

How to use the wiring diagrams

Look up the relevant electrical function in the index.
 Let us say you want to look at the windshield wash/wipe system.
 According to the index, the windshield wash/wipe system is found on page 90.

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.

A chart is often used to illustrate the functions of a switch.

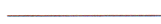



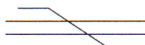
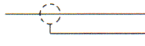


The chart will show which functions are associated with the different positions on the switch (in this case the ignition switch).

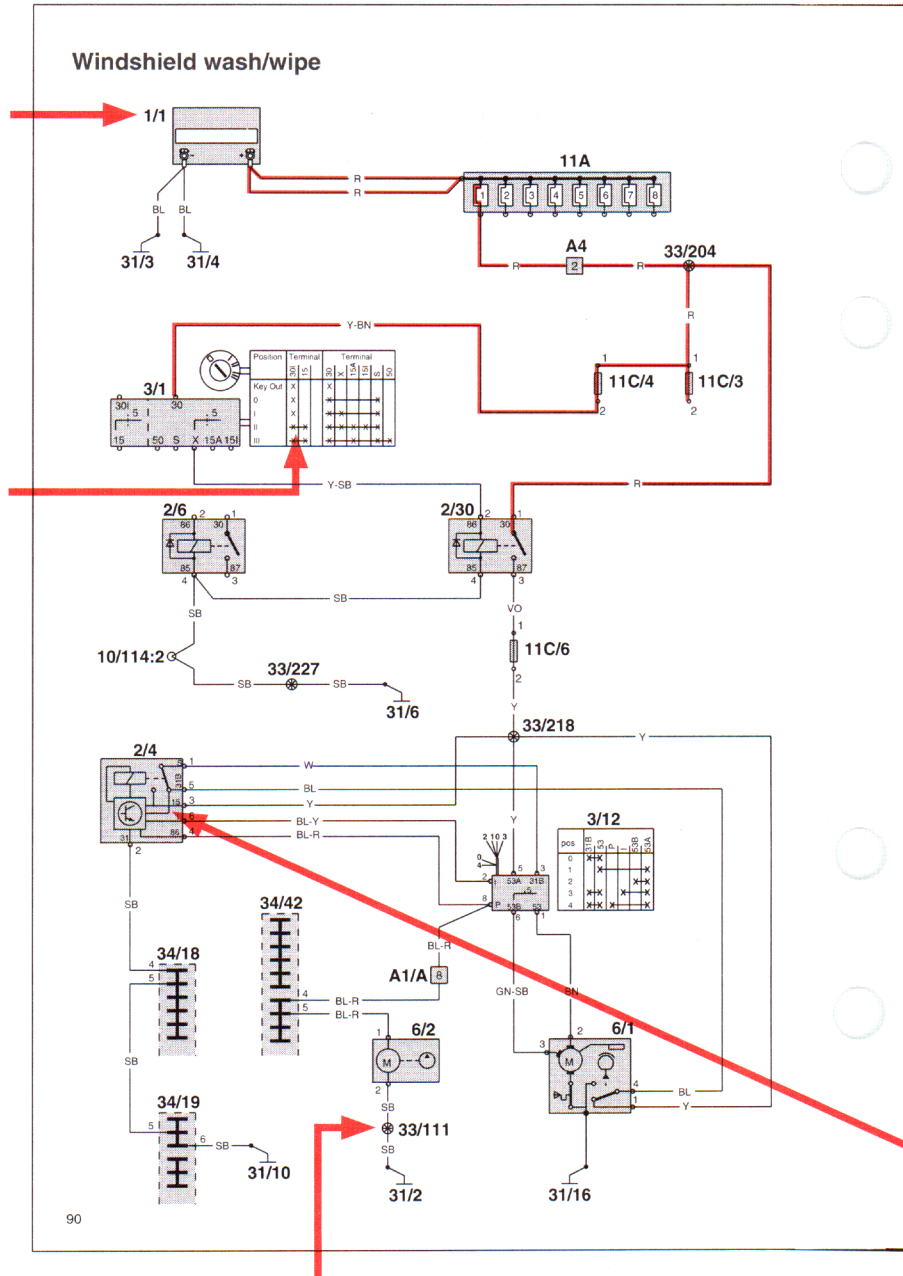
Wire colors are indicated with letters of the alphabet:

- 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.

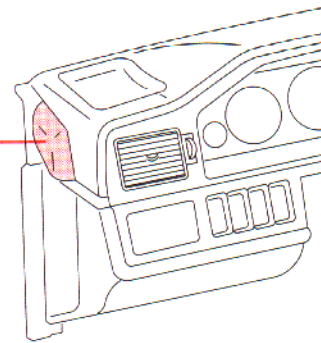
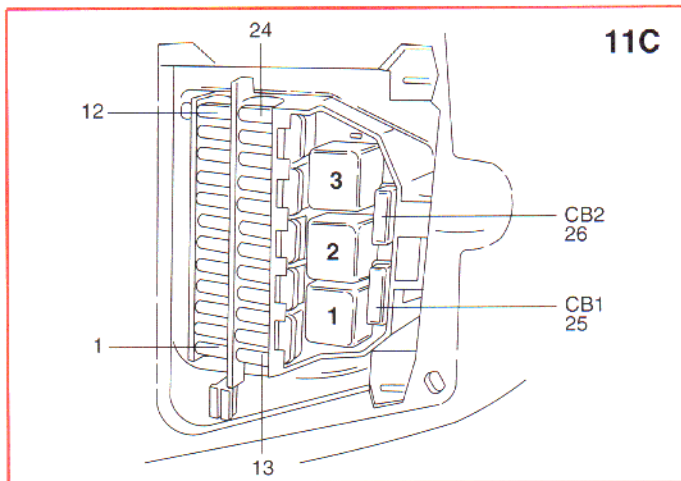
Code to colours in the wiring diagram

-  = no voltage
-  = system voltage
-  = voltage lower than system voltage
-  = ground connection
-  = intertwined wires
-  = screened wire
-  = branch point
-  = cable continues to component



Branching points are numbered. On pages 14-29 you will find a list of the branching points where you can see to which other components the branching point leads.

Fuse box / relays in car



Relays in fuse box

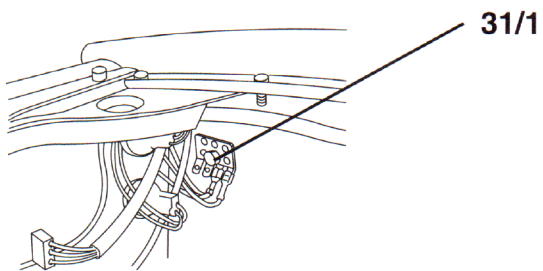
- 1 Overload relay X+, 2/30
- 2 Fuel pump relay, 2/23
- 3 Overload relay 15I+, 2/6

No.	Fused function	Supply	Ampere
1	Relay, el. heated rear window/door mirrors	30+	25
2	Central locking Anti-theft alarm	30+	20
3	Brake lights Light switch	30+	15
4	Ignition switch SRS	30+	10
5	Spare	X+	
6	Windshield wash/wipe Headlight wash/wipe Horn relay	X+	25
7	Climate unit	X+	20
8	Power seat Power door mirrors Tailgate wash/wipe 5-door Rheostat Ambient temperature sensor	X+	15
9	Radio	X+	15
10	Beam width control Cigar lighter	X+	15
11	Courtesy lighting Mode selector, AW30-40/43	15A+	5
12	ABS	15A+	5
13	Clock Courtesy and glove compartment lighting Door warning lights Trunk lighting Vanity mirror lighting	30+	10
14	Anti-theft alarm	30+	5
15	Power antenna High beam flash Compact Disc changer Indicator lamp, trailer	30+	20
16	(Parking heater)	30+	20
17	Turn signal indicator-hazard flashers Anti-theft alarm	30+	20
18	Radio	30+	15
19	Backup (reversing) lights Turn indicator Cruise control	15I+	15
20	Light switch	15I+	15
21	Seat belt reminder P-shift lock Heated rear window and door mirrors Rear bulb malfunction indicator, connection 8 Temperature sensor (Japan)	15I+	5
22	Heated driver seat +15I	15I+	15
23	Heated passenger seat +15I	15I+	15
24	Switch, rear fog light	15I+ (via 3/2)	5

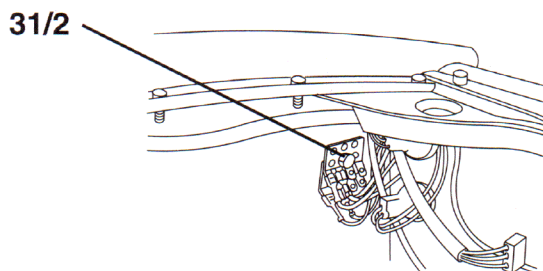
Automatic fuses

CB1	Power seat	30+	30
CB2	Power windows Power sunroof	15I+	30

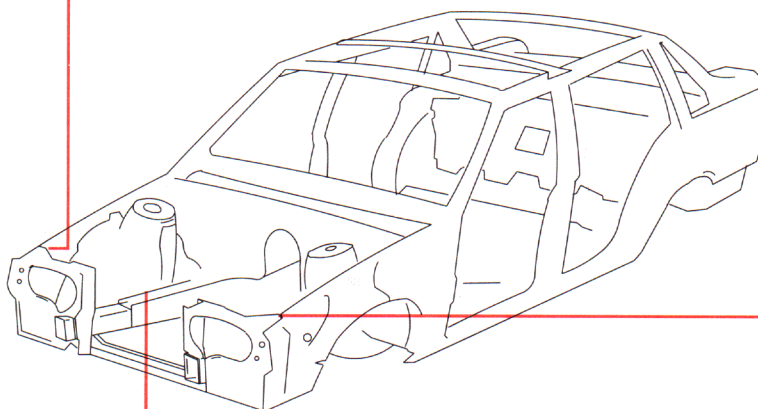
Ground connections



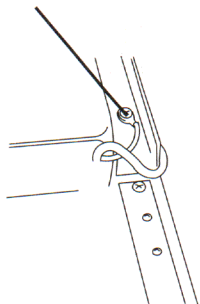
Right headlight
 Right flasher light
 Right parking light
 Right fog light
 Right headlight wiper motor
 Hydraulic modulator ABS
 Air pump motor (Motronic 4.3 MFI)
 Pressure indicator relay, engine cooling fan
 Coolant level sensor



