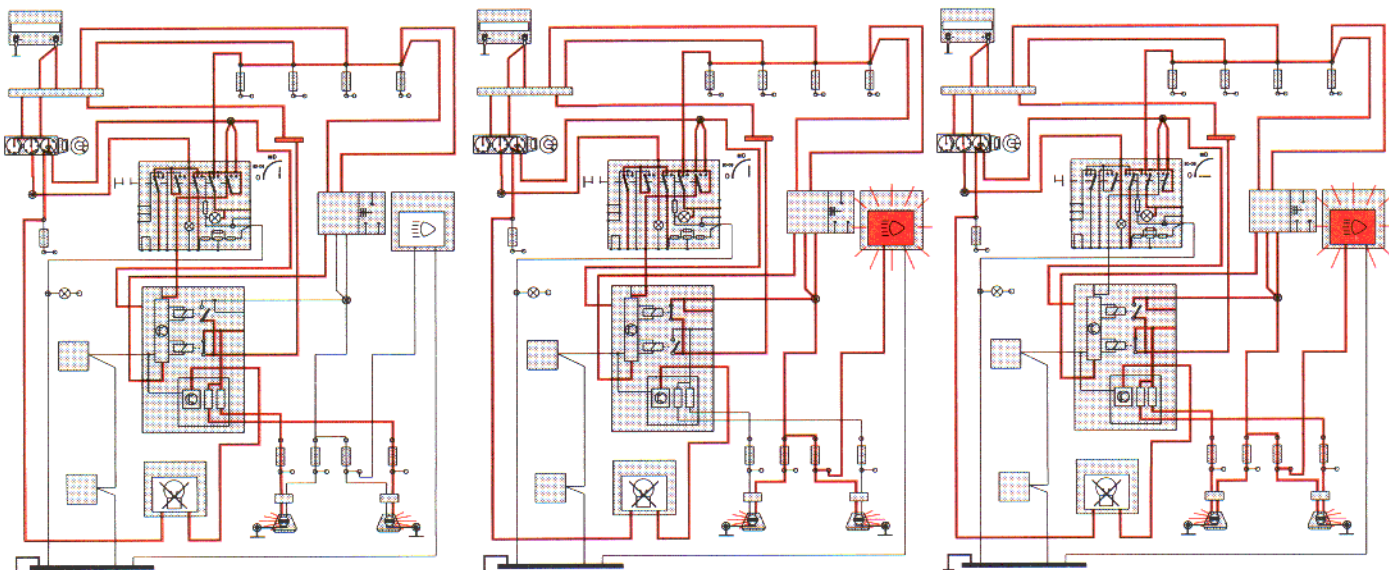
High and low beam USA/Canada



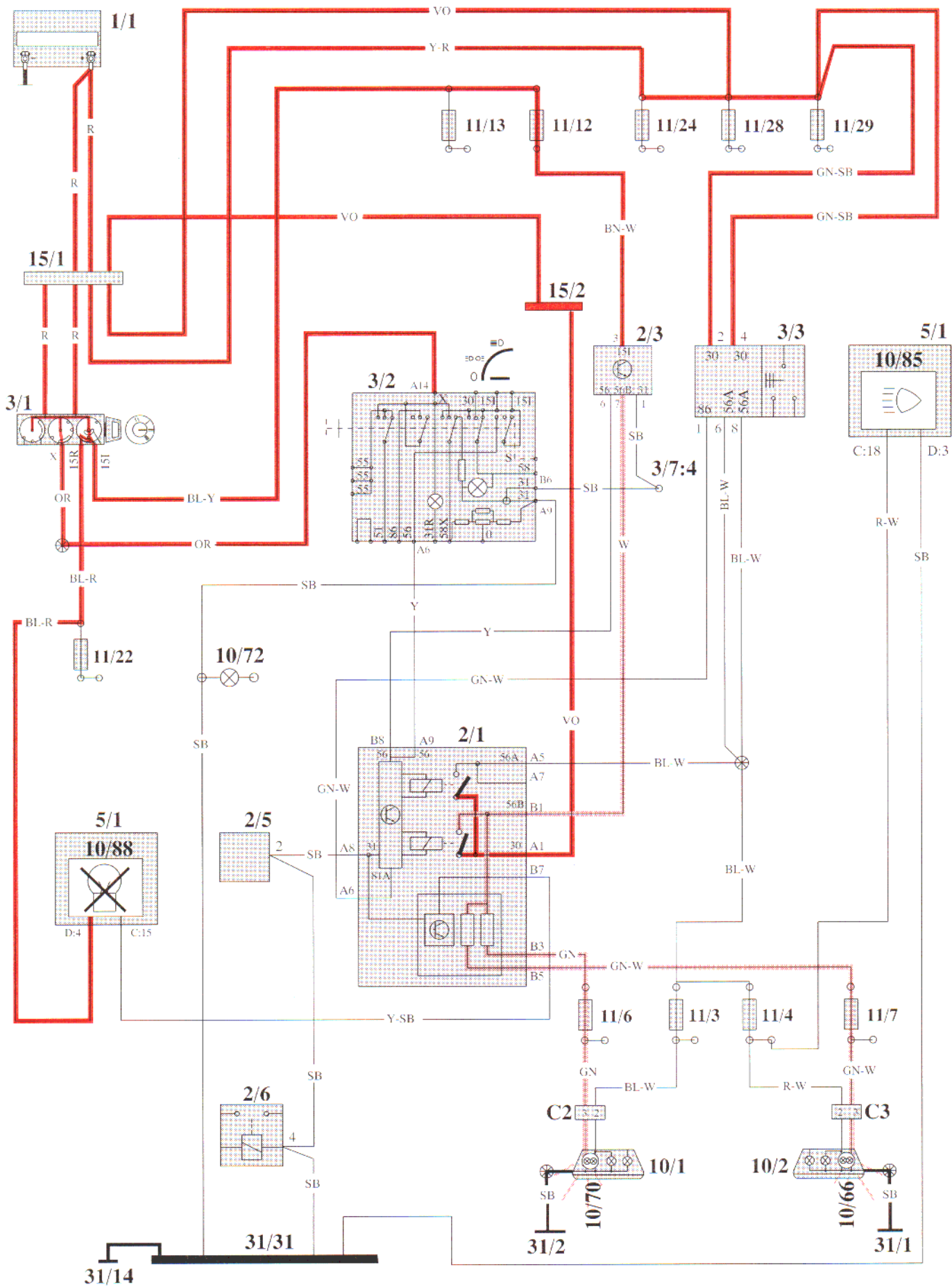
Switch to low beam

Switch to high beam

Headlight flash



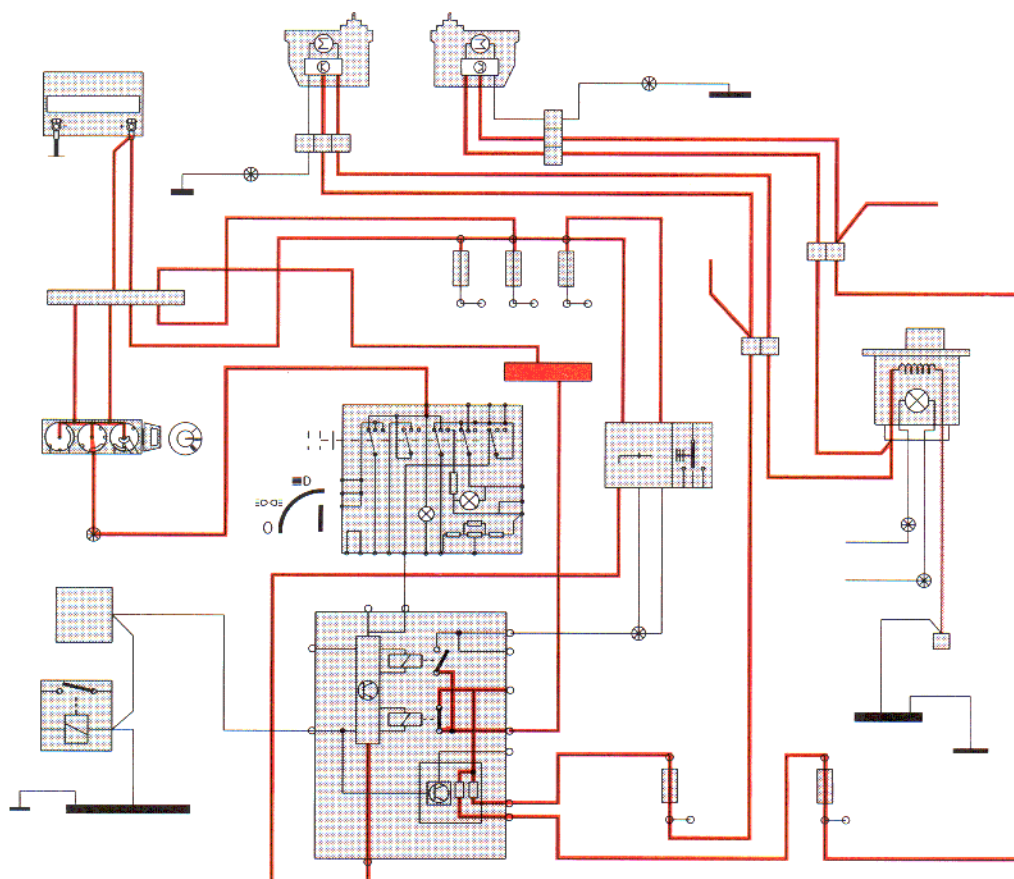
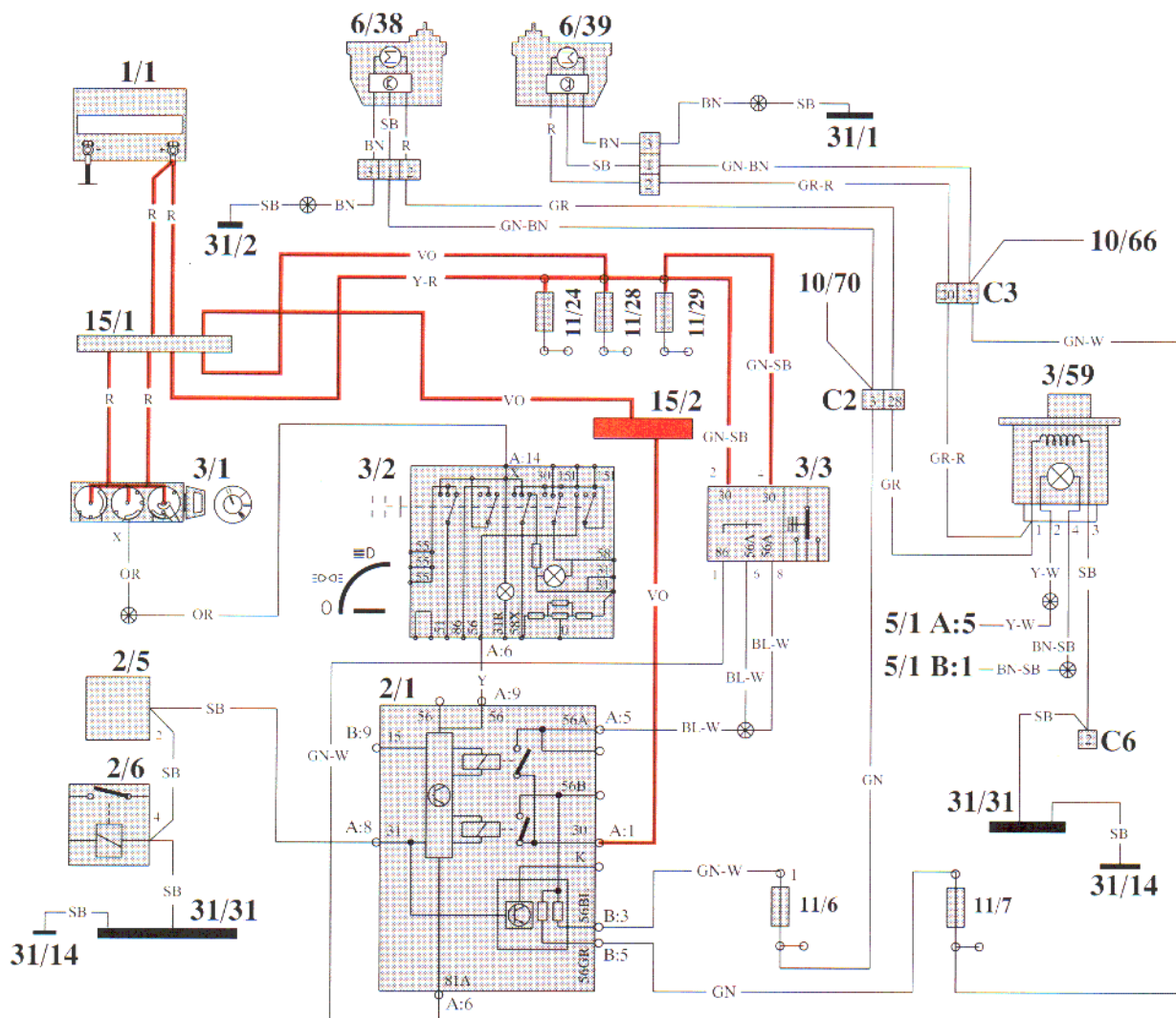
Reduced intensity low beam (DIM-DIP), Great Britain



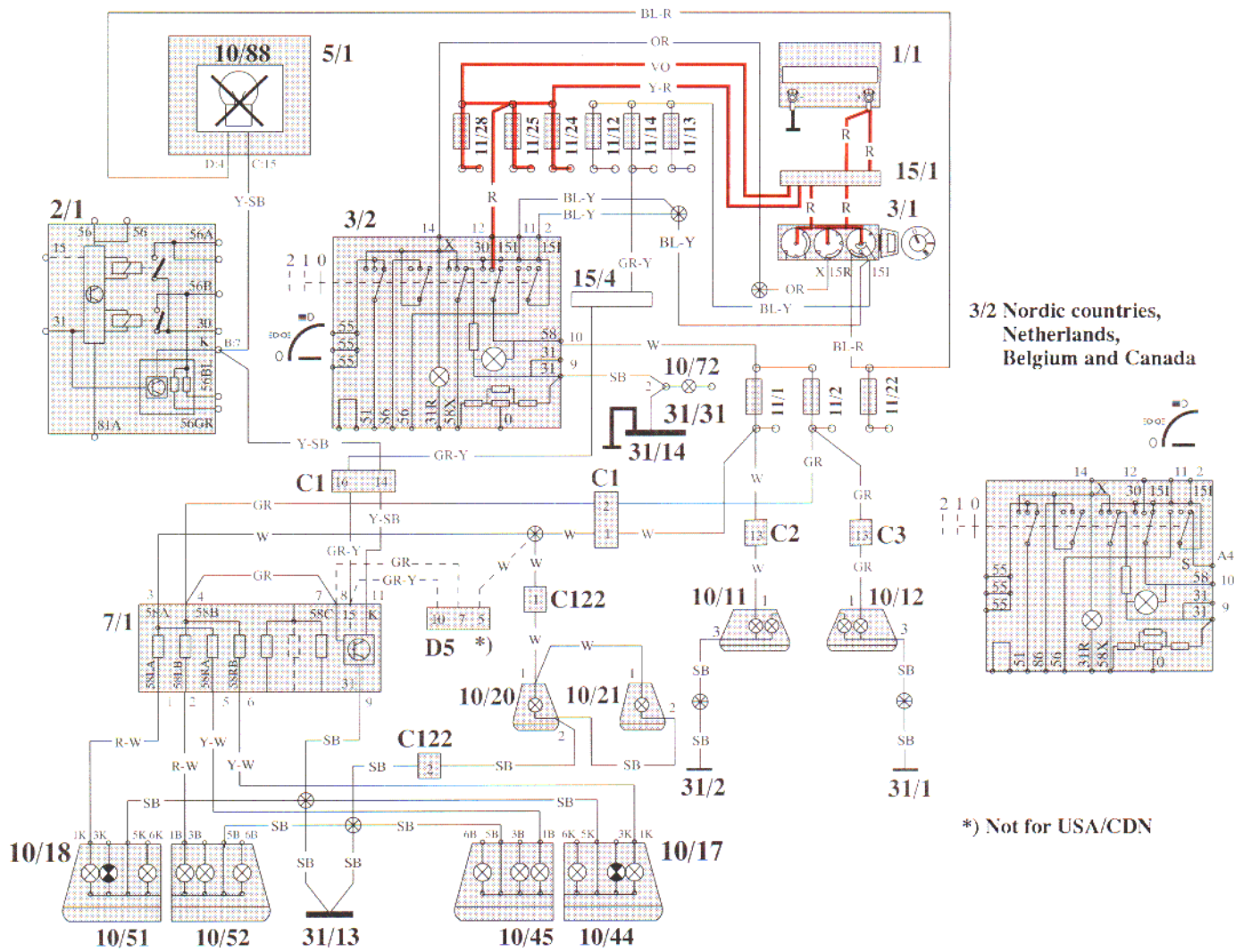
**Reduced intensity low beam only
when regulator (2/3) receives
following signals:**

151	56
1	0

Beam width control

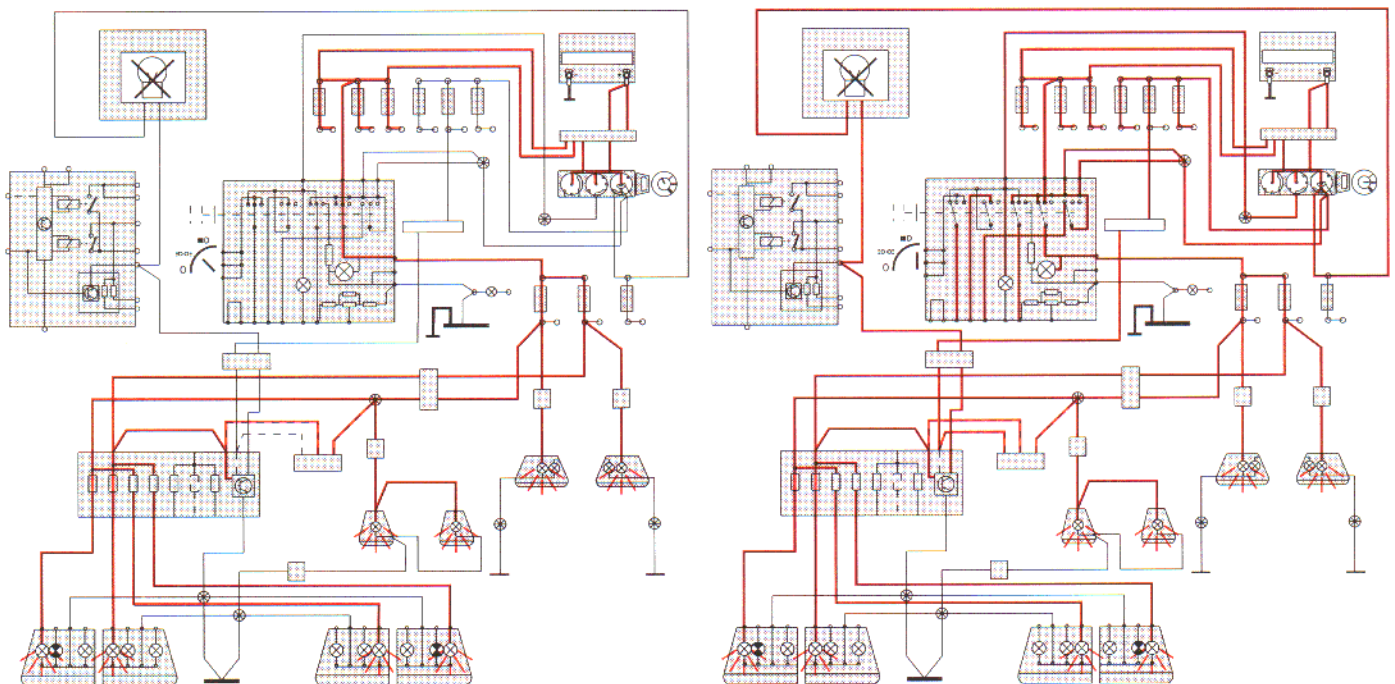


Parking lights, tail lights and number plate lights, 4-door

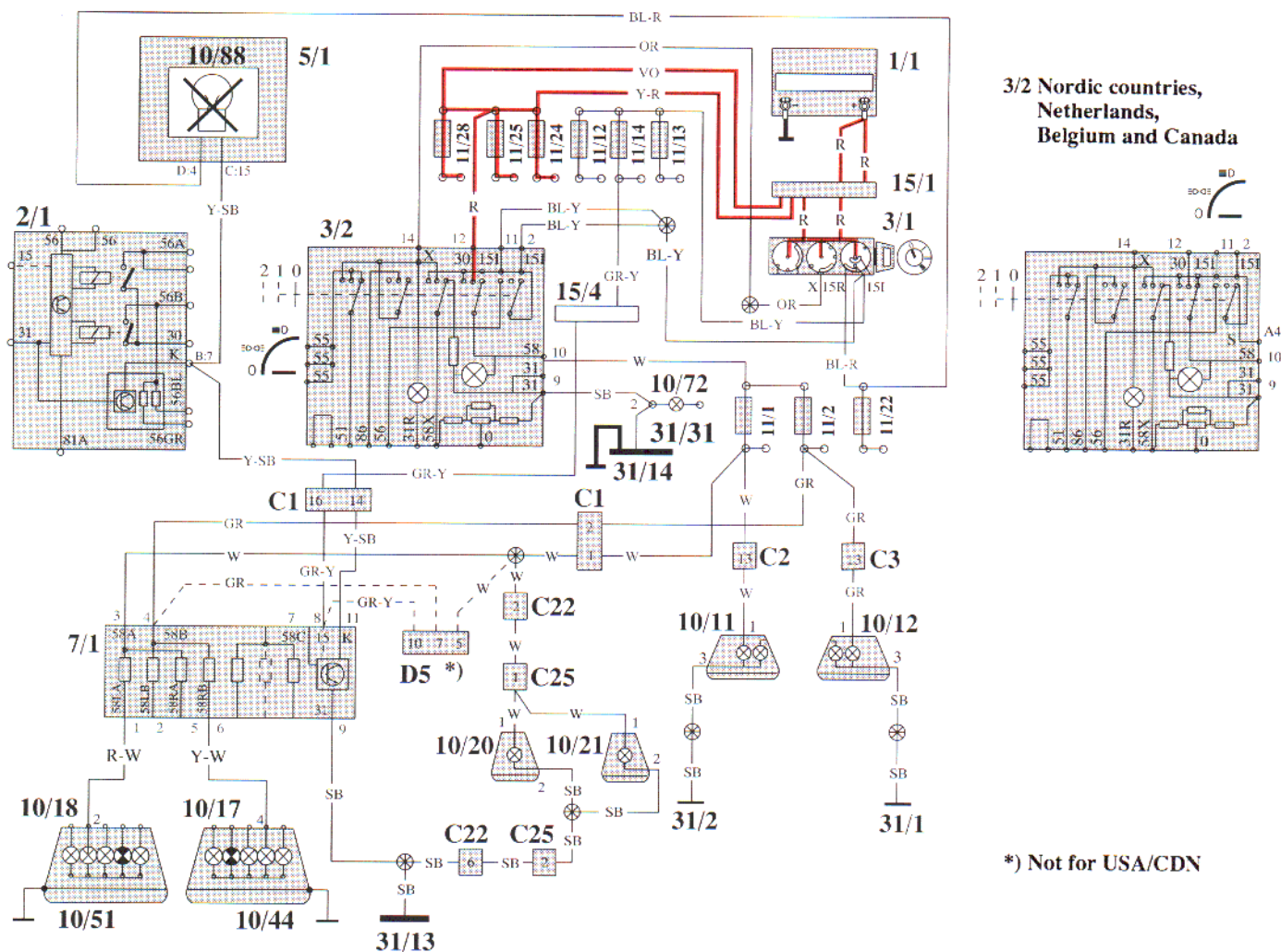


Ignition key in position 0.
Light switch at parking light position.

Ignition key at II.
Light switch at low/high beam setting.

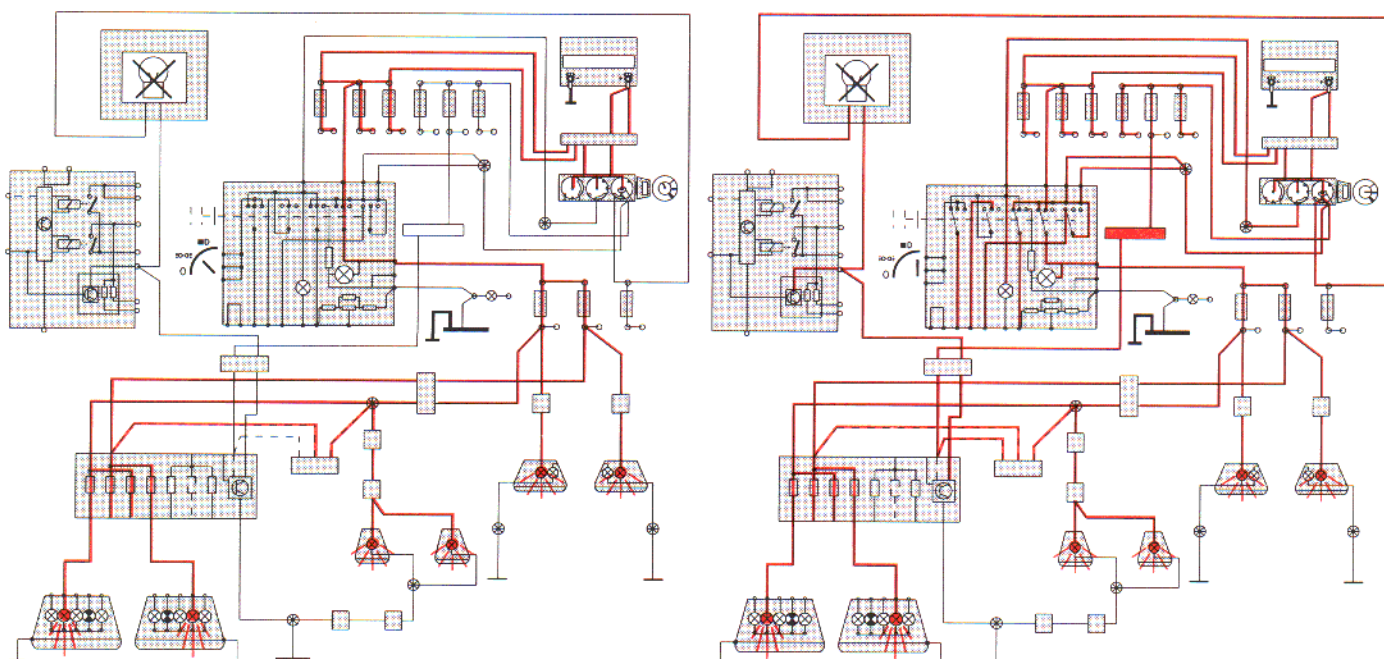


Parking lights, tail lights and number plate lights, 5-door

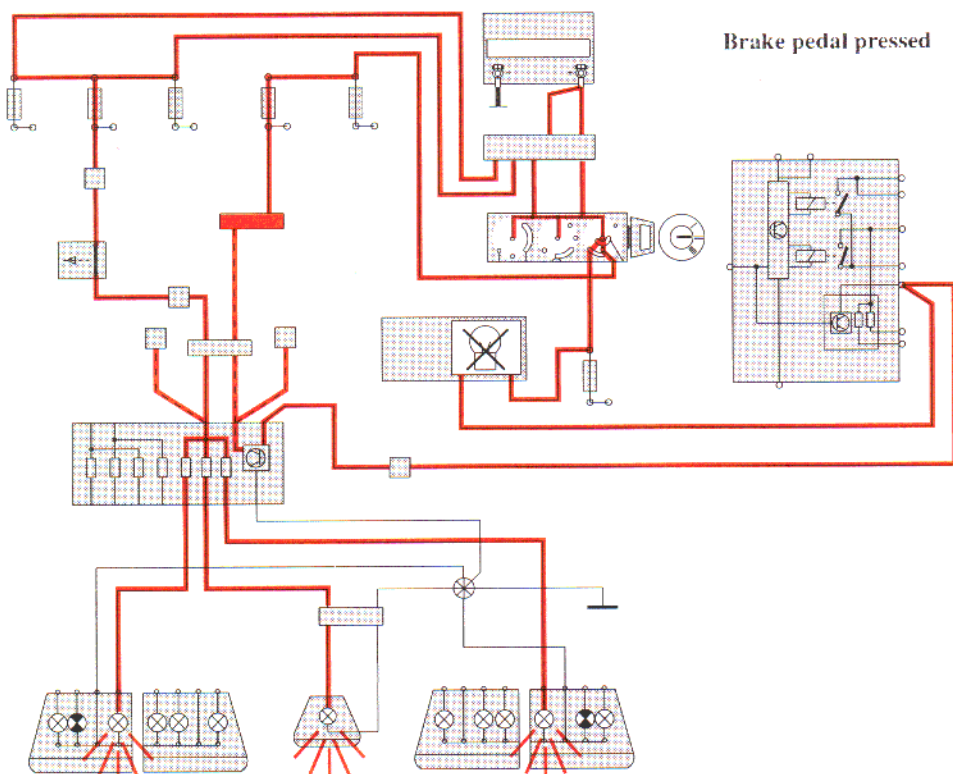
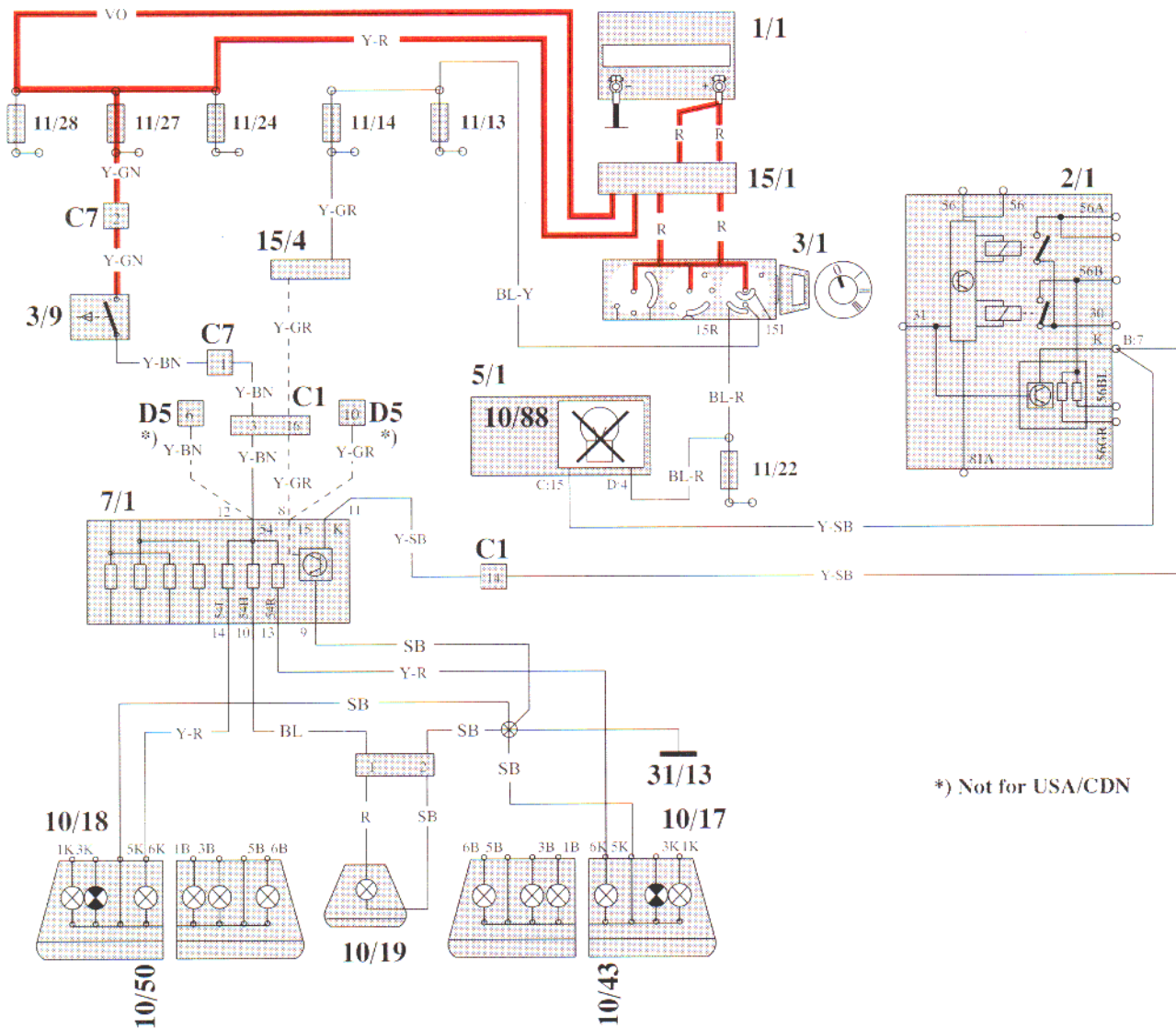


Ignition key in position 0.
Light switch at parking light position.

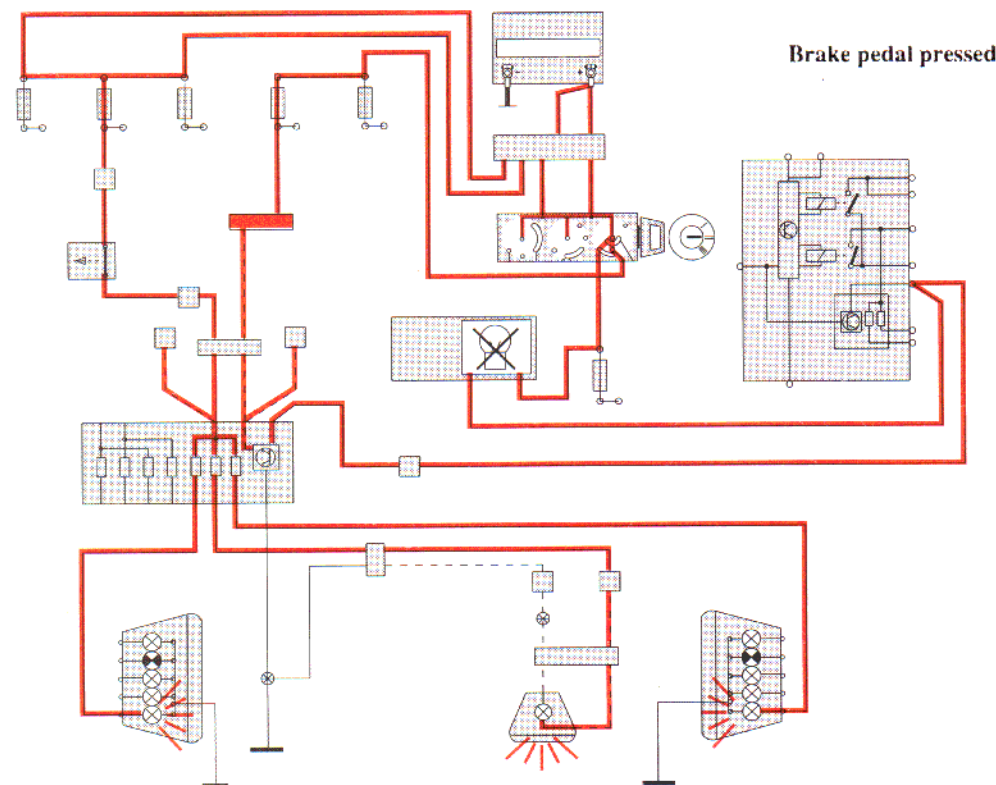
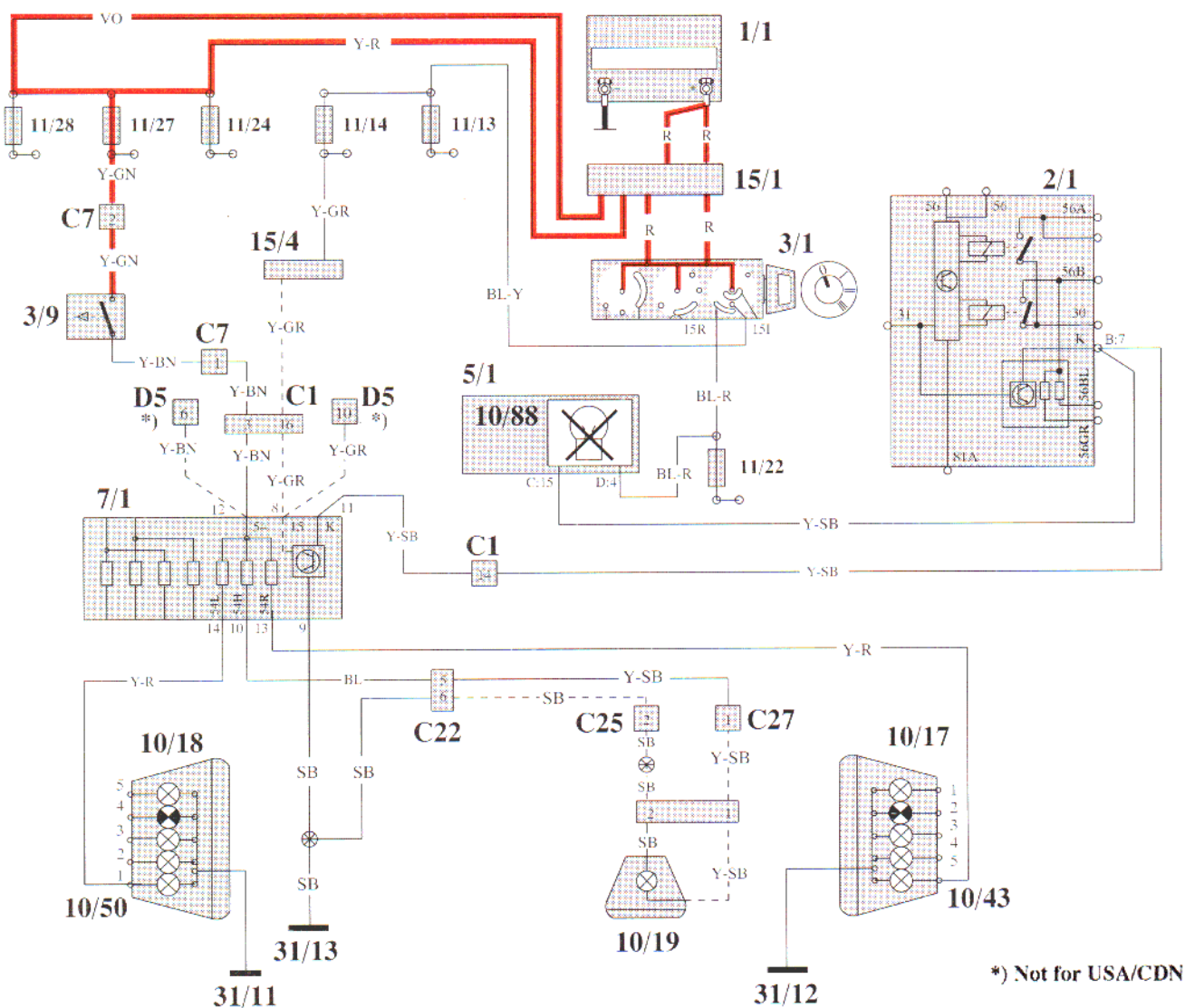
Ignition key at II.
Light switch at low/high beam setting.



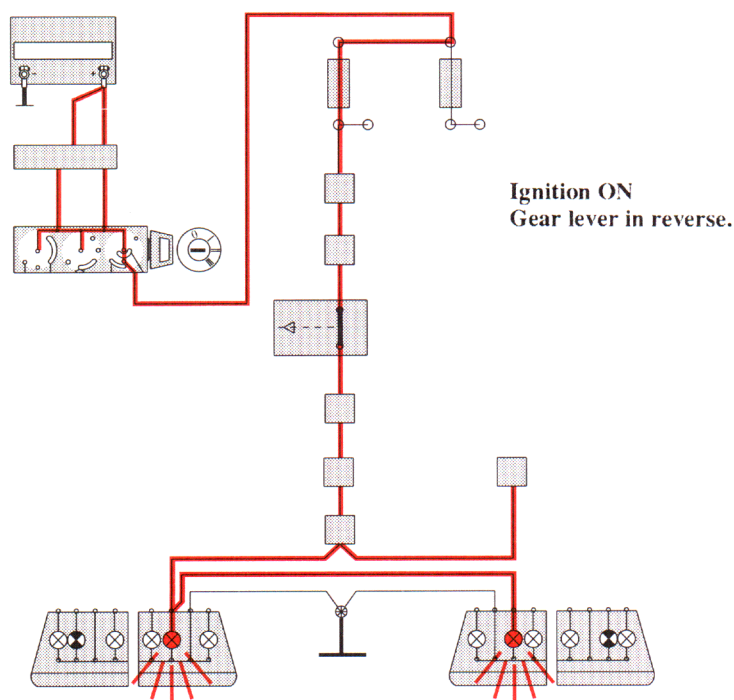
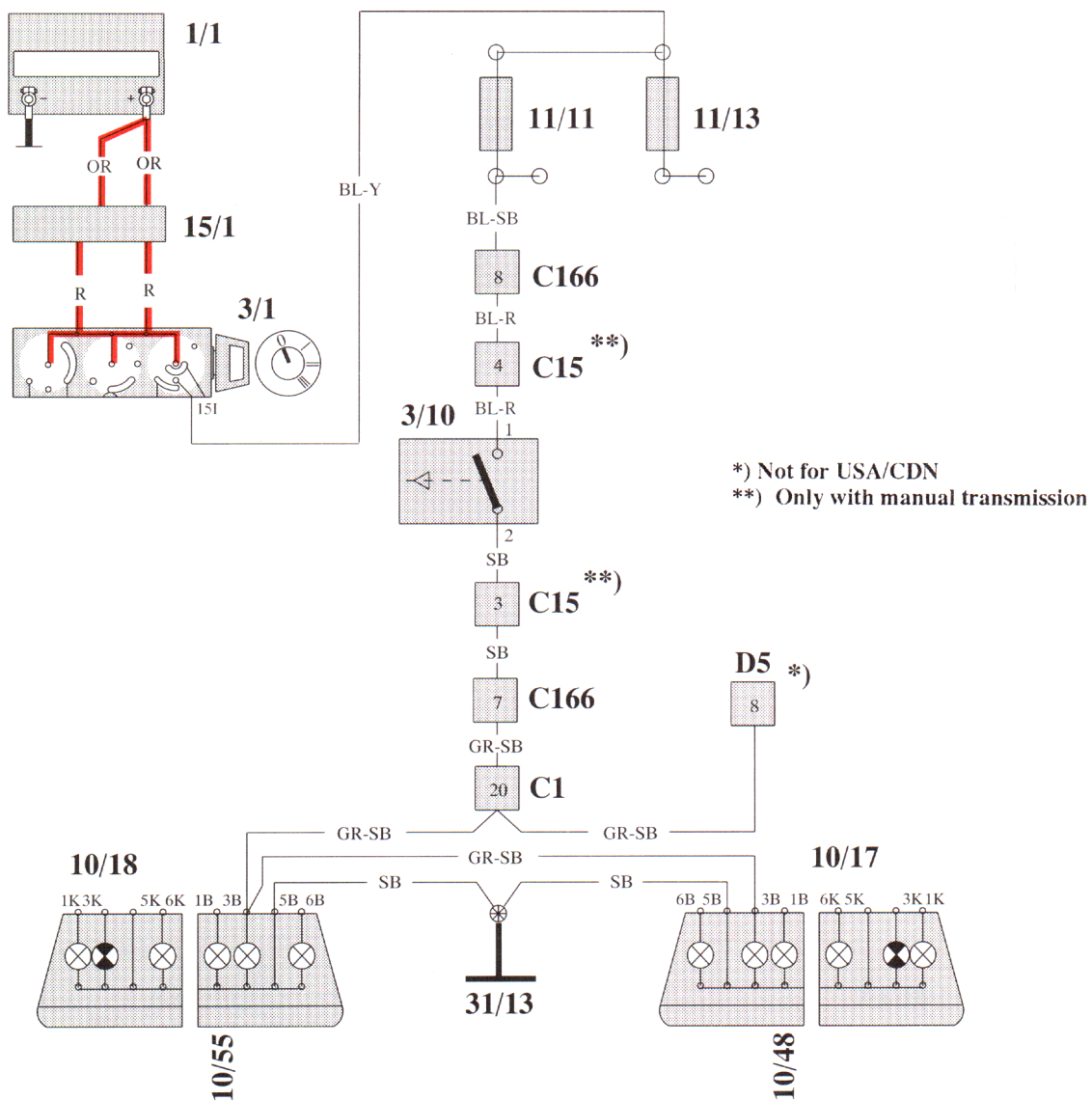
Brake lights, 4-door



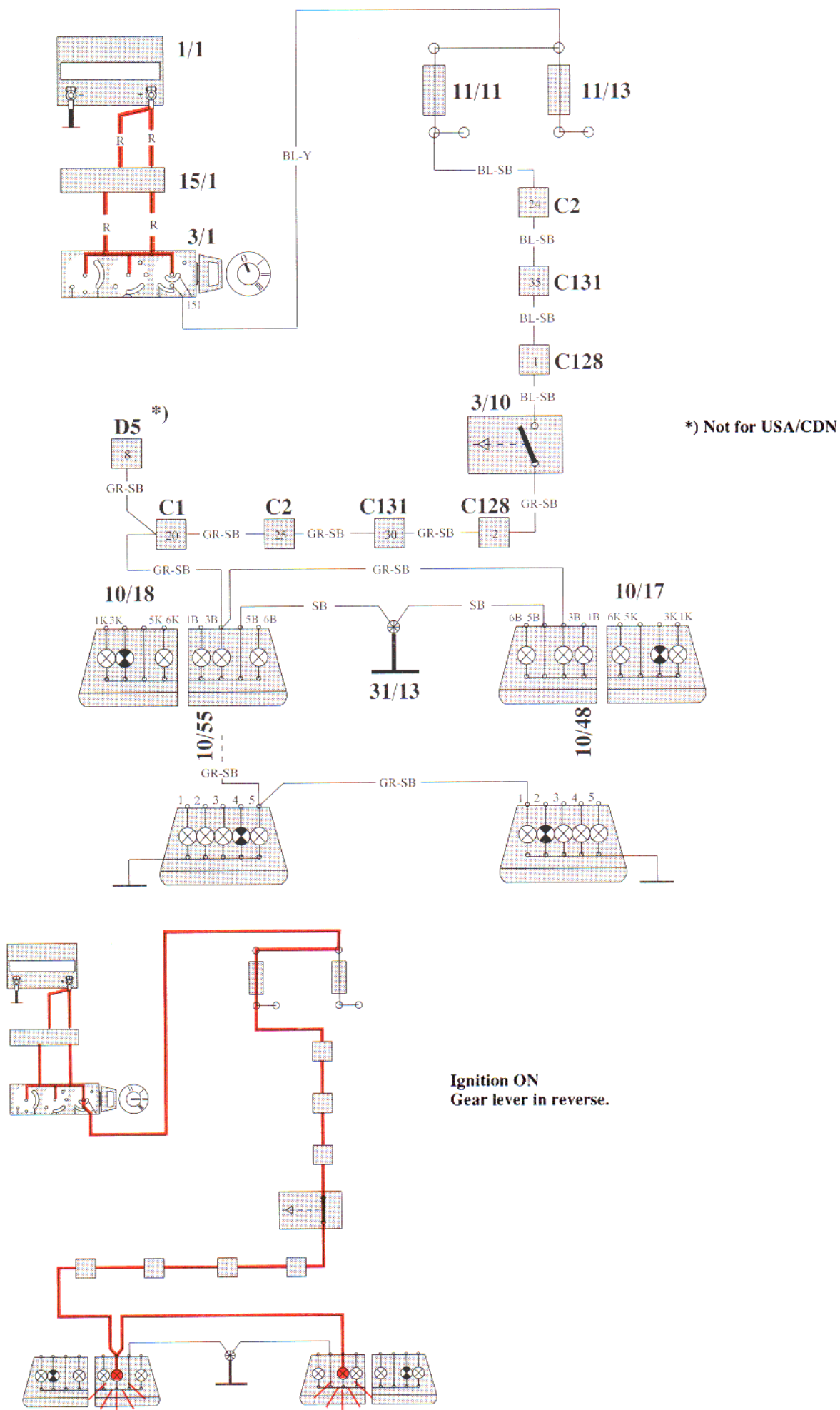
Brake lights, 5-door



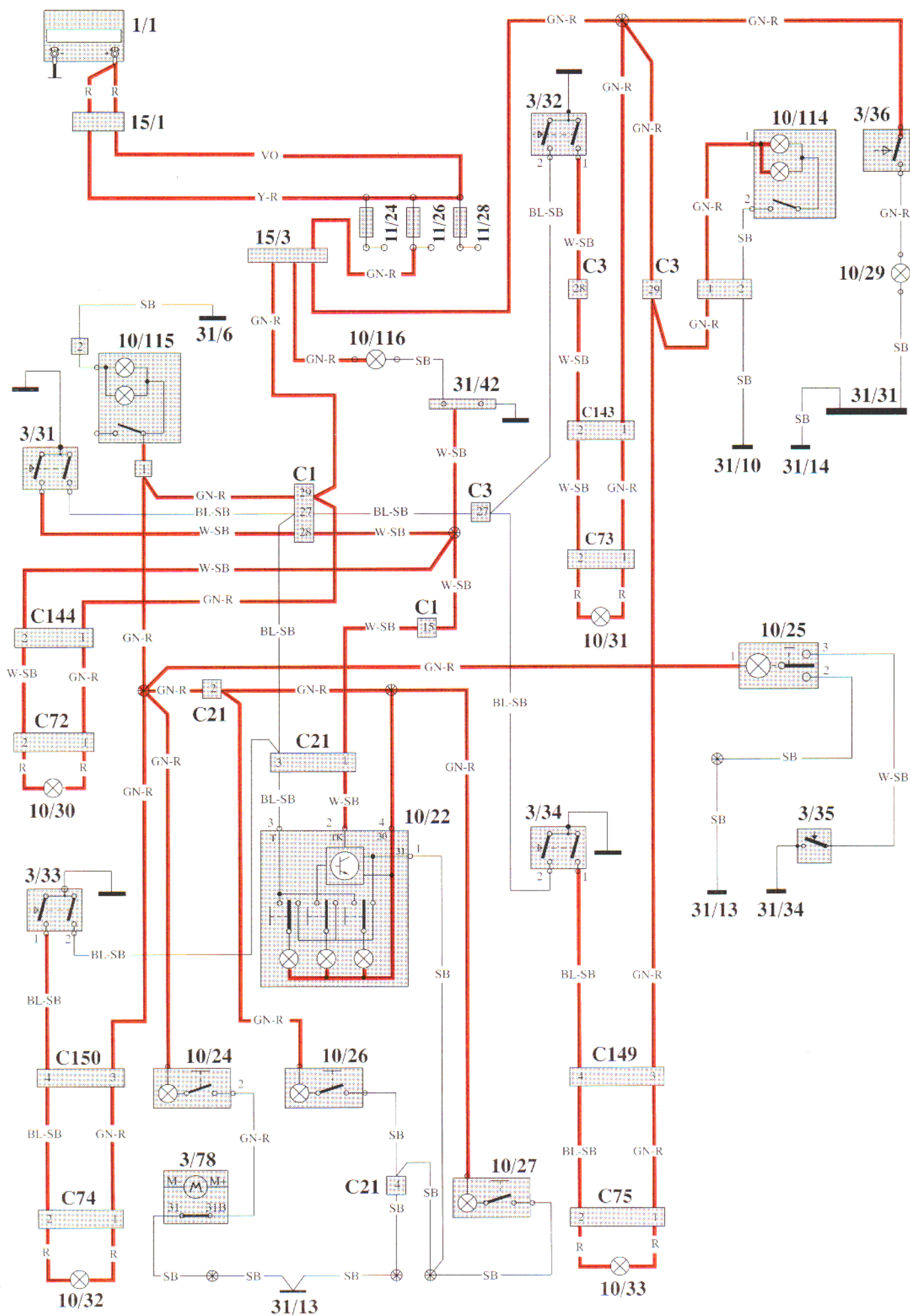
Backup (reversing) lights



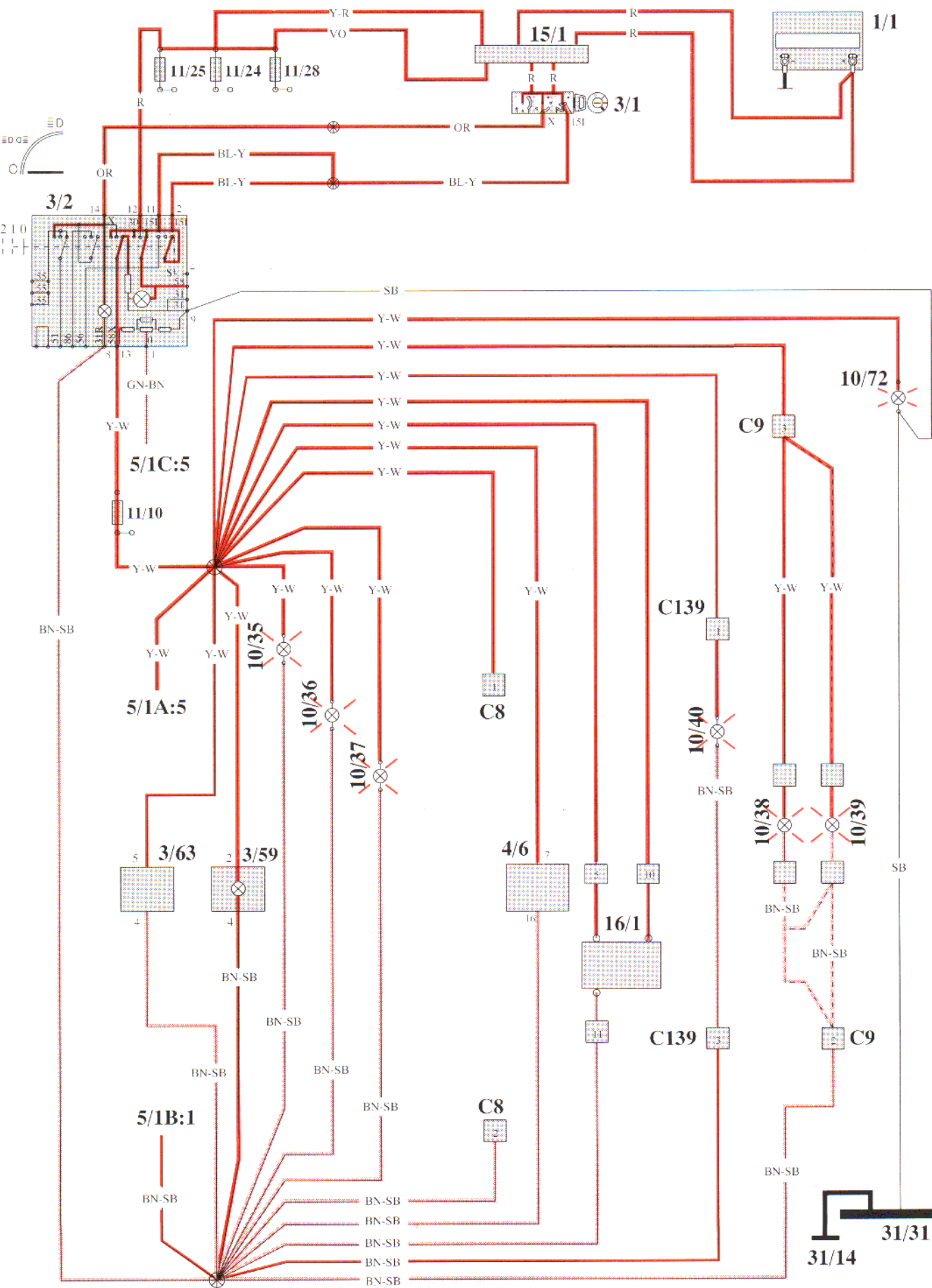
Backup (reversing) lights (B6304F/G)



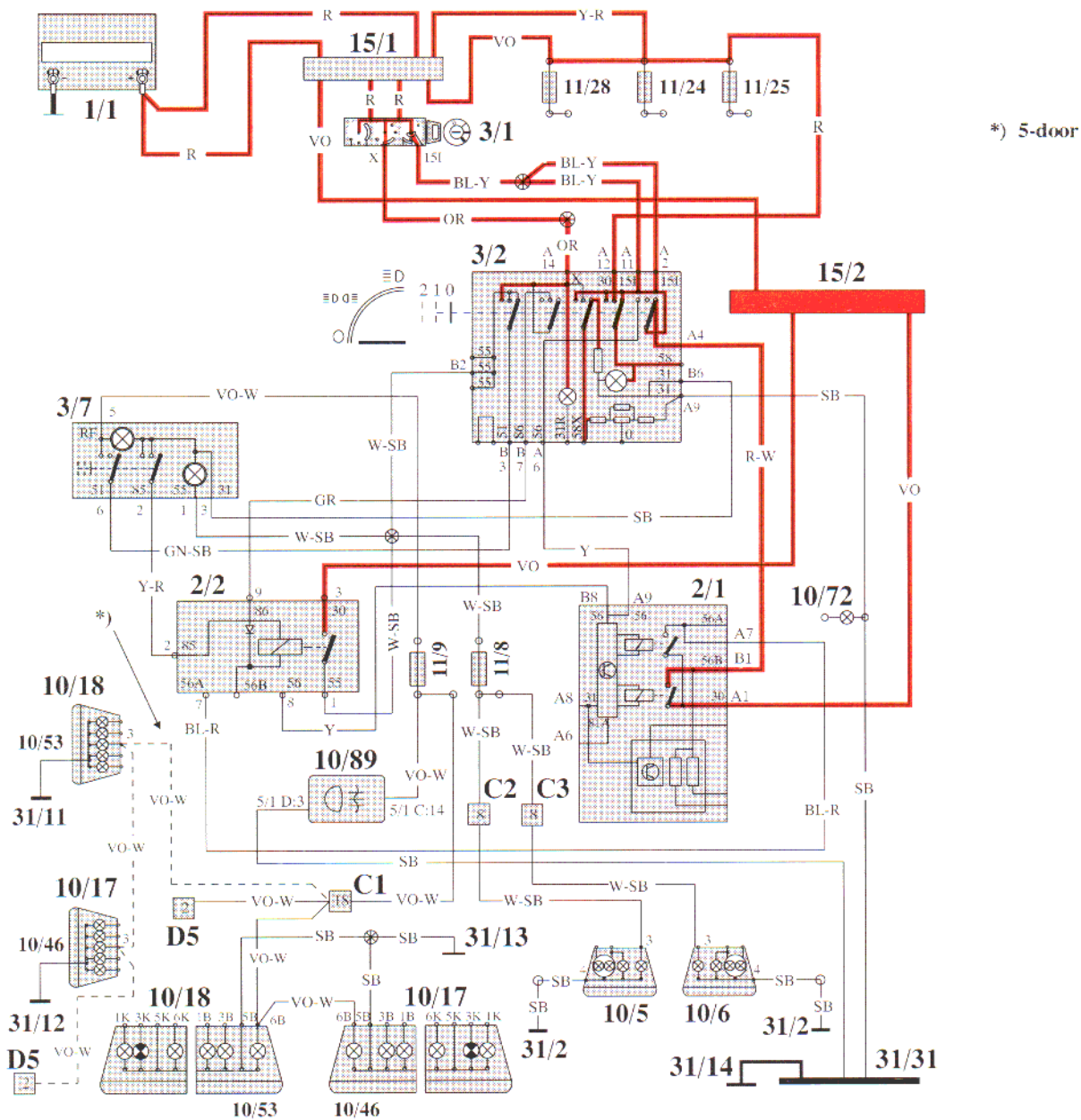
Interior, trunk and door-open warning lights



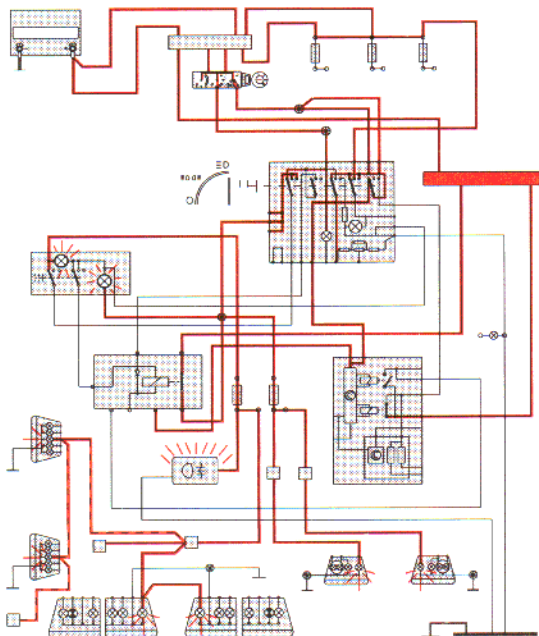
Control illumination



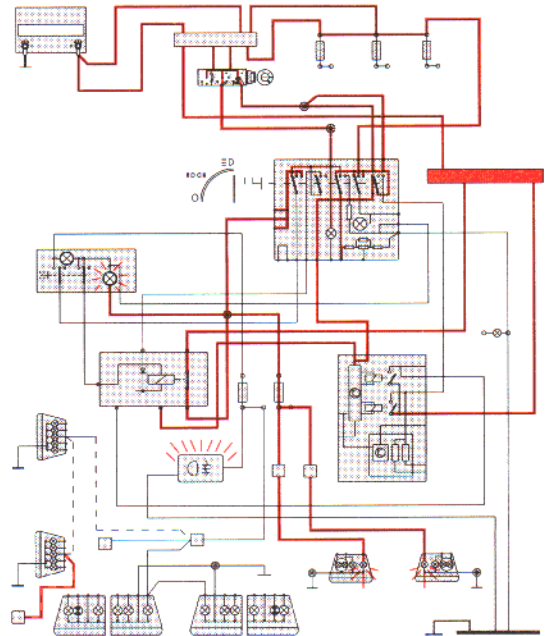
Fog lights, Europe and Australia



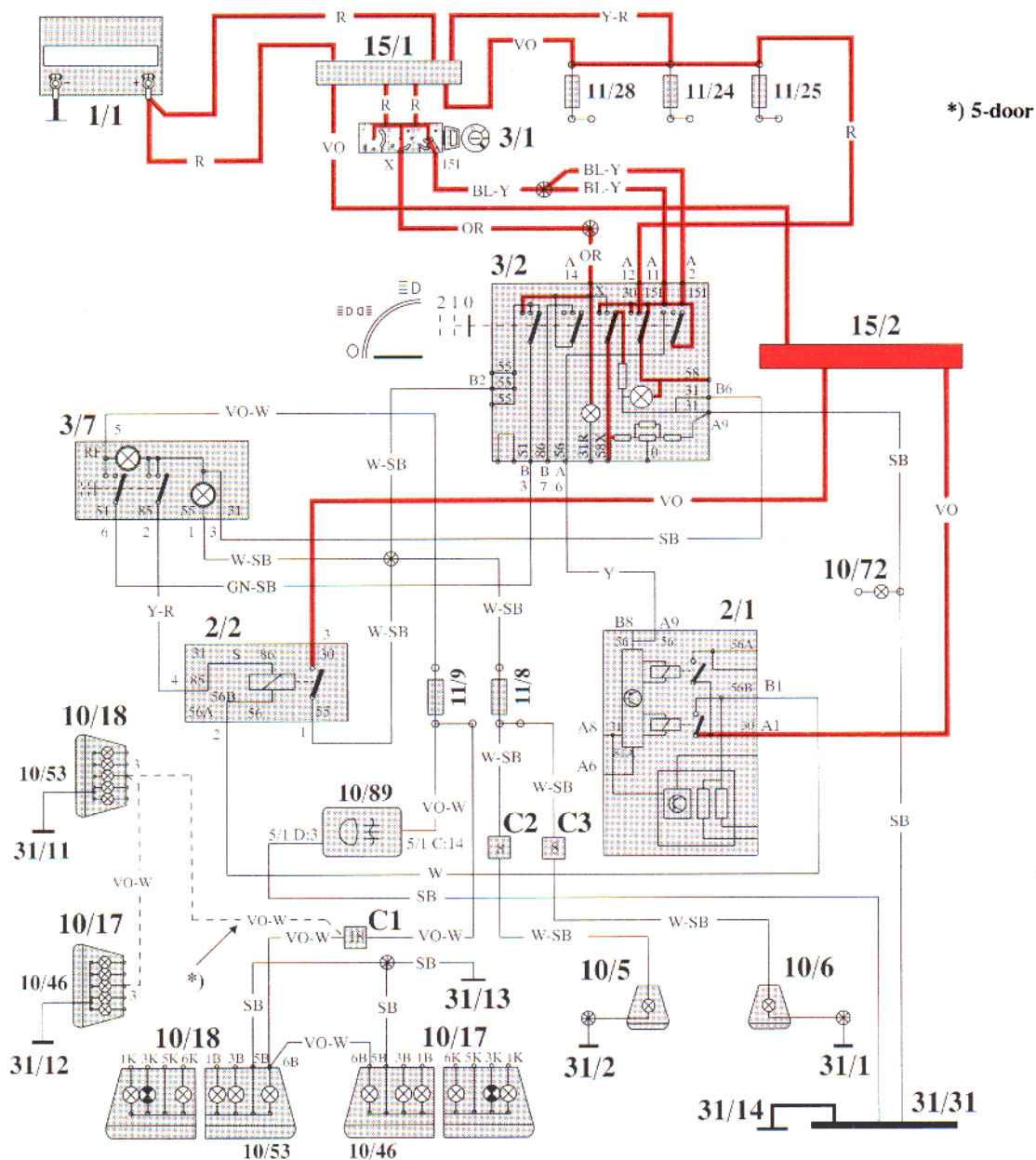
Foglight switch in position for foglight front and rear



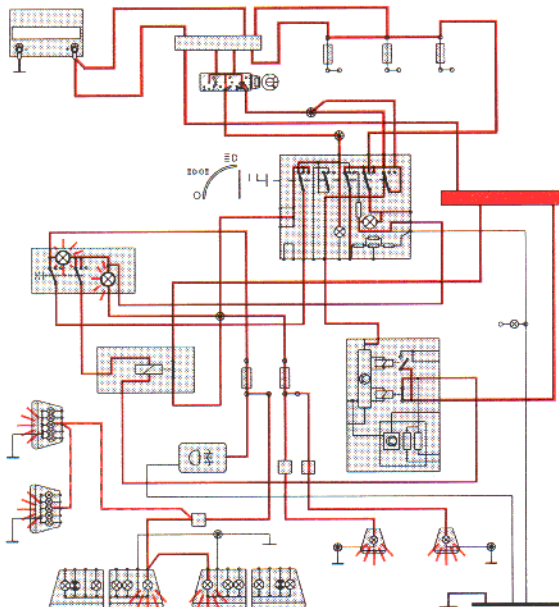
Foglight switch in position for foglight front



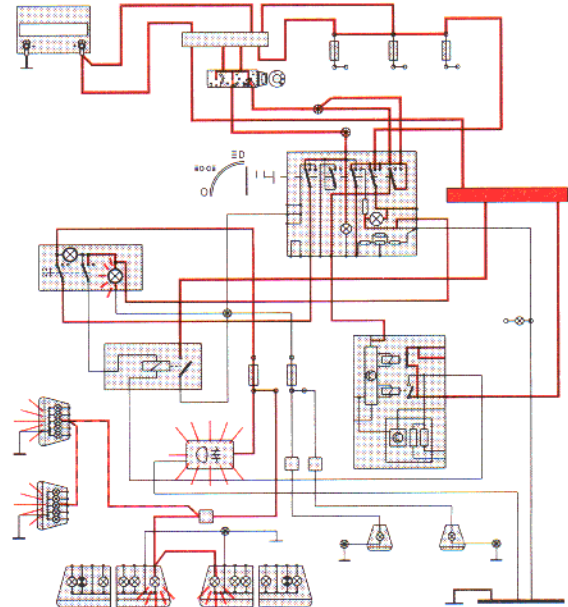
Fog lights, USA/Canada



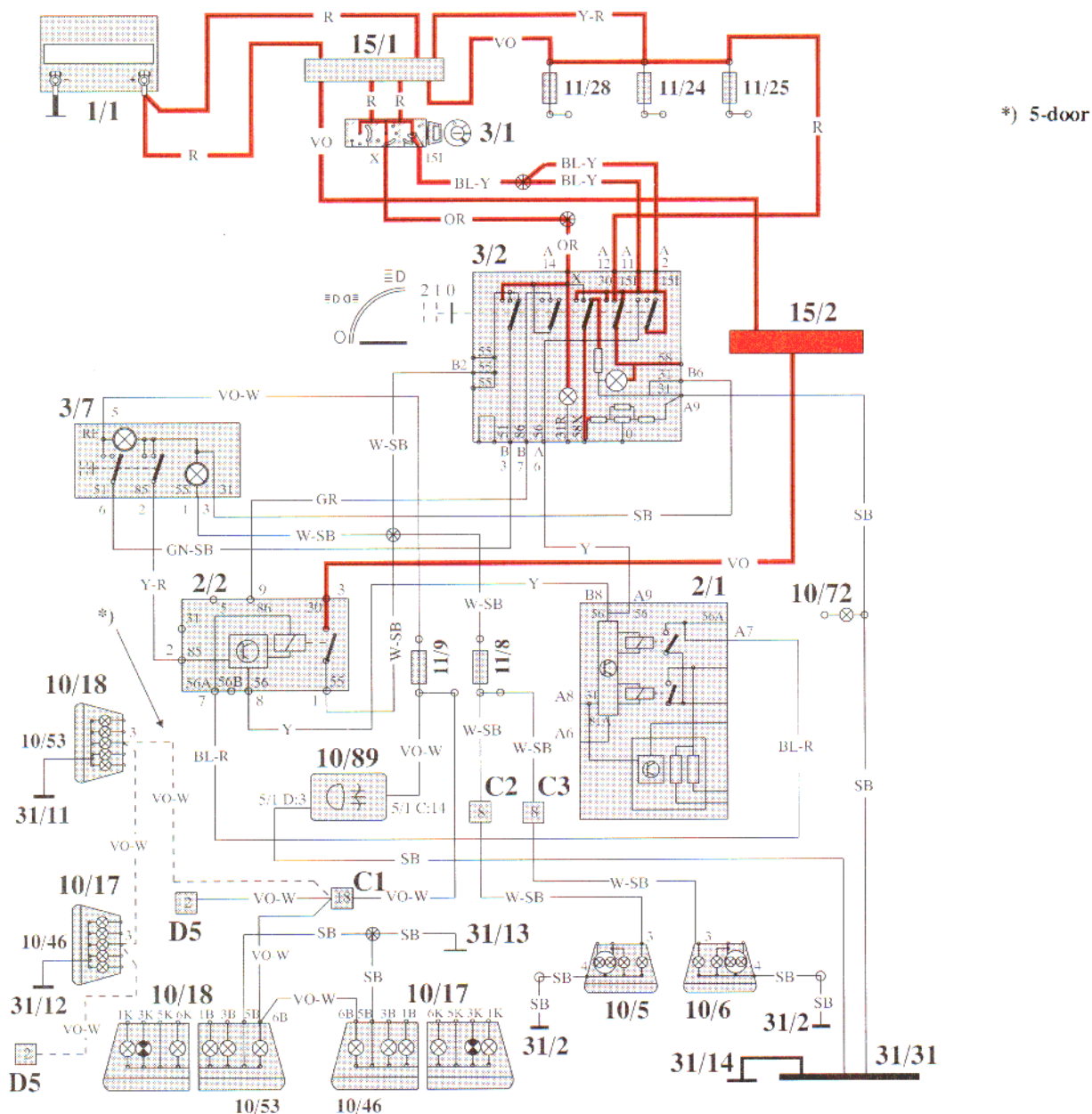
Foglight switch in position for front and rear foglight, and high/low beam switch in low-beam position.



Foglight switch in position for front and rear foglights, and high/low beam switch in position for high beam.

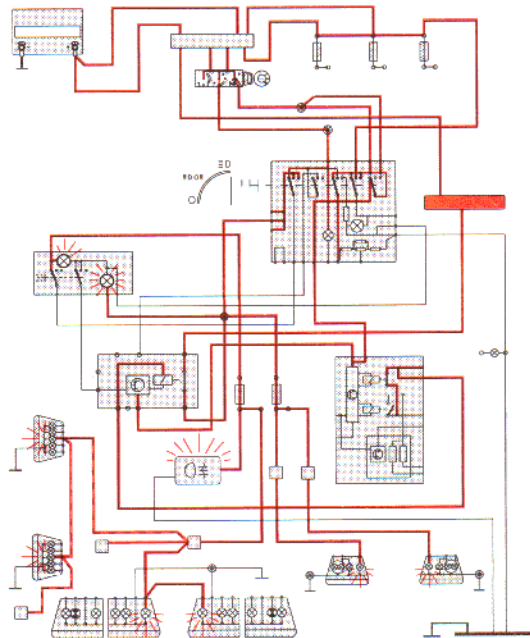
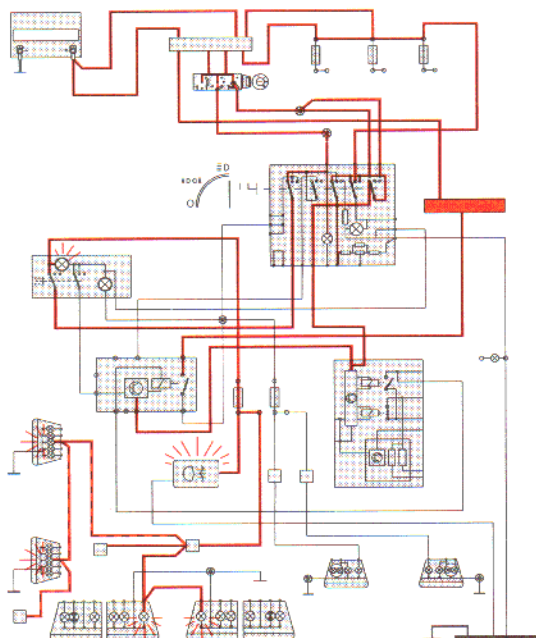


Fog lights Japan, Taiwan, Saudi Arabia and Overseas



Foglight switch in position for foglights front and rear
High/low beam switch in position for low beam

Foglight switch in position for foglights front and rear
High/low beam switch in position for high beam



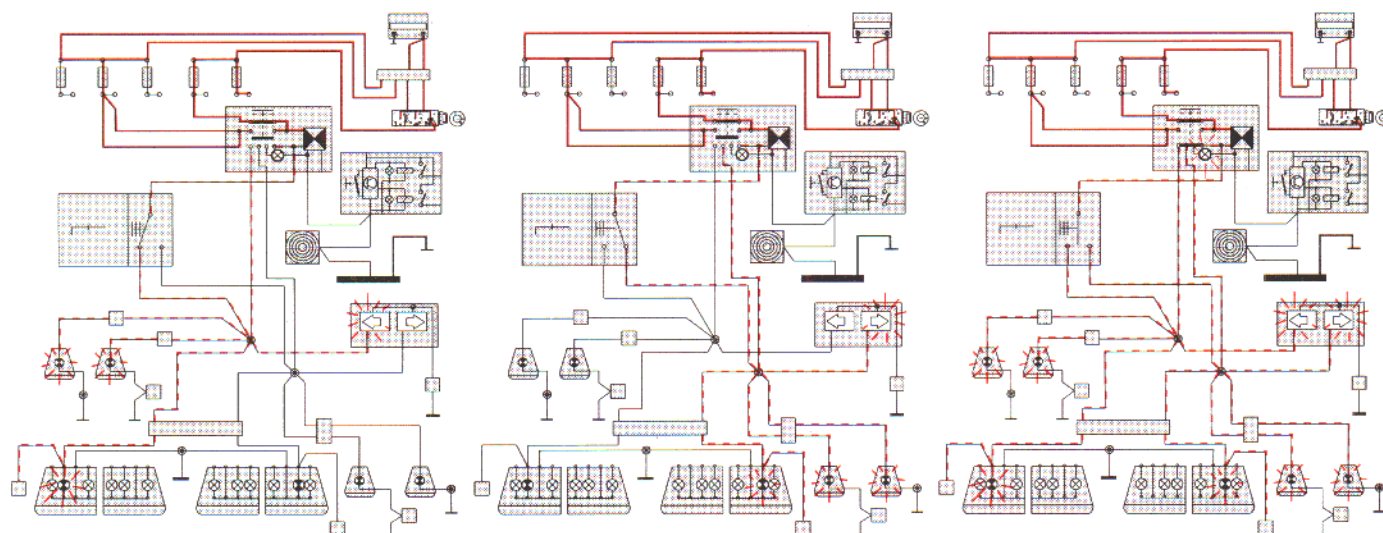
Turn signals and hazard warning lights



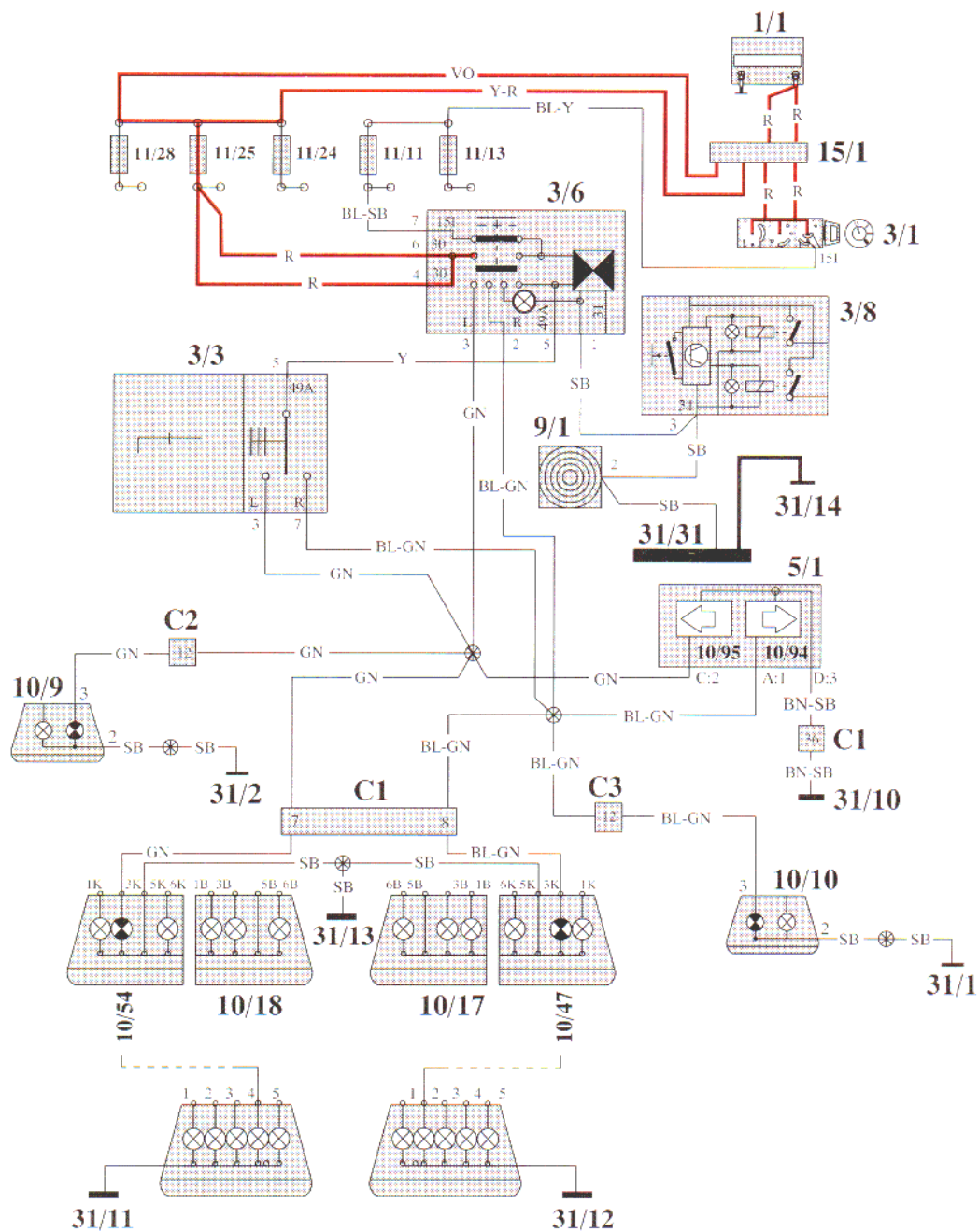
Left turn signal ON.

Right turn signal ON

Hazard lights ON.



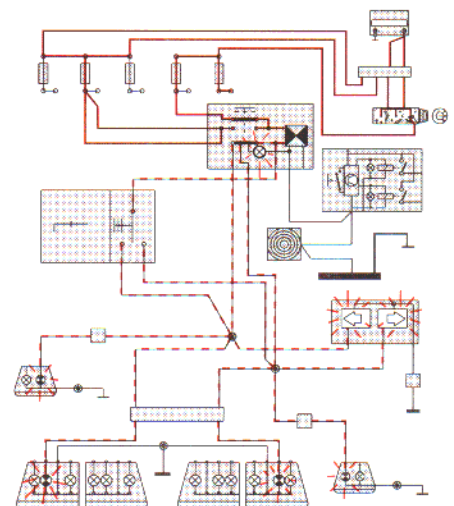
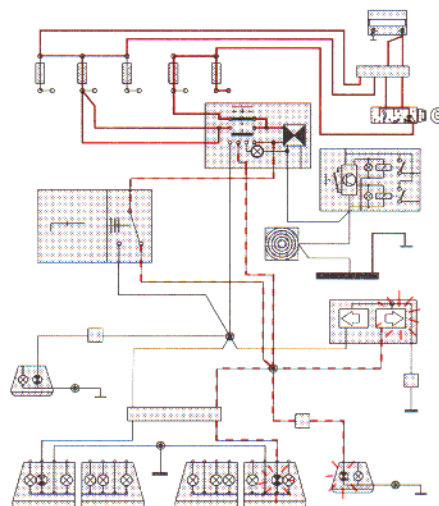
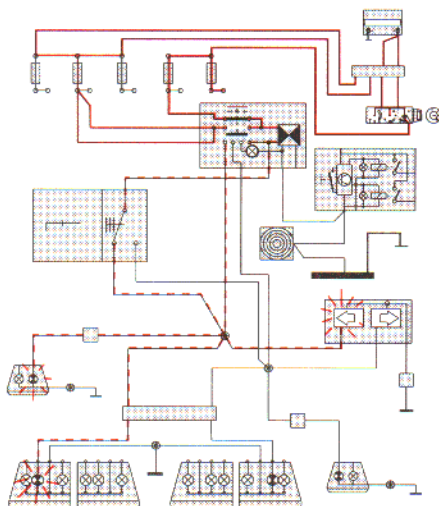
Turn signals and hazard warning lights, USA/Canada



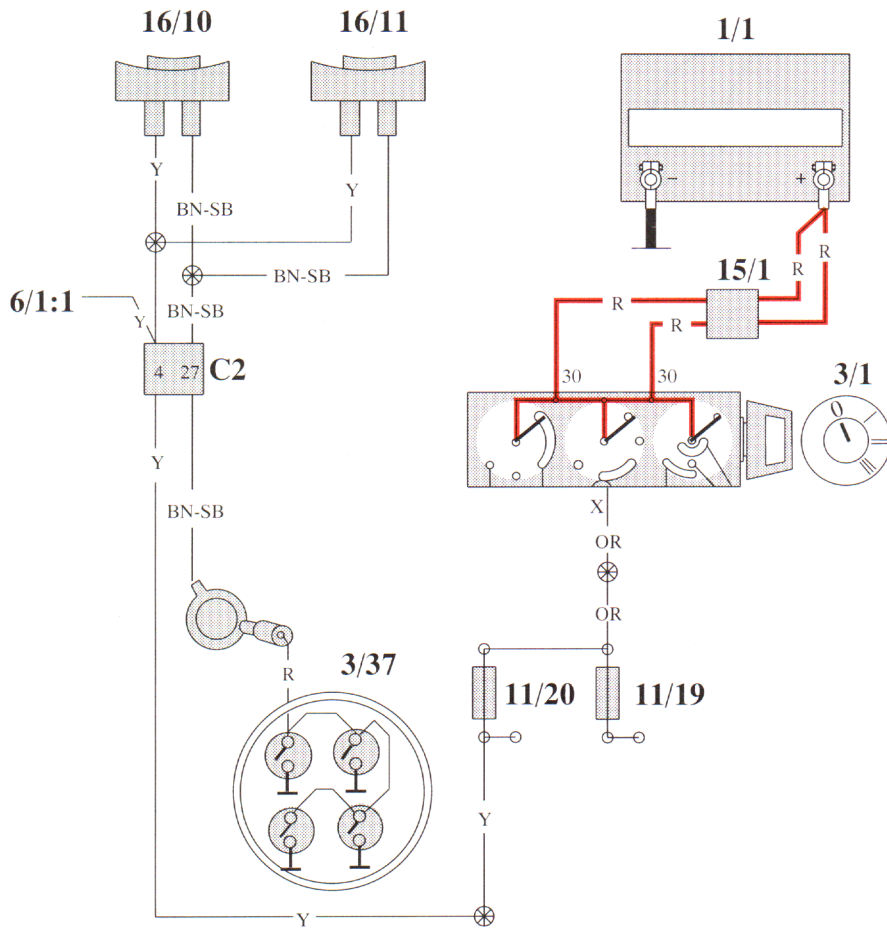
Left turn signal ON.

Right turn signal ON

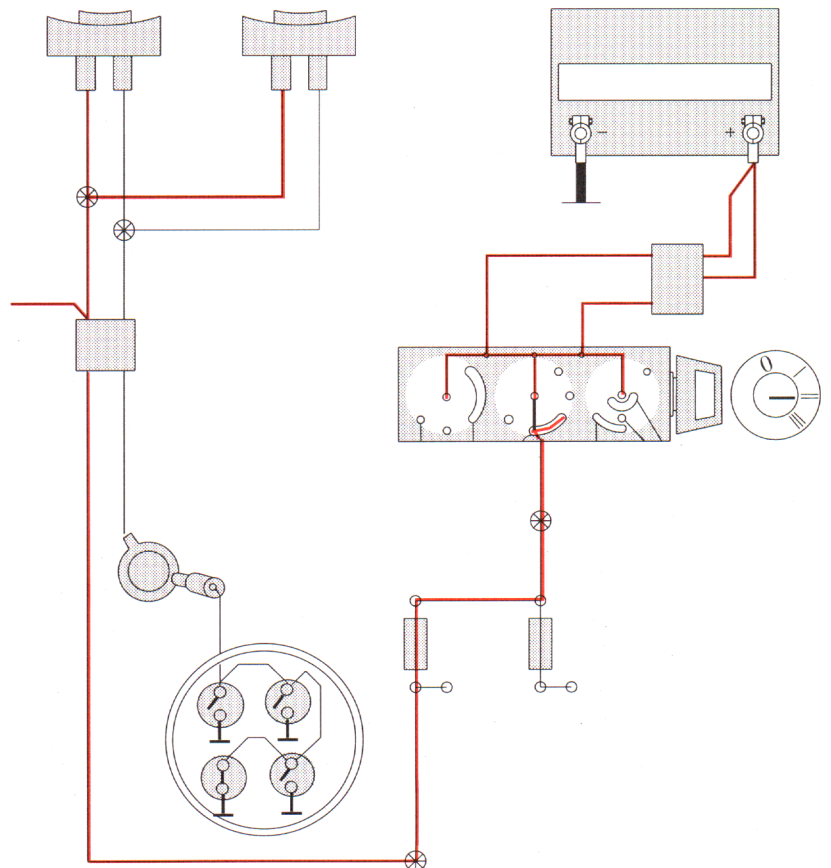
Hazard warning flaschers ON.



