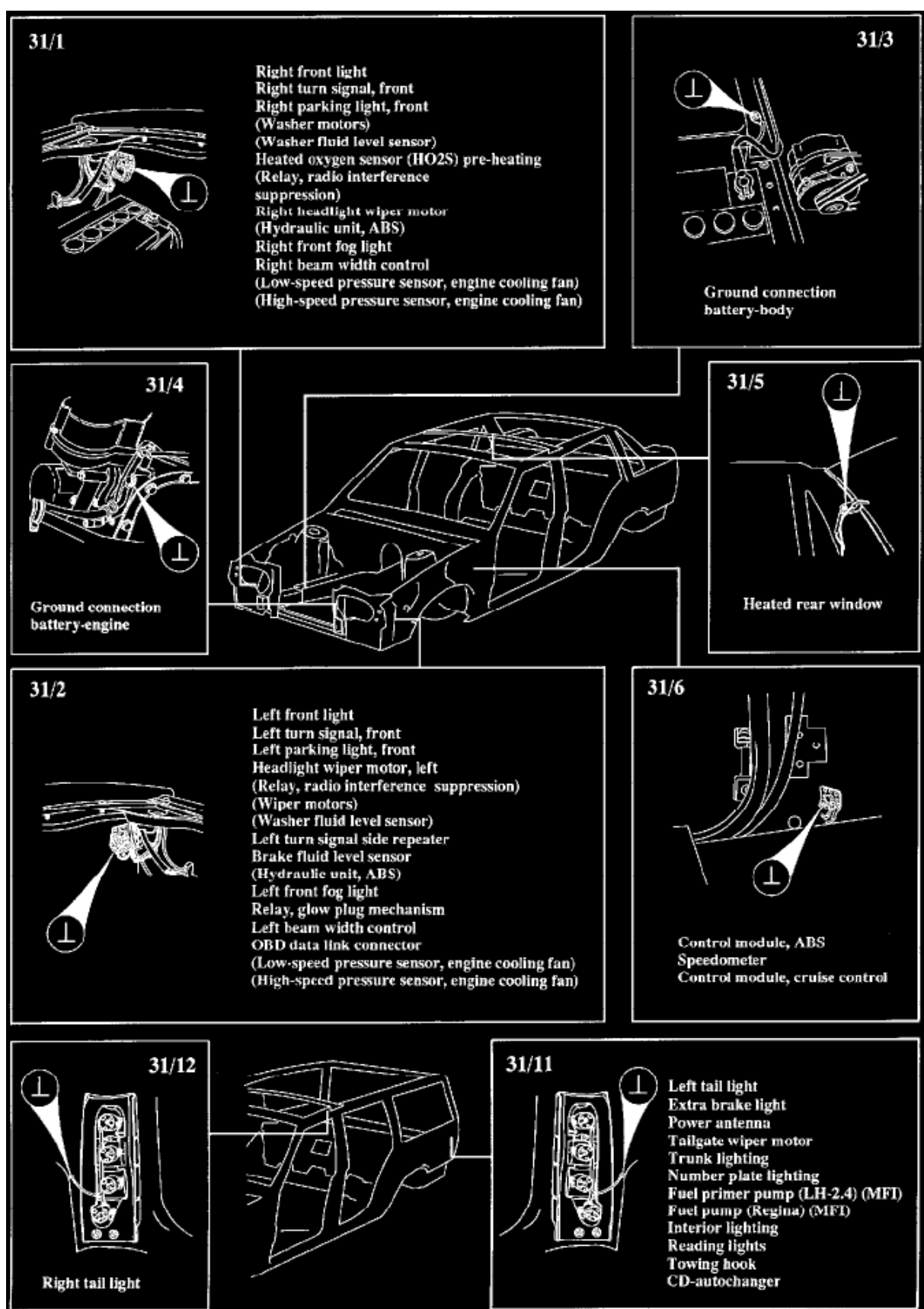


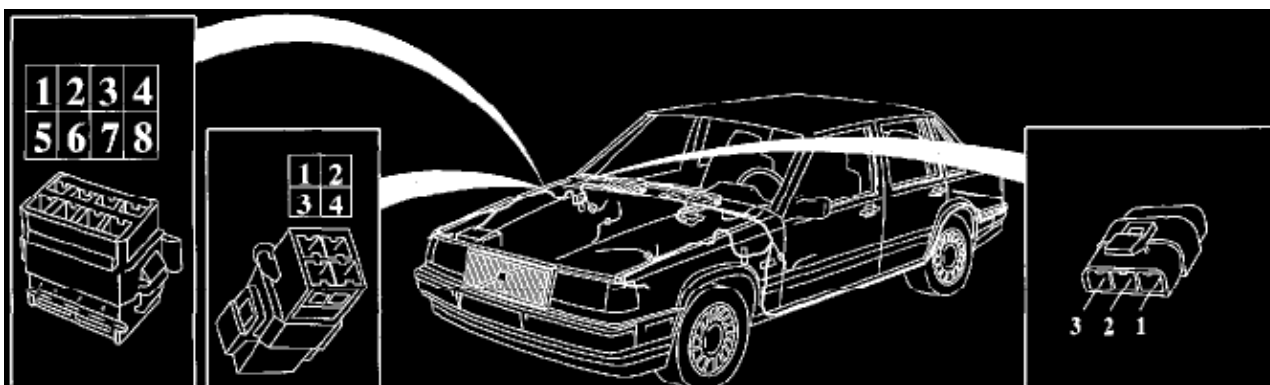
Connectors For Doors





Ground Connections





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