Horn
 Left headlight
 Left flasher light
 Left parking light
 Left headlight wiper motor
 Main headlight relay with bulb malfunction warning
 Washer motor front
 Washer fluid level indicator
 Left fog light
 Terminal block, 34/42, in relay/fuse box in engine compartment
 Fog light relay, 2/66 (USA)
 Brake fluid level sensor
 OBDII (Diagnostic) socket A

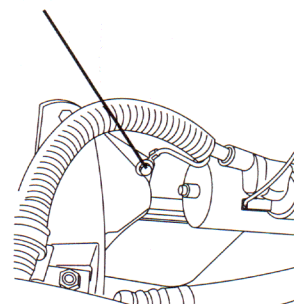


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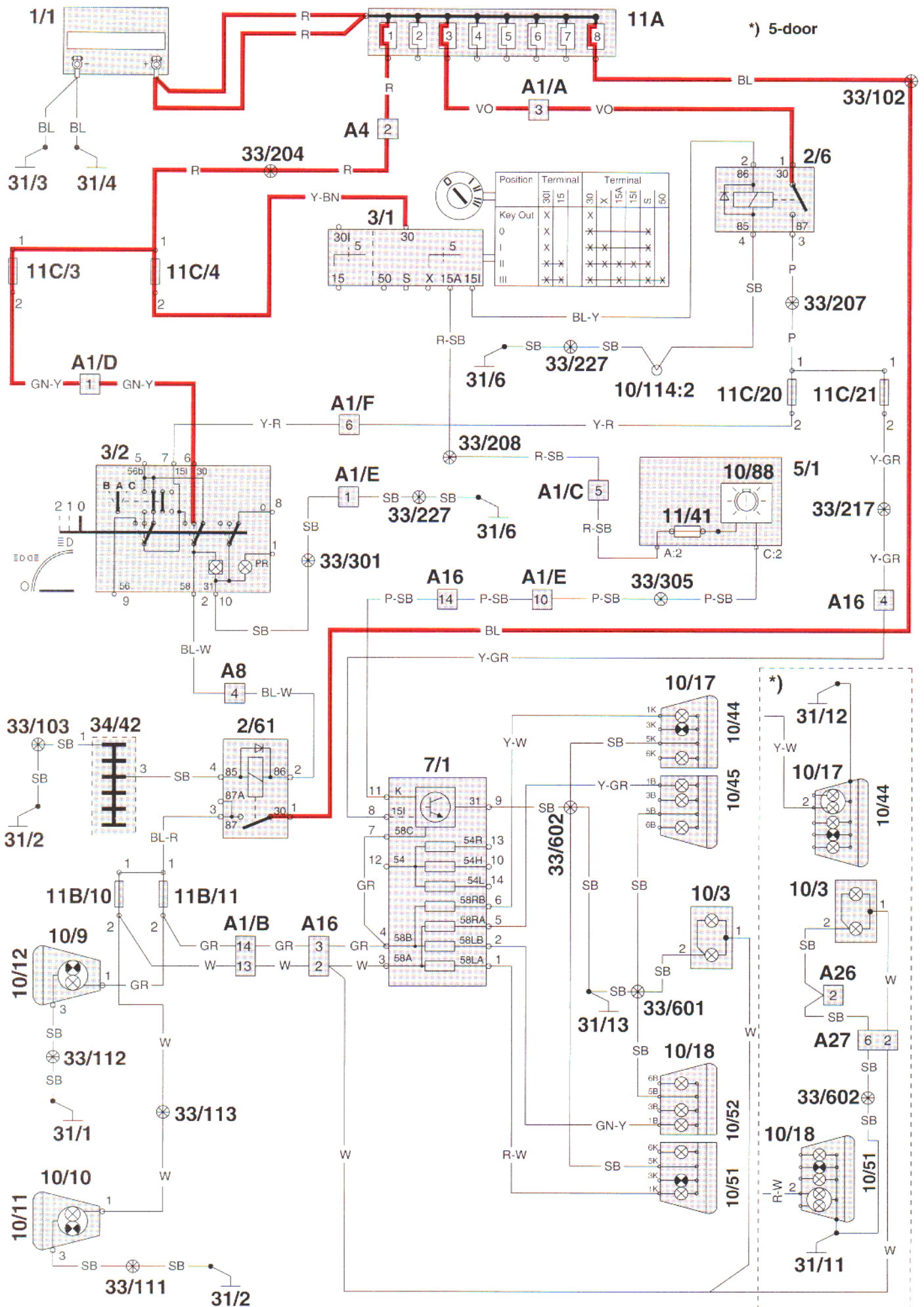
Ground connection
battery - chassis

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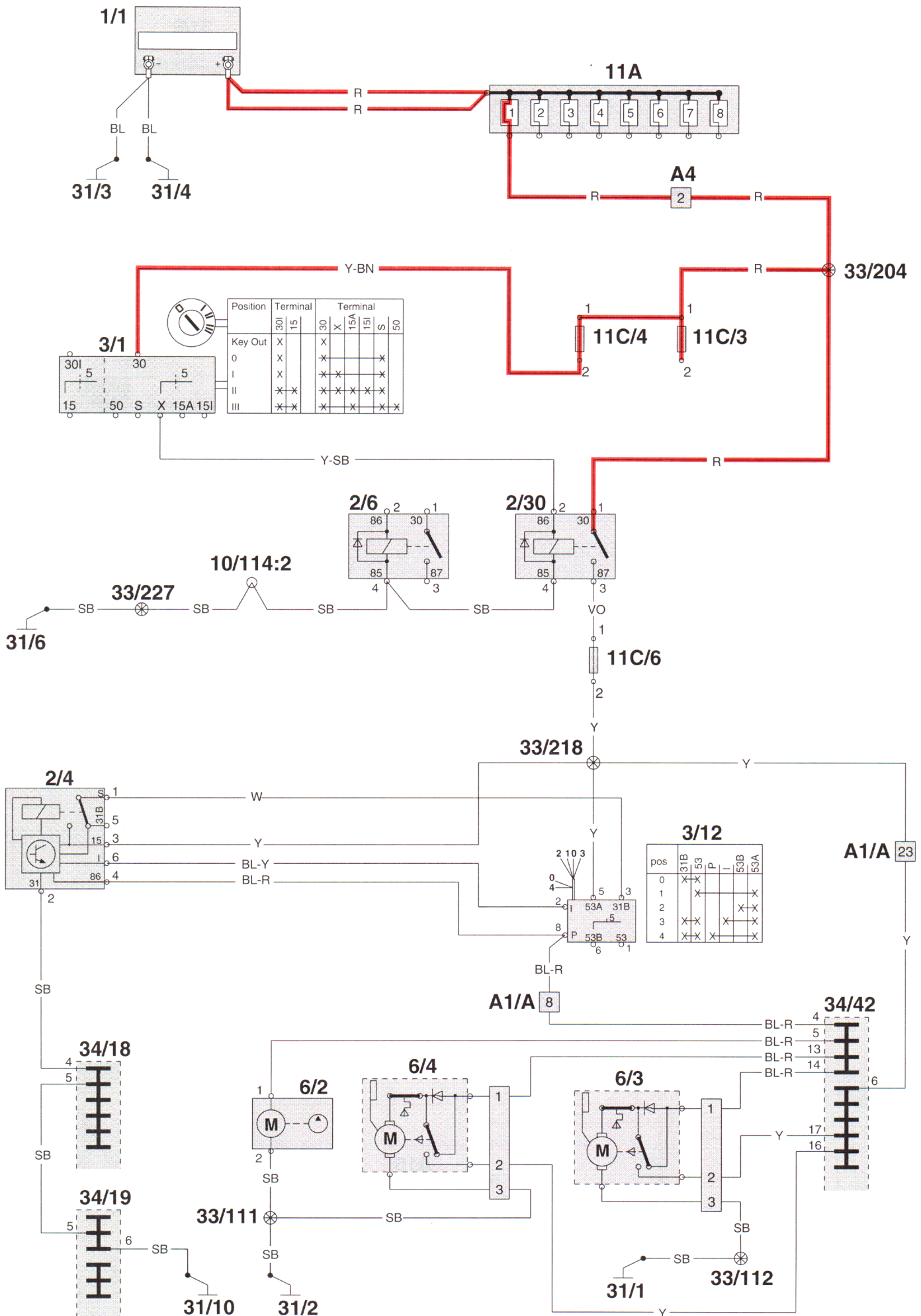