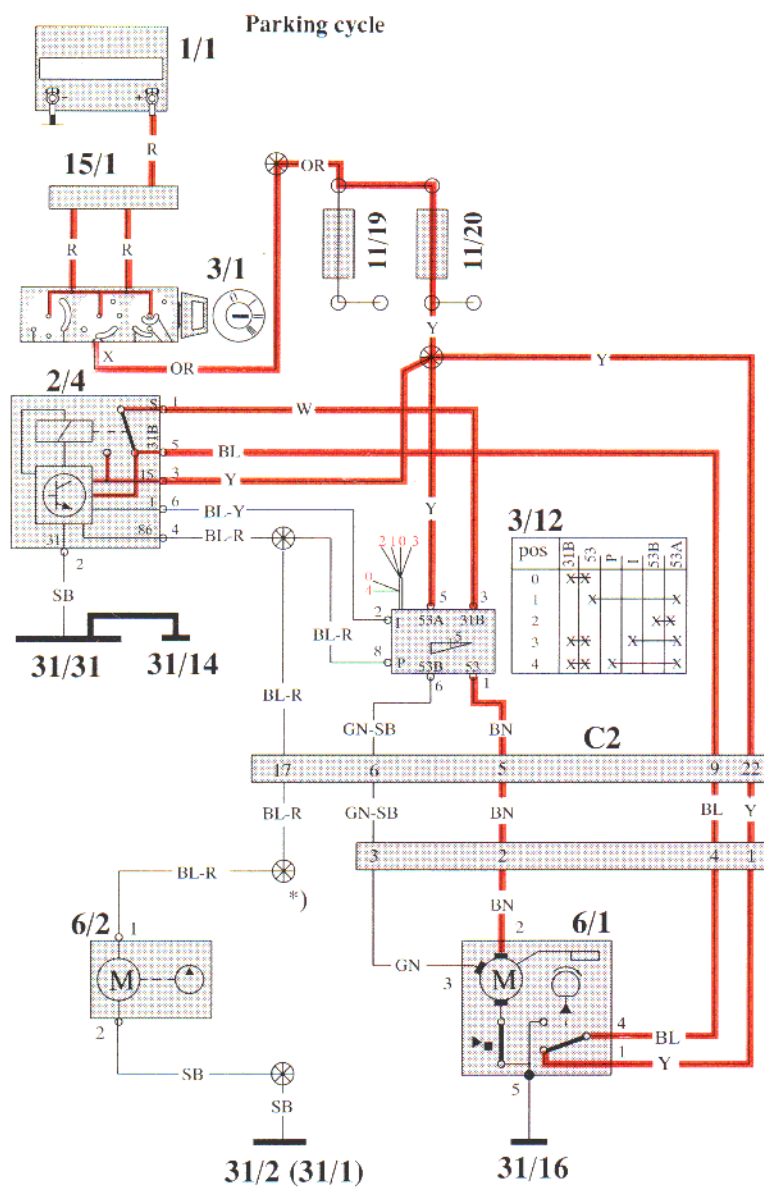
Horn



Horn sounds

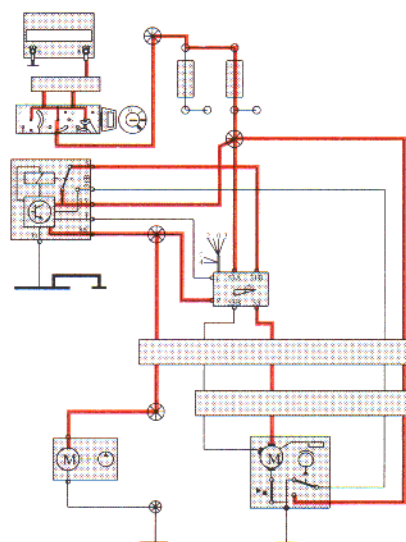


Windshield wash/wipe

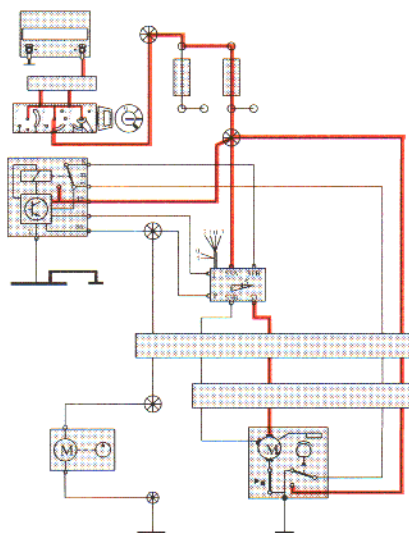


*) Not for USA/CDN

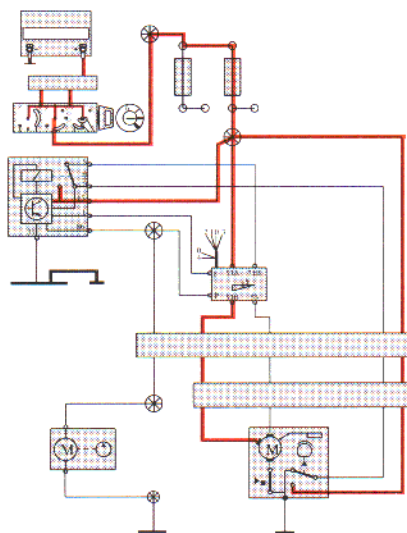
Washing



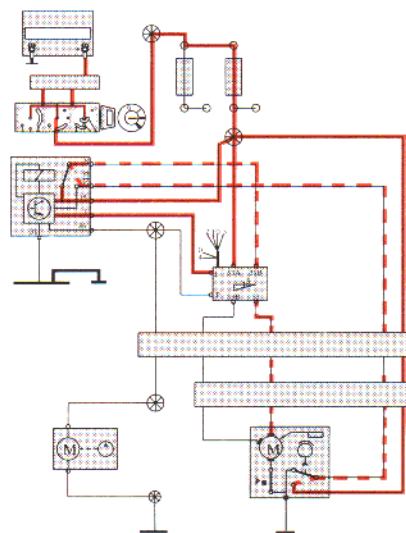
Normal speed



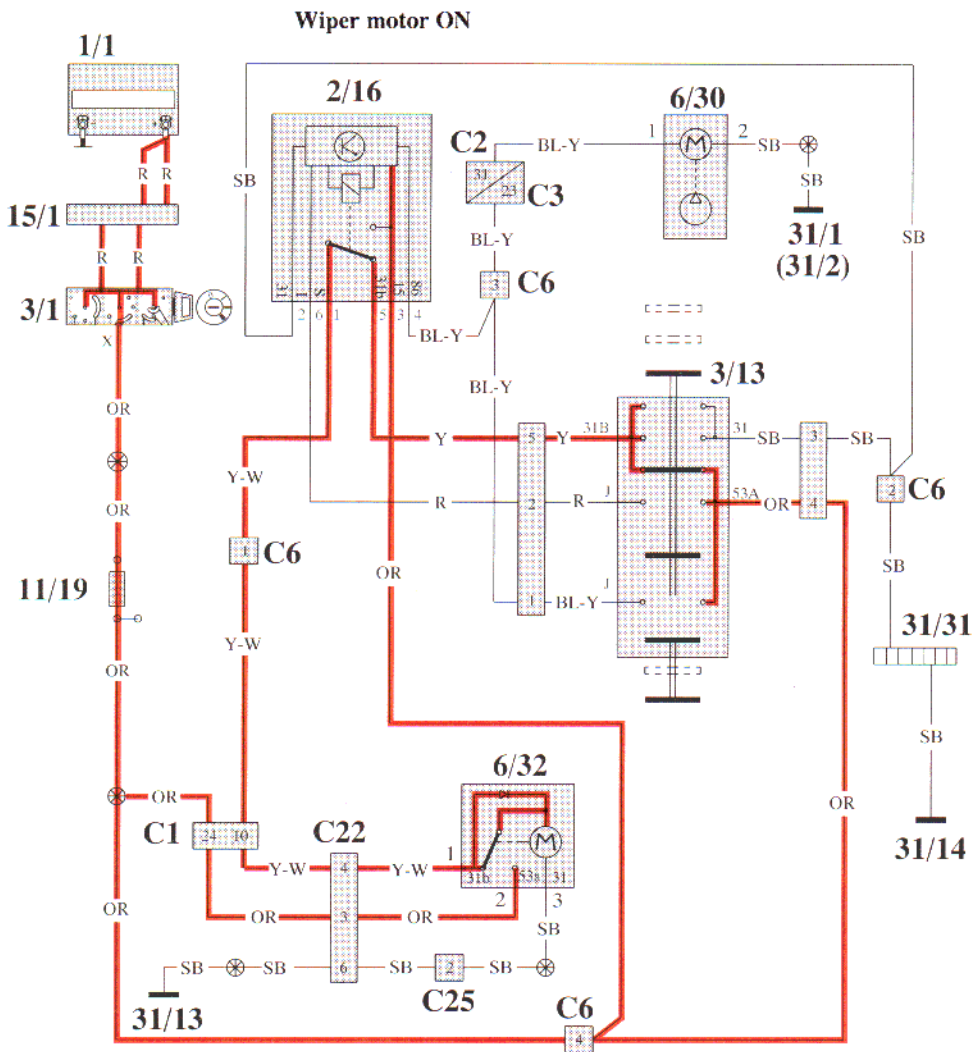
High speed



Intermittent speed



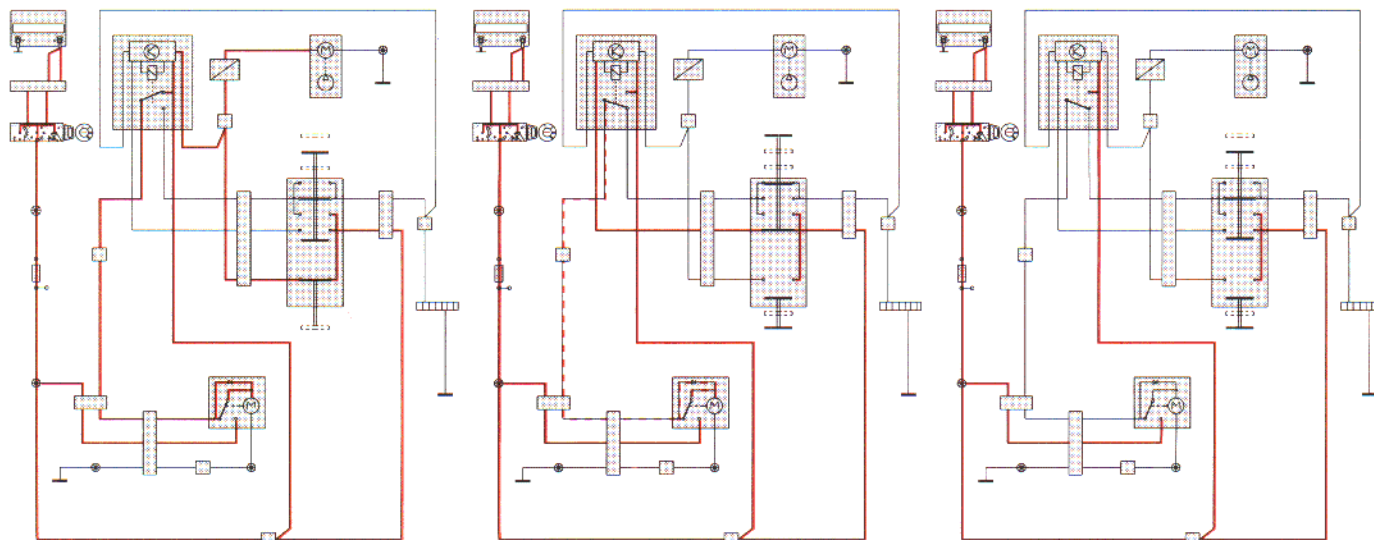
Tailgate wash/wipe



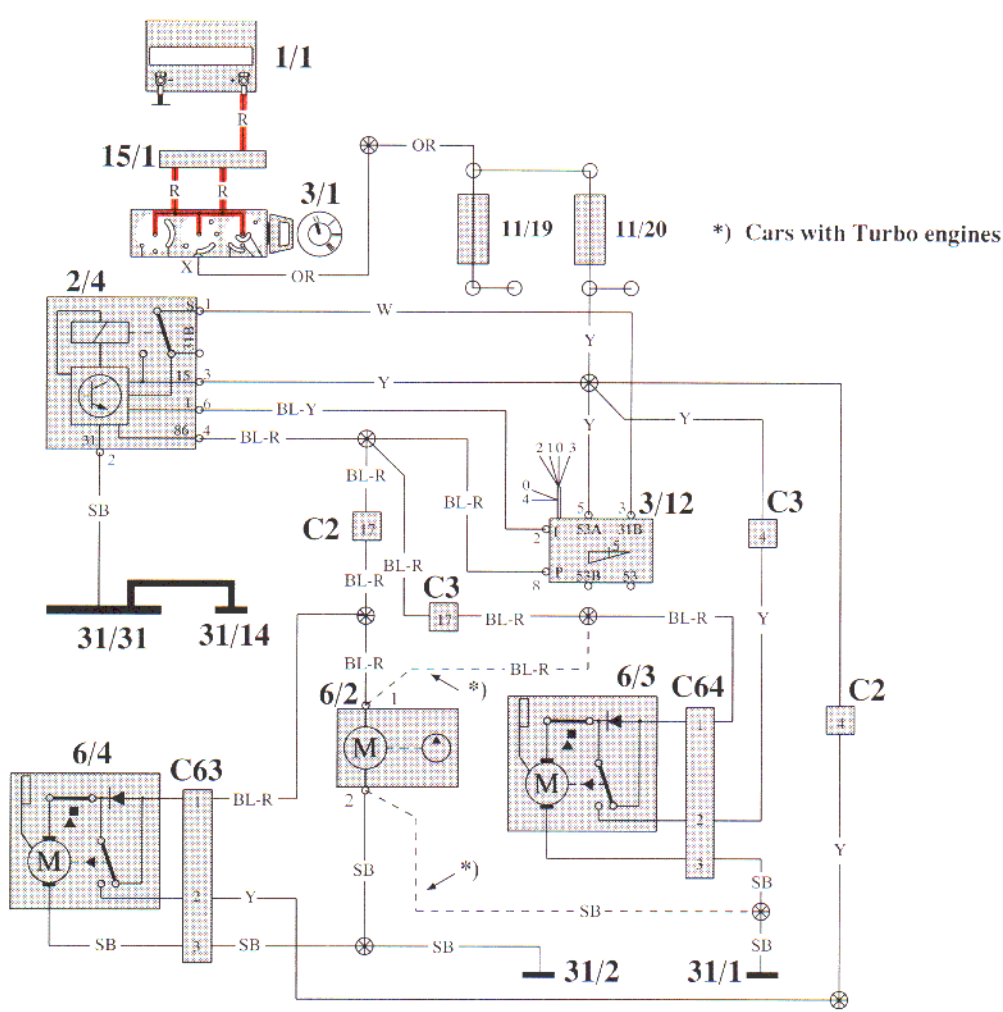
Washer with a few wiper strokes

Intermittent wiping

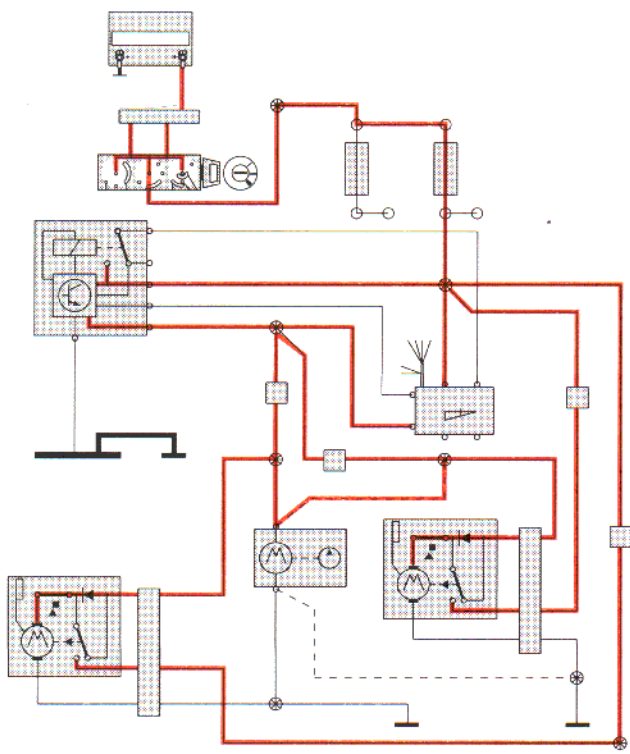
Wiper motor in parking cycle



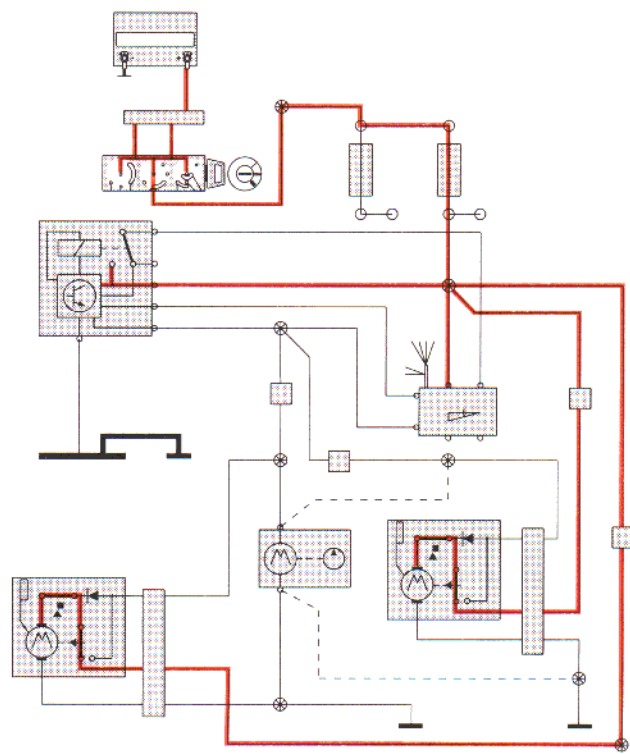
Headlight wash/wipe



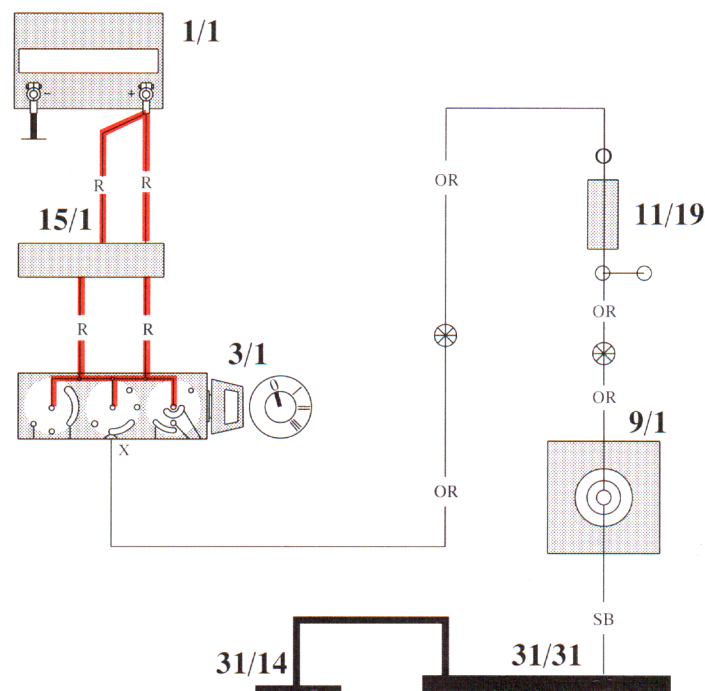
Wiper and washer ON



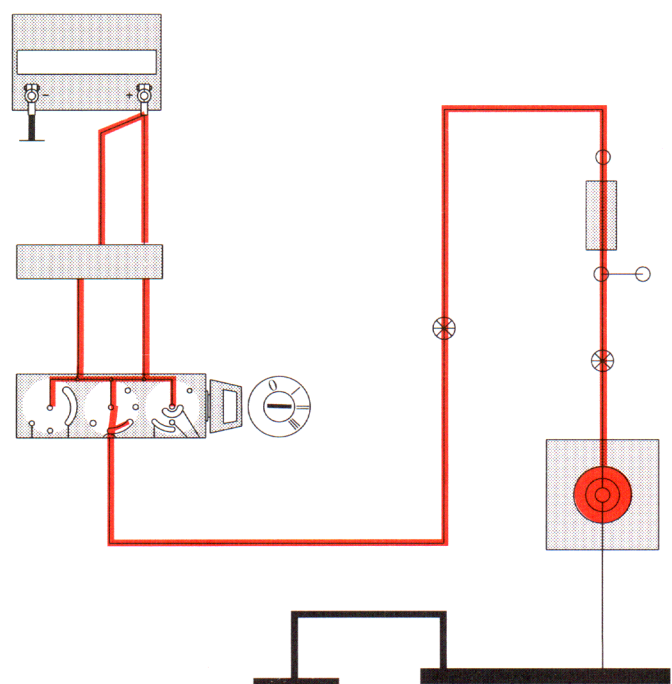
Parking cycle



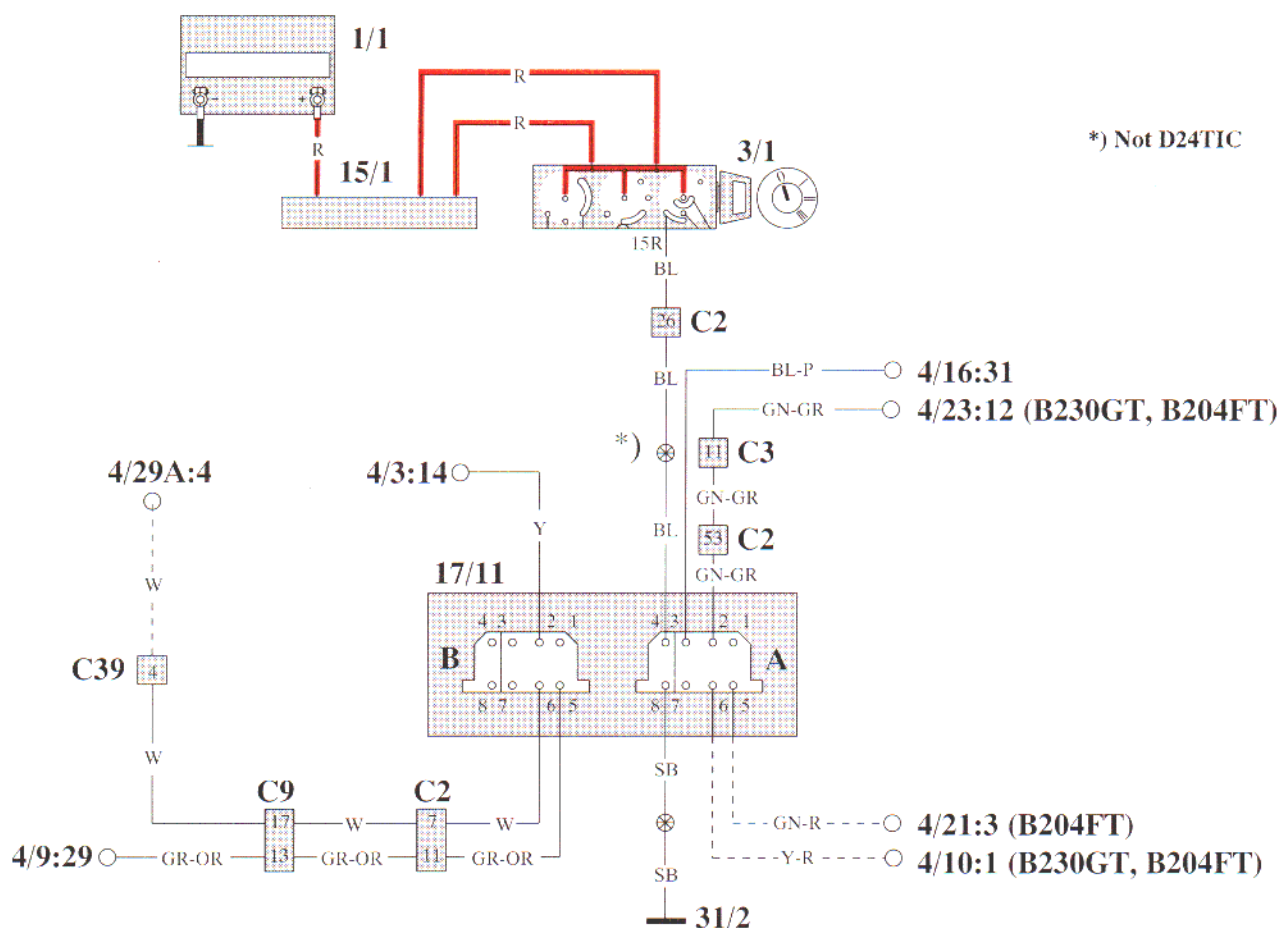
Cigar lighter



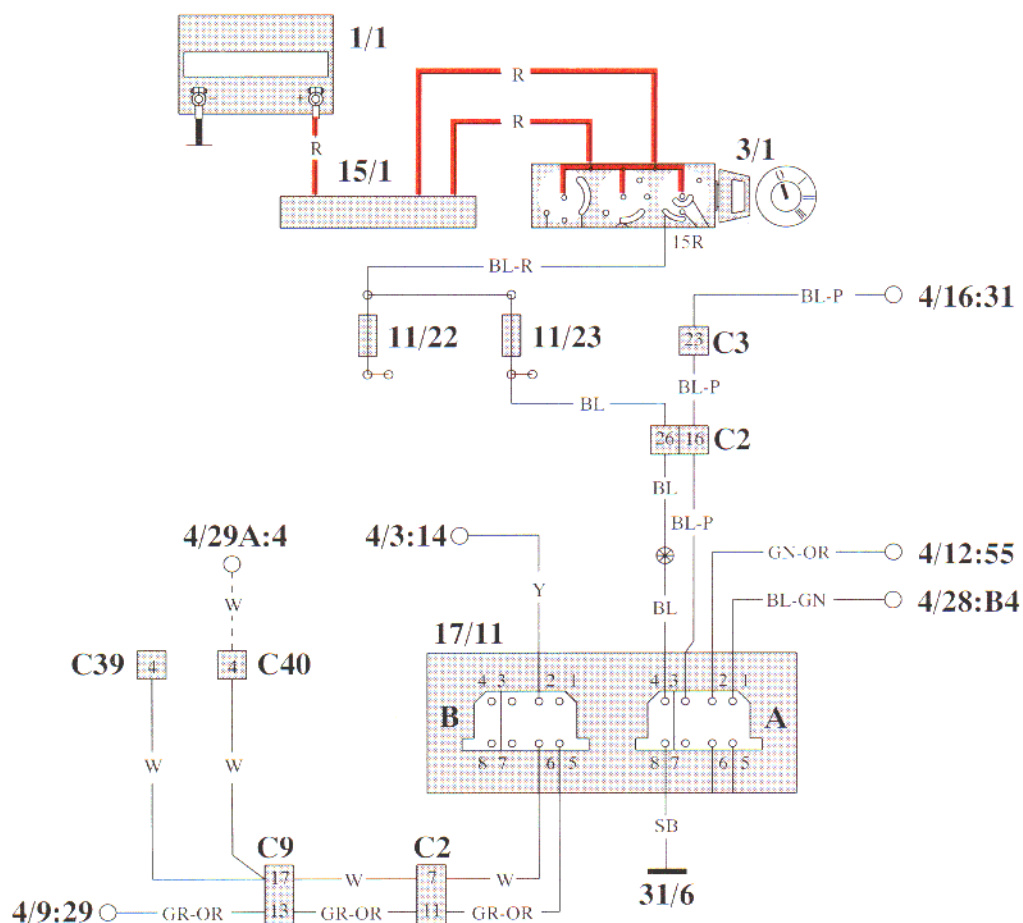
Cigar lighter pushed IN



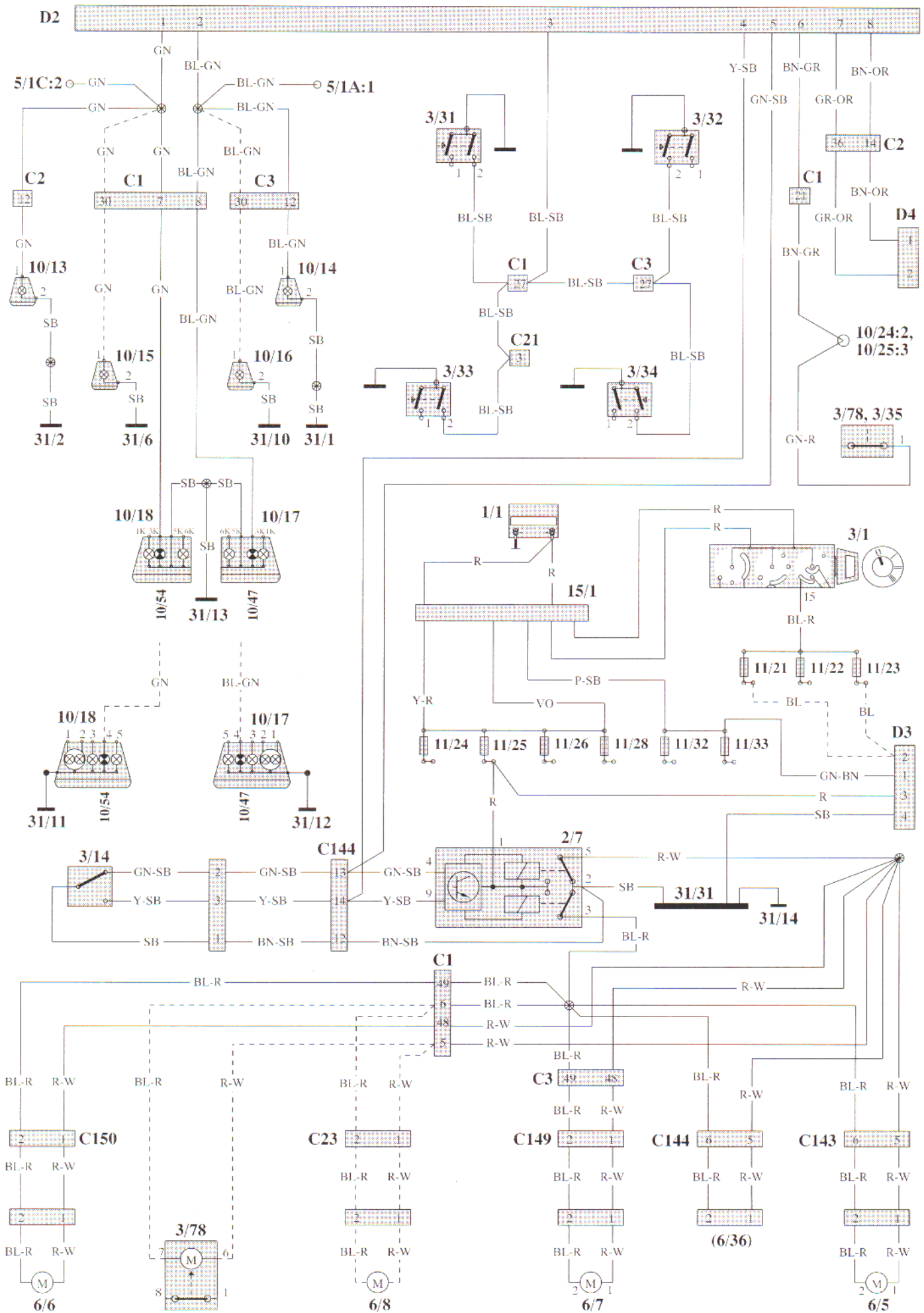
On-board diagnosis (OBD) B230GT, B204FT and D24TIC



On-board diagnosis (OBD) B6304F/G

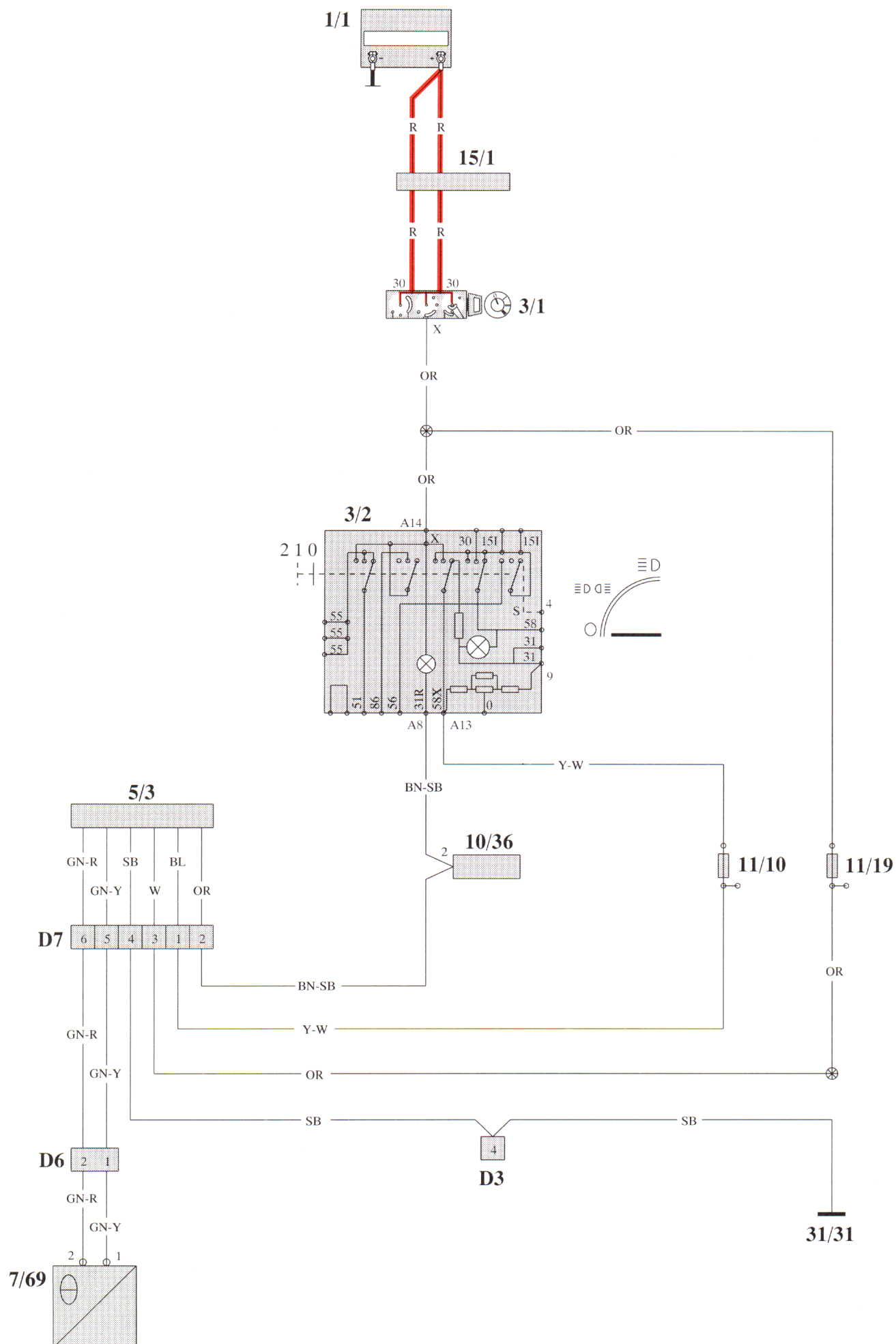


Pre-routed wiring for anti-theft alarm

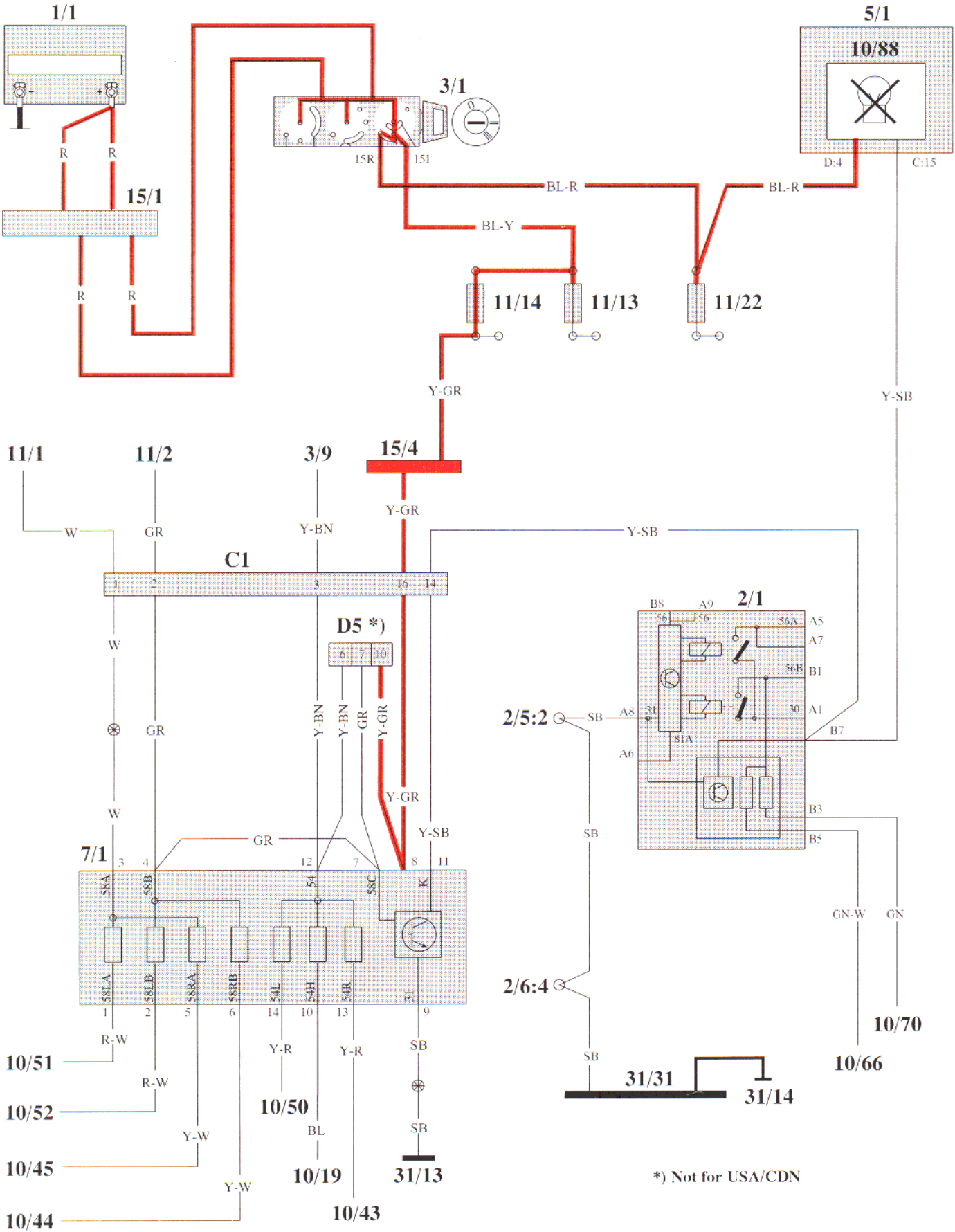


[illegible]

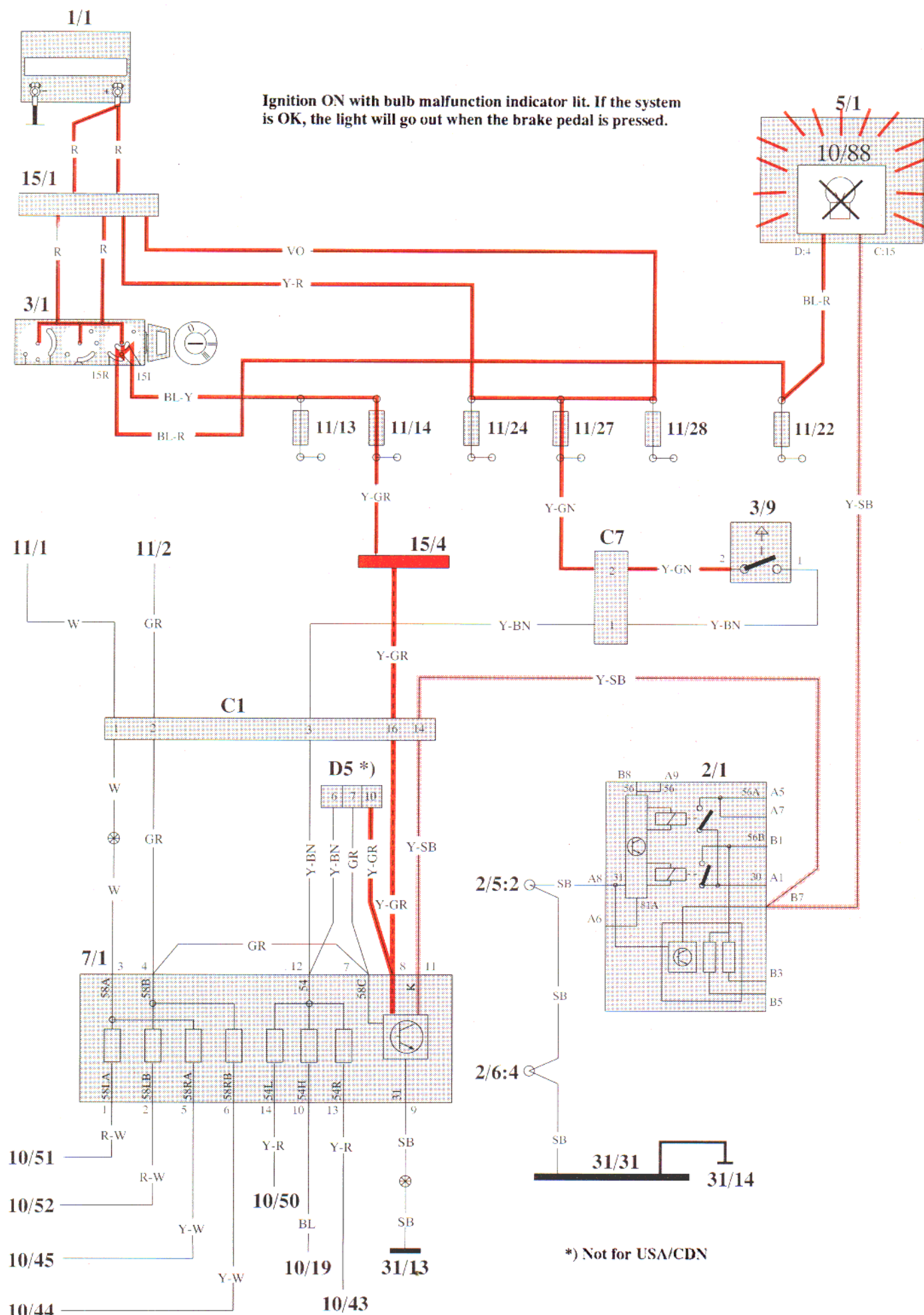
Ambient temperature gauge



Bulb malfunction indicator

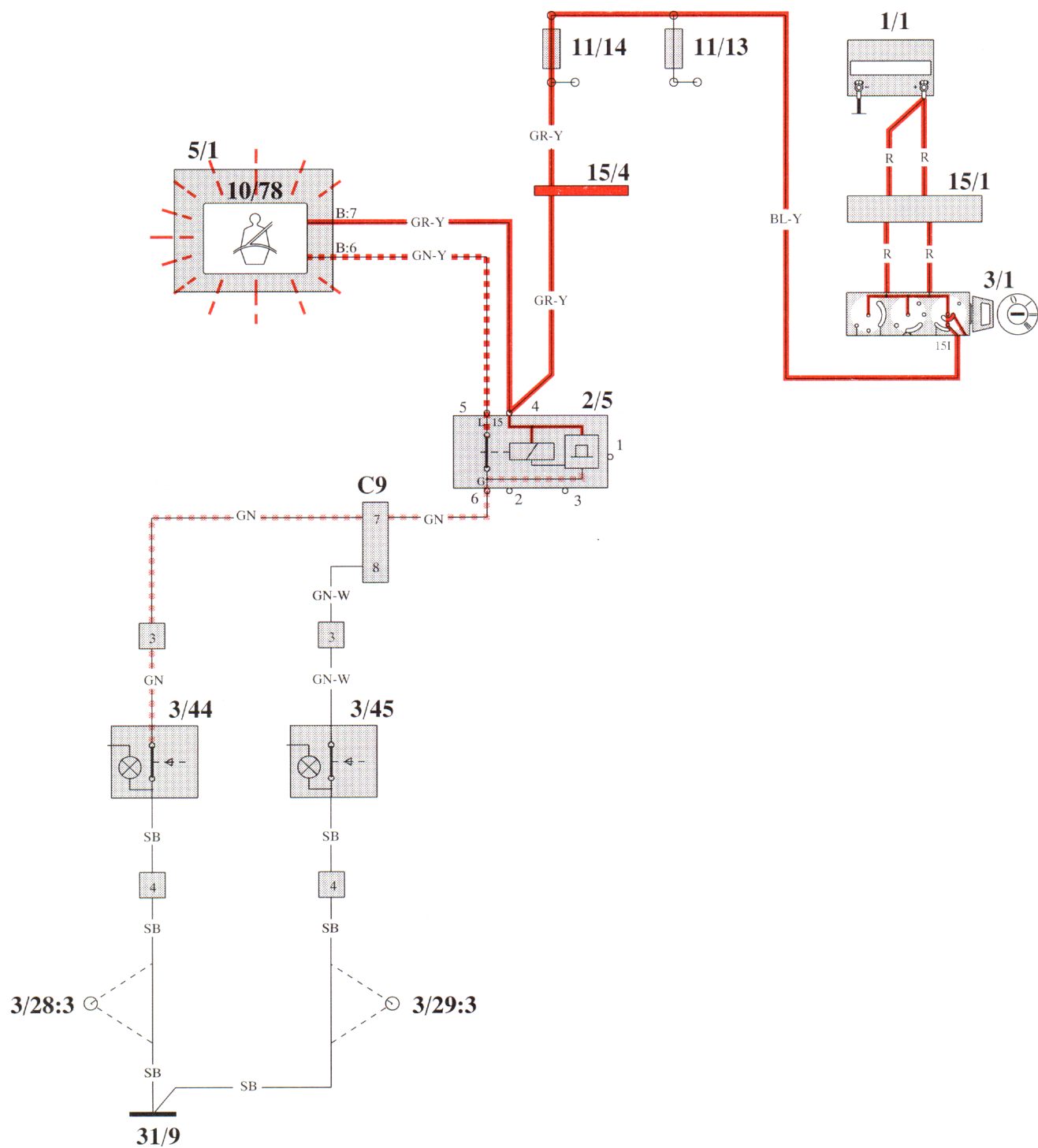


Bulb malfunction indicator with brake monitor



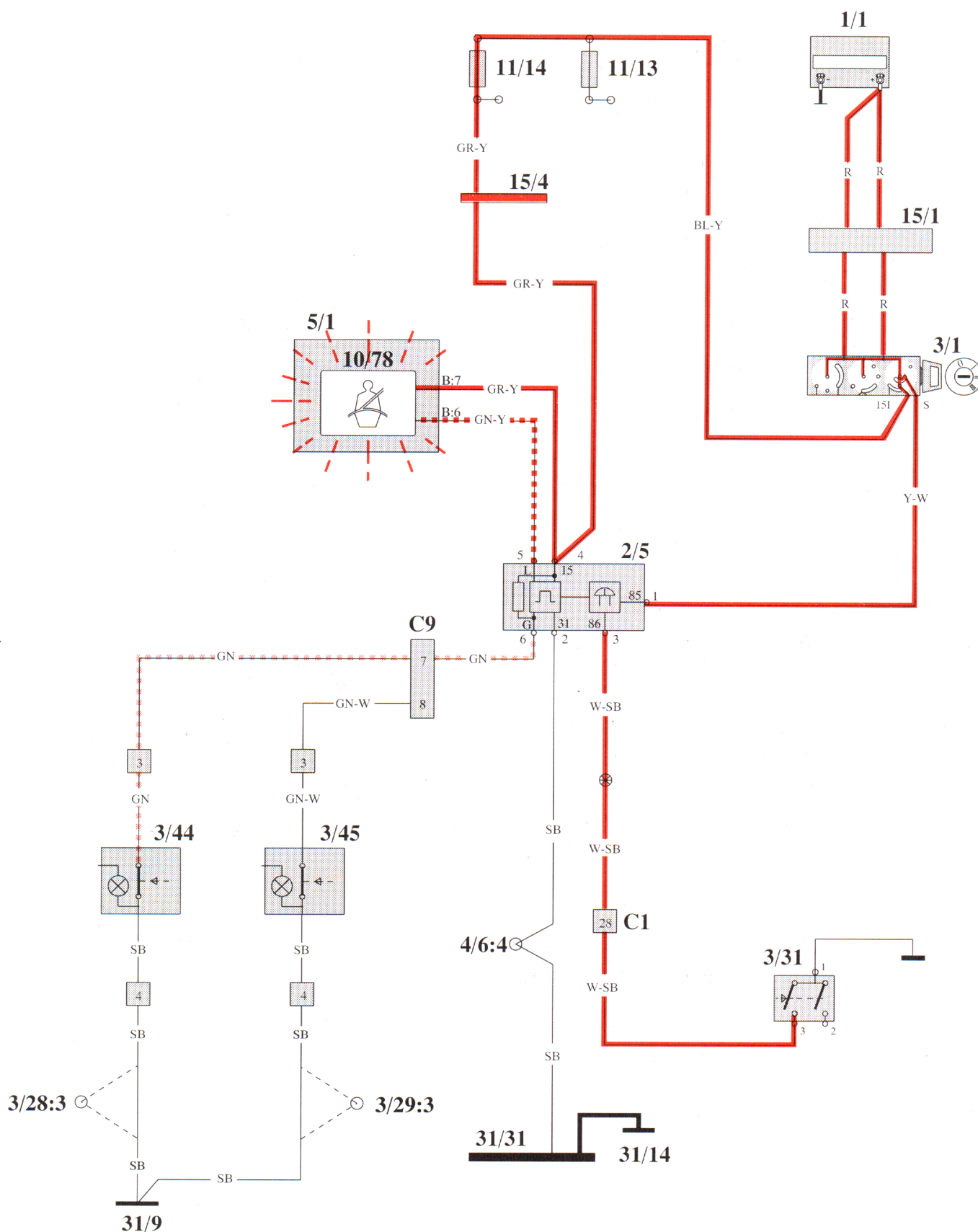
Seat belt reminder

Ignition ON.
All seat belts unfastened.

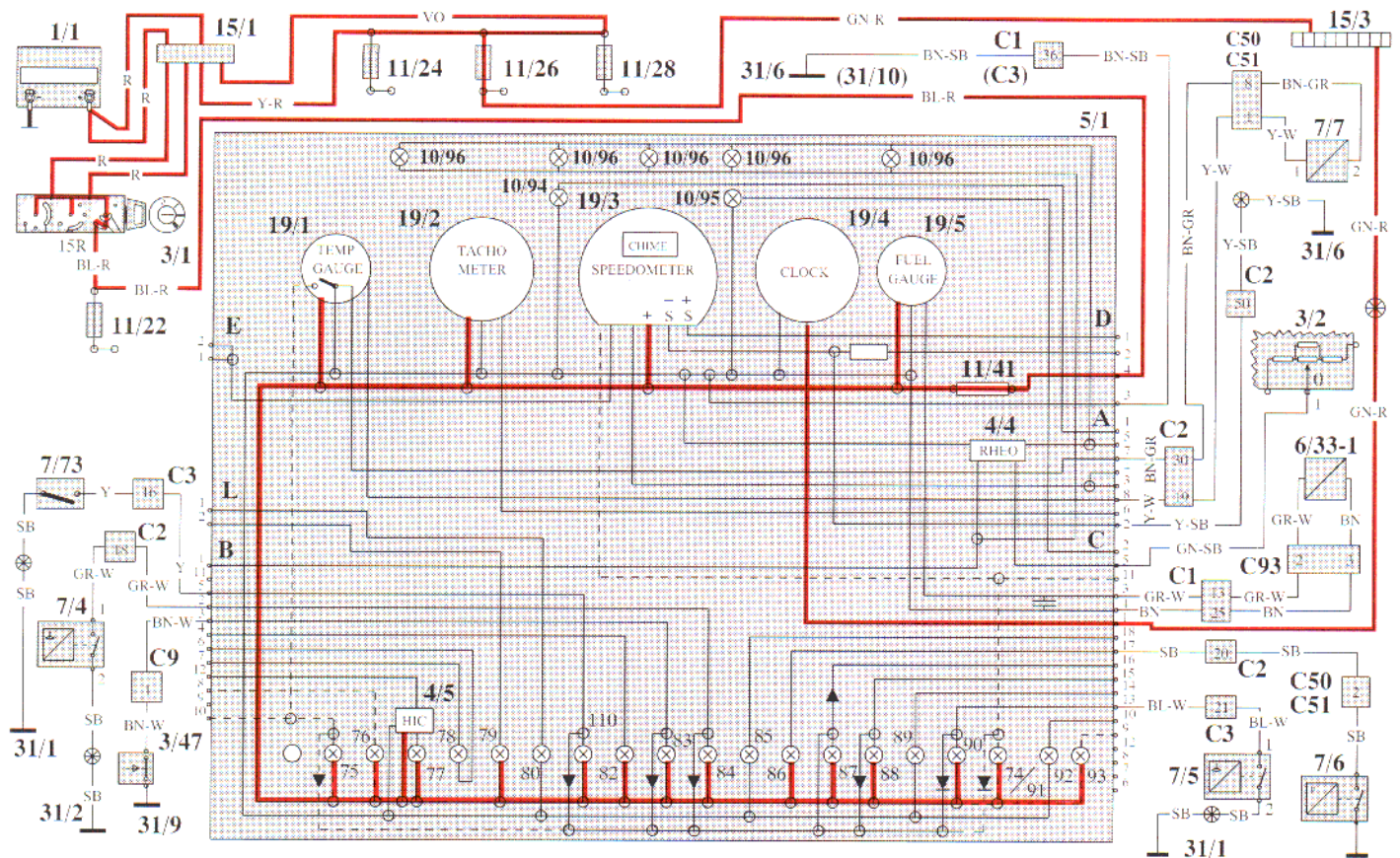


Seat belt reminder with ignition key warning, USA, Canada and Korea

Ignition ON.
All seat belts unfastened.



Combined instrument



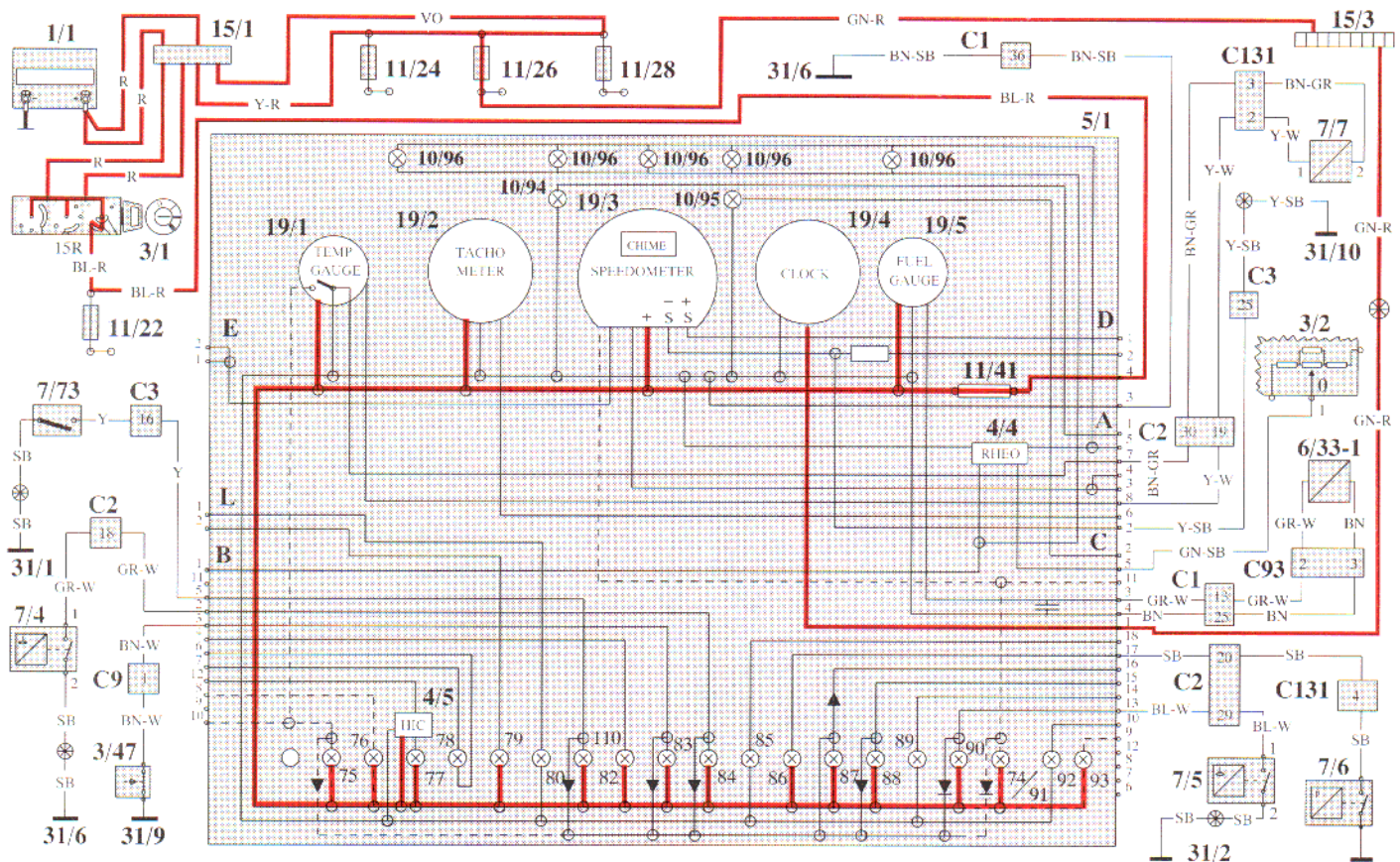
Instrument panel lamps

10/74	Warning lamp, exhaust gas temperature	10/82	Warning lamp, ABS	10/90	Warning lamp, washer fluid level
10/75	Warning lamp, turbo	10/83	Warning lamp, parking brake	10/91	Service reminder indicator (SRI)
10/76	Warning lamp, diesel preheat	10/84	Warning lamp, brake warning	10/92	Warning lamp, trailer
10/77	Warning lamp, SRS	10/85	Warning lamp, high beam	10/93	Warning lamp, malfunction indicator lamp (MIL)
10/78	Warning lamp, seat belts	10/86	Warning lamp, oil pressure	10/94	Warning lamp, right turn signal
10/79	Warning lamp, overdrive, automatic	10/87	Warning lamp, charging	10/95	Warning lamp, left turn signal
10/80	Warning lamp, overdrive, manual	10/88	Warning lamp, bulb malfunction indicator	10/96	Instrument panel lighting
		10/89	Warning lamp, rear foglight	10/110	Warning lamp, coolant level

Connectors at instruments

A 8-pin connector (8)	D 4-pin connector (3)	1/1	Battery
1 Right turn signal (BL-GN)	1 Speedometer sensor (GN-W)	3/1	Ignition lock
2 Reference ground, ground connector A-post (Y-SB)	2 -	3/2	Light switch
3 -	3 Ground connector, left A-post (BN-SB)	3/47	Parking brake switch
4 -	4 Supply 15+ (BL-R)	4/4	Rheostat
5 Control and instrument lighting, input (Y-W)	B 12-pin connector (12)	4/5	Safety circuit SRS
6 Ignition coil output 1 or generator output W (R-W)	1 Control and instrument panel lighting, external connector to rheostat (BN-SB)	5/1	Combined instrument
7 Engine coolant temperature (ECT) sensor (BN-GR)	2 Brake fluid level sensor (GR-W)	5/3	Ambient temperature sensor
8 Engine coolant temperature (ECT) sensor (Y-W)	3 Parking brake switch (BN-W)	6/33-1	Fuel level sensor
C 18-pin connector anslutning (18)	4 ABS (GN)	7/4	Brake fluid level sensor
1 Supply 30+ (GN-R)	5 Engine coolant (EC) level sensor (Y)	7/5	Washer fluid level sensor
2 Left turn signal (GN)	6 Seat belt reminder (GN-Y)	7/6	Oil pressure sensor
3 Fuel level sensor (GR-W)	7 Seat belt reminder (GR-Y)	7/7	Engine coolant temperature (ECT) sensor
4 Fuel level sensor (BN)	8 Relay, glowplug pos. A:1 (OR)	7/73	Engine coolant (EC) level sensor (B204FT, D24TIC)
5 Rheostat and clock adjustment pos. A:1 (GN-BN)	9 -	11/22, 24, 26, 28, 41	Fuses
6 -	10 Pressure sensor, turbo diesel (Y-R)	15/1	Positive terminal
7 -	11 -	15/3	30-rail in fusebox
8 -	12 Collision sensor, SRS pos. 20 (OR-SB)	19/1	Temperature gauge
9 Control module, fuel system pos. 22, Control module, ignition system pos. 3 (BL-P)	Collision sensor, SRS pos. 1 (OR-SB) USA/CDN	19/2	Tachometer
10 -	E Digital output, cruise control (GN-OR)	19/3	Speedometer
11 Relay, temperature warning (W)	Control module, ECC pos.6 (GN-OR)	19/4	Clock
12 -	Relay, overdrive AW70-71 pos. 8 (GN-OR)	19/5	Fuel gauge
13 Washer fluid level sensor (BL-W)	Control module, fuel system pos. 34 (GN-OR)	31/1	Ground connector, right front wing
14 Switch, foglight pos. 5 (VO-W)	I 2-pin connector	31/2	Ground connector left front wing
15 Bulb malfunction indicator (Y-SB)	1 Relay, overdrive pos. 6 (R-W)	31/6	Ground connector, left A-post
16 Generator output D+ (R)	2 Relay overdrive pos. 5 (R-SB)	31/9	Ground connector at parking brake
17 Oil pressure sensor (SB)		C1	Connector at left A-post
18 High beam (R-W)		C2	Connector left A-post
		C3	Connector right A-post
		C9	Connector at relay unit
		C50	Connector at left suspension tower (D24TIC)
		C51	Connector at left suspension tower (B204FT, B230GT)
		C93	Connector at left rear wheel housing
		D7	Connector, ambient temperature sensor, 6-pin

Combined instrument, B6304F/G



Instrument panel lamps

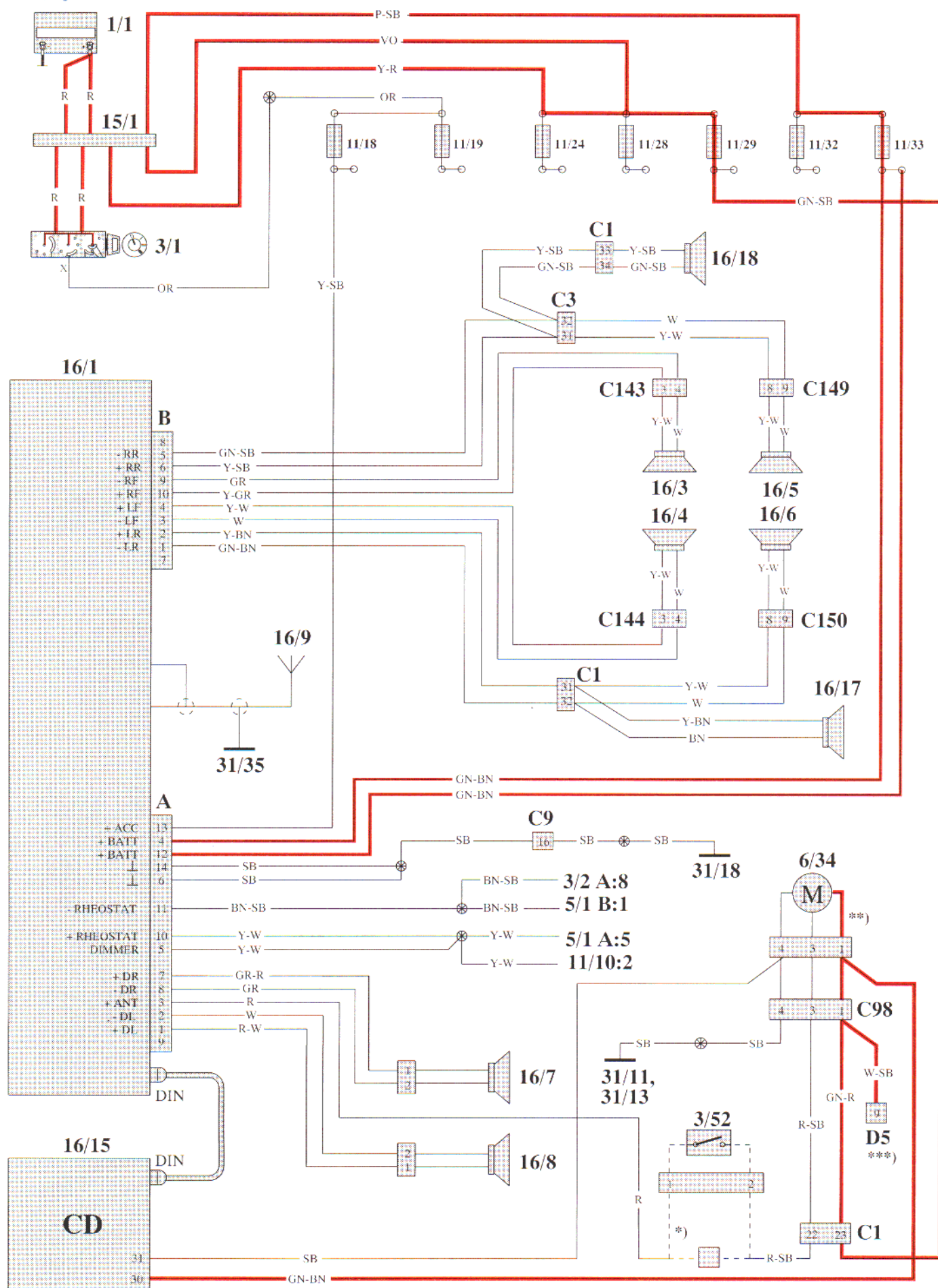
10/74	Warning lamp, exhaust gas temperature	10/82	Warning lamp, ABS	10/90	Warning lamp, washer fluid level
10/75	-	10/83	Warning lamp, parking brake	10/91	Service reminder indicator (SRI)
10/76	-	10/84	Warning lamp, brake warning	10/92	Warning lamp, trailer
10/77	Warning lamp, SRS	10/85	Warning lamp, high beam	10/93	Warning lamp, malfunction indicator lamp (MIL)
10/78	Warning lamp, seat belts	10/86	Warning lamp, oil pressure	10/94	Warning lamp, right turn signal
10/79	-	10/87	Warning lamp, charging	10/95	Warning lamp, left turn signal
10/80	-	10/88	Warning lamp, bulb malfunction indicator	10/96	Instrument panel lighting
		10/89	Warning lamp, rear foglight	10/110	Warning lamp, engine coolant

Connectors at instruments

A 8-pin connector (8)	D 4-pin connector (3)	1/1	Battery
1 Right turn signal (BL-GN)	1 Speedometer sensor (GN-W)	3/1	Ignition lock
2 Reference ground, ground connector A-post (Y-SB)	2 -	3/2	Light switch
3 Control module, AW30-43 pos. B:8 (GN-SB)	3 Ground connector, left A-post (BN-SB)	3/47	Parking brake switch
4 -	4 Supply 15+ (BL-R)	4/4	Rheostat
5 Control and instrument lighting, input (Y-W)		4/5	Safety circuit SRS
6 Motronic control module pos. 6 (R-W)	B 12-pin connector (12)	5/1	Combined instrument
7 Engine coolant temperature (ECT) sensor (BN-GR)	1 Control and instrument panel lighting, external connector to rheostat (BN-SB)	5/3	Ambient temperature sensor
8 Engine coolant temperature (ECT) sensor (Y-W)	2 Brake fluid level sensor (GR-W)	6/33-1	Fuel level sensor
	3 Parking brake switch (BN-W)	7/4	Brake fluid level sensor
C 18-pin connector anslutning (18)	4 ABS (GN)	7/5	Washer fluid level sensor
1 Supply 30+ (GN-R)	5 Engine coolant (EC) level sensor (Y)	7/6	Oil pressure sensor
2 Left turn signal (GN)	6 Seat belt reminder (GN-Y)	7/7	Engine coolant temperature (ECT) sensor
3 Fuel level sensor (GR-W)	7 Seat belt reminder (GR-Y)	7/73	Engine coolant (EC) level sensor
4 Fuel level sensor (BN)	8 -	11/22, 24, 26, 28, 41	Fuses
5 Rheostat adjustment pos. A:1 (GN-BN)	9 -	15/1	Positive terminal
6 -	10 -	15/3	30-rail in fusebox
7 -	11 -	19/1	Temperature gauge
8 -	12 Collision sensor, SRS pos. 20 (OR-SB)	19/2	Tachometer
9 Control module, Motronic pos. 15 (OR)	Collision sensor, SRS pos. 1 USA/CDN (OR-SB)	19/3	Speedometer
10 -		19/4	Clock
11 Relay, temperature warning (W)	E Digital output, cruise control (GN-OR)	19/5	Fuel gauge
12 -	Control module, ECC pos. 6 (GN-OR)	31/1	Ground connector, right front wing
13 Washer fluid level sensor (BL-W)	Control module, Motronic pos. 9 (GN-OR)	31/2	Ground connector left front wing
14 Switch, foglight pos. 5 (VO-W)		31/6	Ground connector, left A-post
15 Bulb malfunction indicator front pos. B:7, rear pos. 11 (Y-SB)	L 2-pin connector	31/9	Ground connector at parking brake
16 Generator output D+ (R)	1 -	C1	Connector at left A-post
17 Oil pressure sensor (SB)	2 Relay, transmission pos. B:2 (GN-W)	C2	Connector left A-post
18 High beam (R-W)		C3	Connector right A-post
		C9	Connector at relay unit
		C61	Connector, 8-pin
		C93	Connector at left rear wheel housing
		C131	Connector at left suspension tower
		D7	Connector, ambient temperature sensor, 6-pin

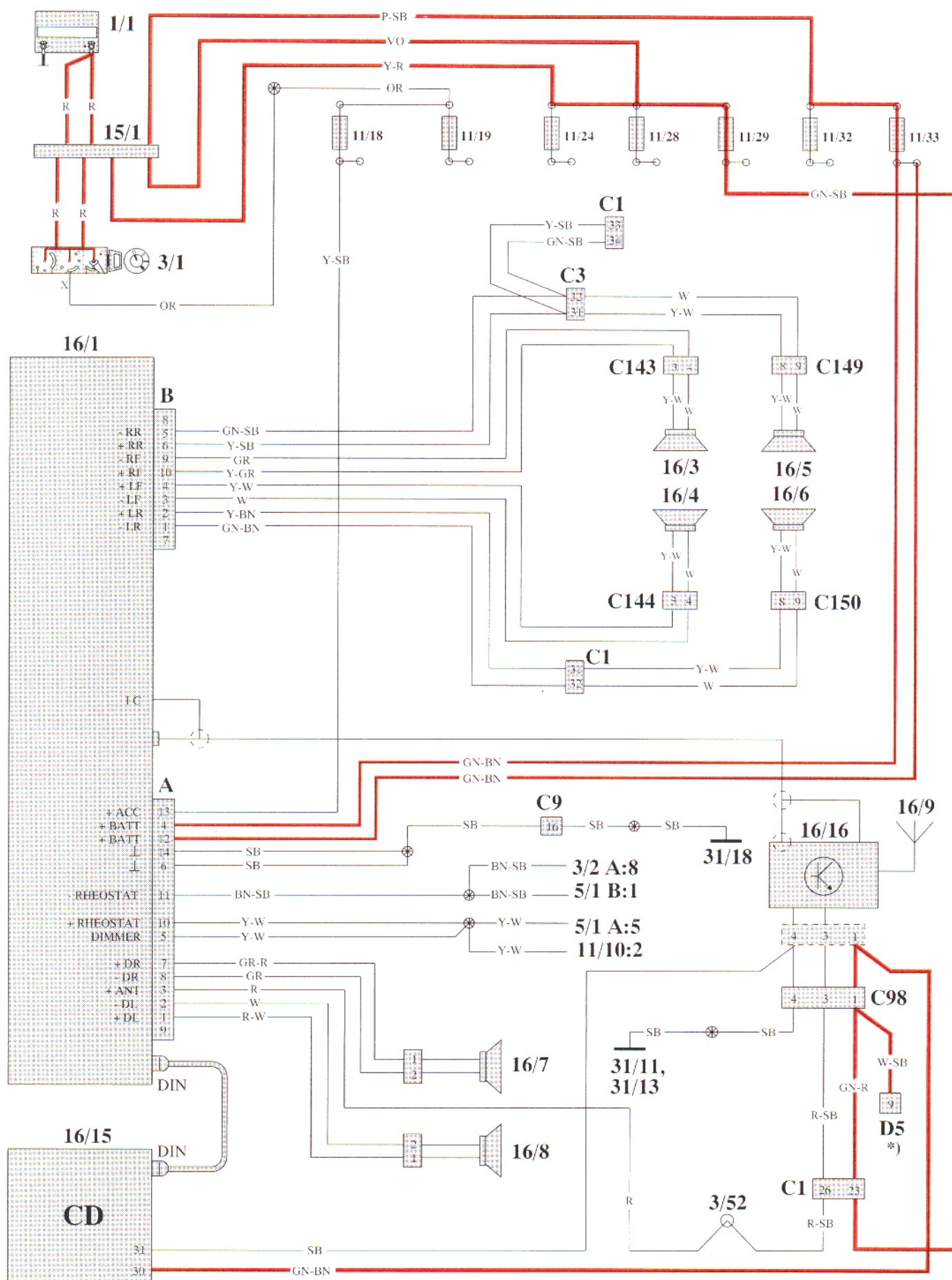
Radio connections, 4-door

- *) Connector in radio compartment, 1-pin
 **) Connector at power antenna, 4-pin (spliced)
 ***) Not for USA/CDN

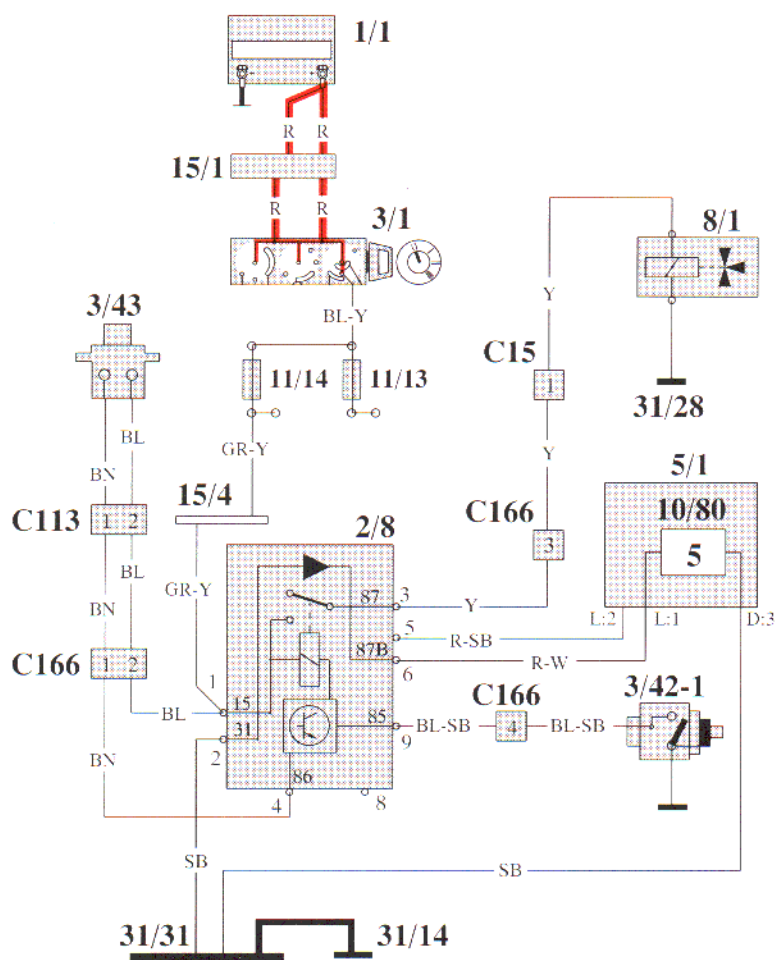


Radio connections, 5-door

*) Not for USA/CDN



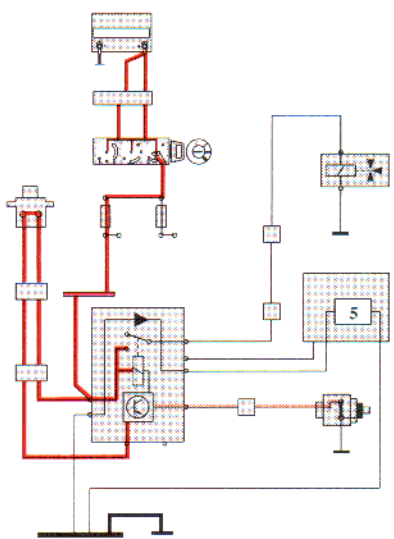
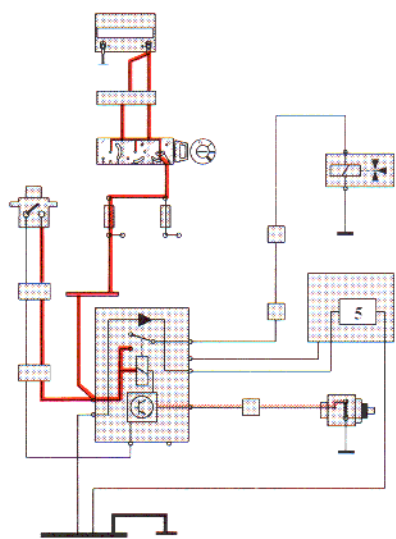
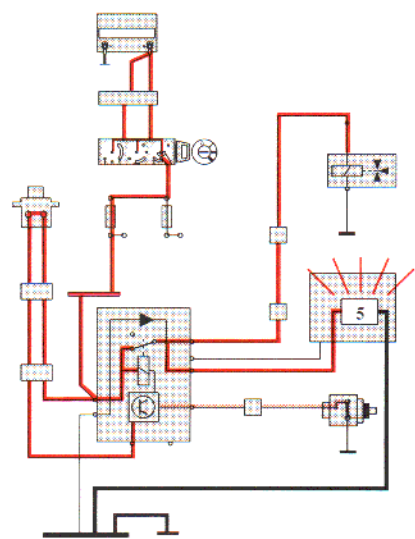
M46 Overdrive



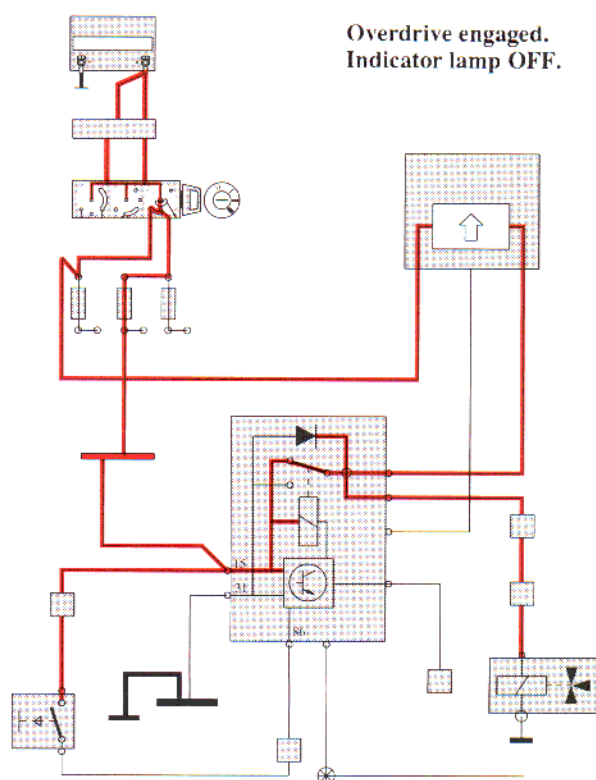
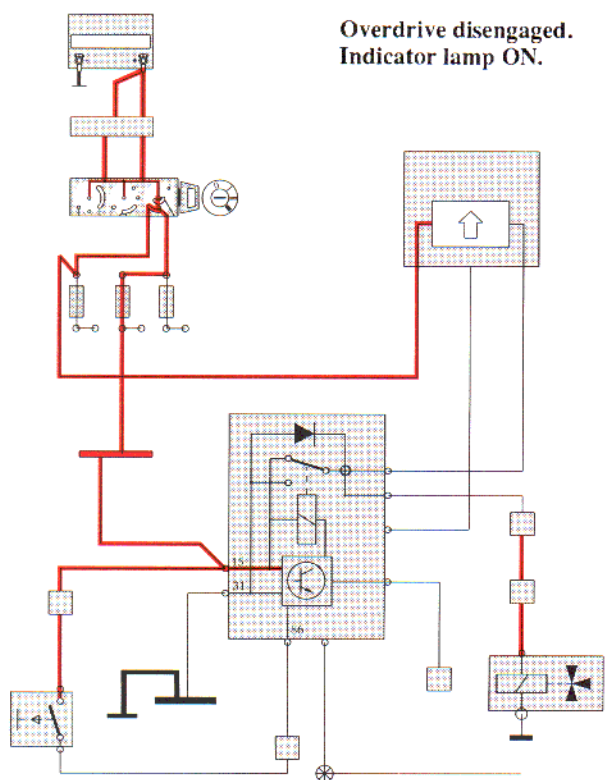
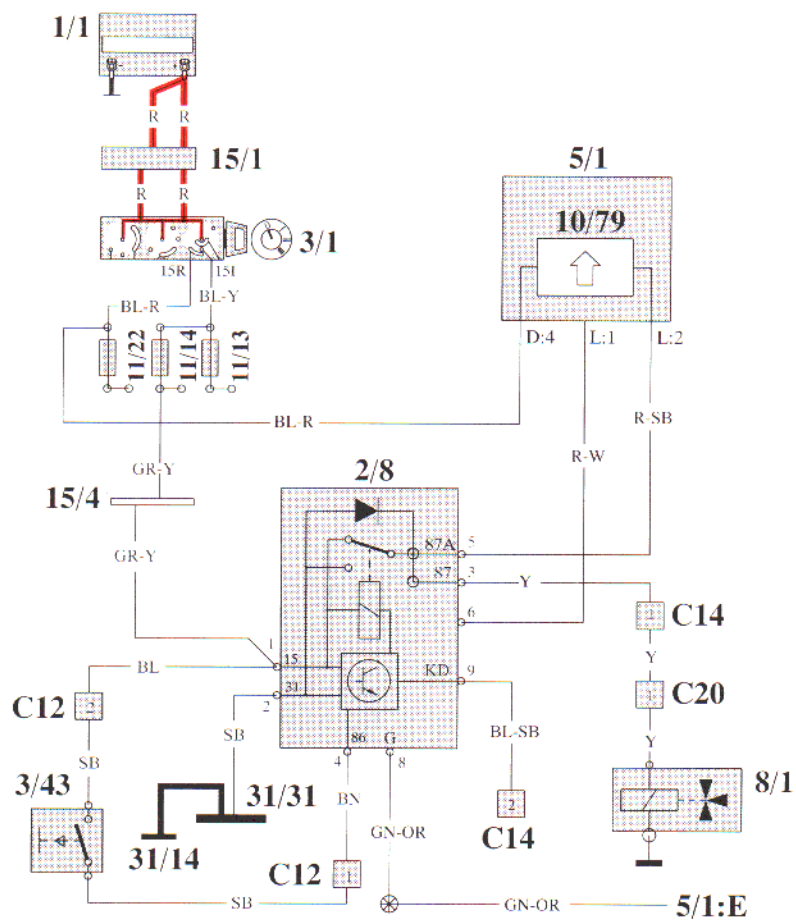
Engaging overdrive,
gear lever in 4th gear.

Downshift from 4th gear,
overdrive disengages
automatically.

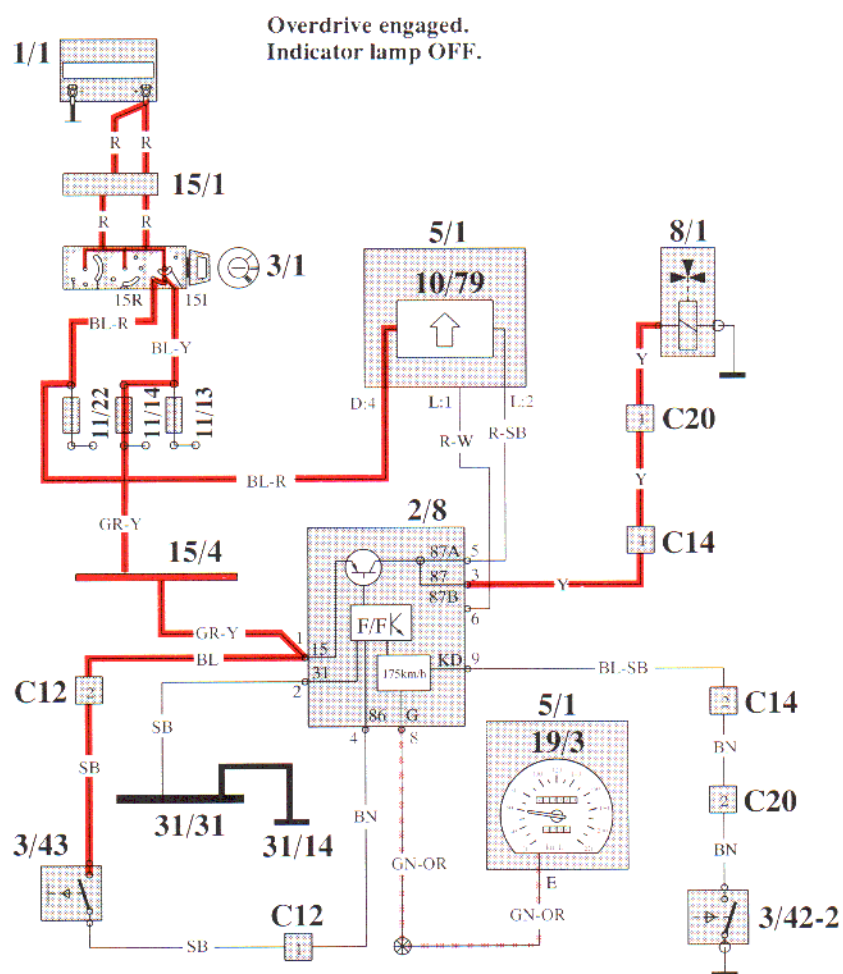
Disengaging overdrive,
gear lever in 4th gear.



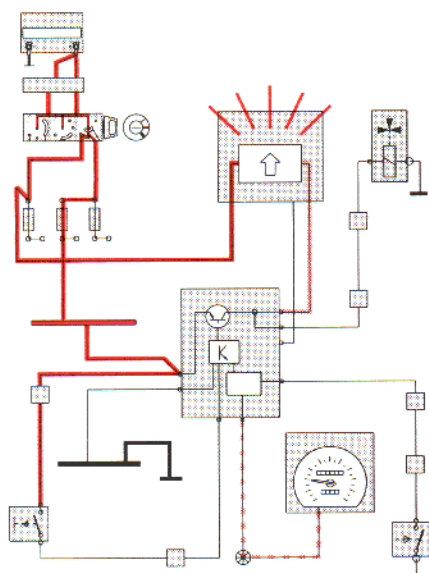
AW70/71 Overdrive



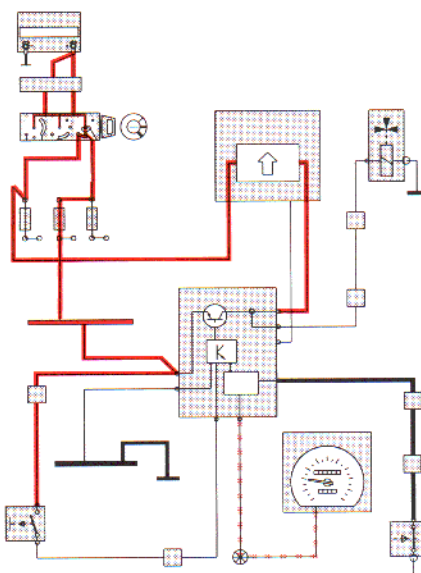
AW71 Overdrive with kickdown inhibitor



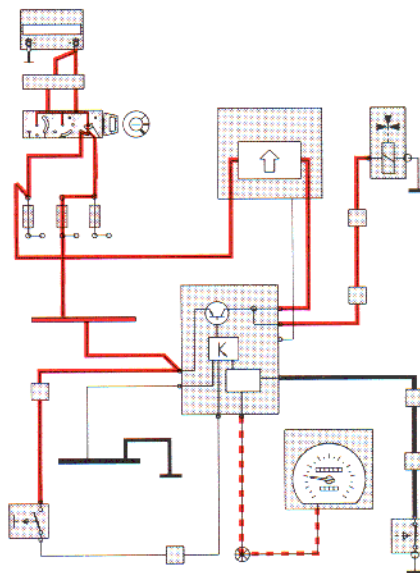
Overdrive disengaged
Indicator lamp ON.



Overdrive engaged.
Accelerator pedal pressed down.
Downshift occurs.

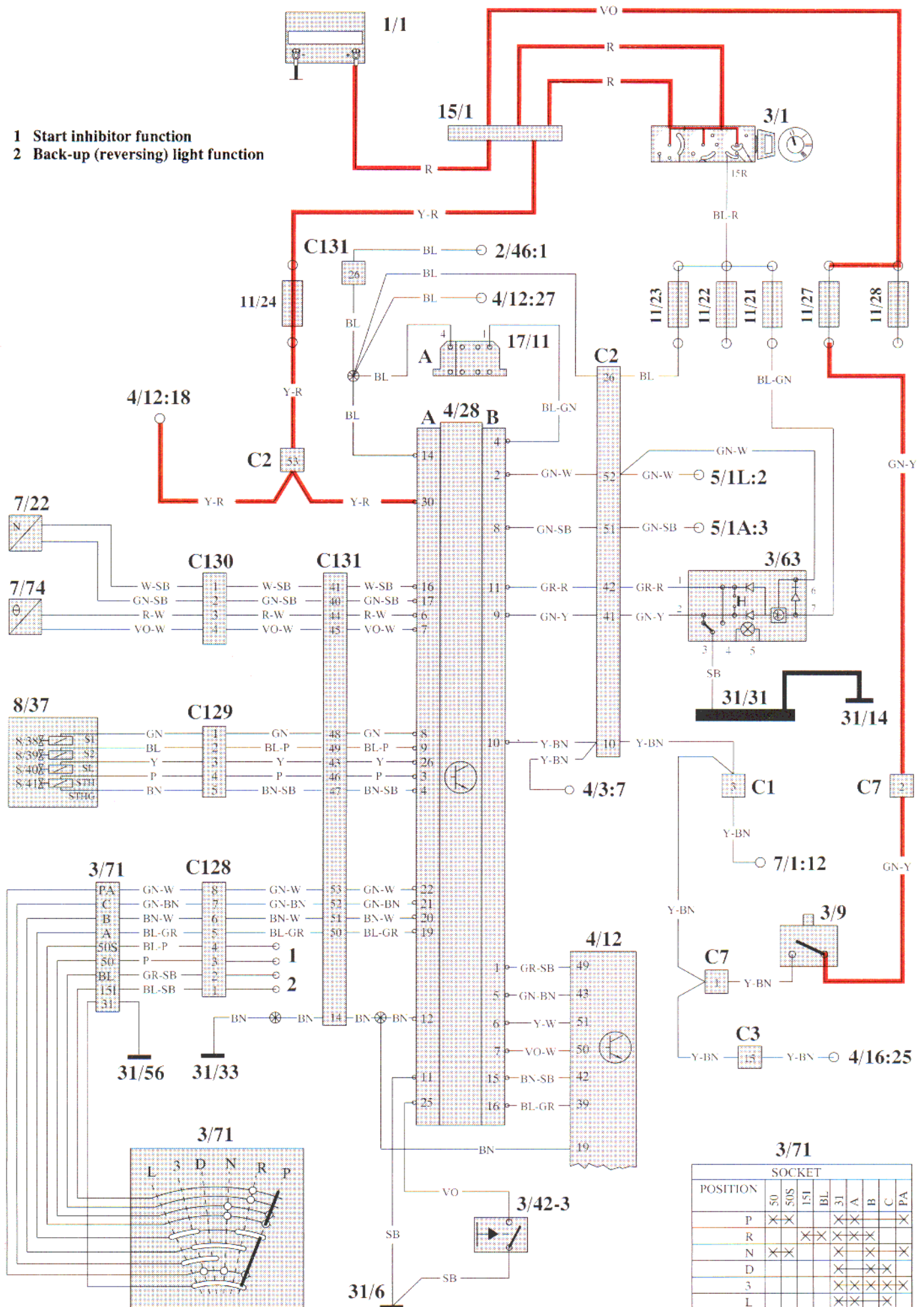


Overdrive engaged.
Accelerator pedal pressed down.
Speed too high for downshift.