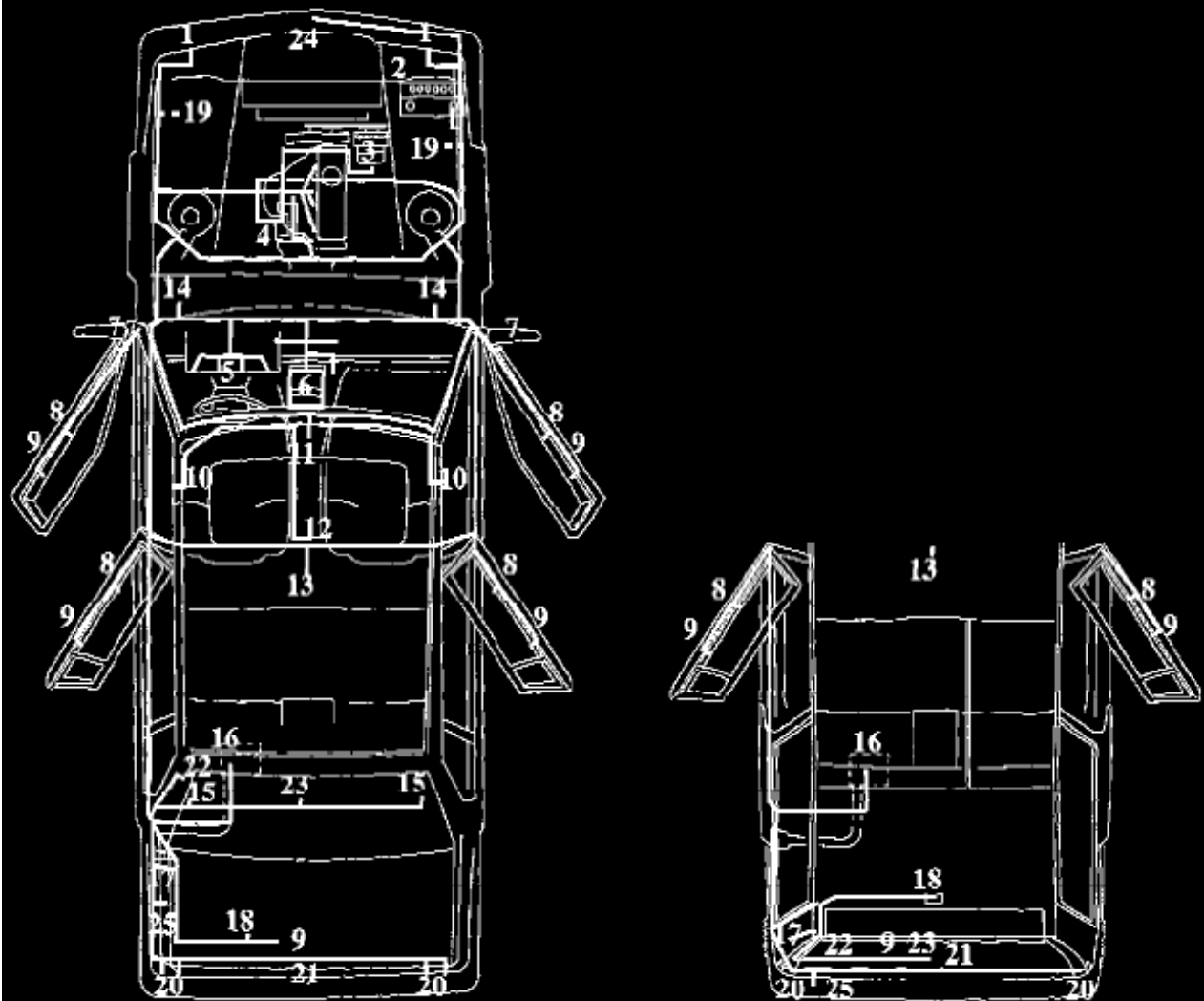
1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



## Cable routing

The routing of the main cables is shown in the illustration.