Ground connection
battery - engine

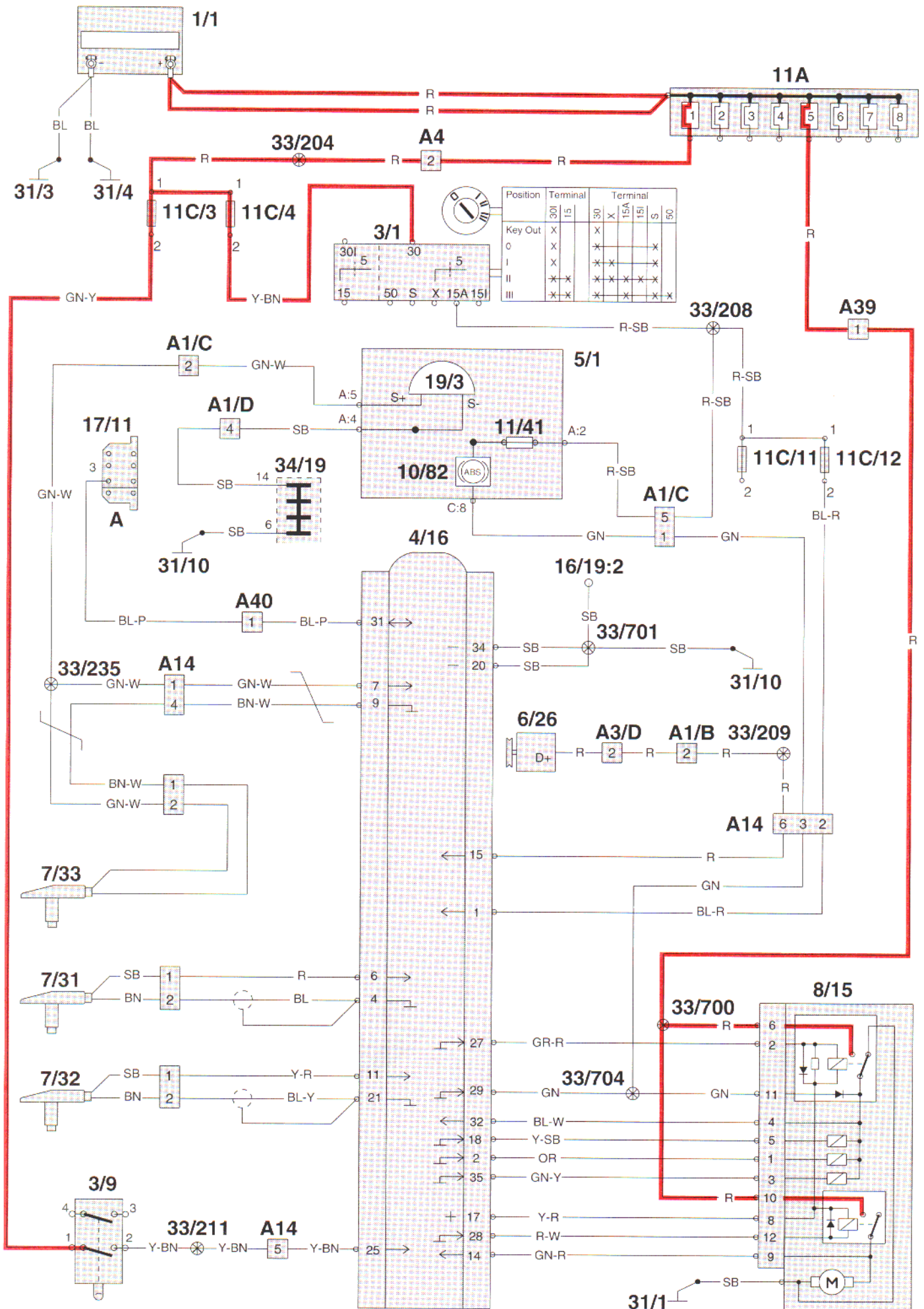
Parking lights, tail lights and license plate lights USA, Canada



Headlamps wash/wipe

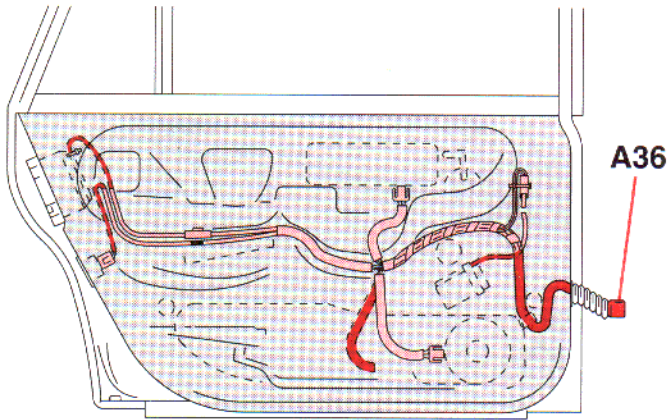


Anti-lock braking system ABS

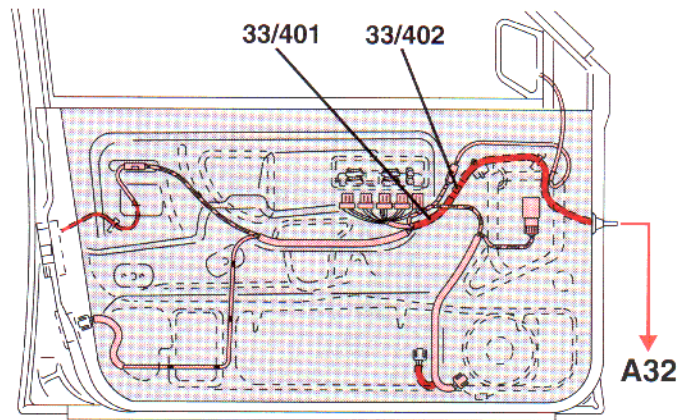


Cable harness routing in car

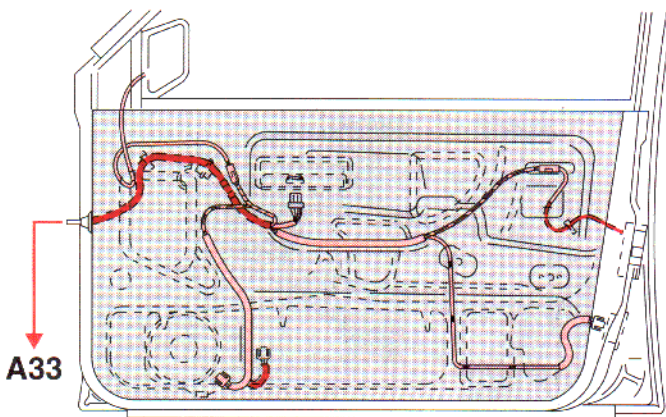
Left rear door cable harness



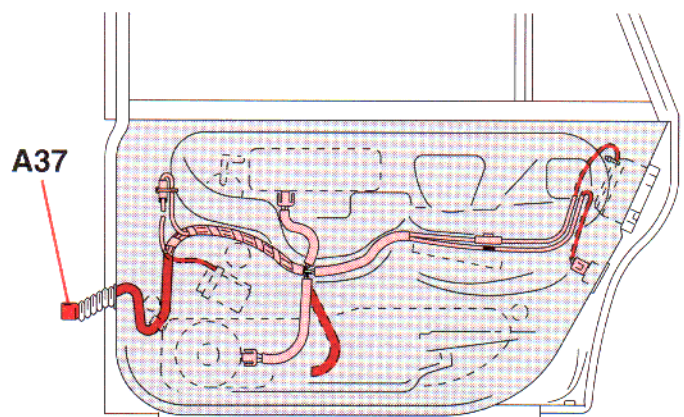
Left front door (driver door) cable harness



Right front door cable harness



Right rear door cable harness



33/217 (In-car harness)

On/Off	Color	Remarks
11C/21:2 Fuse, in-car	Y-GR	
2/5:4 Seatbelt reminder/key warning relay	Y-GR	
2/15:2 Relay, exhaust temperature sensor	Y-GR	
2/44:1 Relay rear window/door mirror heating	Y-GR	
3/9:4 Stop (Brake) light switch	Y-GR	
5/1A:7 Combined instrument (via multi-connector A1/E:4 at left A-post)	Y-GR	
7/1:11 Bulb failure warning sensor, rear (via connector A16:4 In-car harness - rear harness)	Y-GR	Only USA/CDN
7/1:8 Bulb failure warning sensor, rear D5:10 Towing hitch connector (via connector A16:4 In-car harness - rear harness)	Y-GR Y-GR	Only EU/OS

33/218 (In-car harness)

On/Off	Color	Remarks
11C/6:2 Fuse, in-car	Y	
2/4:5 Windshield wiper intermittent relay	Y	
3/12:5 Switch, windshield wipe/wash	Y	
6/1:1 Windshield wiper motor	Y	
34/42:14 Connector: terminal block in relay/fusebox engine compartment (via multi-connector A1/A:23 at left A-post)	Y	

33/219 (In-car harness)

On/Off	Color	Remarks
11C/13:2 Fuse, in-car	GN-R	
4/19:5 Remote control module, central lock/anti-theft alarm	GN-R	
10/30:1 Door edge light, driver door (via connector A32:1 In-car harness - driver door harness)	GN-R	
10/31:1 Door edge light passenger side front (via connector A33:1 In-car harness - front passenger door harness)	GN-R	
10/32:1 Warning lamp, left rear door (via connector A32:1 In-car harness - driver door harness) och connector A36:3 In-car harness - left rear door harness)	GN-R	
10/33:1 Warning lamp, right rear door (via connector A33:1 In-car harness - front passenger door harness) and connector A37:3 In-car harness - right rear door harness)	GN-R	
10/114:1 Vanity mirror lighting, left side	GN-R	
10/115:1 Vanity mirror lighting, right side	GN-R	
A31:4 Connector (In-car harness - interior lighting harness)	GN-R	