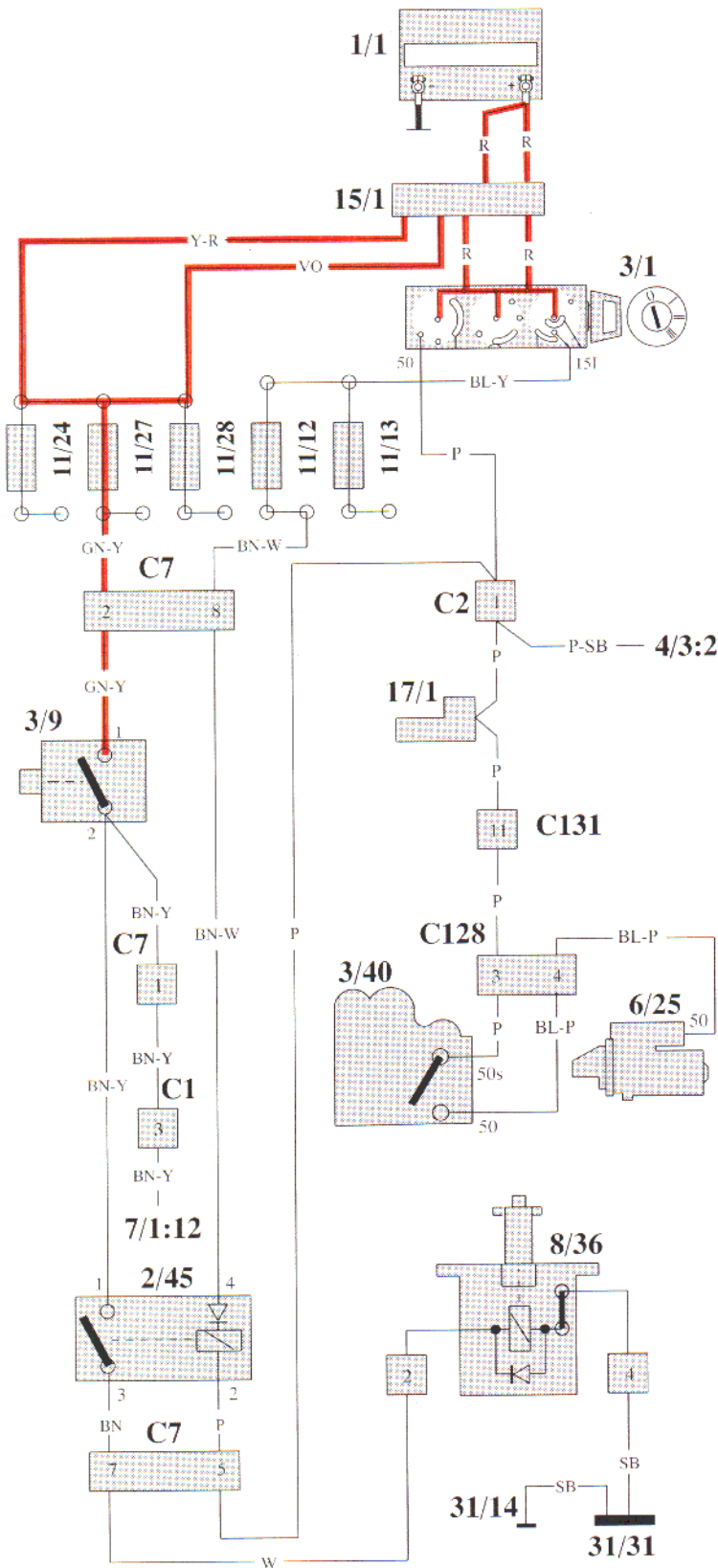


AW30-40/43 Electronically controlled automatic transmission

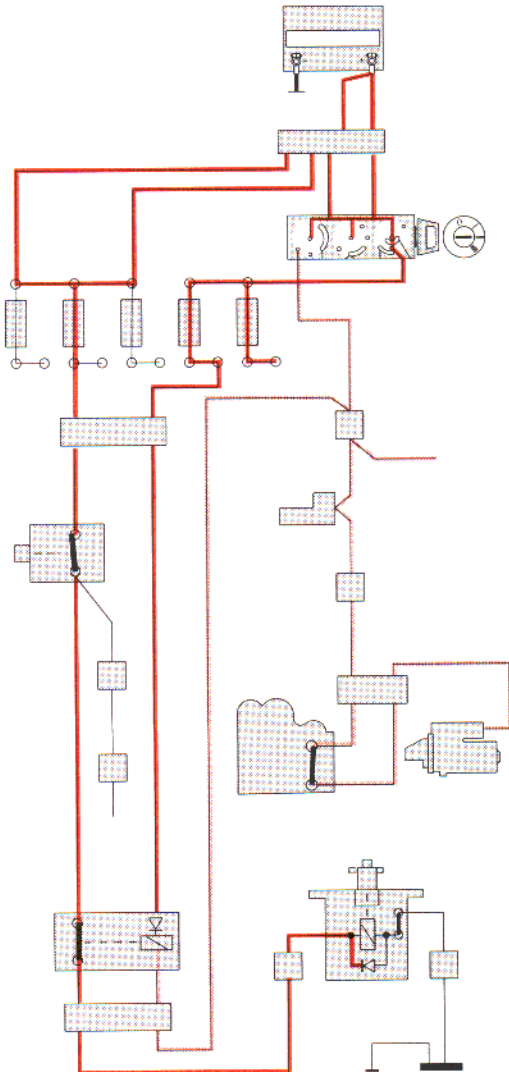
- 1 Start inhibitor function
- 2 Back-up (reversing) light function



P-shift lock, automatic transmission

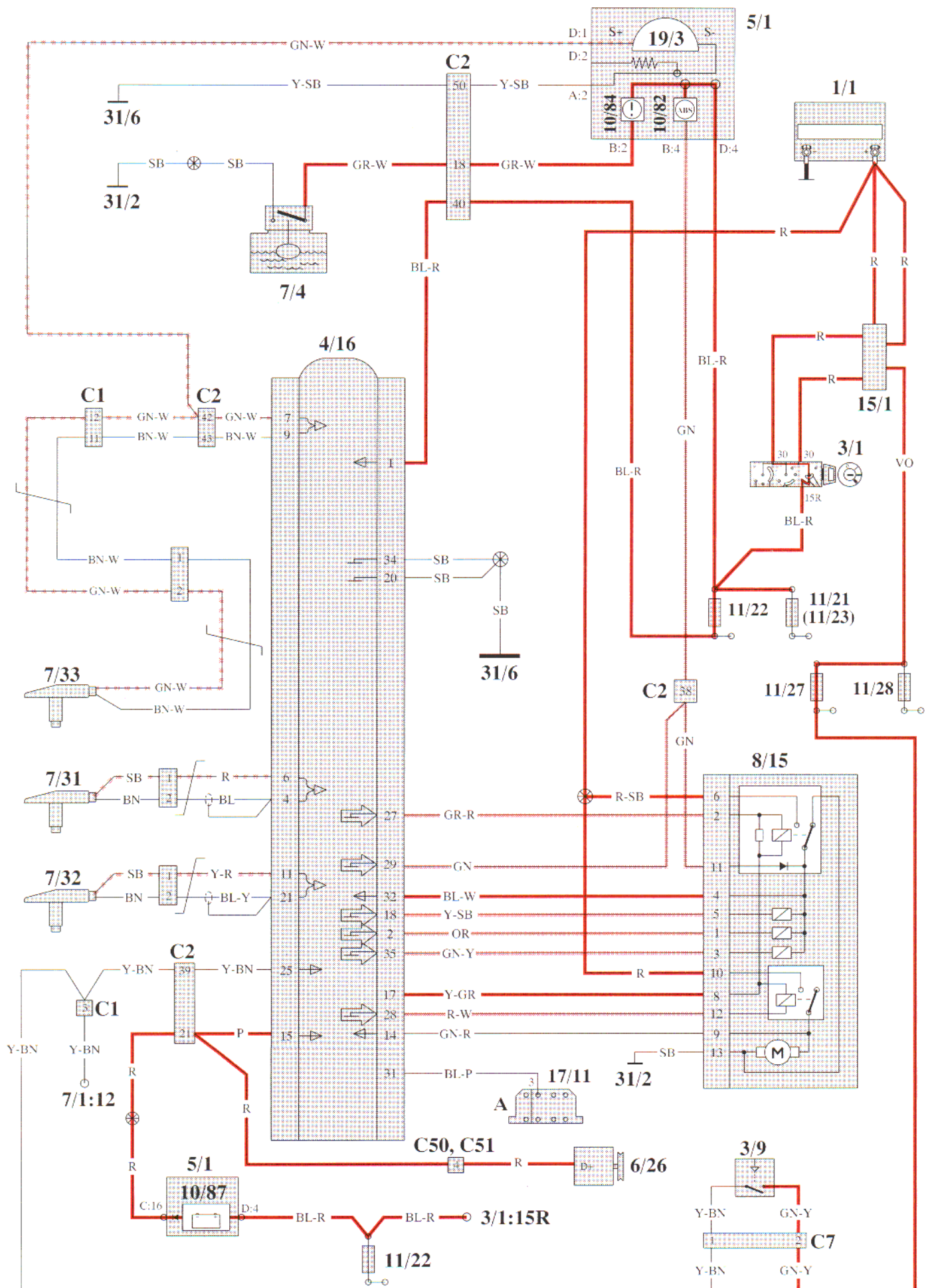


P-shift lock released
(ignition ON and
brake pedal pressed down)



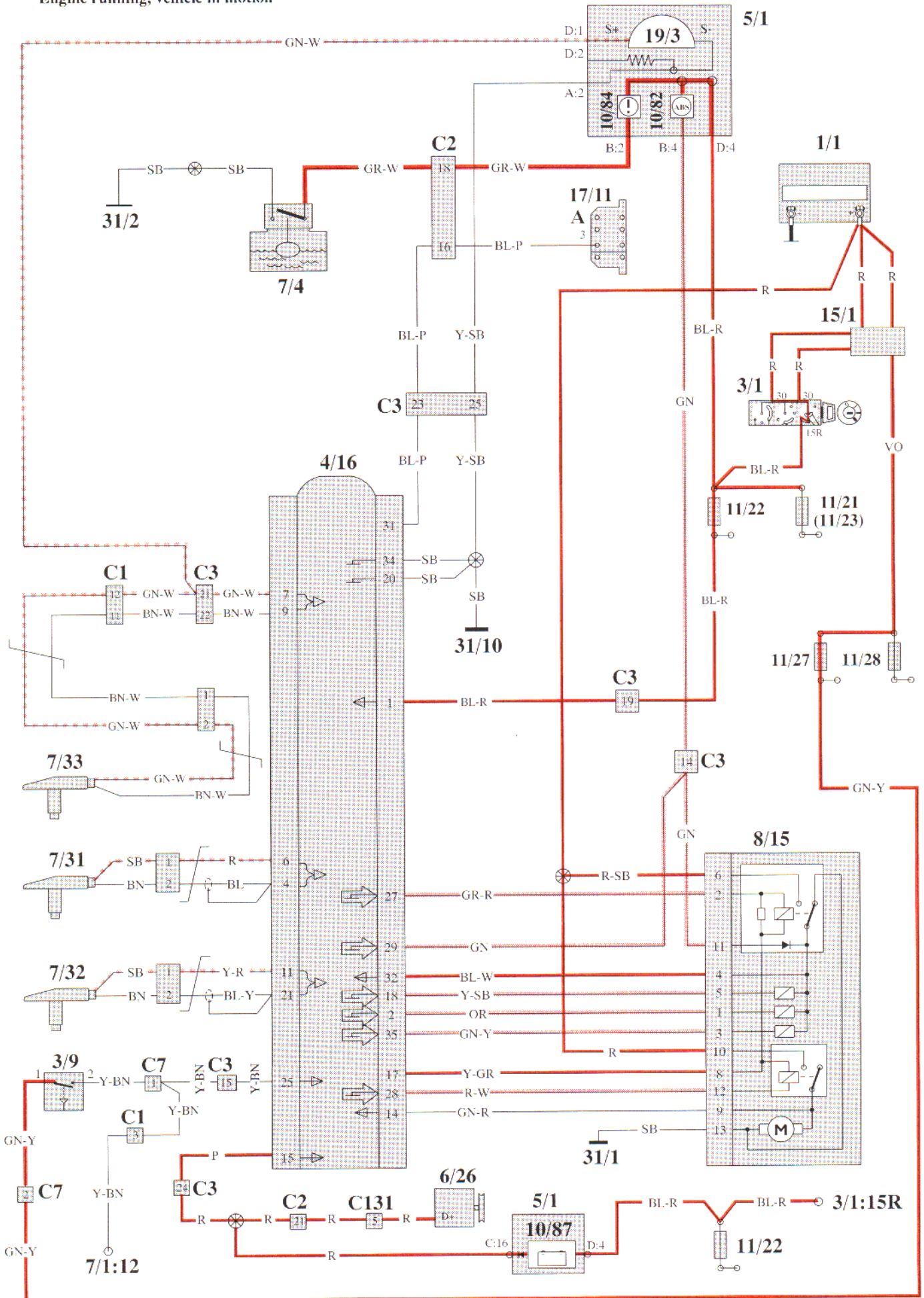
ABS Brake system (B230GT, B204FT and D24TIC)

Engine running, vehicle in motion

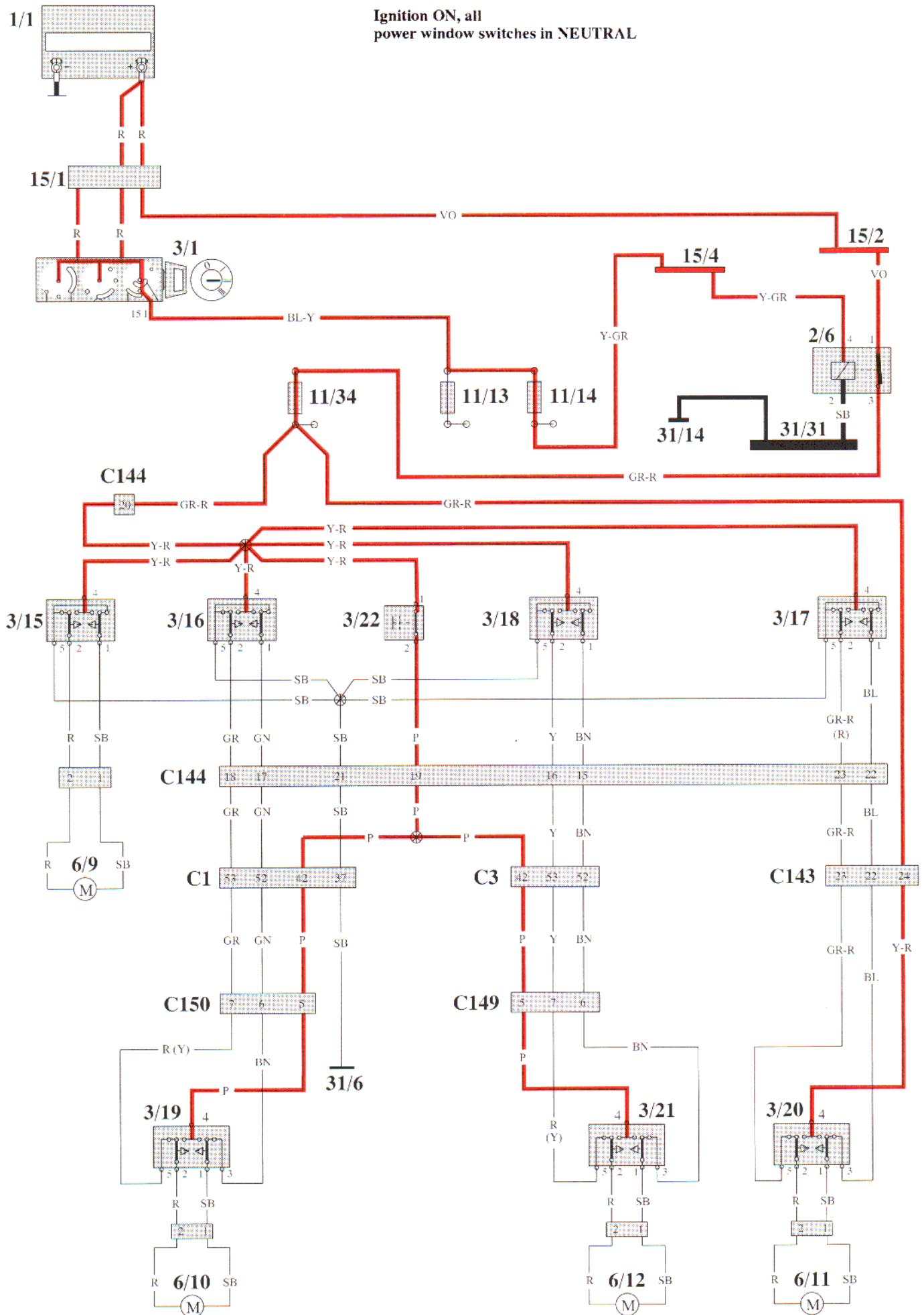


ABS Brake system (B6304F/G)

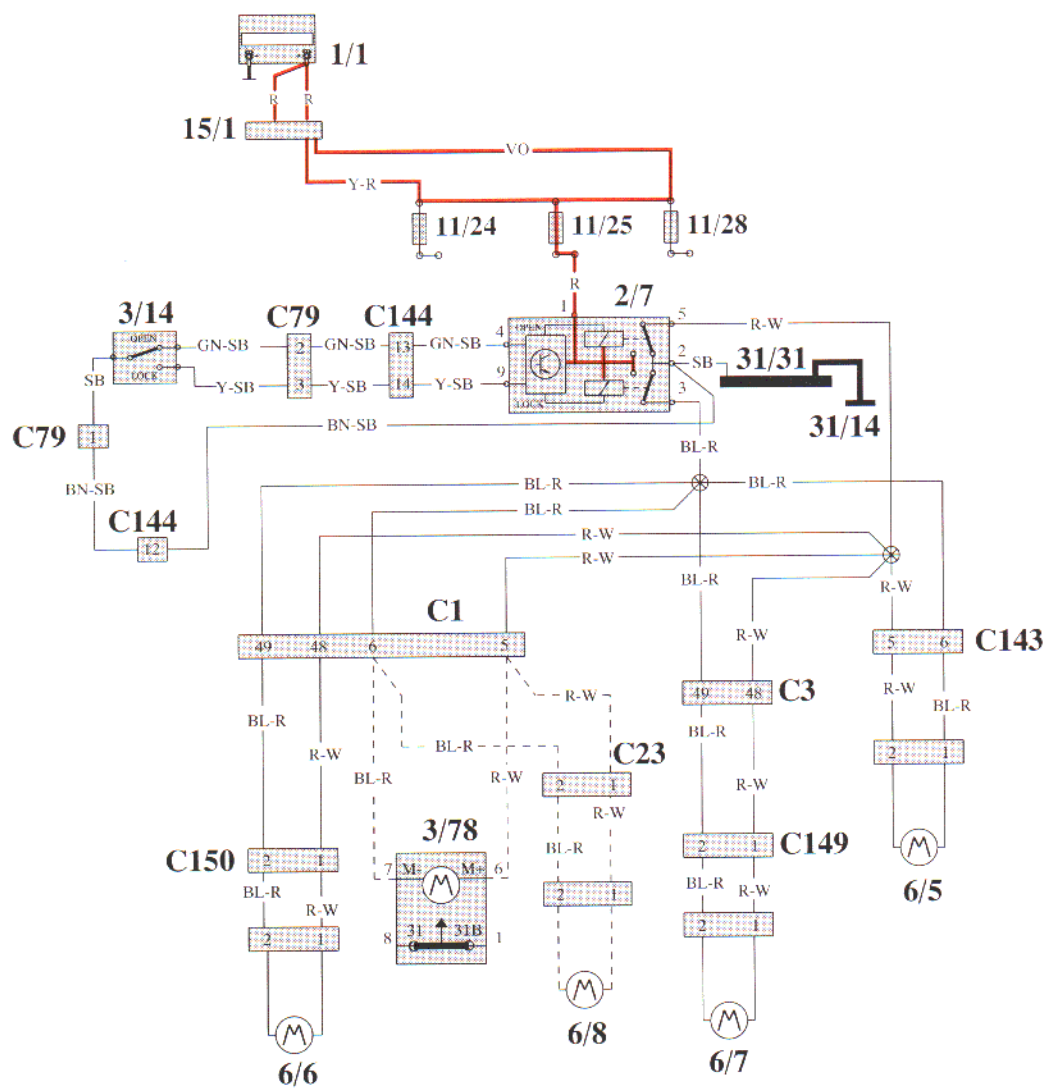
Engine running, vehicle in motion



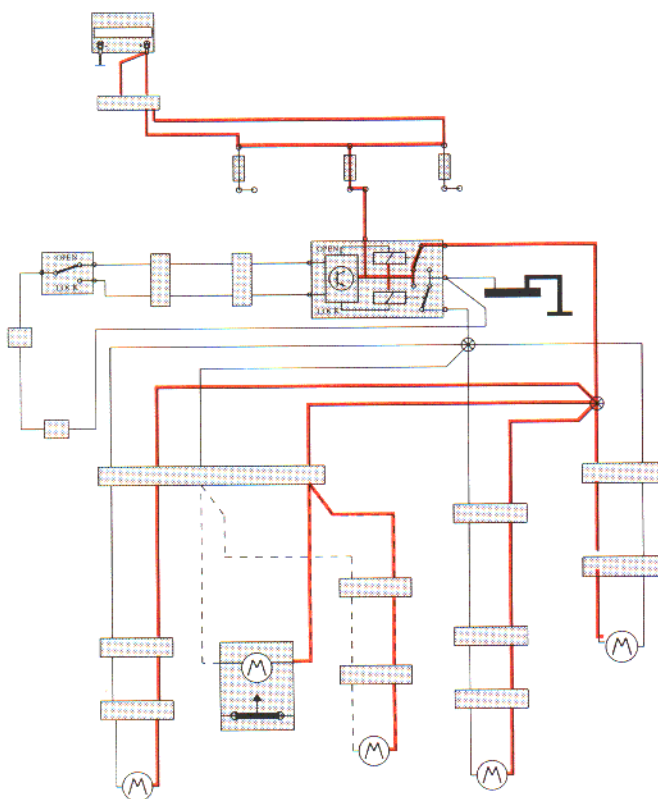
Power window lifts



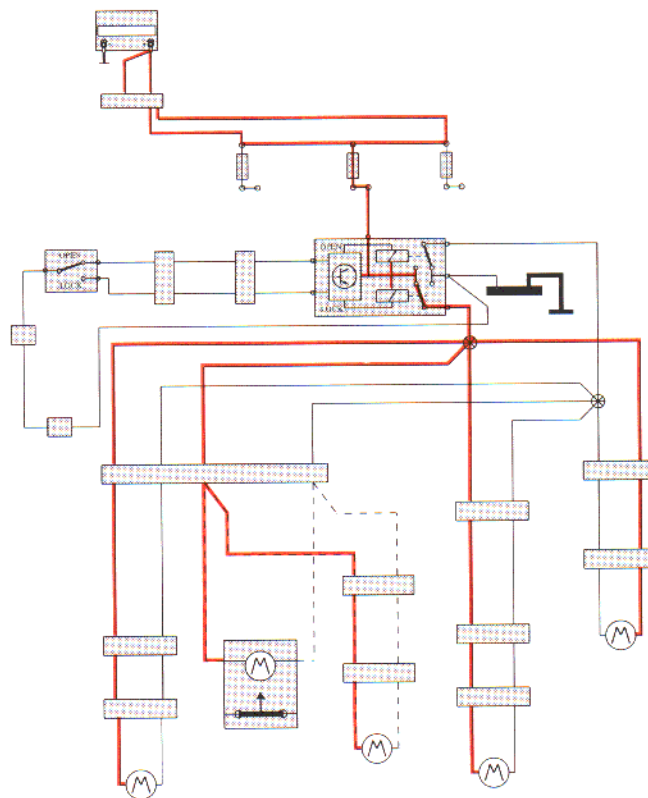
Central locking



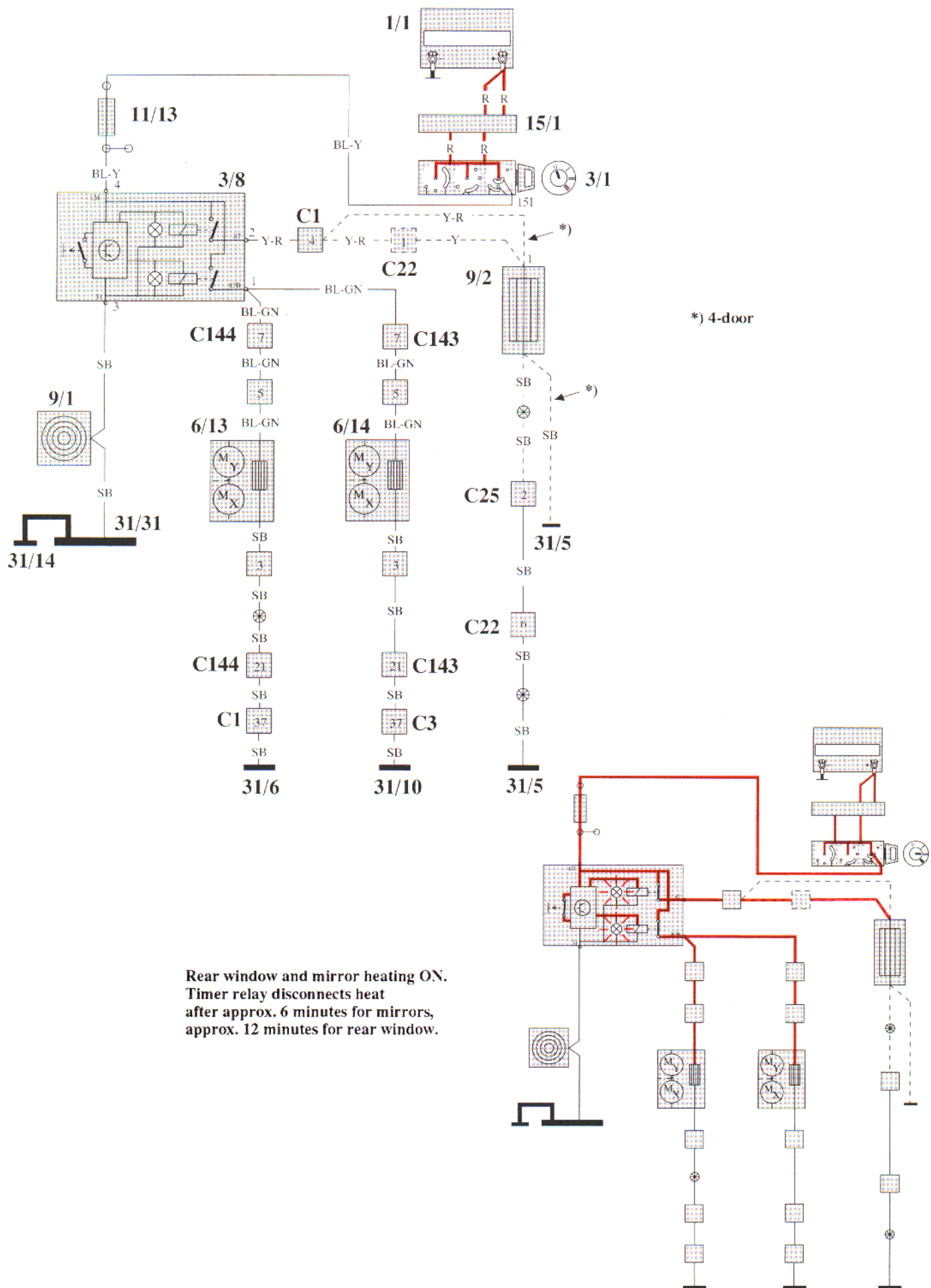
Unlocking with key



Locking with key

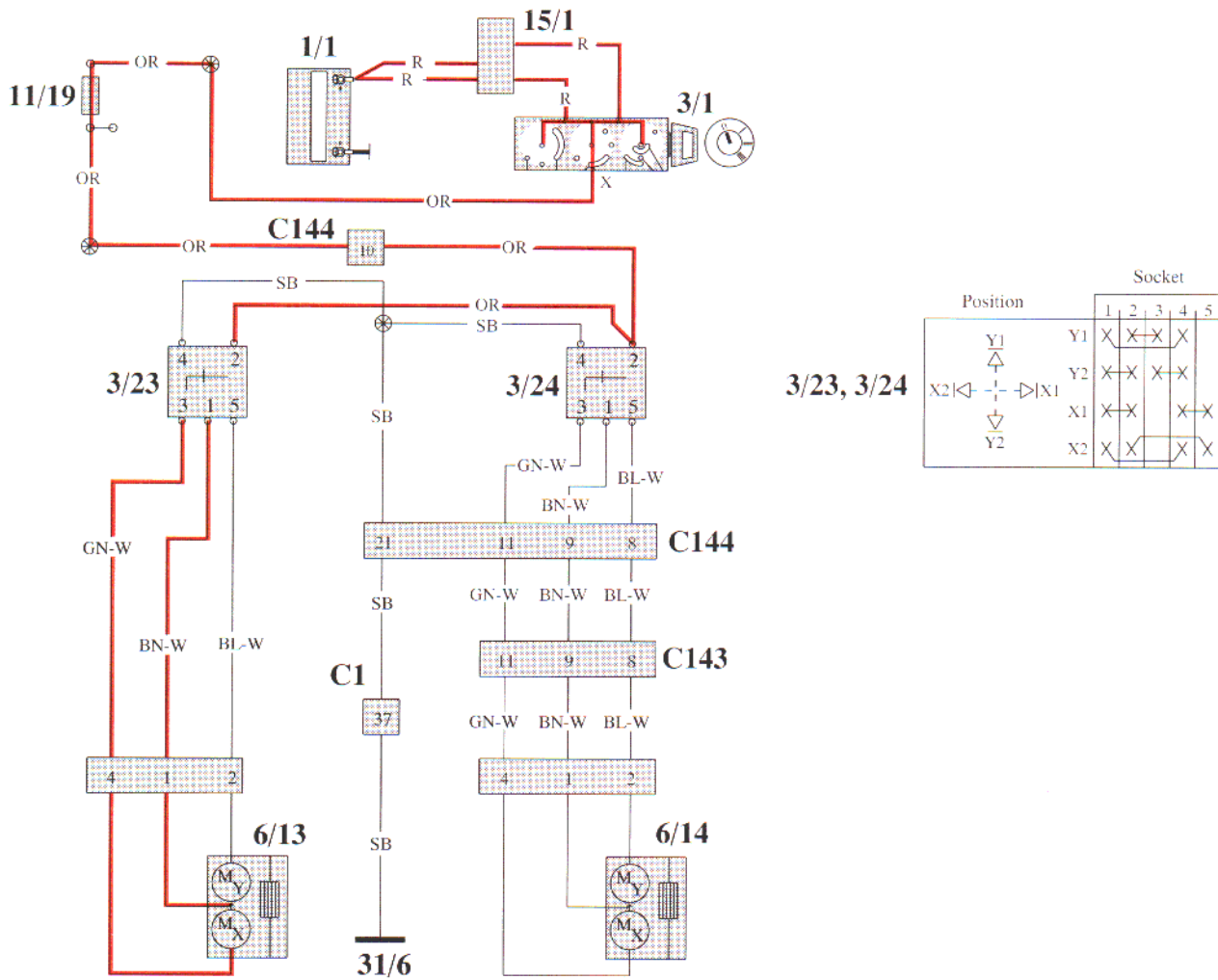


Heated rear window and door mirrors with timer relay

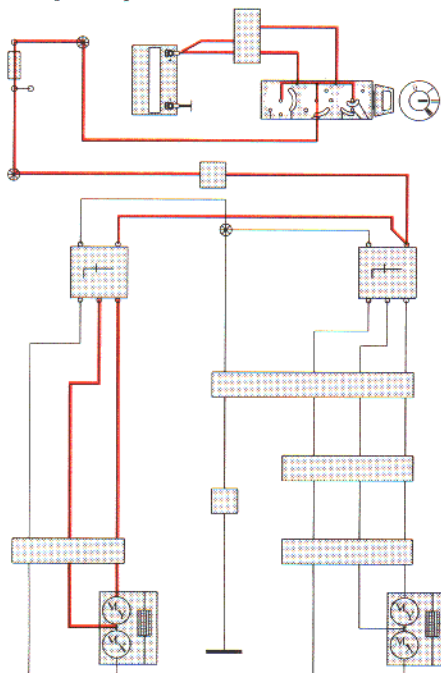


Power door mirrors

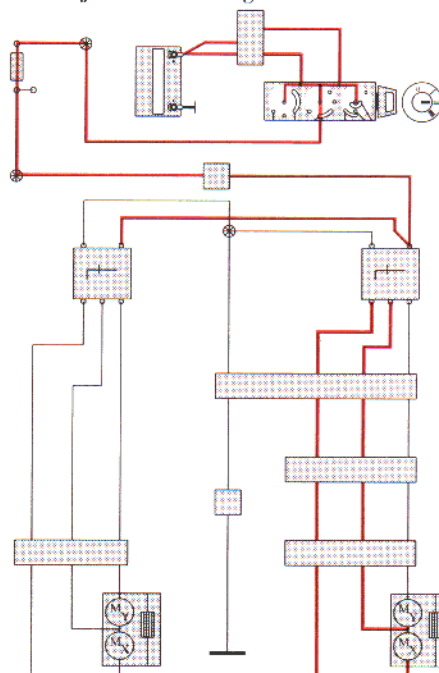
Driver's side power door mirror adjusts towards the left



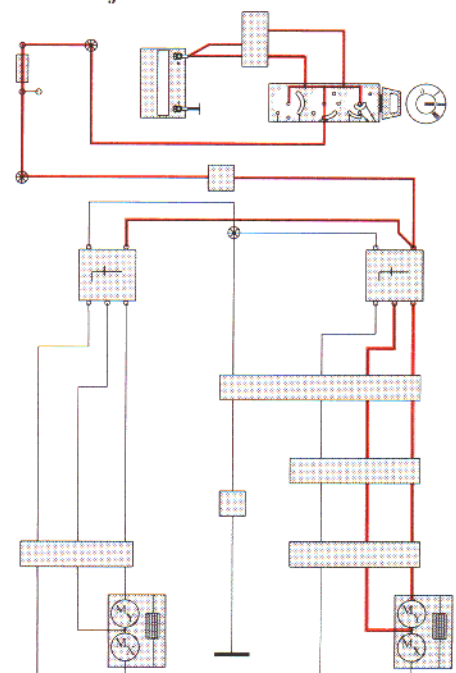
Driver's side door mirror adjusts upwards.



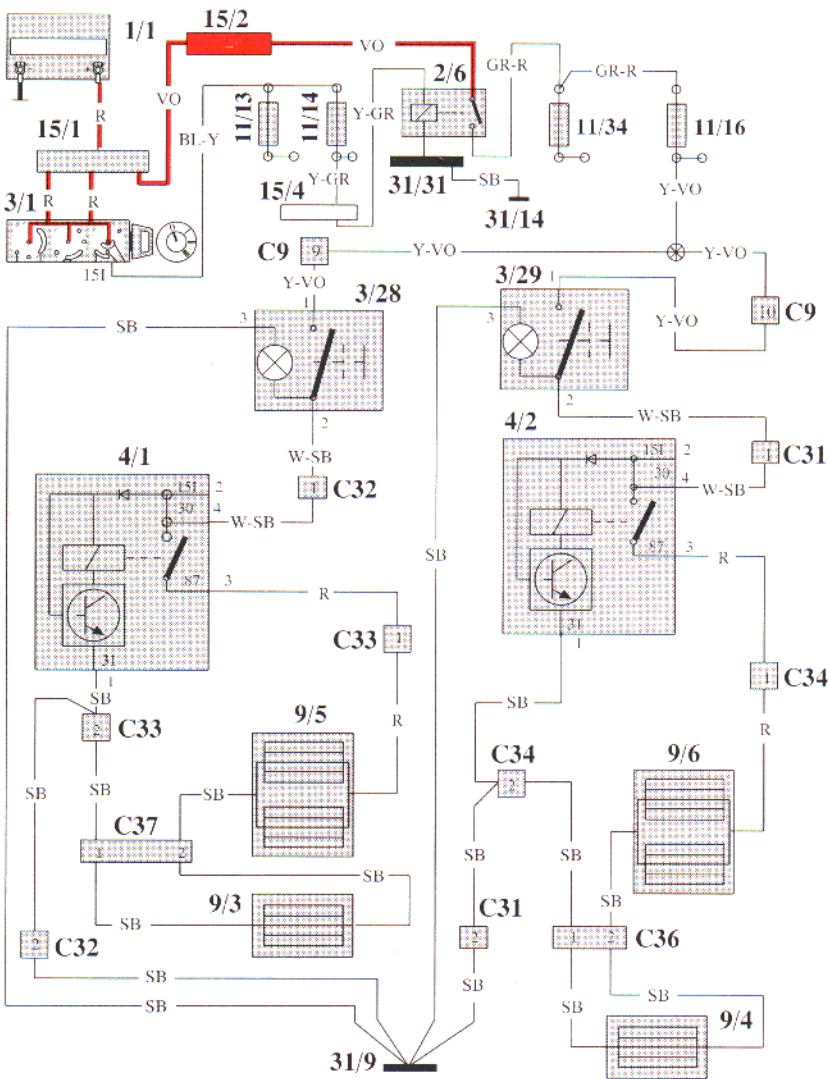
Passenger side door mirror adjusts towards right.



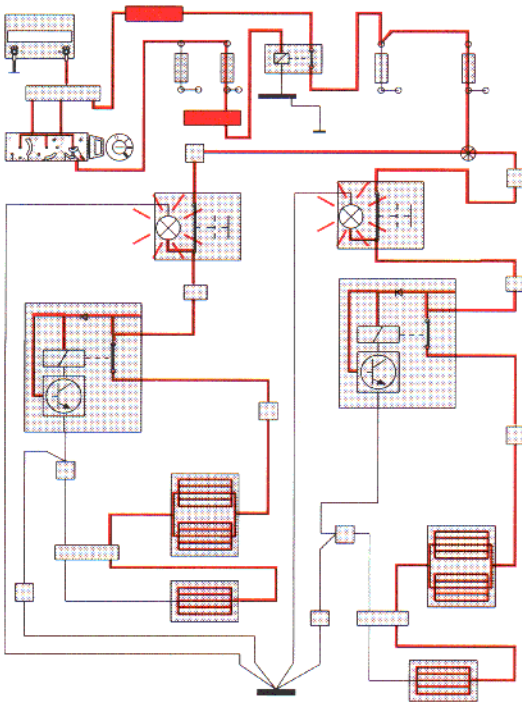
Passenger side door mirror adjusts downwards.



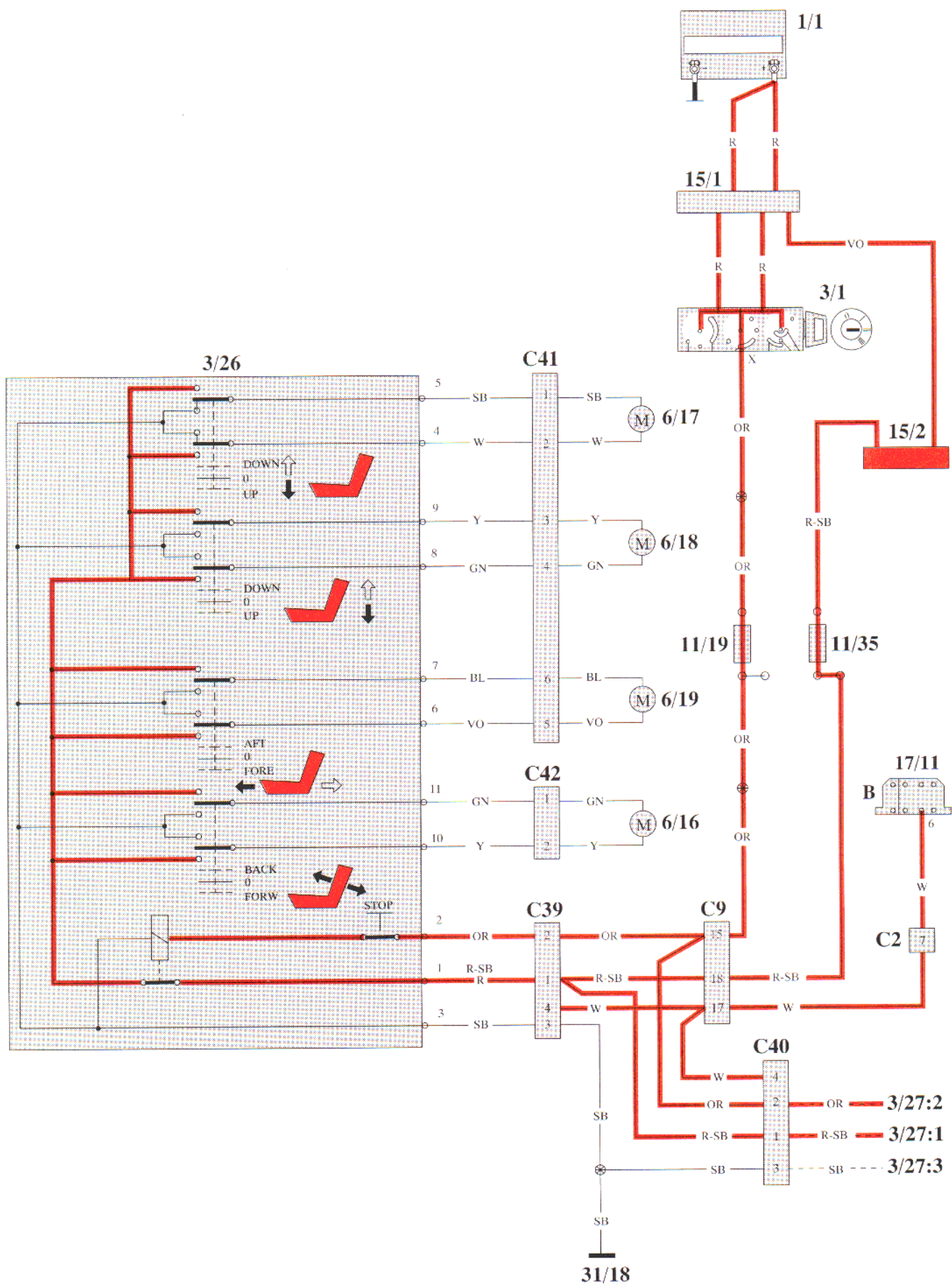
Heated driver's / passenger's seat



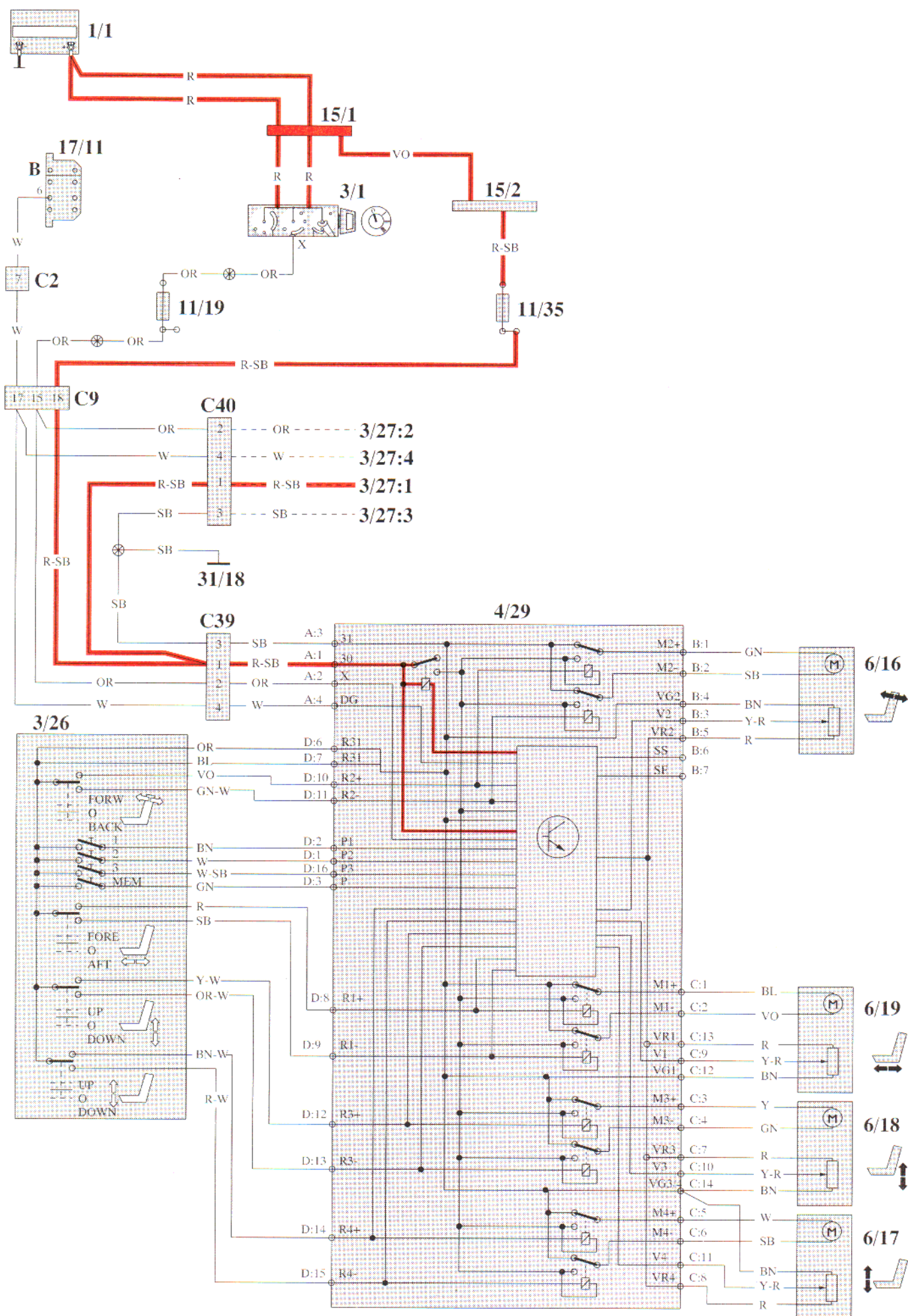
Ignition ON
Switches ON.



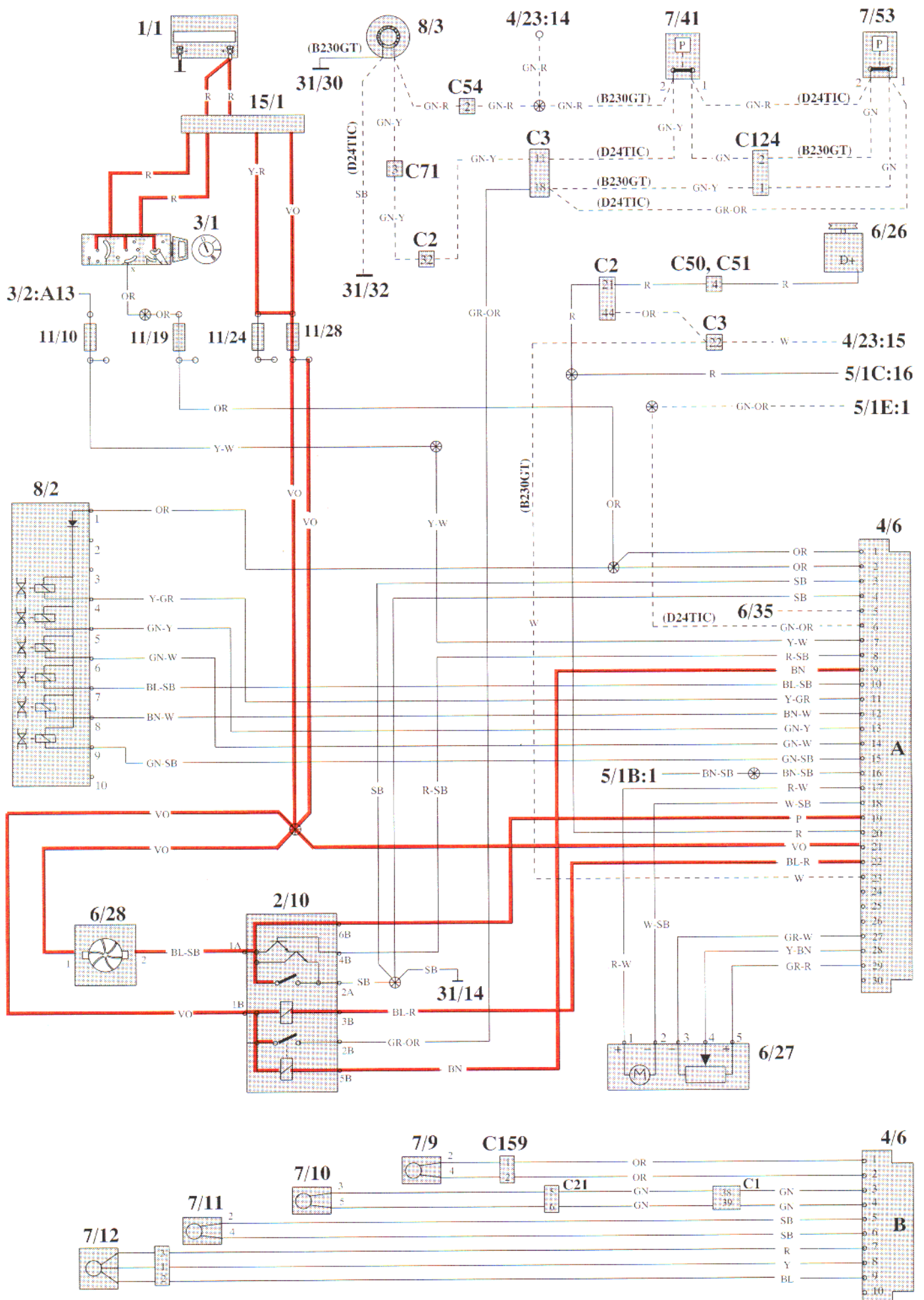
Power seat



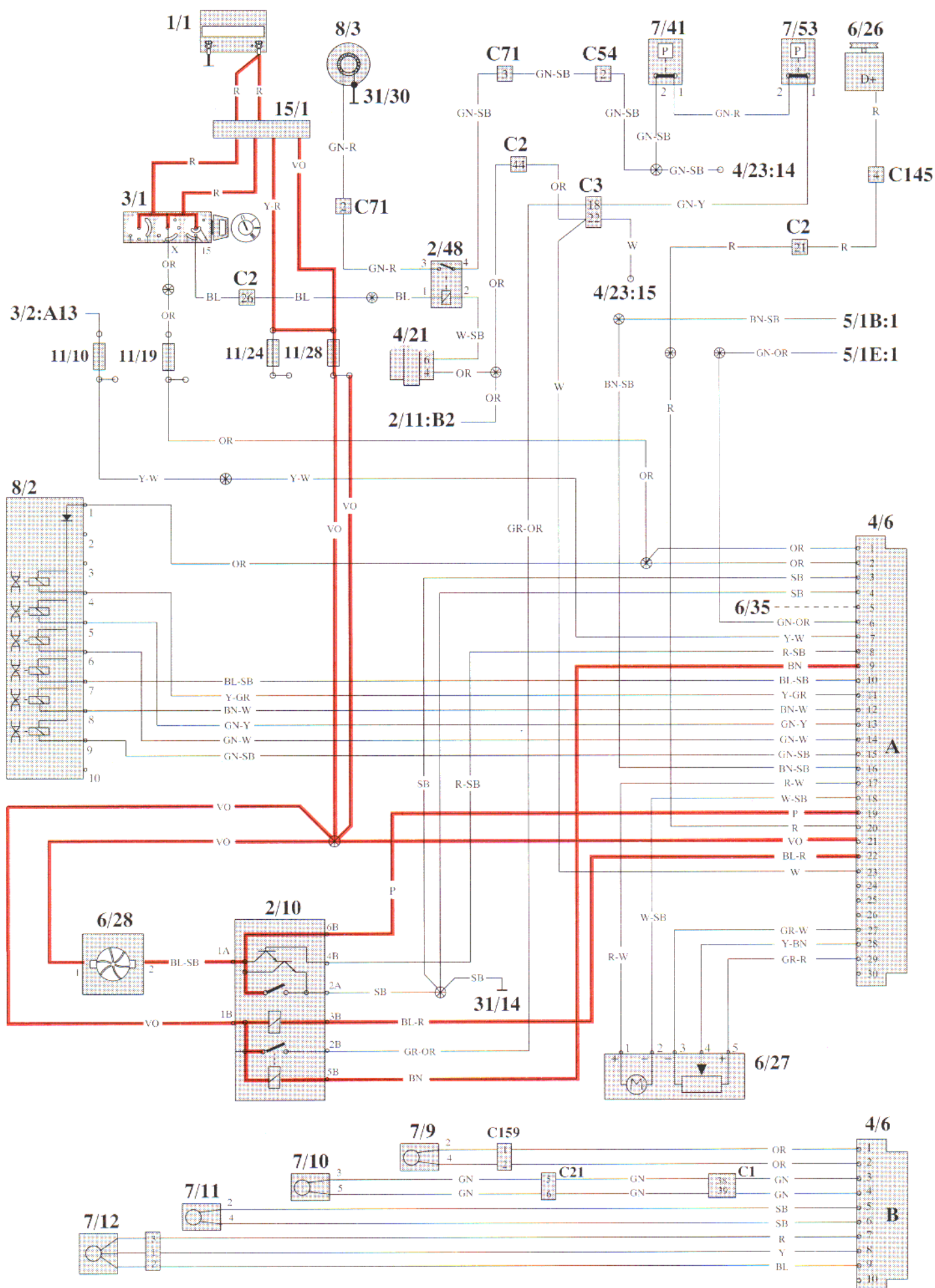
Power seat with memory



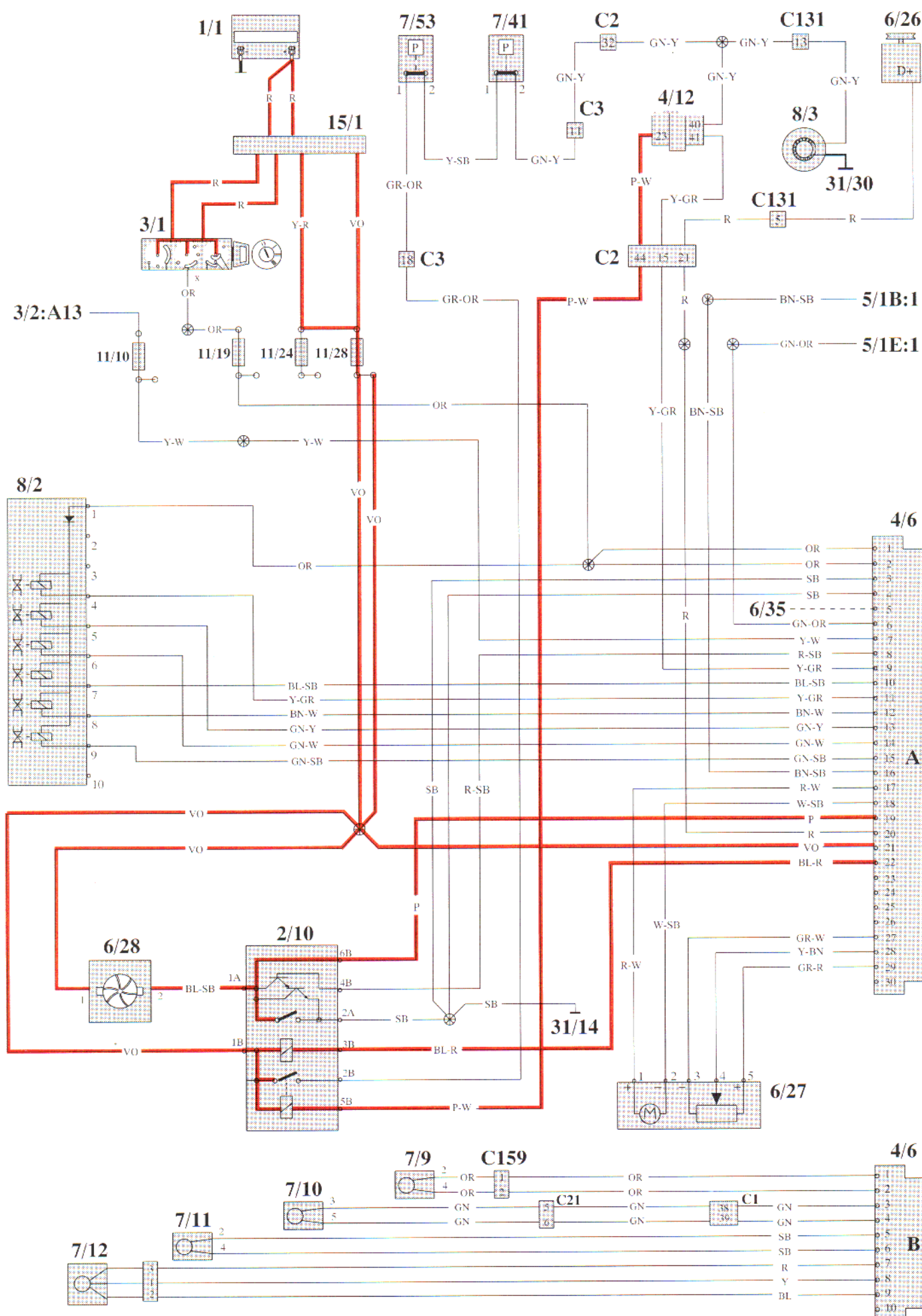
Electronic climate control, ECC (B230GT and D24TIC)



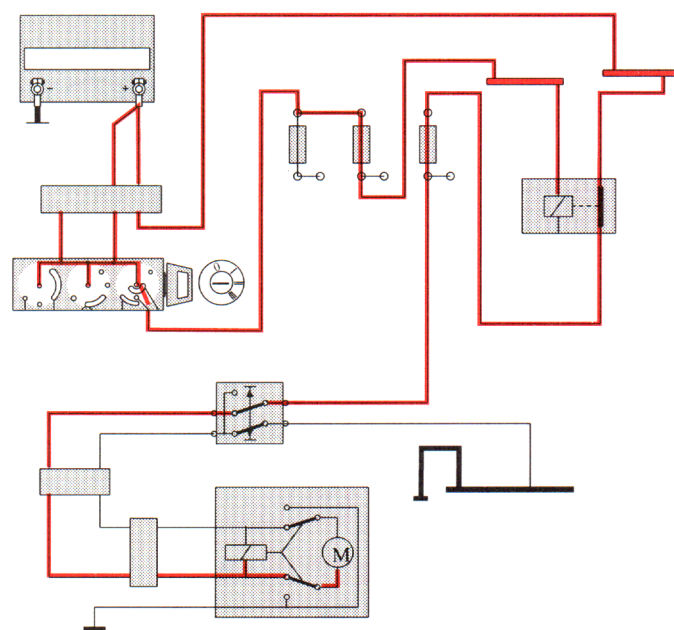
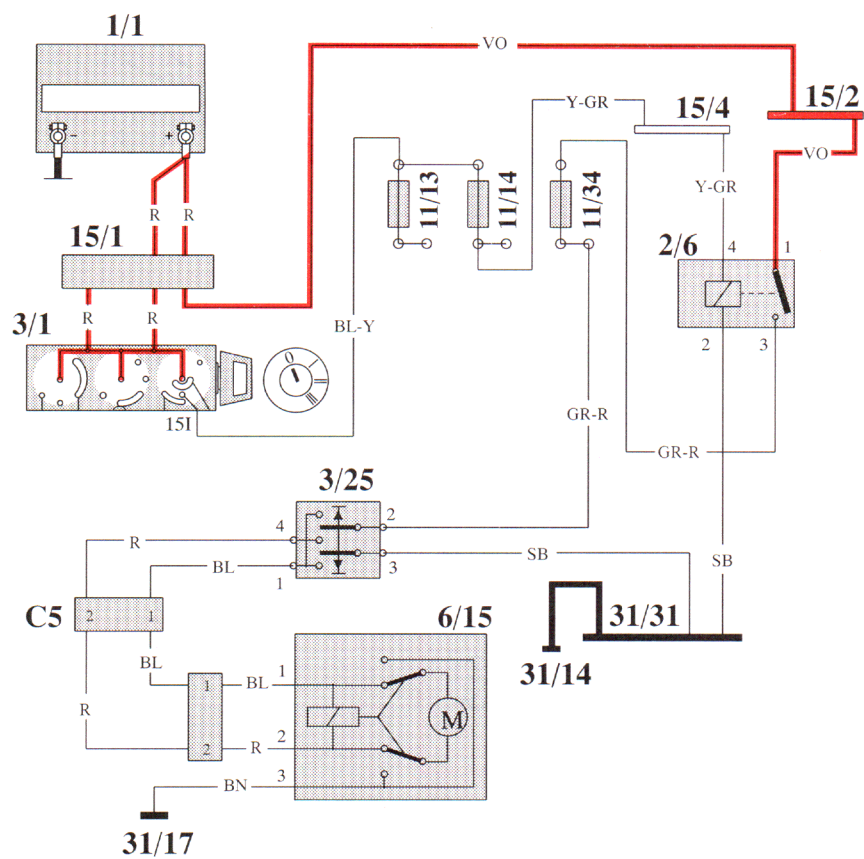
Electronic climate control, ECC (B204FT)



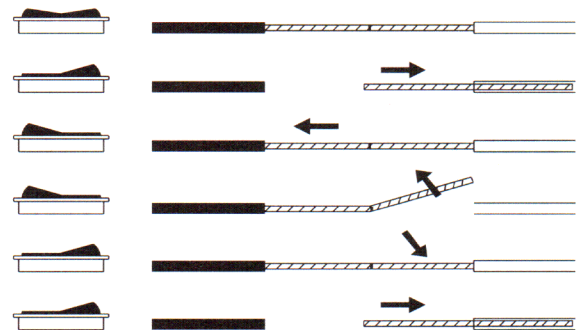
Electronic climate control, ECC (B6304F/G)



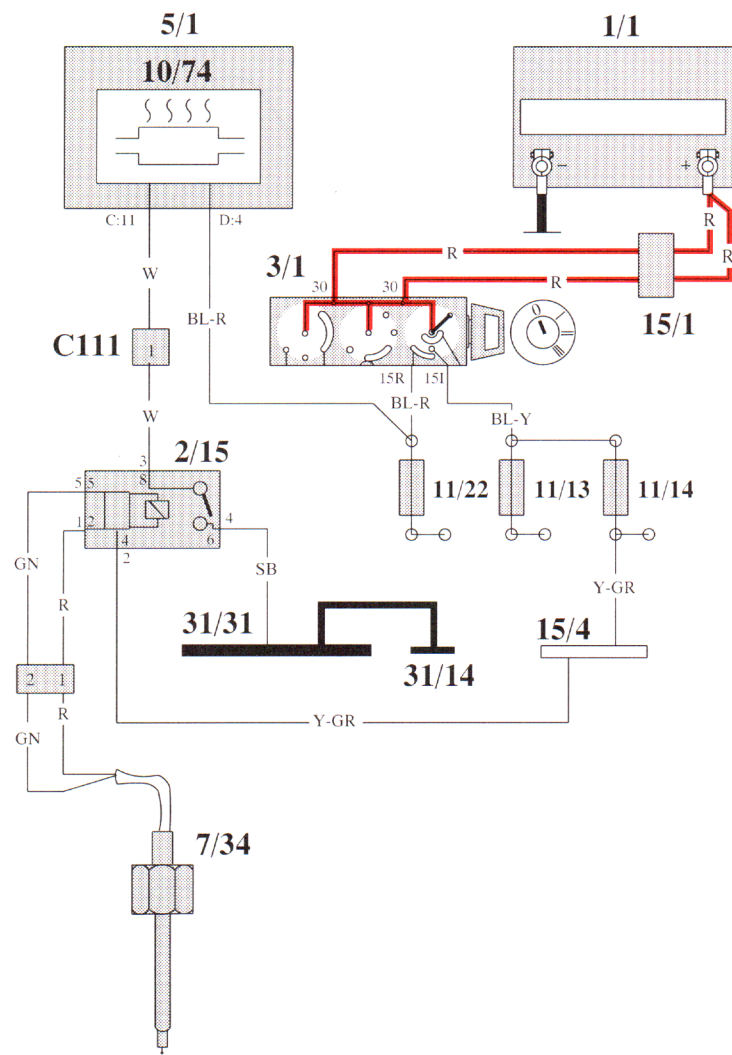
Power sunroof



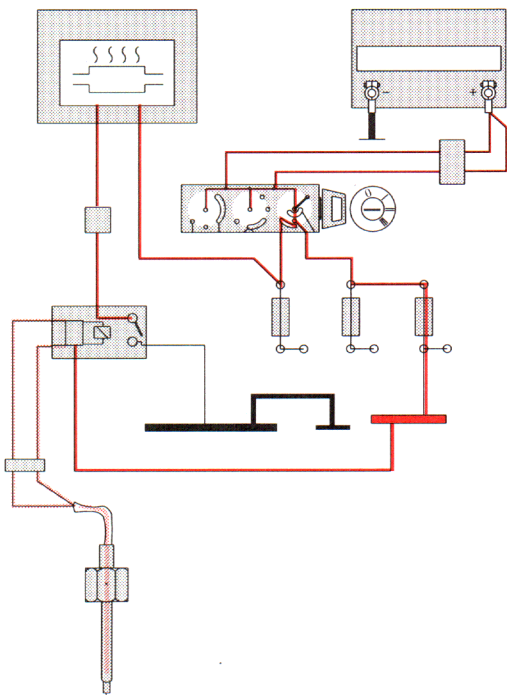
Sunroof operation



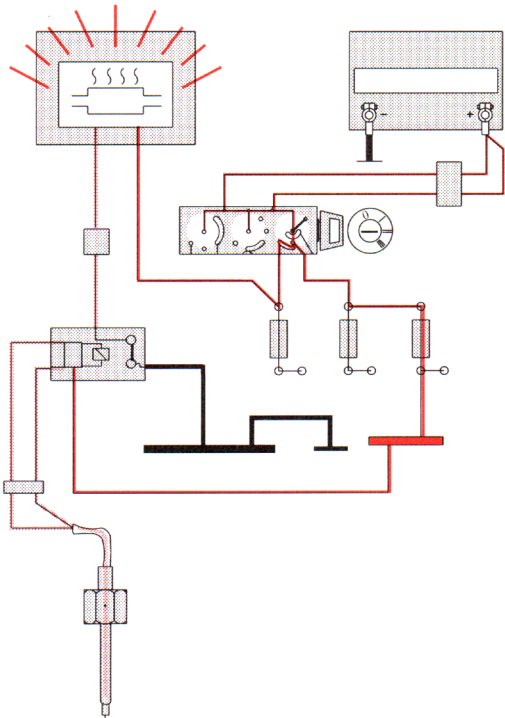
Temperature sensor, Japan



Exhaust gas temperature below 850°C

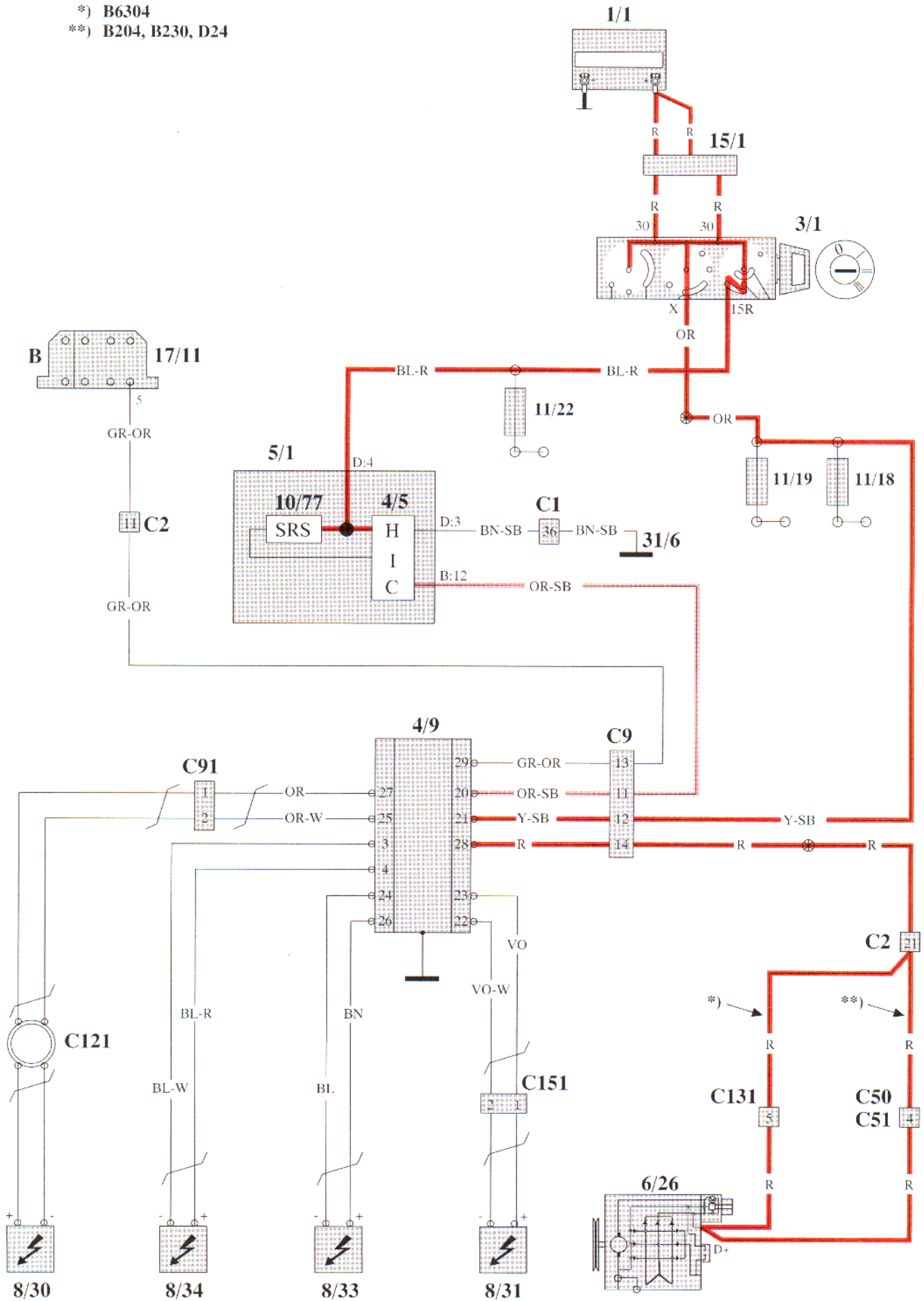


Exhaust gas temperature above 850°C

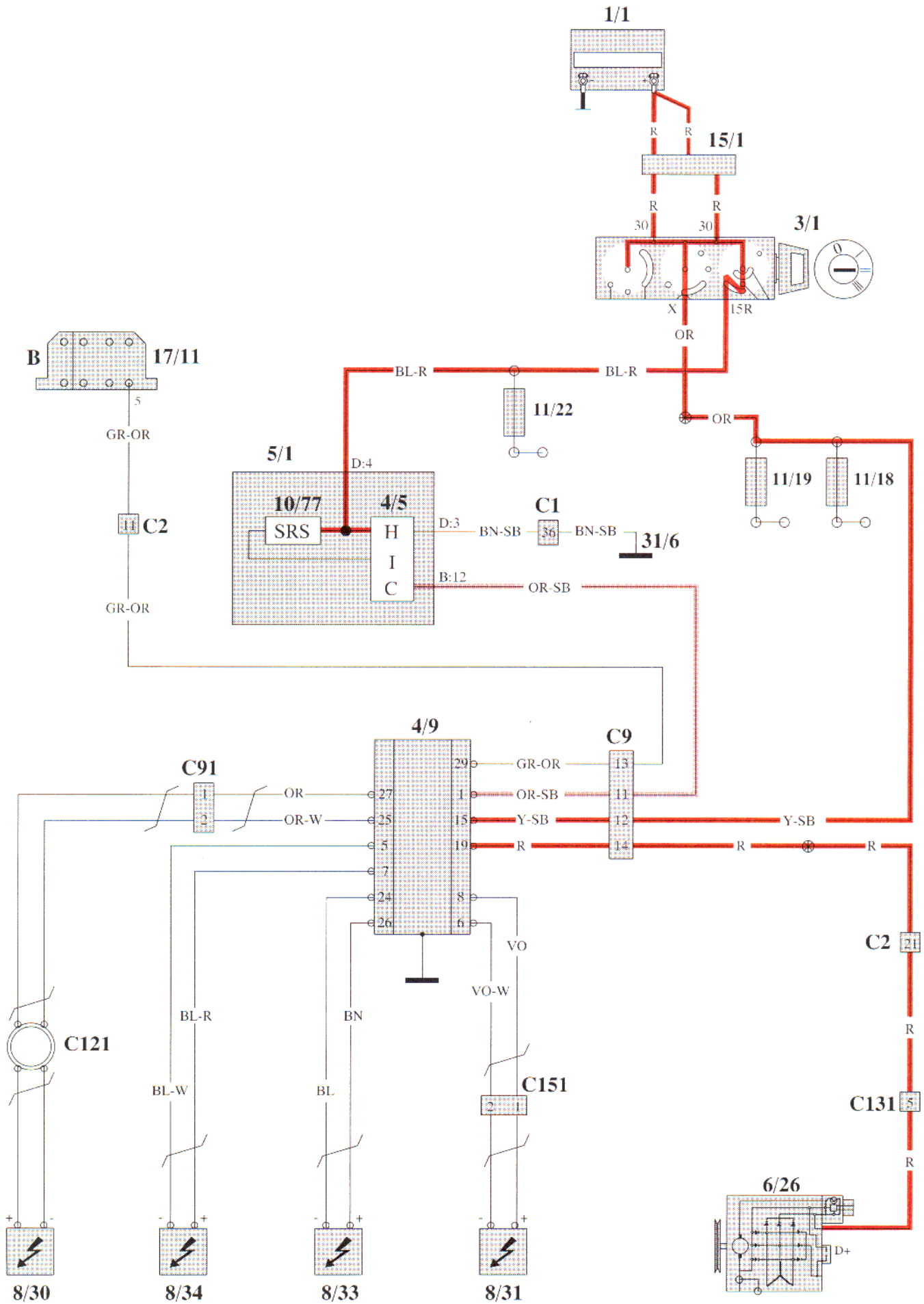


SRS Supplemental Restraint System (airbag)

*) B6304
 **) B204, B230, D24



SRS Supplemental Restraint System, USA/Canada



Comments

To

From

VOLVO CAR CORPORATION

Aftersales

Service & Market Support

Dept. 57920 PVÖP32

S-405 08 GOTHENBURG

Sweden

Publication:

Section:

Page

TP No

Suggestion/Reason:

Date

If you have any suggestions or comments about this manual make a copy of this page, write down your comments and send to us.

List of components

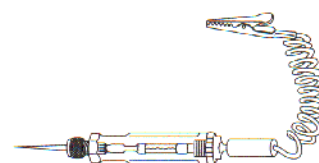
1/1	Battery	3/52	Switch, power antenna
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2/2	Foglight relay	3/63	Mode selector AW30-40/43
2/3	Regulator DIM-DIP	3/66	Idle air control (IAC) switch EGR
2/4	Intermittent wiper relay, windshield wipers	3/71	Gear position sensor
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2/6	Overload relay 15I		
2/7	Central lock relay	4/1	Overheating protector, driver's seat
2/8	Overdrive relay	4/2	Overheating protector, passenger's seat
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2/14	Relay glowplug	4/9	Sensor unit SRS
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2/16	Intermittent wiper relay, tailgate wiper	4/12	Control module Motronic (MFI) system
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		4/39	Power stage Motronic 2 (MFI) system
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3/20	Power window lift switch passenger's side front	6/13	Power door mirror, driver's side
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		7/11	Ambient temperature sensor

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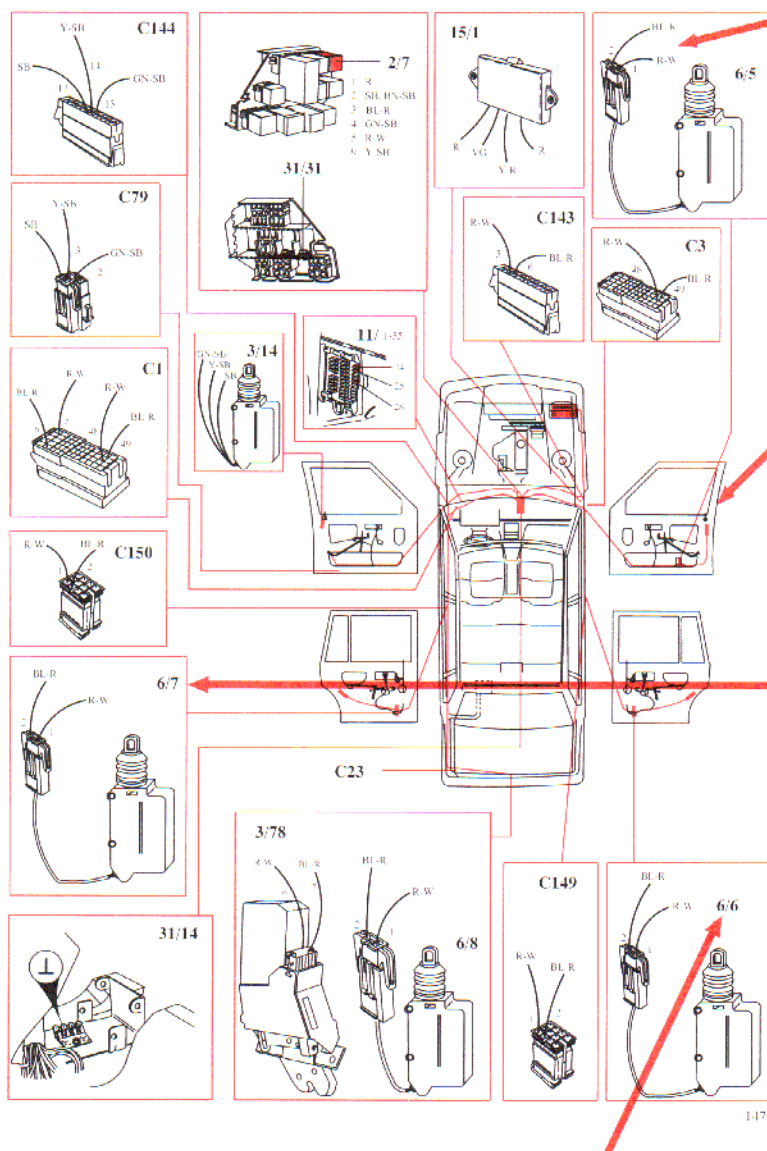
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For troubleshooting

Test with a test lamp equipped with a sharp point to penetrate the wire's insulation.



Test lamp



Here you can see how the various wires are connected to each respective component.

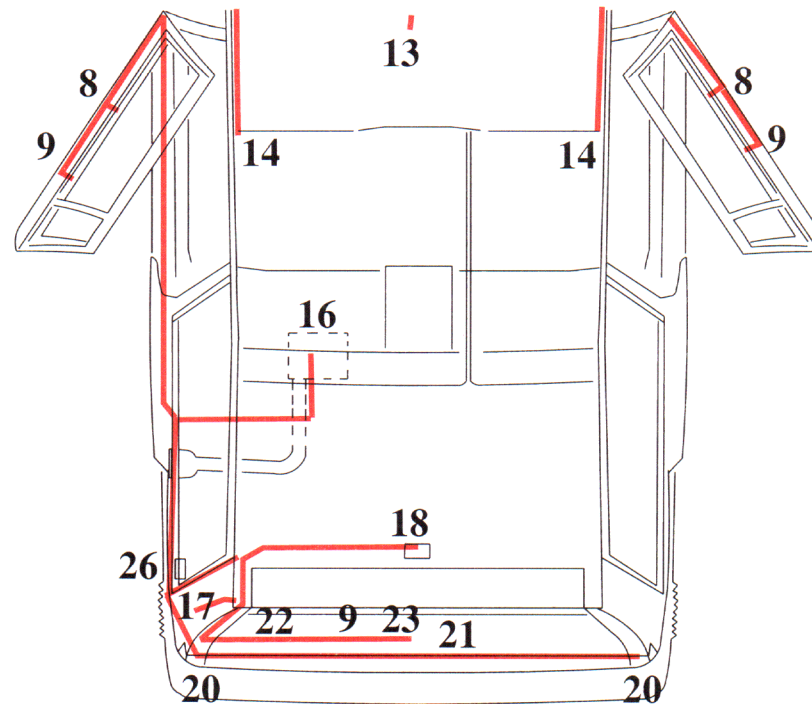
You also see where in the car the function's components are located and how the wires are routed.

The component designation consists of a type number and a component number. The type number (in this case 6) indicates which type of component it is, eg a switch, electric motor or sensor, see the list below. The component number (7) indicates which specific component is intended, eg light switch, central lock motor for tailgate or fuel level sensor.

List of type numbers

- | | |
|-------|-------------------------------------|
| 1 | Battery |
| 2 | Relay |
| 3 | Switch |
| 4 | Control module |
| 5 | Combined instrument |
| 6 | Electric motor |
| 7 | Sensor |
| 8 | Actuator |
| 9 | Heater element |
| 10 | Bulb |
| 11 | Fuse |
| 15 | Distribution rail, current supply |
| 16 | Audio |
| 17 | Service socket |
| 19 | Gauge |
| 20 | Ignition component |
| 31 | Ground connection |
| 31/31 | Ground connection rail in relay box |

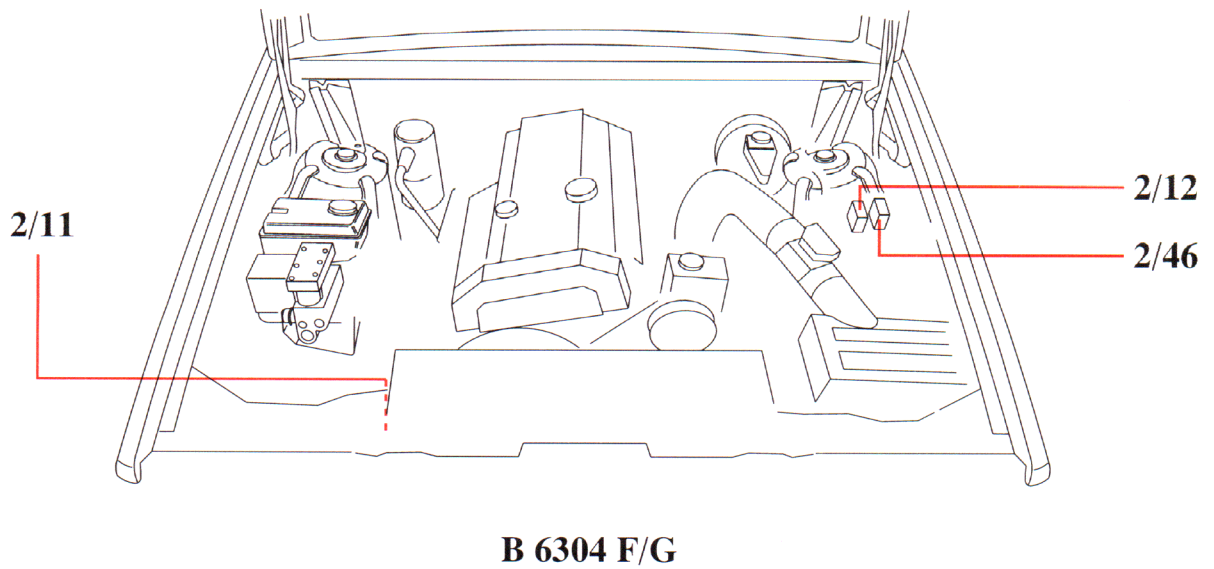
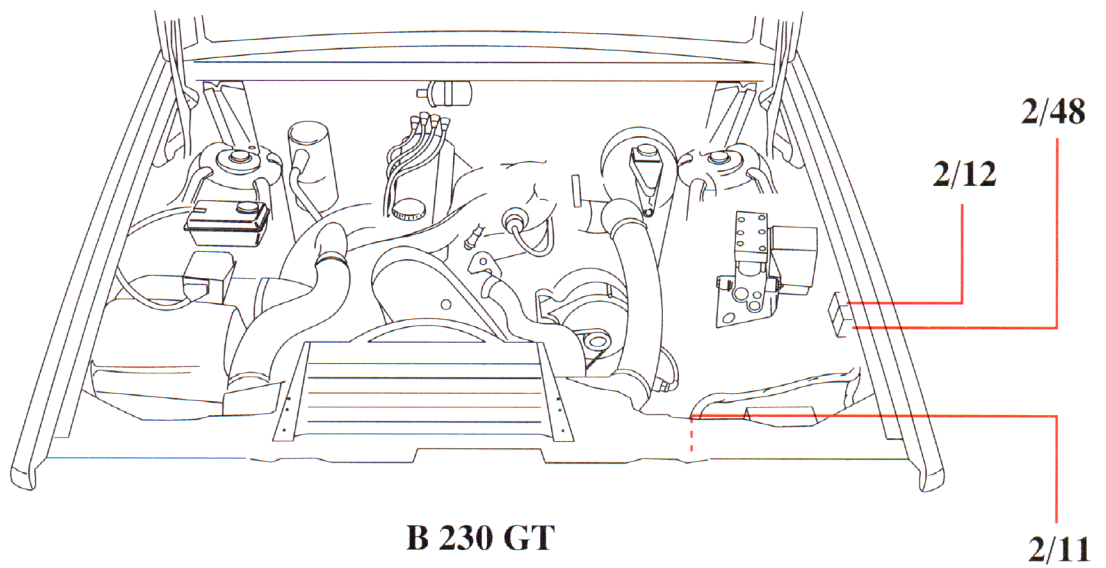
The component designation allows you to move easily from the component diagrams to the wiring diagram itself



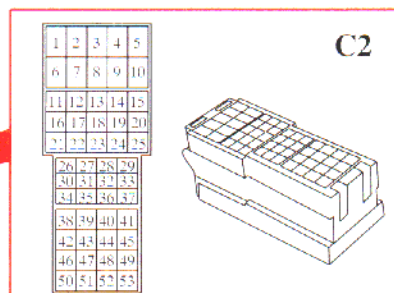
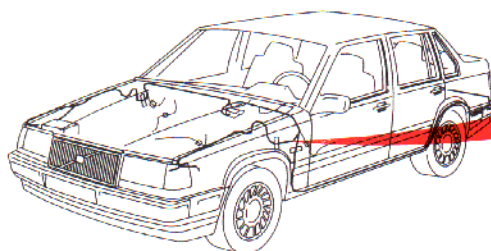
- 1 Front lights
- 2 Battery
- 3 Generator
- 4 Starter motor
- 5 Combined instrument
- 6 Relay unit
- 7 Power mirrors
- 8 Power windows
- 9 Central lock motor
- 10 Control panel, power seat
- 11 Motor, power sunroof
- 12 Ashtray light
- 13 Interior lighting
- 14 Reading lamp
- 15 Loudspeaker
- 16 Fuel level sensor
- 17 Power antenna
- 18 Luggage area lighting
- 19 ABS control module
- 20 Tail lights
- 21 Number plate light
- 22 Heated rear window
- 23 Extra brake light
- 24 Engine cooling fan
- 25 Fusebox
- 26 Bulb failure sensor, rear

Relay location in engine bay

- 2/11 Relay, engine cooling fan
- 2/12 Relay, radio interference
- 2/48 Blocking relay A/C



Connector left A-post (wheel housing harness) Black (SB)



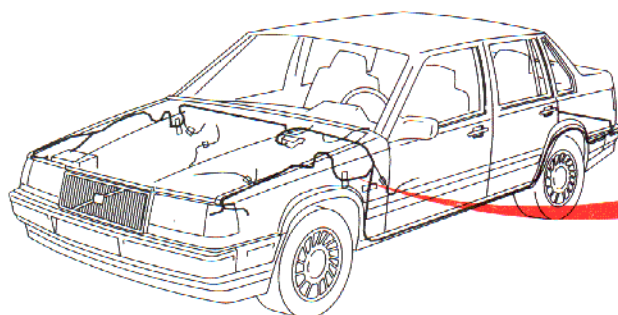
C2

B230GT

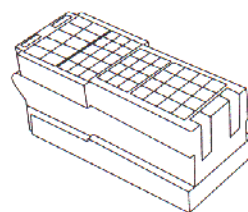
B204FT

1	Starter motor 50	(BL-GN)	Starter motor 50	(BL-GN)
2	High beam left	(BL-W)	High beam left	(BL-W)
3	Low beam left	(GN)	Low beam left	(GN)
4	Horn	(Y)	Beam width control	(BN-GN)
	Headlight wiper motor left		Horn	(Y)
5	Windshield wiper motor pos. 2	(BN)	Headlight wiper motor left	
6	Windshield wiper motor pos. 3	(GN-SB)	Windshield wiper motor pos. 2	(BN)
7	Test socket B (On-board diagnostic OBD system) pos. 6	(W)	Windshield wiper motor pos. 3	(GN-SB)
8	Fog lights, auxiliary lights	(W-SB)	Diagnostic socket B (OBD) pos. 6	(W)
9	Windshield wiper motor pos. 4	(BL)	Foglight, auxiliary lights	(W-SB)
10	Battery +	(Y-BN)	Windshield wiper motor pos. 4	(BL)
11	Testsocket B, pos. 5	(GR-OR)	Battery + via splice	(Y-BN)
12	Turn signal, left	(GN)	Diagnostic socket B (OBD) pos. 5	(GR-OR)
13	Parking light left	(W)	Turn signal left	(GN)
14	Horn (pre-routed wiring anti-theft alarm)	(BN-OR)	Parking light left	(W)
15	Control module EZK (DI) pos. 17	(Y-GR)	Horn (pre-routed wiring for anti-theft alarm)	(BN-OR)
16			Control module EZK (DI) pos. 17	(Y-GR)
17	Washer motor	(BL-R)	Washer motor	(BL-R)
	Headlight wiper motor left		Headlight wiper motor left	
18	Brake fluid level warning	(GR-W)	Brake fluid level warning	(GR-W)
19	Engine coolant temperature (ECT) sensor +	(Y-W)	Engine coolant temperature (ECT) sensor +	(Y-W)
20	Oil pressure sensor	(SB)	Oil pressure sensor	(SB)
21	Generator D+	(R)	Generator D+	(R)
	Control module ABS pos. 15	(P)	Control module, ABS, pos. 15	(P)
22	Windshield wiper motor pos. 1	(Y)	Windshield wiper motor pos. 1	(Y)
23	Service socket 50	(P)	Service socket 50	(P)
24				
25	Control module EZK (DI) pos. 4	(R-SB)		
26	Control module EZK (DI) pos. 6	(BL)	Control module TCU pos. 23	(BL)
	Power amplifier EZK (DI) pos. 4		Control module EZK pos. 6	
	Diagnostic socket (OBD) pos.4		Power stage EZK pos. 4	
			Diagnostic socket (OBD) pos.4	
27	Horn -	(BN-SB)	Blocking relay A/C pos. 1	
28			Horn -	(BN-SB)
29	Relay injectors pos. 2	(BL-Y)	Beam width control pos. 2	(GR)
30	Engine coolant temperature (ECT) sensor -	(BN-GR)	Relay, injectors pos. 2	(BL-Y)
31			Engine coolant temperature sensor	(BN-GR)
32			Control module TCU pos. 13	(VO)
33				
34	Ignition coil 1	(R-W)	Ignition coil 1	(R-W)
35	Control module, cruise control, pos. 5	(VO-W)	Control module, cruise control pos. 5	(VO-W)
36	Solenoid switch, hood (pre-routed wiring anti-theft alarm)	(GR-OR)	Solenoid switch, hood (pre-routed wiring for anti-theft alarm)	(GR-OR)
37	Control module cruise control pos. 2	(P-SB)	Control module, cruise control pos. 2	(P-SB)
38	Hydraulic unit ABS pos. 11	(GN)	Hydraulic unit ABS pos. 11	(GN)
	Control module ABS pos. 29		Control module ABS pos. 29	
39	Control module ABS pos. 25	(Y-BN)	Control module ABS pos. 25	(Y-BN)
	Control module cruise control pos. 7	(Y-BN)	Control module cruise control pos. 7	(Y-BN)
40	Control module ABS pos. 4	(BL-R)	Control module ABS pos. 1	(Y-R)
41			TCU valve pos. 1 via connector C50, pos. 8	(BL-GN)
			EGTC sensor pos. 3 via connector C50, pos. 8	
42	Control module ABS pos. 7	(GN-W)	Control module ABS pos. 7	(GN-W) (GN-W)
43	Control module ABS pos. 9	(BN-W)	Control module ABS pos. 9	(BN-W)
44			Relay, engine cooling fan pos. B:2	(OR)
			Control module TCU pos. 4	
45	Control module cruise control pos. 11	(BL-OR)	Control module cruise control pos. 11	(BL-OR)
46	Control module cruise control pos. 6	(BL-GR)	Control module cruise control pos. 6	(BL-GR)
47	Control module cruise control pos. 4	(OR-W)	Control module cruise control pos. 4	(OR-W)
48	Control module cruise control pos. 3	(OR-SB)	Control module cruise control pos. 3	(OR-SB)
49	Control module cruise control pos. 13	(GN-OR)	Control module cruise control pos. 13	(GN-OR)
50	Control module cruise control pos. 10	(SB)	Control module cruise control pos. 10	(SB)
	Ground connector, left A-post	(Y-SB)	Ground connector left A-post	(Y-SB)
51	Control module EZK (DI) pos. 3	(BL-P)	Control module EZK (DI) pos. 3	(BL-P) (BL-P)
52	Control module EZK (DI) pos. 5	(Y-BN)	Control module EZK (DI) pos. 5	(Y-BN)
53	Diagnostic socket (OBD) pos. 2	(GN-GR)	Diagnostic socket (OBD) pos. 2	(GN-GR)

Connector left A-post (sill harness)

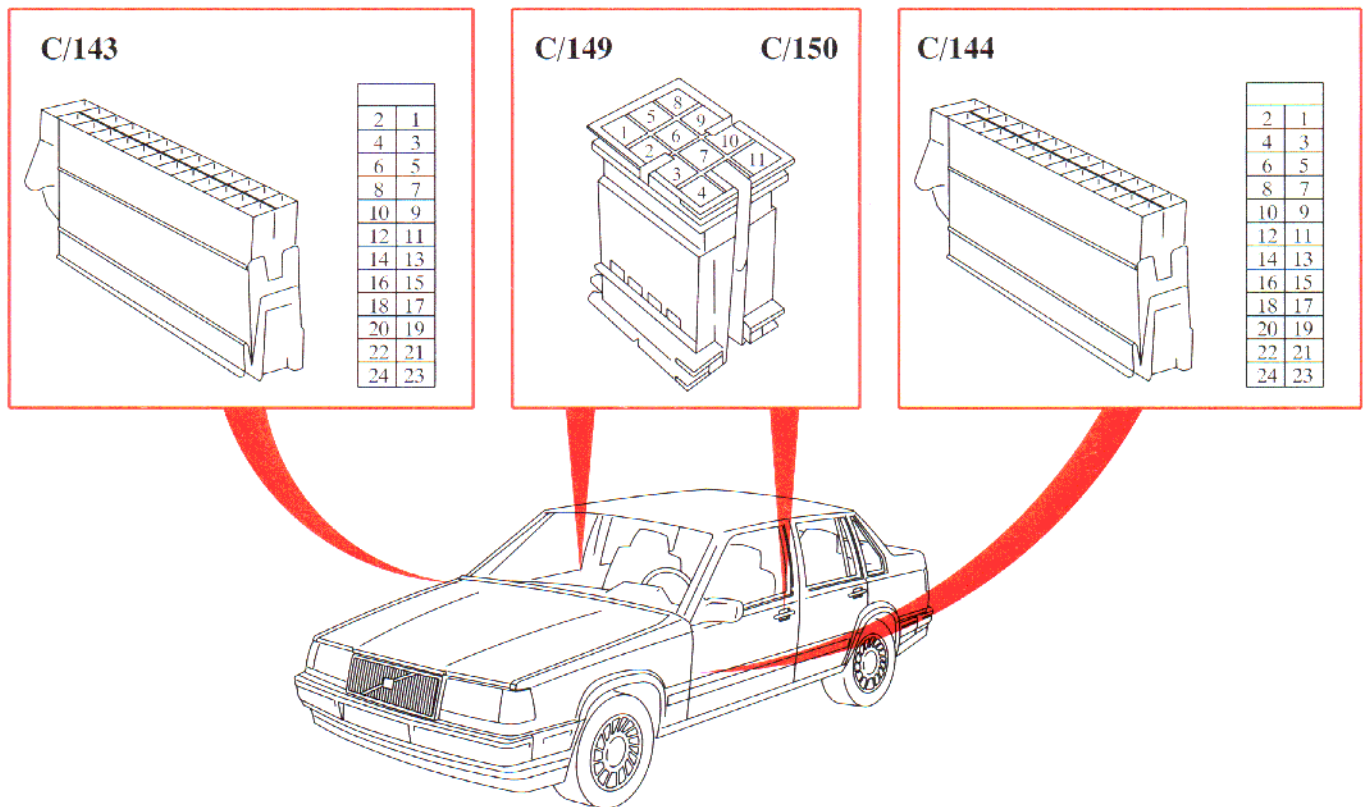


C1



1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	
30	31	32	33	
34	35	36	37	
38	39	40	41	
42	43	44	45	
46	47	48	49	
50	51	52	53	

1	Number plate lighting	(W)
	Bulb failure sensor rear pos. 3	
2	Bulb failure sensor rear pos. 4	(GR)
3	Bulb failure sensor rear pos. 12	(Y-BN)
4	Heated rear window	(Y-R)
5	Central locking, tailgate	(R-W)
6	Central locking, tailgate	(BL-R)
7	Turn signal, left rear	(GN)
8	Turn signal, right rear	(BL-GN)
9		
10	Tailgate wiper	(Y-W)
11	Vehicle speed sensor (VSS)	(BN-W)
12	Vehicle speed sensor (VSS)	(GN-W)
13	Fuel level sensor +	(GR-W)
14	Bulb failure sensor, rear pos. 11	(Y-SB)
15	Delayed courtesy light	(W-SB)
16	Bulb failure sensor, rear pos. 8	(Y-GR)
17		
18	Rear fog lights	(VO-W)
19	Fuel pump	(P)
20	Backup (reversing) lights	(GR-SB)
21	Roof light, trunk (pre-routed wiring, anti-theft alarm)	(BN-GR)
22	Power antenna	(BL-R) (R-SB)
23	Power antenna	(GN-R) (GN-SB)
24	Tailgate wiper	(OR)
25	Fuel level sensor -	(BN)
26	Antenna amplifier (5-door)	(R-SB) (GN-OR)
27	Roof light ground connector	(BL-SB)
	Door switch, driver's door	
	Door switch, left rear	
28	Door switch, left front	(W-SB)
29	Door-open warning light, left front	30 + (GN-R)
	Door-open warning light, left rear	
	Interior lighting	
	Vanity mirror light, left	
30	Side turn signal repeater (not USA/CDN)	(GN)
31	Rear loudspeaker + left side	(Y-BN)
32	Rear loudspeaker - left side	(GN-BN)
33	Loudspeaker + parcel shelf, right	(Y-SB)
34	Loudspeaker - parcel shelf, right	(GN-SB)
35		
36	Ground connector, speedometer	(BN-SB)
37	Ground connector, left A-post	(SB)
38	Sensor, interior temperature	(GN)
39	Sensor, interior temperature	(GN)
40		
41		
42	Switch, power window right rear	(P)
43		
44		
45		
46		
47		
48	Central locking left rear door	(R-W)
49	Central locking left rear door	(BL-R)
50		
51		
52	Power window left rear door	(GN)
53	Power window left rear door	(GR)



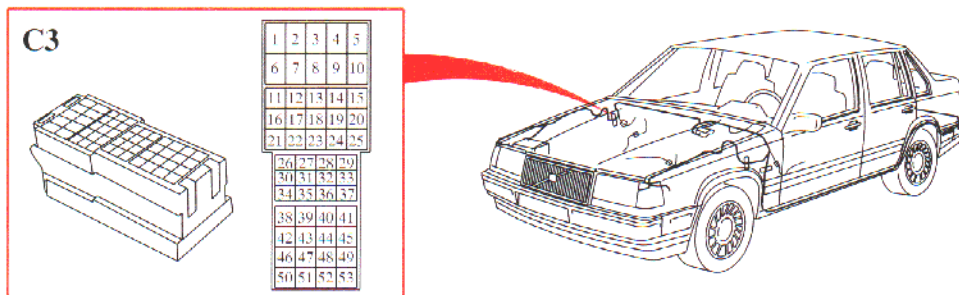
C144 Driver's door

C143 Passenger's side door

C149, C150 Rear door

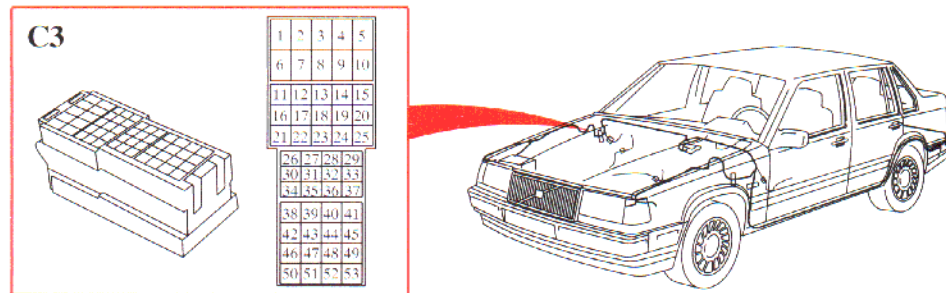
1	Warning light, door	(GN-R)	Warning light, door	(GN-R)	Central locking	(R-W)
2	Warning light, door	(W-SB)	Warning light, door	(W-SB)	Central locking	(BL-R)
3	Loudspeaker +	(Y-W)	Loudspeaker +	(Y-W)	Warning light, door	(GN-R)
4	Loudspeaker -	(W)	Loudspeaker -	(W)	Warning light, door	(W-SB)
5			Central locking	(R-W)	Power window lift	(P)
6			Central locking	(BL-R)	Power window lift	(BN)
7	Heated door mirror	(BL-GN)	Heated door mirror	(BL-GN)	Power window lift	(R)
8	Switch power door mirror	(BL-W)	Power door mirror	(BL-W)	Loudspeaker	(Y-W)
9	Switch power door mirror	(BN-W)	Power door mirror	(BN-W)	Loudspeaker	(W)
10	Switch power door mirror	(OR)				
11	Switch power door mirror	(GN-W)	Power door mirror	(GN-W)		
12	Switch, central locking	(BL-GN)				
13	Central locking	(GN-SB) (GN-SB)				
14	Central locking	(Y-SB) (Y-SB)				
15	Switch power window lift	(BN)				
16	Switch power window lift	(Y)				
17	Switch power window lift	(GN)				
18	Switch power window lift	(GR)				
19	Switch power window lift	(P)				
20	+ supply, switch power window lift	(GR-R)				
21	Ground power door mirror	(SB)	Ground power door mirror	(SB)		
22	Switch power window lift	(BL)	Switch power window lift	(BL)		
23	Switch power window lift	(R) (GR-R)	Switch power window lift	(R) (GR-R)		
24			Switch power window lift	(GR-R)		

Connector right A-post (wheel housing harness)



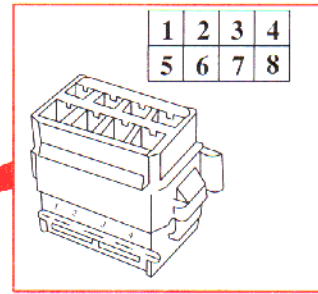
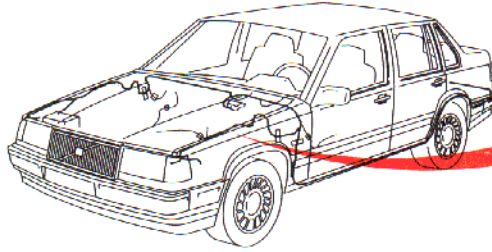
B6304F/G			D24TIC		
1	Battery +	(Y-BN)	High beam right	(R-W)	
2	High beam right	(R-W)	Low beam right	(GN-W)	
3	Low beam right	(GN-W)	Beam width control		
4	Headlight wiper motor right (not USA/CDN)	(Y)	Headlight wiper motor right (not USA/CDN)	(Y)	
5	Relay, engine cooling fan pos. B1	(GN-OR)			
	Low-speed pressure sensor, engine cooling fan pos. 2				
6	Relay, engine cooling fan pos. B2	(Y-BN)			
	High-speed pressure sensor, engine cooling fan pos. 2				
7					
8	Fog lights, auxiliary lights	(W-SB)	Fog lights, auxiliary lights	(W-SB)	
9					
10					
11	Pressure sensor, A/C	(GN-Y)	Pressure sensor, A/C	(GN-Y)	
12	Turn signal, right	(BL-GN)	Turn signal, right	(BL-GN)	
13	Parking light, right	(GR)	Parking light, right	(GR)	
14	ABS control module pos. 29	(GN)			
	ABS hydraulic unit pos. 11				
15	ABS control module pos. 25	(Y-BN)			
16	Engine coolant level sensor pos. 1	(Y)	Engine coolant level sensor pos. 1	(Y)	
17	Headlight wiper motor right (not USA/CDN)	(BL-R)	Headlight wiper motor right (not USA/CDN)	(BL-R)	
18	Pressure sensor, A/C	(GR-OR)	Pressure sensor, A/C	(GR-OR)	
19	ABS control module pos. 1	(BL-R)			
20	Beam width control right actuator, pos. 2	(GR-R)	Beam width control right actuator, pos. 2	(GR-R)	
21	Control module ABS pos. 7	(GN-W)	Washer fluid level sensor	(BL-W)	
22	Control module ABS pos. 9	(BN-W)			
23	Control module ABS pos. 31	(BL-P)	Tailgate washer motor	(BL-Y)	
24	Control module ABS pos. 15	(P)			
25	Ground connection right A-post	(Y-SB)			
26					
27	Warning light, front door	(BL-SB)	Warning light, front door	(BL-SB)	
	Warning light, rear door		Warning light, rear door		
28	Warning light, front door	(W-SB)	Warning light, front door	(W-SB)	
29	Warning lights, right rear door	(GN-R)	Warning lights, right rear door	(GN-R)	
	Vanity mirror light, right		Vanity mirror light, right		
30	Turn signal side repeater (not USA/CDN)	(BL-GN)	Turn signal side repeater (not USA/CDN)	(BL-GN)	
31	Rear loudspeaker +	(Y-SB)	Rear loudspeaker +	(Y-SB)	
32	Rear loudspeaker -	(GN-SB)	Rear loudspeaker -	(GN-SB)	
33					
34					
35					
36					
37	Ground connector right A-post	(SB)	Ground connector right A-post	(SB)	
38					
39					
40					
41					
42	Power window lift rear, right	(P)	Power window lift rear, right	(P)	
43					
44					
45					
46					
47					
48	Central locking, rear door, left pos. 1	(R-W)	Central locking, rear door, left pos. 1	(R-W)	
49	Central locking, rear door, left pos. 2	(BL-R)	Central locking, rear door, left pos. 2	(BL-R)	
50					
51					
52	Switch, power window lift pos. 3	(BN)	Switch, power window lift pos. 3	(BN)	
53	Switch, power window lift pos. 5	(Y)	Switch, power window lift pos. 5	(Y)	