- |    |                              |    |                                   |
|----|------------------------------|----|-----------------------------------|
| 1  | Front lights                 | 13 | Interior lighting                 |
| 2  | Battery                      | 14 | Loudspeakers, instrument panel    |
| 3  | Generator                    | 15 | Loudspeakers, rear parcel shelf   |
| 4  | Starter motor                | 16 | Fuel gauge                        |
| 5  | Combined instrument          | 17 | Power antenna                     |
| 6  | Electrical distribution unit | 18 | Trunk lighting                    |
| 7  | Power door mirrors           | 19 | ABS hydraulic unit                |
| 8  | Power windows                | 20 | Tail lights                       |
| 9  | Central locking              | 21 | Number plate lighting             |
| 10 | Control modules, power seats | 22 | Heated rear window                |
| 11 | Motor, power sunroof         | 23 | Extra brake light                 |
| 12 | Ashtray lighting             | 24 | Engine cooling fan                |
|    |                              | 25 | Pre-routed wiring for towing hook |







### B 230 F, REX-I

### D24/D24TIC

#### Connector C50 (8-pin)

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

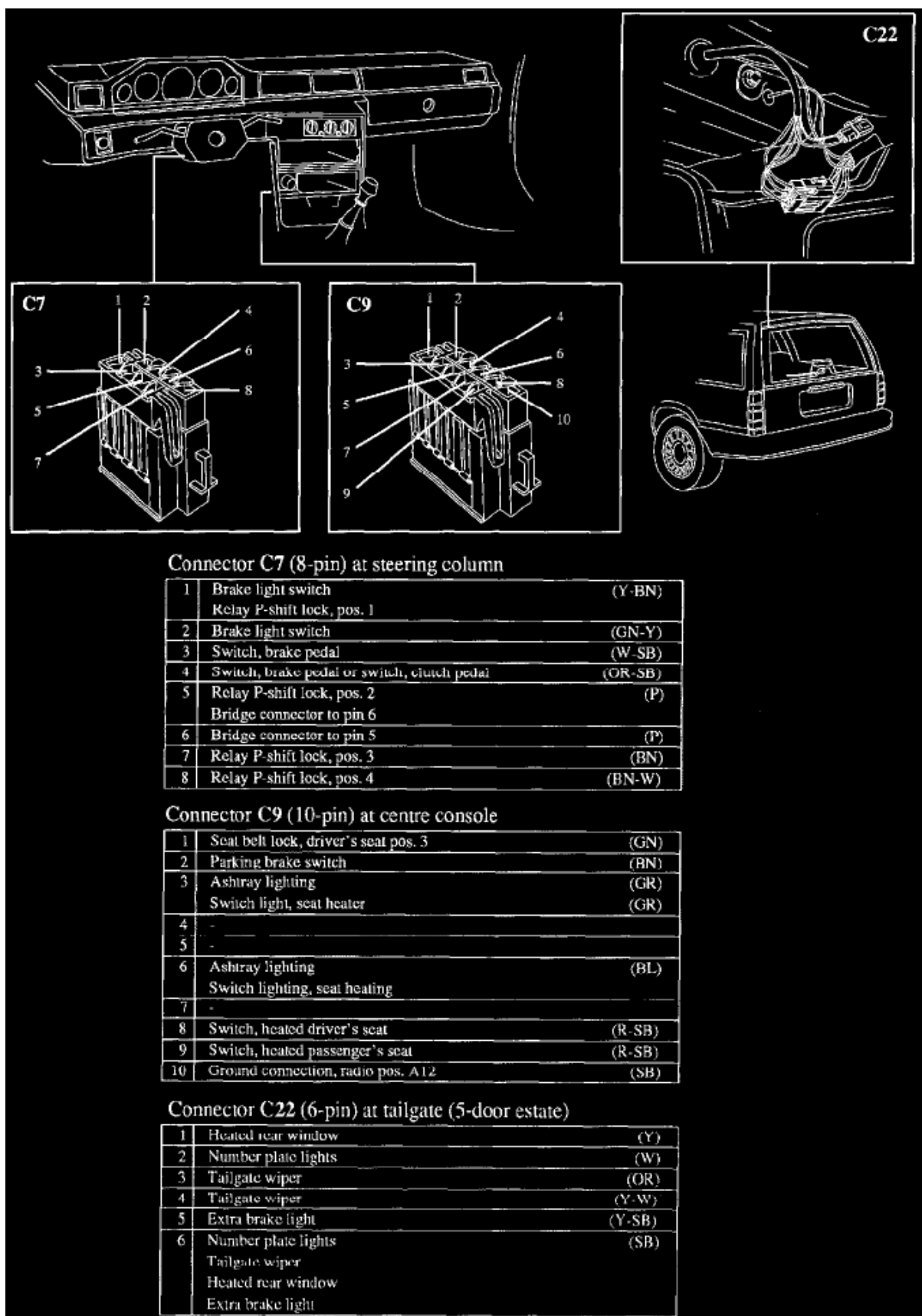
#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C117 (2-pin)