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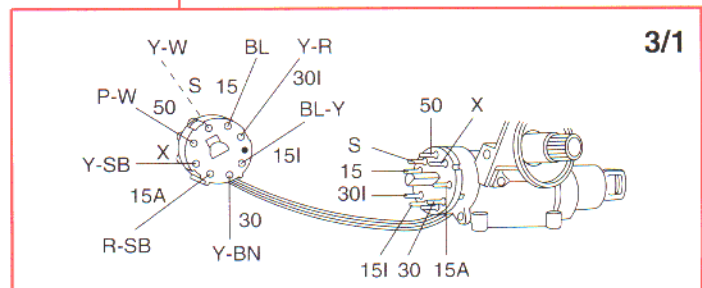
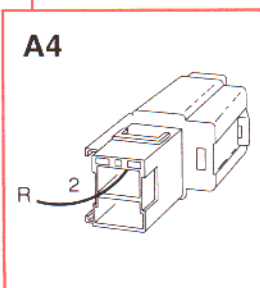
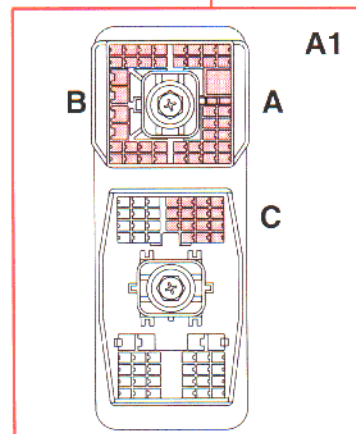
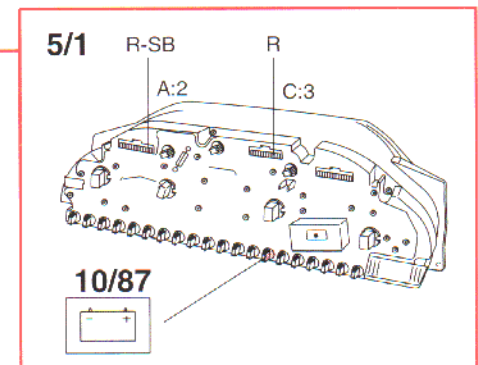
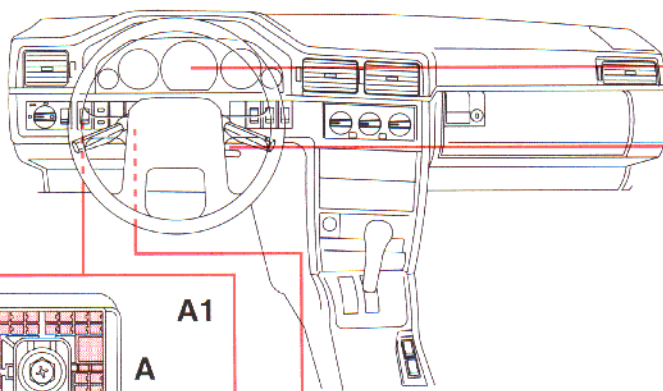
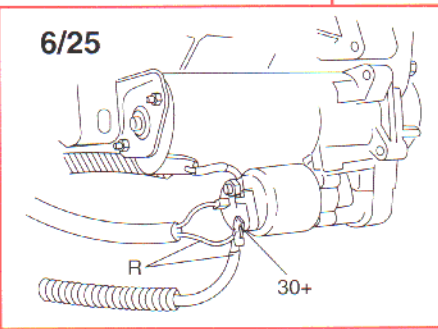
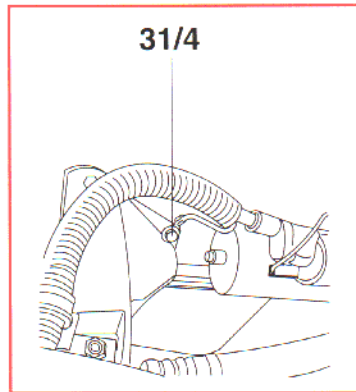
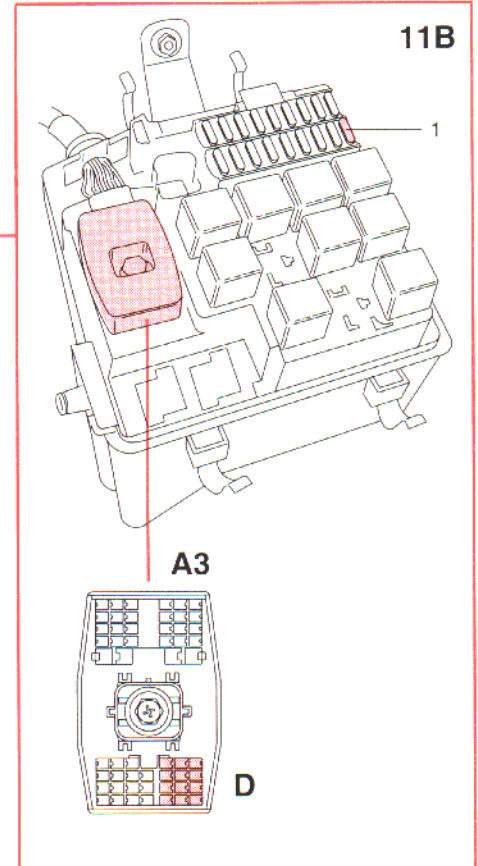
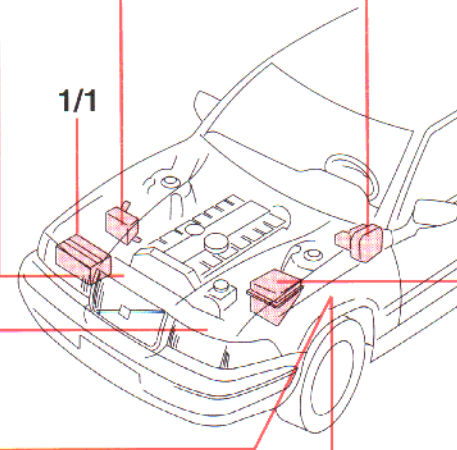
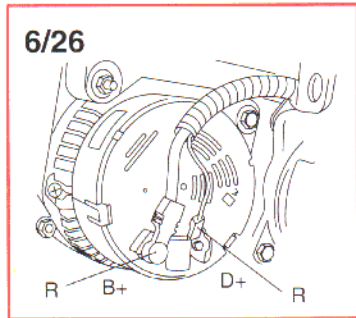
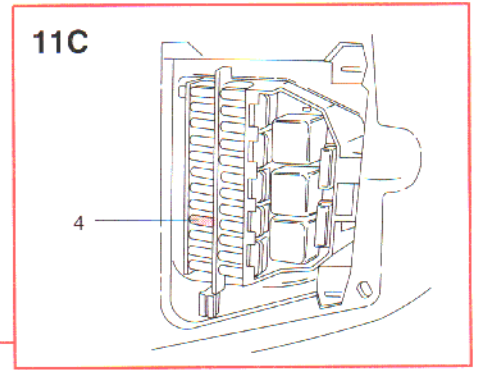
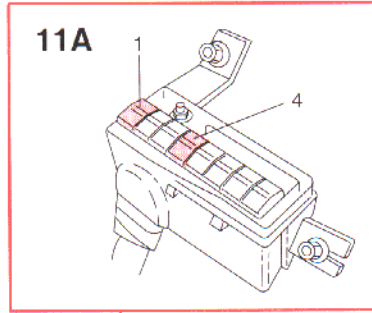
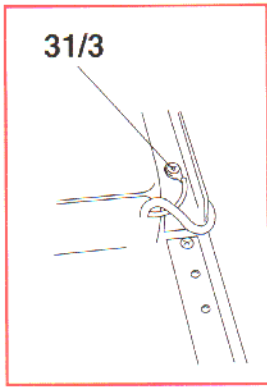
Pos.	ON/OFF	Color
1	50+ supply for Starter motor solenoid Manual transmission AW30-40/43 via Park/Neutral Position Switch PNP, 3/40	BL (BL-P) BL BL-P
2	Generator D+	R
3	Knock sensor (KS), rear	BN-OR
4	Knock sensor (KS), rear	GN-GR
5	Solenoid coupling A/C	GN-Y
6		
7		
8	Temperature sensor, EGR	VO-W
9	Coolant temperature sensor, connection 2 (-)	BN-P
10	Coolant temperature sensor, connection 1 (+)	Y-W
11	Oil pressure sensor (+)	SB
12	Temperature sensor, EGR	GN-GR