Connector, right A-post (wheel housing harness)



B230GT			B204FT		
1	Control module LH (MFI) pos. 30	(P)	Control module LH (MFI) pos. 30	(P)	
2	High beam, right	(R-W)	High beam, right	(R-W)	
3	Low beam, right	(GN-W)	Low beam, right	(GN-W)	
	Beam width control	(BN-GN)	Beam width control	(BN)	
4	Headlight wiper motor right (not USA/CDN)	(Y)	Headlight wiper motor right (not USA/CDN)	(Y)	
5	Control module LH (MFI) pos. 35	(BL)	Control module LH (MFI) pos. 35	(BL)	
6	Control module LH (MFI) pos. 34	(GN-OR)	Control module LH (MFI) pos. 34	(GN-OR)	
7	Control module LH (MFI) pos. 20	(Y-SB)	Control module LH (MFI) pos. 20	(Y-SB)	
8	Fog lights, auxiliary lights	(W-SB)	Fog lights, auxiliary lights	(W-SB)	
9	Control module LH (MFI) pos. 9	(BL-Y)	Control module LH (MFI) pos. 9	(BL-Y)	
	Mass air flow (MAF) sensor pos. 5		Mass air flow (MAF) sensor pos. 5		
	IAC valve pos. 1		IAC valve pos. 1		
	PTC resistor pos. 1		PTC resistor pos. 1		
10	Control module LH (MFI) pos. 4	(Y-BN)	Control module LH (MFI) pos. 4	(Y-BN)	
11	Control module LH (MFI) pos. 12	(GN-GR)	Control module LH (MFI) pos. 12	(GN-GR)	
12	Turn signal right	(BL-GN)	Turn signal right	(BL-GN)	
13	Parking light right	(GR)	Parking light right	(GR)	
14	Control module LH (MFI) pos. 22	(BL-P)	Control module LH (MFI) pos. 22	(BL-P)	
15	Control module LH (MFI) pos. 1	(Y-GR)	Control module LH (MFI) pos. 1	(Y-GR)	
16			Engine coolant level sensor	(Y)	
17	Headlight wiper motor right (not USA/CDN)	(BL-R)	Headlight wiper motor right (not USA/CDN)	(BL-R)	
18	Pressure sensor, A/C	(GN-Y)	Pressure sensor, A/C	(GN-Y)	
19	Control module LH (MFI) pos. 21	(R)	Control module LH (MFI) pos. 21	(R)	
20	Beam width control	(GR-R)	Beam width control	(GR-R)	
21	Washer fluid level sensor	(BL-W)	Washer fluid level sensor	(BL-W)	
22	Control module LH (MFI) pos. 15	(W)	Control module LH (MFI) pos. 23	(W)	
23	Washer motor, rear	(BL-Y)	Washer motor, rear	(BL-Y)	
24					
25	Control module LH (MFI) pos. 28	(R-SB)			
26					
27	Warning light, front door right	(BL-SB)	Warning light, front door right	(BL-SB)	
	Warning light, rear door right		Warning light, rear door right		
28	Warning light, front door right	(W-SB)	Warning light, front door right	(W-SB)	
29	Warning lights, rear door light	(GN-R)	Warning lights, rear door light	(GN-R)	
	Vanity mirror light, right		Vanity mirror light, right		
30	Turn signal side repeater	(BL-GN)	Turn signal side repeater	(BL-GN)	
31	Rear loudspeaker +	(Y-BN)	Rear loudspeaker +	(Y-SB)	
32	Rear loudspeaker -	(GN-BN)	Rear loudspeaker -	(R-SB) (GN-SB)	
33					
34					
35					
36	Ground speedometer	(BN-SB)			
37	Ground connector right A-post	(SB)	Ground connector right A-post	(SB)	
38					
39					
40					
41					
42	Power window lift rear, right	(P)	Power window lift rear, right	(P)	
43					
44					
45					
46					
47					
48	Central locking rear door left, pos. 1	(R-W)	Central locking rear door left, pos. 1	(R-W)	
49	Central locking rear door left, pos. 2	(BL-R)	Central locking rear door left, pos. 2	(BL-R)	
50					
51					
52	Switch, power window lift pos. 3, right rear	(BN)	Switch, power window lift pos. 3, right rear	(BN)	
53	Switch, power window lift pos. 5, right rear	(Y)	Switch, power window lift pos. 5, right rear	(Y)	

Connector in engine compartment at left suspension tower



B230GT

1	Engine coolant temperature (ECT) sensor +	(Y-W)	C51
2	Oil pressure sensor	(SB)	
3	Ground EZK Distributor Ignition (DI) pos. 20	(BN)	
4	Generator D +	(R)	
5	Starter motor 50	(BL-GN)	
6	Throttle position (TP) switch pos. 1 for EZK CM pos. 7	(OR)	
7	Temperature sensor EZK pos. 2	(GR)	
8	ECT sensor -	(BN-GR)	

B204FT

1	Engine coolant temperature (ECT) sensor +	(Y-W)	C51
2	Oil pressure sensor	(SB)	
3	Ground EZK Distributor Ignition (DI) pos. 20	(BN)	
4	Generator D +	(R)	
5	Starter motor 50	(BL-GN)	
6	Throttle position (TP) switch pos. 1 for EZK CM pos. 7	(OR)	
7	Temperature sensor EZK pos. 2	(R-SB)	
8	Engine coolant temperature (ECT) sensor -	(BN-GR)	

1	Relay, engine cooling fan pos. B2	(BL-SB)	C50
2	Ground, power stage EZK (DI)	(SB)	
3			
4	Ballast resistor	(GR)	
5	Control module EZK (DI) pos. 8	(Y)	
6			
7			
8	Relay, engine cooling fan pos. B1	(GN-W)	

1	LH, pos. 28		C50
	EGTC, sensor pos. 1	(GR-SB)	
2	Ground, power stage EZK (DI)	(SB)	
3	Ground connector, engine signal ground	(BN)	
4	Control module TCU pos. 7 to TP sensor pos. 1	(P)	
5	Control module TCU pos. 24 to TP sensor pos. 2	(P-SB)	
6	Control module TCU pos. 8 to TP sensor pos. 3	(P-W)	
7	Control module EZ-K (DI) pos. 8	(Y)	
8	Turbo control valve pos. 1	(BL-GR)	
	EGTC-sensor pos. 3		

1	
2	
3	
4	

1	Injector cyl. 1	(GN)	C132
2	Injector cyl. 2	(GN)	
3	Injector cyl. 3	(GN)	
4	Injector cyl. 4	(GN)	
5	Turbo control valve pos. 2	(BN-GN)	
6	Control module EZ-K (DI) pos. 13 (knock sensor)	(GN)	
7	Control module EZ-K (DI) pos. 12 (knock sensor)	(SB)	
8			

D24TIC

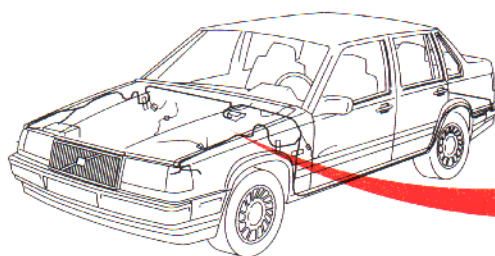
1	Engine coolant temperature (ECT) sensor +	(Y-W)	C50
2	Oil pressure sensor	(SB)	
3	Fuel valve	(BL-GN)	
	Microswitch, Idle EGR, pos. 1	(BL-GN)	
	Timer relay EGR pos. A4 (Austria)	(BL-GN)	
4	Generator D+	(R)	
5	Starter motor 50	(BL-GN)	
6	Temperature sensor	(BN-SB)	
7	Generator W	(R-W)	
8	Engine coolant temperature (ECT) sensor -	(BN-GR)	

1	Control module TCU pos. 11	(BL-SB)	C71
2	Solenoid coupling A/C	(GN-R)	
3	Blocking relay /AC pos. 4	(GN-SB)	

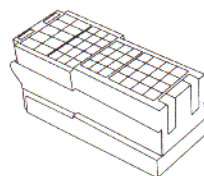
1	
2	
3	
4	
5	
6	
7	
8	

1		C71
2	Pressure sensor pos. 1	(Y-R)
3	A/C-compressor pos. 2	(GN-Y)

Connector in engine compartment at left suspension tower



C131

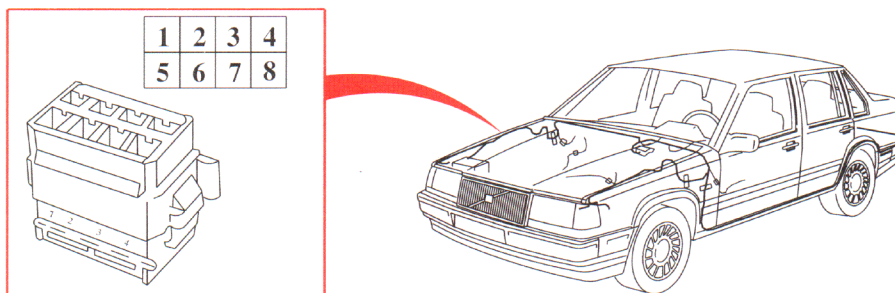


1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	
30	31	32	33	
34	35	36	37	
38	39	40	41	
42	43	44	45	
46	47	48	49	
50	51	52	53	

B6304F

1	Heated oxygen sensor (HO2S) pos. 1	(P)
2	Engine coolant temperature (ECT) sensor, pos. 1	(Y-W)
3	Engine coolant temperature (ECT) sensor, pos. 2	(BN-GR)
4	Oil pressure sensor	(SB)
5	Generator D+	(R)
6		
7		
8	Engine coolant temperature (ECT) sensor pos. 2	(GR-W)
9	Engine coolant temperature (ECT) sensor pos. 1	(GN-GR)
10	Idle air control (IAC) valve pos. 1	(GR-R)
11	Start inhibitor switch AW30-40/43, pos. 3	(P)
12	Idle air control (IAC) valve pos. 3	(OR-SB)
13	Solenoid A/C compressor	(GN-Y) (GN)
14	Ground connector (signal ground)	(BN)
15	Mass air flow (MAF) sensor pos. 1 (ground connector)	(BN)
16	Throttle position (TP) sensor pos. 1	(GN-GR)
17	Throttle position (TP) sensor pos. 3	(VO)
18	Power stage Motronic (MFI) pos. 5	(BL-W)
19	Power stage I Motronic (MFI) pos. 7	(R-W)
20	Power stage II Motronic (MFI) pos. 2	(BL)
21	Power stage II Motronic (MFI) pos. 5	(R)
22	Power stage II Motronic (MFI) pos. 7	(SB)
23	Throttle position (TP) sensor pos. 2	(P-SB)
24	Injectors	(P-W)
25	Ground connector	(SB)
26	Relay ignition coil pos. 1	(BL)
27	Knock sensor (KS) 1 pos. 1	(GR)
28	Knock sensor (KS) 1 pos. 2	(GN-GR)
29	Knock sensor (KS) 2 pos. 1	(BN-OR)
30	Backup (reversing) light switch AW30-40/43	(GR-SB)
31	Relay injectors pos. 4	(GN-R)
32	EGR-temp. sensor pos. 2 (Only California)	(Y-SB)
33	Knock sensor (KS) 2 pos. 2	(GN-GR)
34	Injectors	(BN-GR)
35	Backup (reversing) light switch AW30-40/43	(BL-SB)
36	EGR-temp. sensor pos. 1 (Only California)	(GN-GR)
37	Power stage I Motronic (MFI) pos. 2	(W-SB)
38	Heated oxygen sensor (HO2S)	(GN)
39	Relay injectors pos. 1	(SB)
40	Engine speed (RPM) sensor AW30-40/43 pos. 2	(GN-SB)
41	Engine speed (RPM) sensor AW30-40/43 pos. 1	(W-SB)
42	Heated oxygen sensor (HO2S) (shield)	(SB)
43	Lock-up solenoid AW30-40/43	(Y)
44	Oil temp. sensor AW30-40/43	(R-W)
45	Oil temp. sensor AW30-40/43	(VO-W)
46	System pressure solenoid AW30-40/43	(P)
47	System pressure solenoid AW30-40/43	(BN-SB)
48	Gearchange solenoid 1 AW30-40/43	(GN)
49	Gearchange solenoid 2 AW30-40/43	(BL-P)
50	El. contr. gear selector AW30-40/43 pos. A	(BL-GR)
51	El. contr. gear selector AW30-40/43 pos. B	(BN-W)
52	El. contr. gear selector AW30-40/43 pos. C	(GN-BN)
53	El. contr. gear selector AW30-40/43 pos. PA	(GN-W)

Connector in engine compartment at right suspension tower



C54

B230GT

1	Idle air control (IAC) valve pos. 2	(W-SB)
2	A/C compressor	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Temperature sensor LH (MFI) pos. 1	(GR-W)
5		
6	Ground LH (MFI) pos. 17 (power ground)	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 to LH CM pos. 2	(OR)

C55

1	Control module LH (MFI) pos. 28 from high power system (accessory)	(R-SB)
2	Control module LH (MFI) pos. 25	(Y)
3	Control module LH (MFI) pos. 10	(GN-W)
4	Control module LH (MFI) pos. 11	(BL-SB)
5	Ground mass air flow (MAF) sensor pos. 1	(BN)
6		
7	Injectors	(GR)
8	Ground LH (MFI) pos. 5 (signal ground)	(BN)
	Bridge connector	

C54

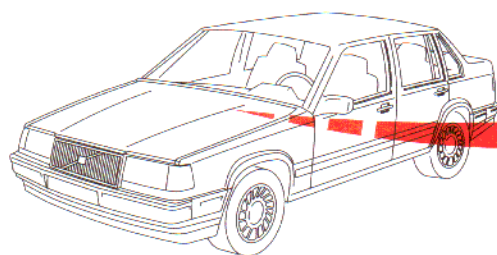
B204FT

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Blocking relay A/C pos. 4	(GN-SB)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Temperature sensor LH (MFI) pos. 1	(GR-W)
5		
6	Ground LH (MFI) pos. 17 (power ground)	(SB)
7	Throttle position (TP) switch pos. 3 from high-power system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 6 to LH CM pos. 2	(OR)

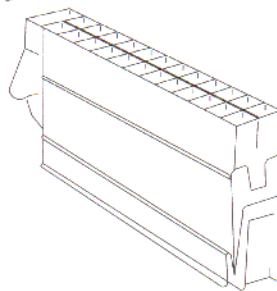
C55

1	Control module LH (MFI) pos. 28	(GR-R)
2	Control module LH (MFI) pos. 25	(Y)
3		
4		
5	Ground mass air flow (MAF) sensor pos. 1	(BN)
6		
7	Injectors	(GR)
8	Ground LH (MFI) pos. 5 (signal ground)	(BN)
	Bridge connector	

Connector console wiring harness - instrument panel harness



C9



2	1
4	3
6	5
8	7
10	9
12	11
14	13
16	15
18	17
20	19
22	21
24	23

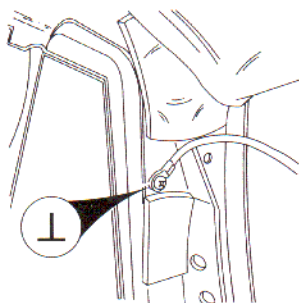
C9

1	Parking brake switch	(BN-W)
2	Lighting, seat heating switch	(BN-SB)
3	Ashtray light	(Y-W)
	Lighting, seat heating switch	(Y-W)
4		
5		
6		
7	Seat belt lock switch, left	(GN)
8	Seat belt lock switch, right	(GN-W)
9	Switch for heated driver's seat	(Y-VO)
10	Switch for heated passenger's seat	(Y-VO)
11	SRS crash sensor pos. 20	(OR-SB)
12	SRS crash sensor pos. 21	(Y-SB)
13	SRS crash sensor pos. 29	(GR-OR)
14	SRS crash sensor pos. 28	(R)
15	Power driver's seat	(OR)
	Heated passenger's seat	(OR)
16	Ground connector, centre console	(SB)
17	Power driver's seat	(W)
	Power passenger's seat	(W)
18	Power seats + supply	(R-SB)
19		
20		
21		
22		
23		
24		

C9 USA/CDN

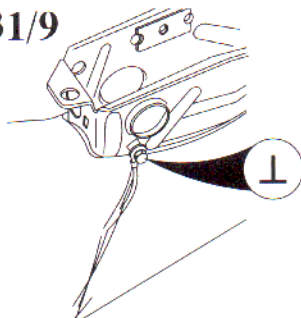
1	Parking brake switch	(BN-W)
2	Lighting, seat heating switch	(BN-SB)
3	Ashtray light	(Y-W)
	Lighting, seat heating switch	(Y-W)
4		
5		
6		
7	Seat belt lock switch, left	(GN)
8	Seat belt lock switch, right	(GN-W)
9	Switch for heated driver's seat	(Y-VO)
10	Switch for heated passenger's seat	(Y-VO)
11	SRS crash sensor pos. 1	(OR-SB)
12	SRS crash sensor pos. 15	(Y-SB)
13	SRS crash sensor pos. 29	(GR-OR)
14	SRS crash sensor pos. 19	(R)
15	Power driver's seat	(OR)
	Heated passenger's seat	(OR)
16	Ground connector, centre console	(SB)
17	Power driver's seat	(W)
	Power passenger's seat	(W)
18	Power seats + supply	(R-SB)
19		
20		
21		
22		
23		
24		

31/5



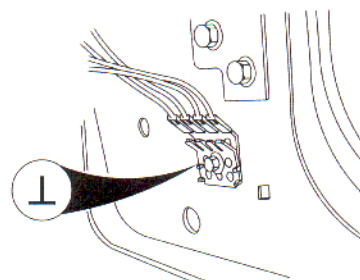
Heated rear window

31/9

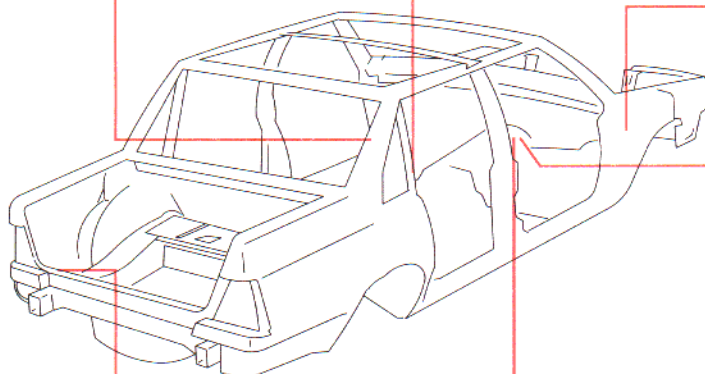


Parking brake switch
Seat belt light
Heated seats

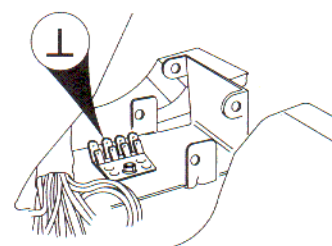
31/10



Heated door mirror, right side
Vanity mirror light, right side
Right turn signal repeater
Instruments
ABS (B6304F/G)
Washer fluid level sensor (B6304F/G)
Cruise control (B6304F/G)

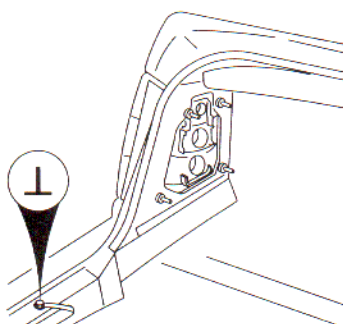


31/14



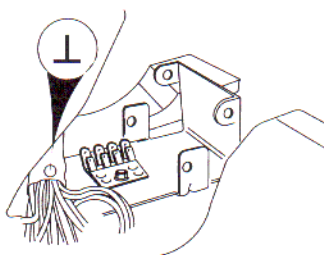
31-track relay unit
Front bulb malfunction indicator
Seat belt reminder
Bypass relay 15I
Intermittent relay, windshield wipers
Headlight relay
Control module, DIM-DIP
Light switch
Ashtray light
Glove compartment light
Foglight relay
Switch for hazard warning lights
Switch for heated rear window
Combined instruments
Intermittent relay, tailgate wiper
Cigar lighter
Overdrive relay
Central locking relay
Power unit ECC
Power sunroof
Crash sensor SRS
Fuel level sensor
Relay, temperature sensor (Japan)
Accessories

31/13

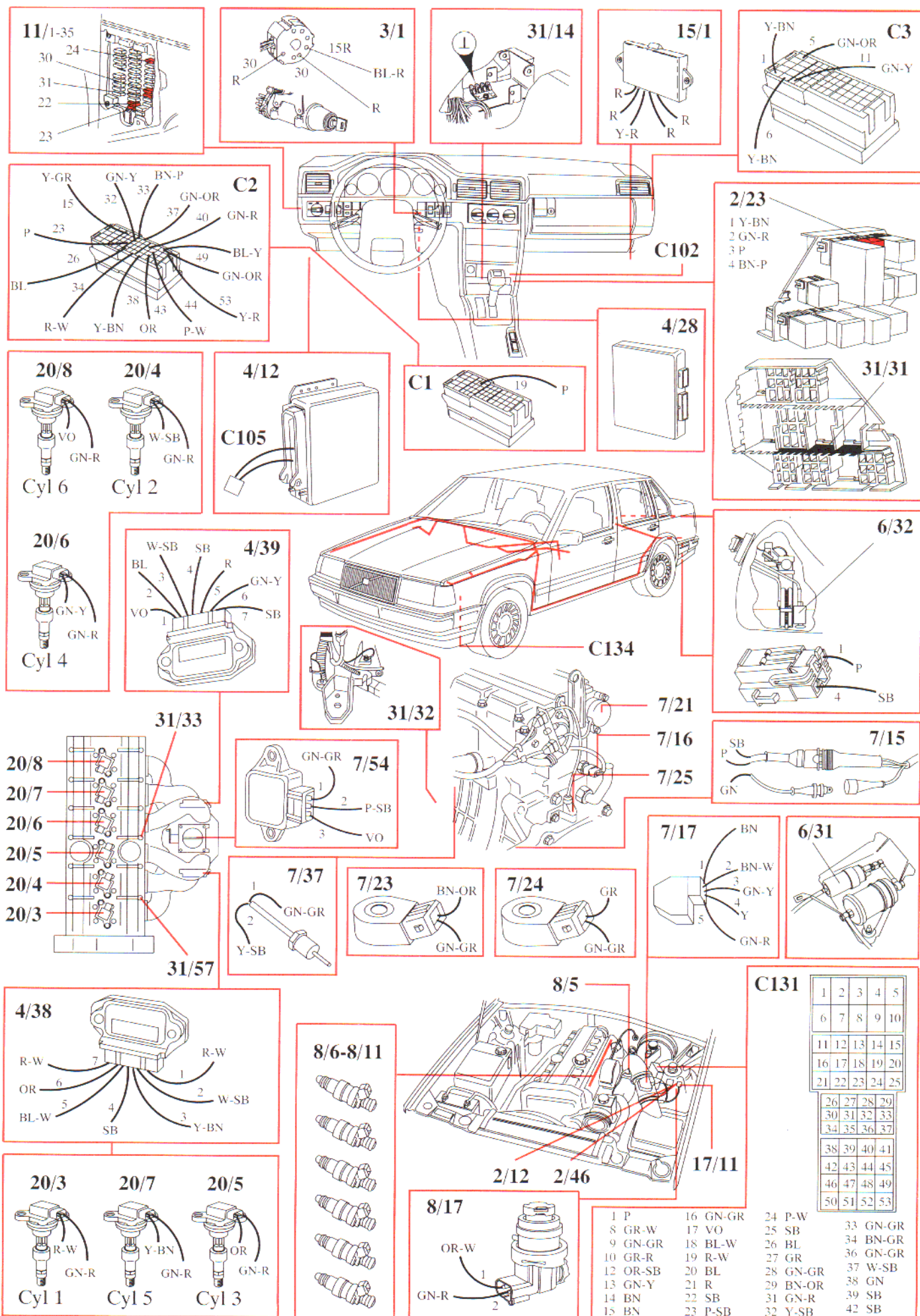


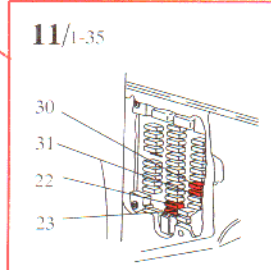
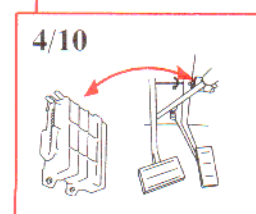
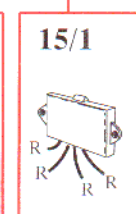
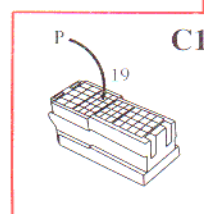
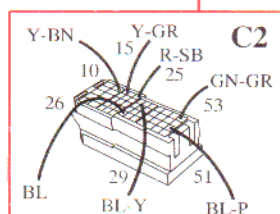
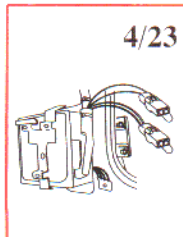
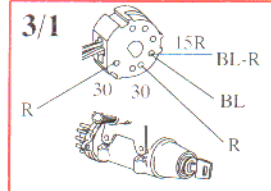
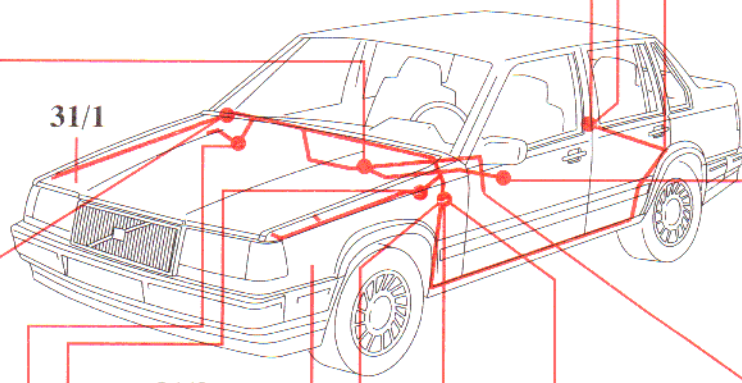
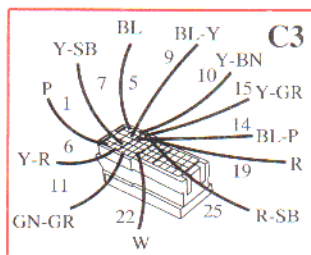
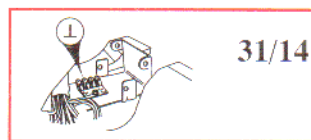
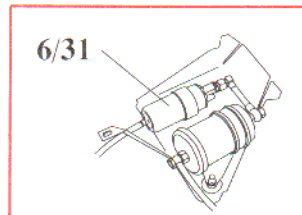
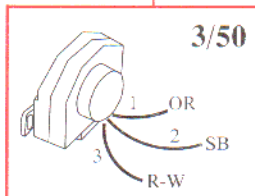
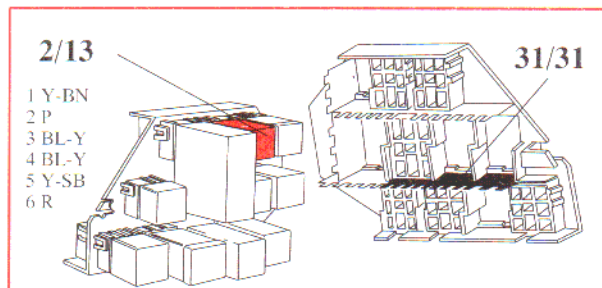
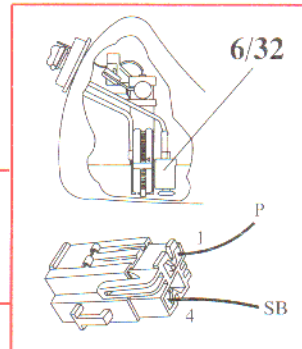
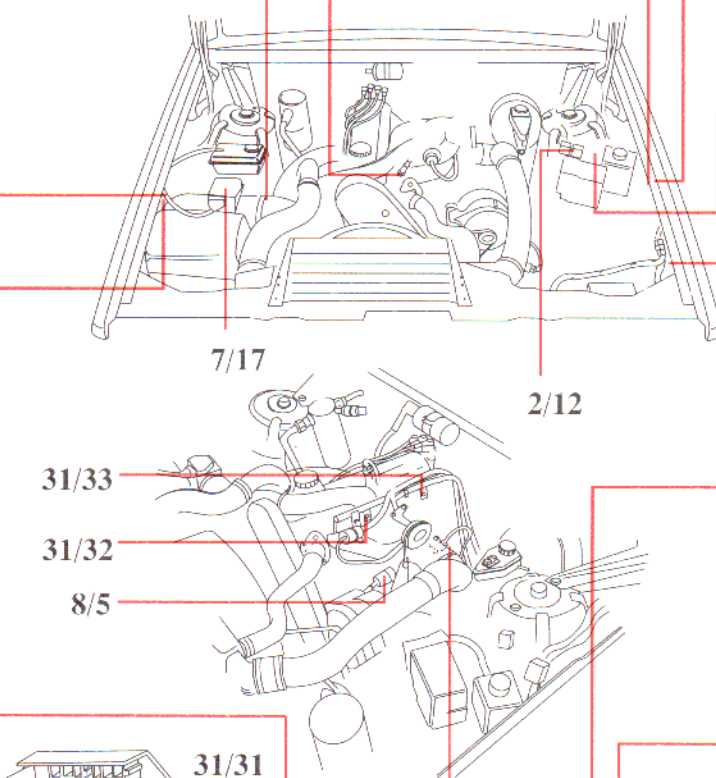
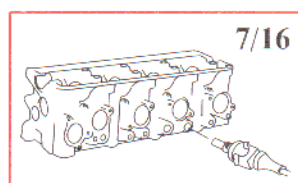
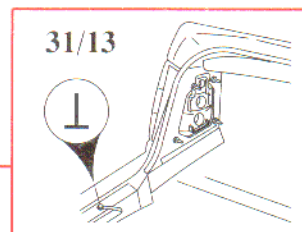
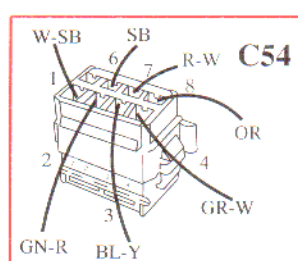
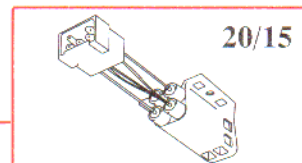
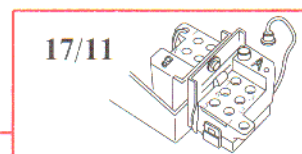
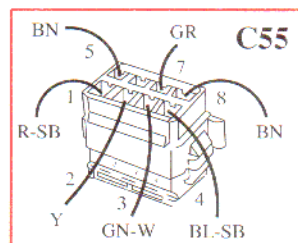
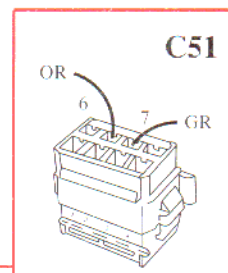
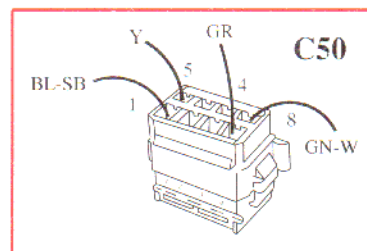
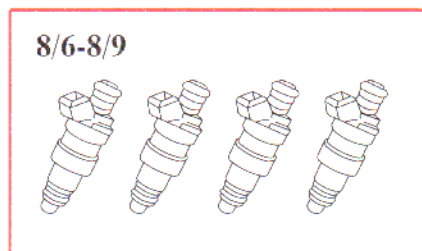
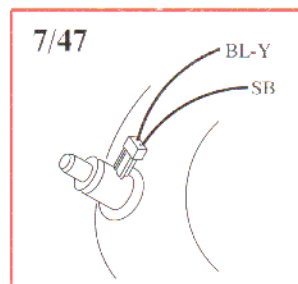
Fuel primer pump
Left tail light (4-door)
Power antenna
Number plate lights
Rear bulb malfunction indicator
Extra brake light
Boot light
Right tail light (4-door)
Interior lights
Reading lamp

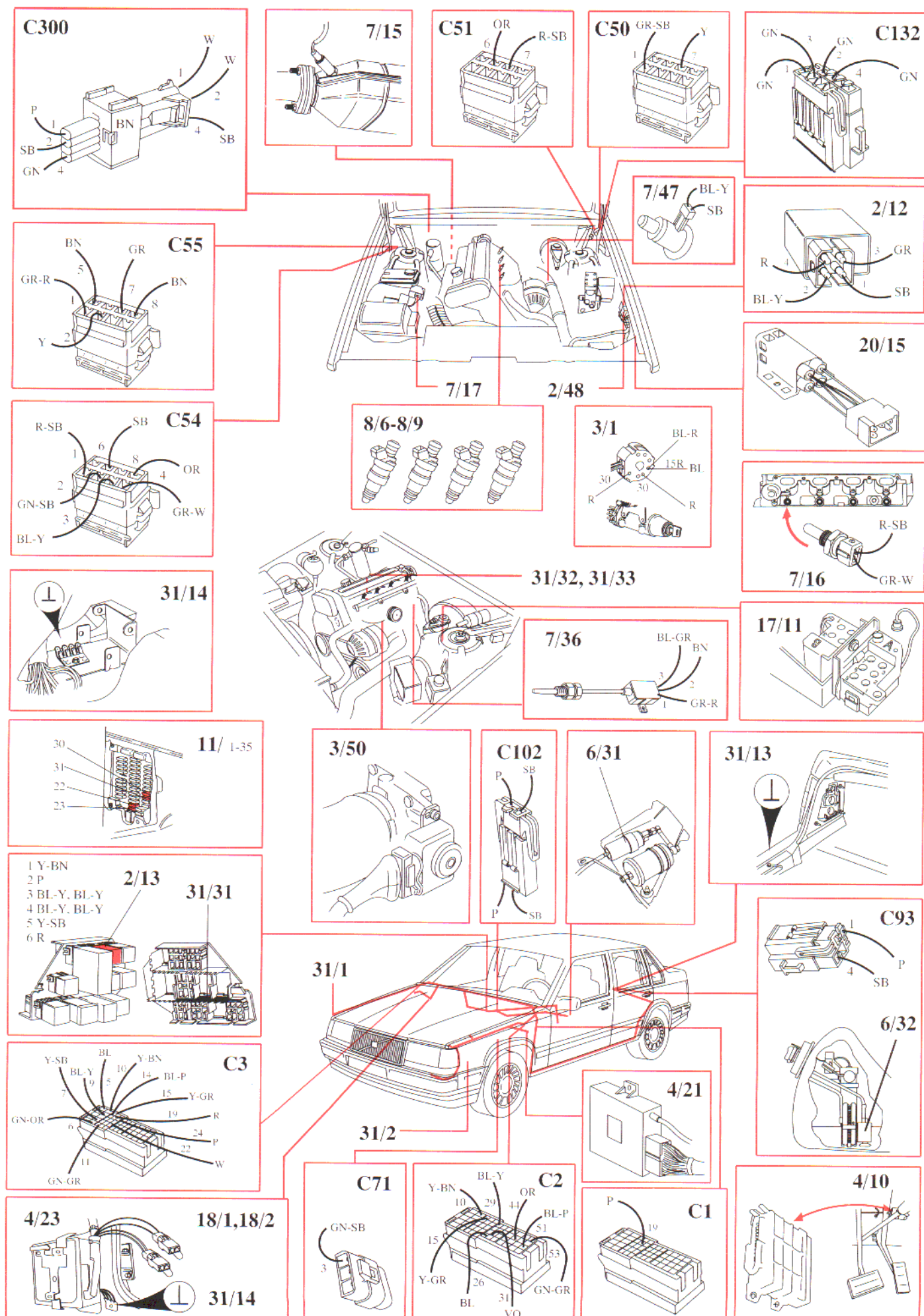
31/18

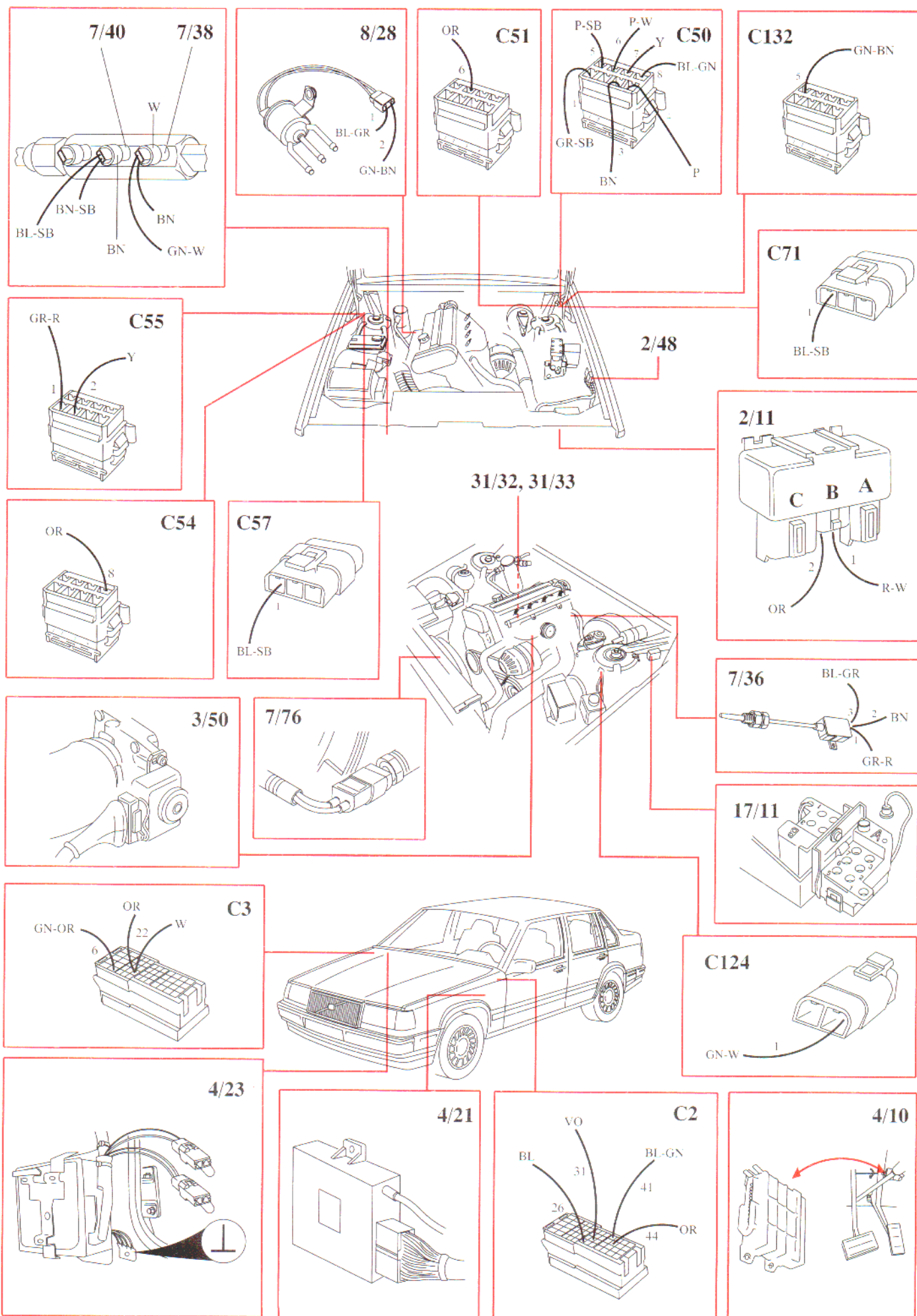


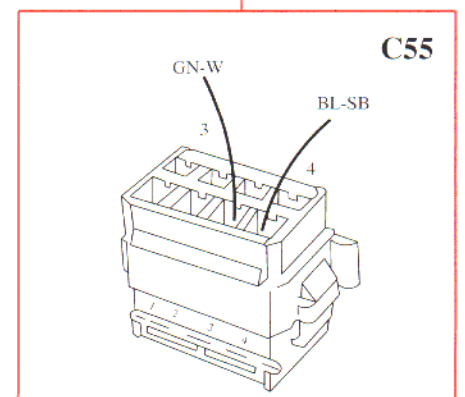
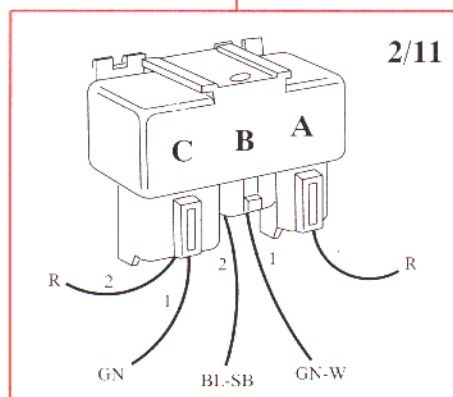
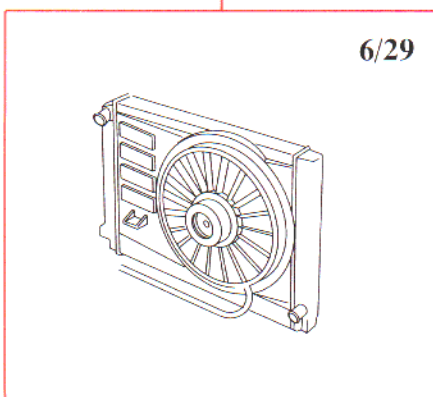
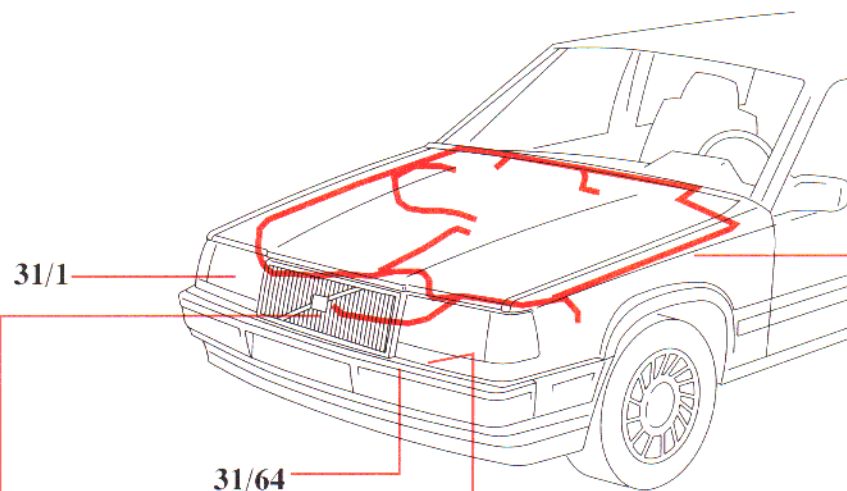
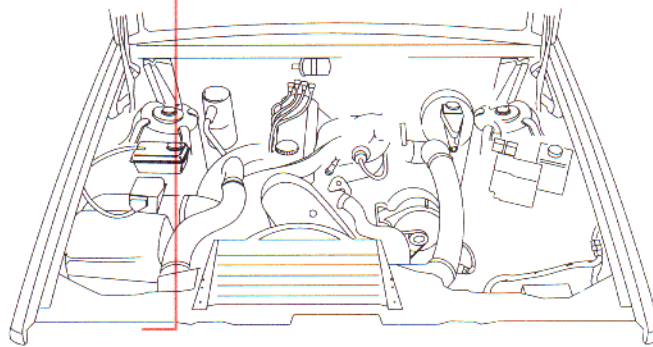
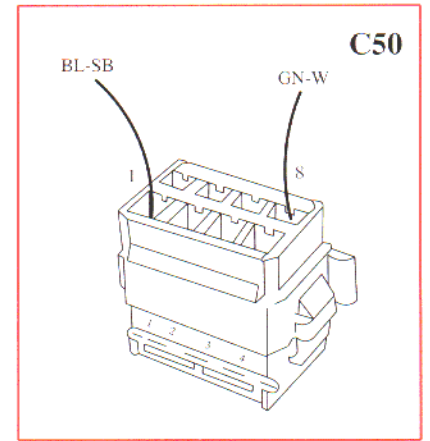
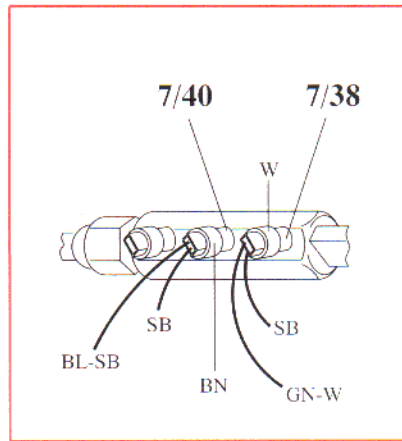
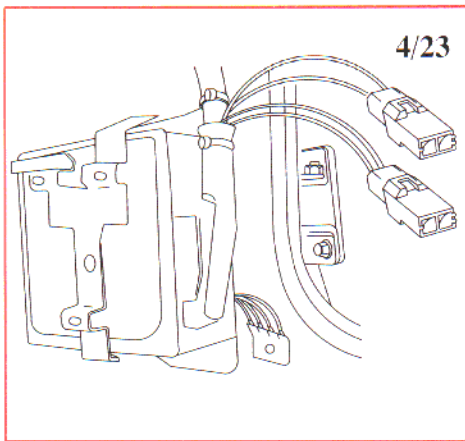
Radio
Amplifier
Power seats

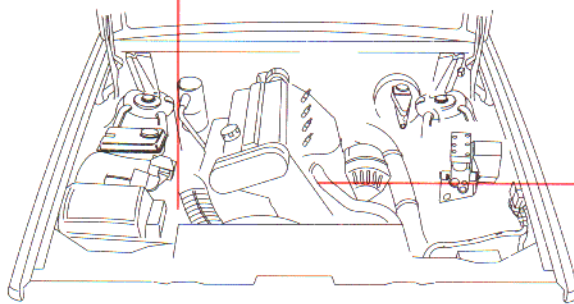
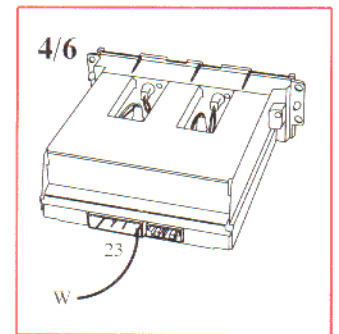
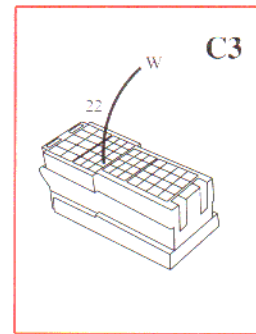
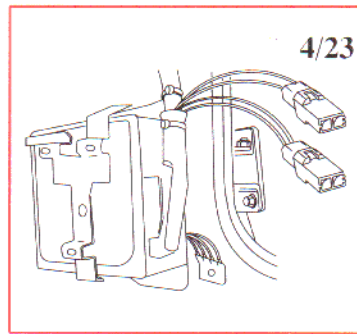
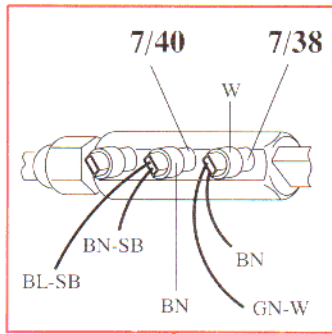




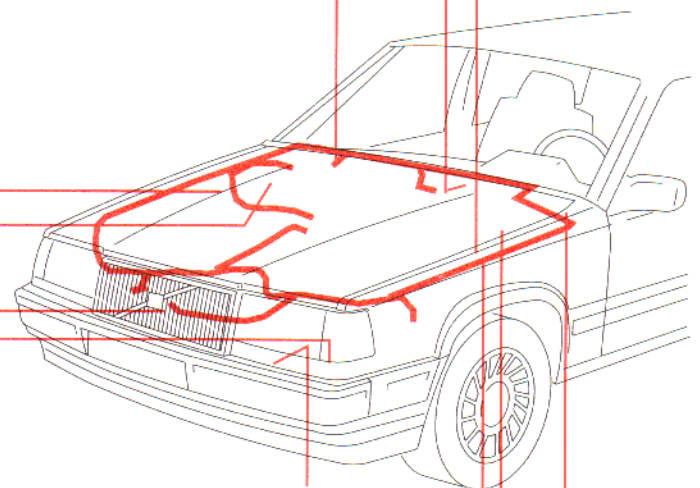
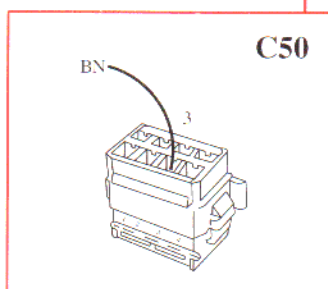
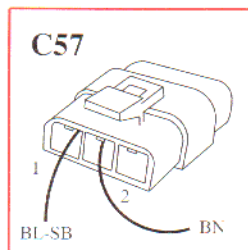
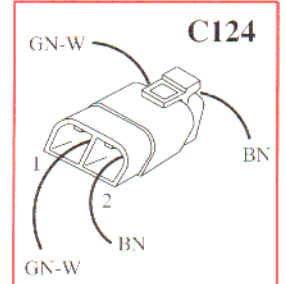




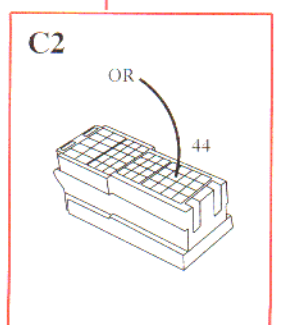
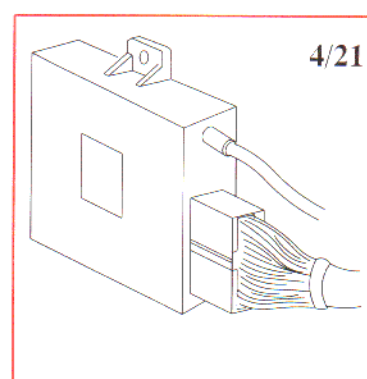
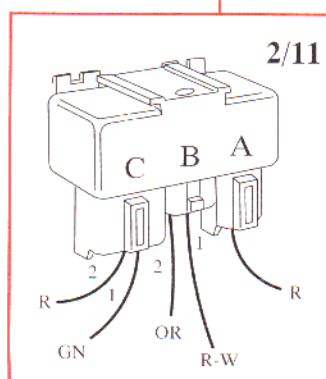
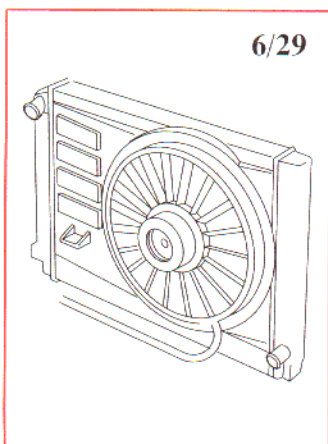
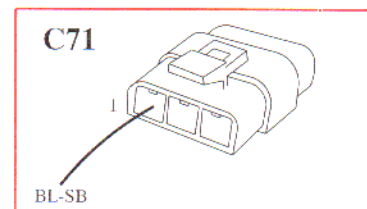


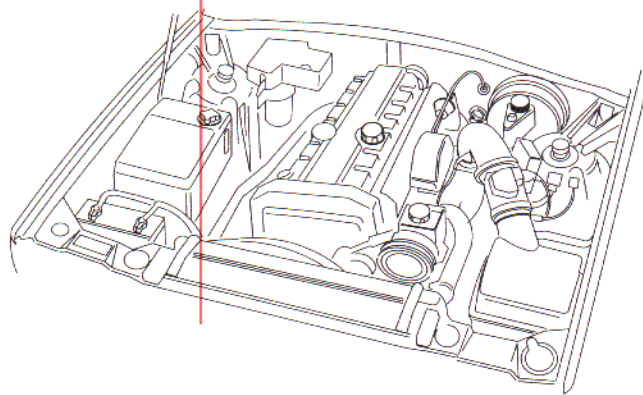
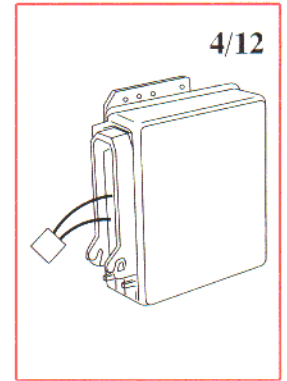
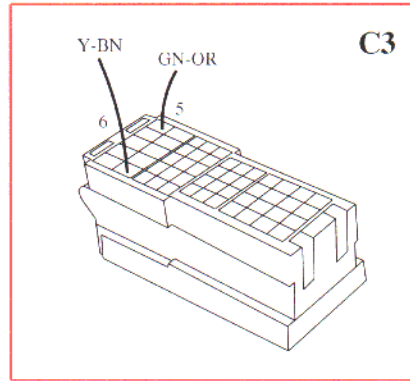
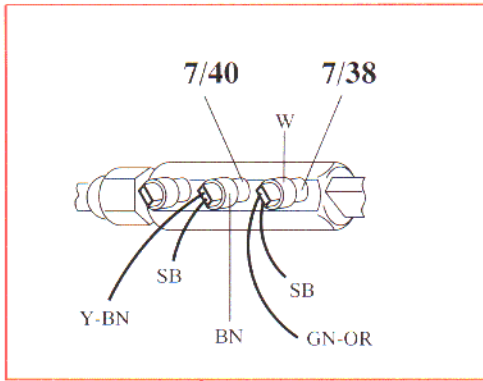


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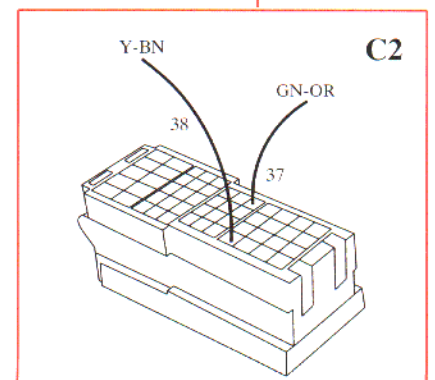
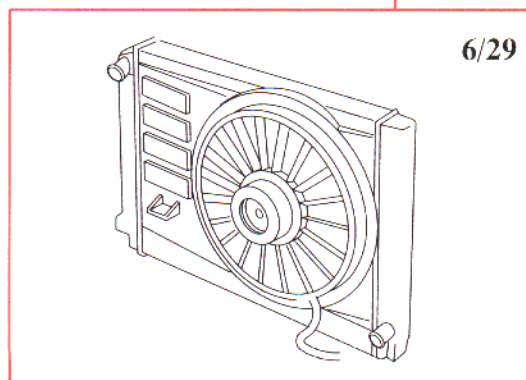
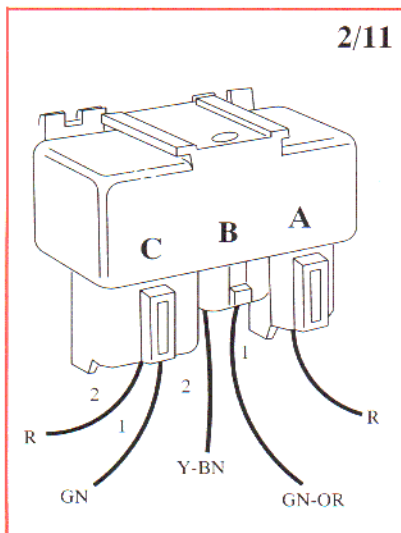
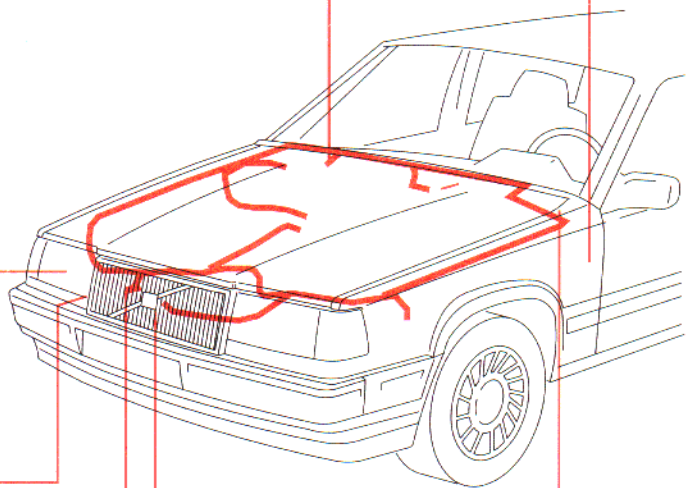
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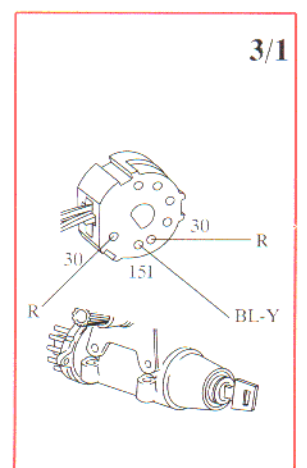
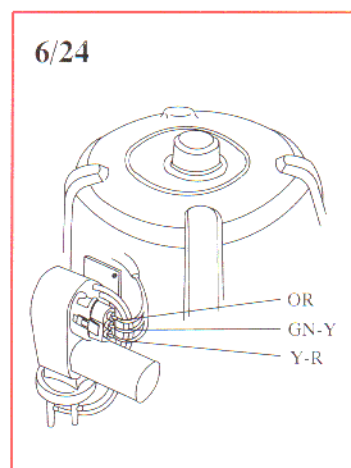
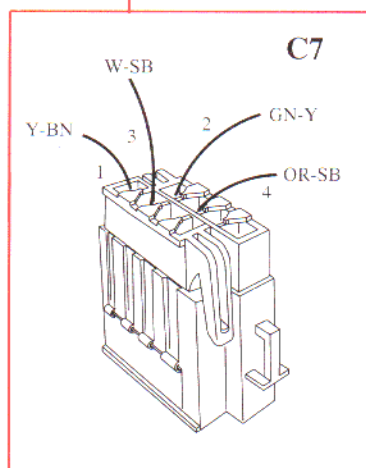
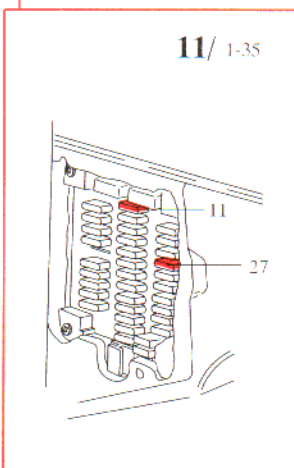
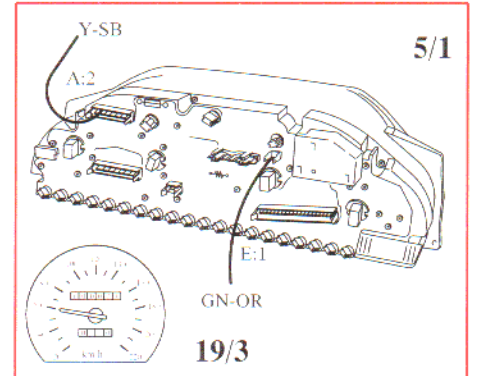
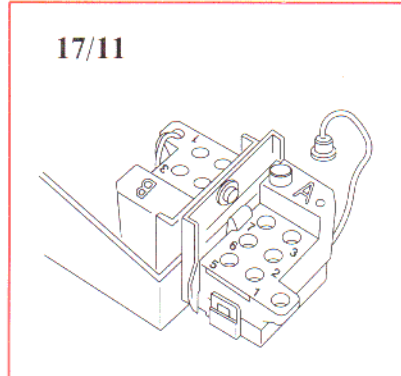
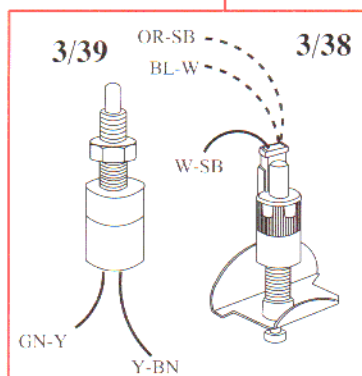
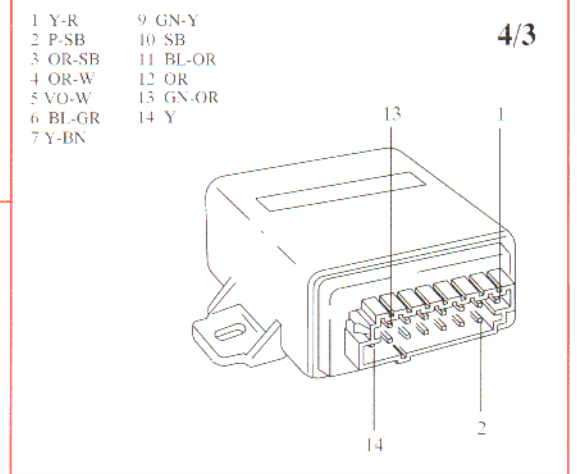
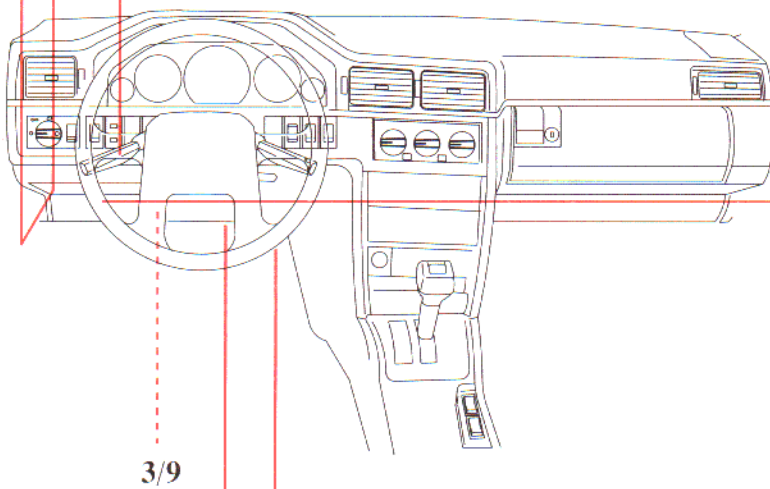
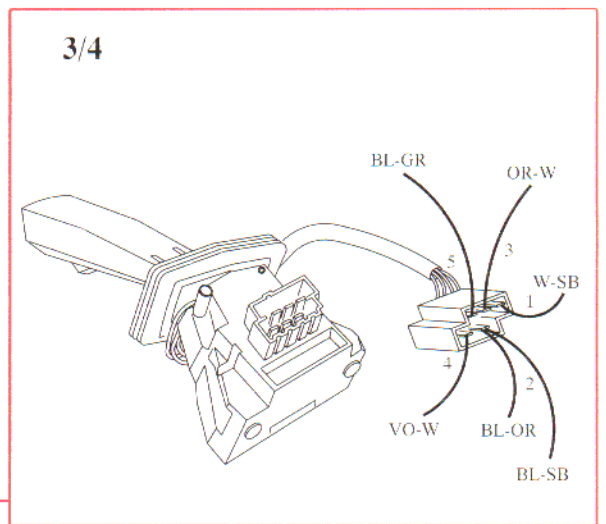
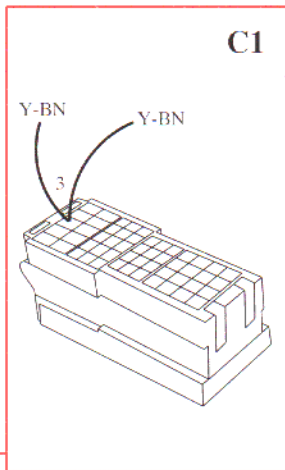
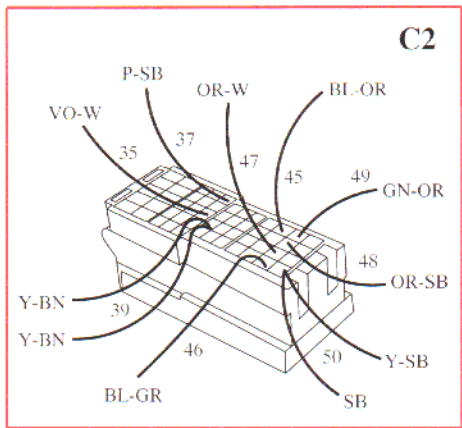


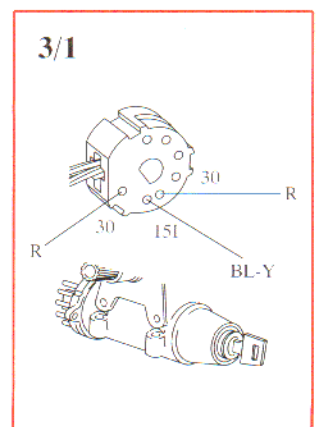
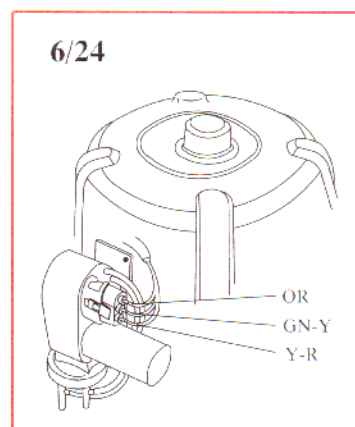
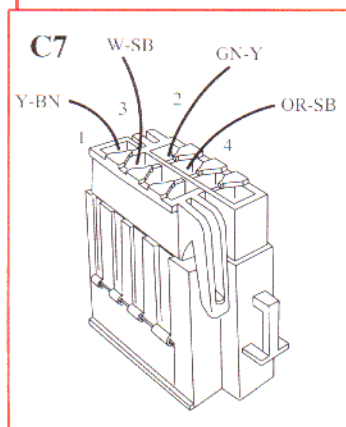
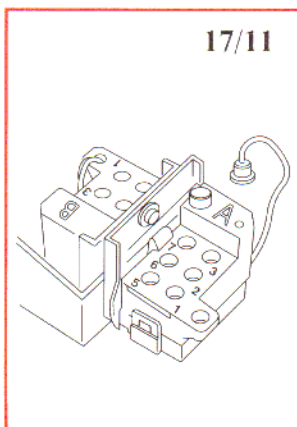
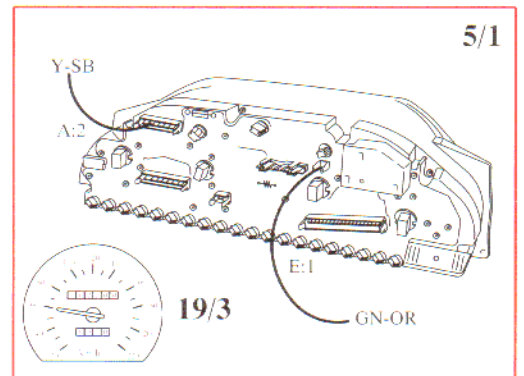
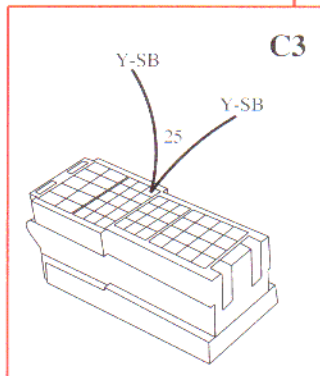
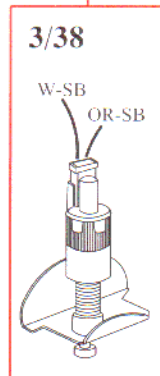
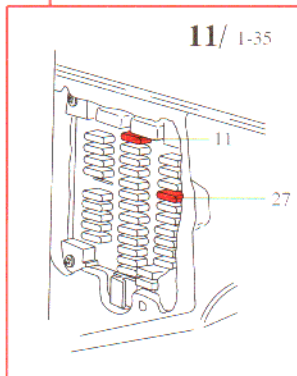
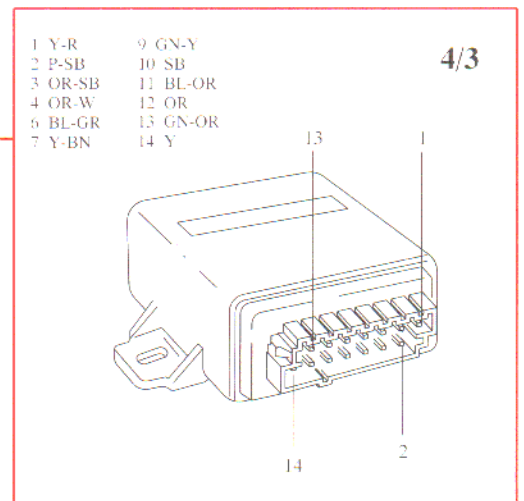
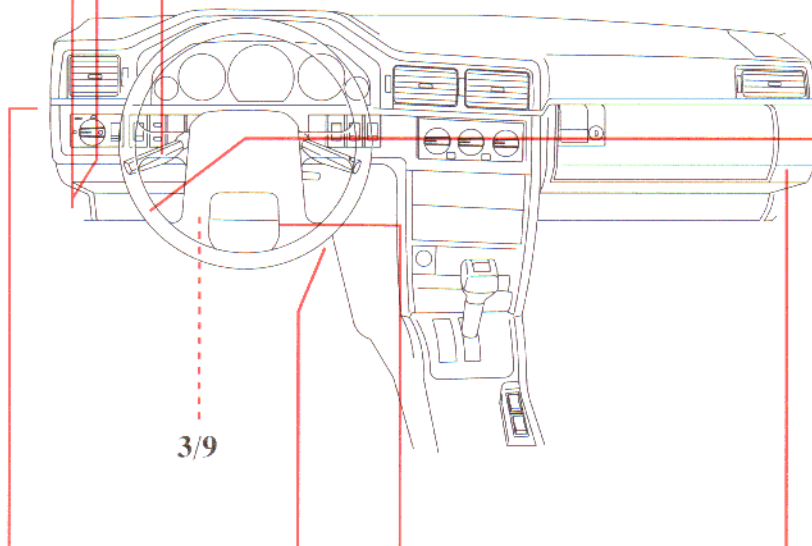
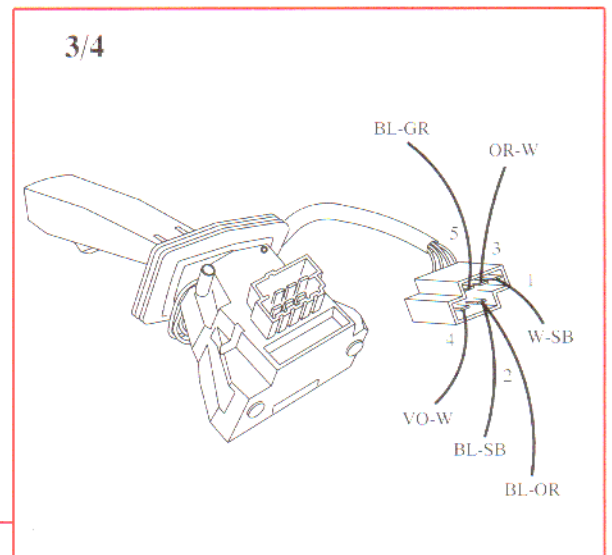
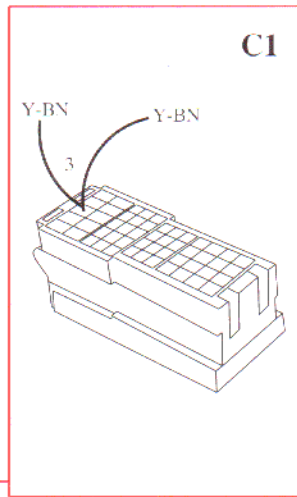
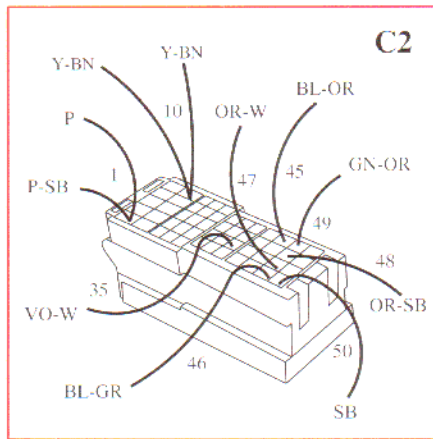


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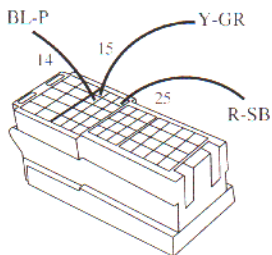
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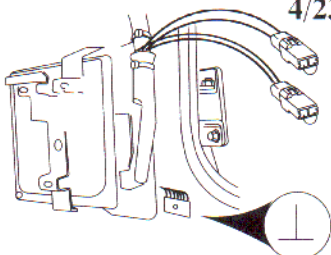




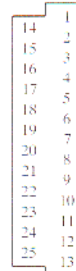
C3



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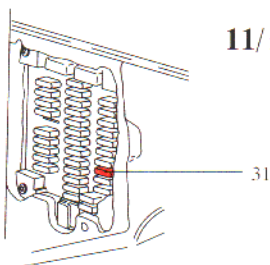


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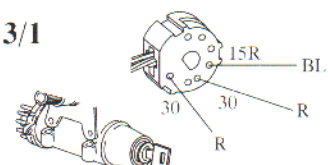


- | | |
|--------|---------|
| 1 Y-R | 14 - |
| 2 GR | 15 - |
| 3 BL-P | 16 GR |
| 4 R-SB | 17 Y-GR |
| 5 Y-BN | 18 - |
| 6 BL | 19 - |
| 7 OR | 20 BN |
| 8 Y | 21 - |
| 9 - | 22 - |
| 10 R | 23 BL |
| 11 SB | 24 - |
| 12 SB | 25 - |
| 13 GN | |

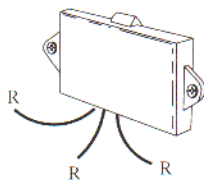
11/1-35



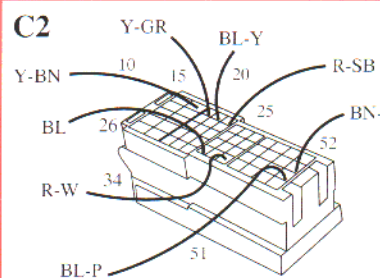
3/1



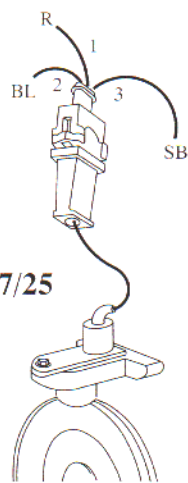
15/1



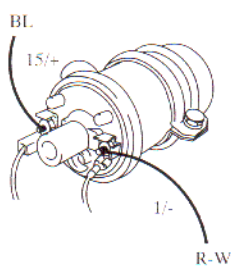
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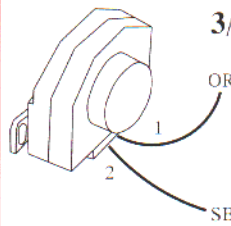
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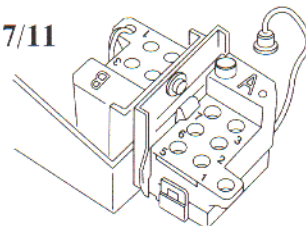
20/1



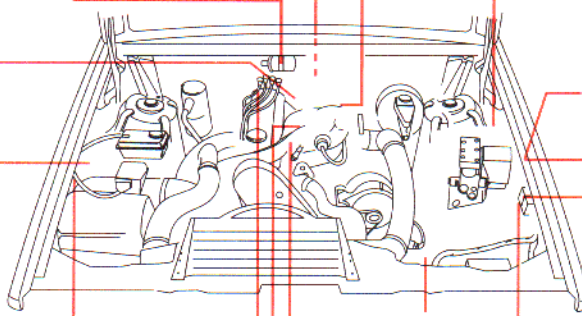
3/50



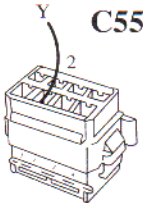
17/11



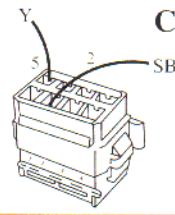
2/13



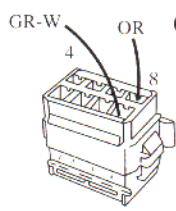
C55



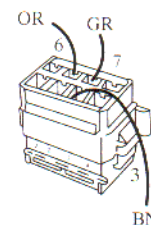
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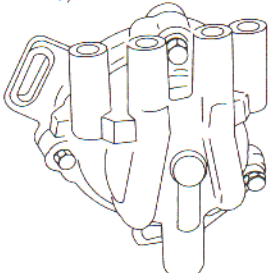
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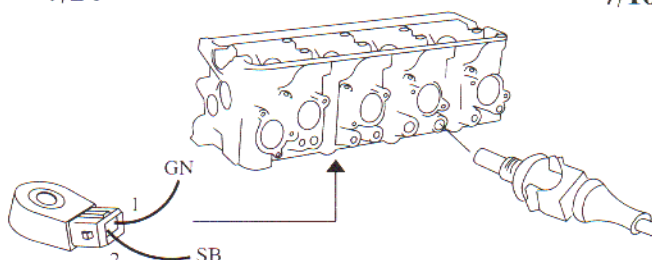
C51



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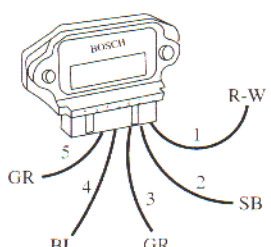


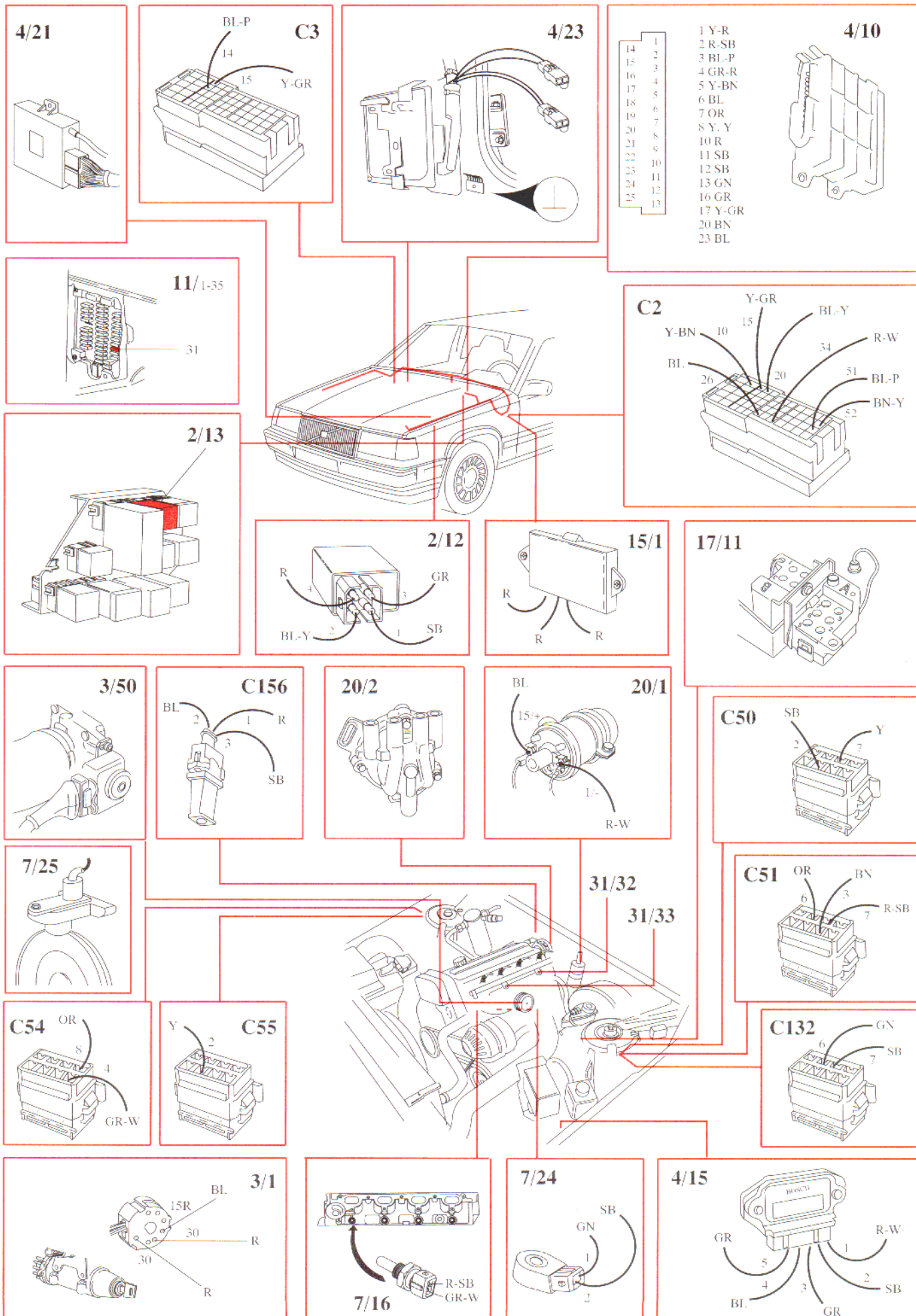
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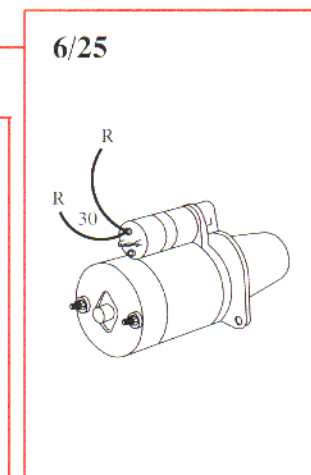
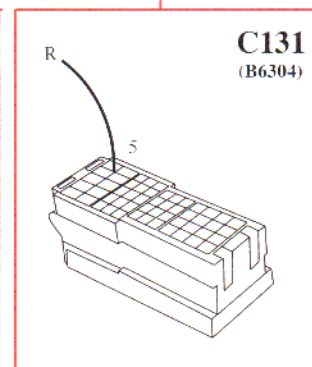
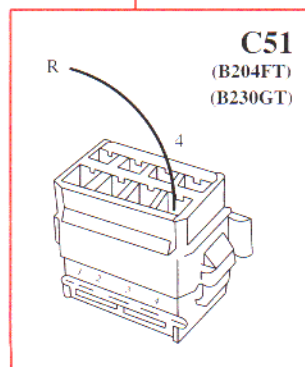
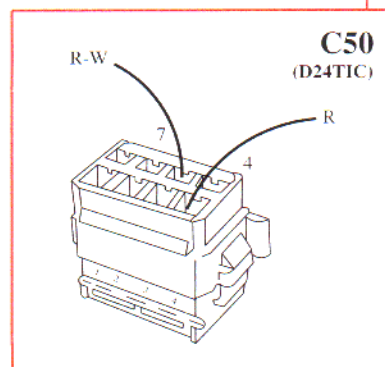
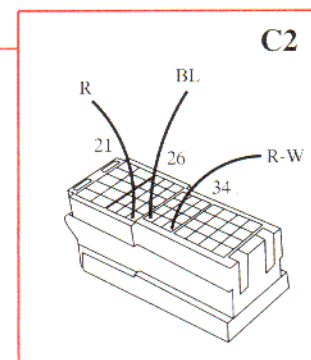
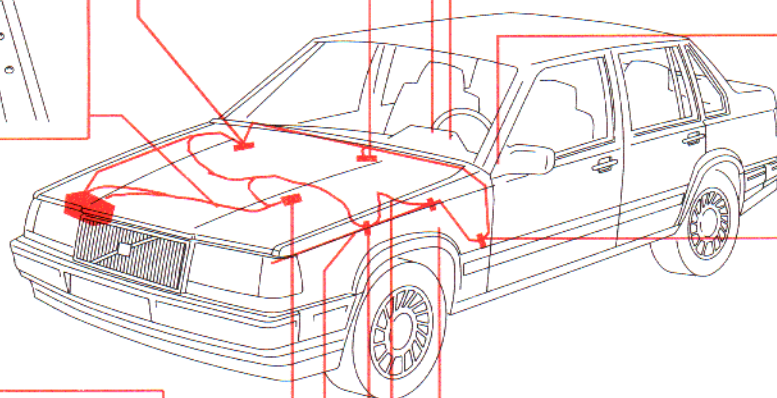
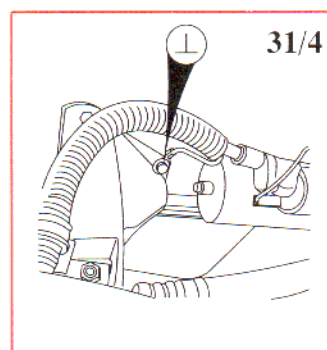
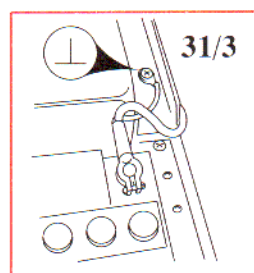
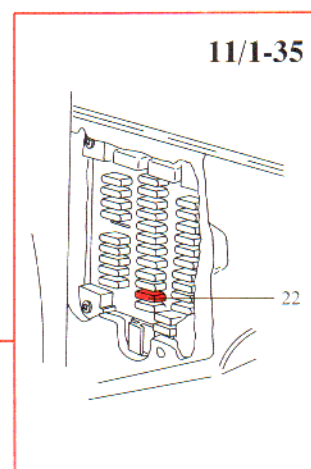
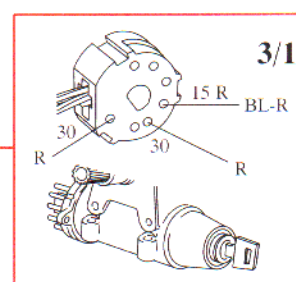
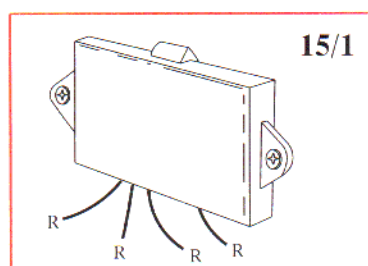
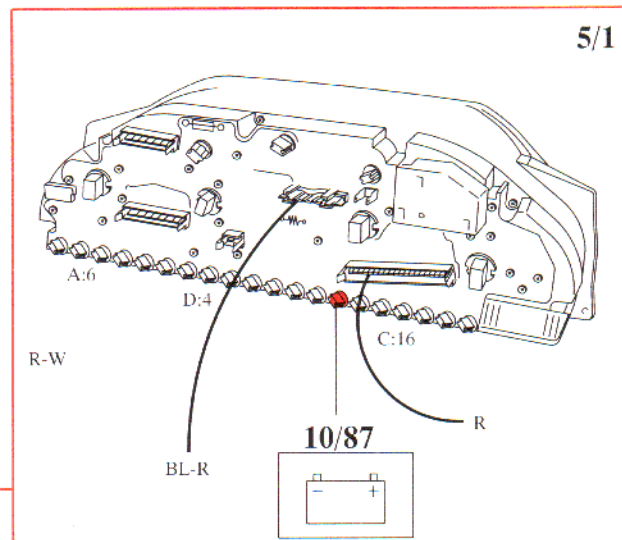
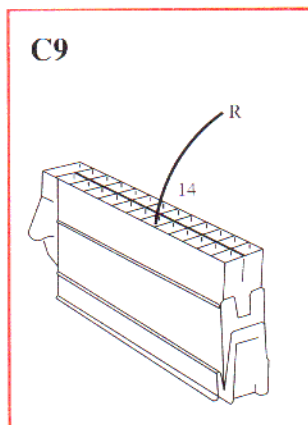
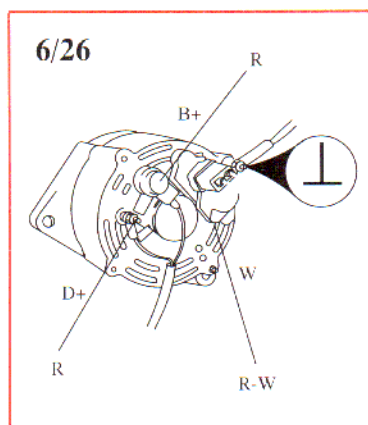