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	





Connectors



C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102 Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, at el. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components C/1 - D7

No. Component Name

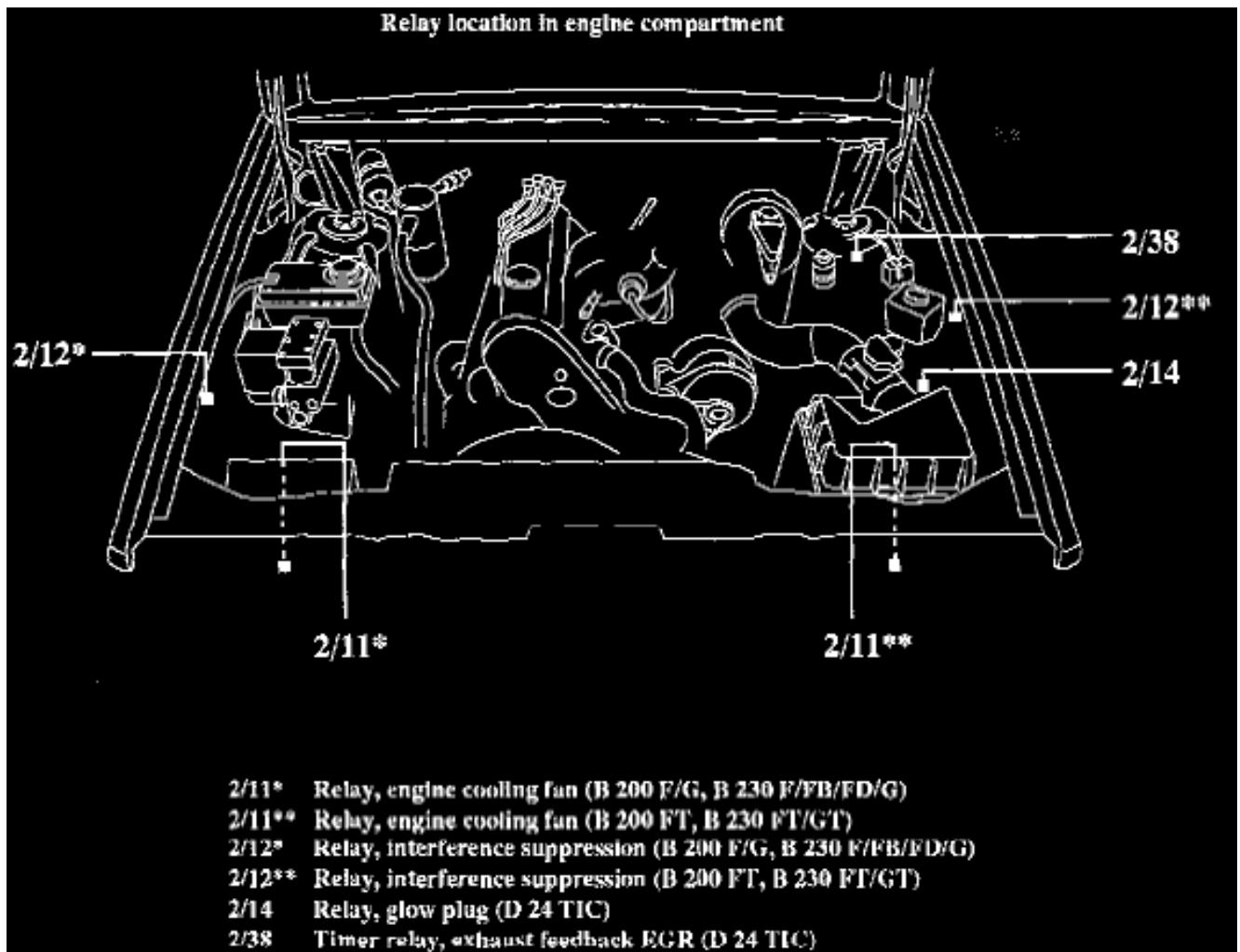
C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