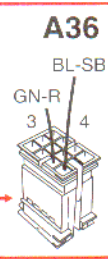
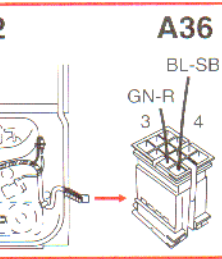
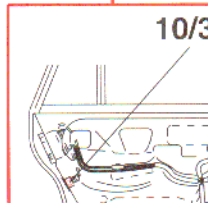
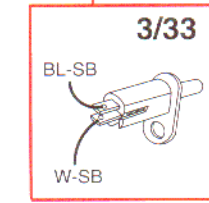
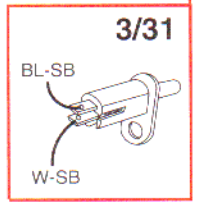
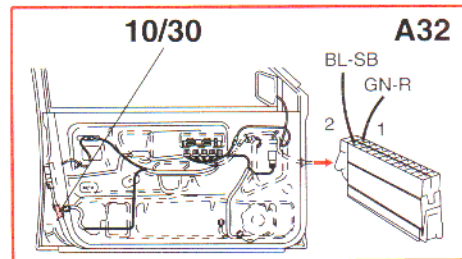
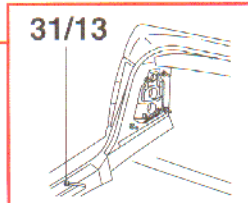
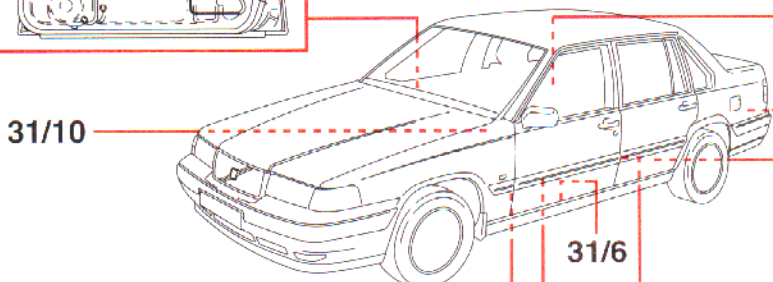
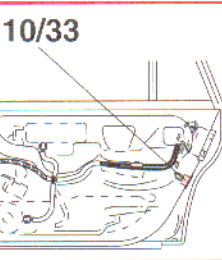
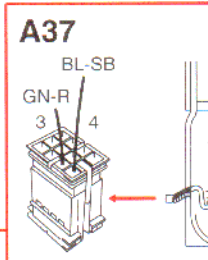
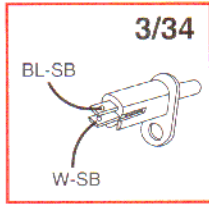
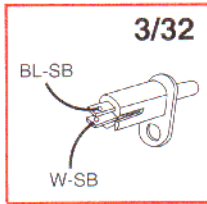
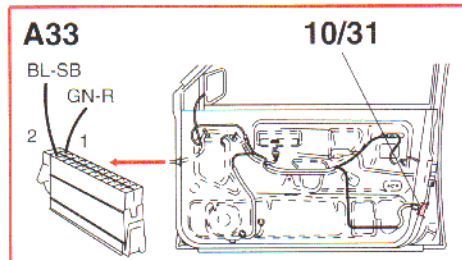
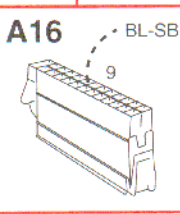
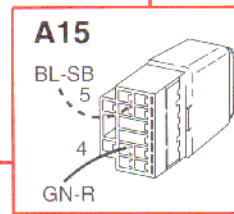
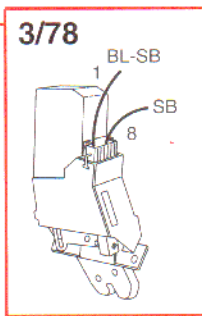
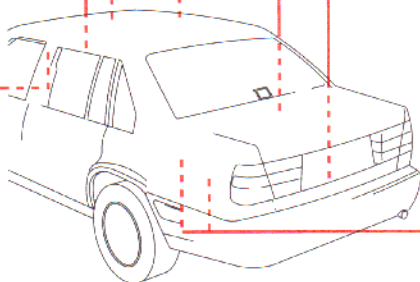
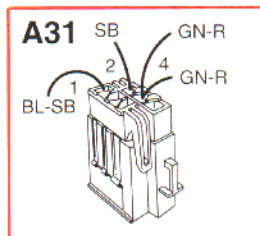
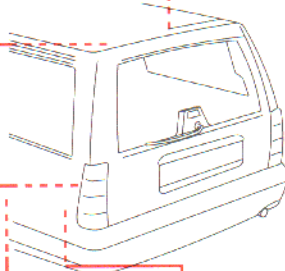
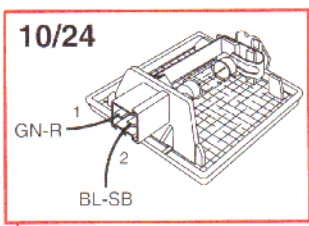
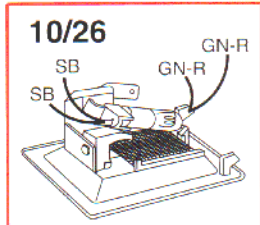
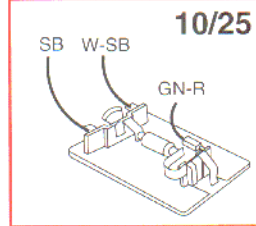
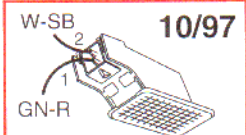
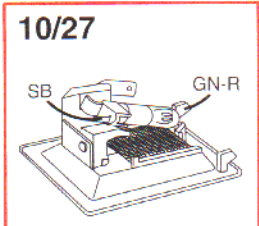
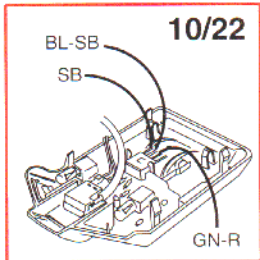
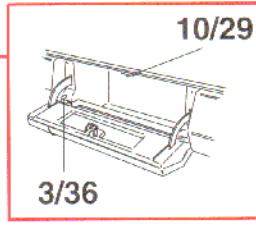
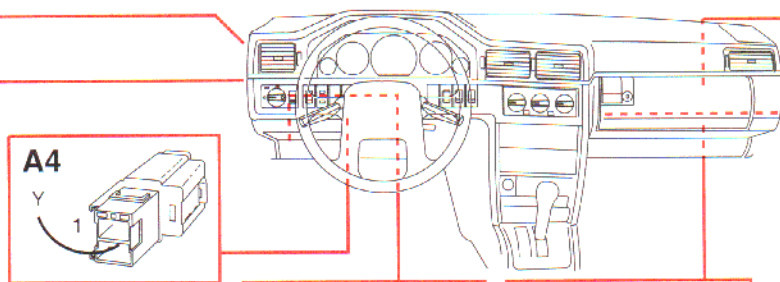
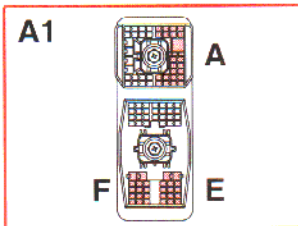
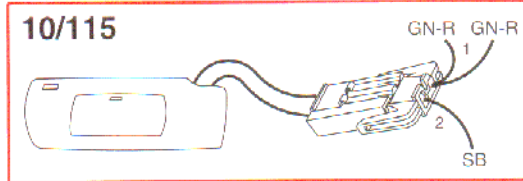
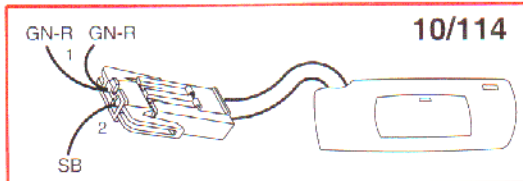
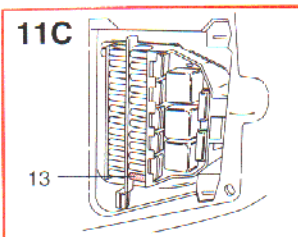
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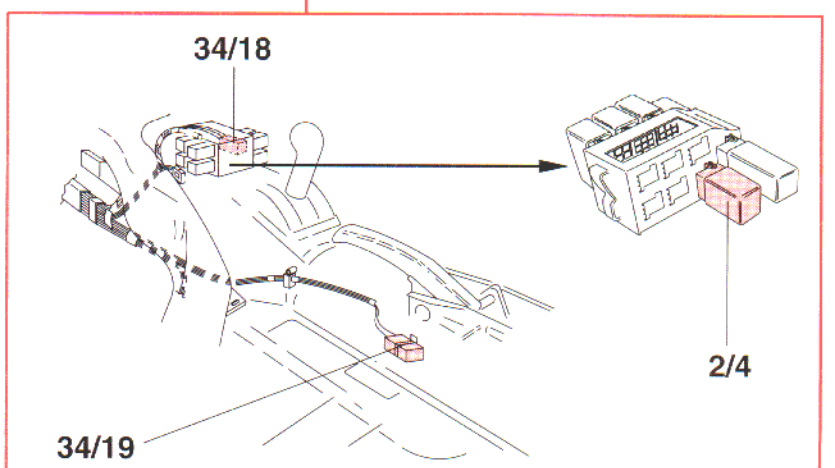
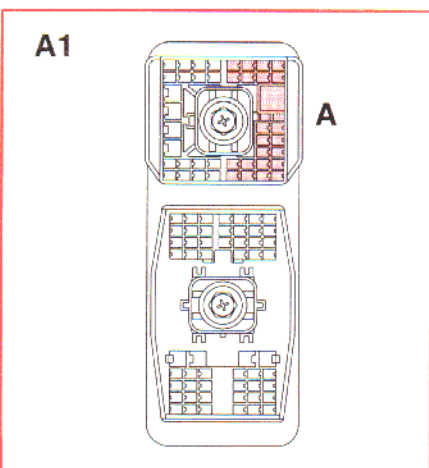
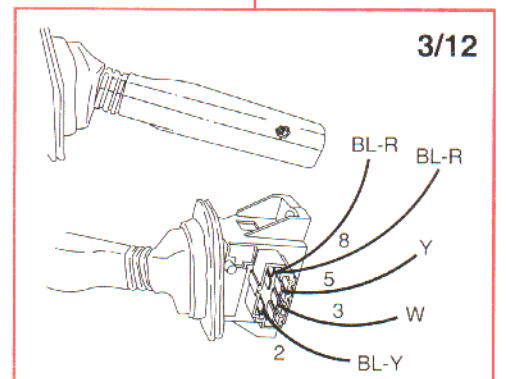
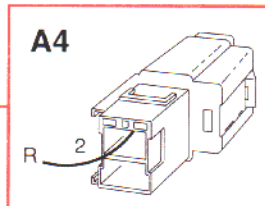
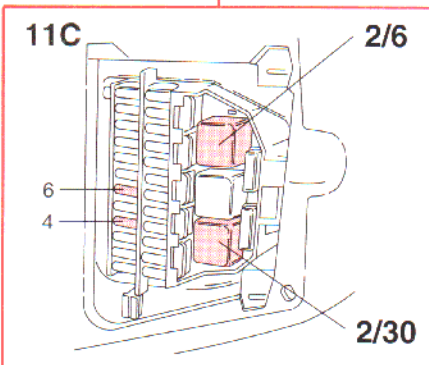
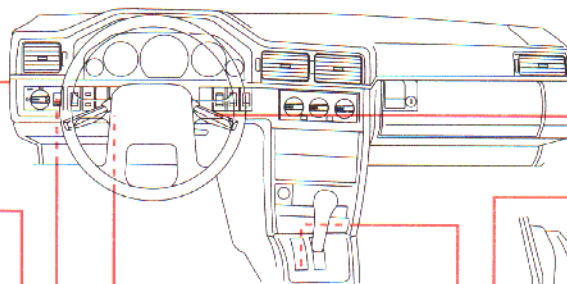
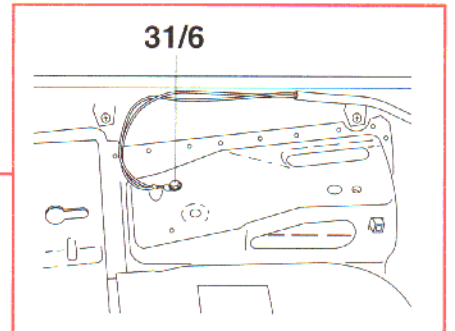
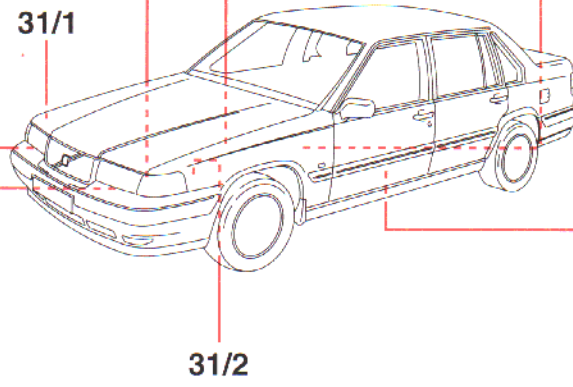
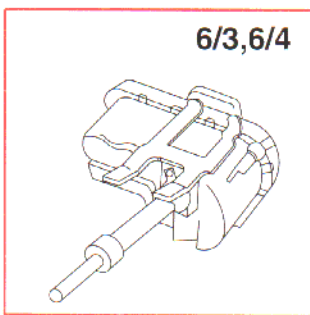
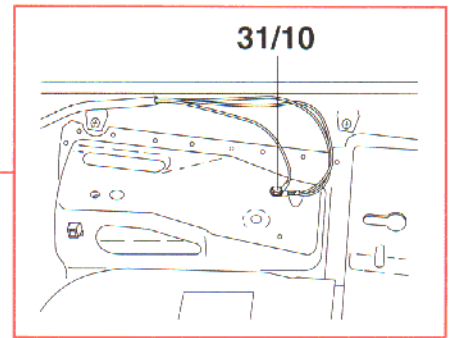
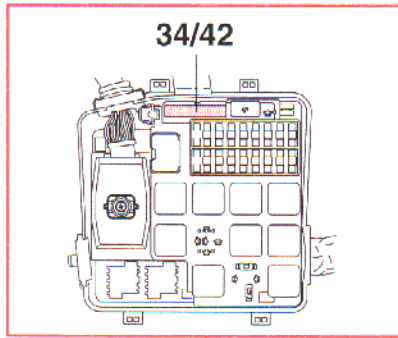
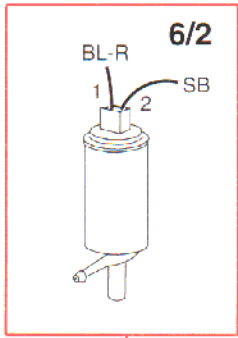
Pos.	ON/OFF	Color
1	+ supply for ignition coil	GN-R
2	Power stage Motronic 4.3 MFI 1 connection 2	R-SB
3	Power stage Motronic 4.3 MFI 1 connection 5	BL-GN
4	Power stage Motronic 4.3 MFI 1 connection 7	BL-R
5	Engine temperature sensor, connection 2	GR-W
6		
7	Power stage Motronic 4.3 MFI 2 connection 2	BL-W
8	Power stage Motronic 4.3 MFI 2 connection 5	BL-BN
9	Power stage Motronic 4.3 MFI 2 connection 7	W
10	Engine temperature sensor, connection 1	GN-GR
11	IAC idling valve connection 3	OR-SB
12	IAC idling valve connection 1	GR-R
13	Body connection, ground signal	BN
14	15+ supply for injection valves and IAC idling valve	GN