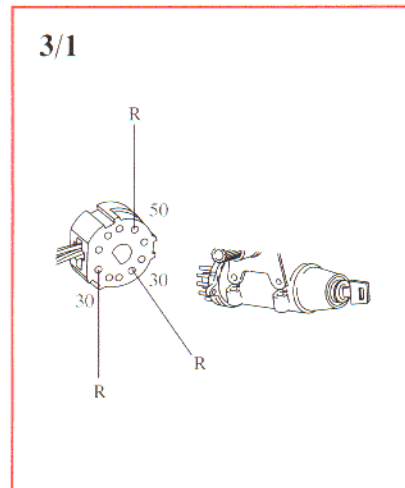
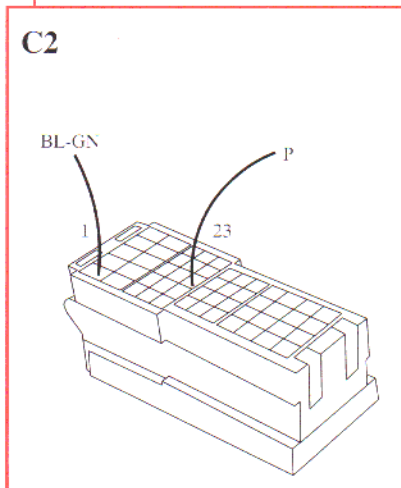
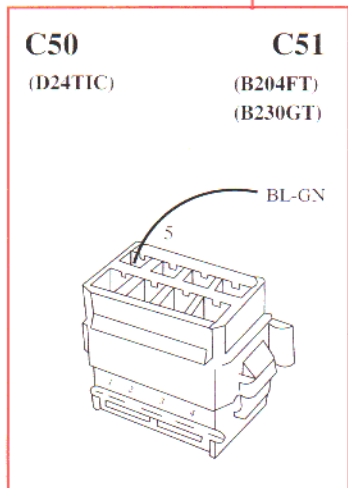
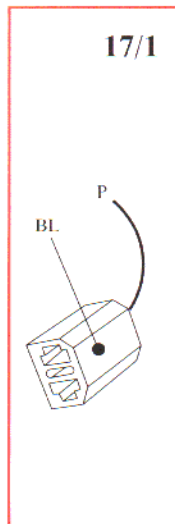
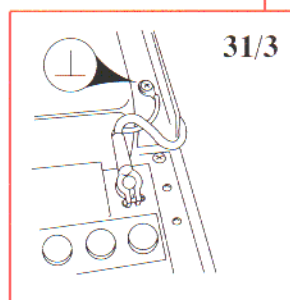
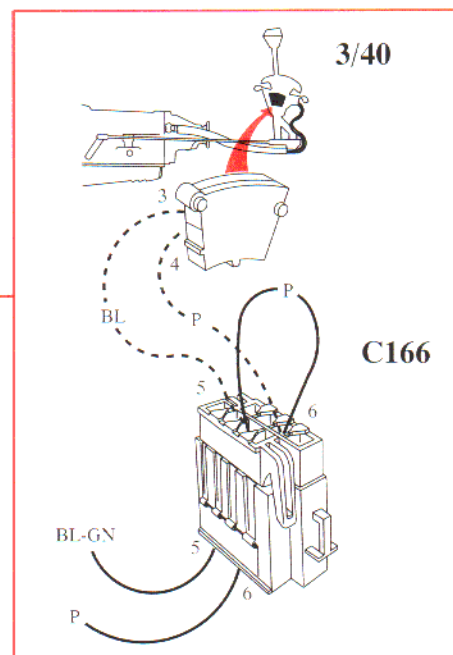
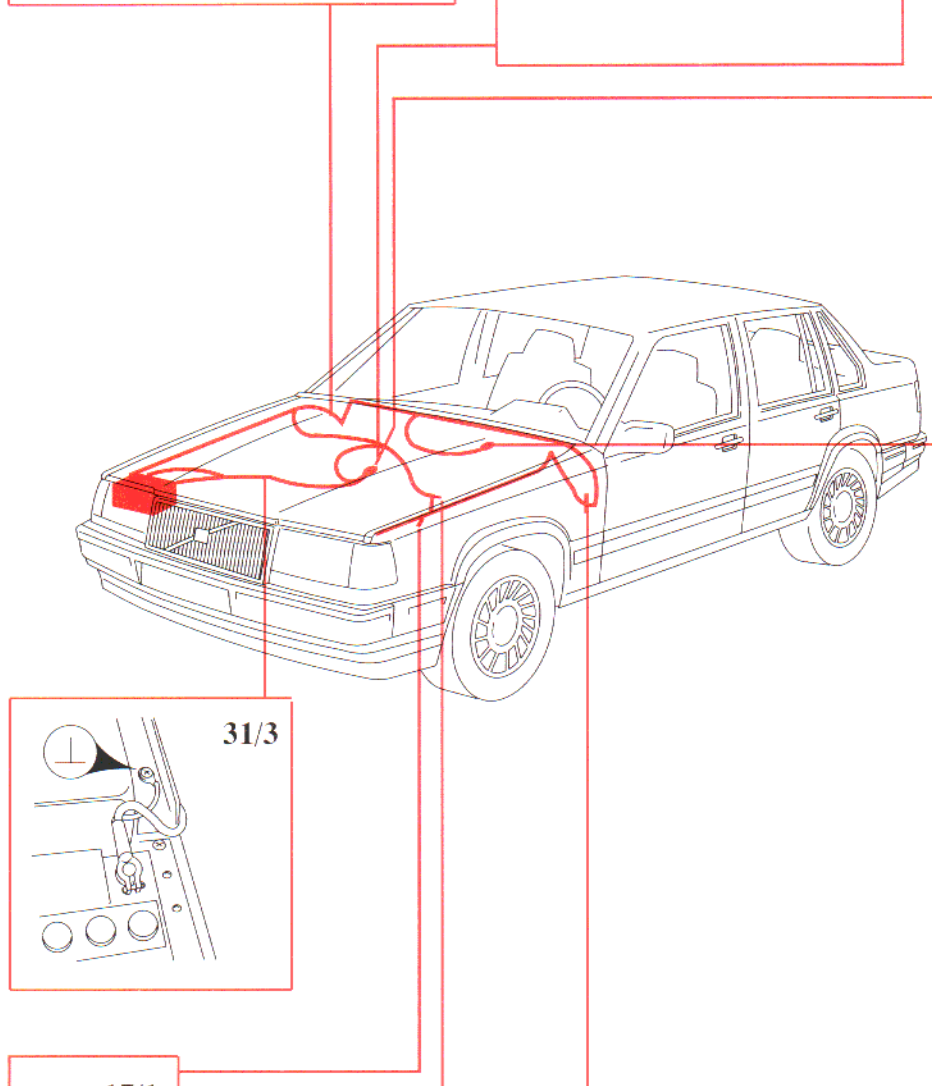
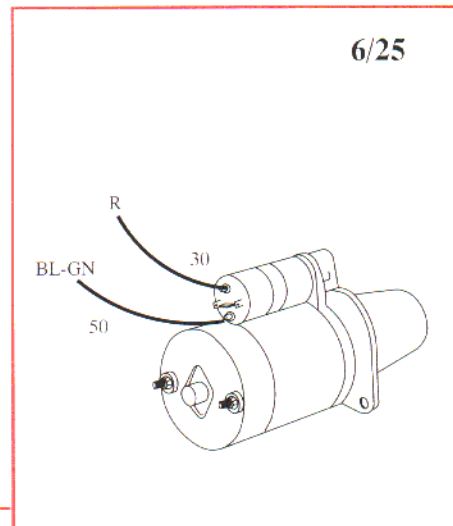
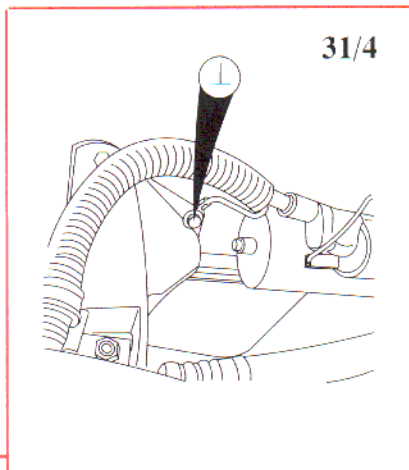
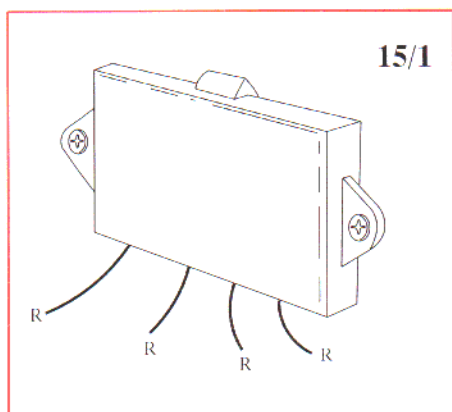
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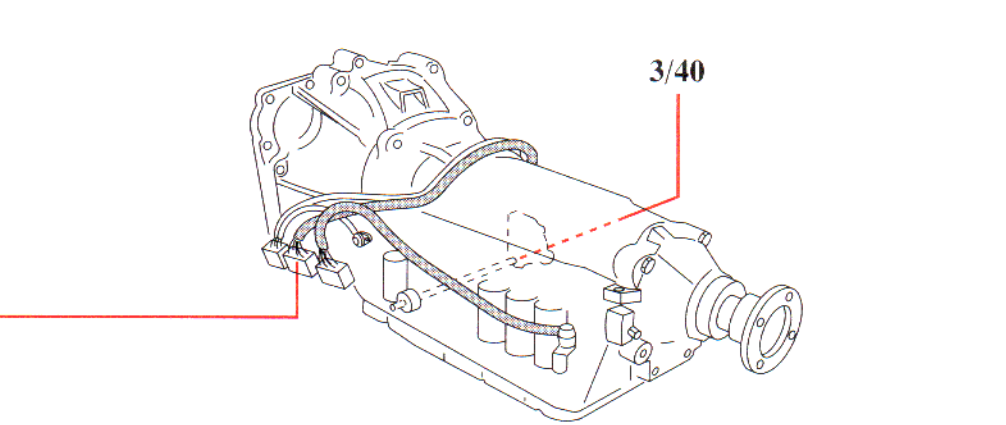
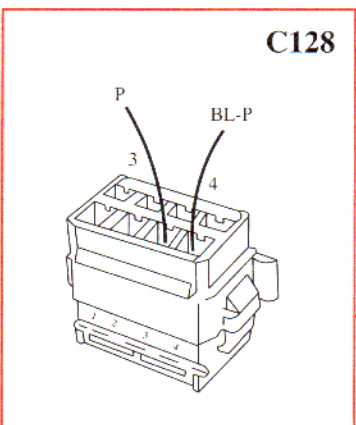
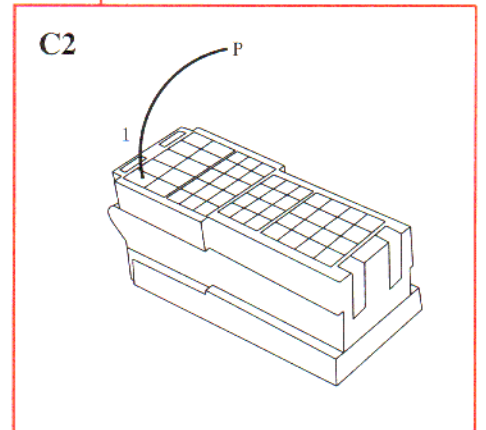
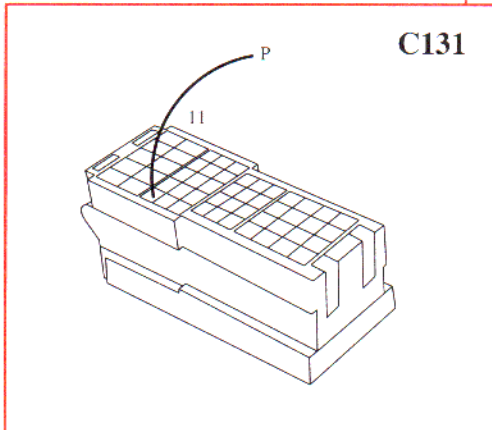
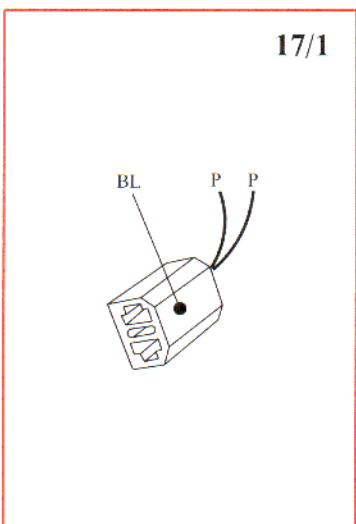
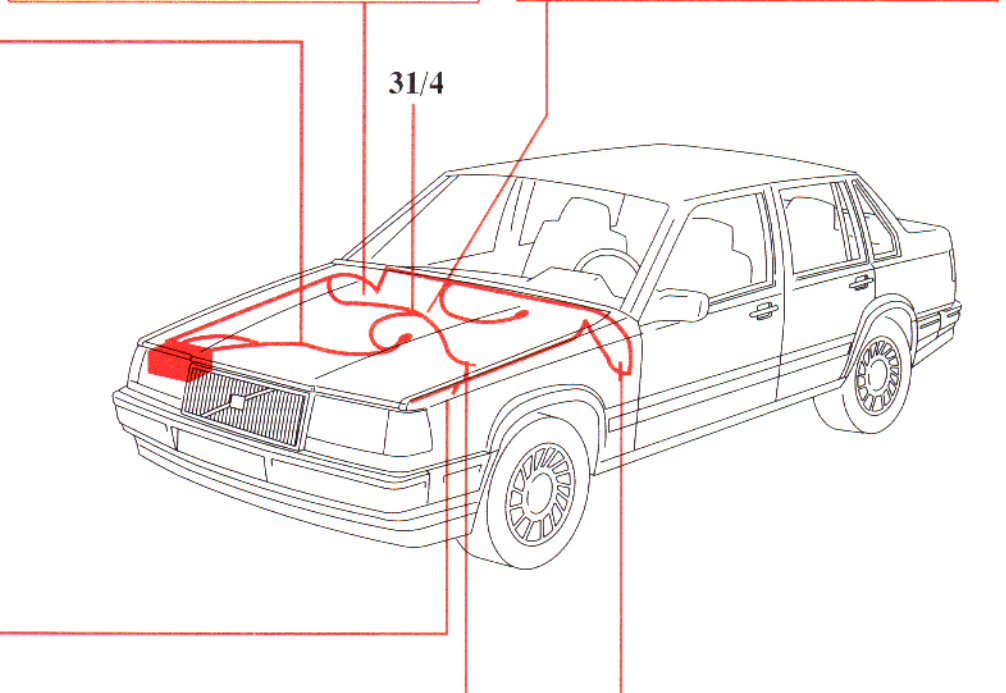
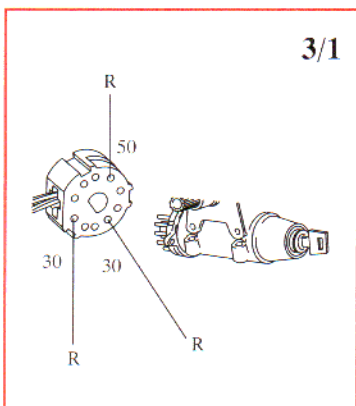
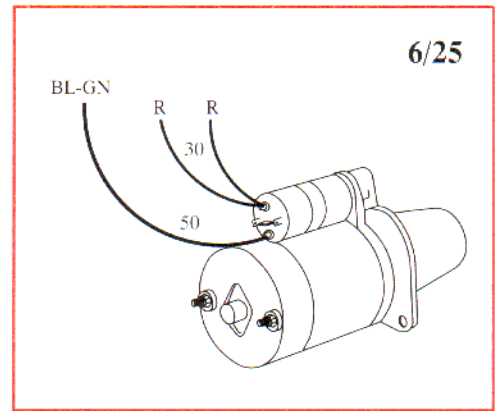
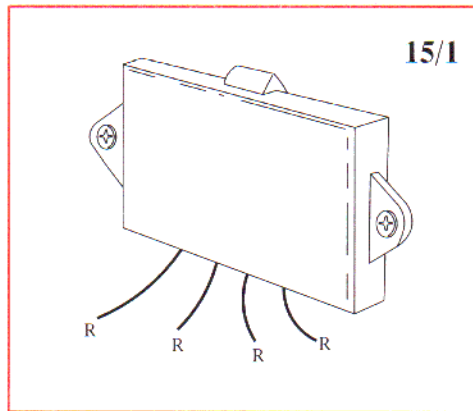
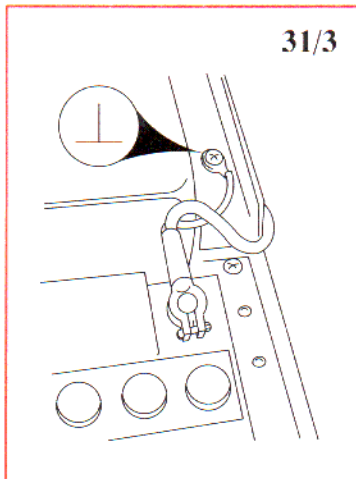
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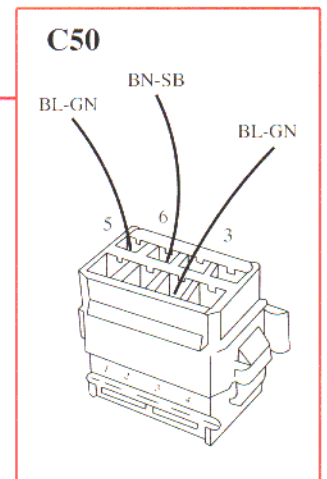
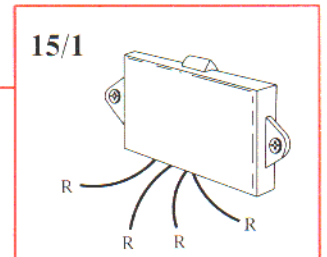
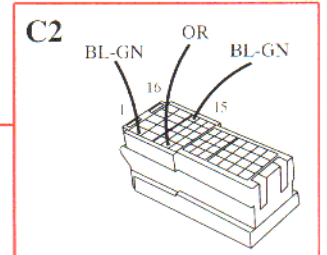
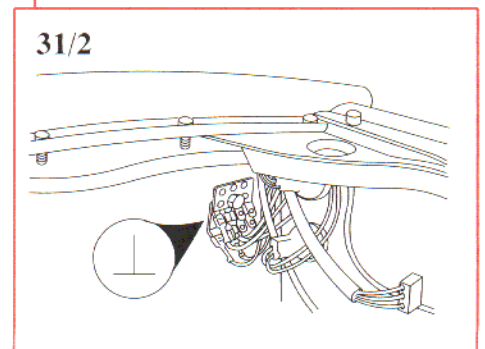
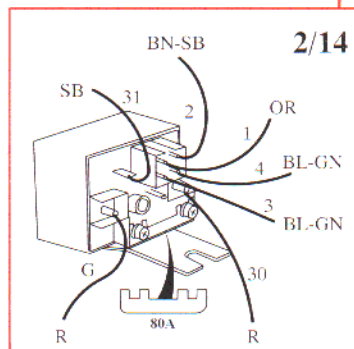
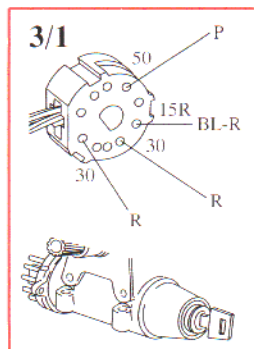
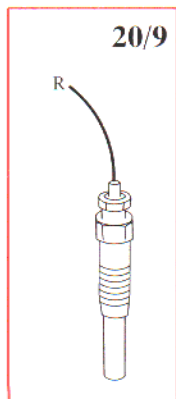
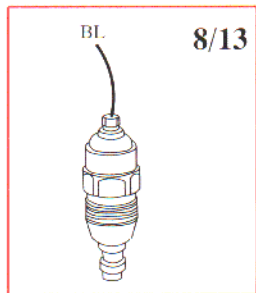
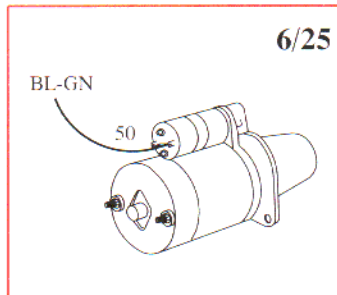
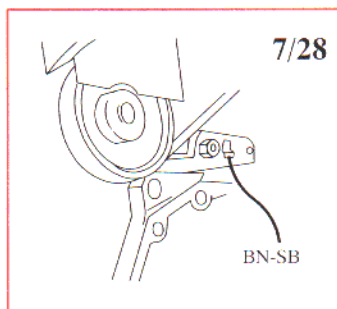
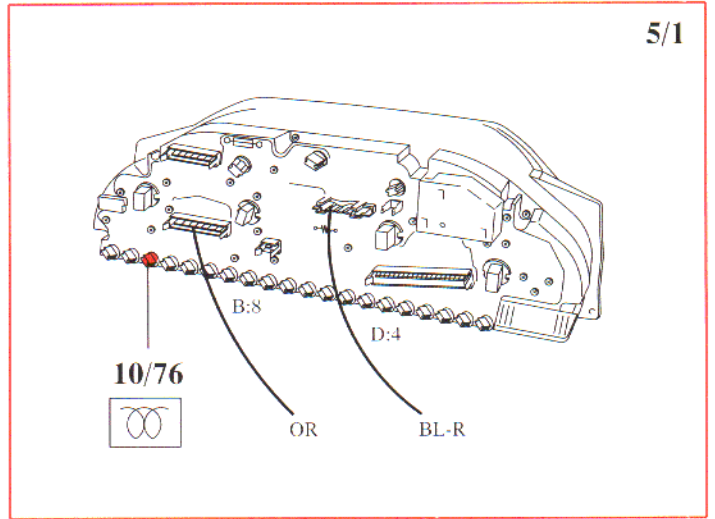
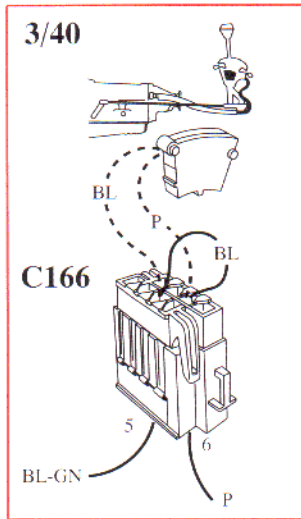
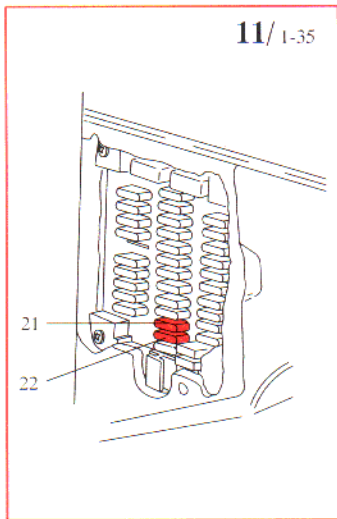


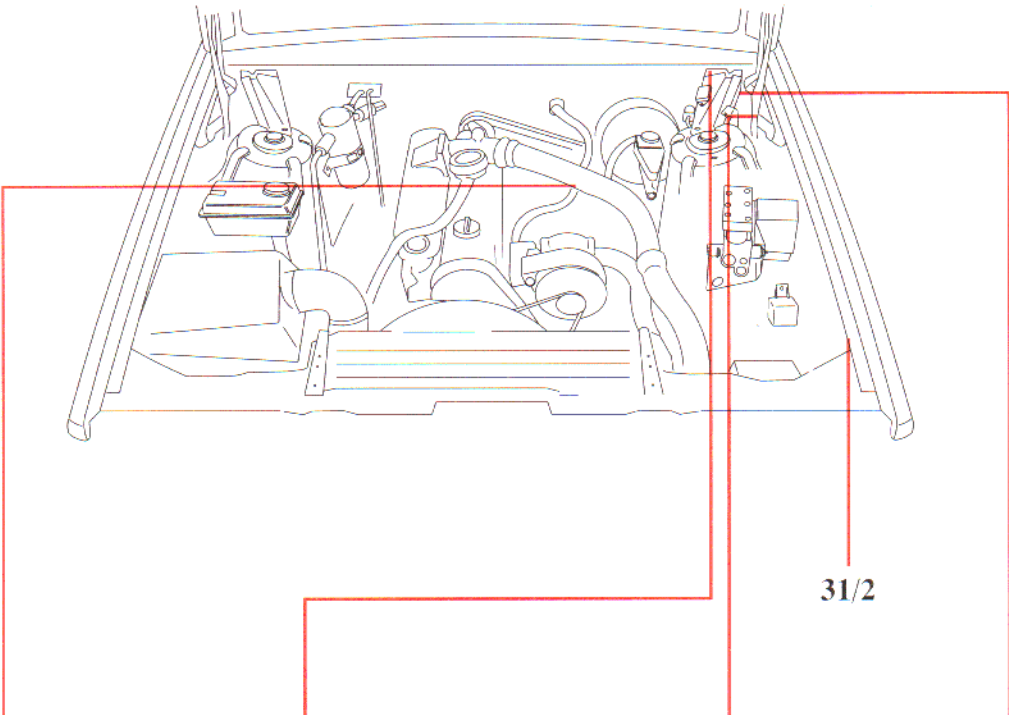
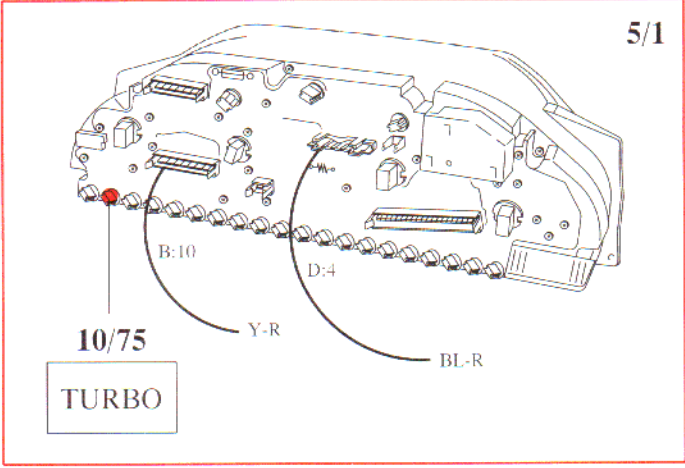
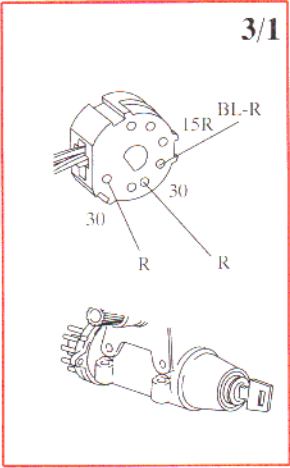
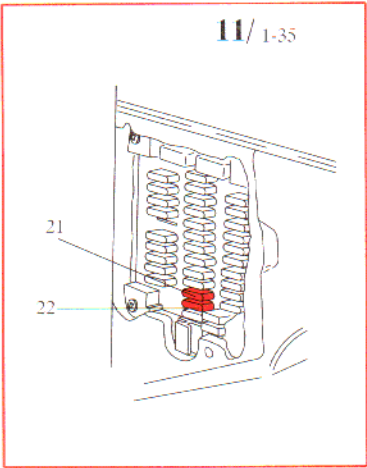




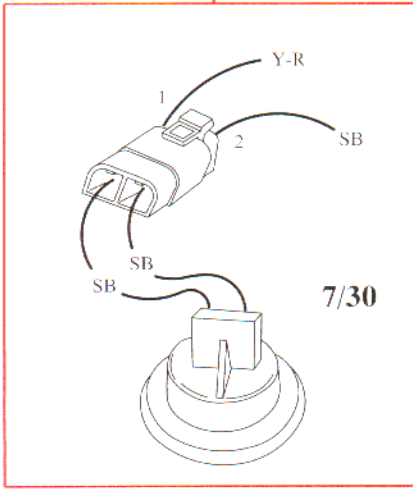
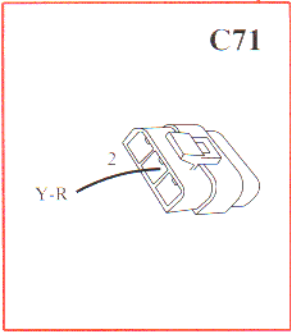
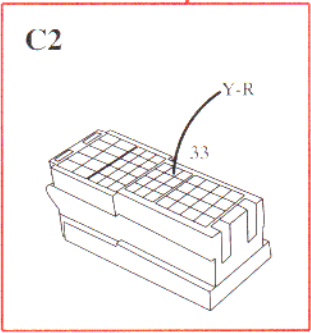
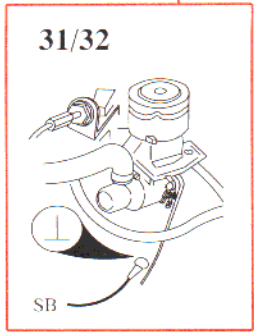




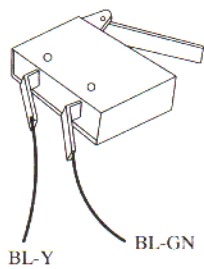




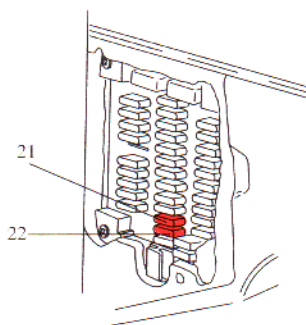
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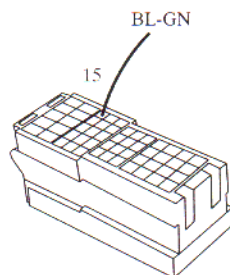
3/66



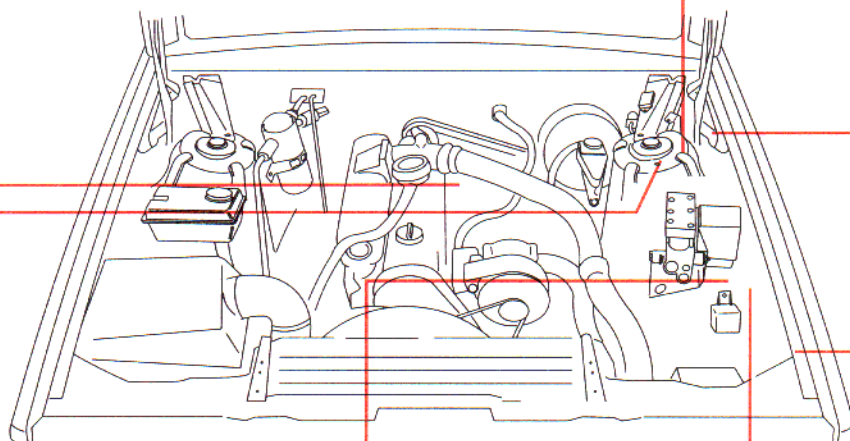
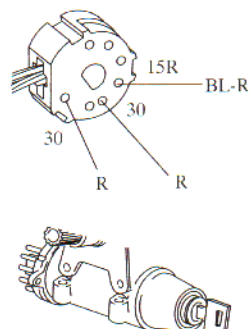
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C2

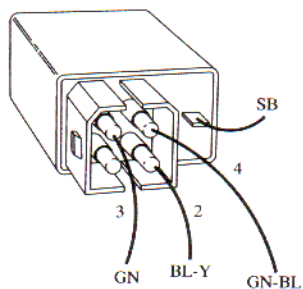


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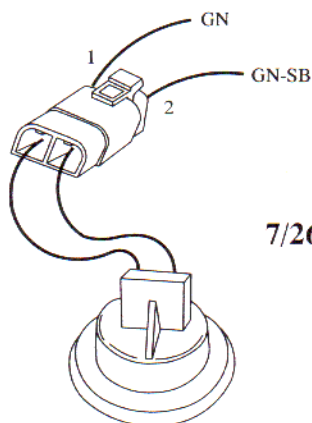


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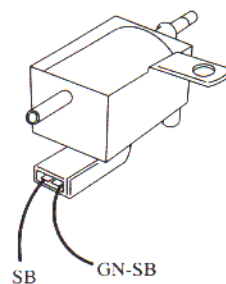
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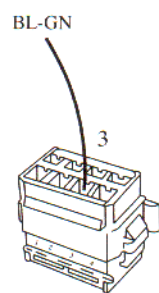
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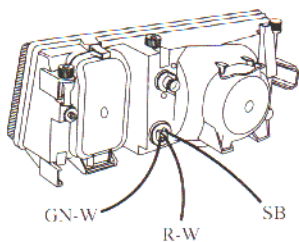
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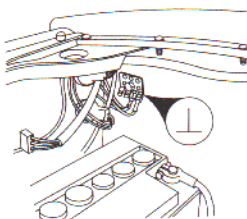
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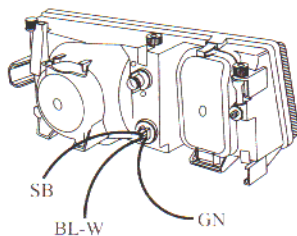
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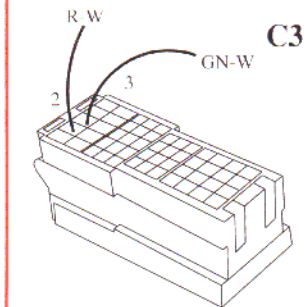
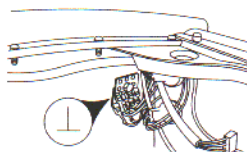
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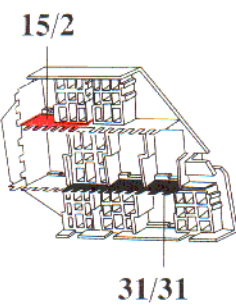
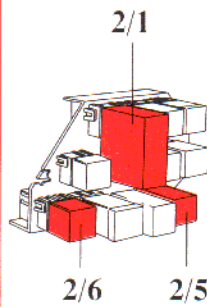
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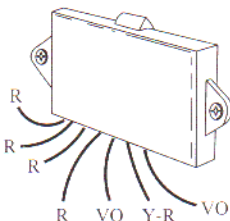
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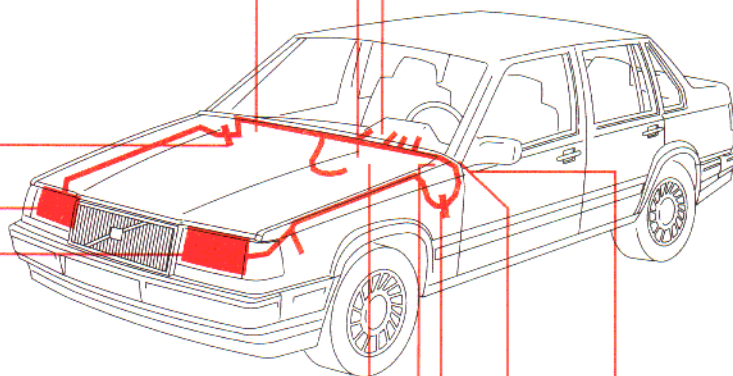
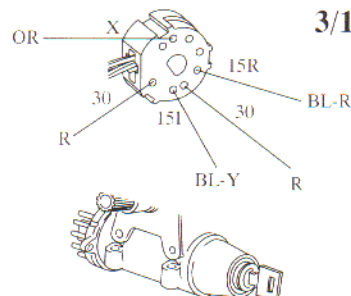
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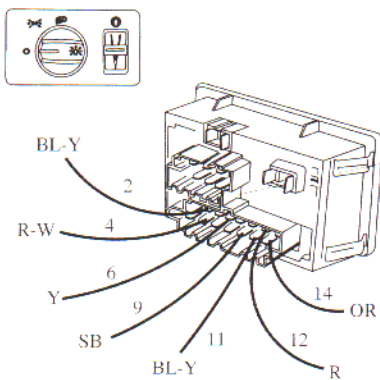
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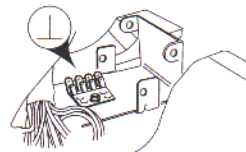
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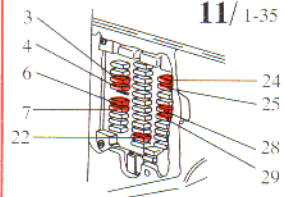
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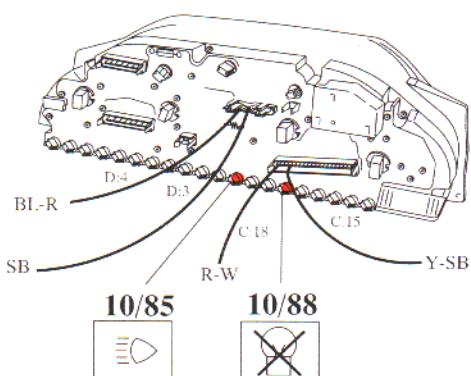
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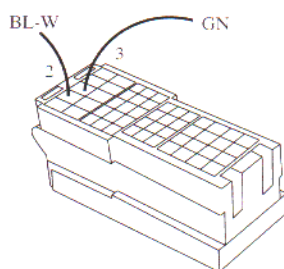
11/ 1-35



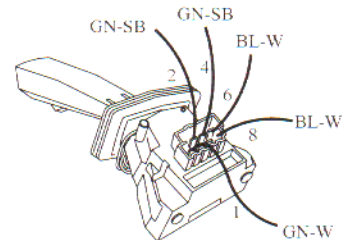
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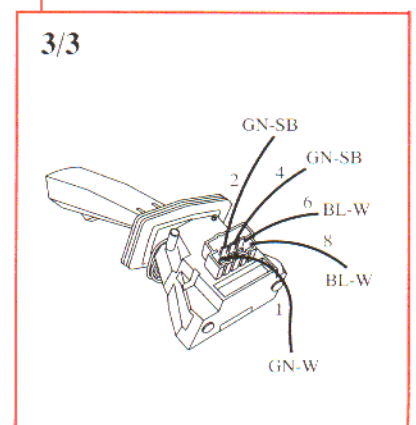
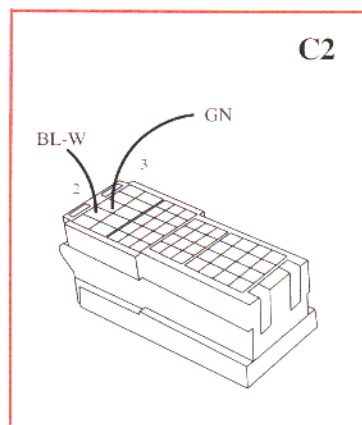
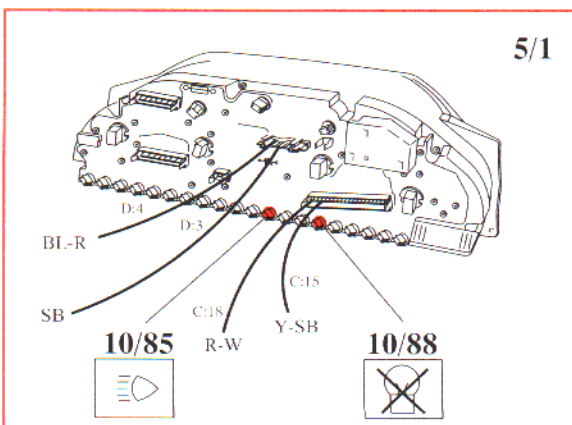
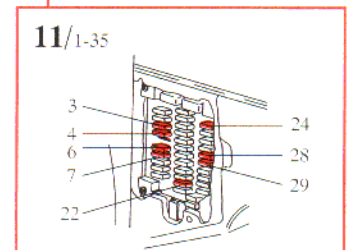
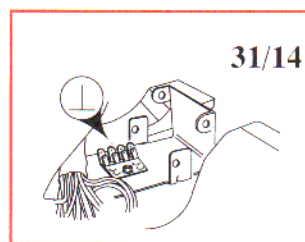
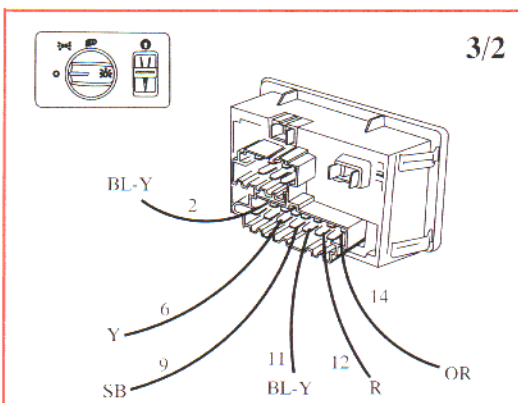
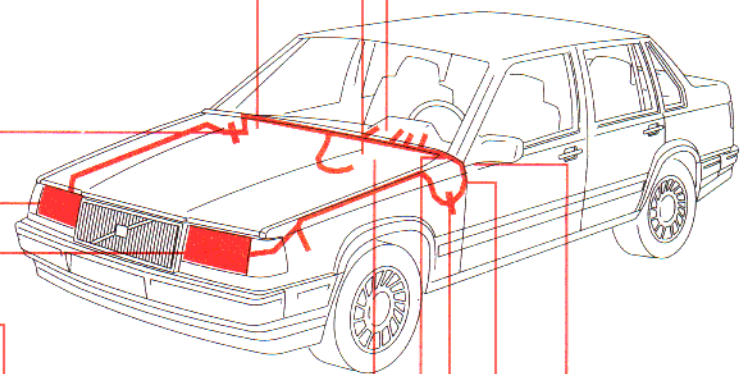
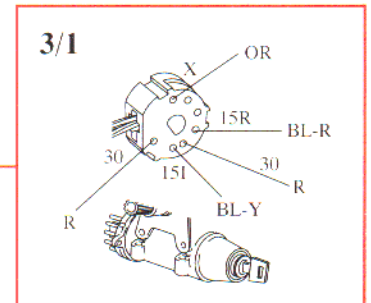
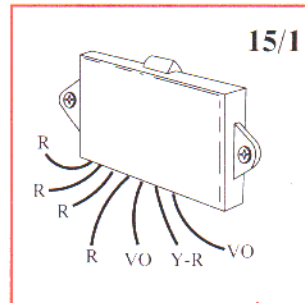
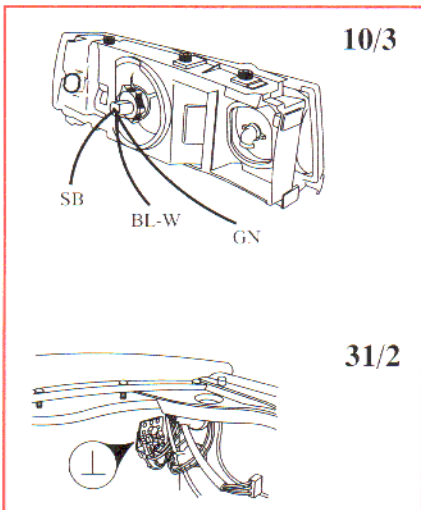
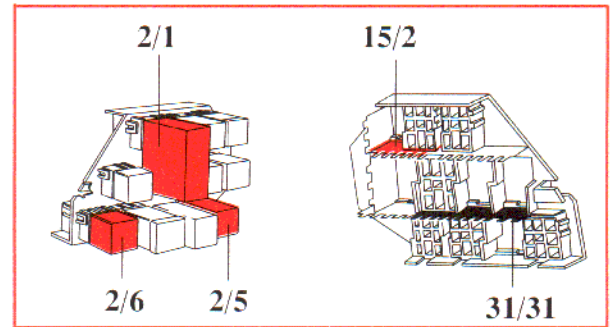
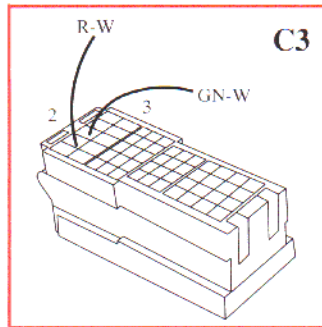
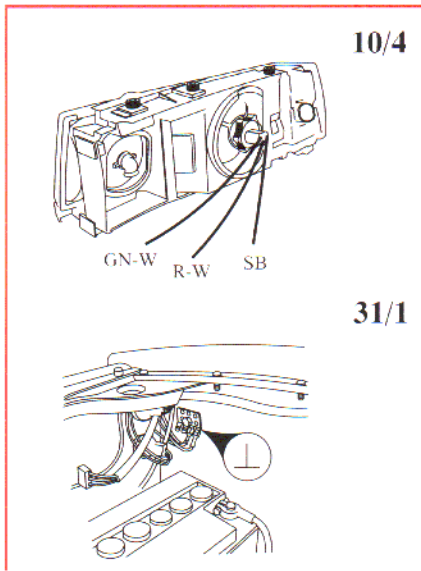


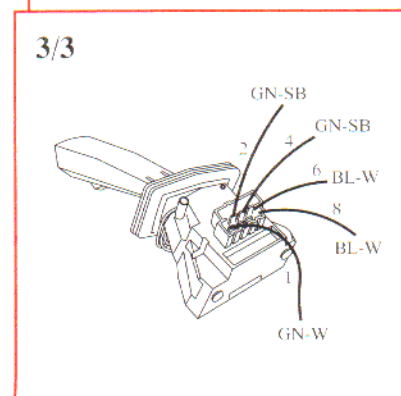
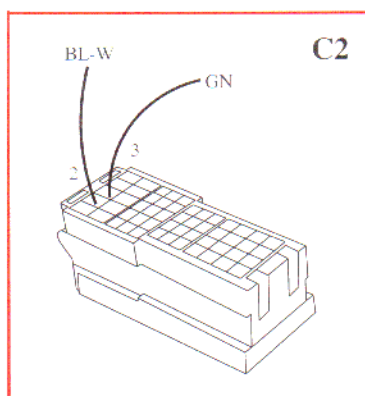
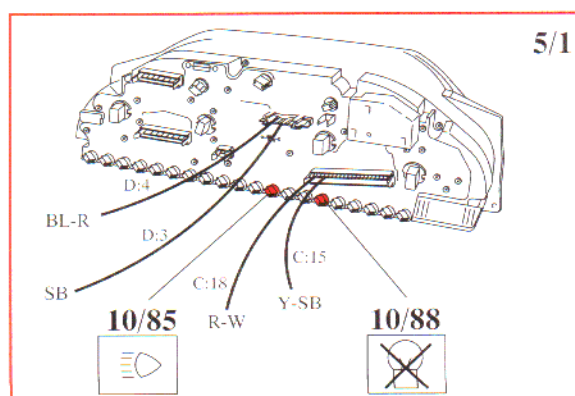
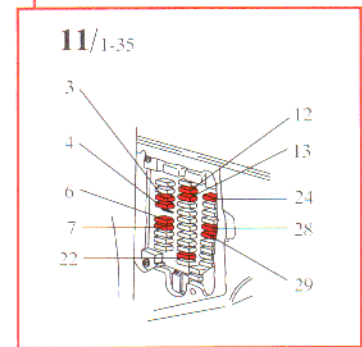
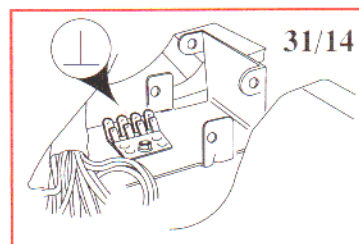
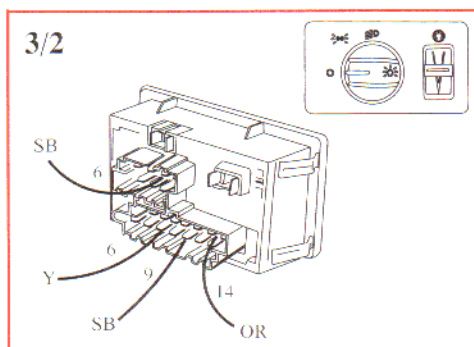
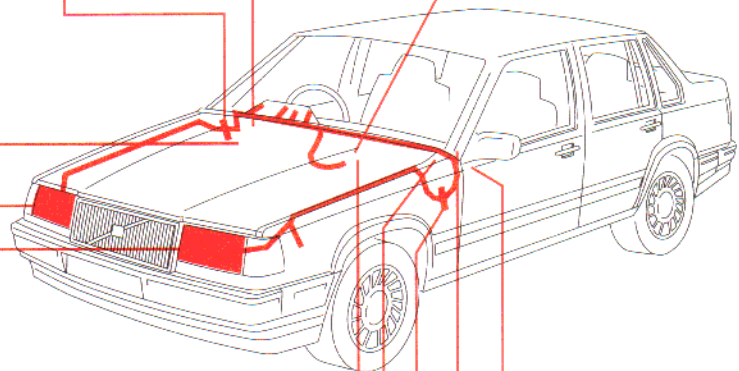
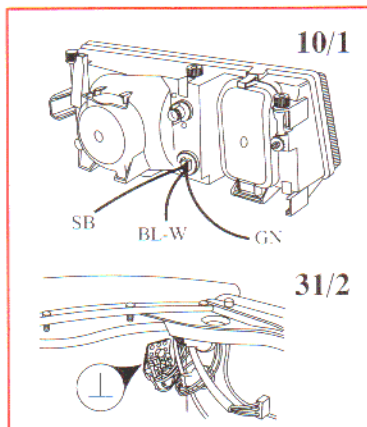
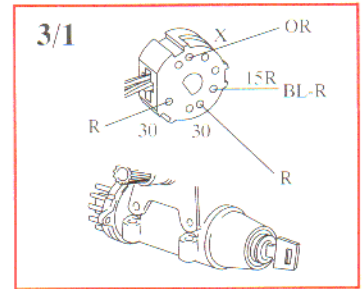
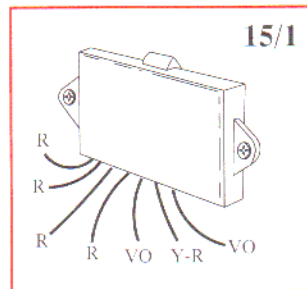
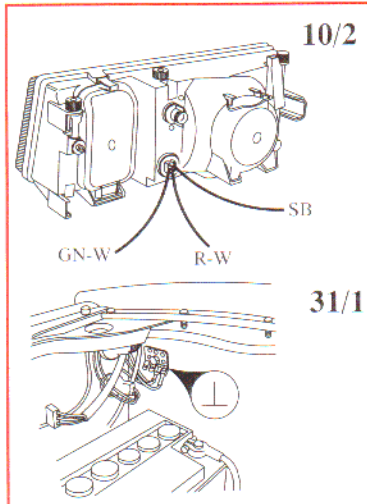
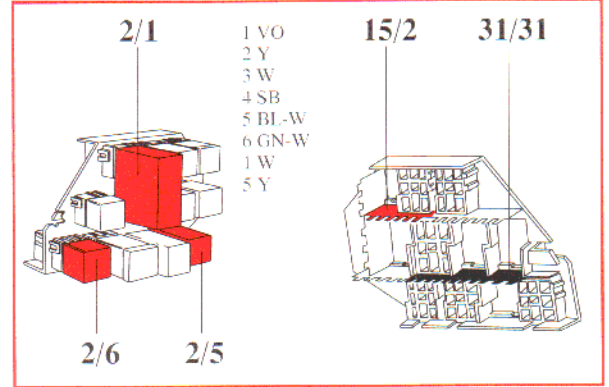
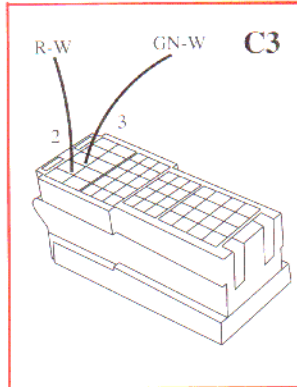
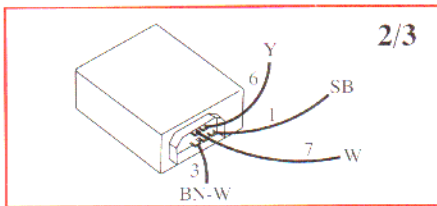
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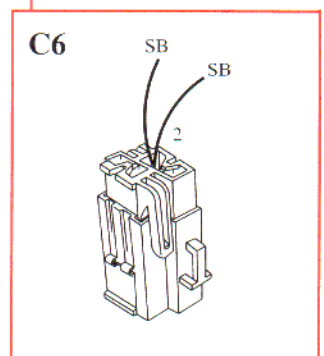
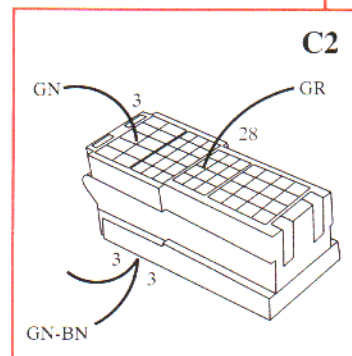
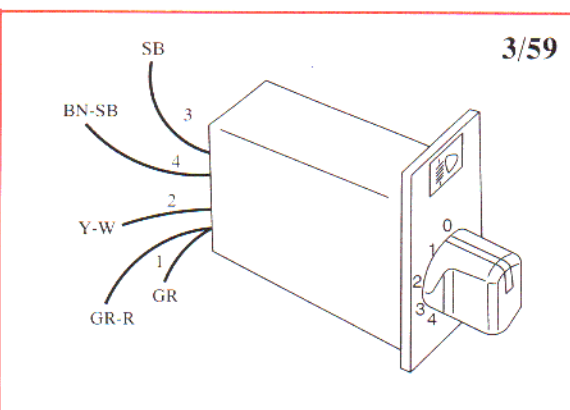
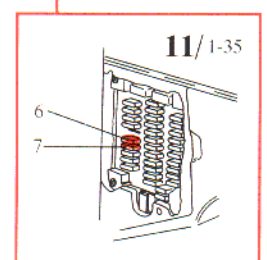
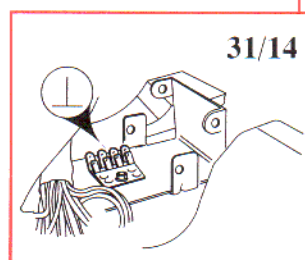
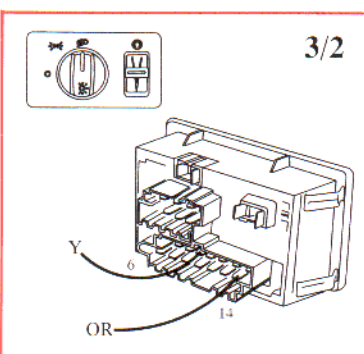
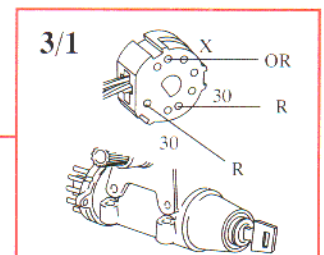
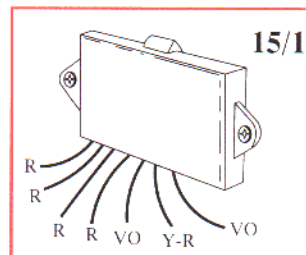
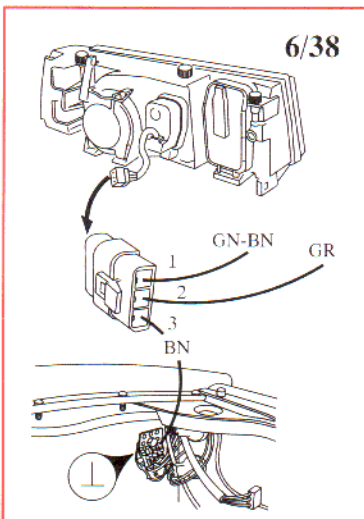
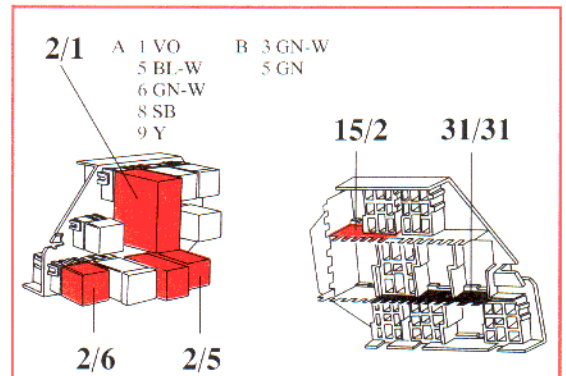
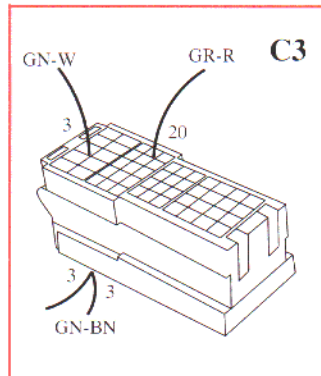
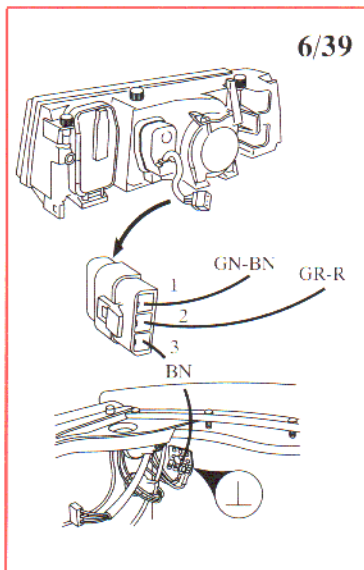


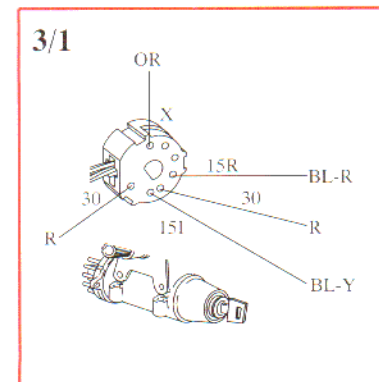
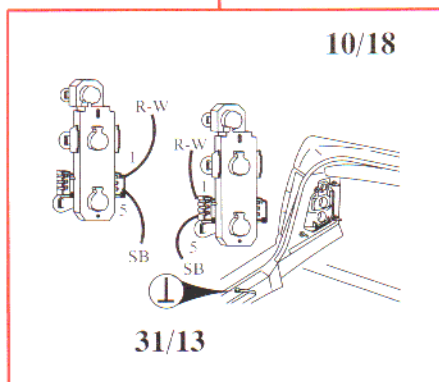
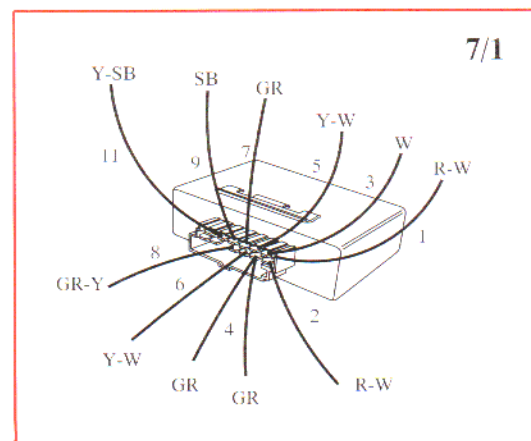
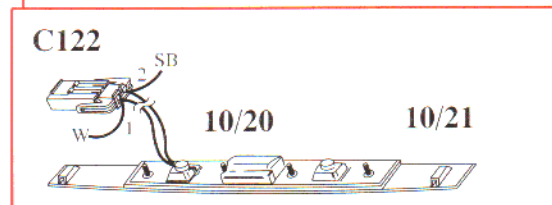
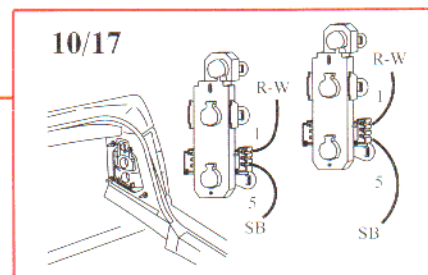
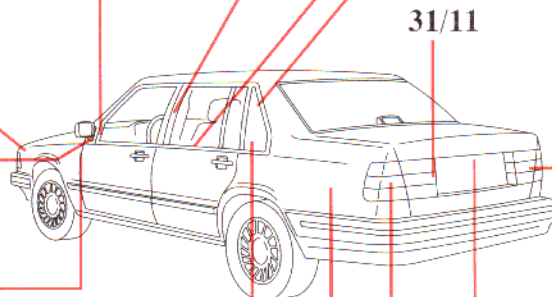
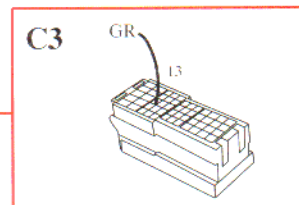
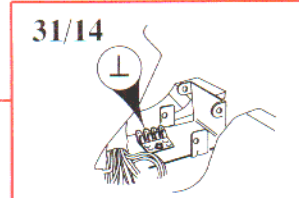
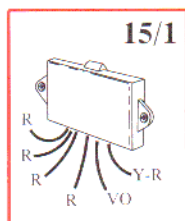
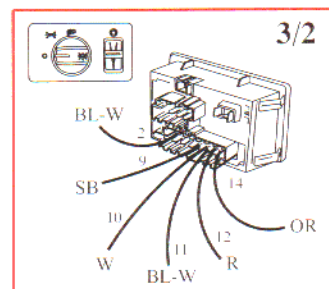
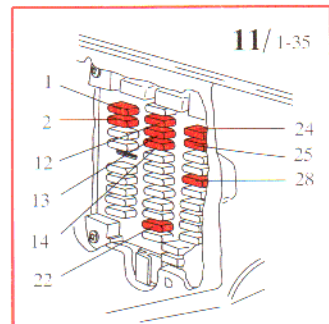
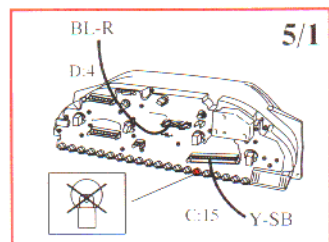
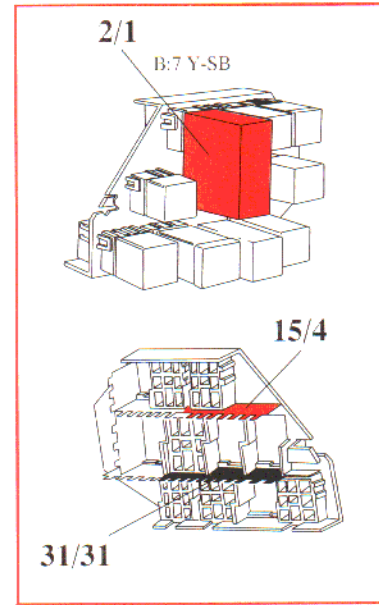
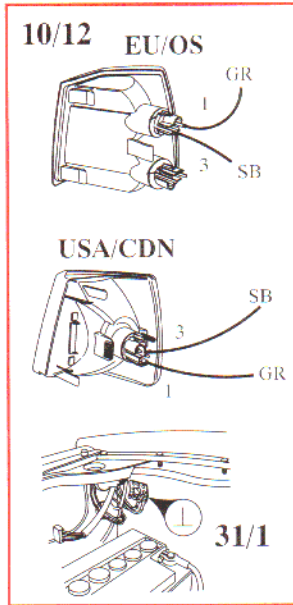
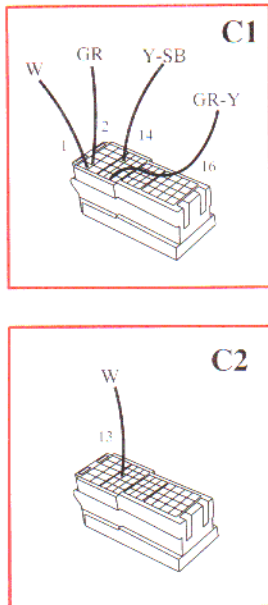
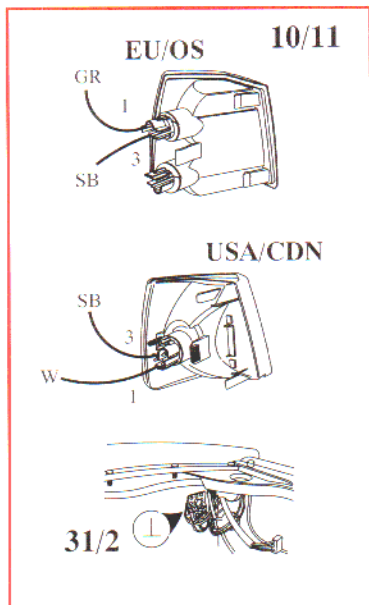
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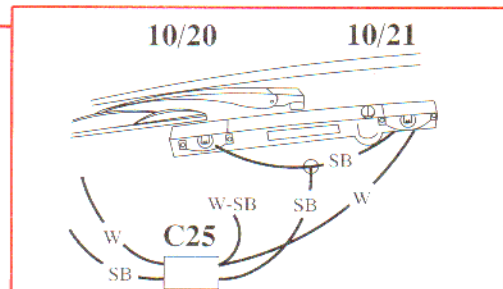
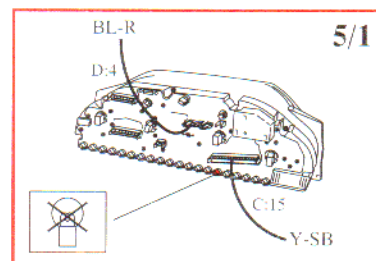
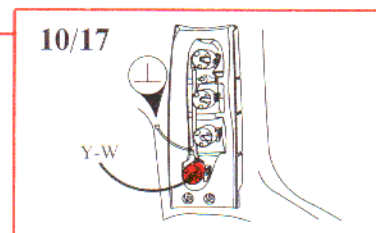
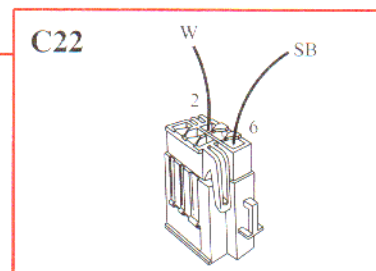
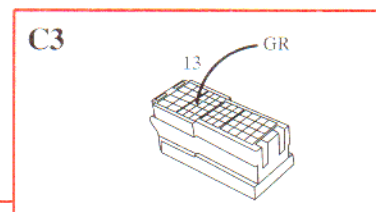
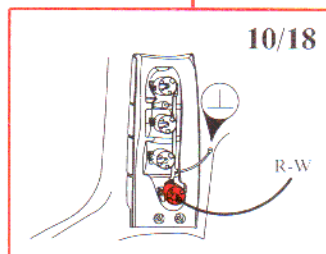
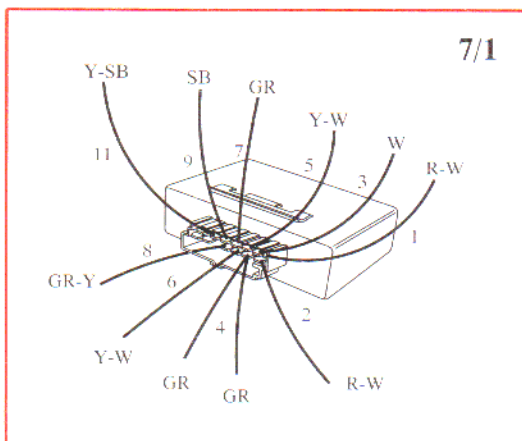
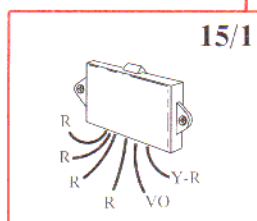
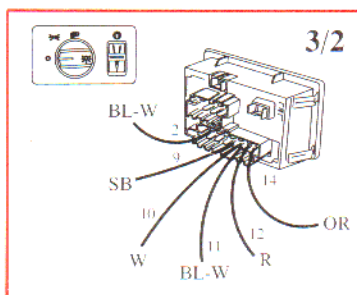
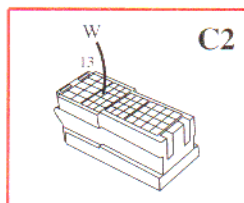
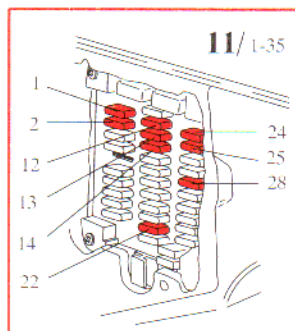
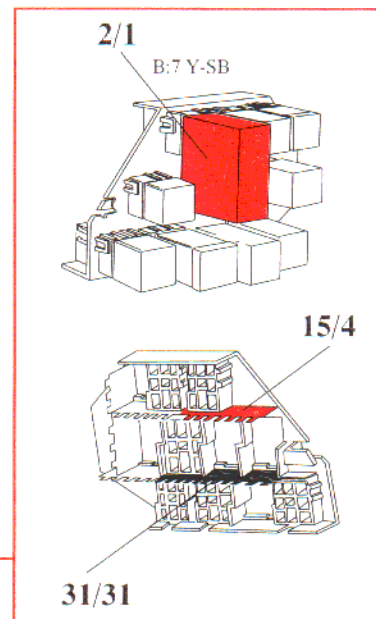
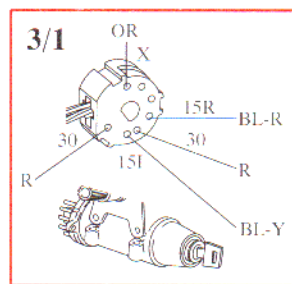
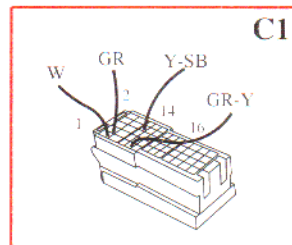
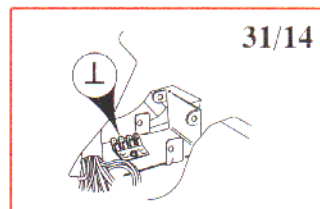
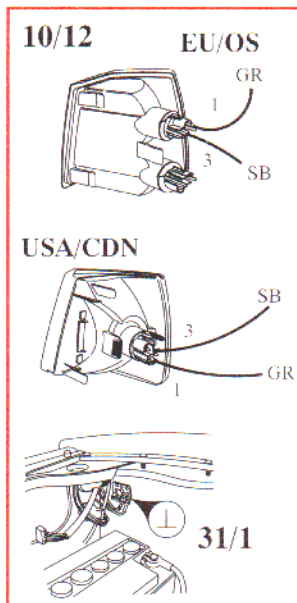
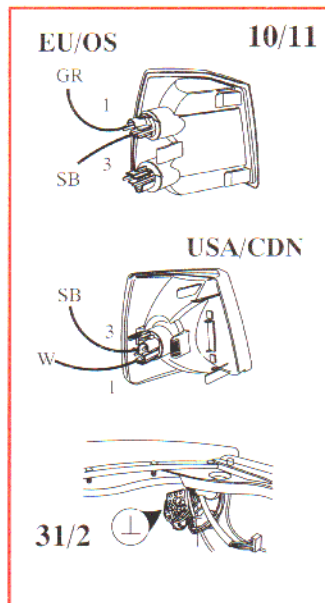


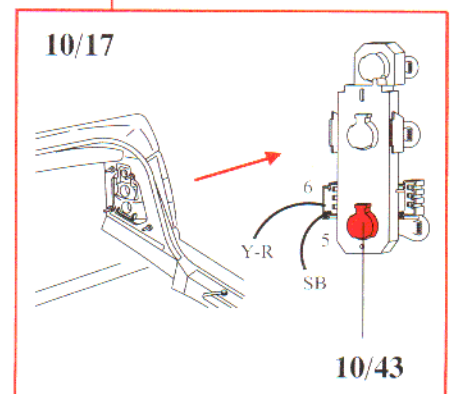
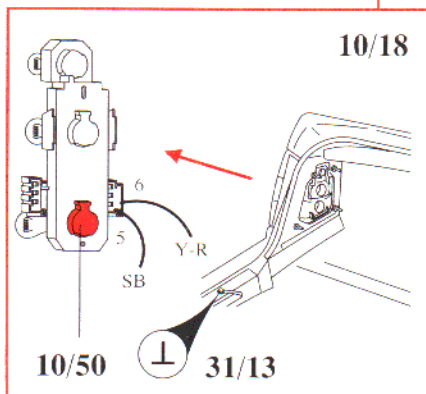
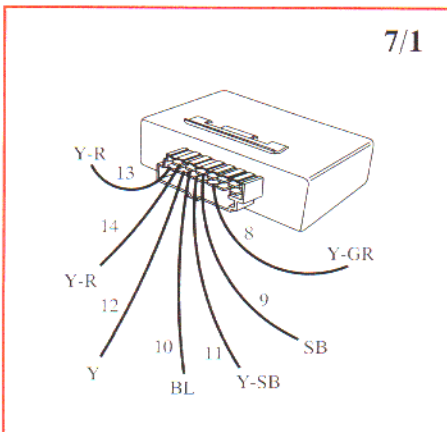
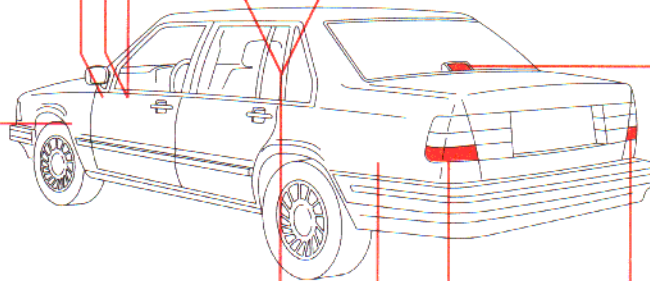
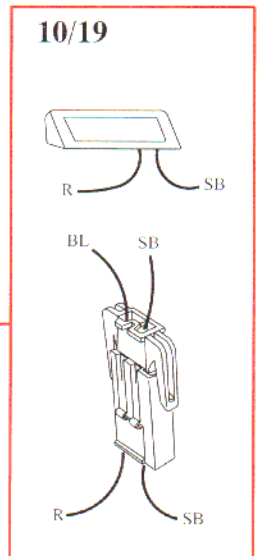
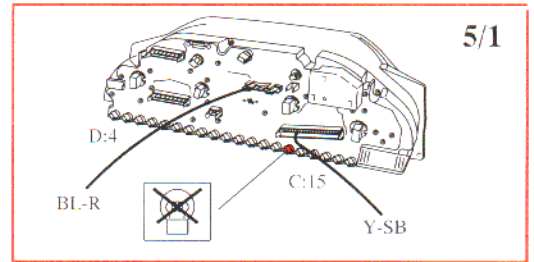
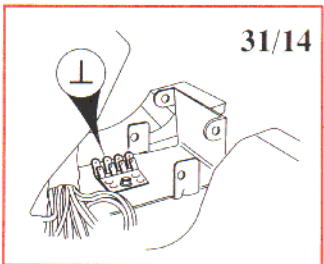
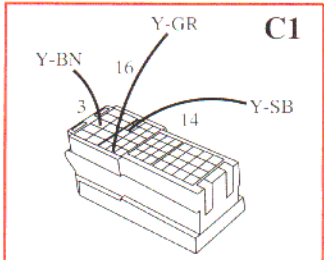
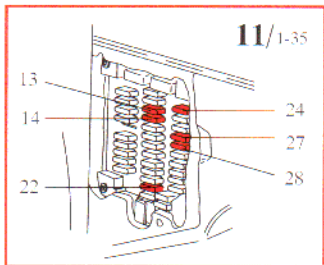
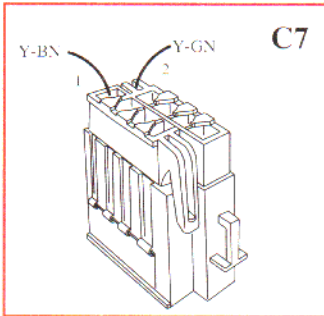
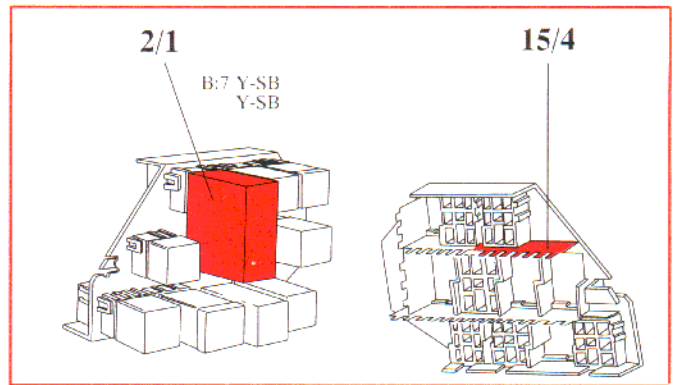
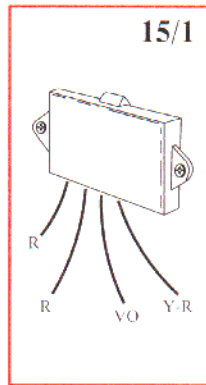
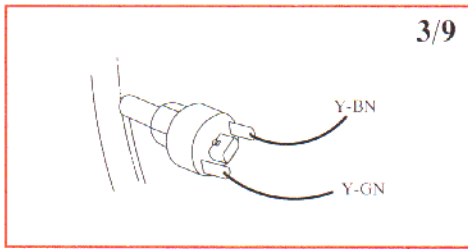


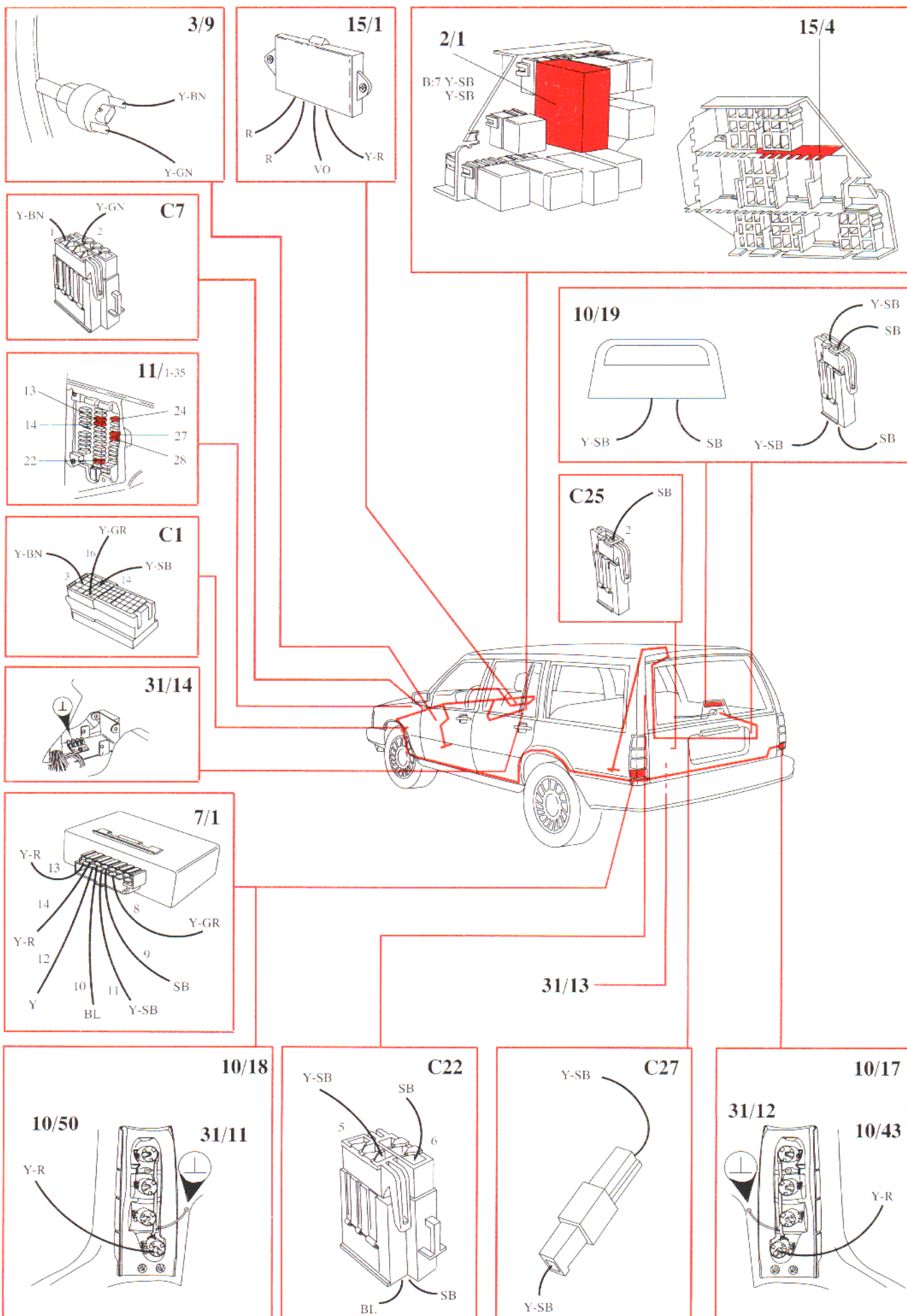


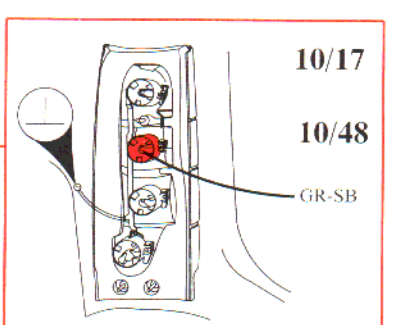
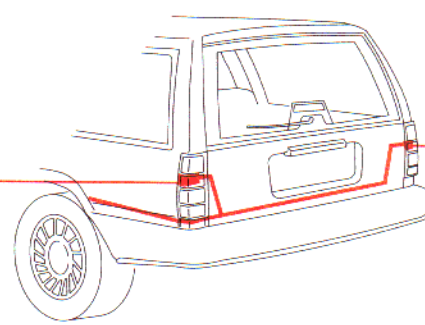
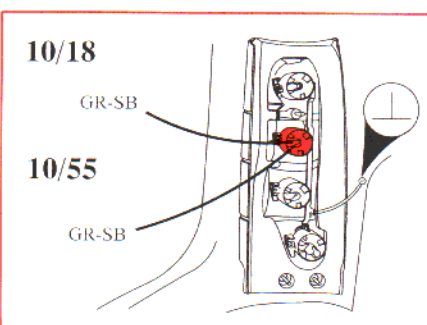
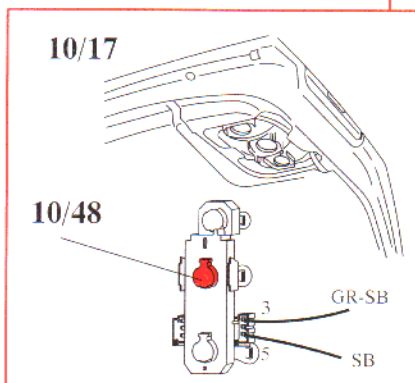
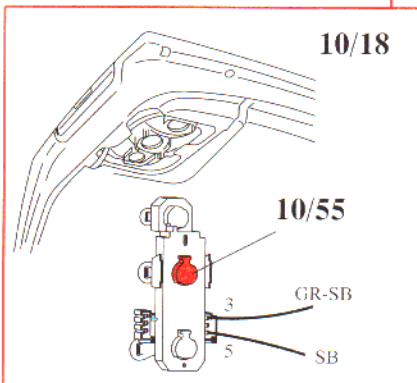
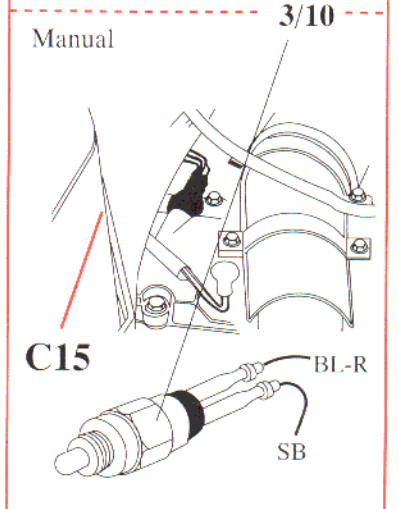
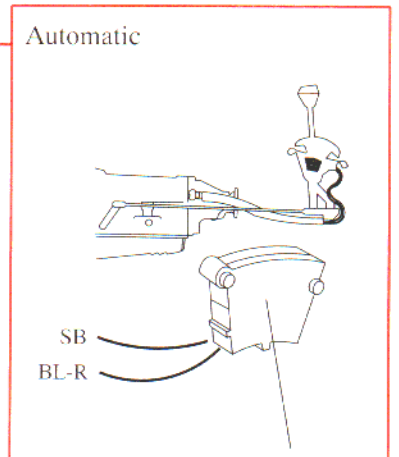
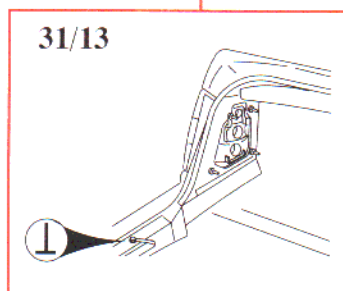
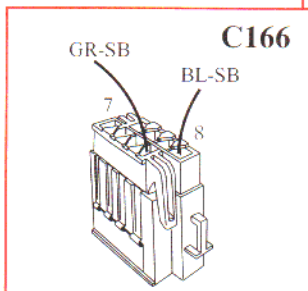
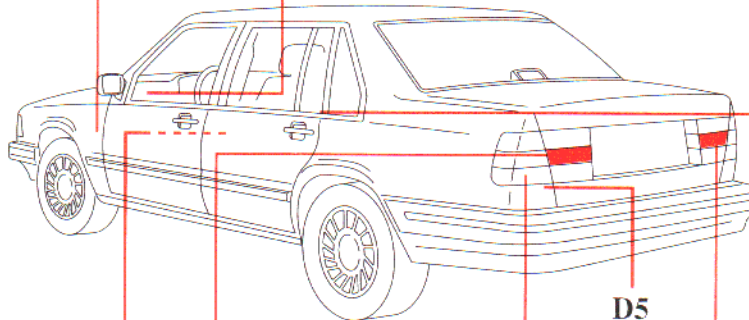
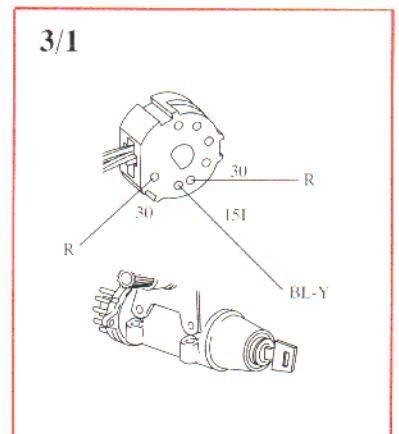
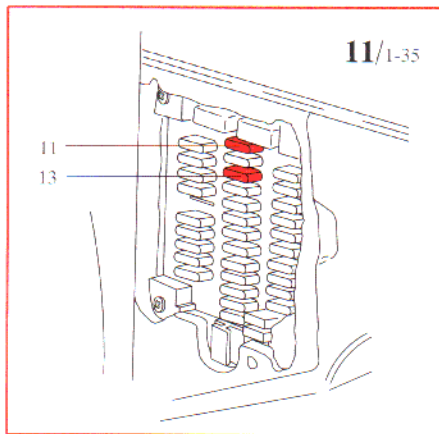
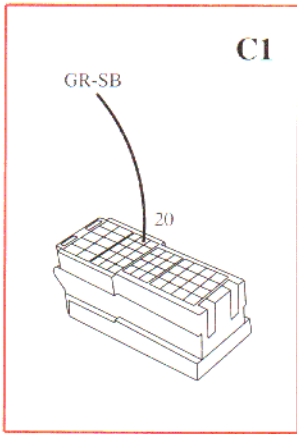


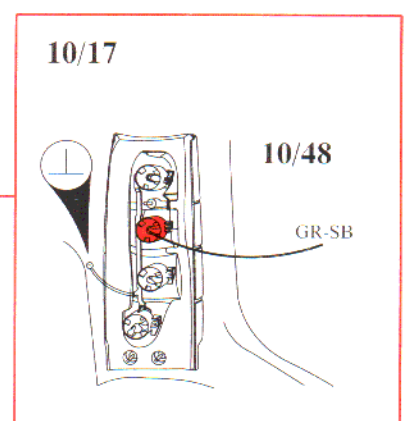
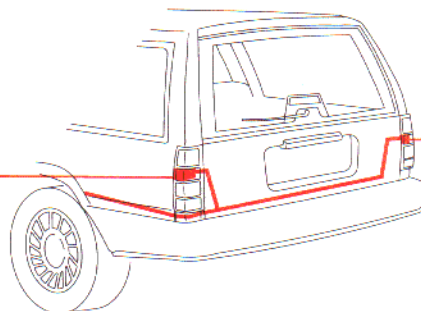
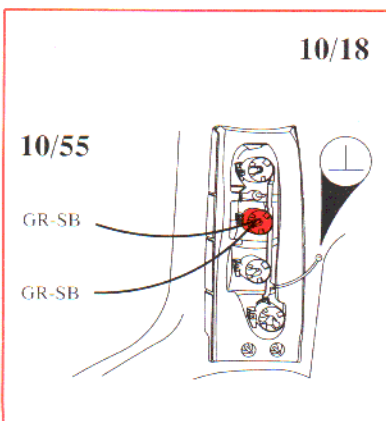
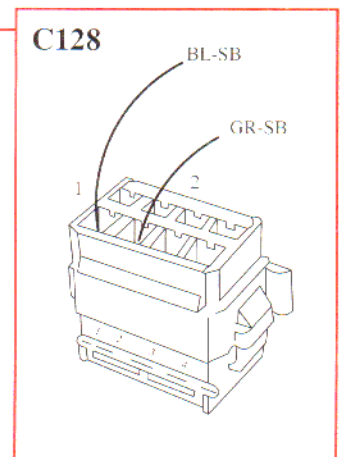
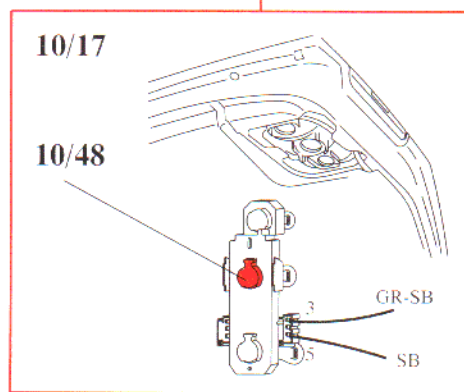
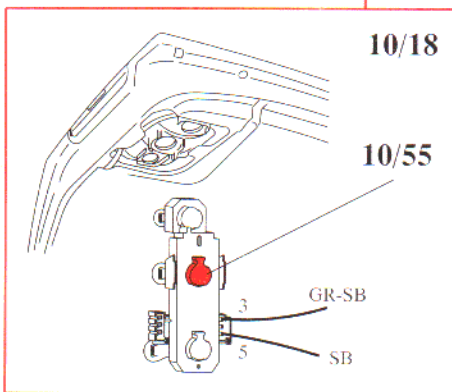
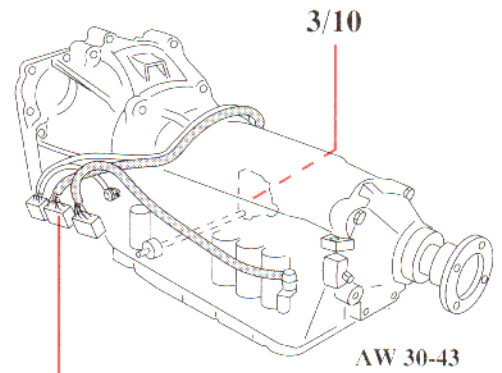
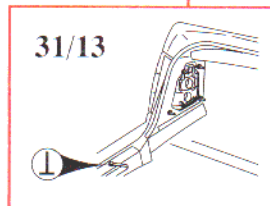
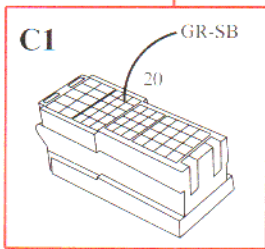
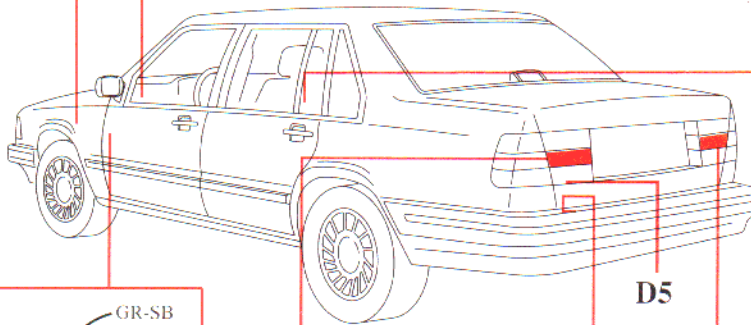
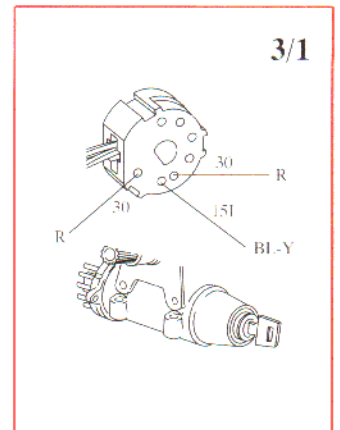
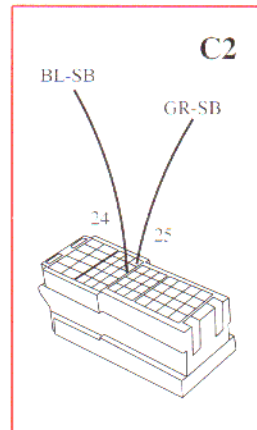
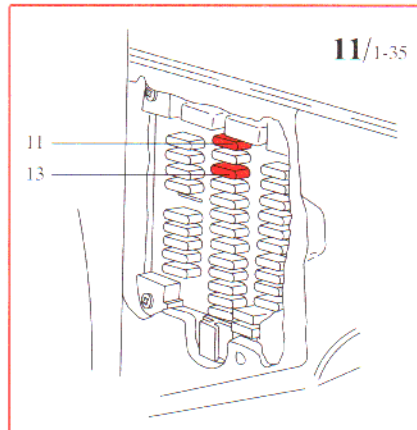
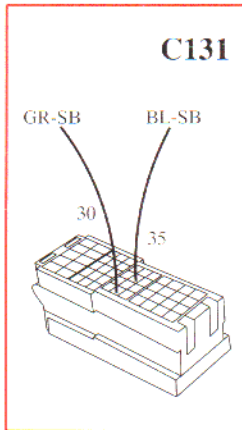


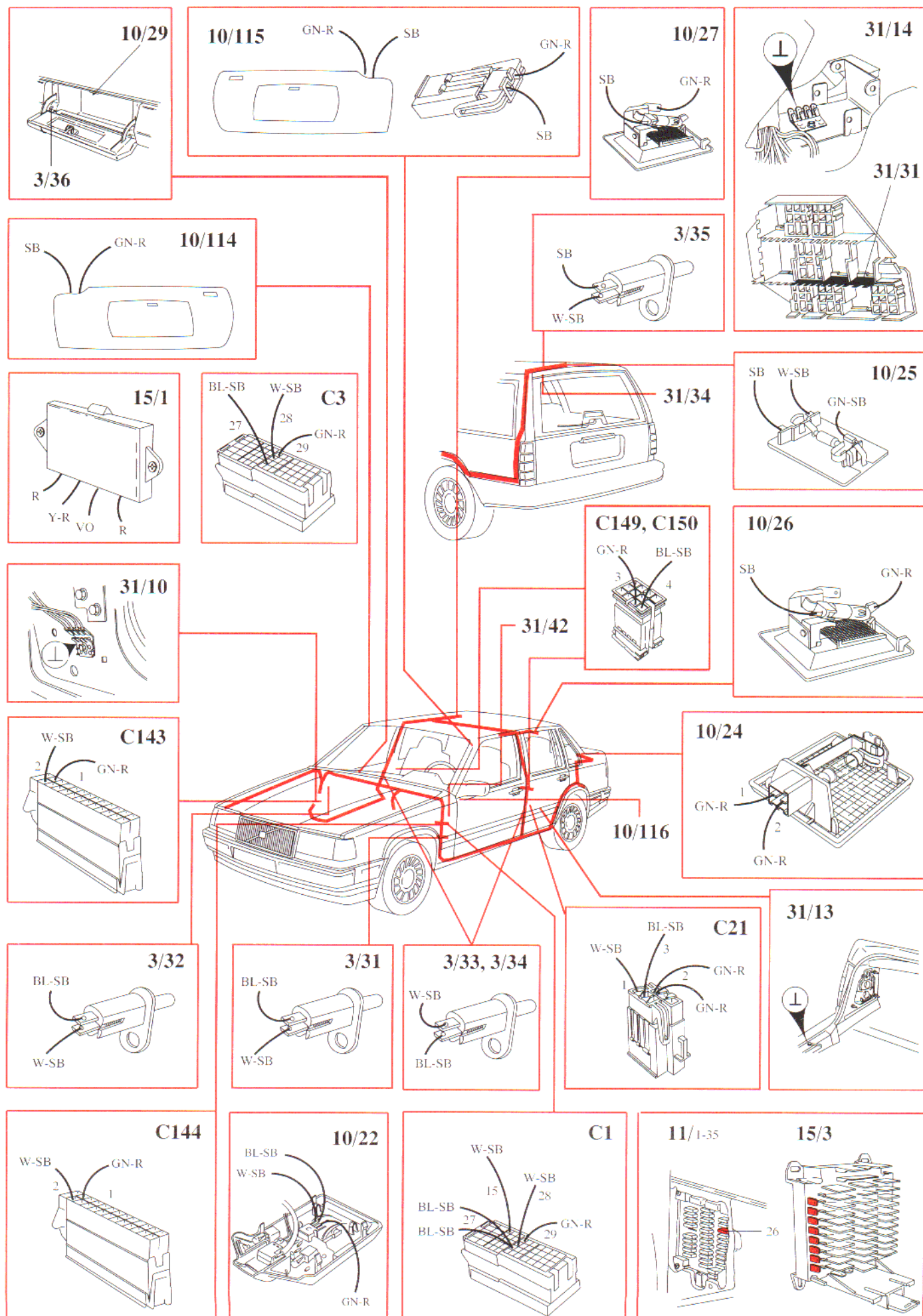


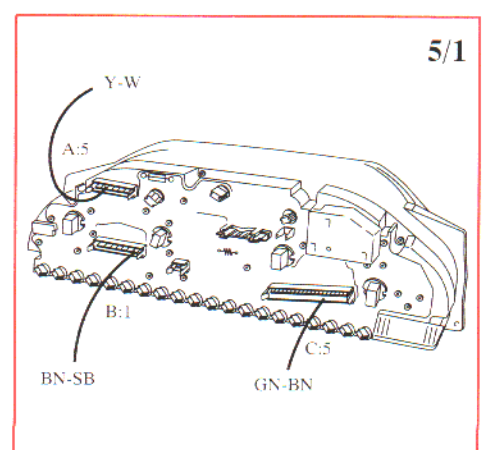
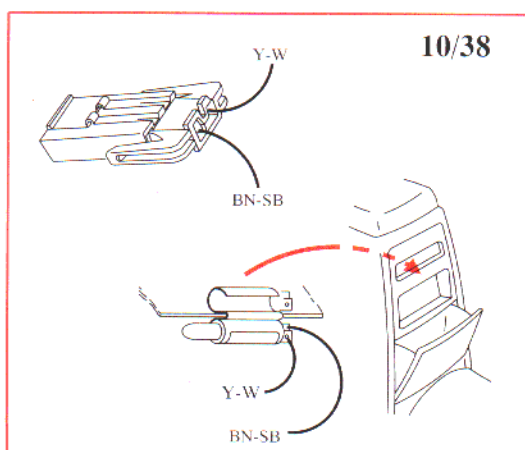
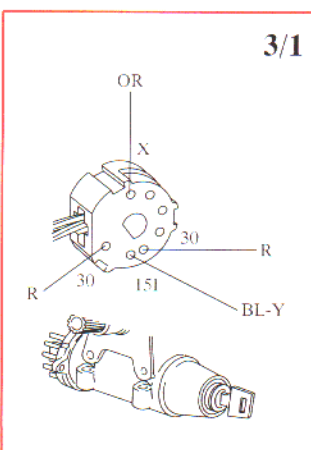
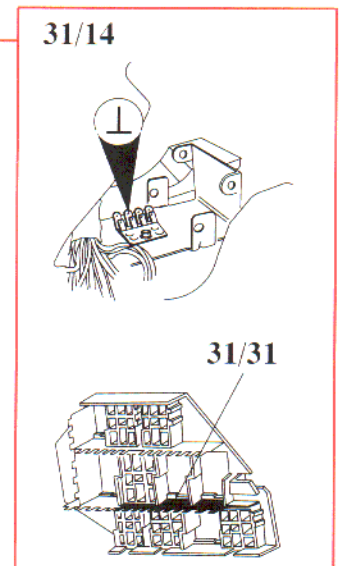
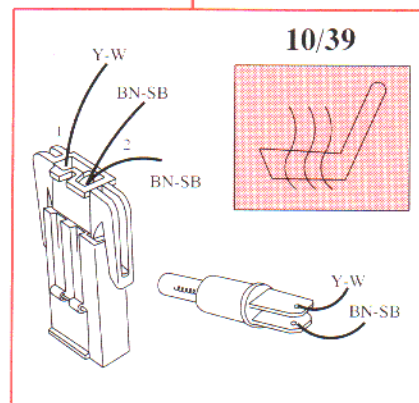
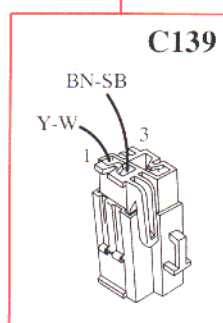
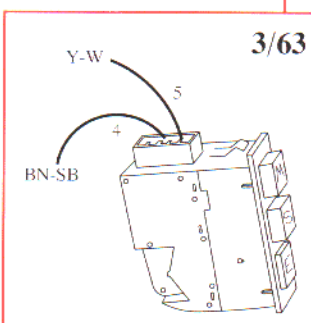
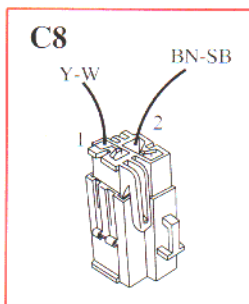
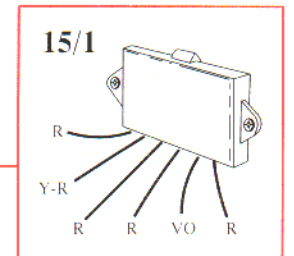
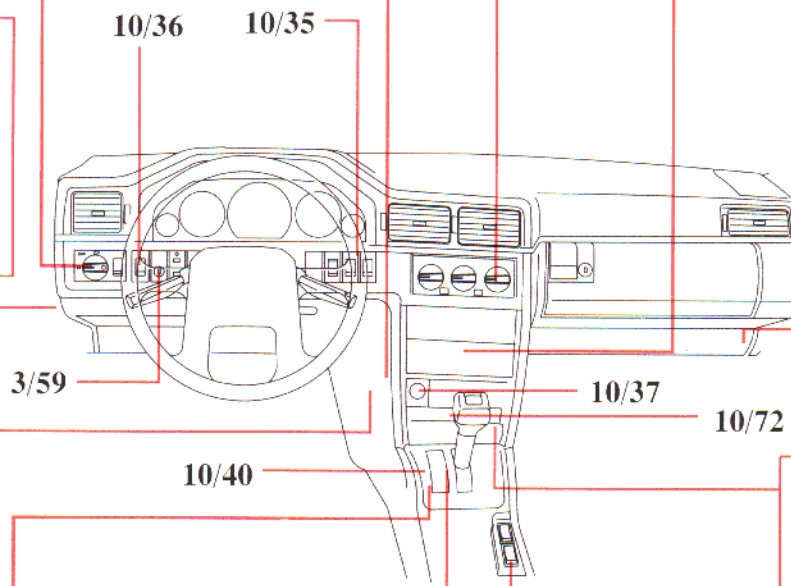
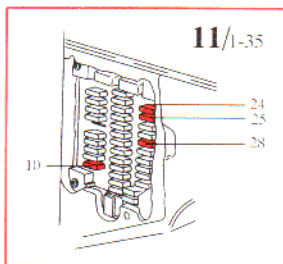
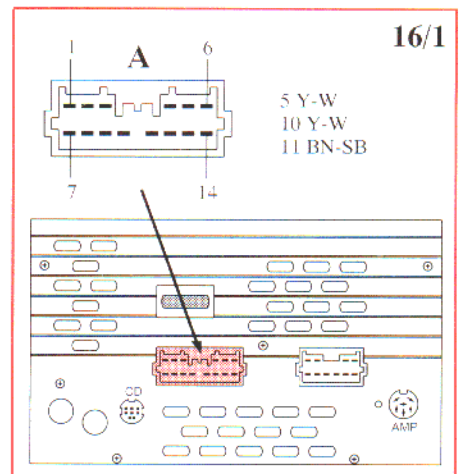
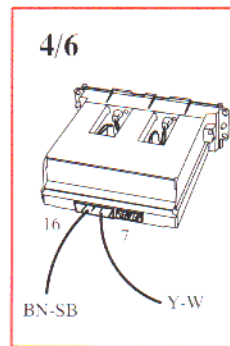
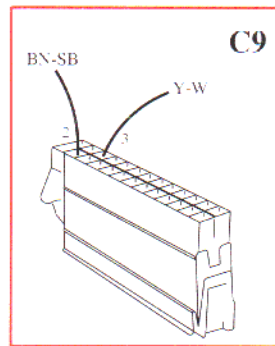
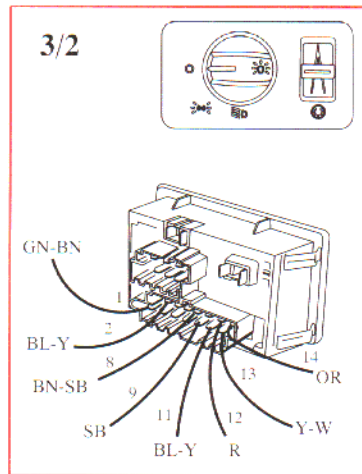