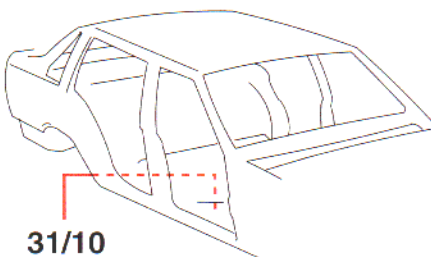
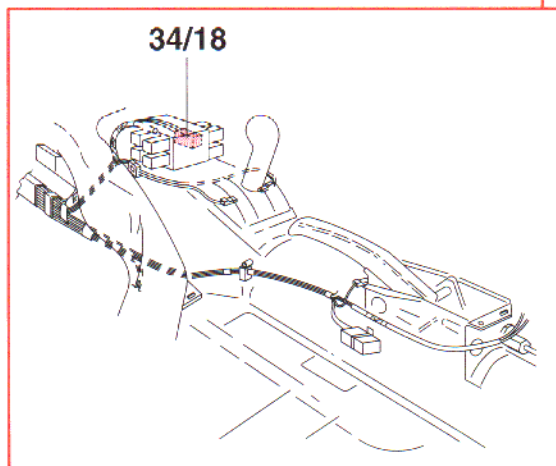
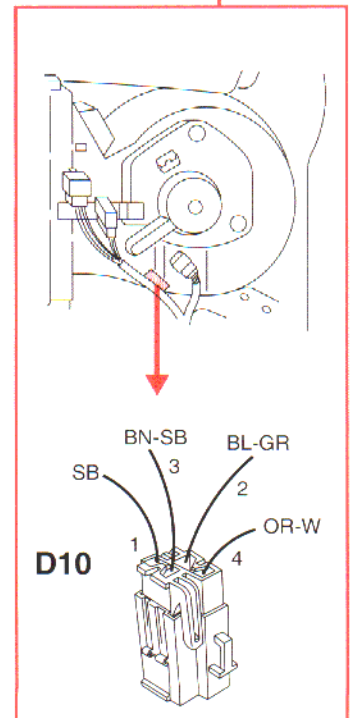
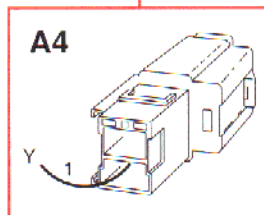
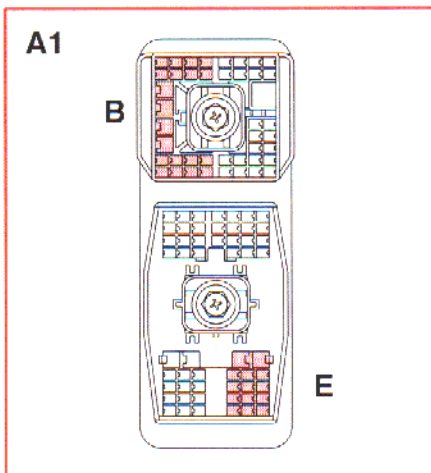
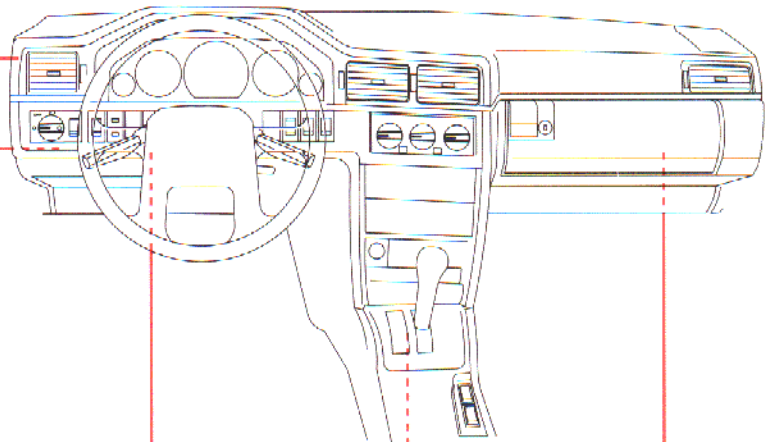
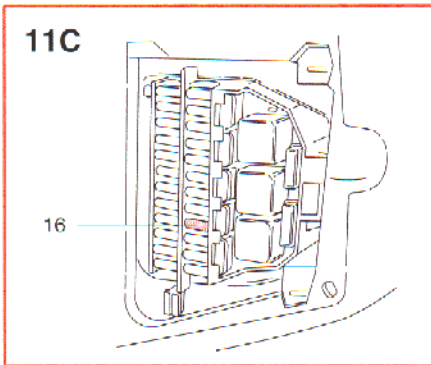
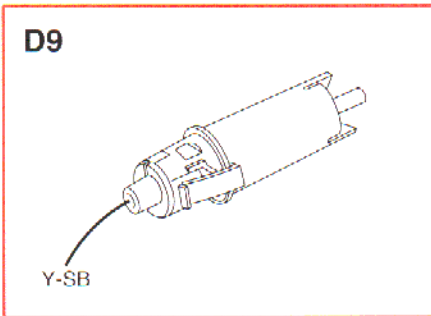
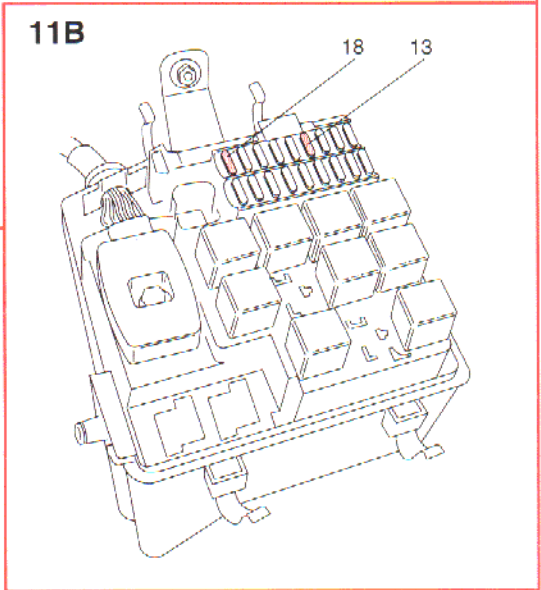
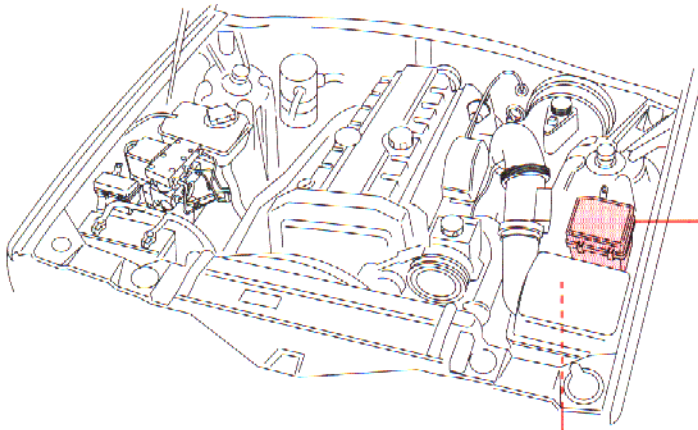
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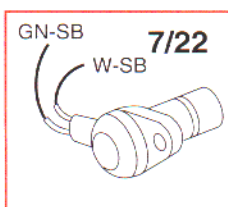
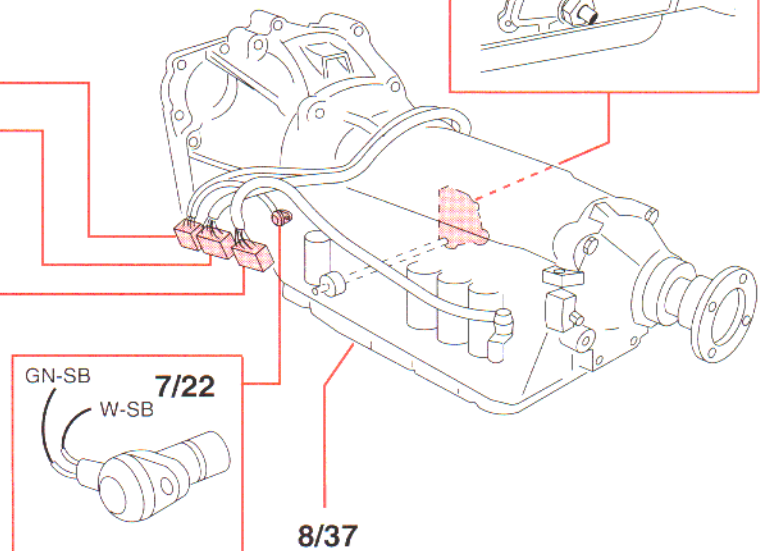
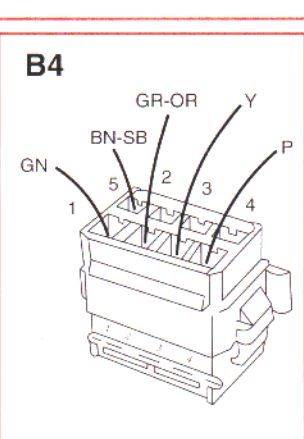
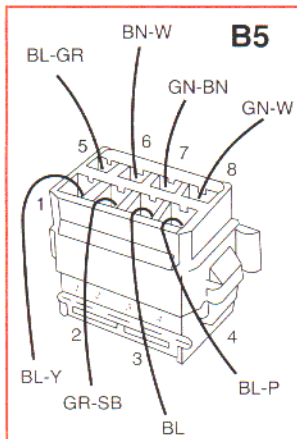
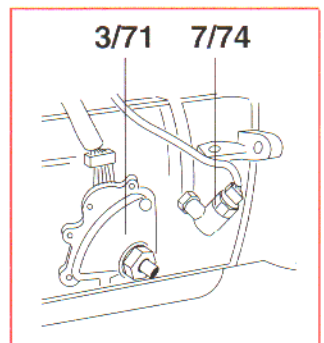
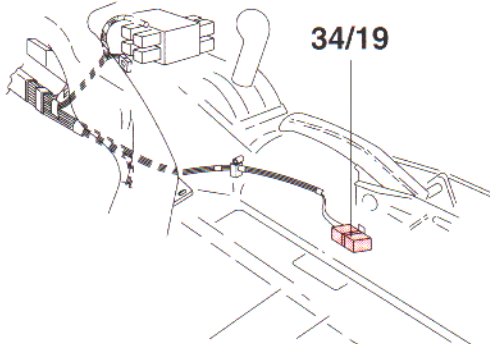
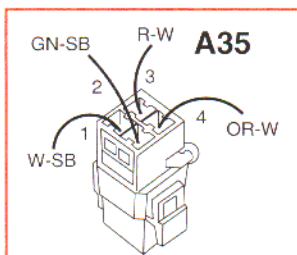
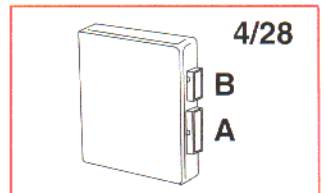
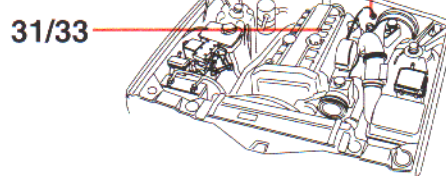
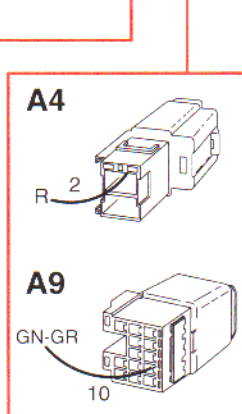
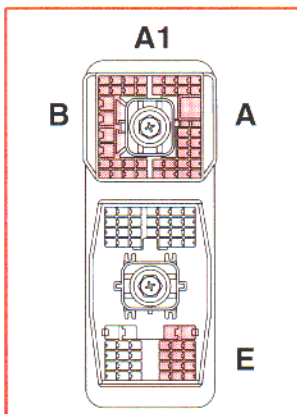
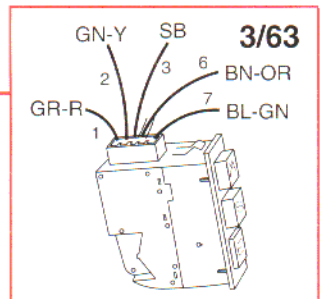