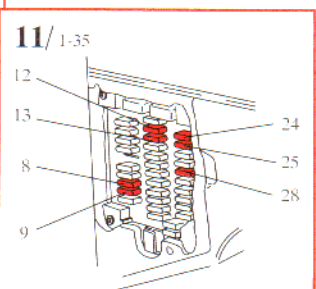
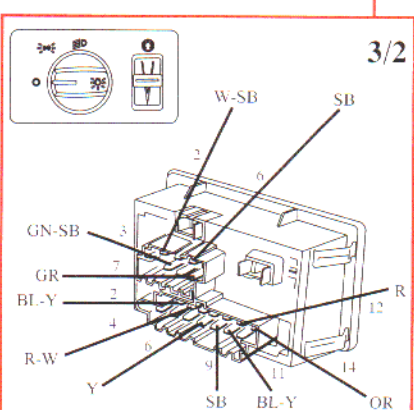
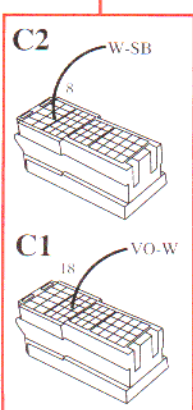
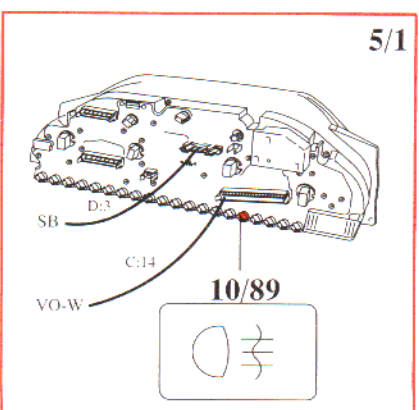
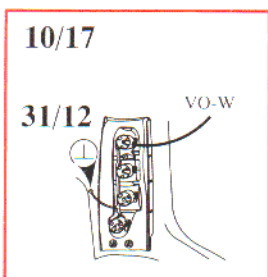
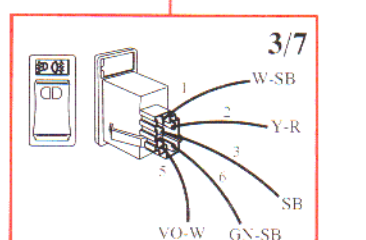
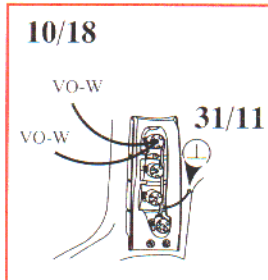
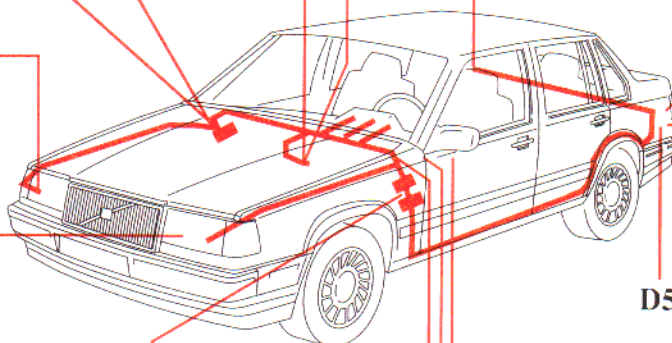
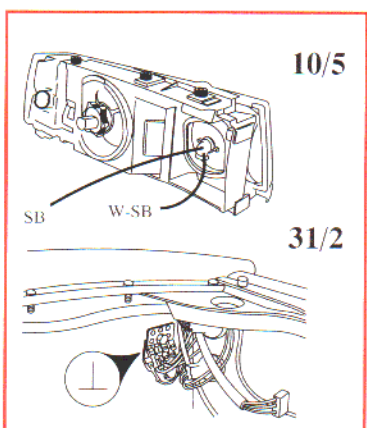
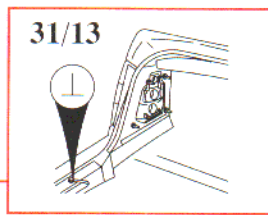
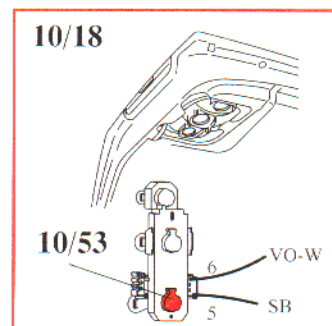
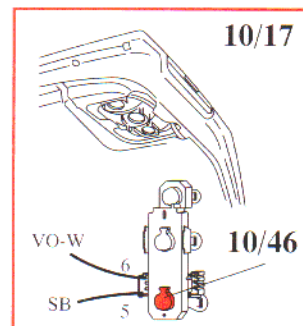
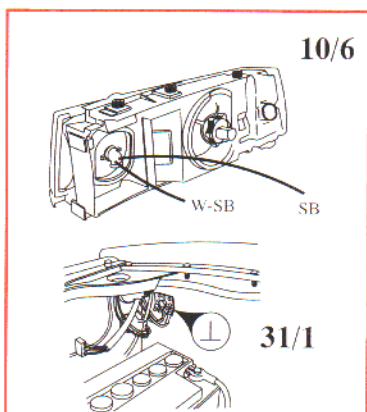
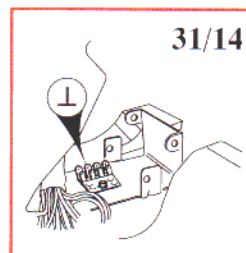
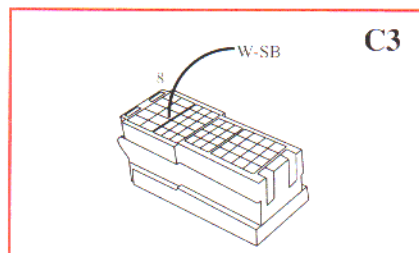
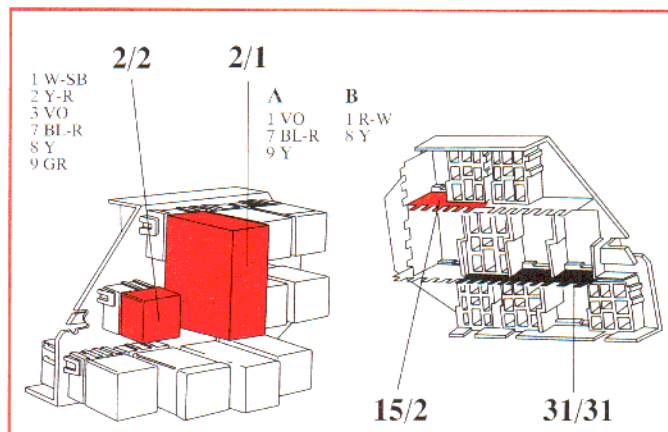
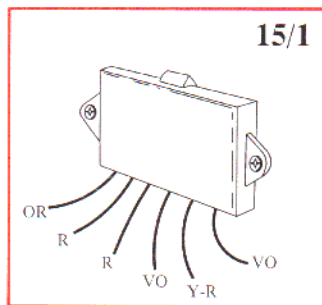
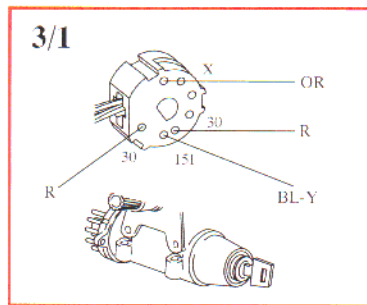


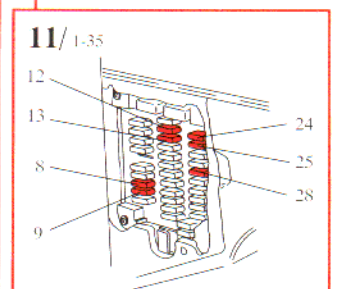
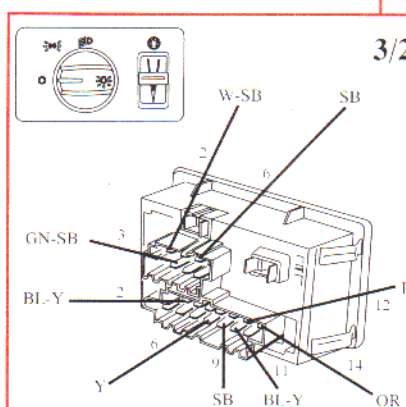
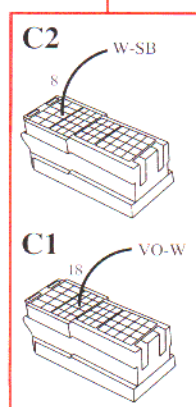
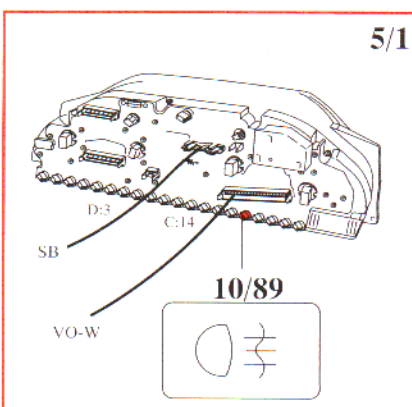
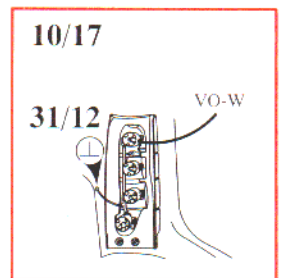
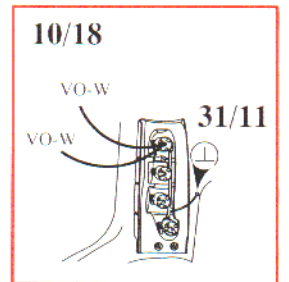
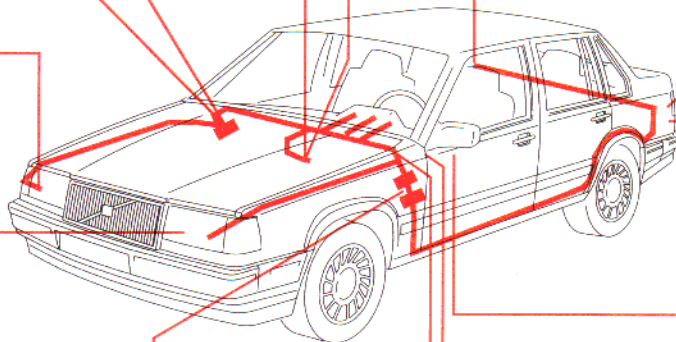
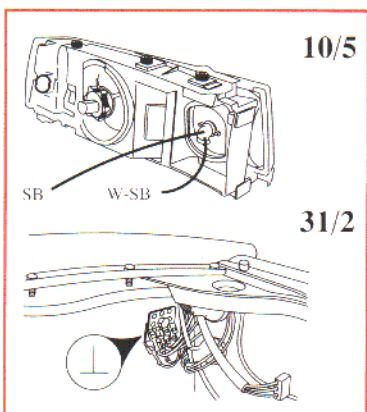
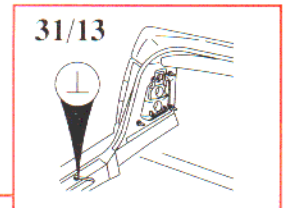
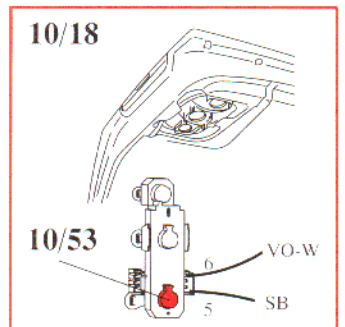
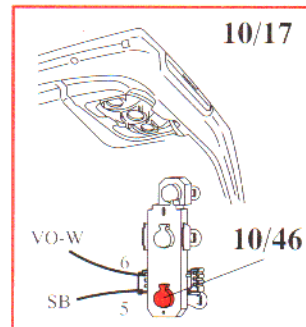
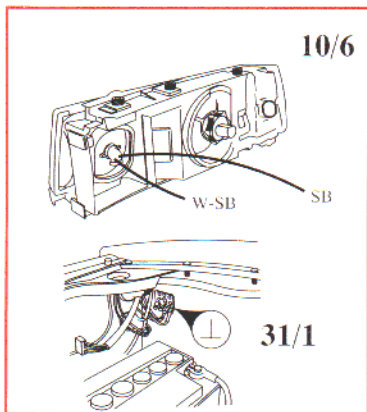
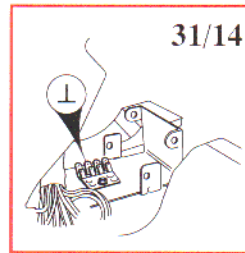
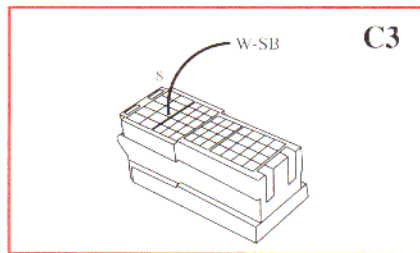
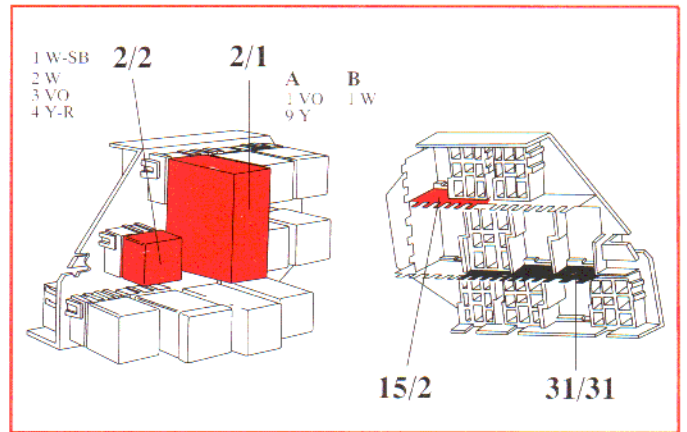
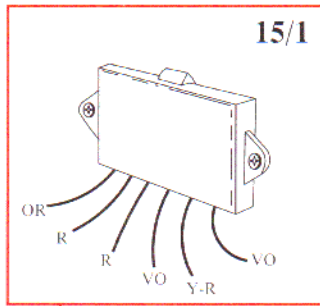
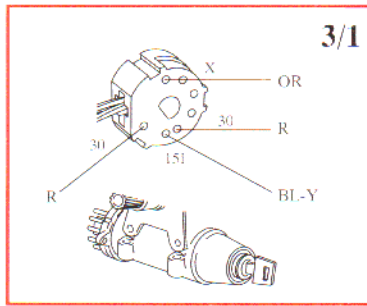


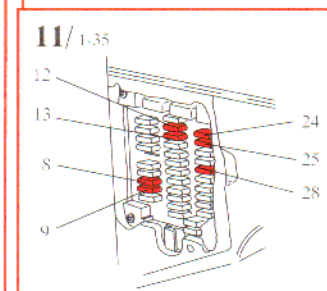
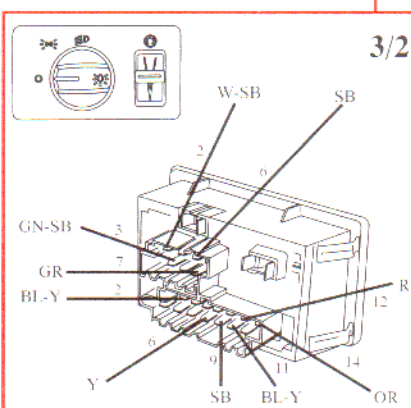
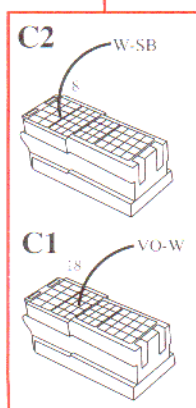
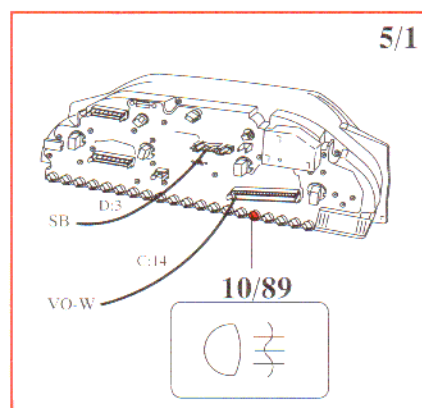
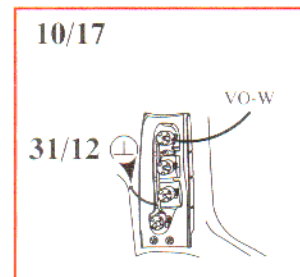
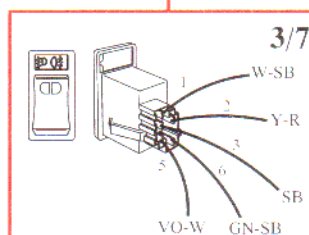
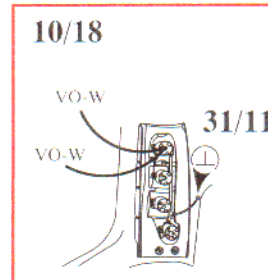
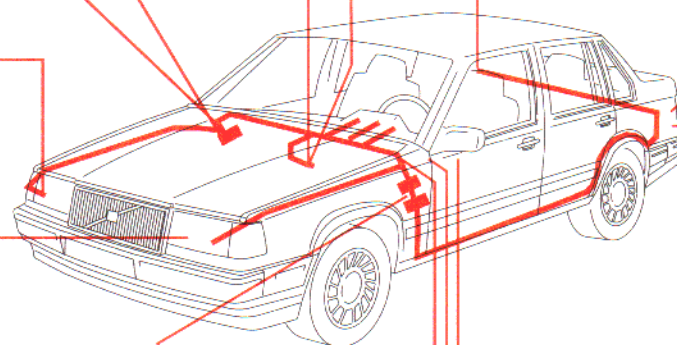
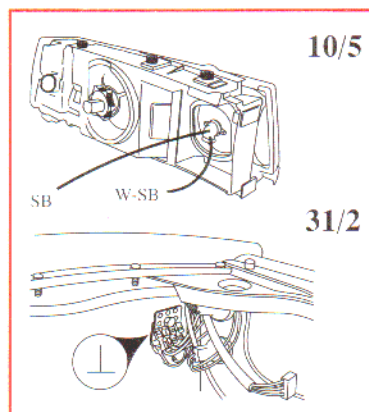
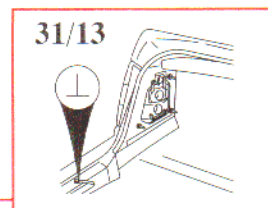
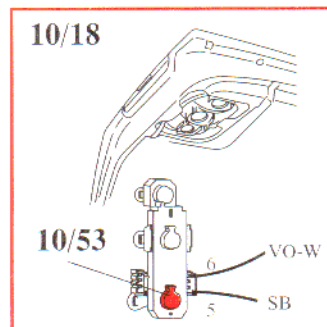
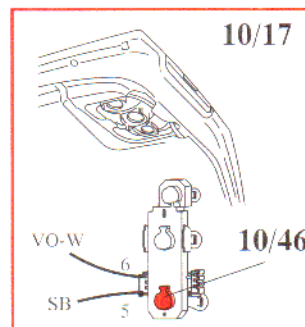
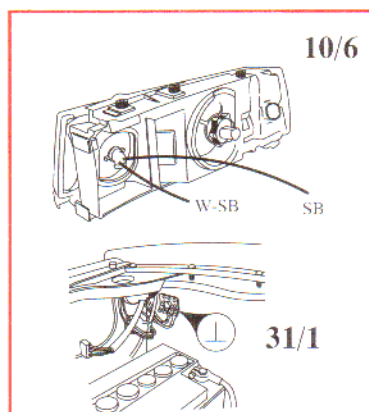
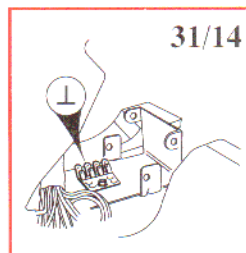
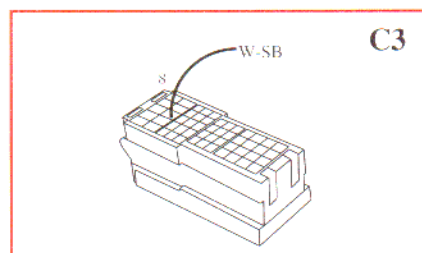
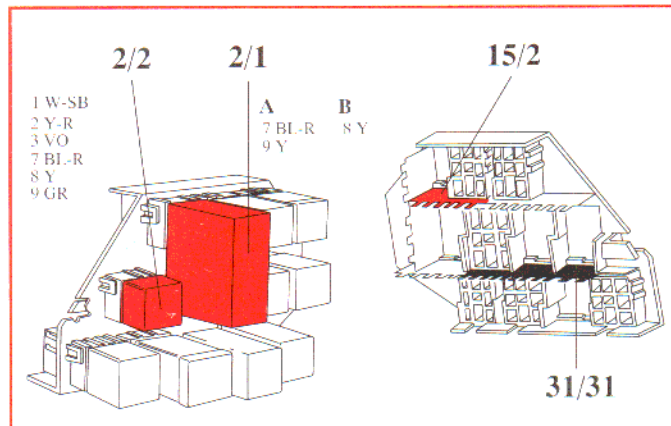
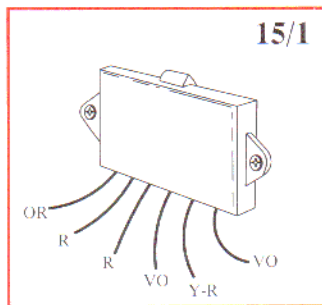
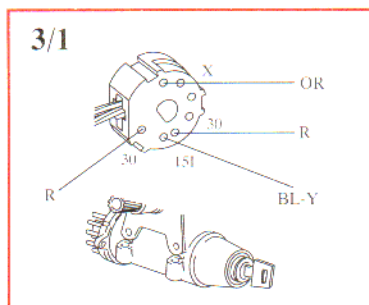


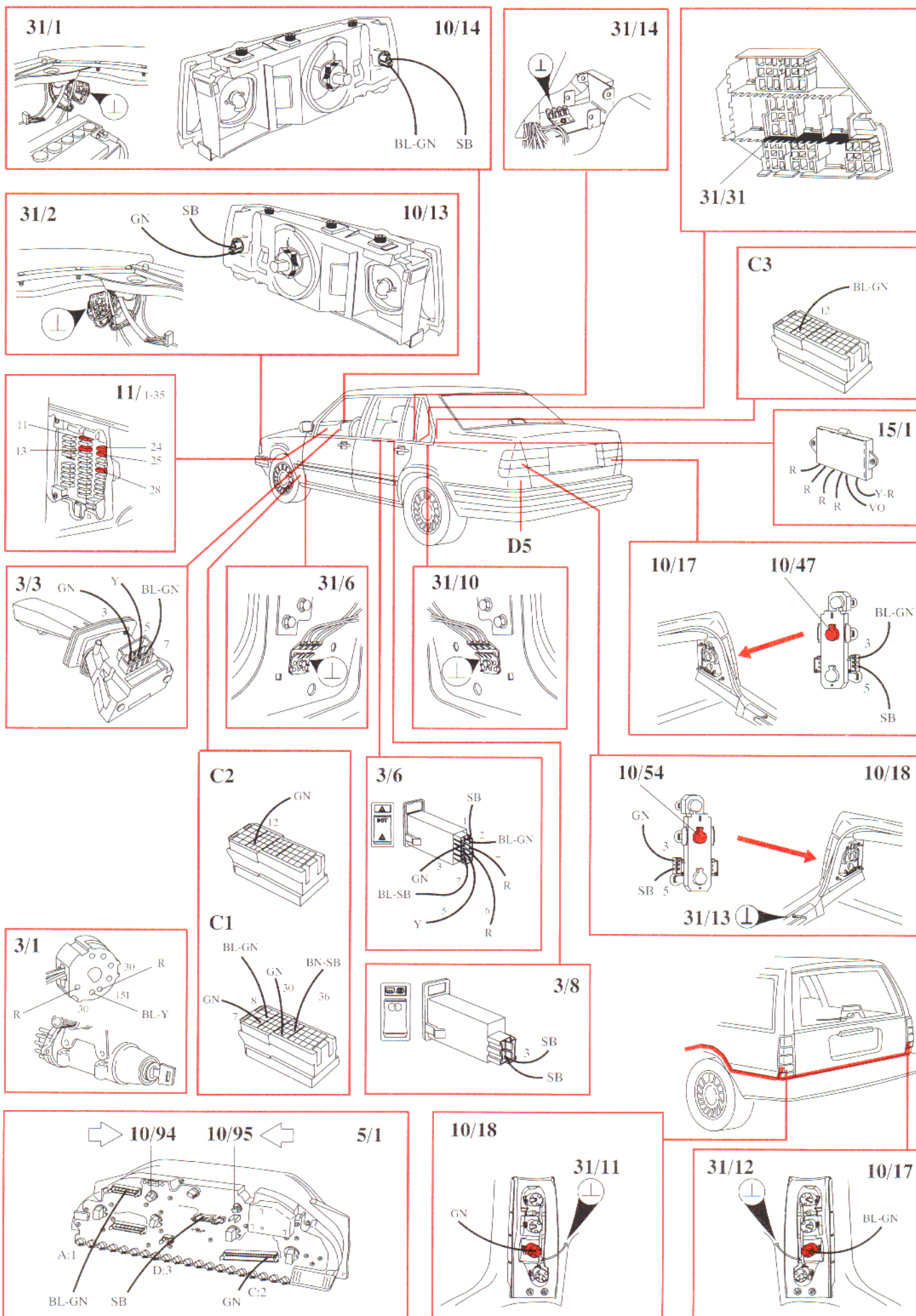




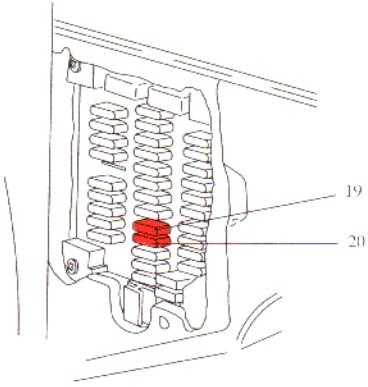




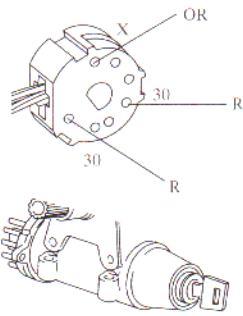




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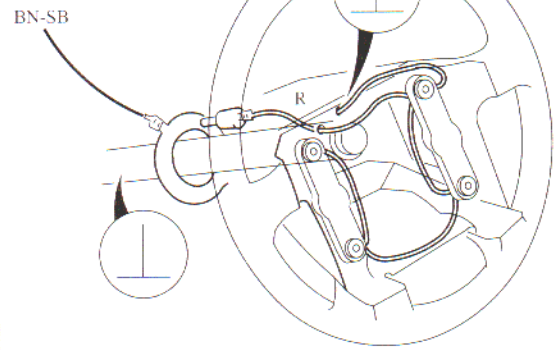


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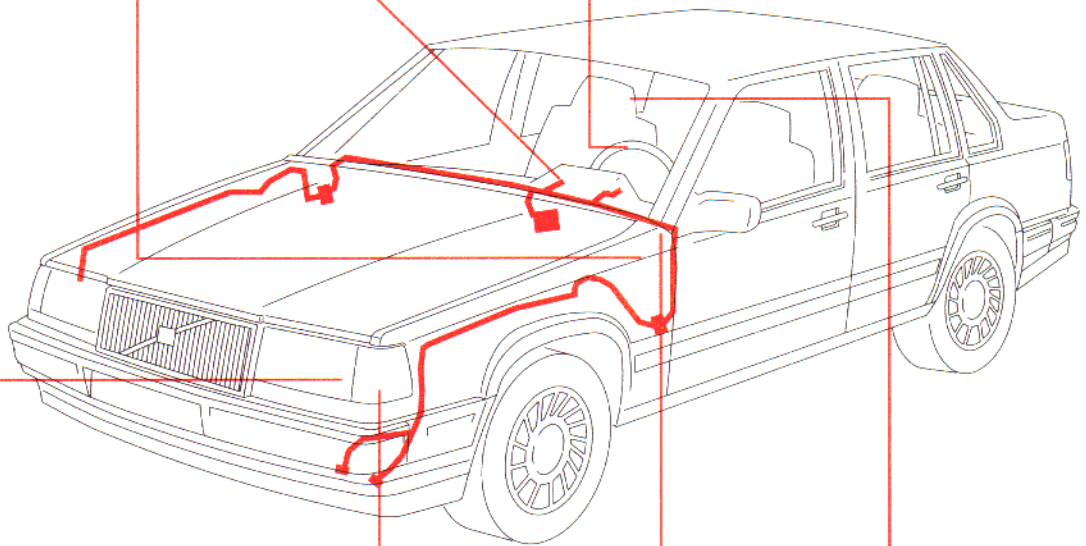
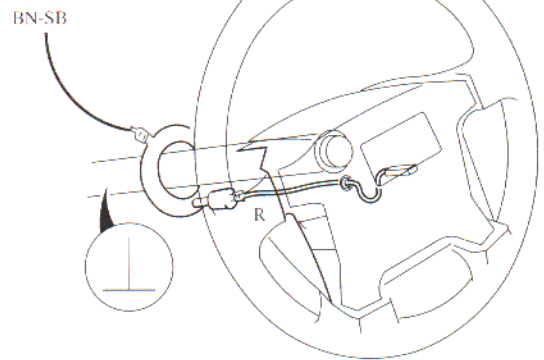


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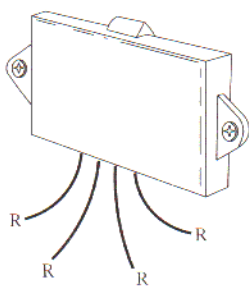
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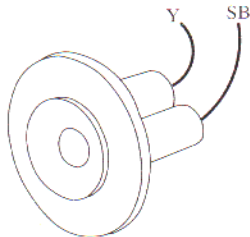
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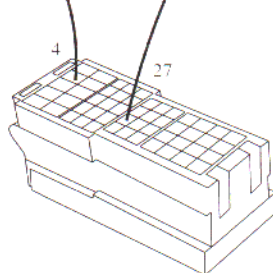
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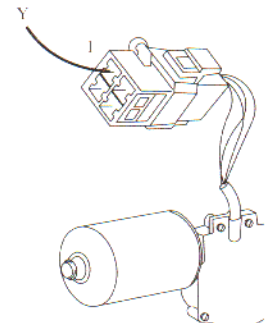
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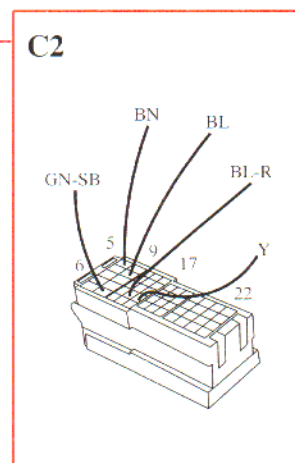
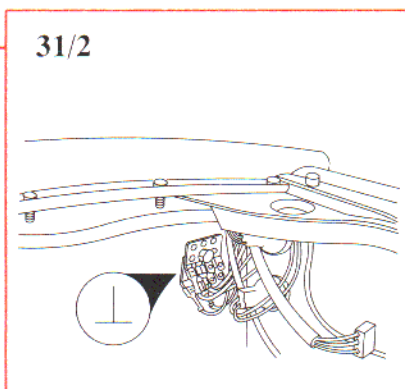
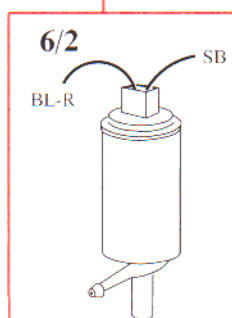
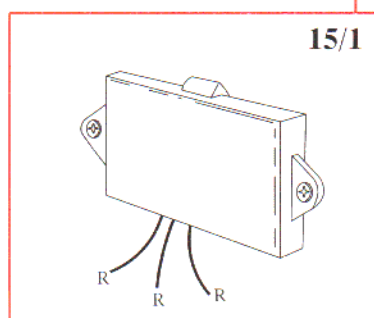
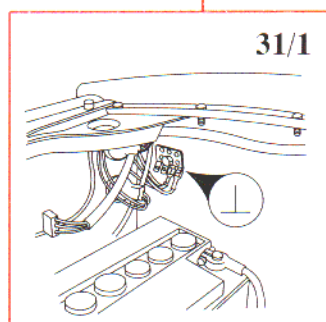
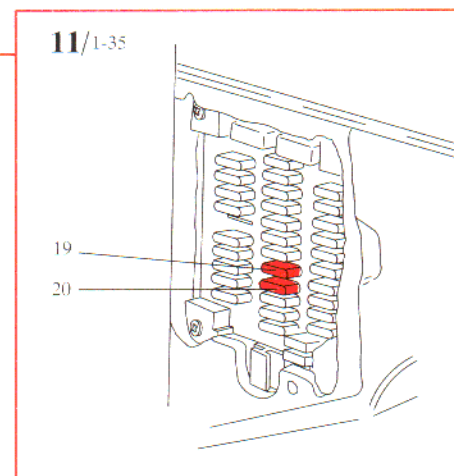
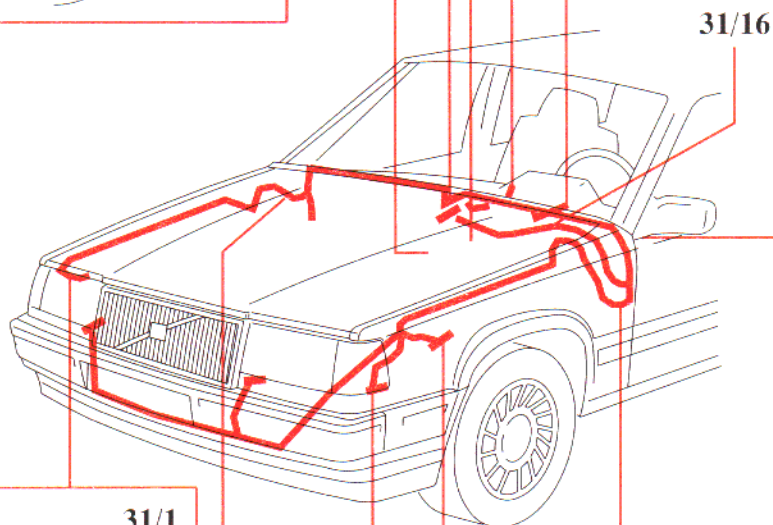
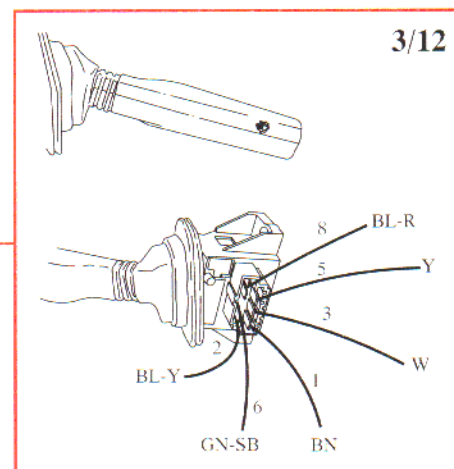
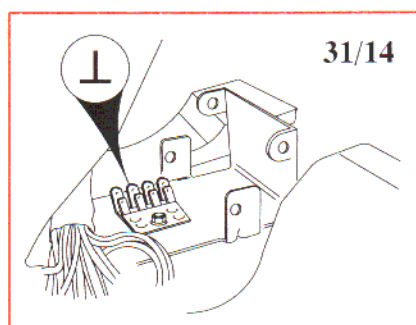
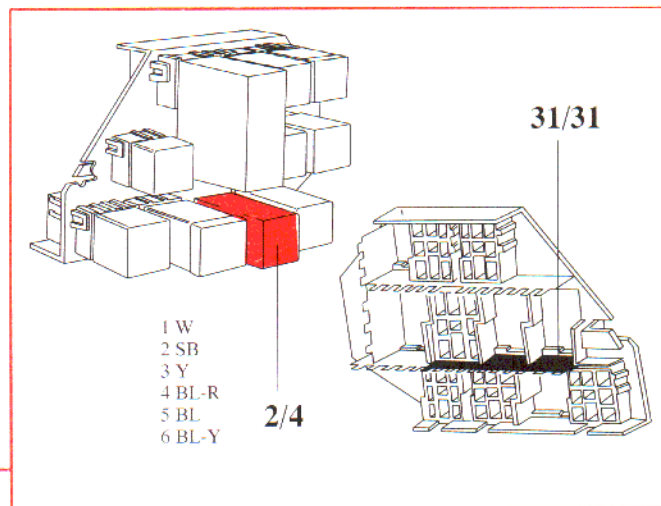
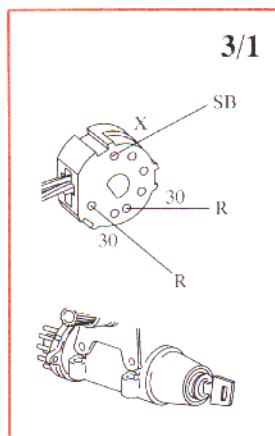
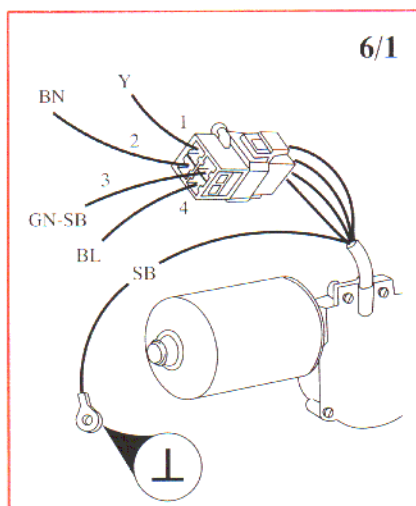


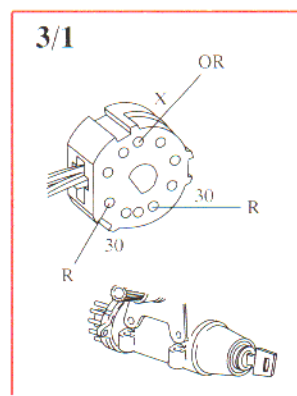
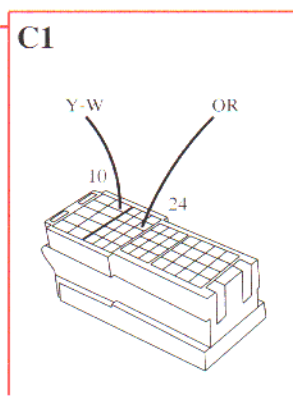
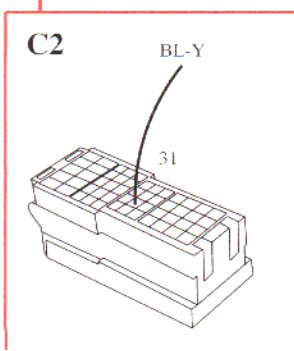
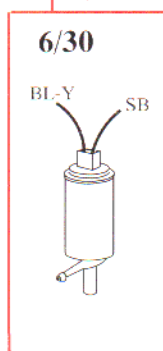
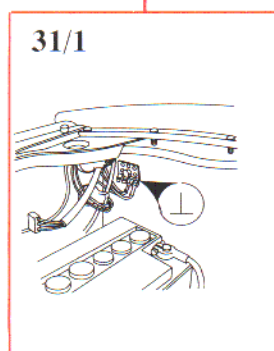
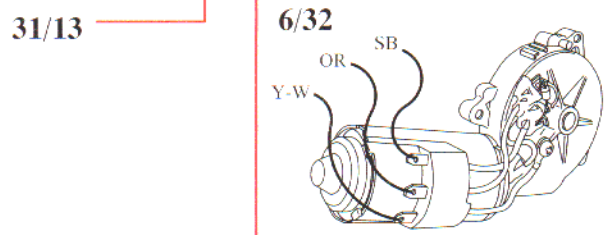
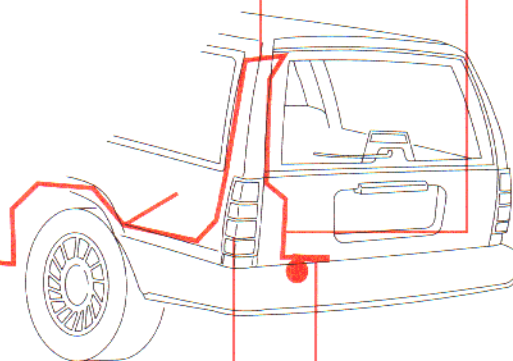
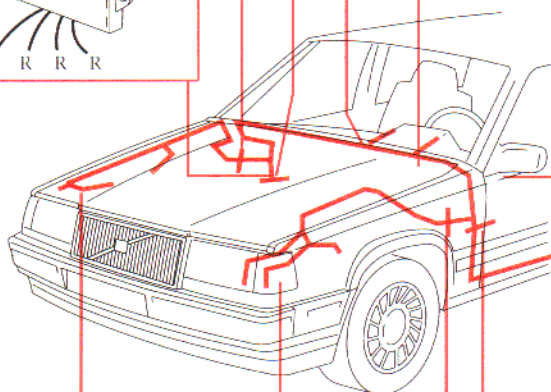
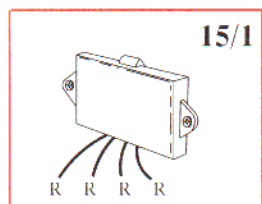
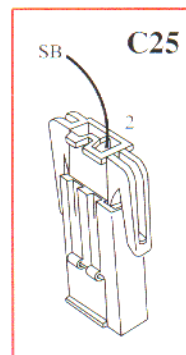
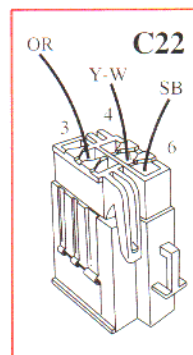
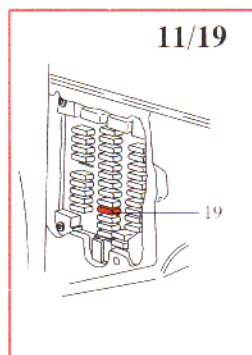
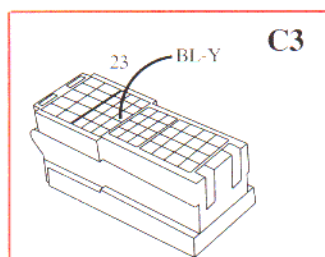
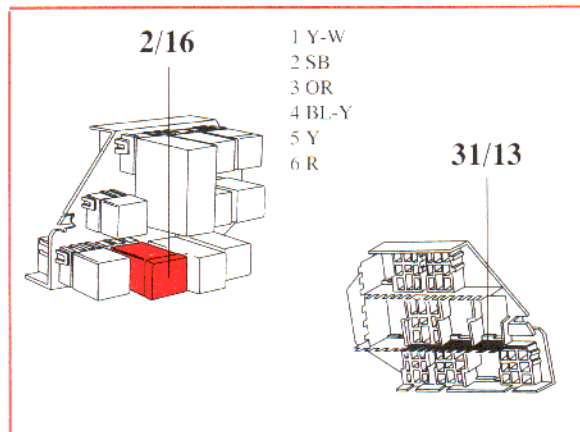
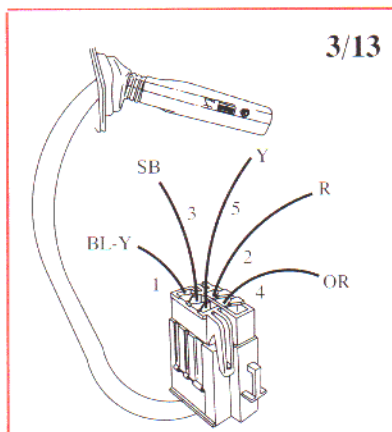
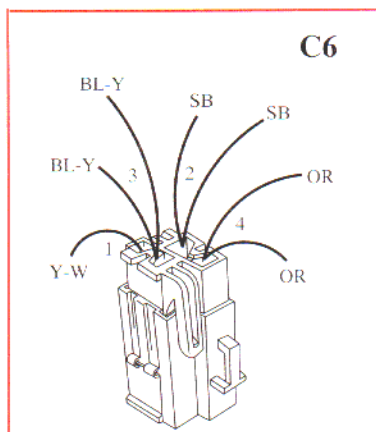
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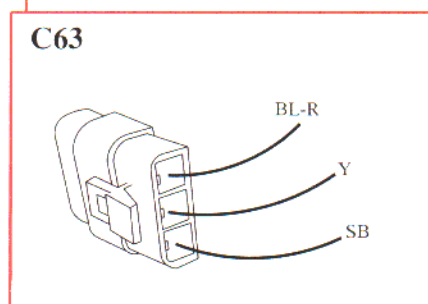
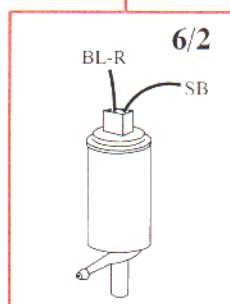
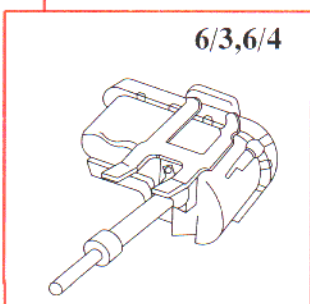
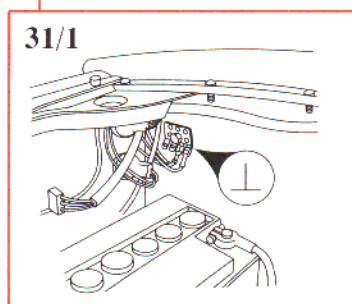
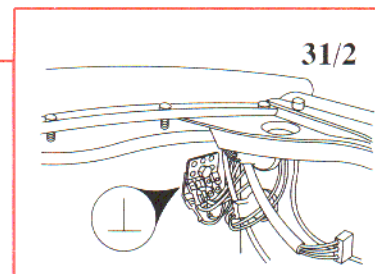
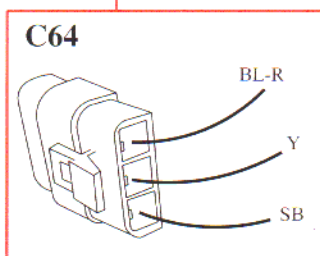
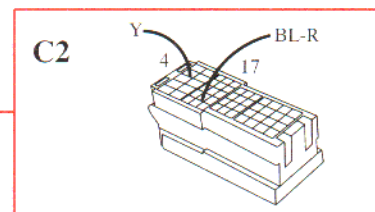
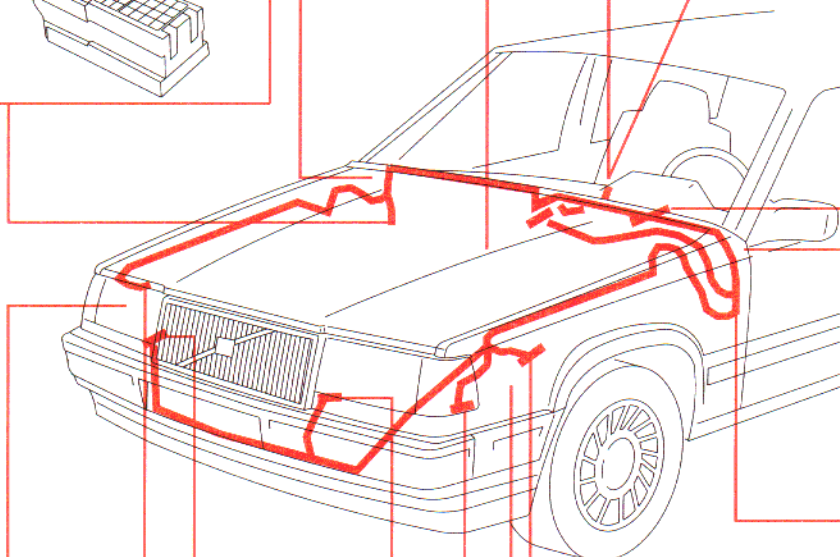
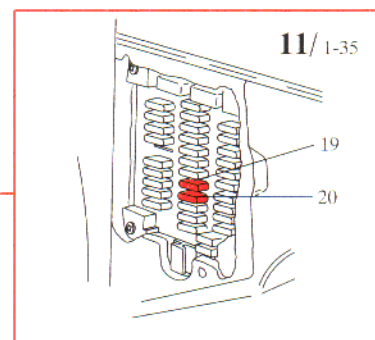
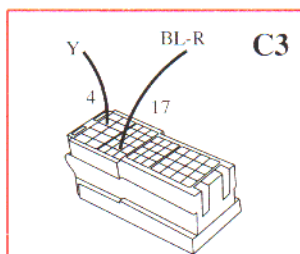
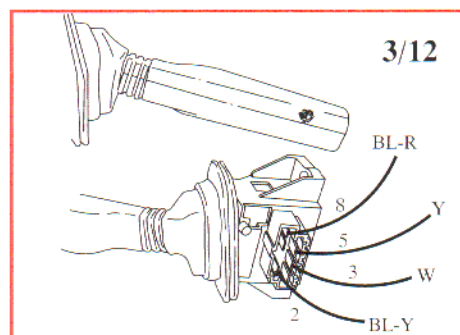
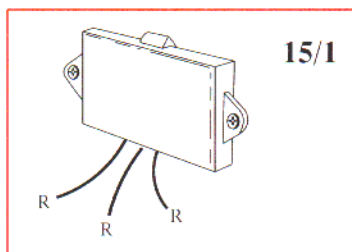
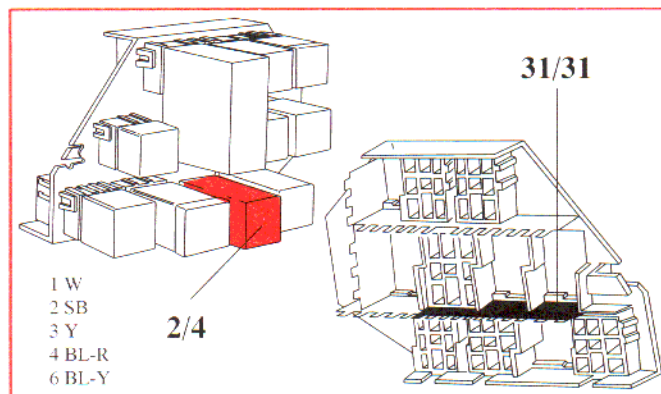
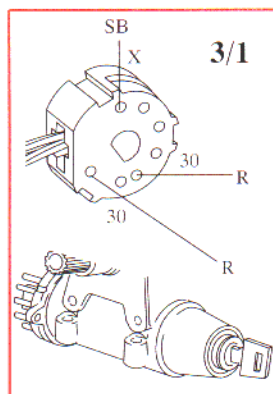
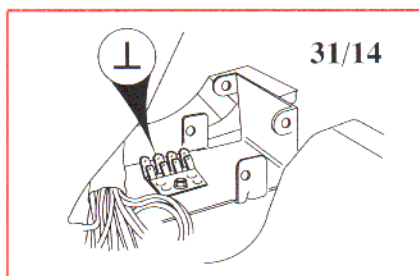


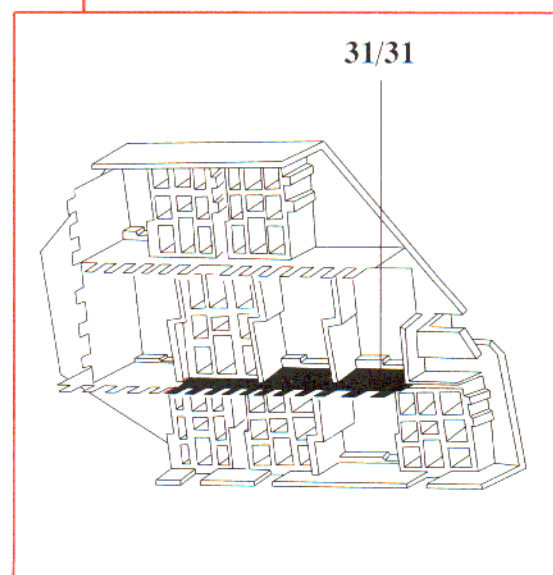
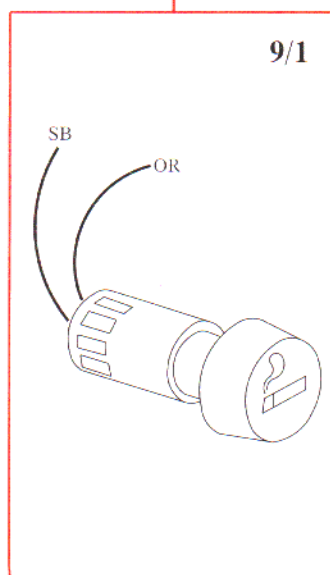
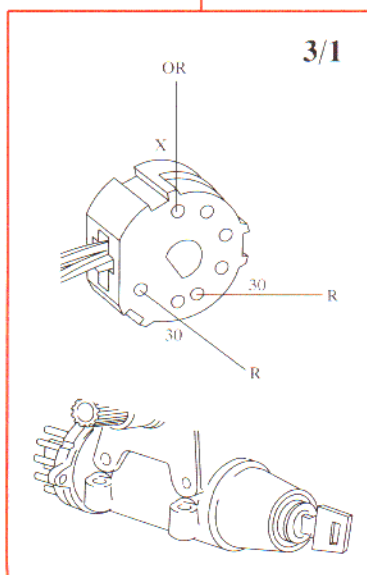
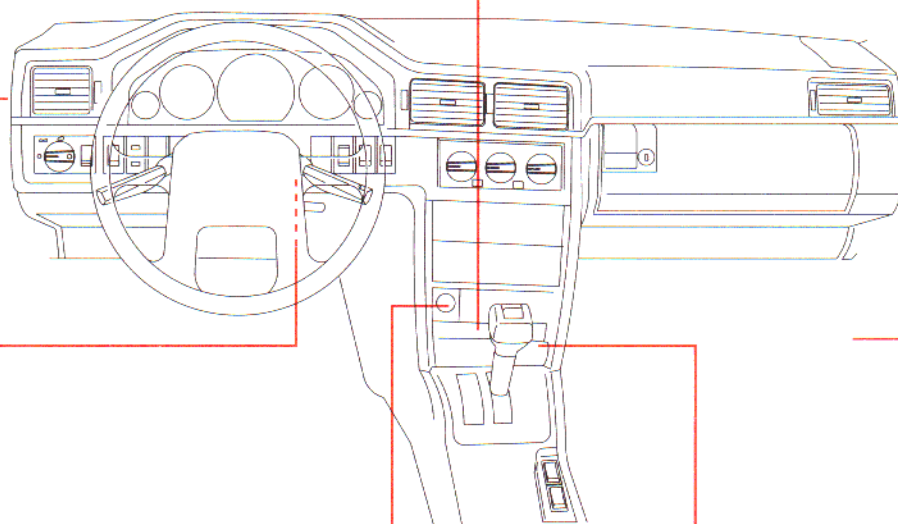
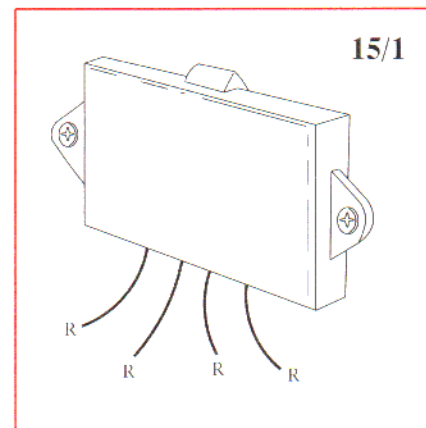
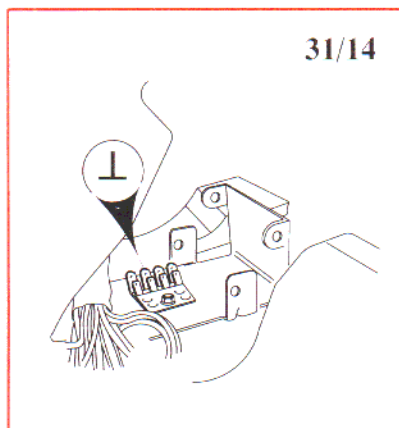
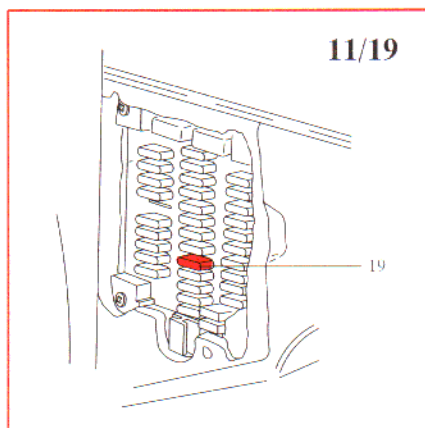
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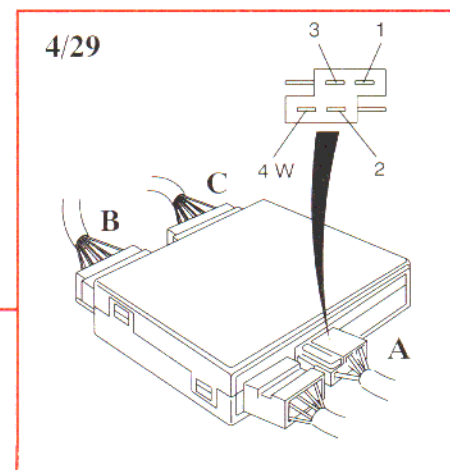
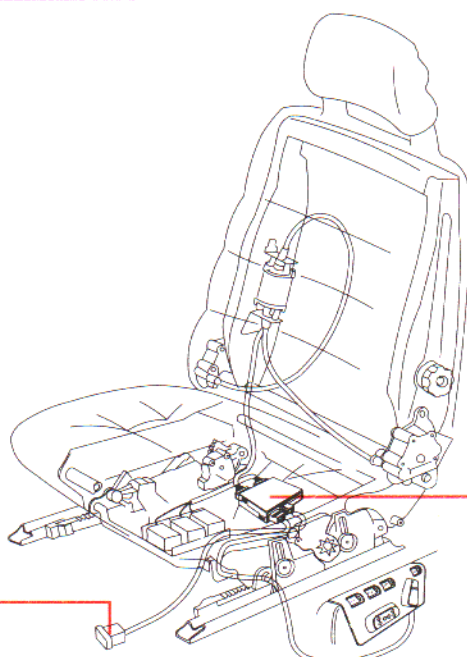
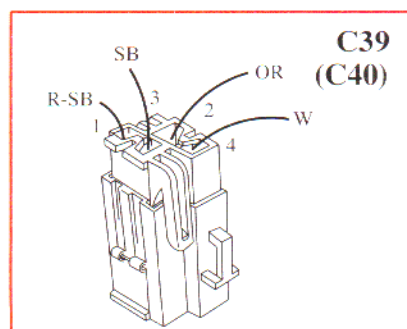
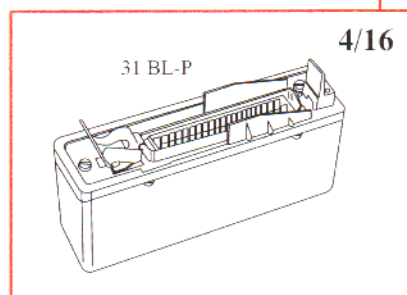
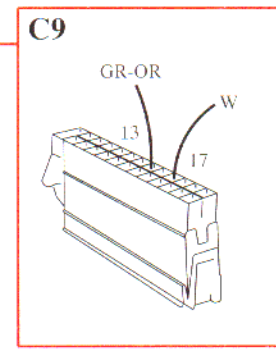
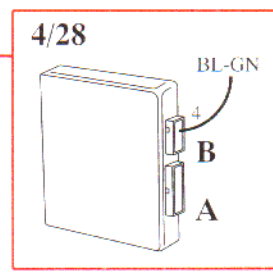
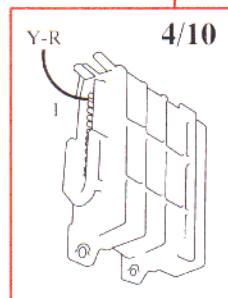
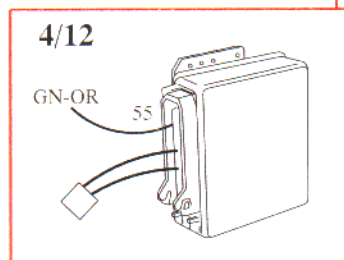
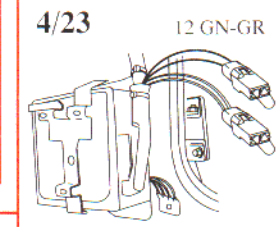
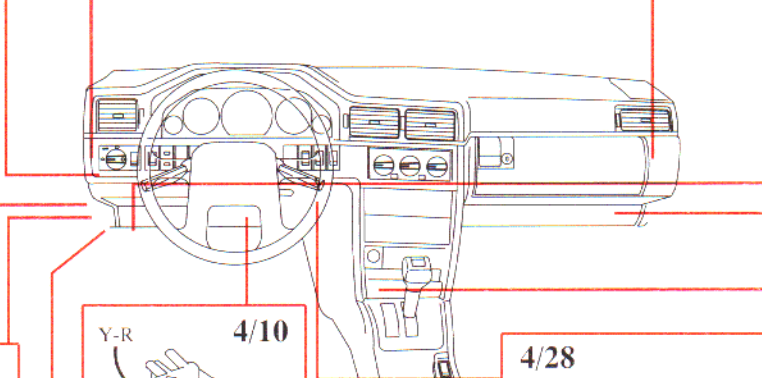
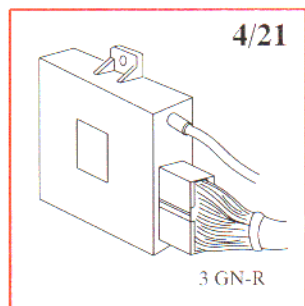
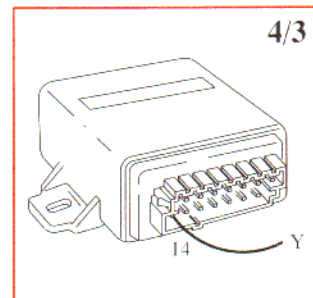
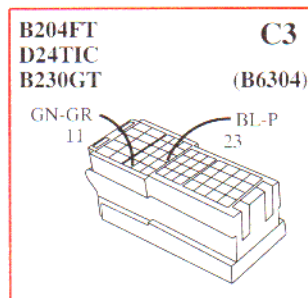
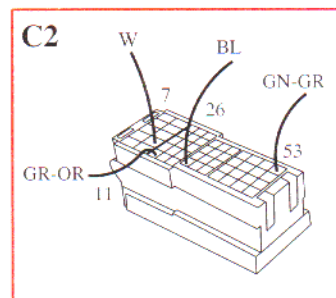
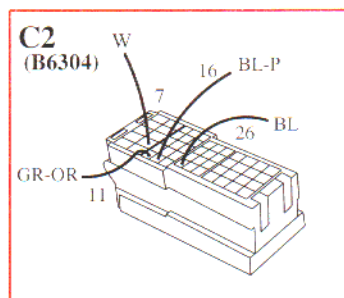
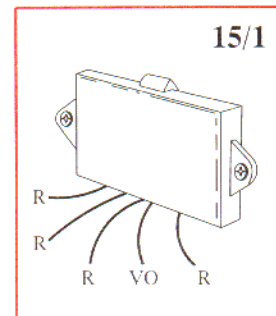
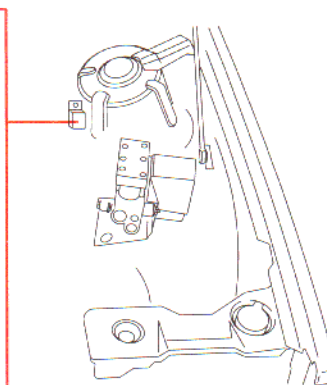
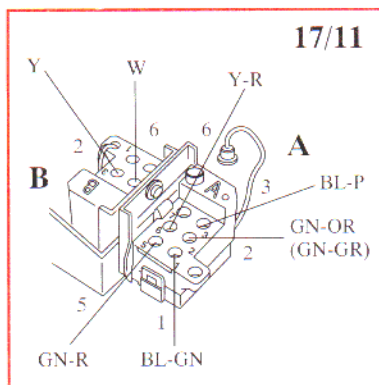
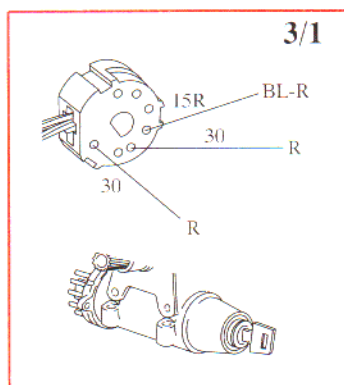


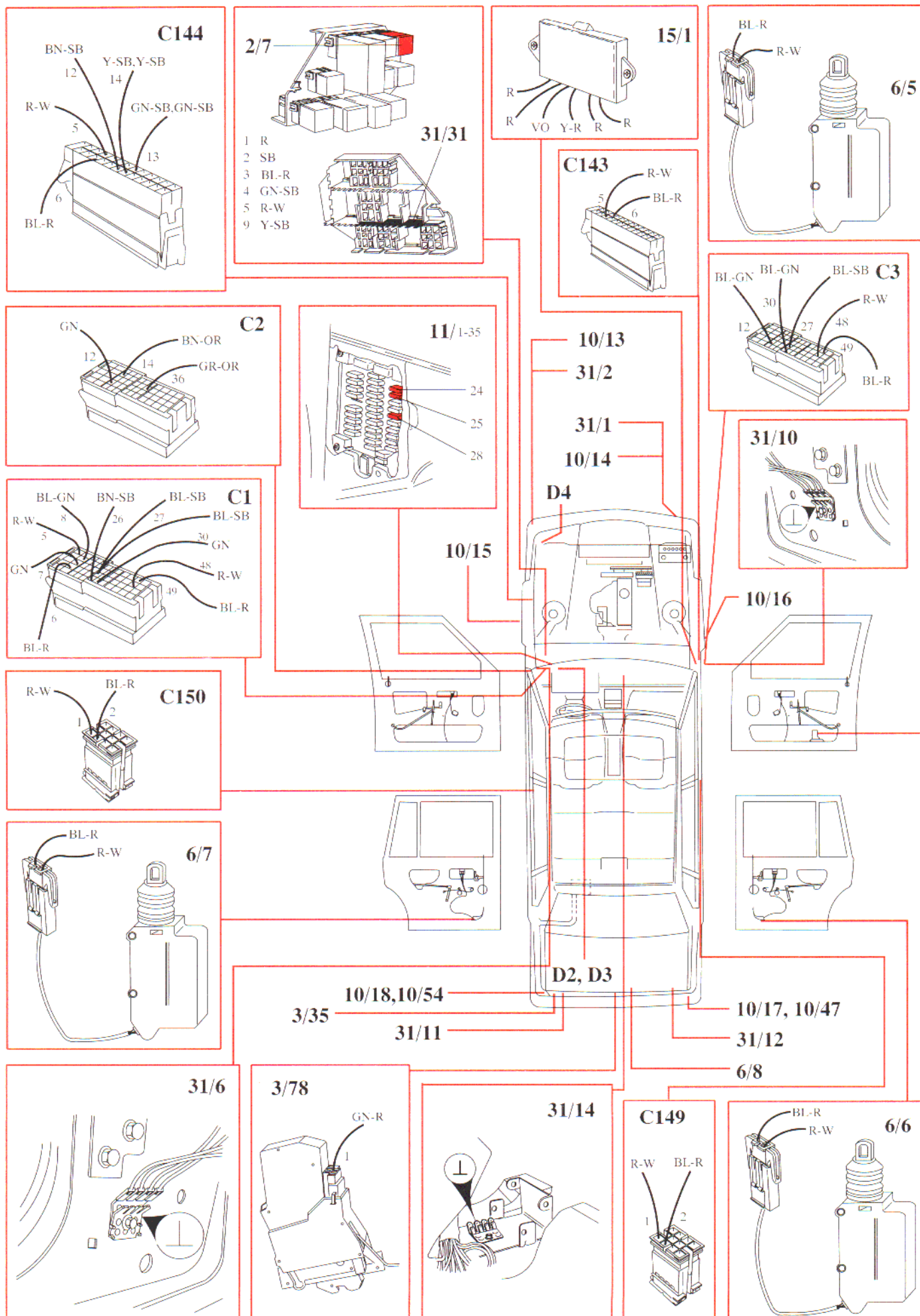


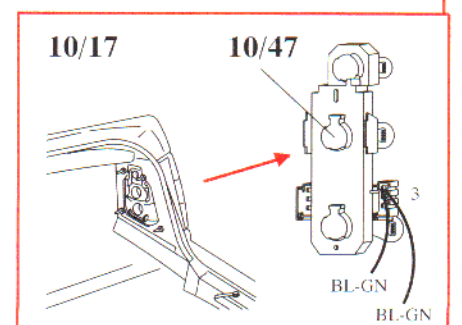
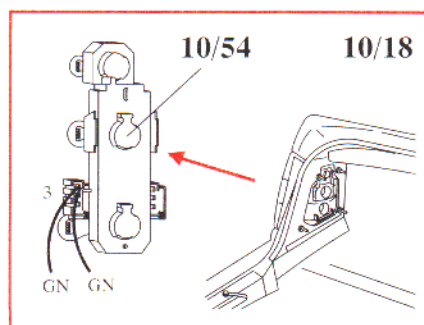
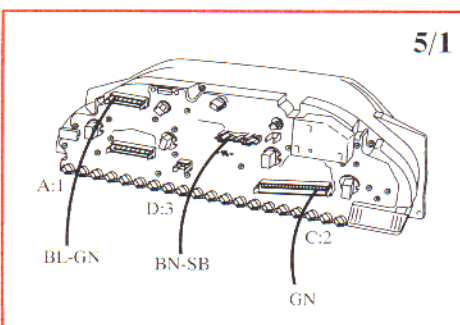
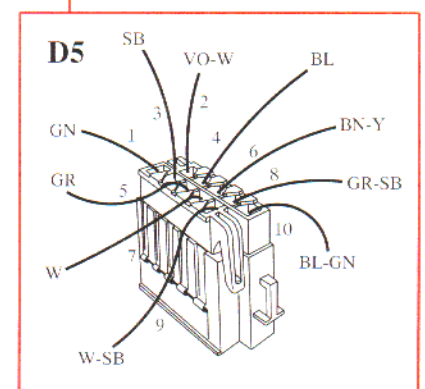
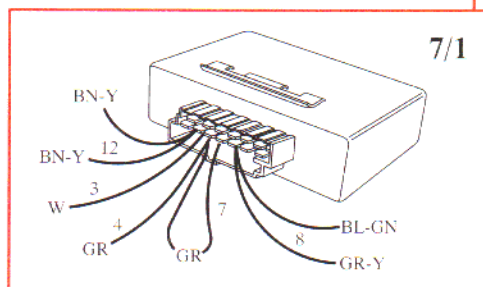
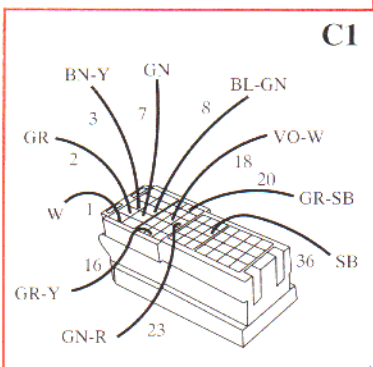
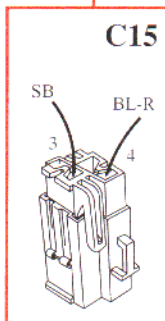
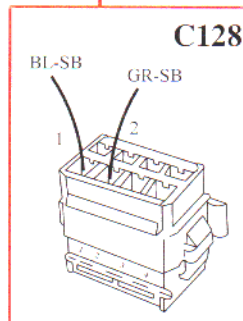
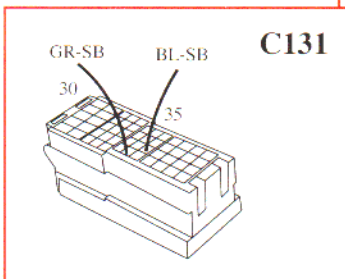
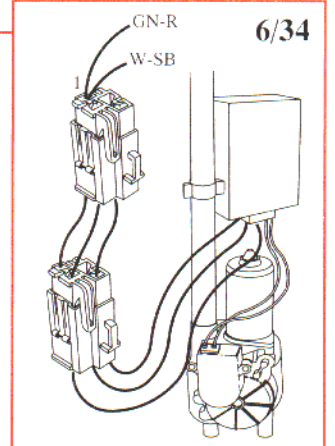
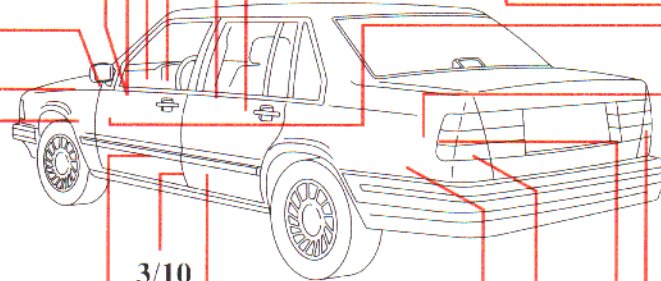
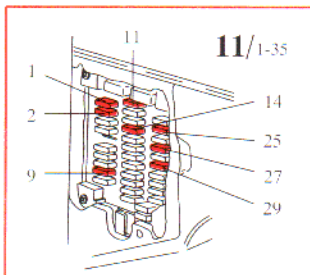
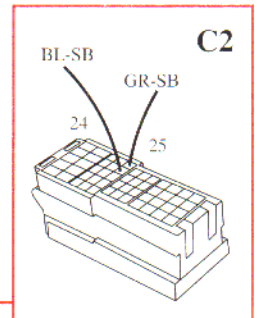
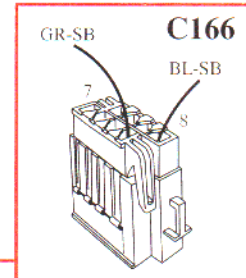
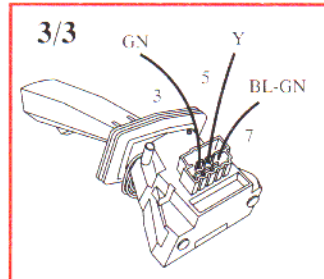
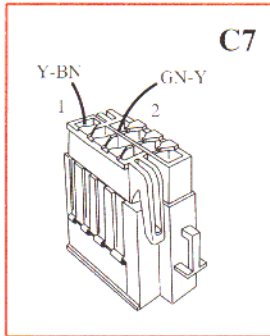
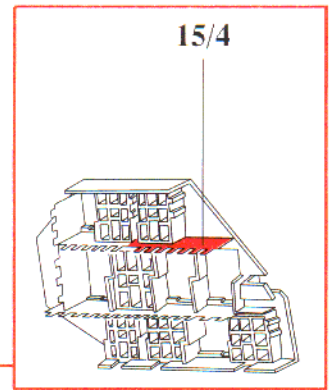
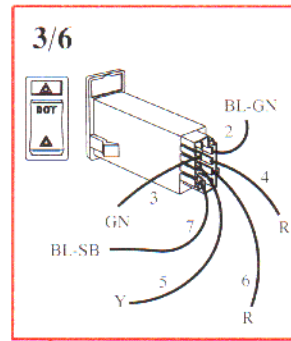
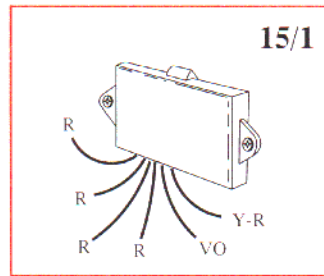
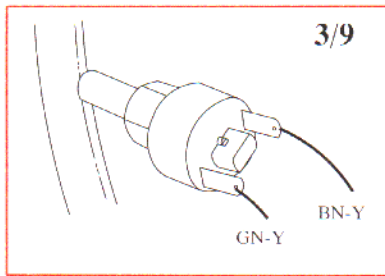




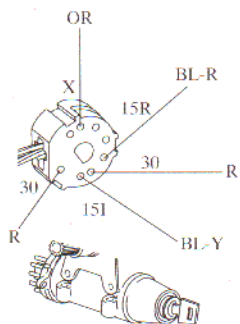




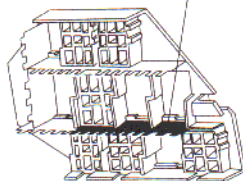




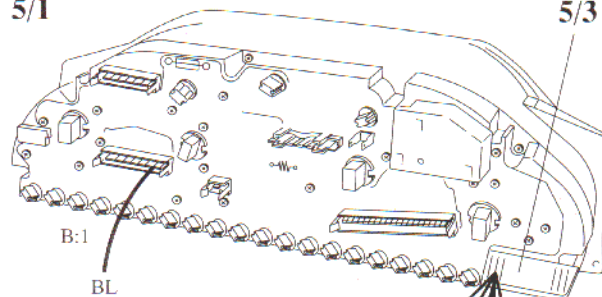
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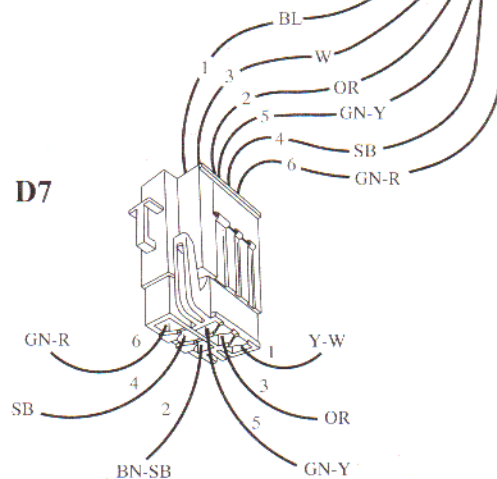
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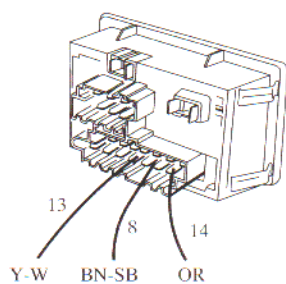
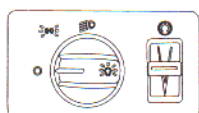
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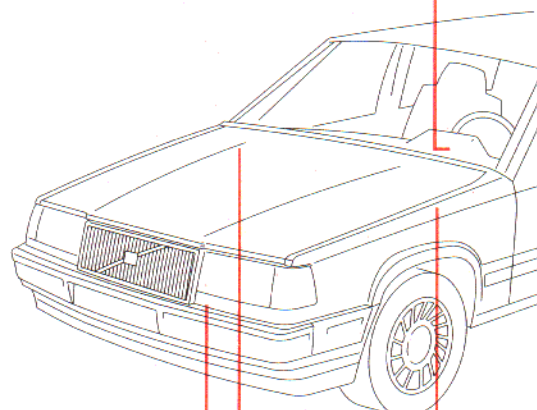
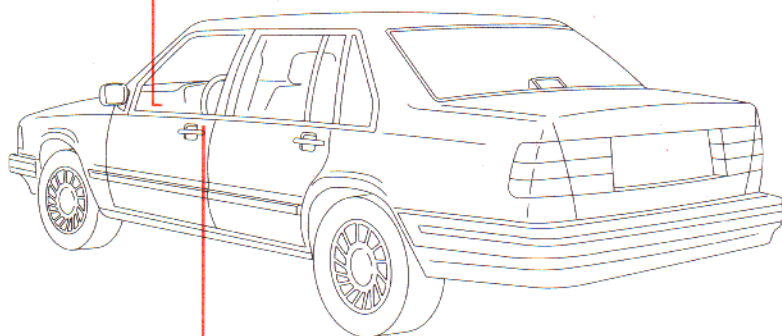
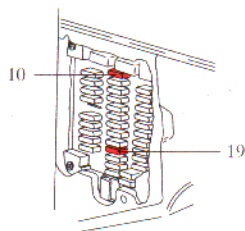
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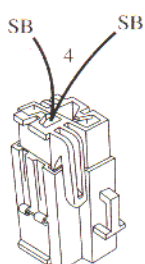
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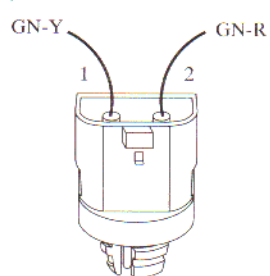
11/1-35



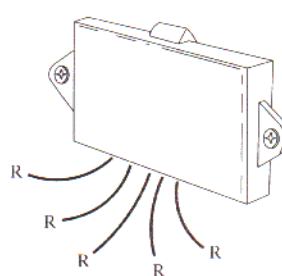
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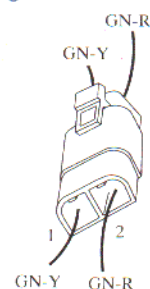
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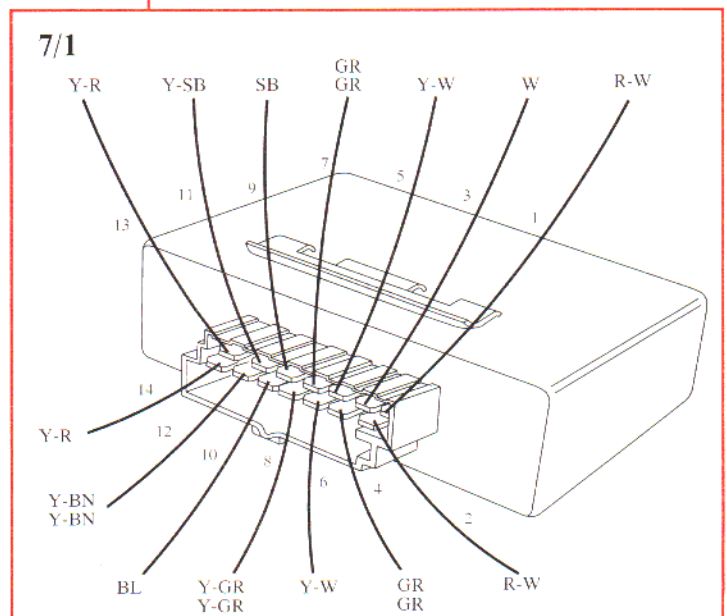
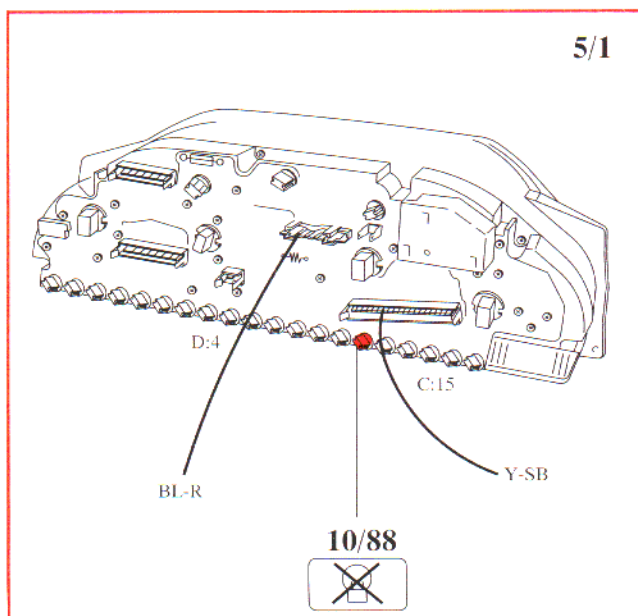
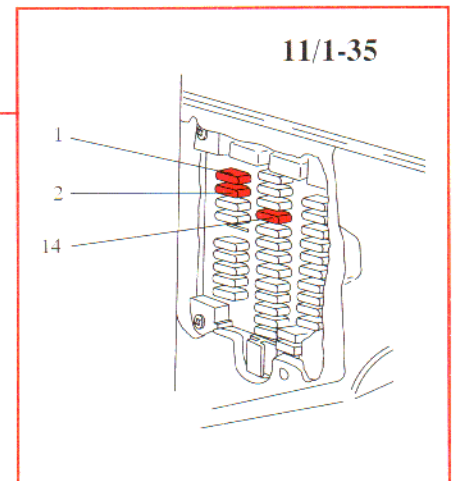
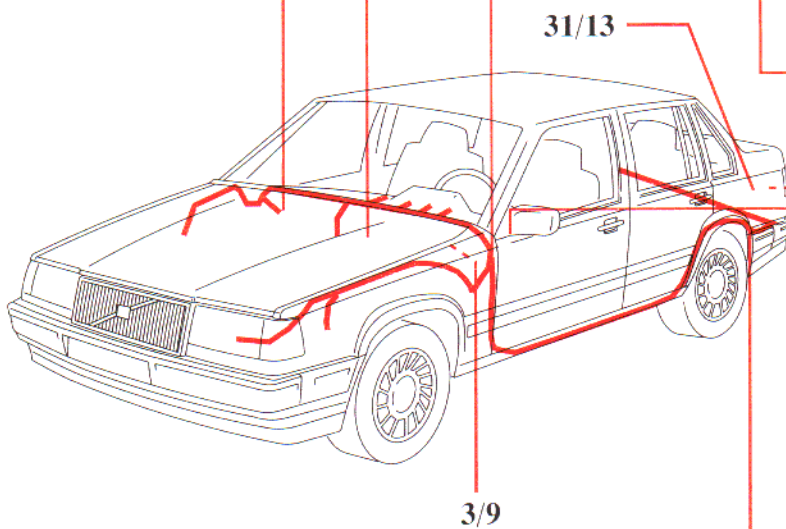
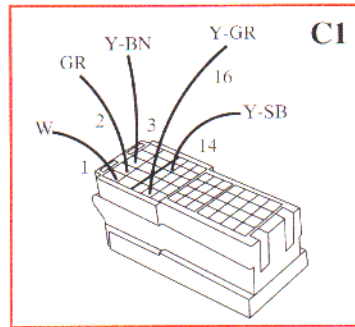
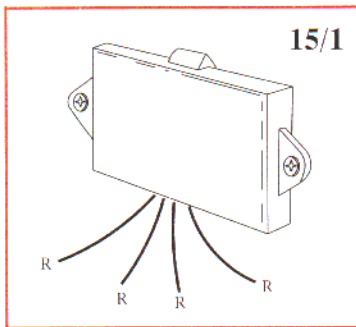
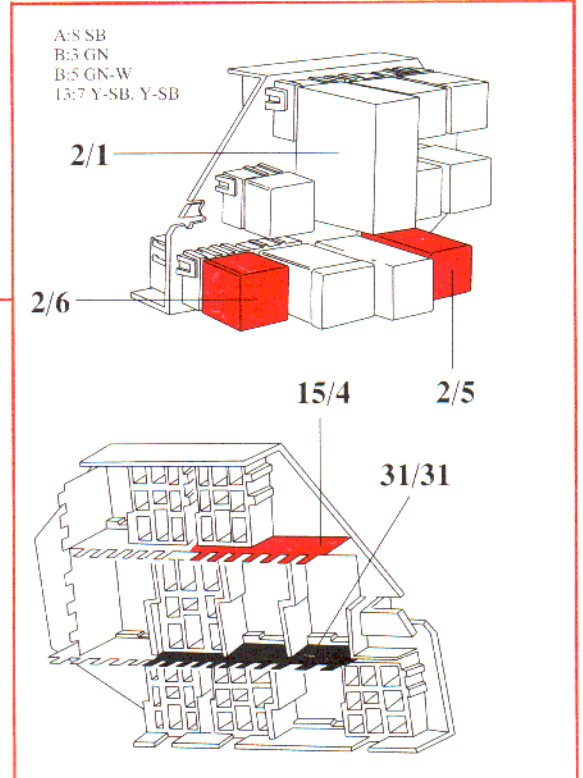
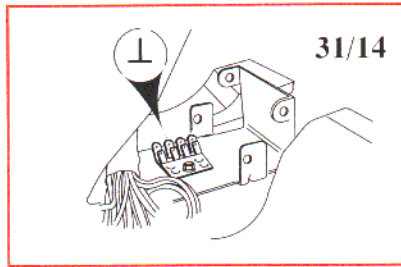
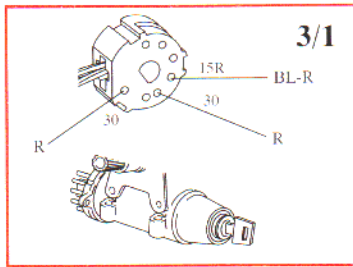