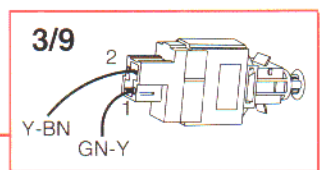
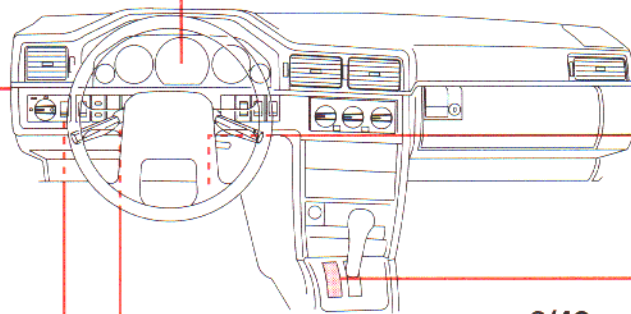
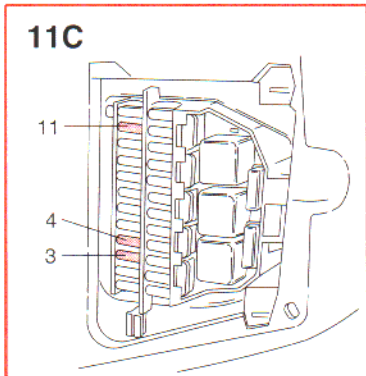
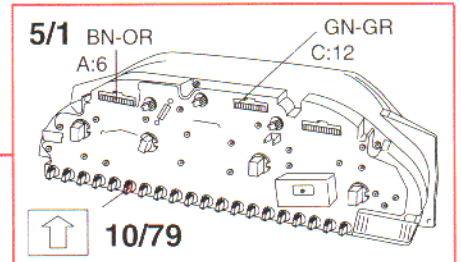
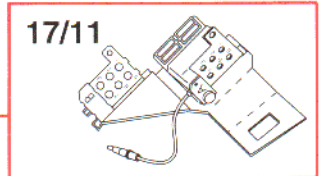
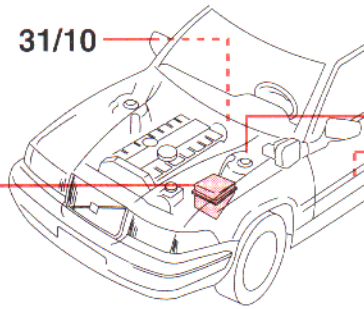
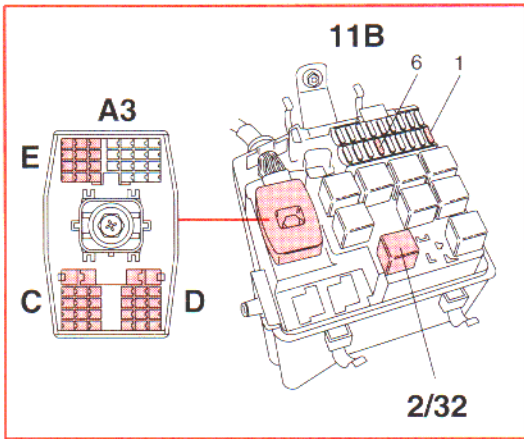
Pos.	ON/OFF	Color
1	Control module Motronic MFI, connection 24, ground	SB
2	Heated oxygen sensor (HO2S) (Lambdasond), connection 4	GN
3	Knock sensor (KS), front	GR
4	Knock sensor (KS), front	GN-GR
5		
6		
7	Heated oxygen sensor (HO2S) (Lambdasond)	BN
8	Throttle position (TP) sensor connection 1	GN-GR
9	Heated oxygen sensor (HO2S) (Lambdasond), connection 1	BL-OR
10	Control module, Motronic 4.3 MFI connection 17, injection signal (-)	BN-GR
11	Throttle position (TP) sensor connection 3	Y-SB
12	Throttle position (TP) sensor connection 2	BL-SB
13		
14	Control module, Motronic 4.3 MFI connection 16, injection signal (-)	P-W

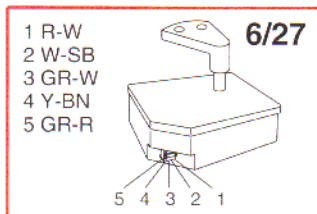
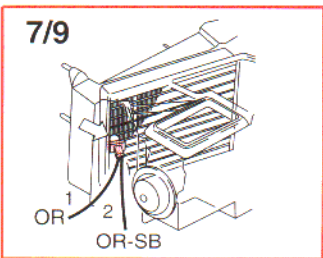
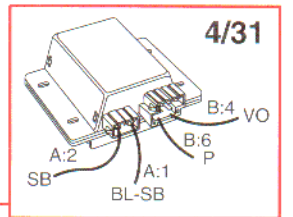
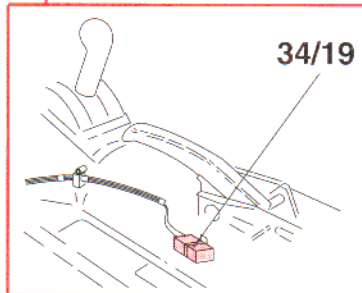
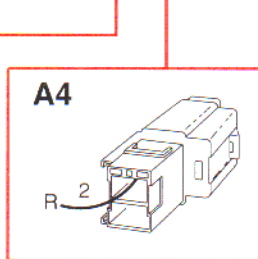
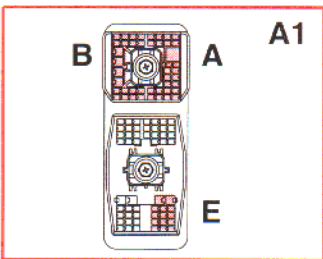
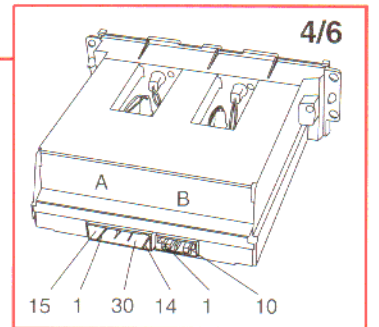
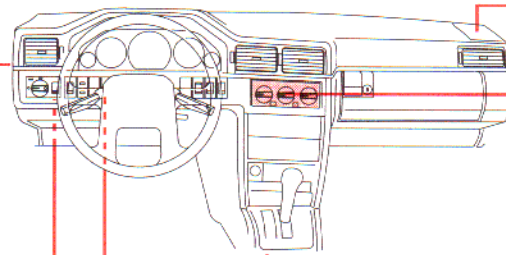
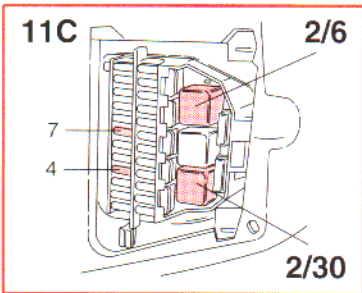
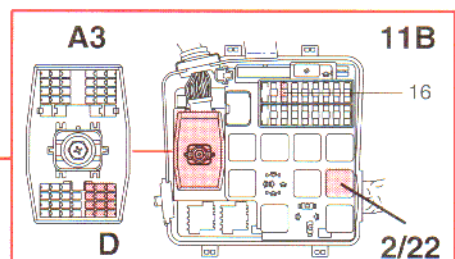
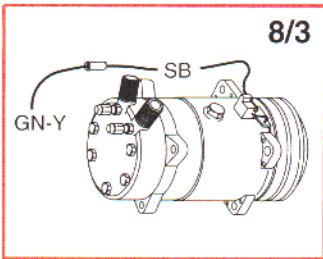
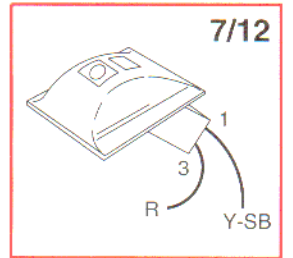
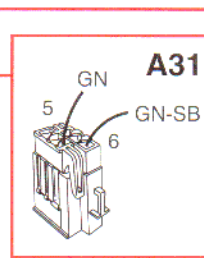
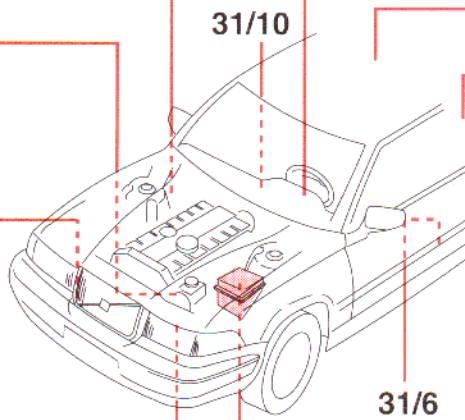
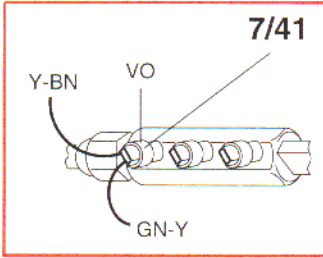
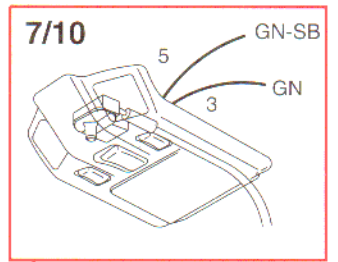
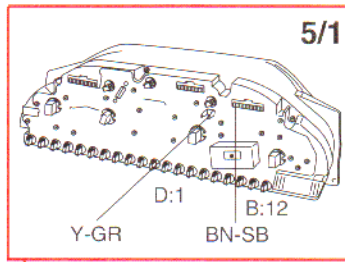
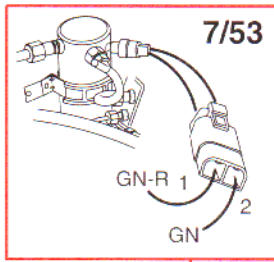
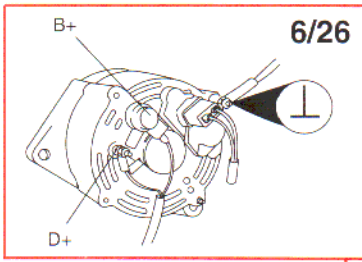












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