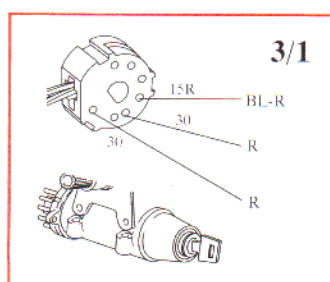
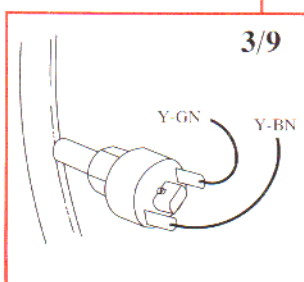
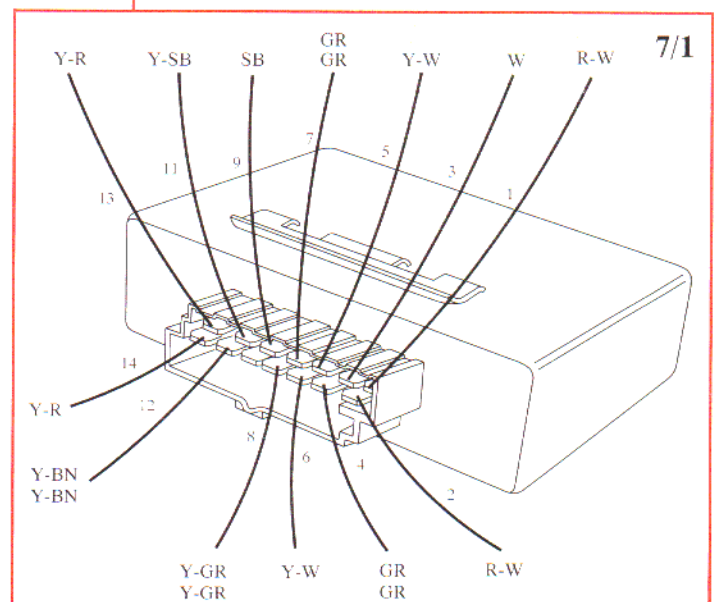
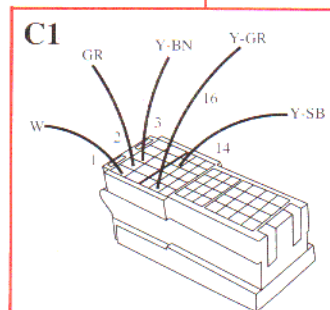
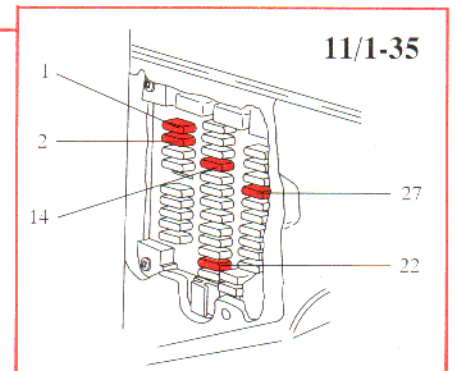
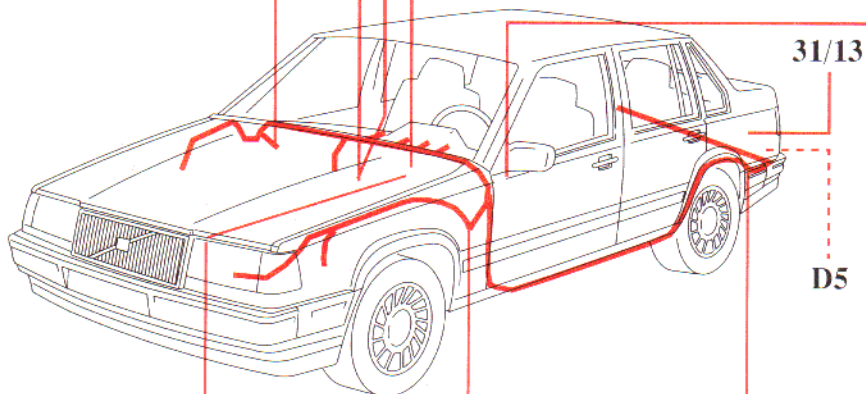
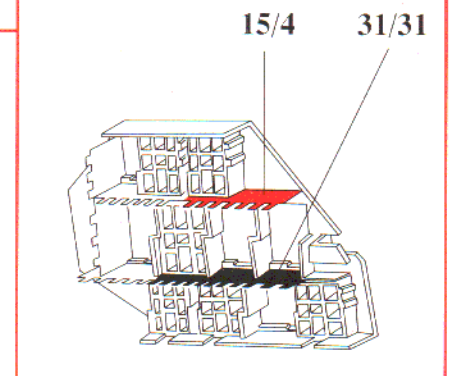
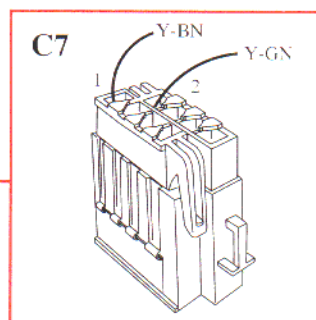
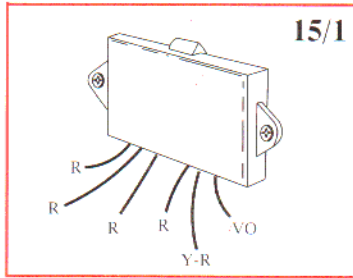
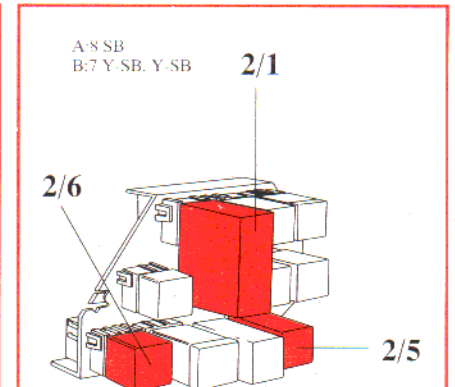
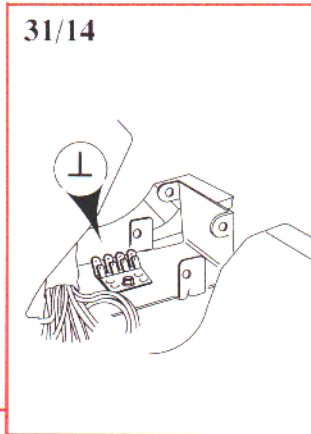
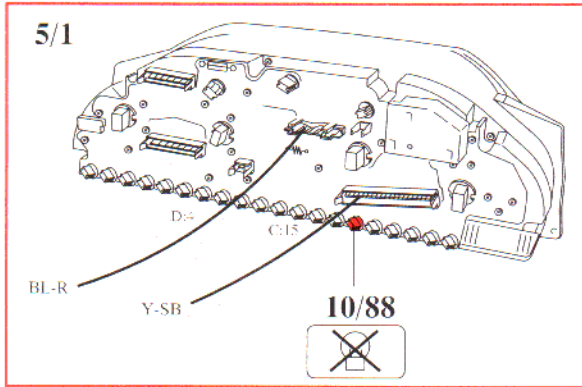
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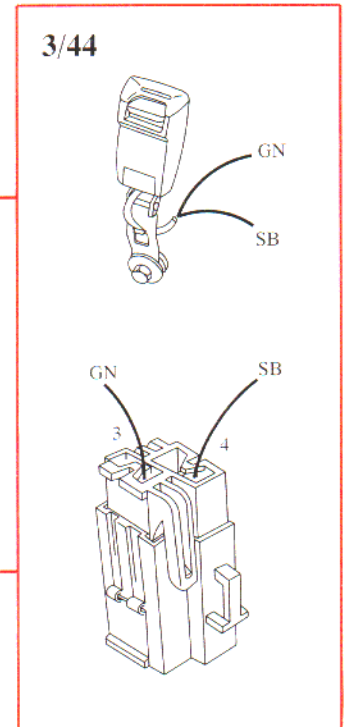
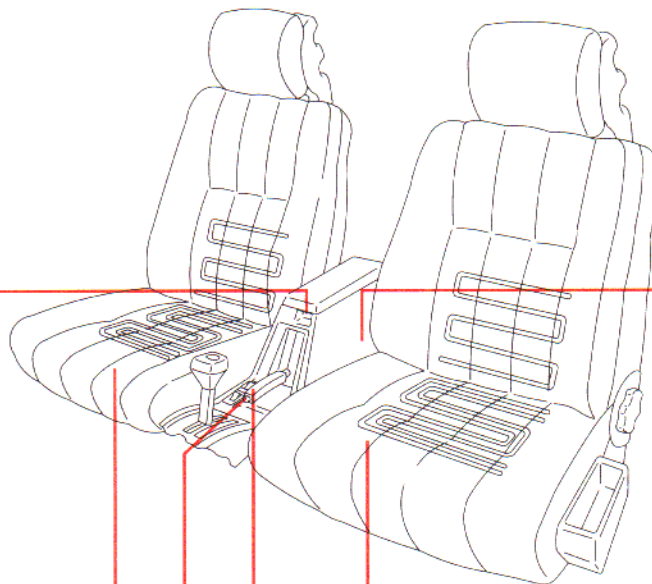
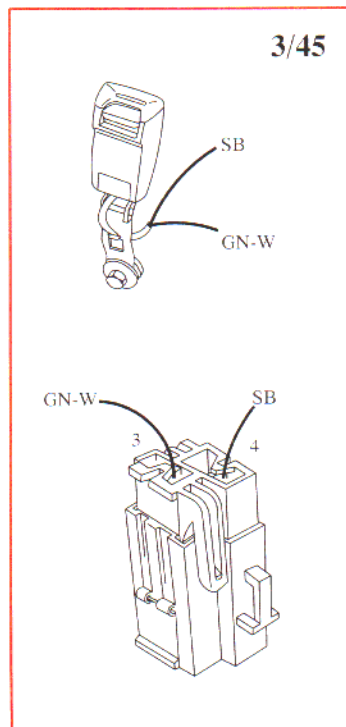
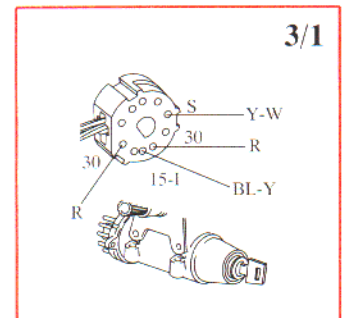
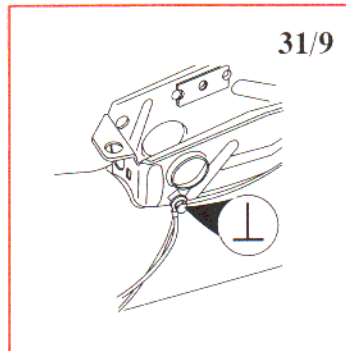
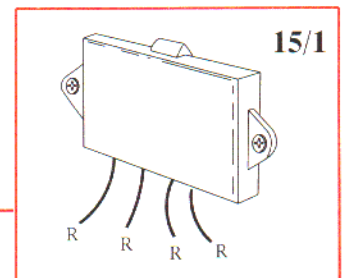
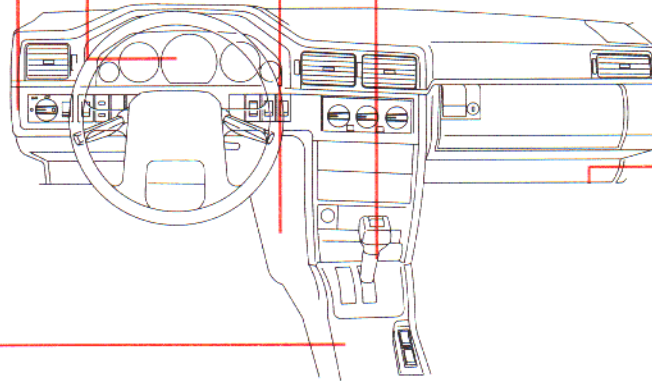
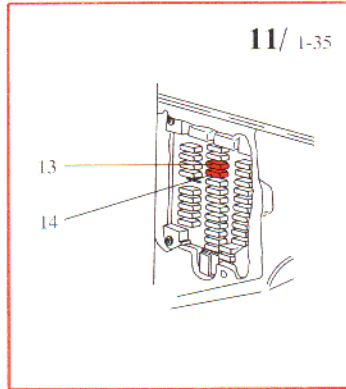
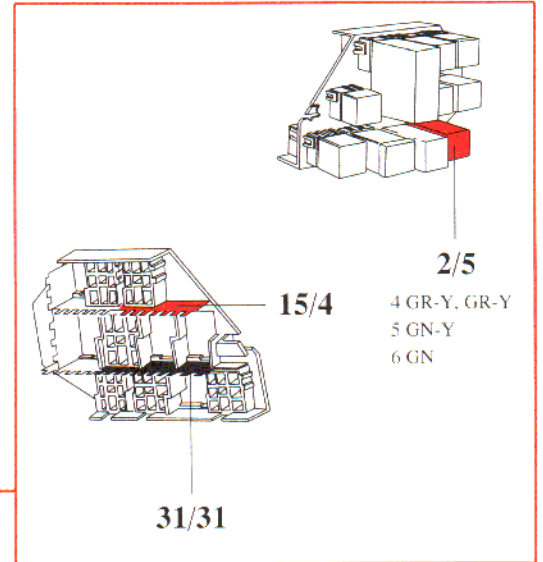
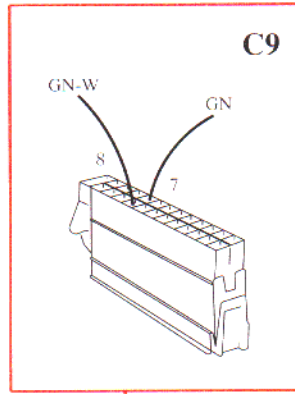
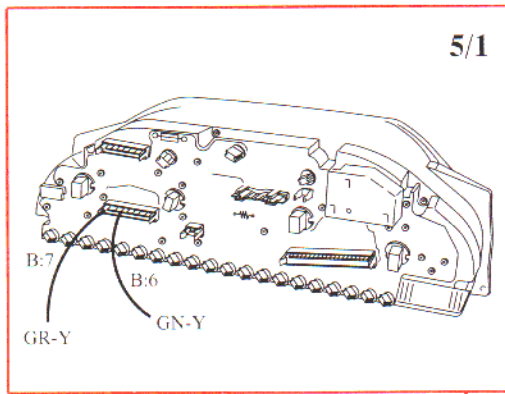


D6



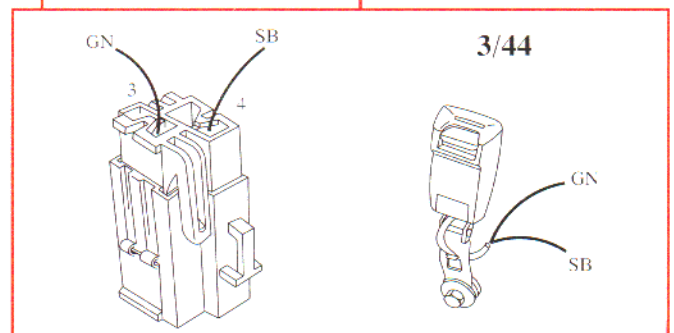
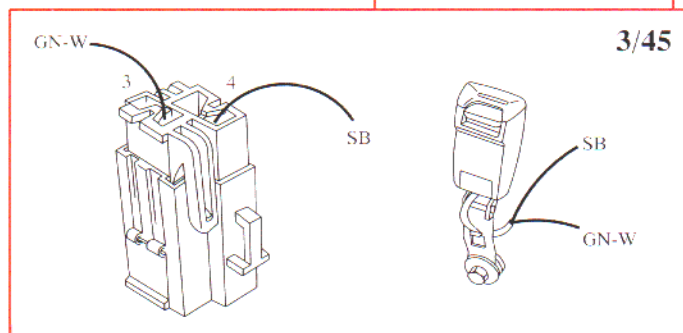
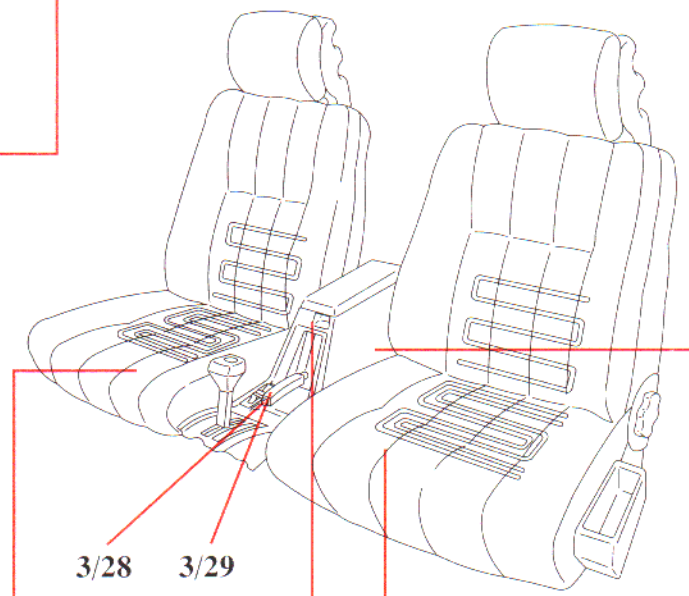
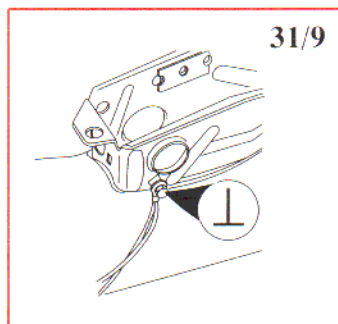
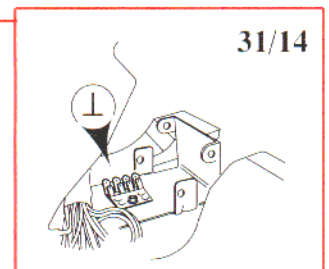
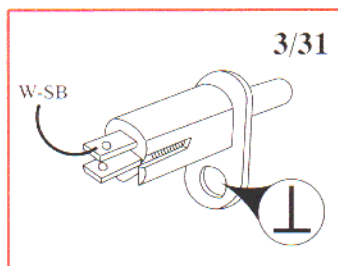
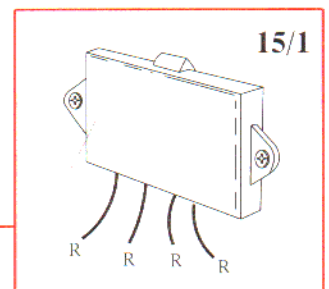
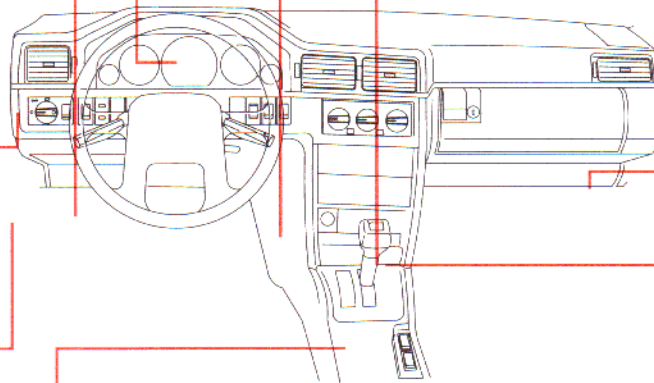
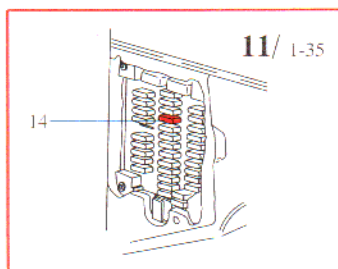
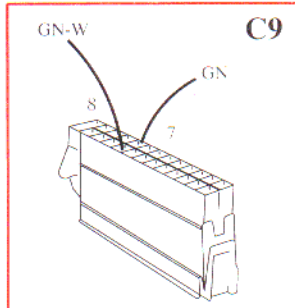
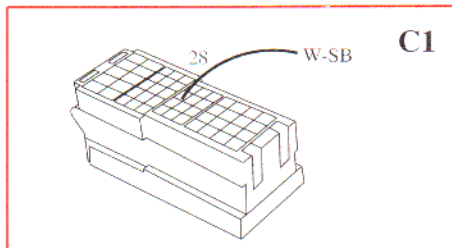
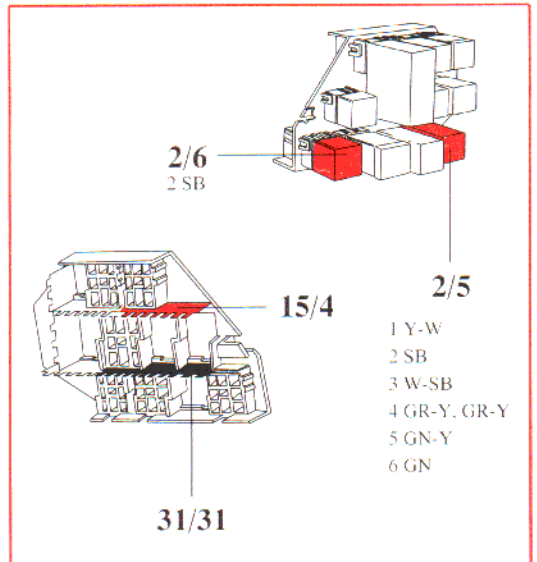
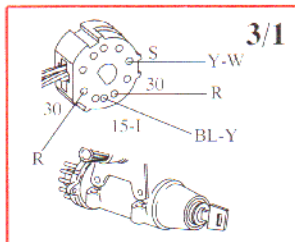
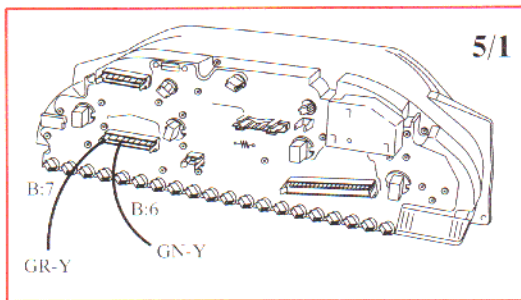


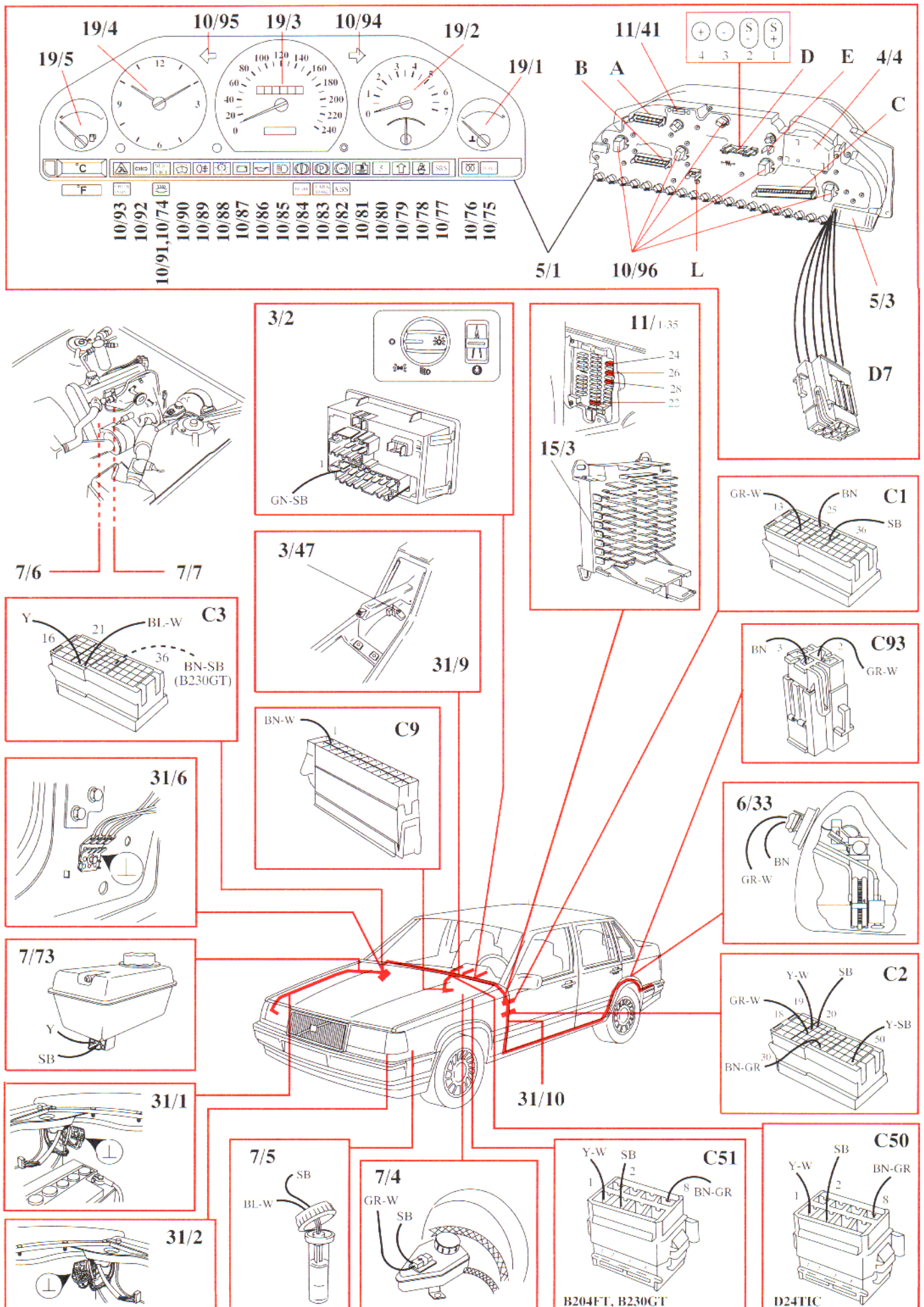


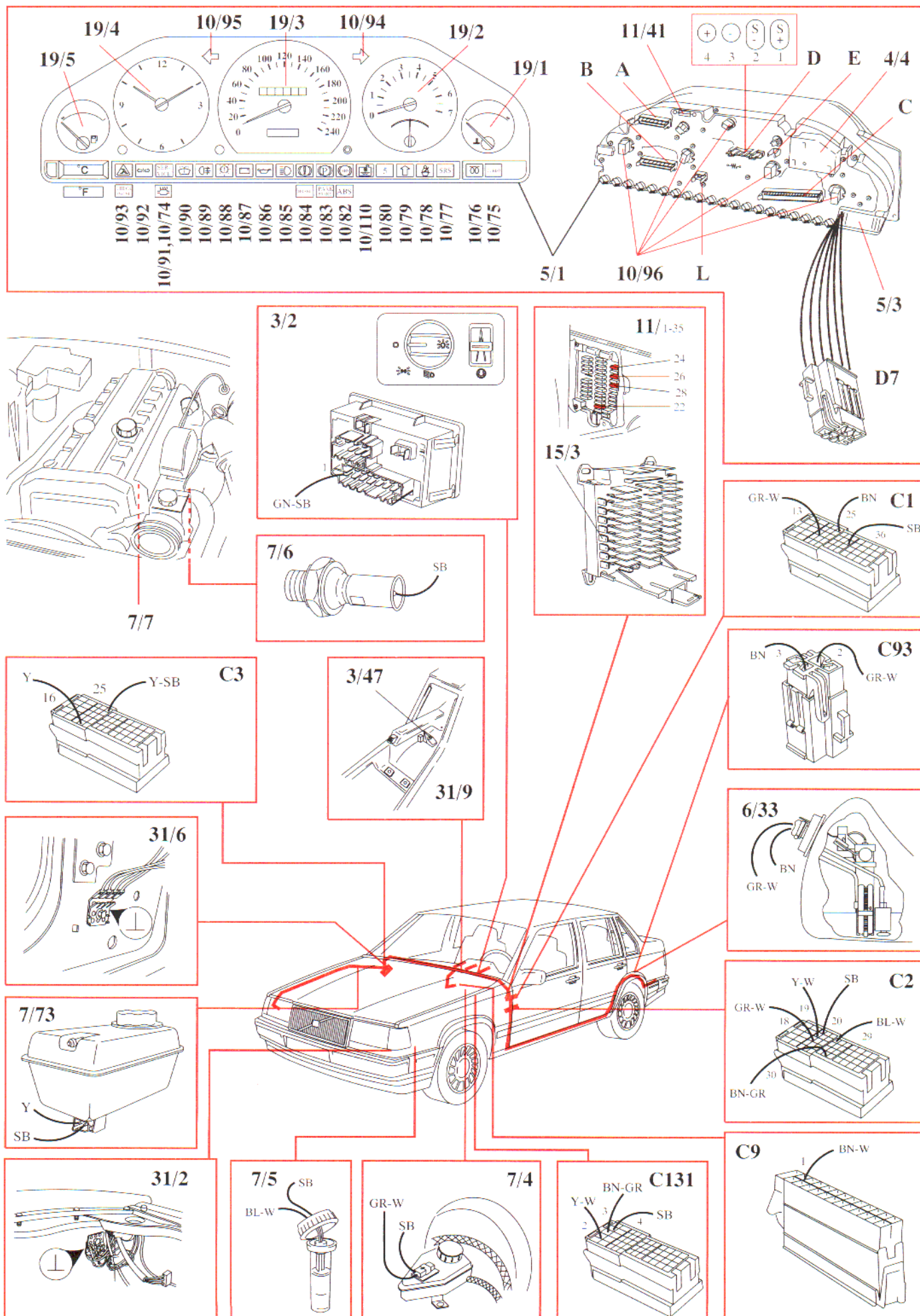


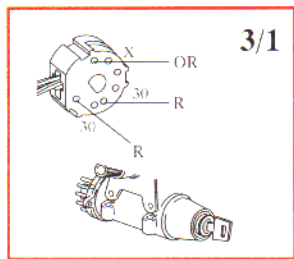
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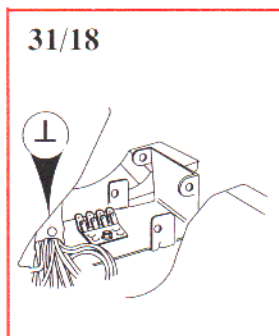




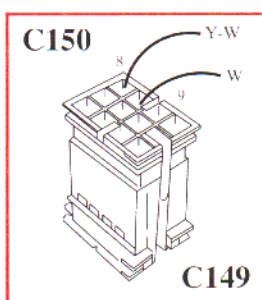




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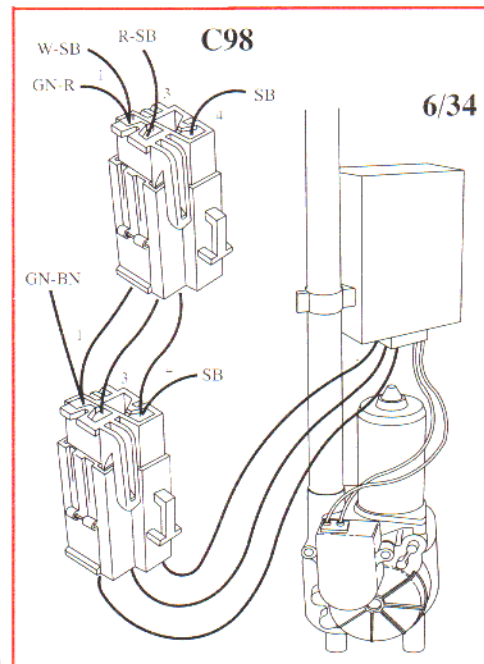


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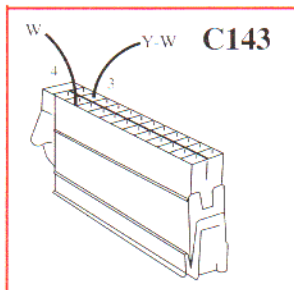
C150

C149

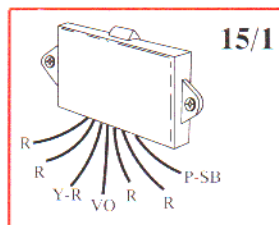


C98

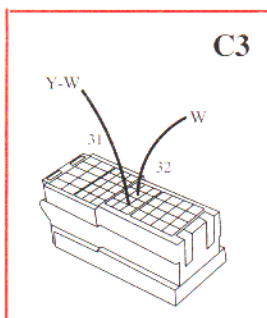
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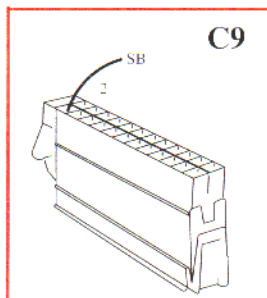
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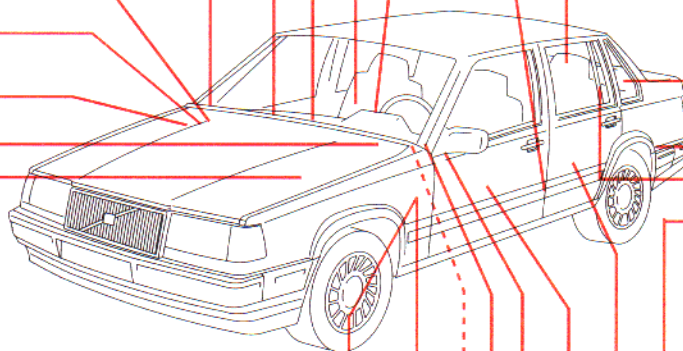
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C3

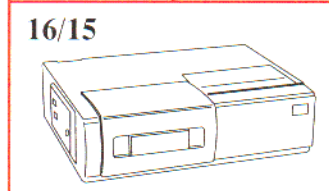


C9



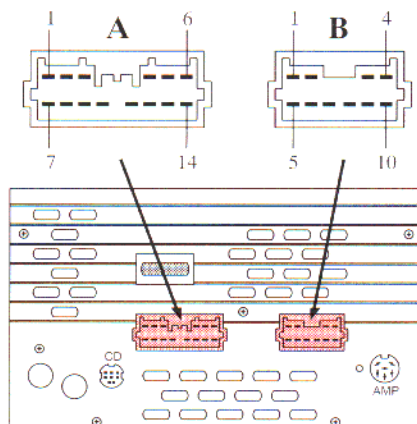
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16/5
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16/18
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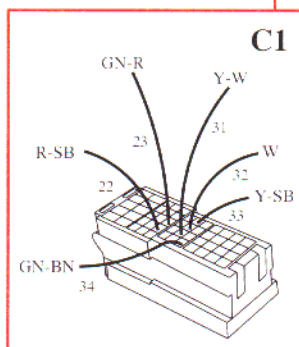


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1 R-W	8 GR	1 GN-BN
2 W	9 -	2 Y-BN
3 R	10 Y-W	3 W
4 GN-BN	11 BN-SB	4 Y-W
5 Y-W	12 GN-BN	5 GN-SB
6 SB	13 Y-SB	6 Y-SB
7 GR-R	14 SB	7 -
		8 -
		9 GR
		10 Y-GR



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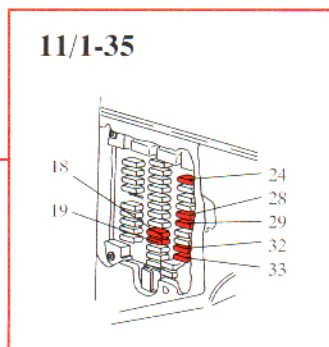


C1

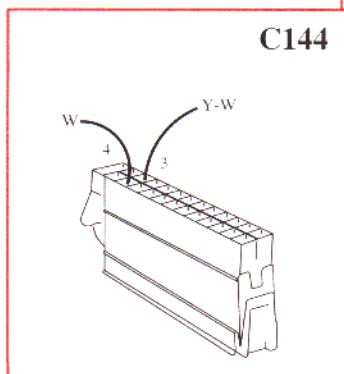
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16/6

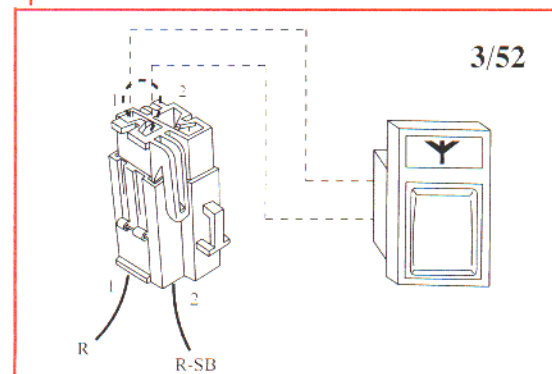
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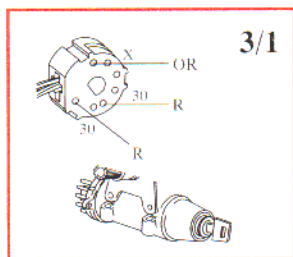
11/1-35



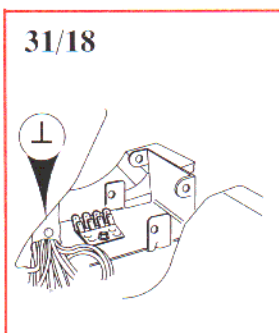
C144



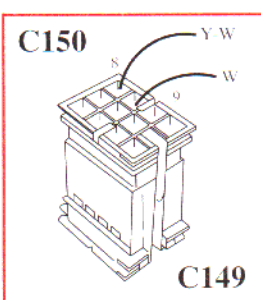
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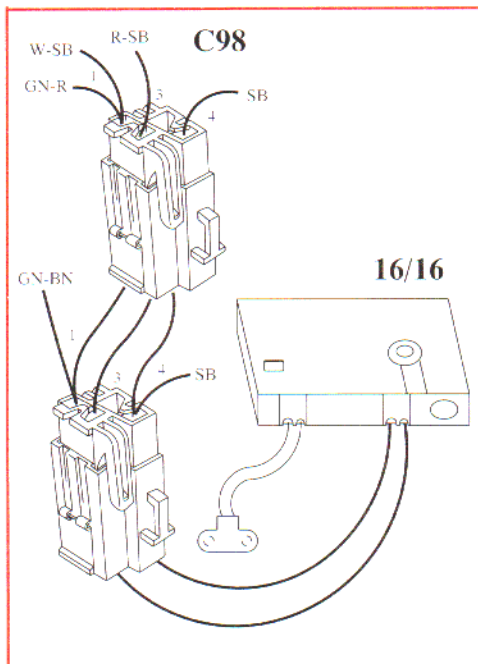


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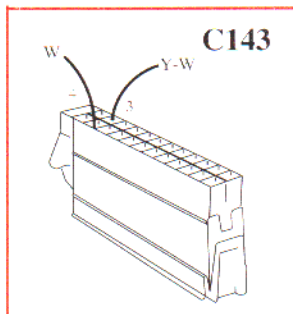
C150

C149

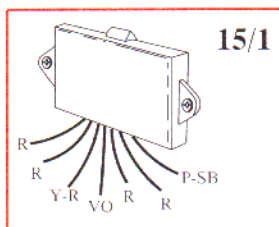


C98

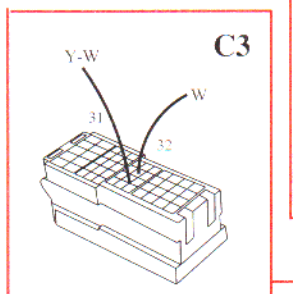
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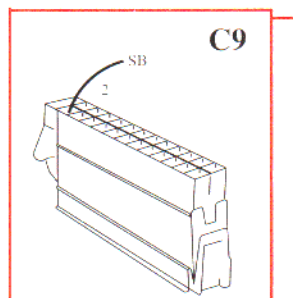
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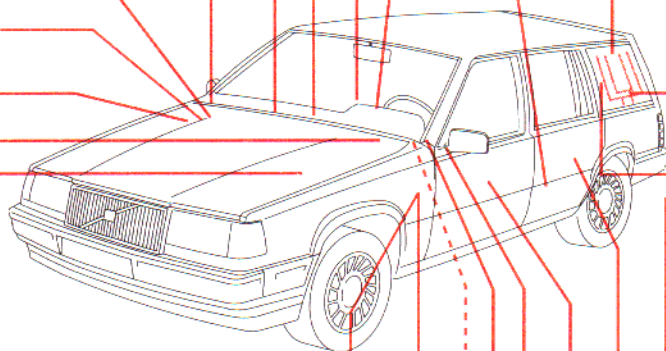
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C3



C9



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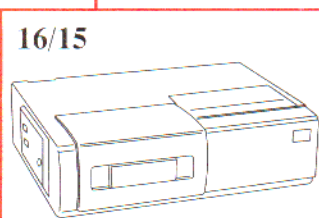
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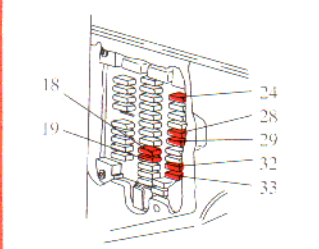
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16/6

16/8

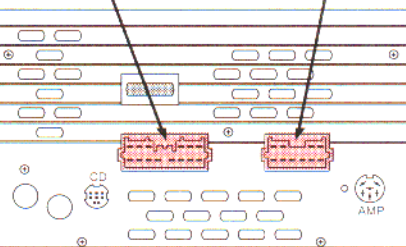
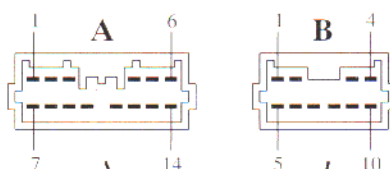


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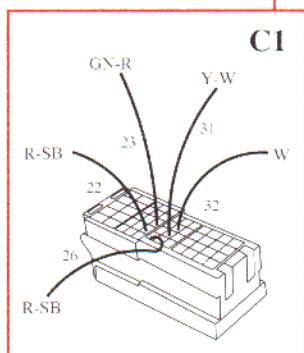


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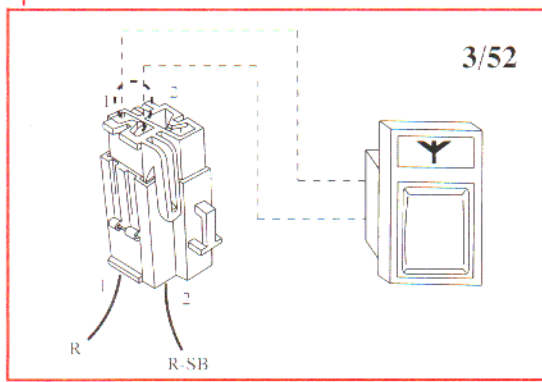
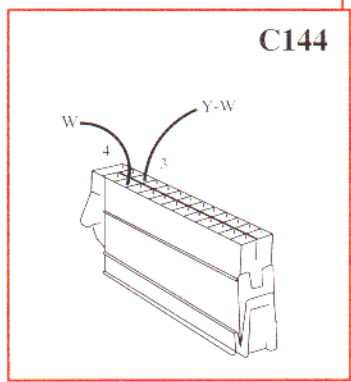
- | | | |
|---------|----------|---------|
| 1 R-W | 8 GR | 1 GN-BN |
| 2 W | 9 - | 2 Y-BN |
| 3 R | 10 Y-W | 3 W |
| 4 GN-BN | 11 GN-SB | 4 Y-W |
| 5 Y-W | 12 GN-BN | 5 GN-SB |
| 6 SB | 13 Y-SB | 6 Y-SB |
| 7 GR-R | 14 SB | 7 - |
| | | 8 - |
| | | 9 GR |
| | | 10 Y-GR |



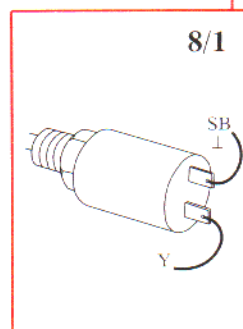
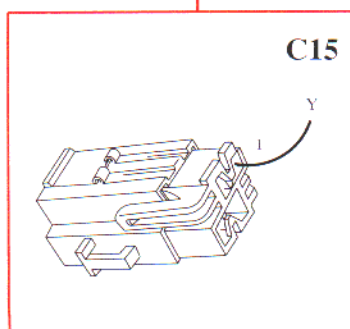
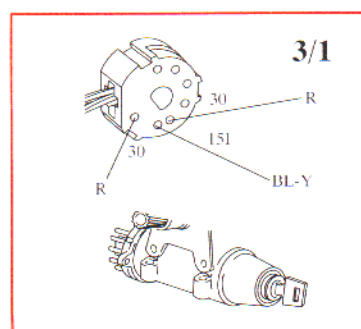
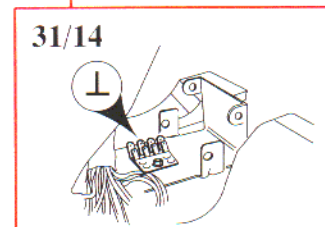
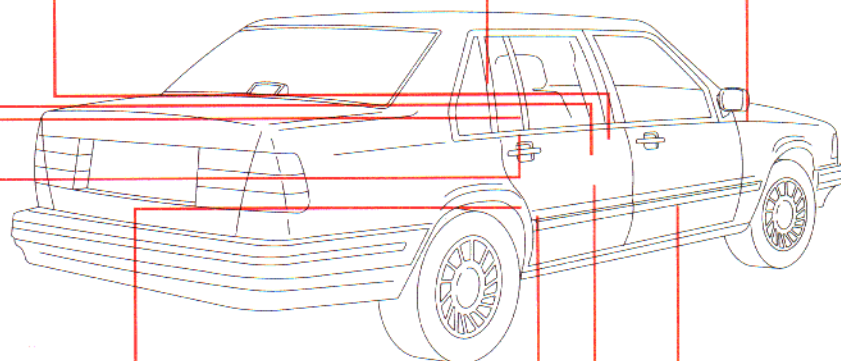
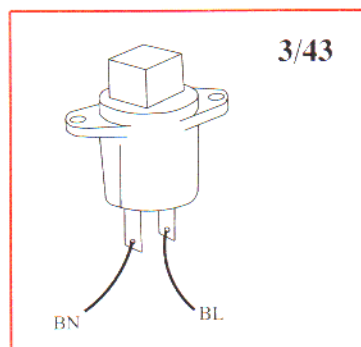
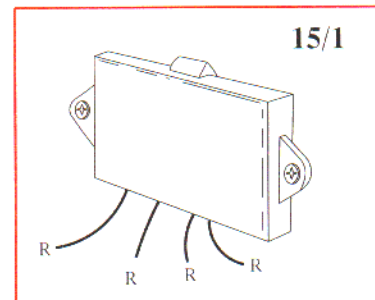
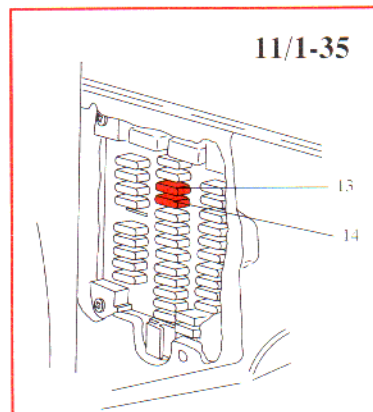
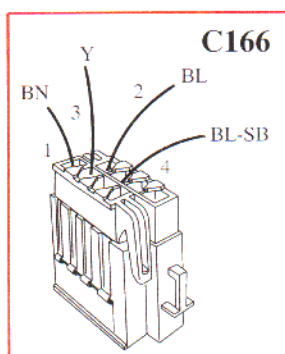
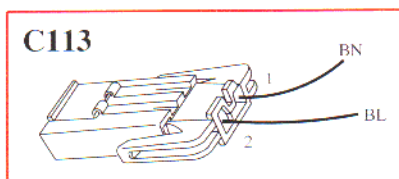
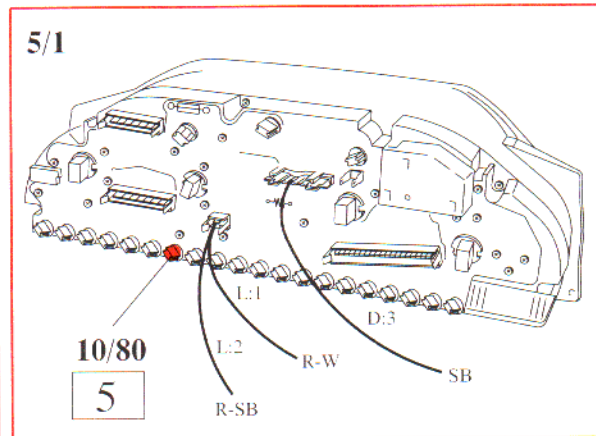
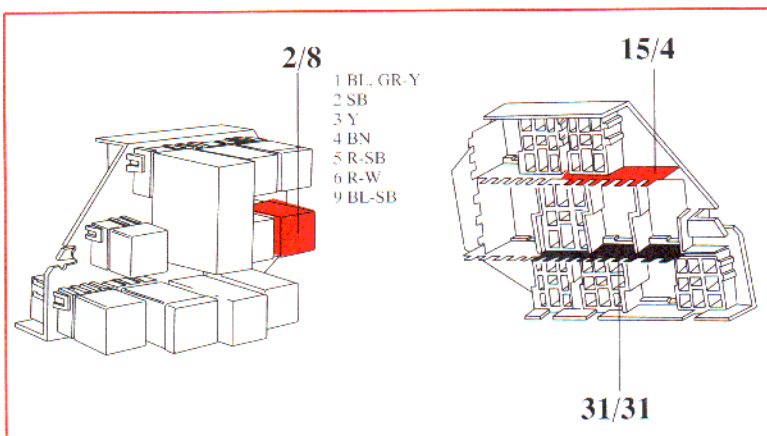
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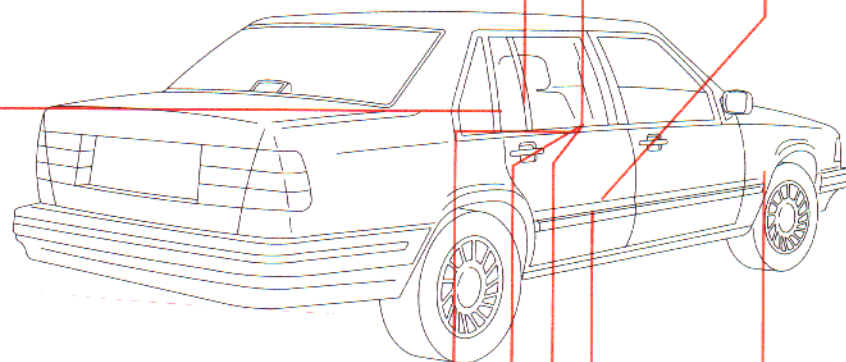
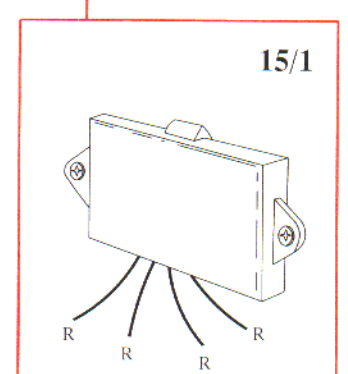
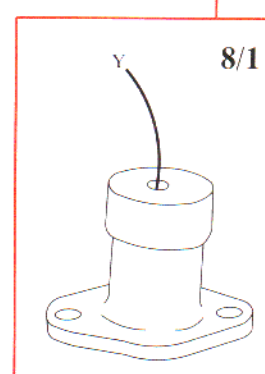
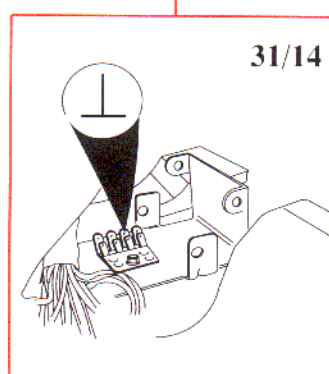
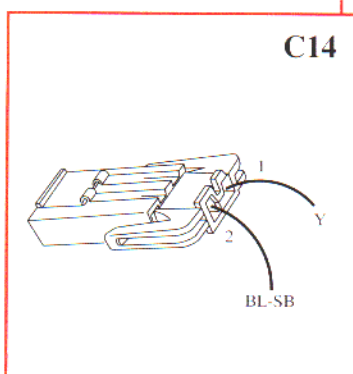
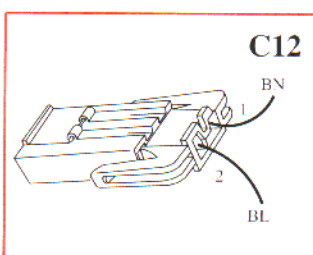
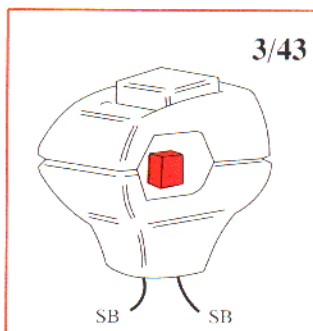
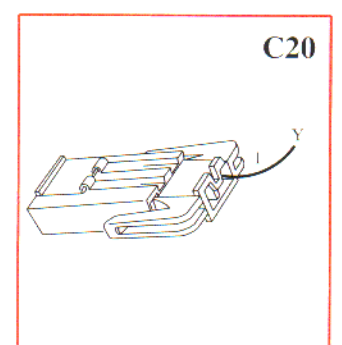
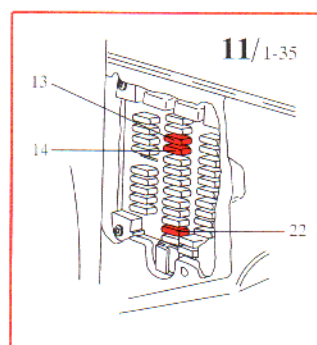
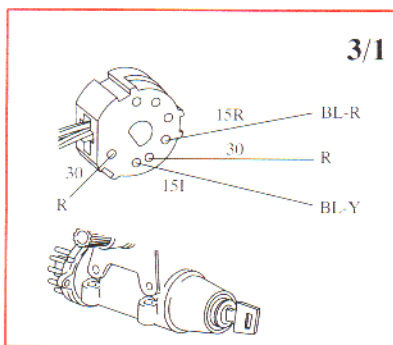
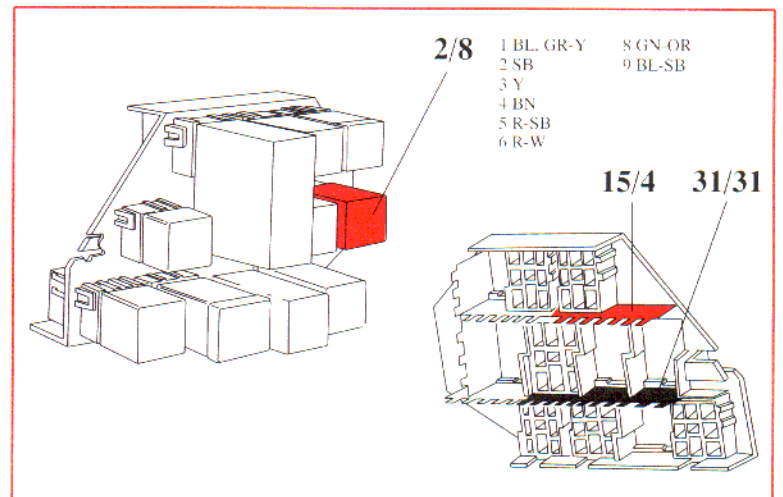
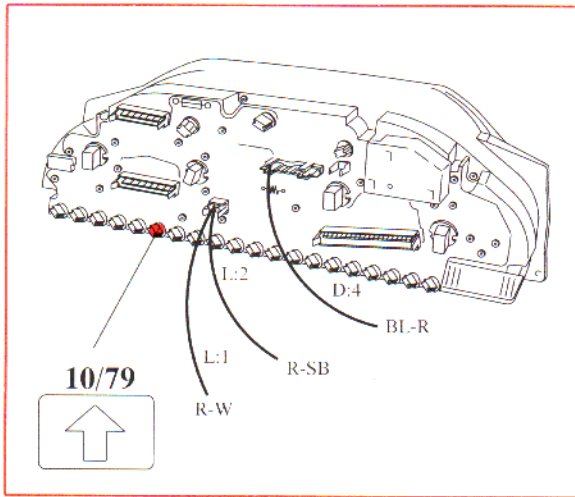


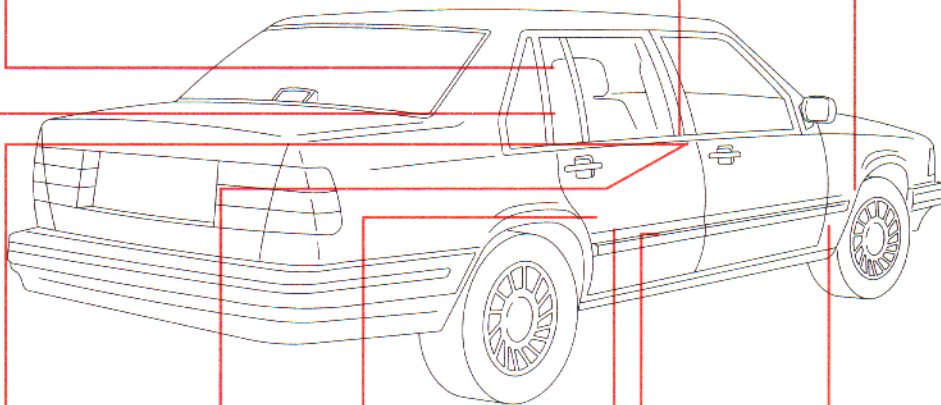
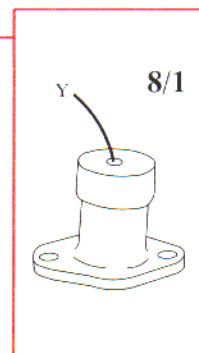
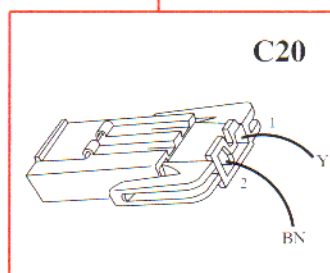
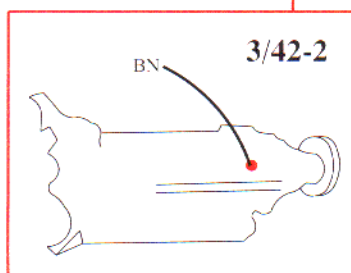
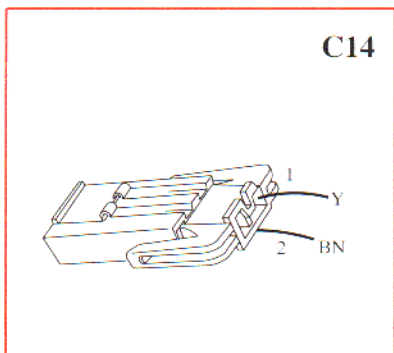
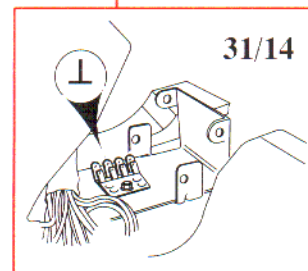
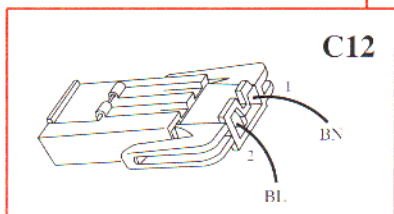
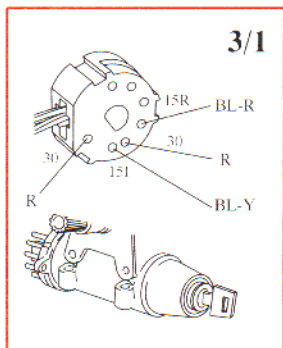
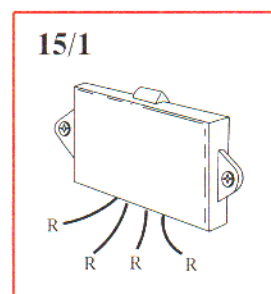
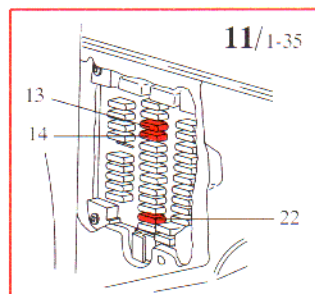
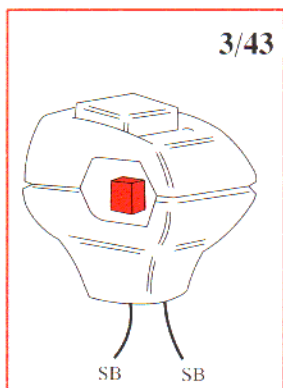
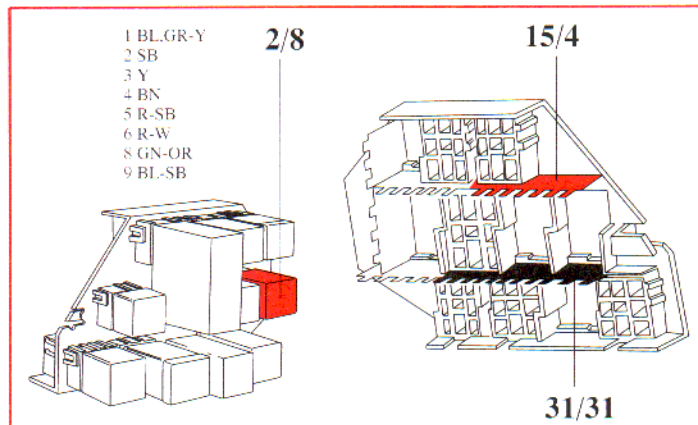
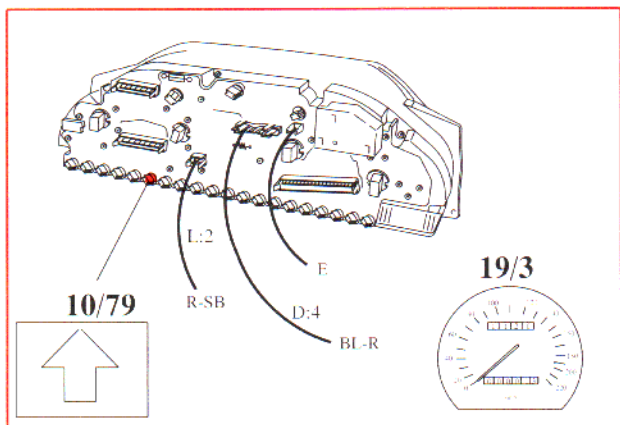
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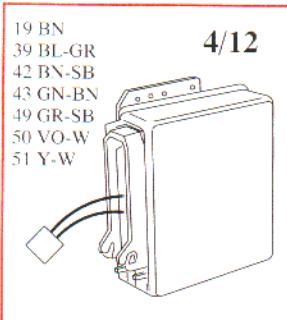
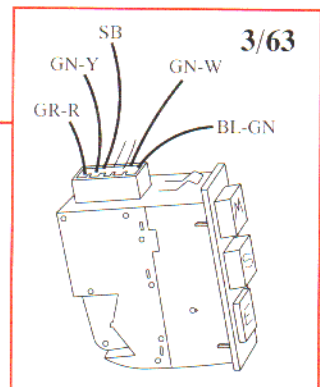
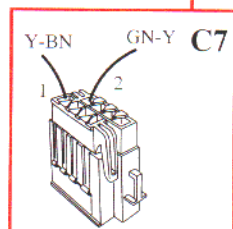
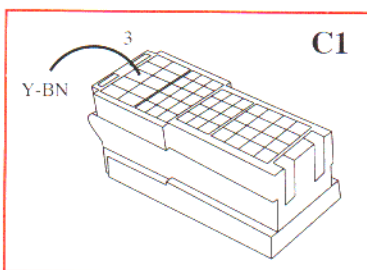
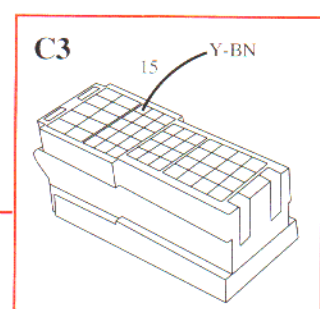
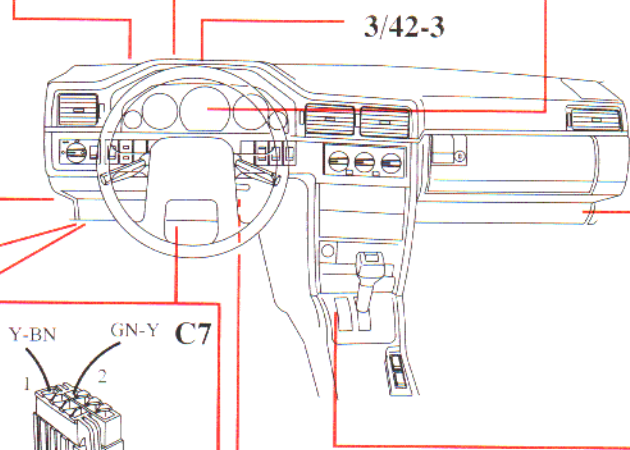
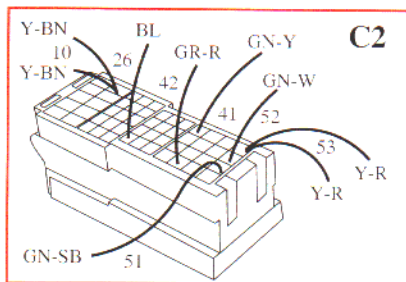
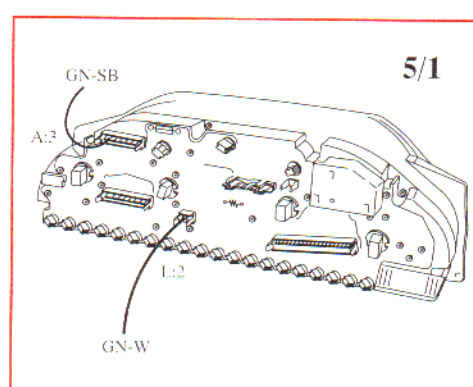
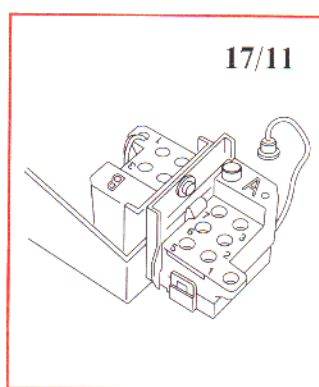
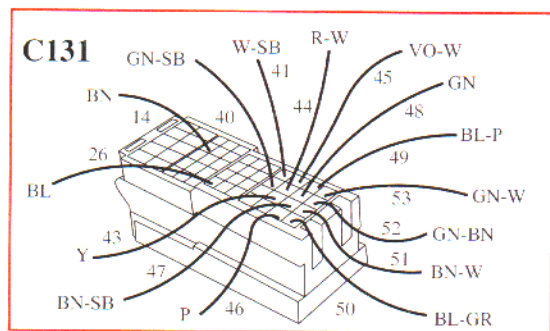


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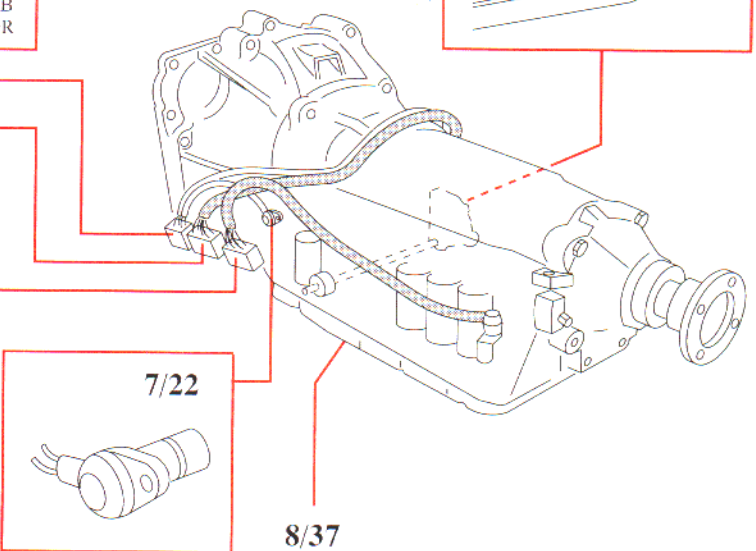
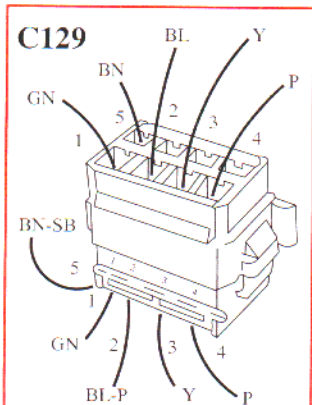
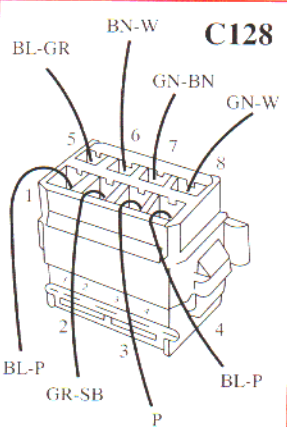
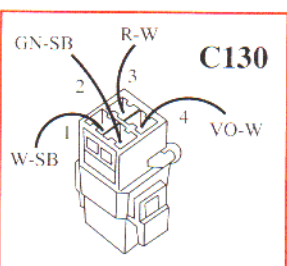
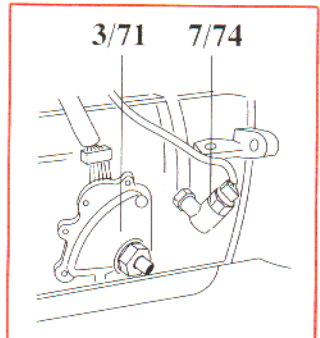
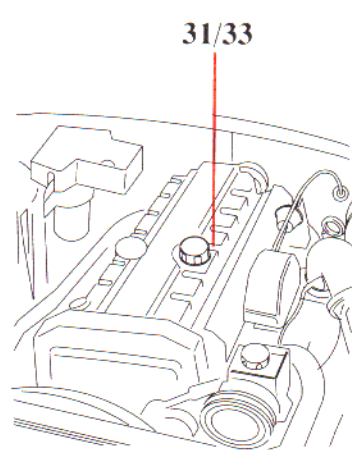


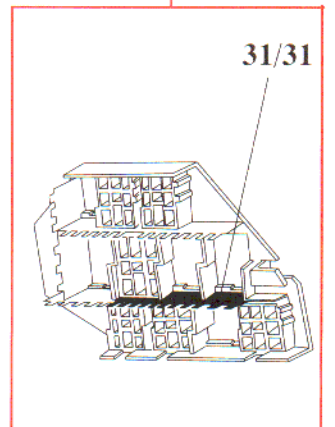
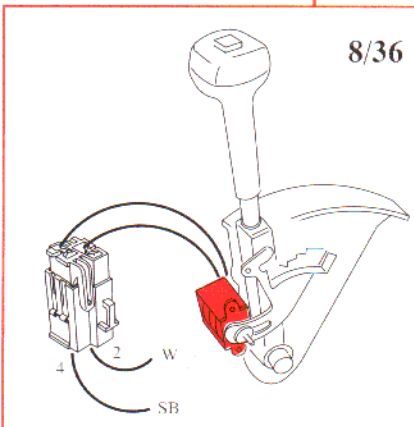
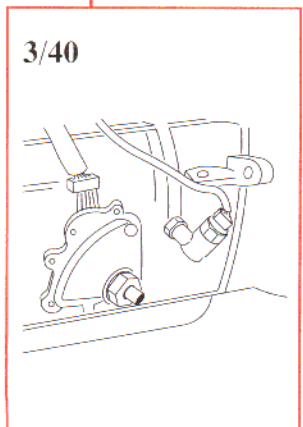
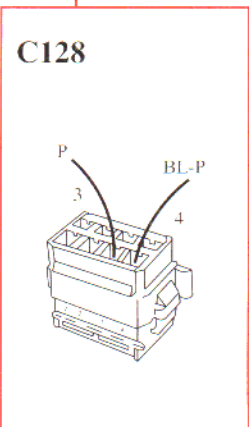
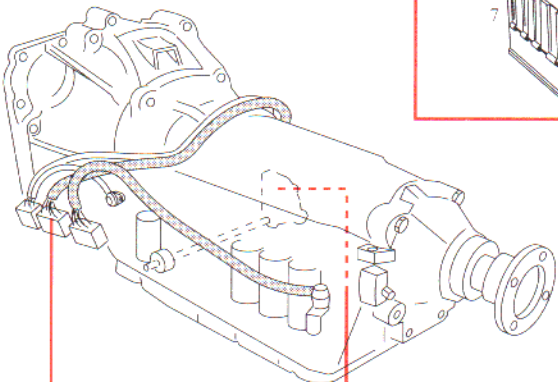
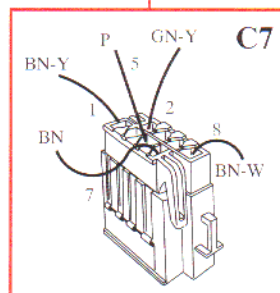
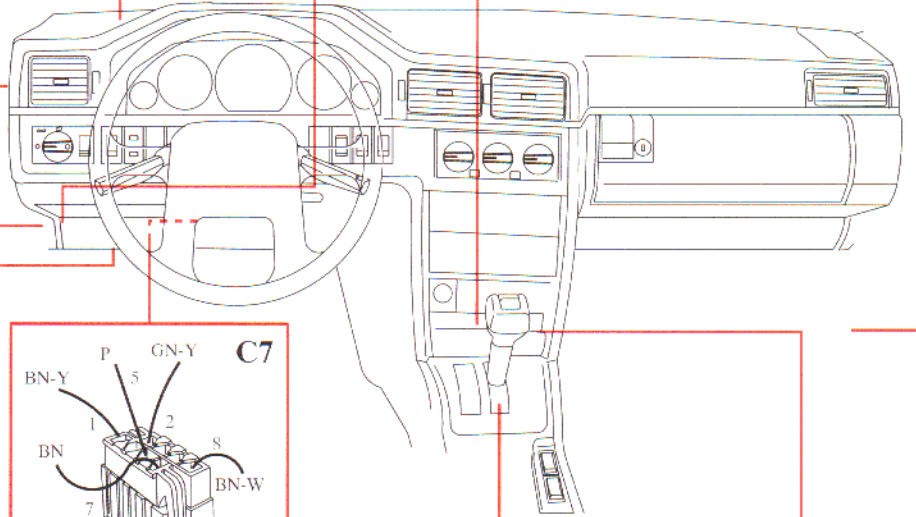
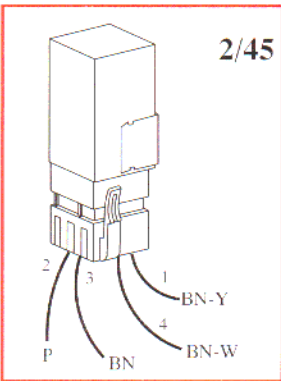
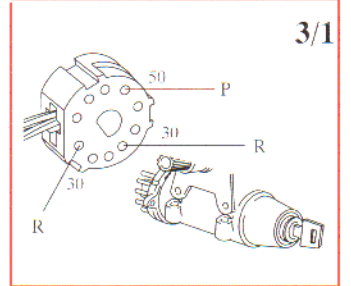
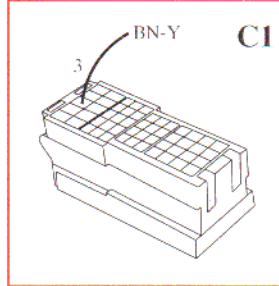
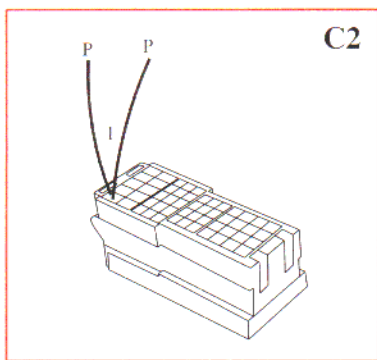
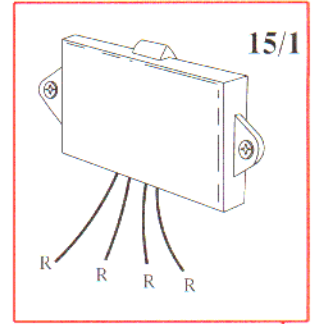
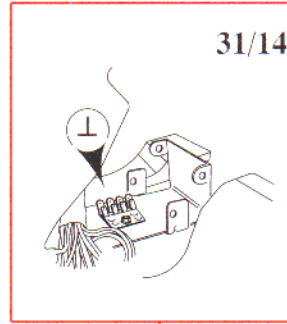
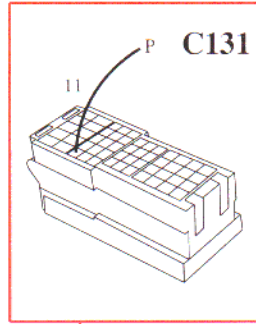
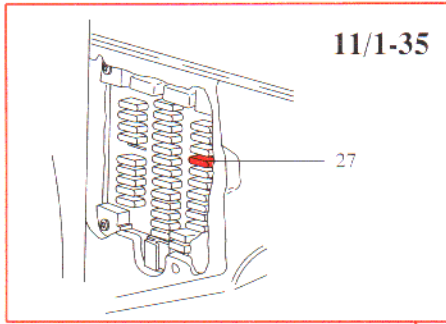


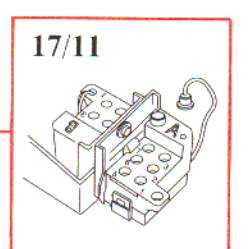
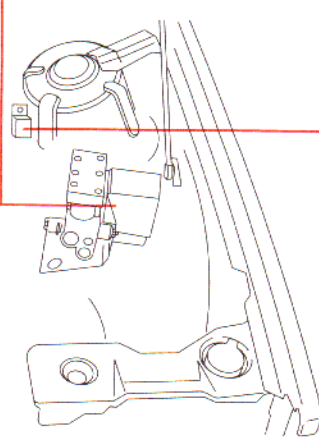
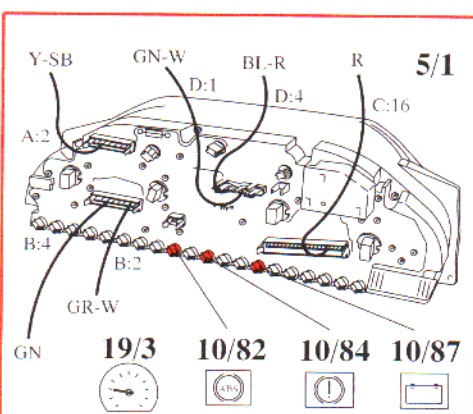
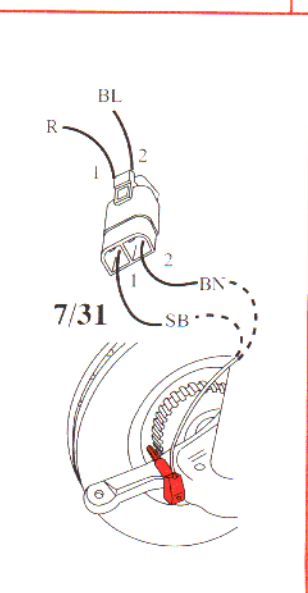
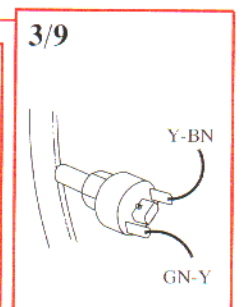
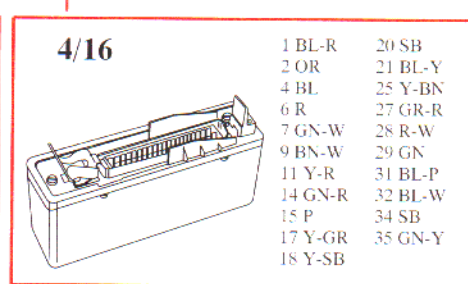
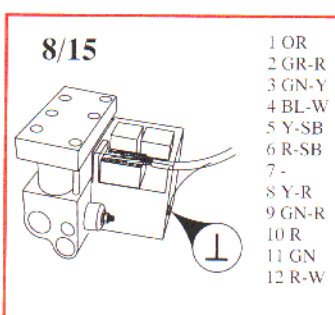
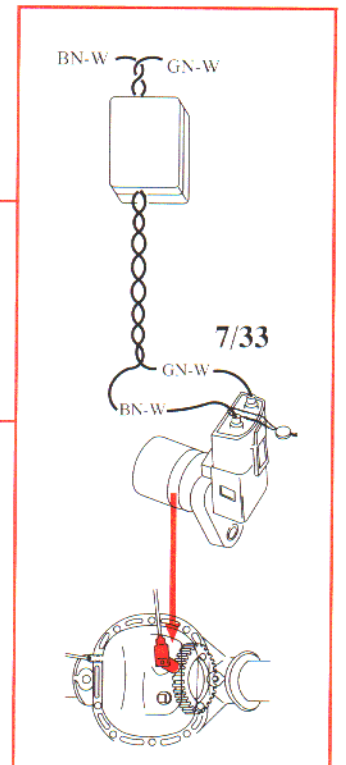
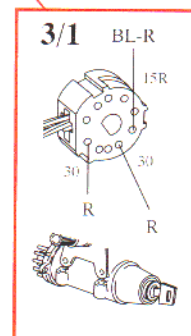
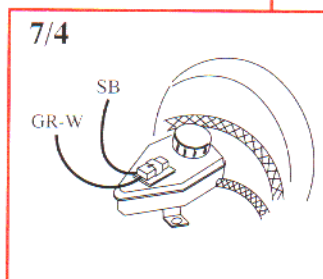
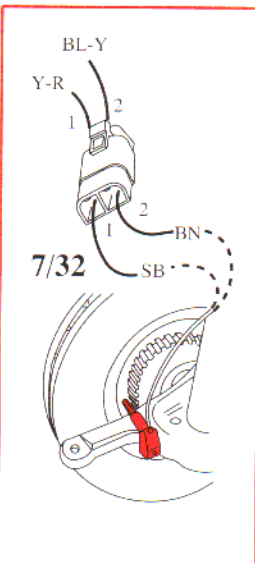
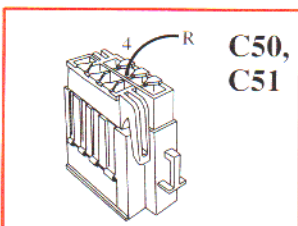
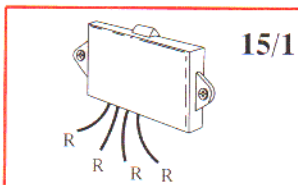
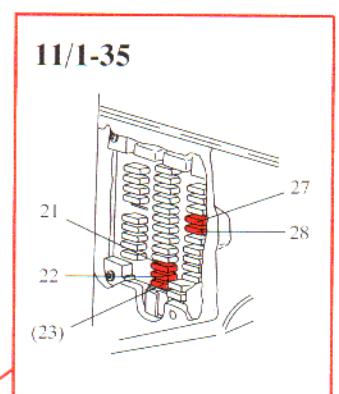
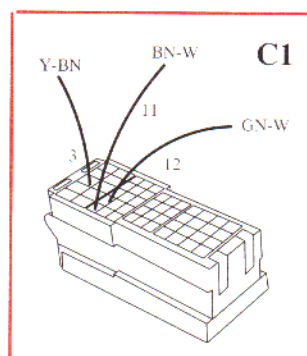
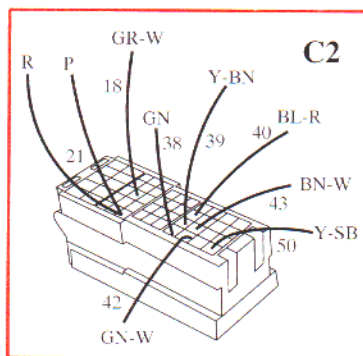
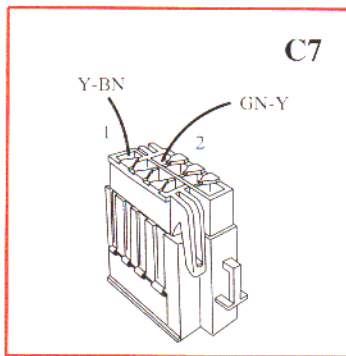


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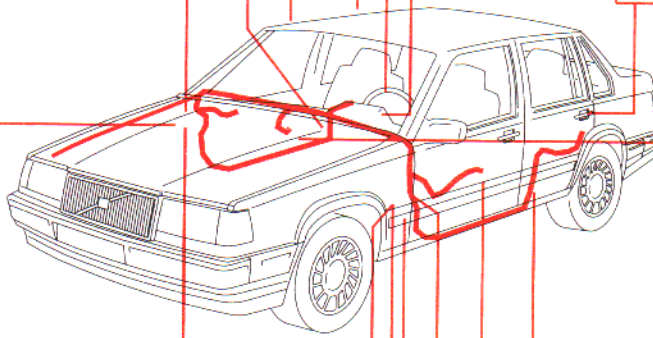
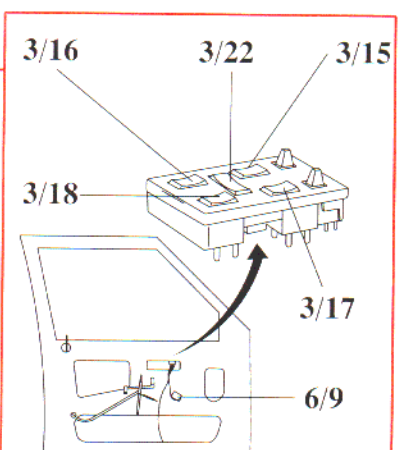
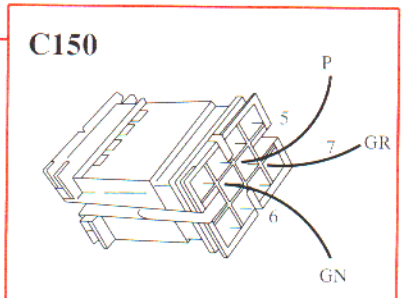
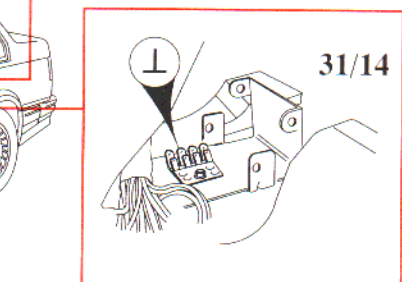
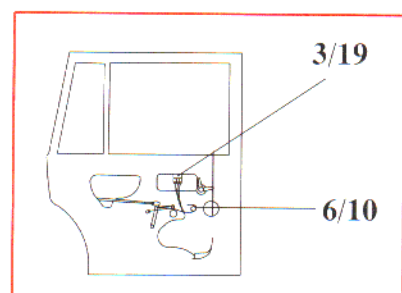
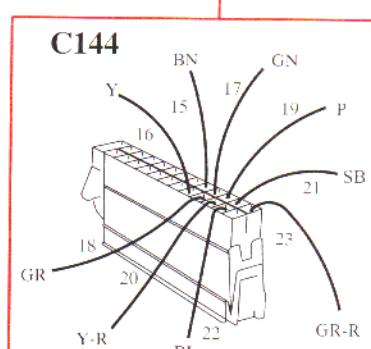
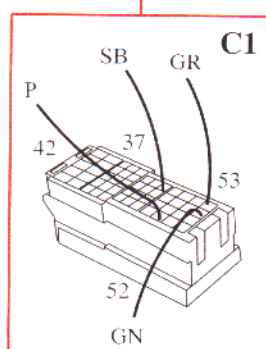
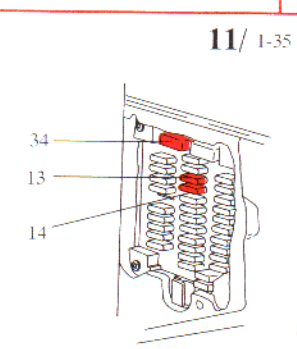
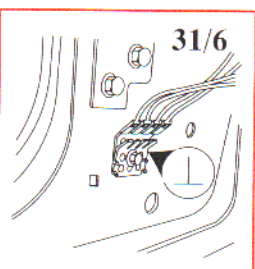
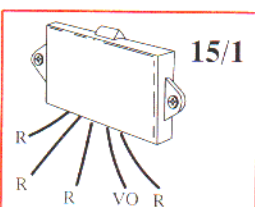
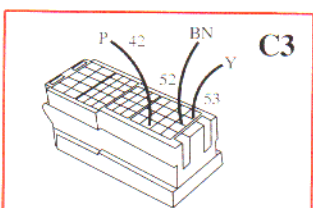
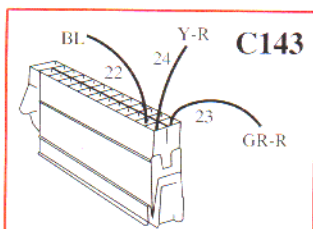
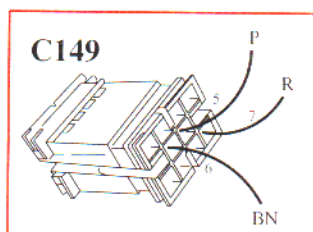
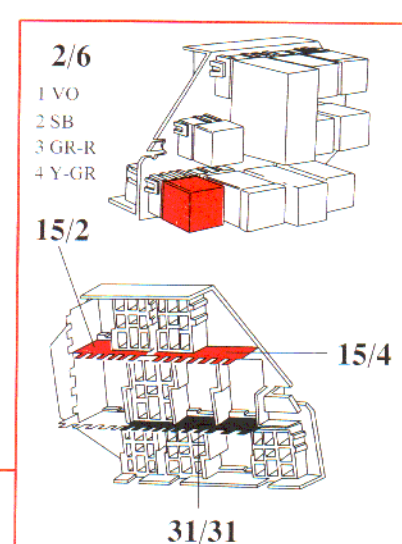
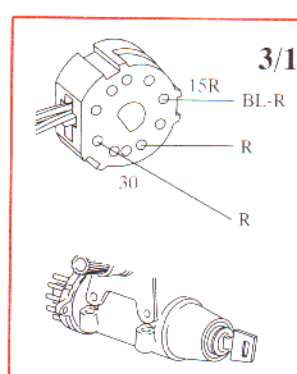
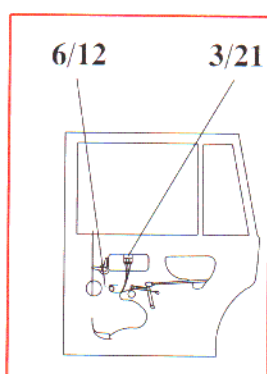
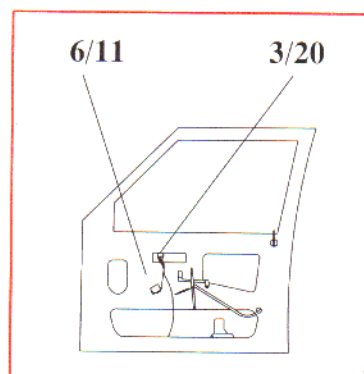
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3 P	1 GR-SB
4 BN-SB	2 GN-W
6 R-W	4 BL-GN
7 VO-W	5 GN-BN
8 GN	6 Y-W
9 BL-P	7 VO-W
11 SB	8 GN-SB
12 BN	9 GN-Y
14 BL	10 Y-BN
16 W-SB	11 GR-R
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21 GN-BN	
22 GN-W	
25 VO	
26 Y	
30 Y-R	

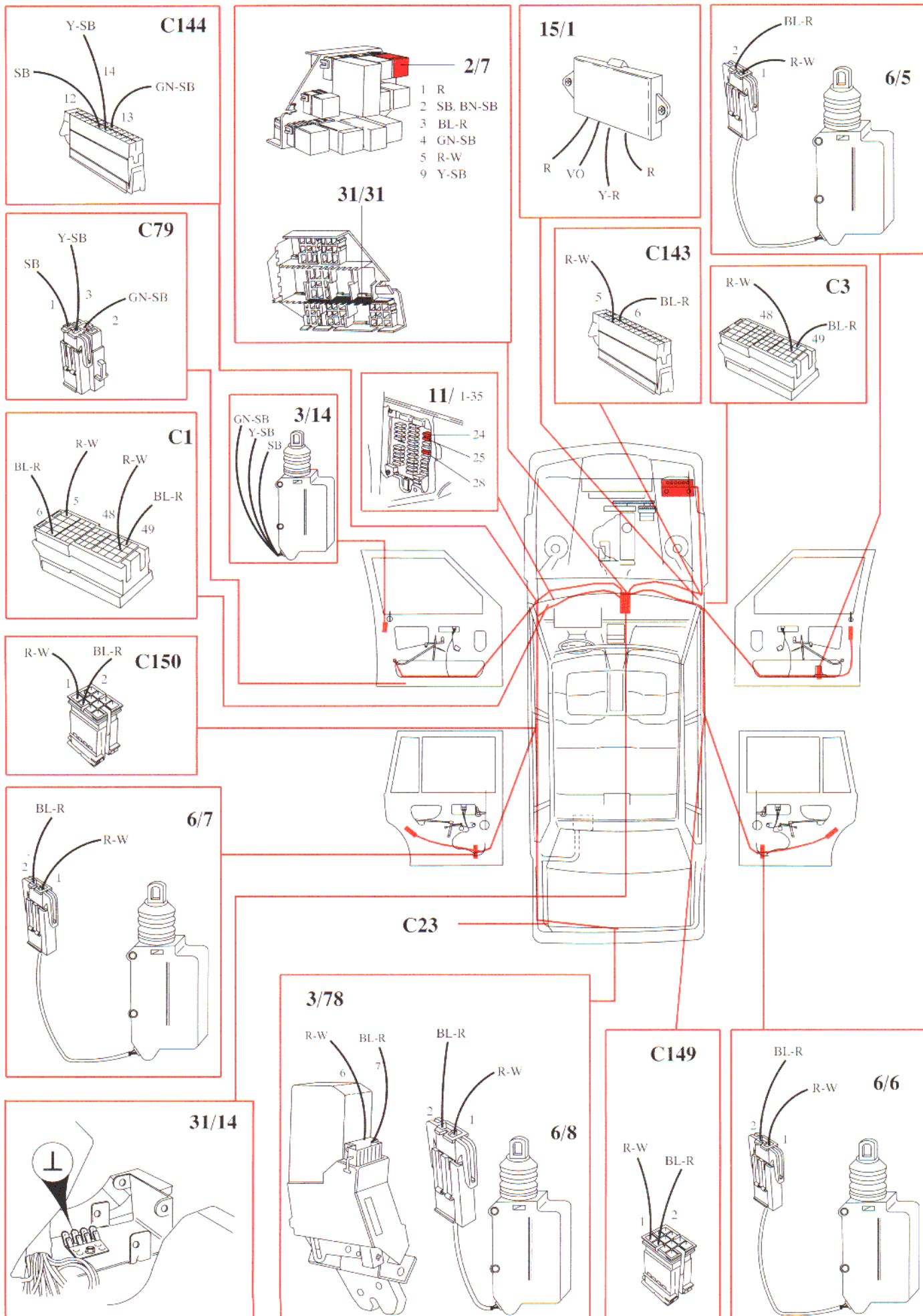


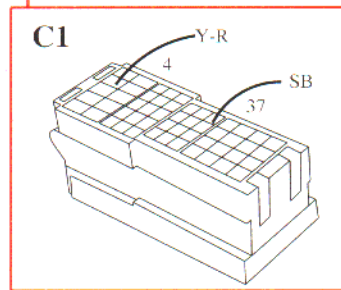
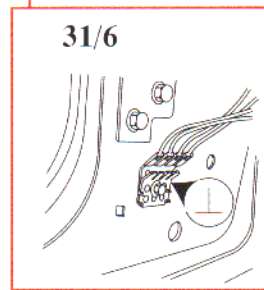
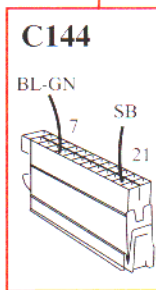
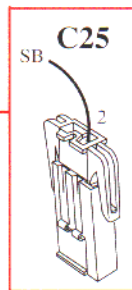
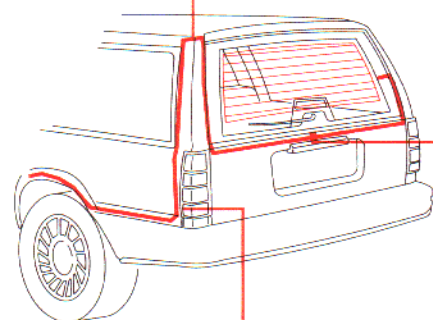
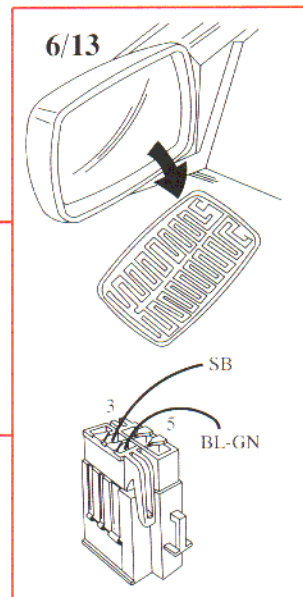
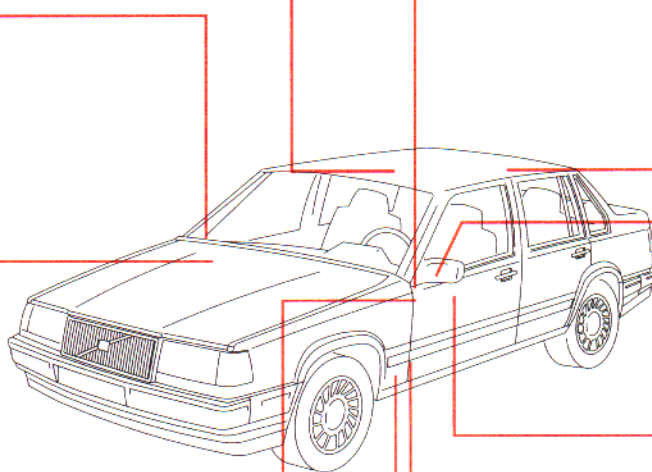
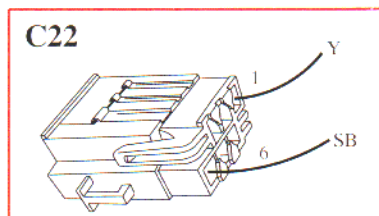
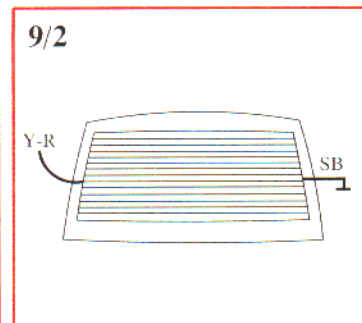
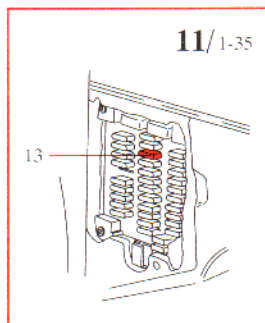
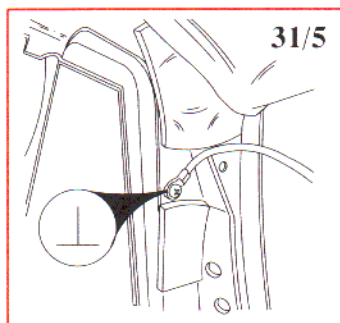
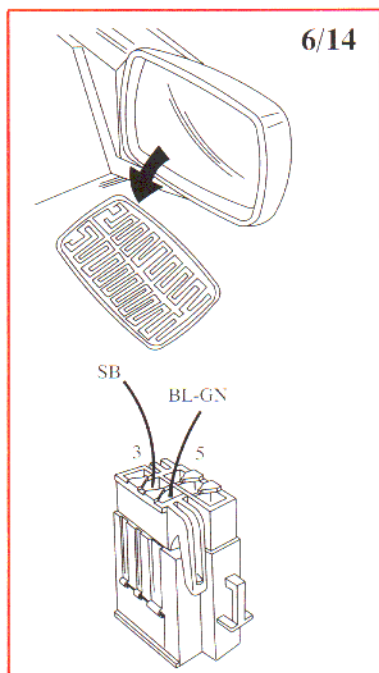




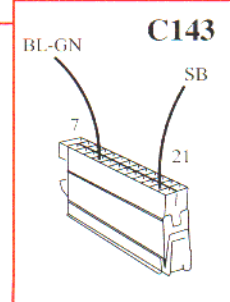
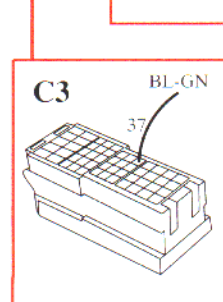
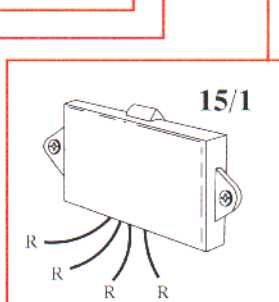
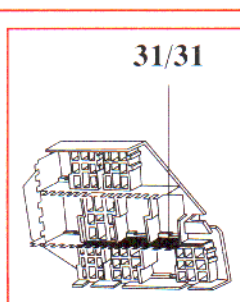
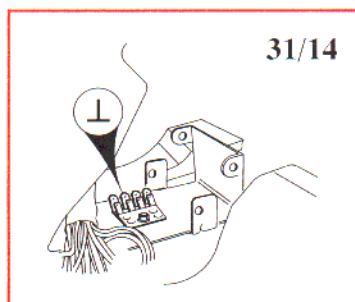
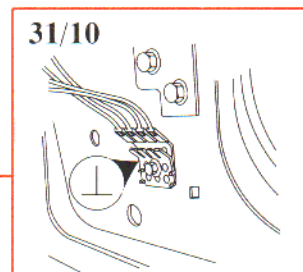
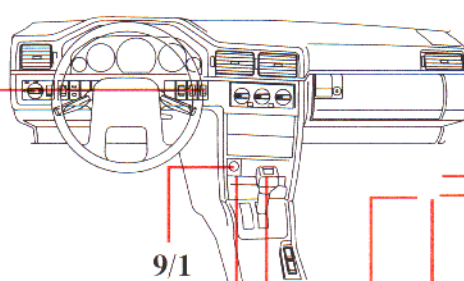
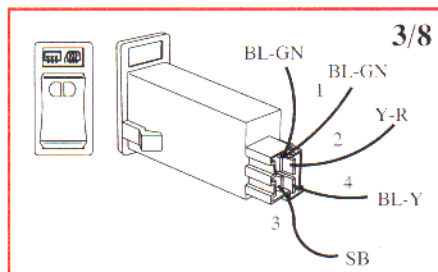


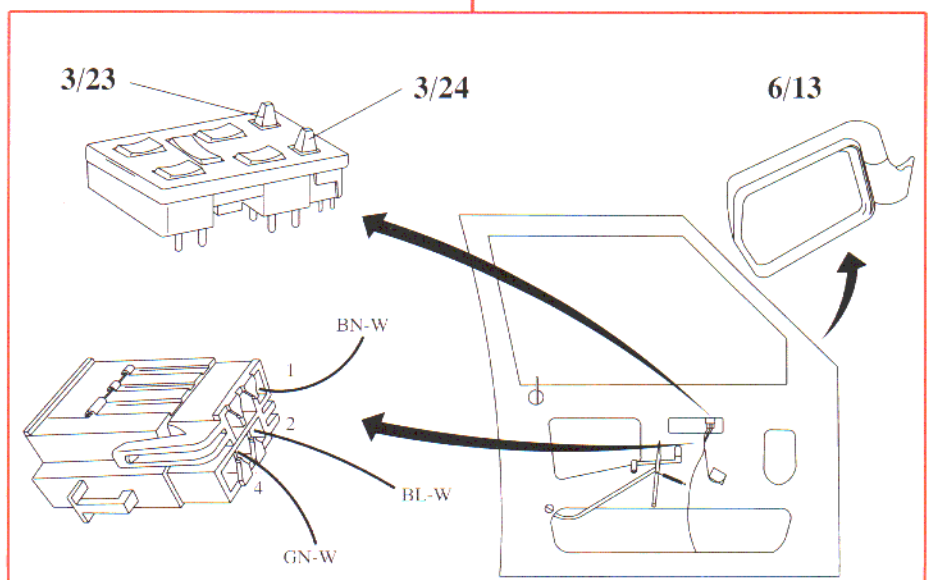
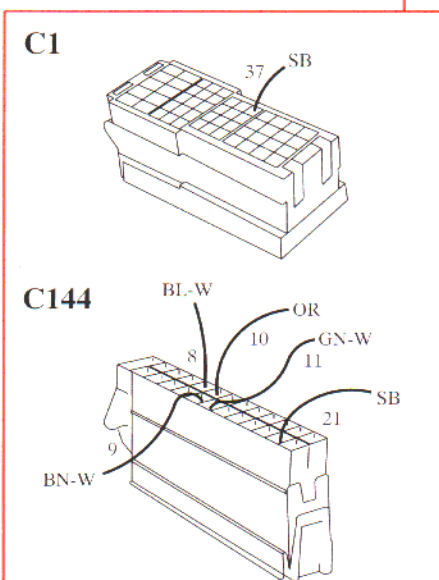
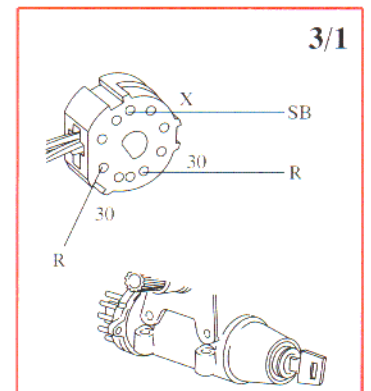
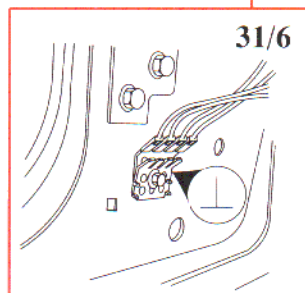
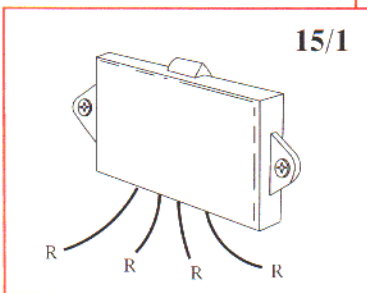
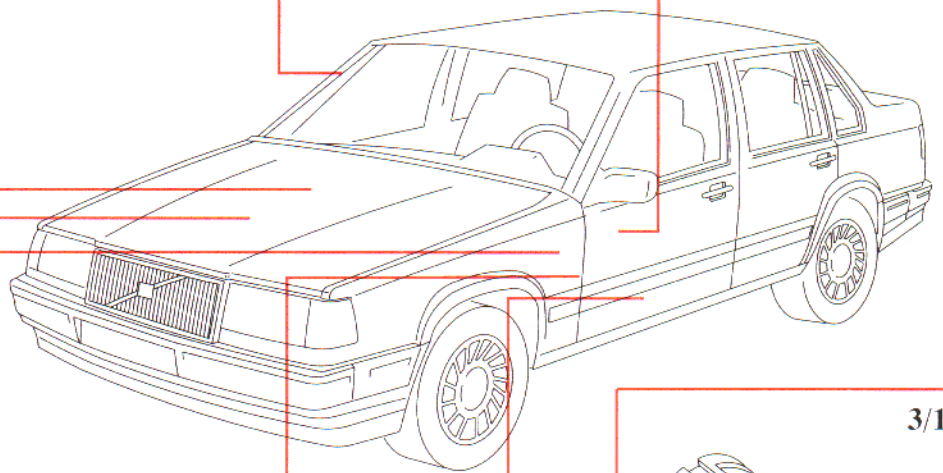
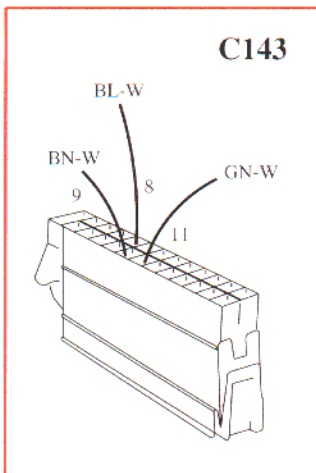
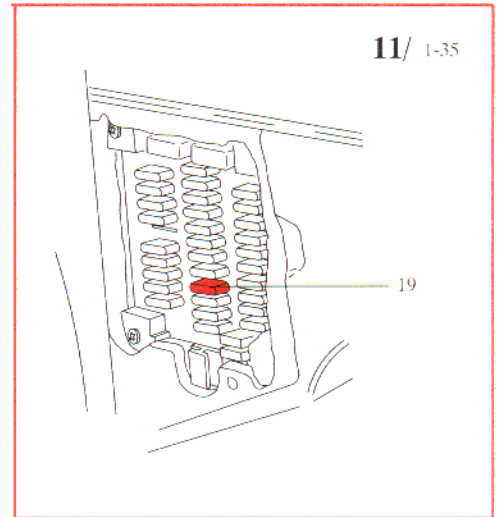
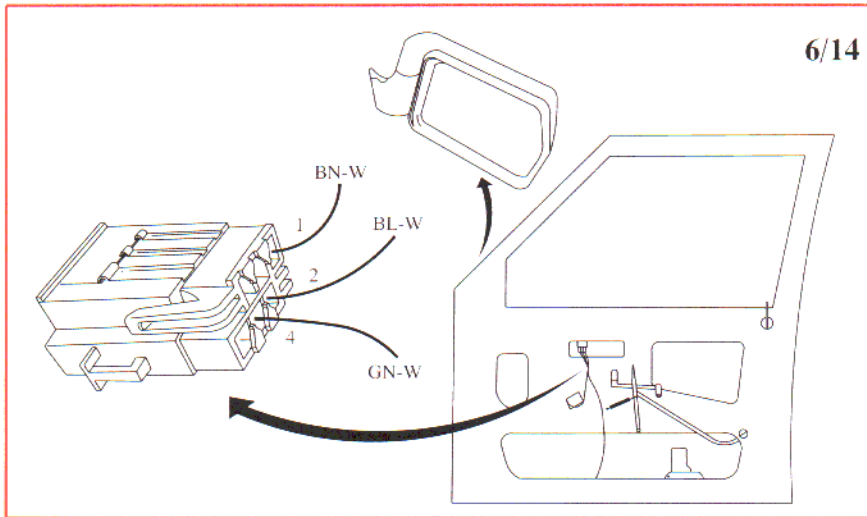




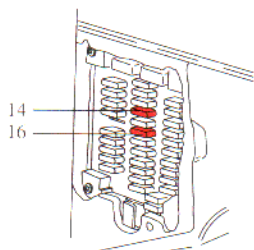


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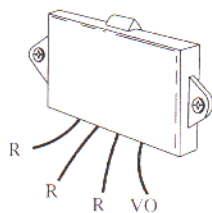




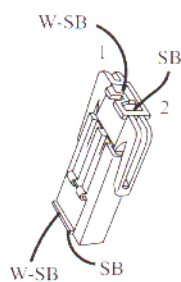
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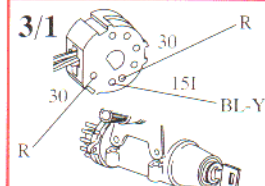
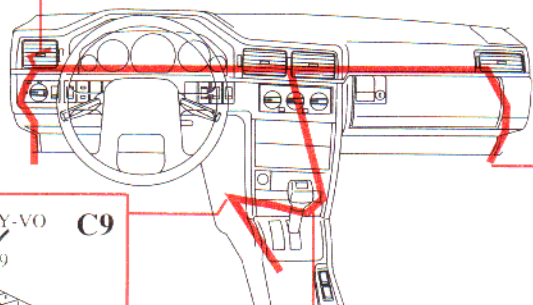
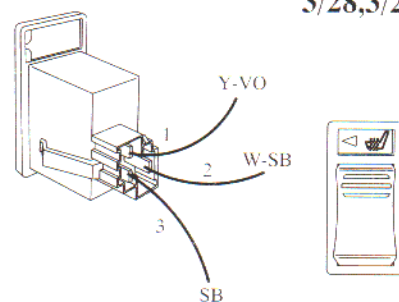
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C31

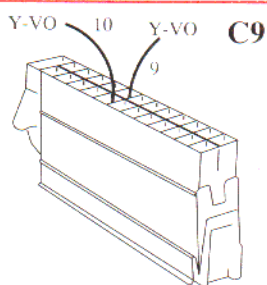
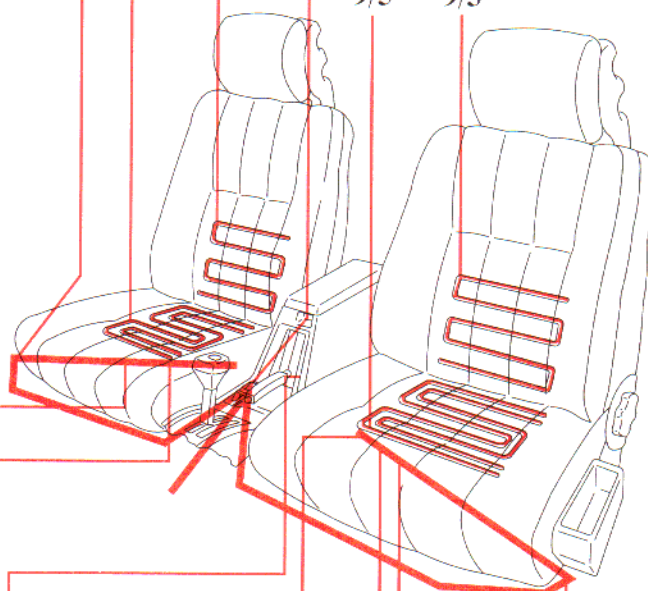


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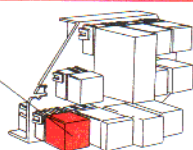
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C9

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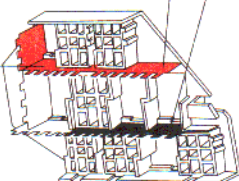
- 1 VO
- 2 SB
- 3 GR-R
- 4 Y-GR



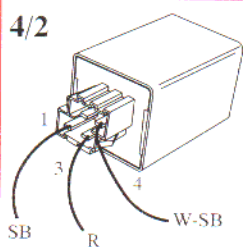
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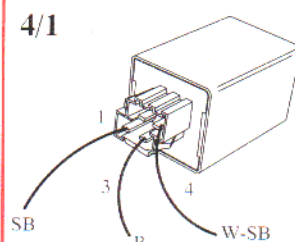
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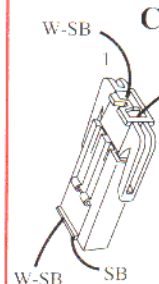
4/2



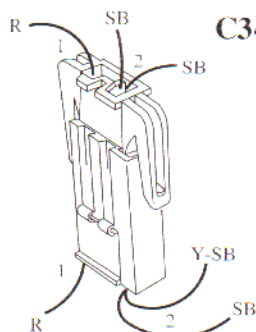
4/1



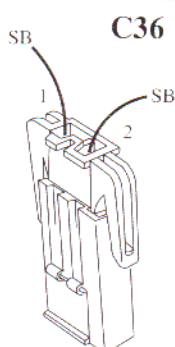
C32



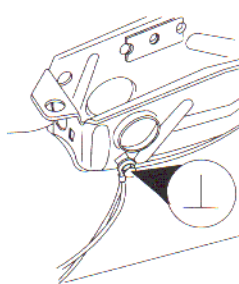
C34



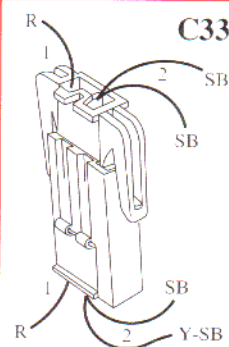
C36



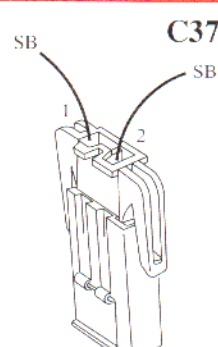
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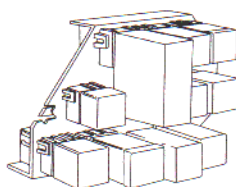
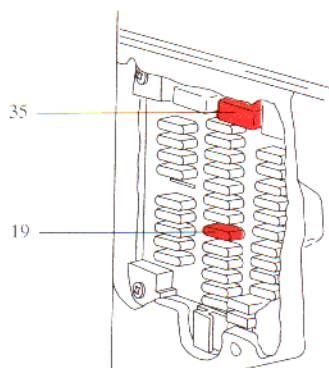
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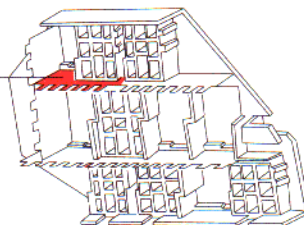
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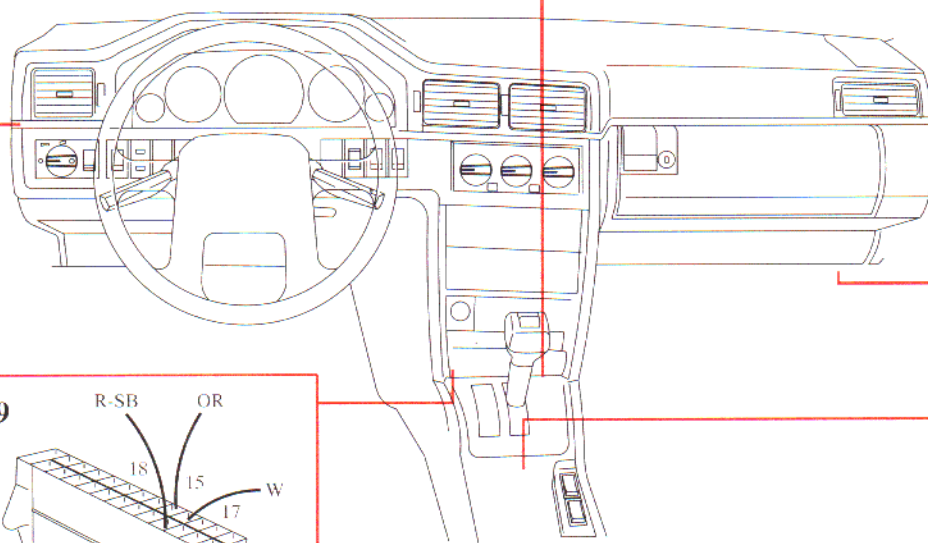
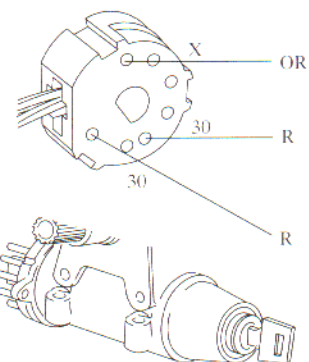
11/ 1-35



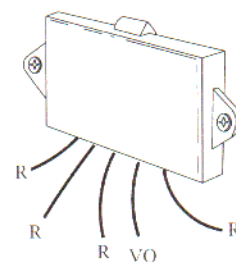
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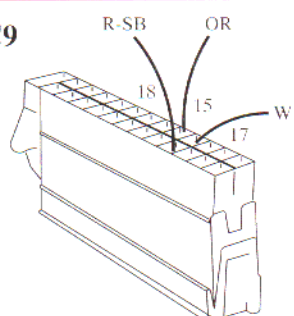
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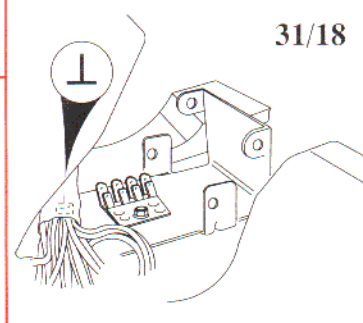
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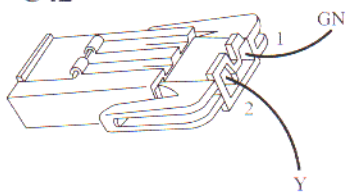
C9



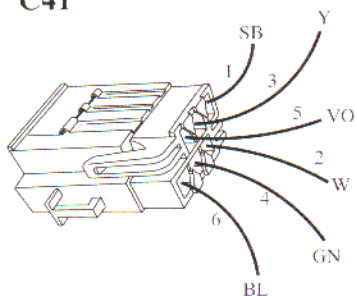
31/18



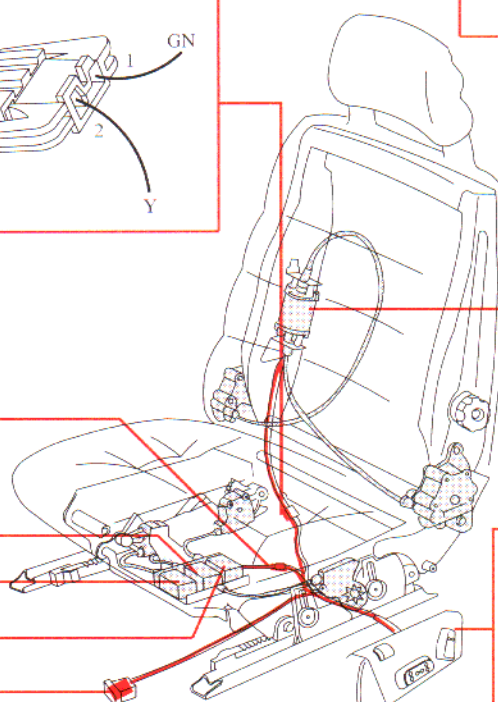
C42



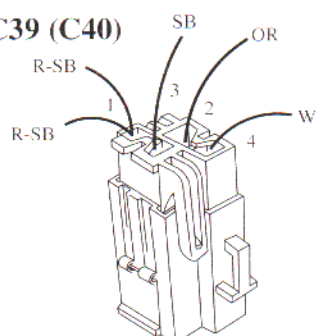
C41



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C39 (C40)

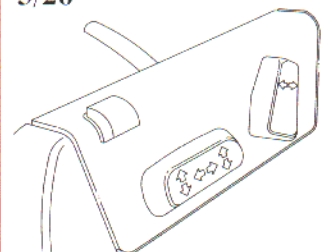


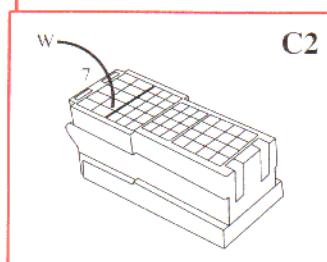
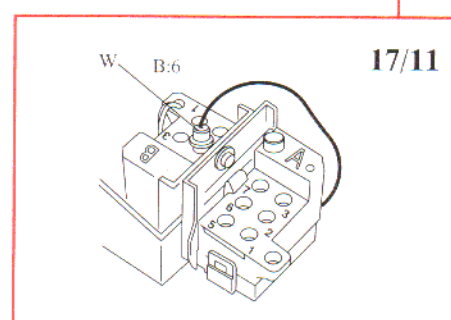
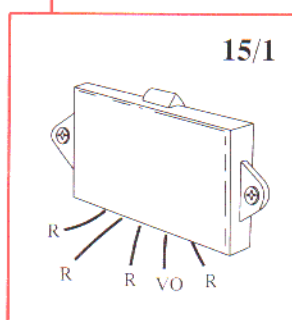
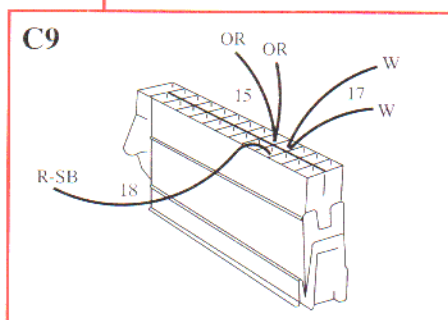
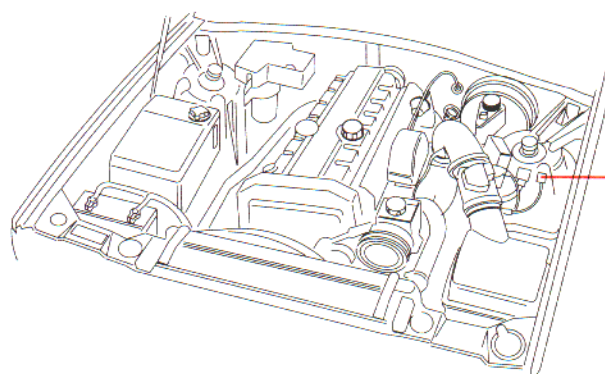
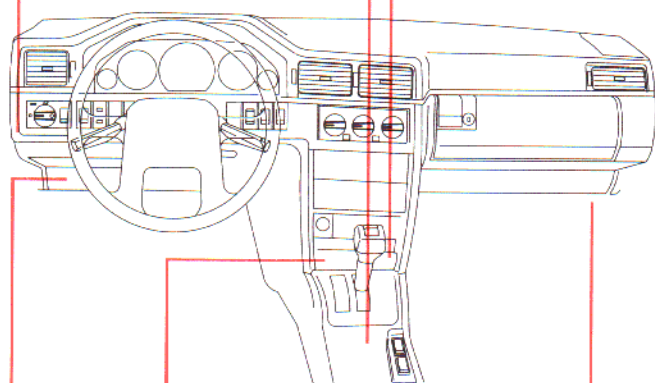
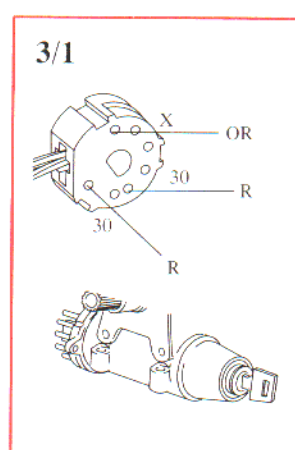
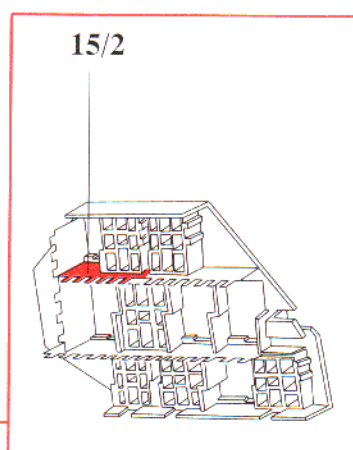
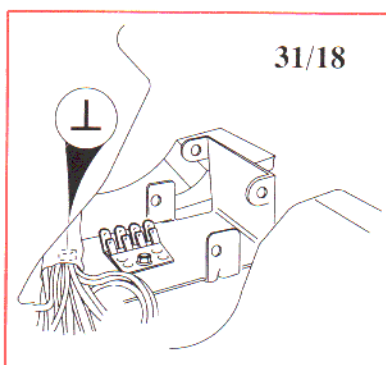
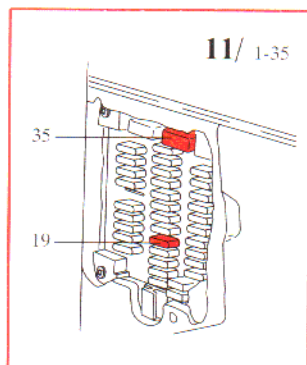
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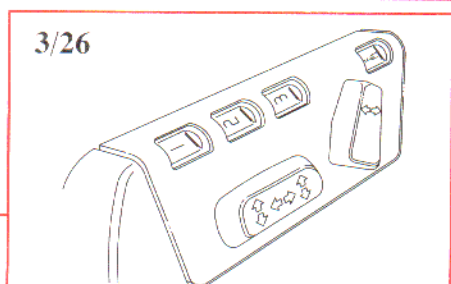
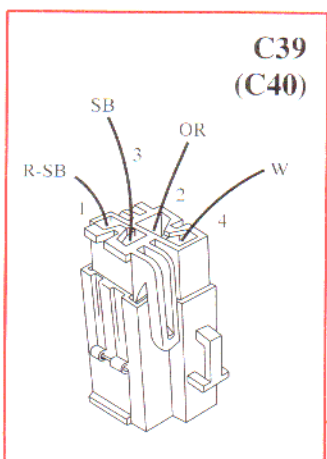
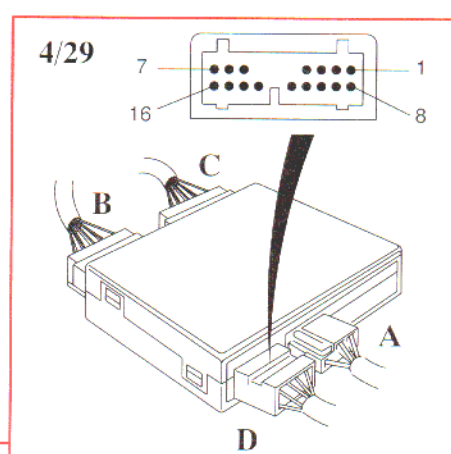
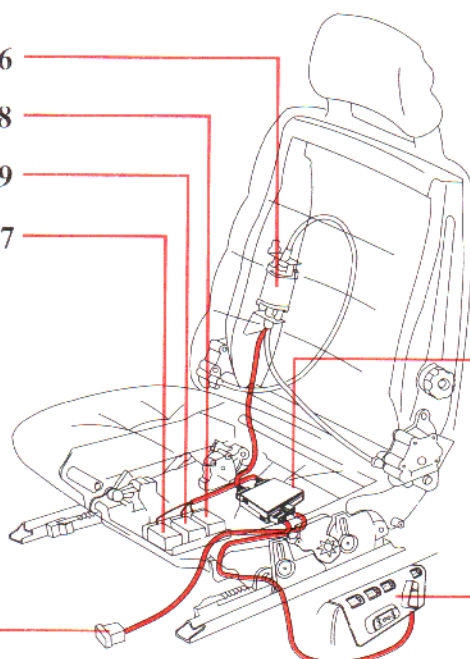


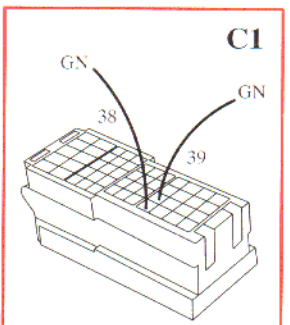
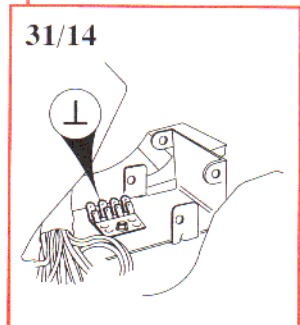
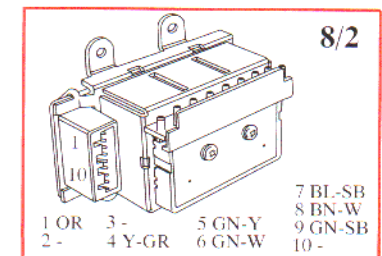
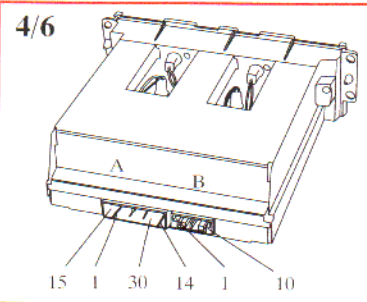
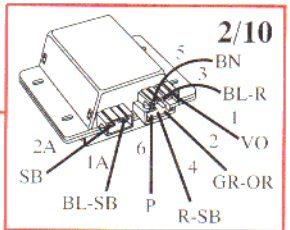
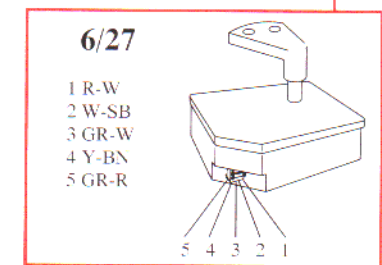
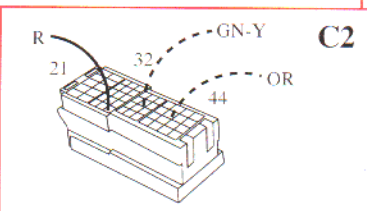
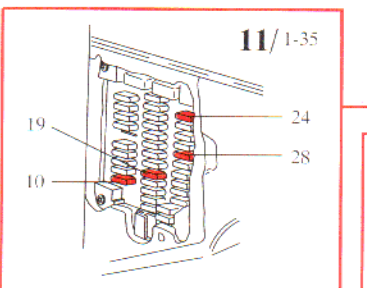
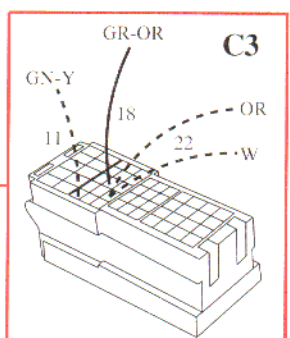
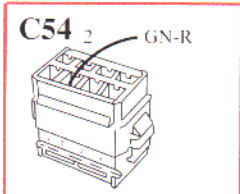
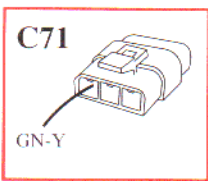
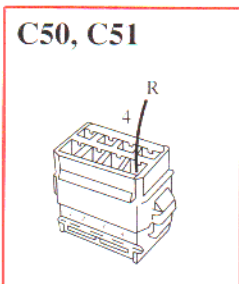
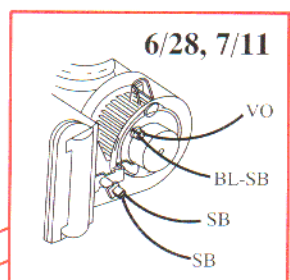
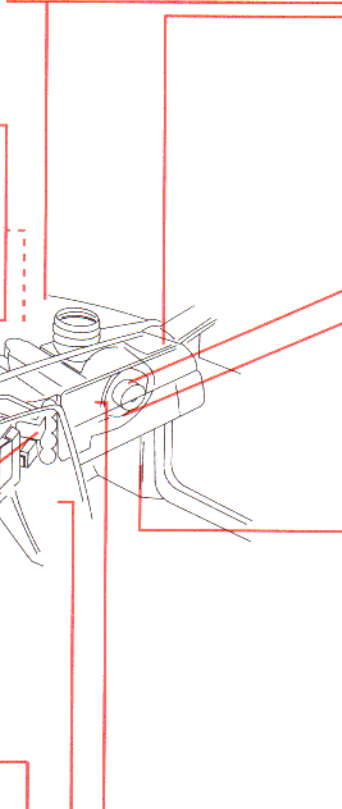
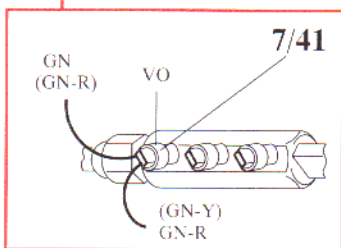
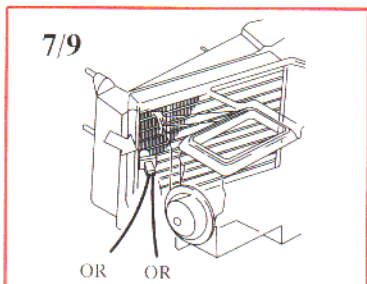
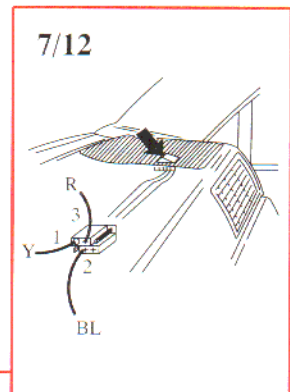
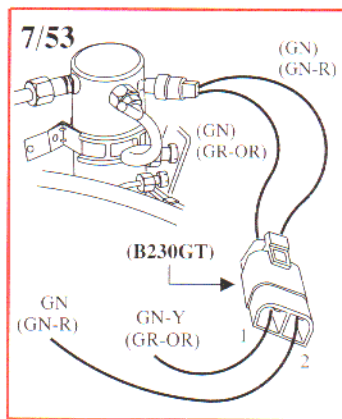
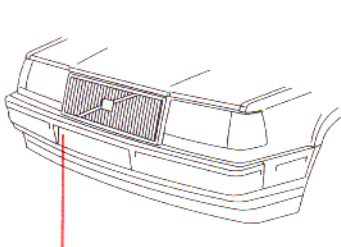
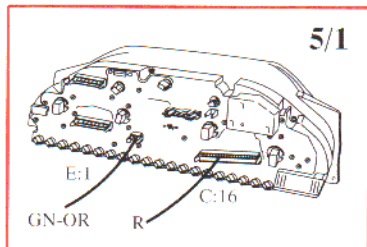
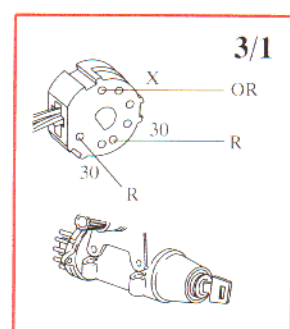
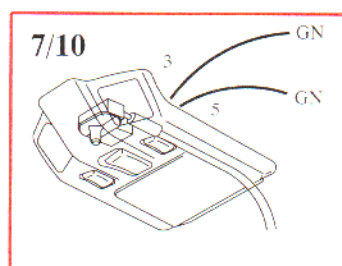
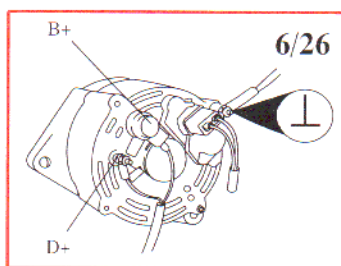
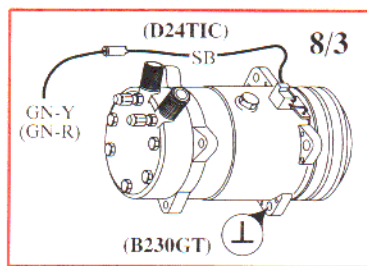
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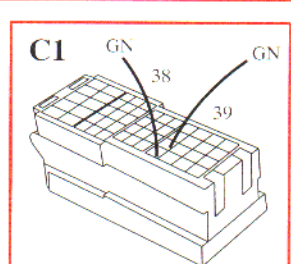
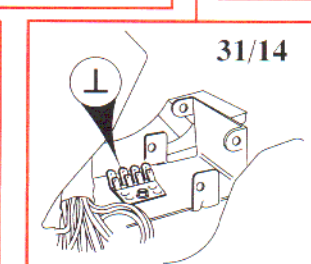
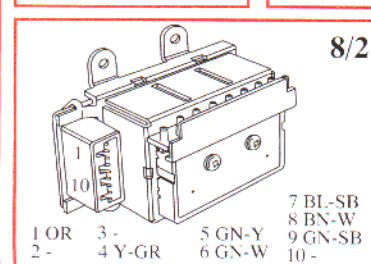
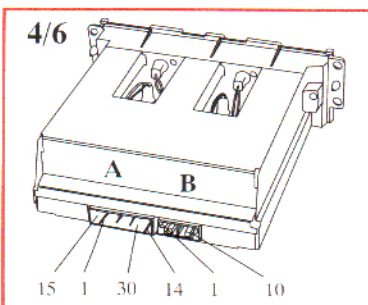
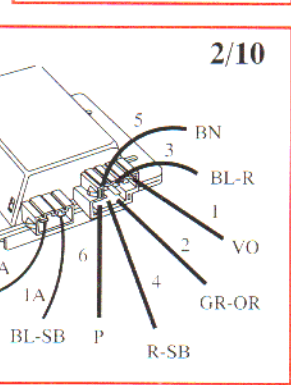
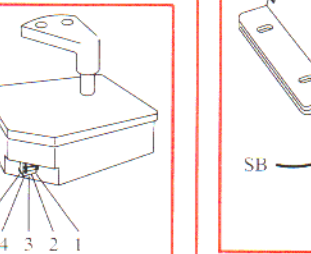
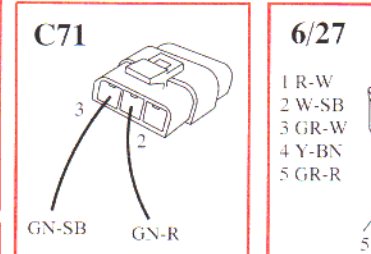
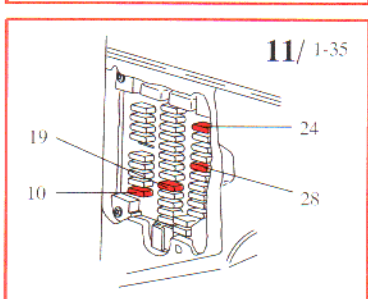
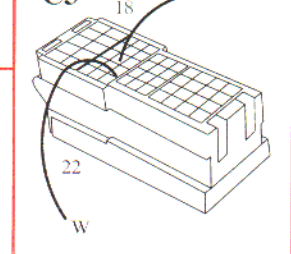
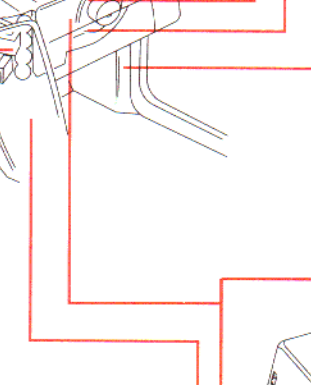
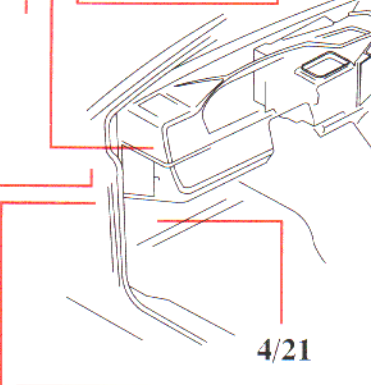
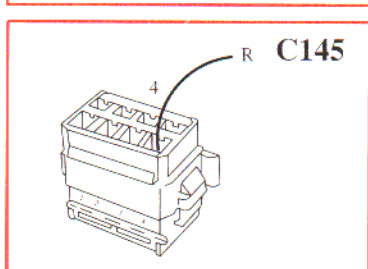
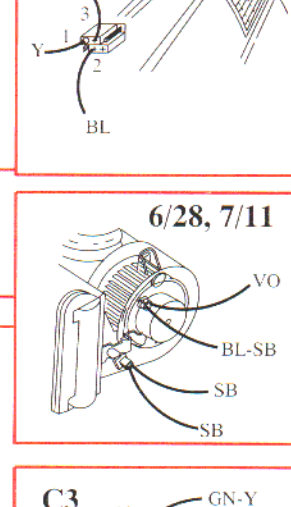
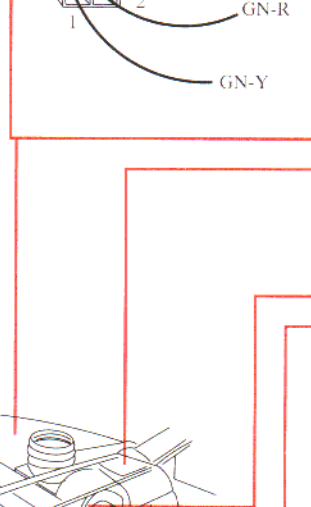
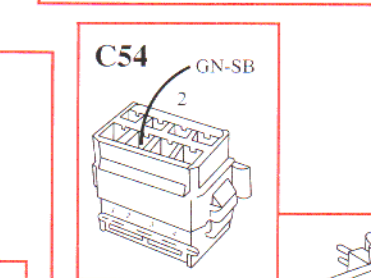
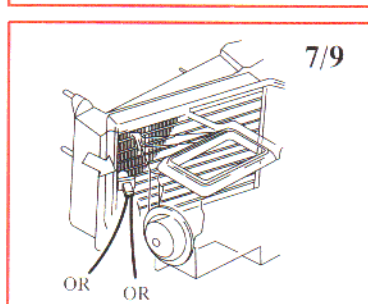
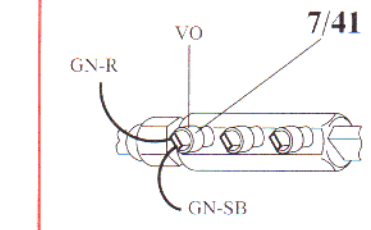
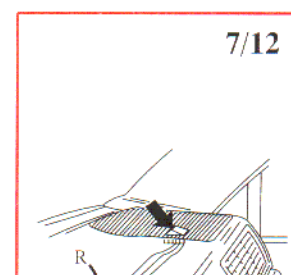
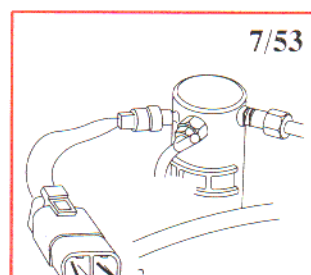
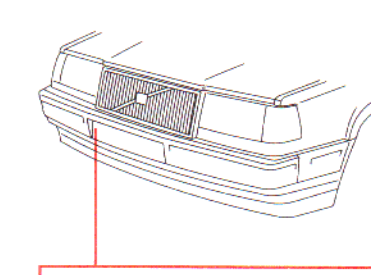
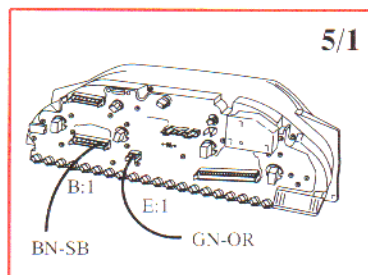
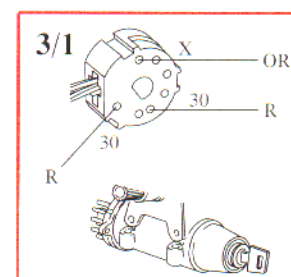
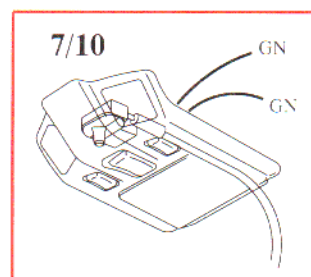
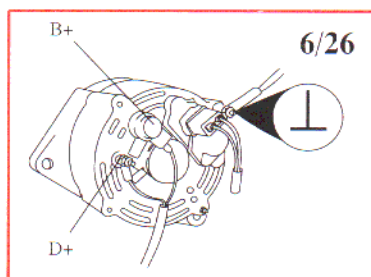
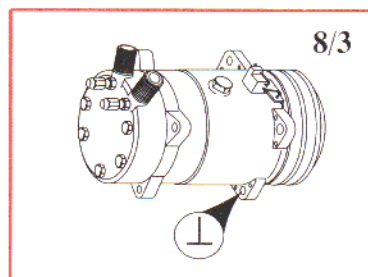
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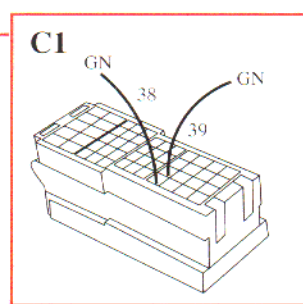
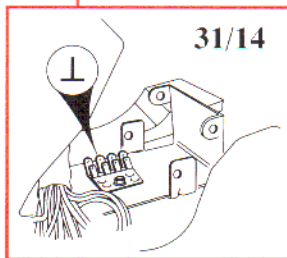
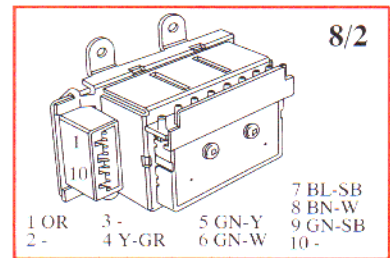
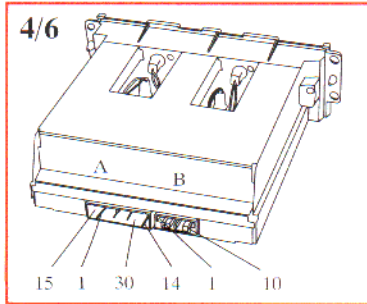
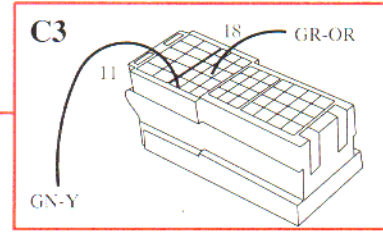
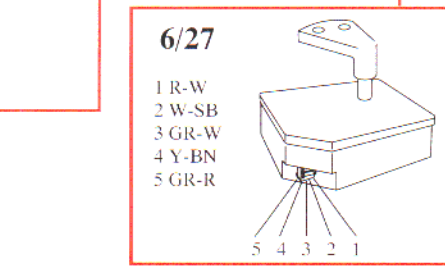
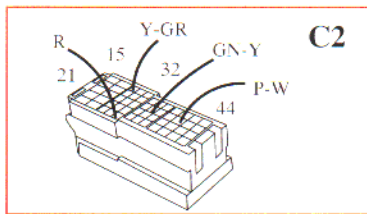
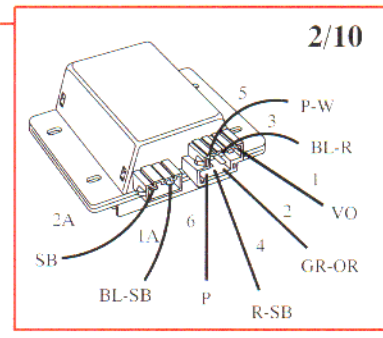
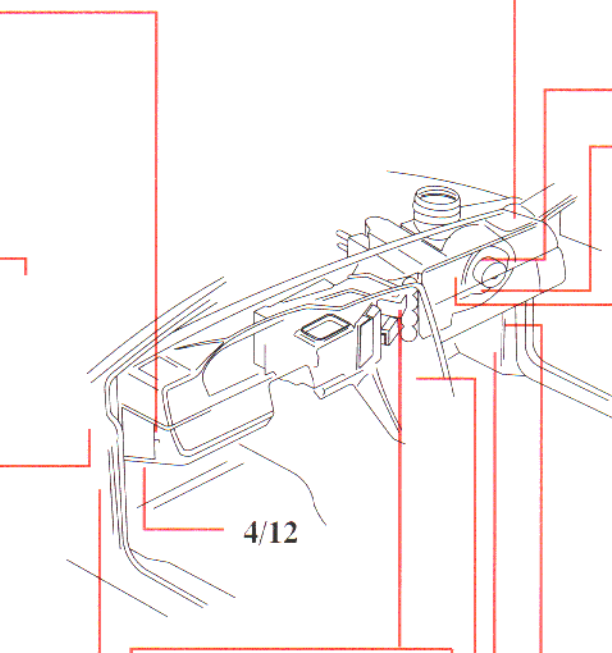
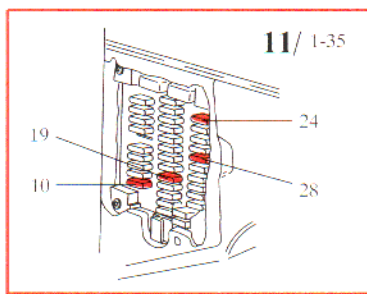
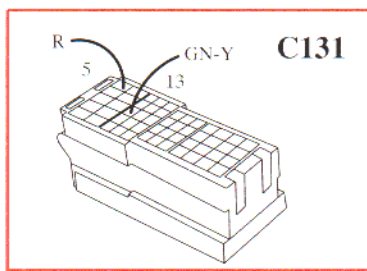
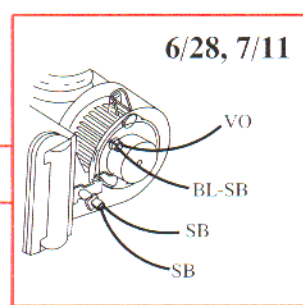
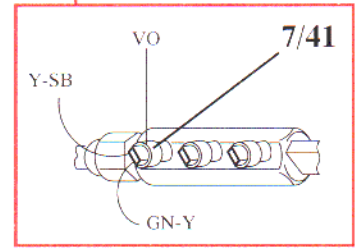
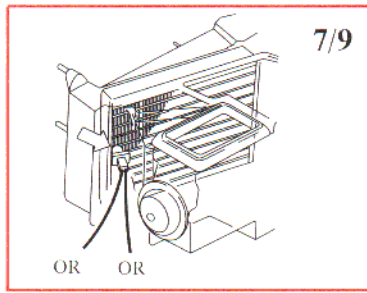
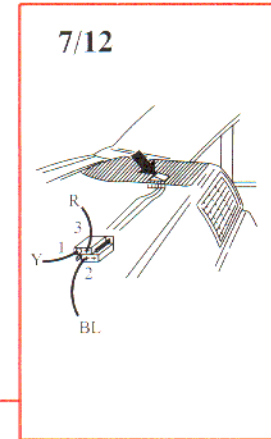
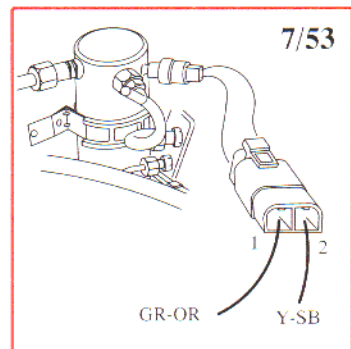
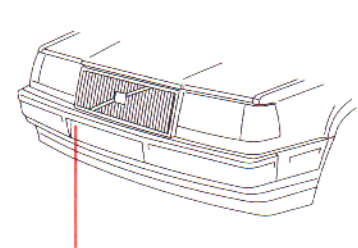
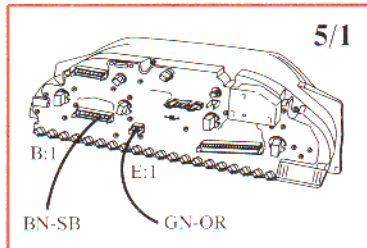
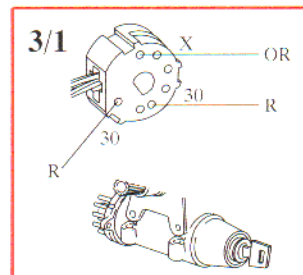
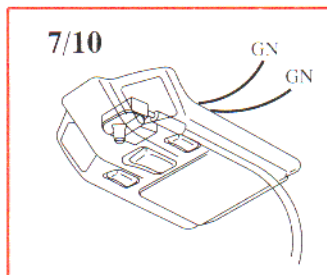
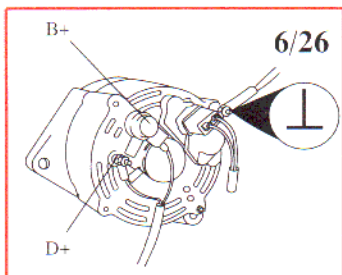
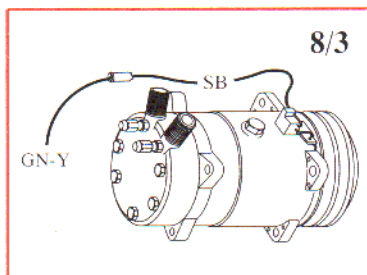
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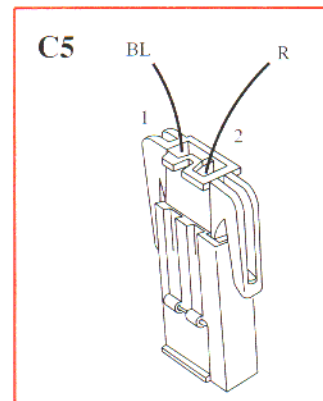
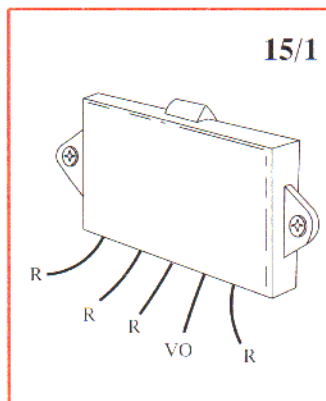
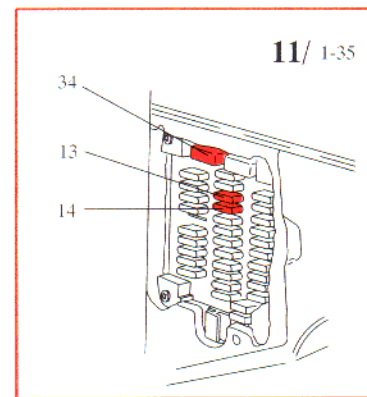
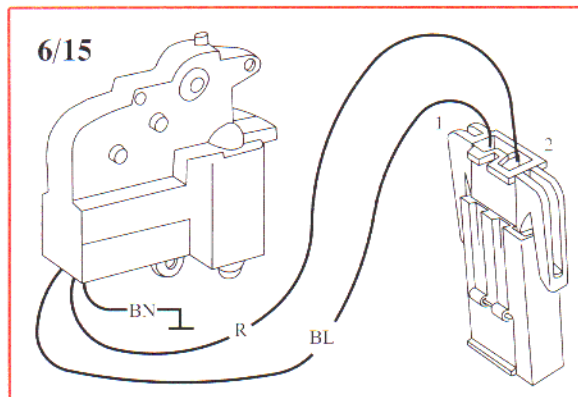
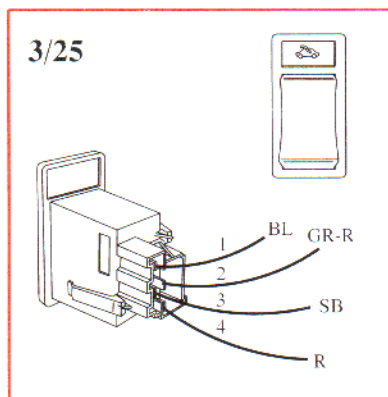
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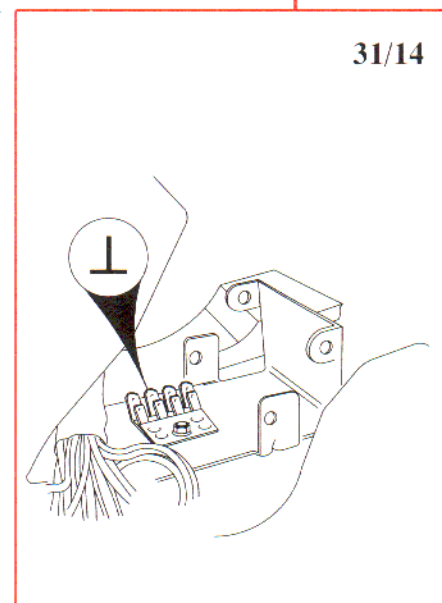
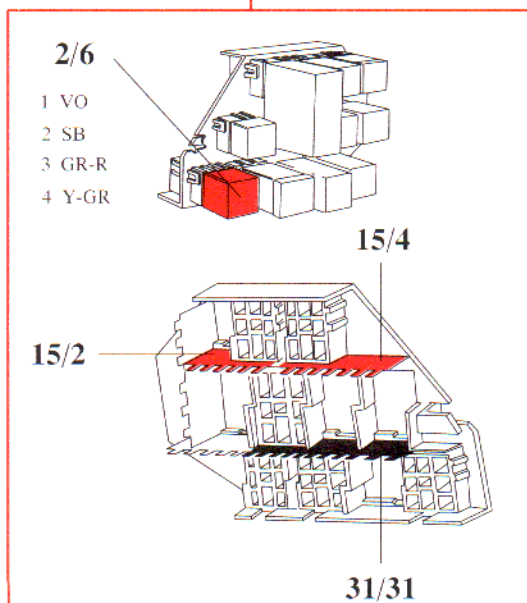
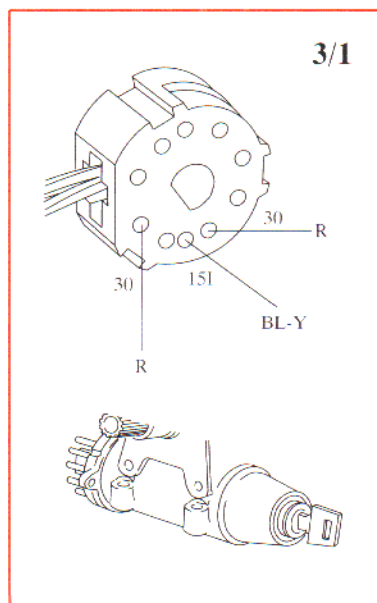
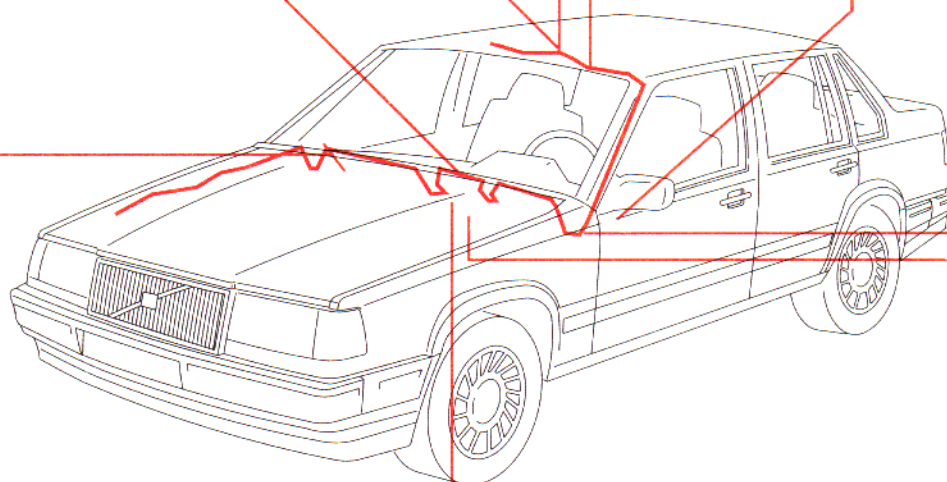


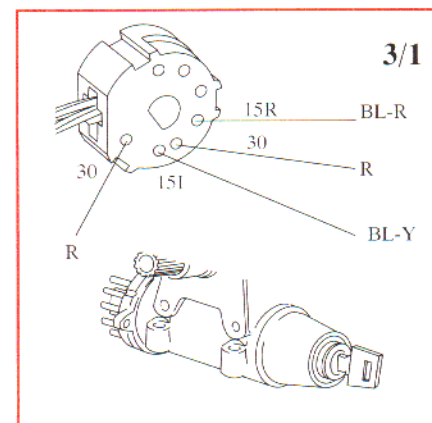
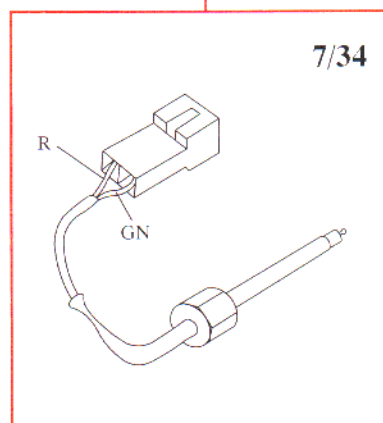
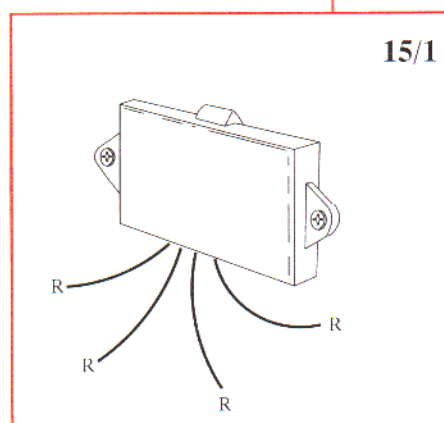
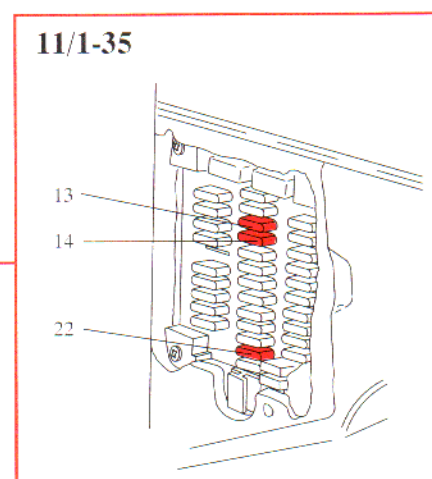
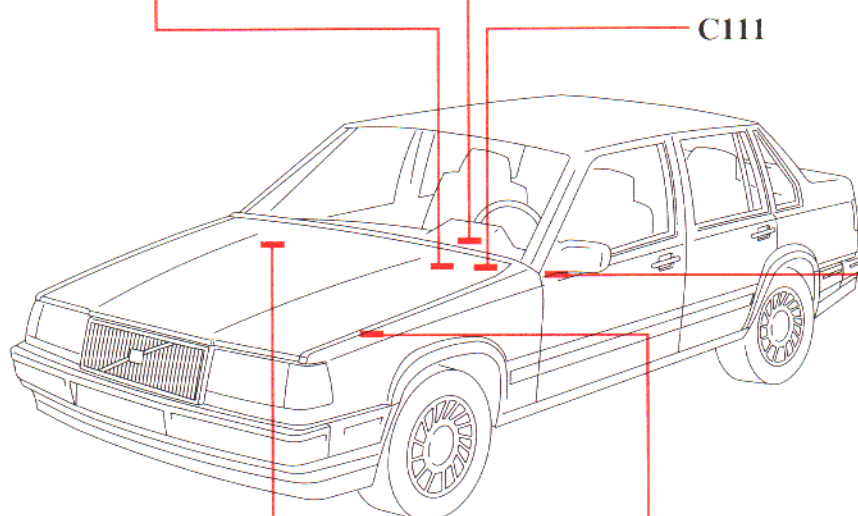
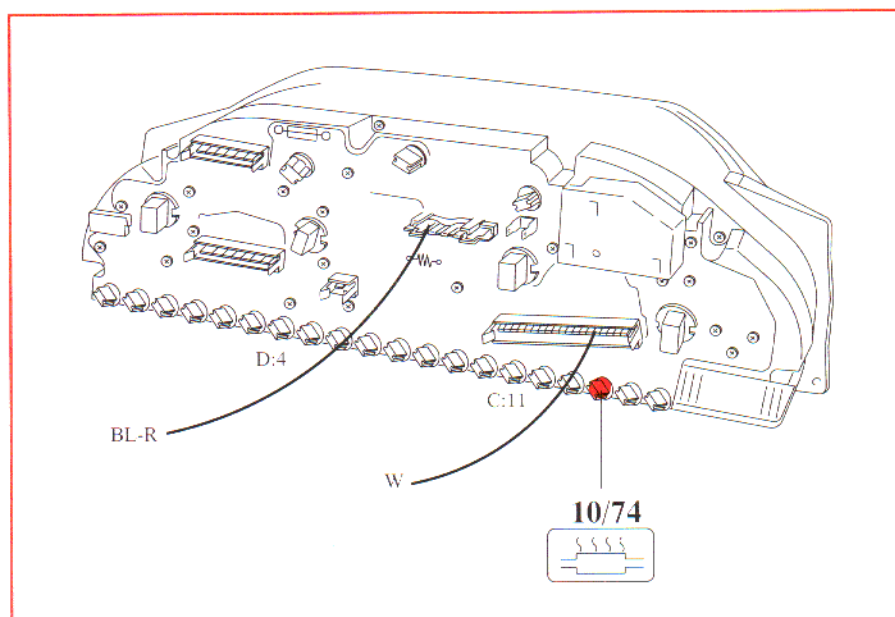
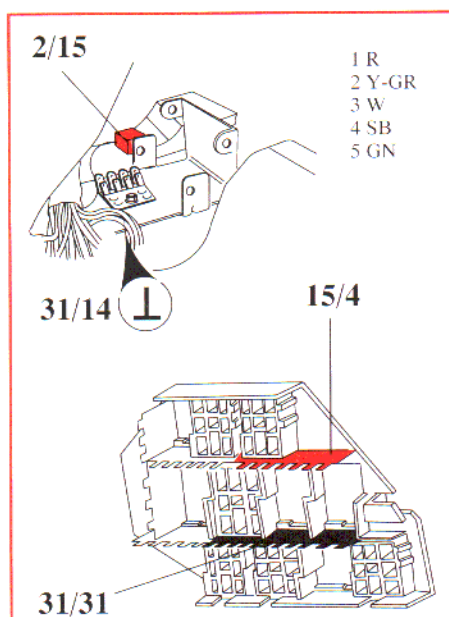


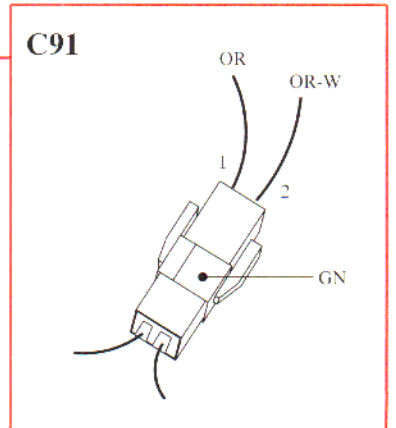
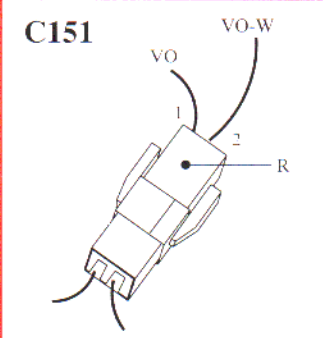
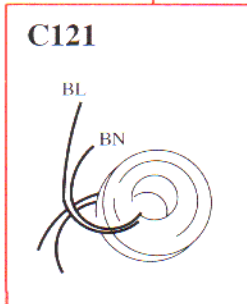
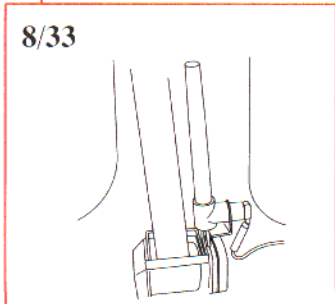
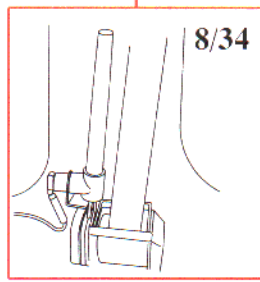
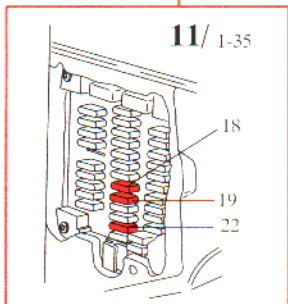
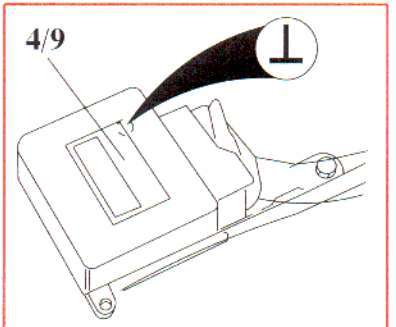
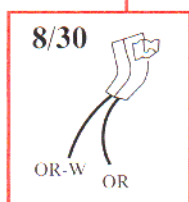
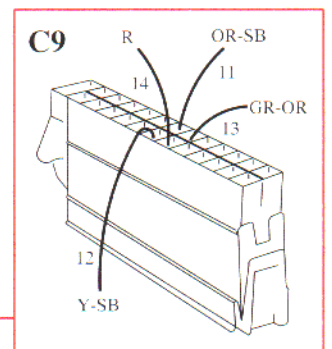
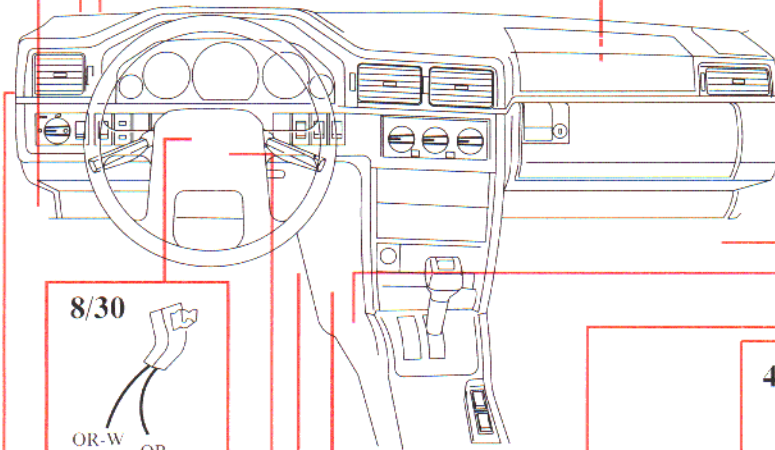
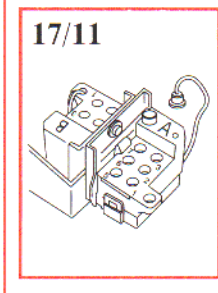
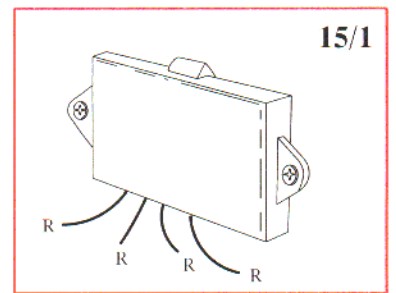
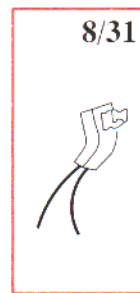
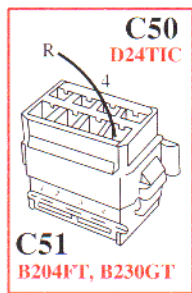
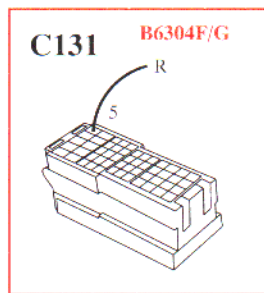
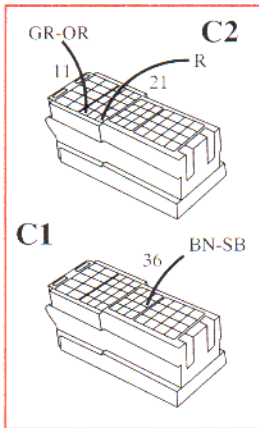
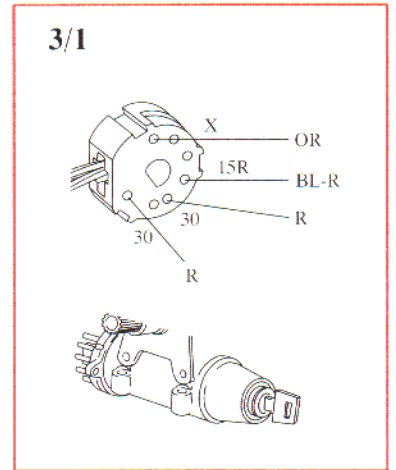
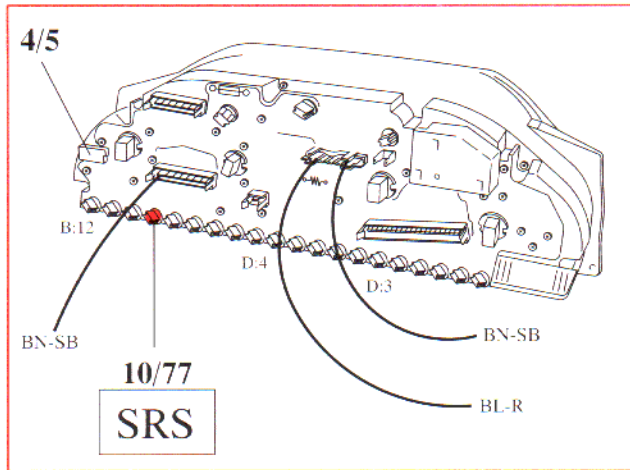
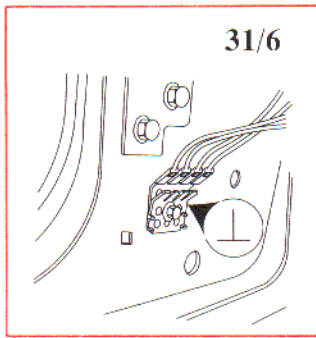


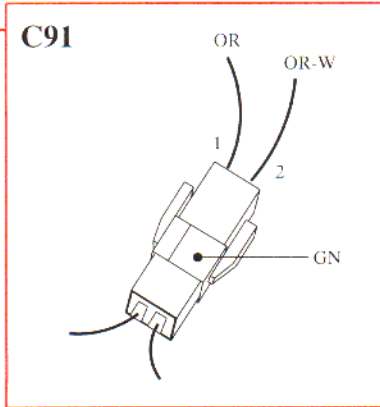
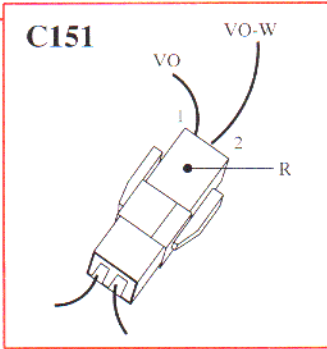
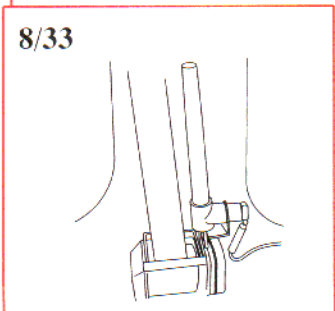
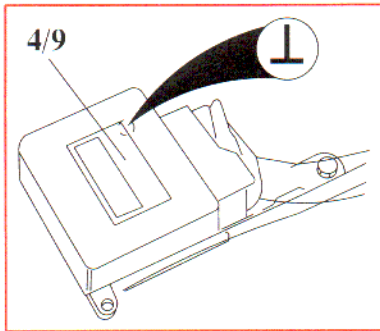
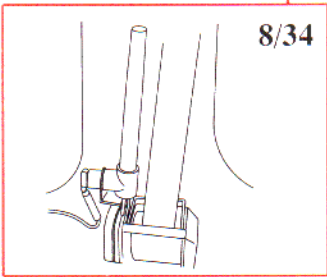
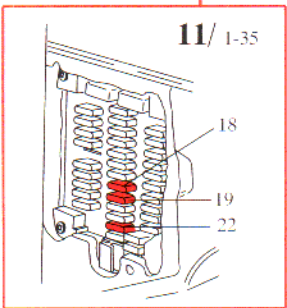
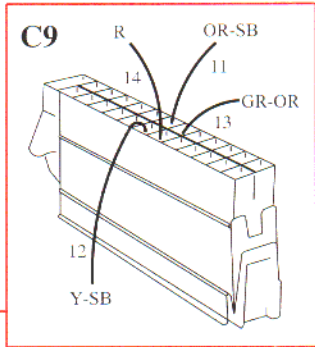
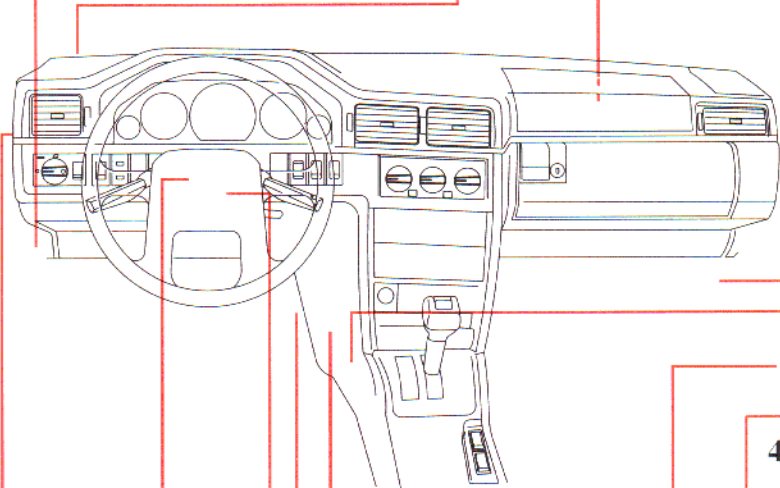
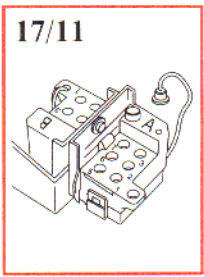
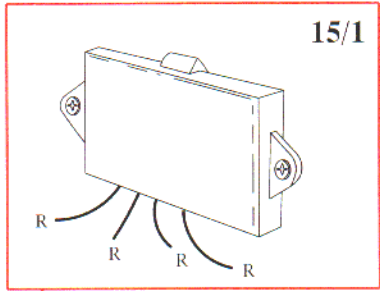
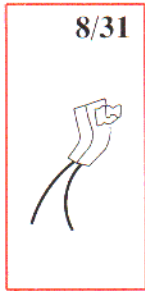
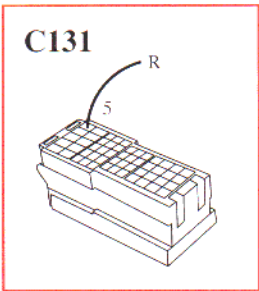
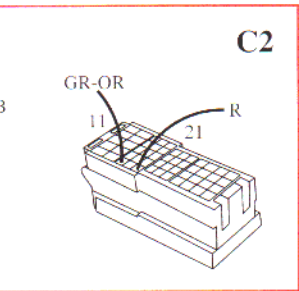
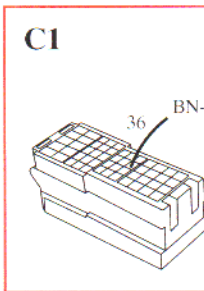
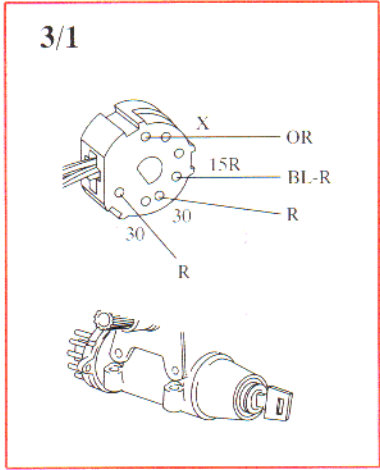
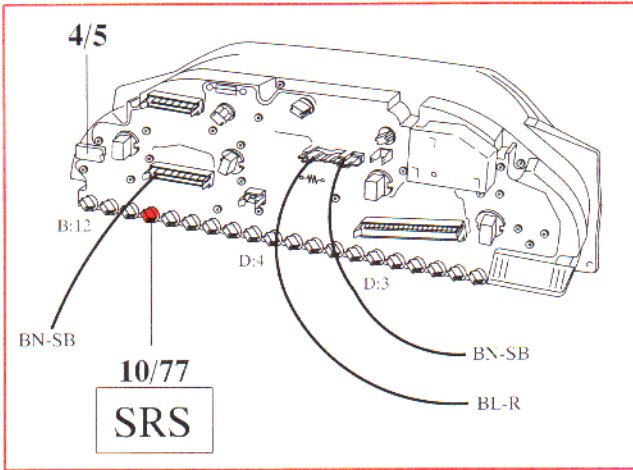
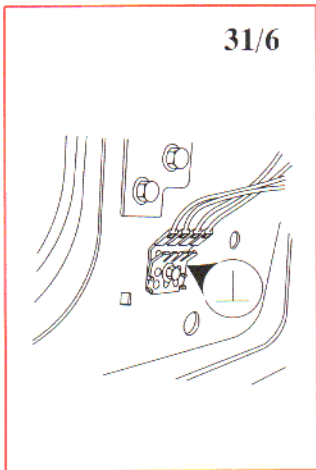


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7/12	Solar sensor	10/24	Trunk light
7/15	Heated oxygen sensor (HO2S)	10/25	Roof light, load area (5-door)
7/16	Engine coolant temperature (ECT) sensor, fuel/ignition system	10/26	Reading light, left rear
7/17	Mass air flow (MAF) sensor	10/27	Reading light, right rear
7/21	Camshaft position (CMP) sensor	10/29	Glove compartment light
7/22	Engine speed (RPM) sensor	10/30	Door open warning light driver's door
7/23	Knock sensor (KS), rear	10/31	Door open warning light passenger's door
7/24	Knock sensor (KS), front	10/32	Door open warning light driver's side rear
7/25	Impulse sensor	10/33	Door open warning light passenger's side rear
7/26	Pressure sensor, EGR	10/35	Switch lighting, sunroof switch
7/28	Engine coolant temperature (ECT) diesel	10/36	Control panel lighting
7/30	Pressure sensor for charge pressure, turbodiesel	10/37	Cigar lighter illumination
7/31	Sensor ABS left front	10/38	Ashtray illumination, rear
7/32	Sensor ABS right front	10/39	Seat heater switch illumination
7/33	Sensor speedometer and ABS	10/40	Gear selector illumination
7/34	Thermoelement three-way catalytic converter (TWC)	10/43	Right brake light
7/36	Exhaust temperature sensor	10/44	Right parking light rear
7/37	Temperature sensor EGR	10/45	Right parking / tail light
7/38	Low-speed pressure sensor, engine cooling fan	10/46	Right rear foglight
7/40	High-speed pressure sensor, engine cooling fan	10/47	Light, right rear turn signal
7/41	High-pressure sensor, A/C	10/48	Right backup (reversing) light
7/47	PTC-resistor air pre-heating	10/50	Left brake light
7/53	Low-pressure sensor, A/C	10/51	Left parking light, rear
7/54	Throttle position (TP) sensor	10/52	Left parking / tail light
7/69	Ambient temperature sensor	10/53	Left rear foglight
7/73	Engine coolant level sensor	10/54	Lamp left rear turn signal
7/74	Oil temperature sensor AW30-40/43	10/55	Left backup (reversing) light
7/76	Temperature sensor TCU	10/64	Right high beam
8/1	Operating solenoid, overdrive	10/65	Right extra high beam
8/2	Operating solenoids, ECC	10/66	Right low beam
8/3	Solenoid coupling, A/C	10/68	Left high beam
8/5	Idle air control (IAC) valve	10/69	Left extra high beam
8/6-11	Injectors	10/70	Left low beam
8/13	Fuel valve, diesel	10/72	Ashtray illumination, front
8/14	Solenoid valve, overload protector	10/74	Indicator light exhaust temperature
8/15	Hydraulic unit ABS	10/75	Indicator light charge pressure, turbodiesel
8/17	Converter, EGR	10/76	Indicator light diesel preheating
8/24	3-way valve EGR	10/77	Indicator light SRS
8/28	Turbo control valve	10/78	Indicator light seat belt
8/30	Steering wheel module SRS	10/79	Indicator light overdrive (auto.)/gear change indicator
8/31	Passenger module SRS	10/80	Indicator light overdrive (man.)
8/33	Igniter, seat belt pre-tensioner, left side	10/81	Indicator light engine coolant level
8/34	Igniter, seat belt pre-tensioner, right side	10/82	Indicator light ABS
8/36	Solenoid P-shift lock	10/83	Indicator light parking brake
8/37	Solenoids AW30-40/43	10/84	Indicator light brake warning
9/1	Cigar lighter	10/85	Indicator light high beam
9/2	Heated rear window	10/86	Indicator light oil pressure
9/3	Heater element driver's seat backrest	10/87	Indicator light charging
9/4	Heater element passenger's seat backrest	10/88	Indicator light bulb failure sensor
9/5	Heater element driver's seat cushion	10/89	Indicator light rear foglights
9/6	Heater element passenger's seat cushion	10/90	Indicator light washer fluid level sensor
10/1	Left front light	10/91	Service indicator
10/2	Right front light	10/92	Indicator light trailer
10/5	Left front foglight	10/93	Indicator light
10/6	Right front foglight		Malfunction Indicator Lamp (MIL)
10/9	Left parking light and front turn signal	10/94	Indicator light right turn signal
10/10	Right parking light and front turn signal	10/95	Indicator light left turn signal
10/11	Left parking light, front	10/96	Instrument lighting
10/12	Right parking light, front	10/114	Vanity mirror light, right side
10/13	Left turn signal front	10/115	Vanity mirror light, left side
10/14	Right turn signal front	10/116	Spare fuse illumination
10/15	Left turn signal side repeater (not USA/CDN)	11/1-35	Fuses
10/16	Right turn signal side repeater (not USA/CDN)	11/41	Fuse, combined instrument
10/17	Right tail light		
10/18	Left tail light		
10/19	Extra brake light		
10/20	Left number plate light		
10/21	Right number plate light		
10/22	Roof light		

The component list continues on the next page

15/1	Positive terminal	C8	Connector 4-pin (accessories)
15/2	30-rail in relay unit	C9	Connector at centre console 24-pin
15/3	30-rail in fusebox	C12	Connector at relay unit, 2-pin
15/4	15I-rail in relay unit	C14	Connector at relay unit, 2-pin
15/6	Fuse-protected 30-rail in relay unit	C15	Connector at transmission, 4-pin
15/9	X-rail in relay unit	C20	Connector under gear lever carrier, 2-pin
16/1	Radio	C21	Connector left B-post, 6-pin
16/3	Loudspeaker right front door	C22	Connector at trunk, 6-pin
16/4	Loudspeaker left front door	C23	Connector at tailgate, 2-pin (5-door)
16/5	Loudspeaker right rear door	C25	Connector trunk, 2-pin
16/6	Loudspeaker left rear door	C27	Connector trunk, 1-pin
16/7	Loudspeaker instrument panel right side	C31	Connector at passenger seat, 2-pin
16/8	Loudspeaker instrument panel left side	C32	Connector at driver's seat, 2-pin
16/9	Antenna	C33	Connector under driver's seat, 2-pin
16/10	Horn 1	C34	Connector under passenger's seat, 2-pin
16/11	Horn 2	C36	Connector under passenger's seat, 2-pin
16/15	CD-changer	C37	Connector under driver's seat, 2-pin
16/17	Loudspeaker, parcel shelf left side/D-post left side	C39	Connector at driver's seat, 4-pin
16/18	Loudspeaker, parcel shelf right side/D-post right side	C40	Connector at passenger's seat, 4-pin
17/1	Service socket for starter motor operation	C41	Connector under driver's seat, 6-pin
17/8	Service socket: clamp 1, cyl. 1 (engine)	C42	Connector under driver's seat, 2-pin
17/11	OBD diagnostic socket	C50	Connector 8-pin
18/1	Bridge connector 1		Left wheel housing harness - Engine wiring harness
18/2	Bridge connector 2	C51	Connector 8-pin
19/1	Engine coolant temperature (ECT) sensor		Left wheel housing harness - Engine wiring harness
19/2	Engine speed (RPM) sensor	C54	Connector 8-pin
19/3	Speedometer		Right wheel housing harness - Engine wiring harness
19/4	Clock	C55	Connector 8-pin
19/5	Fuel level sensor		Right wheel housing harness - Engine wiring harness
20/1	Ignition coil	C57	Connector at right suspension tower, 3-pin
20/2	Distributor	C61	Connector at right A-post, 8-pin
20/3-8	Spark plugs (ignition coils)	C63	Connector at left headlight, 3-pin
20/9	Glowplugs	C64	Connector at right headlight, 3-pin
20/15	Series resistance	C71	Connector 3-pin
31/1	Ground connector right front wing		Left wheel housing harness - Engine wiring harness
31/2	Ground connector left front wing	C72	Connector driver's door, 2-pin
31/3	Ground connector body	C73	Connector passenger's door, 2-pin
31/4	Ground connector engine	C74	Connector rear door, driver's side, 2-pin
31/5	Ground connector for heated rear window (4-door)	C75	Connector rear door, passenger's side, 2-pin
31/6	Ground connector left A-post	C79	Connector driver's door, 4-pin
31/9	Ground connector at parking brake lever	C91	Connector at relay unit, 2-pin
31/10	Ground connector right A-post	C93	Connector left rear wheel housing, 4-pin
31/11	Ground connector left tail light cluster	C98	Connector at power antenna, 4-pin
31/12	Ground connector right tail light cluster	C102	Connector at relay unit, 2-pin
31/13	Ground connector in trunk	C105	Connector for bridge coupling, 2-pin
31/14	Ground connector at relay unit	C111	Connector to temperature sensor, 2-pin
31/16	Ground connector at windshield wiper motor	C121	Coupling reel, steering wheel, SRS
31/17	Ground connector at power sunroof motor	C122	Connector at trunk/tailgate, 2-pin
31/18	Ground connector at centre console	C123	Connector for bridge coupling, 2-pin
31/26	Ground connector generator	C124	Connector at left wheel housing, 2-pin
31/28	Ground connector at overdrive operating solenoid	C128	Connector at AW30-40/43, 8-pin
31/30	Ground connector, A/C solenoid coupling	C129	Connector at AW30-40/43, 8-pin
31/31	Ground connector rail in relay unit	C130	Connector at AW30-40/43, 4-pin
31/32	Ground connector on engine (power ground)	C131	Connector at left suspension tower, 53-pin
31/33	Ground connector on engine (signal ground)	C132	Connector 8-pin
31/34	Ground connector tailgate connector		Left wheel housing harness - Engine wiring harness
31/35	Ground connector, antenna	C134	Connector at left engine anchorage, 1-pin
31/42	Ground connector rail via door switch, left front	C139	Connector at gear selector, 4-pin
31/56	Ground connector gear selector sensor	C143	Connector at A-post passenger's side, 24-pin
31/57	Ground connector on engine for Motronic (power ground)	C144	Connector at A-post driver's side, 24-pin
31/64	Ground connector engine cooling fan	C145	Connector, 8-pin
C1	Connector 53-pin		Left wheel housing harness - Engine wiring harness
	Instrument panel harness - Door sill harness	C149	Connector at B-post passenger's side, 11-pin
C2	Connector 53-pin	C150	Connector at B-post driver's side, 11-pin
	Instr. panel harness - Left wheel housing harness	C151	Connector at relay unit, 2-pin
C3	Connector 53-pin	C159	Connector, 2-pin, ECC engine coolant temp. (ECT) sensor
	Instr. panel harness - Right wheel housing harness	C166	Connector at relay unit, 8-pin
C5	Connector left A-post, 2-pin	C300	Connector at firewall, 4-pin (to HO2S)
C6	Connector at relay unit, 4-pin	D2	Connector alarm, 8-pin at steering column
C7	Connector at steering column, 8-pin	D3	Connector alarm, 4-pin at steering column
		D4	Connector alarm, 2-pin in engine compartment, left front
		D5	Connector towing hook, 10-pin (not USA/CDN)
		D6	Connector ambient temperature sensor, 2-pin ahead of left front wheel
		D7	Connector ambient temperature sensor, 6-pin