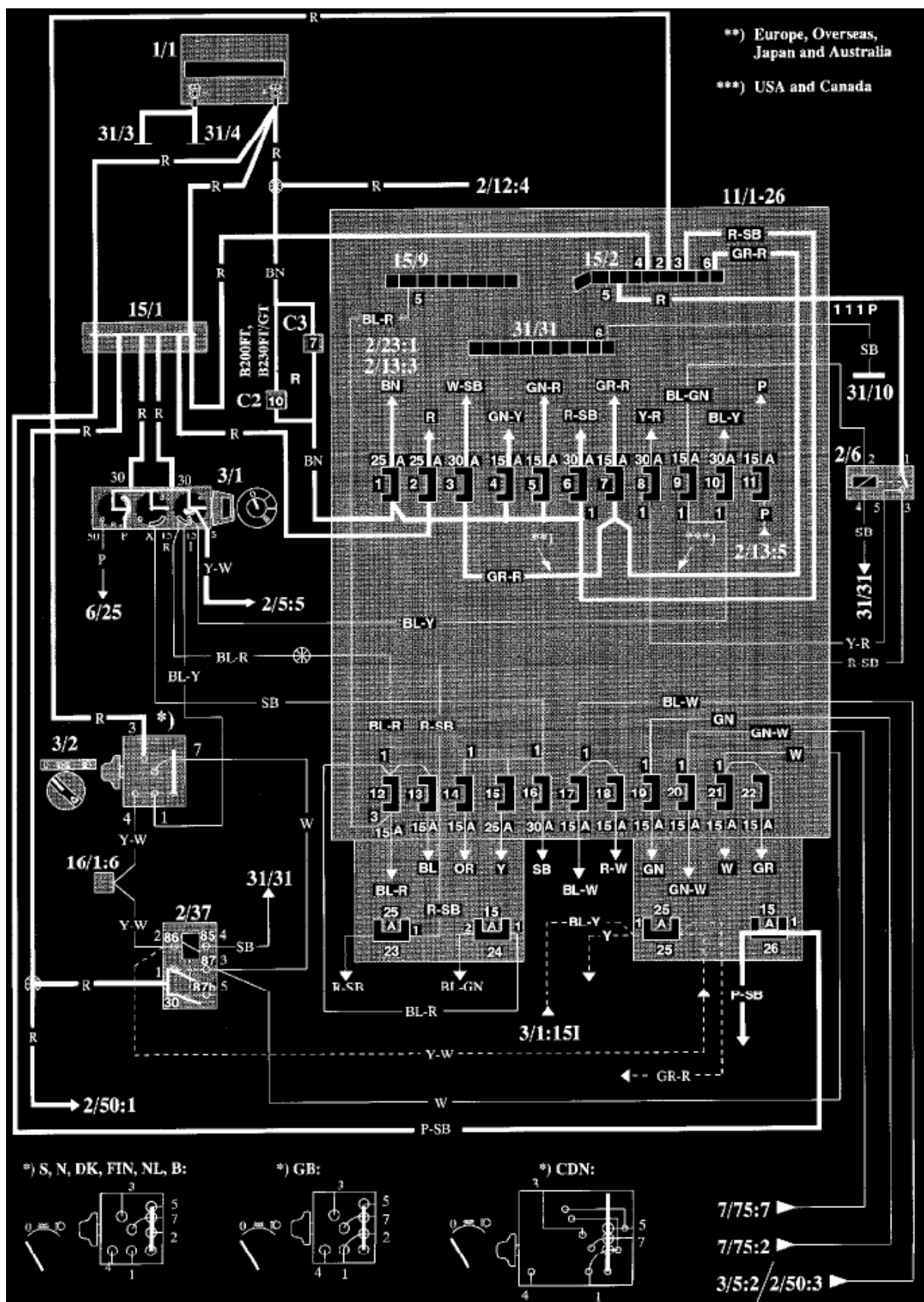
C3 Connector, 53-pin



Relays In Engine Compartment







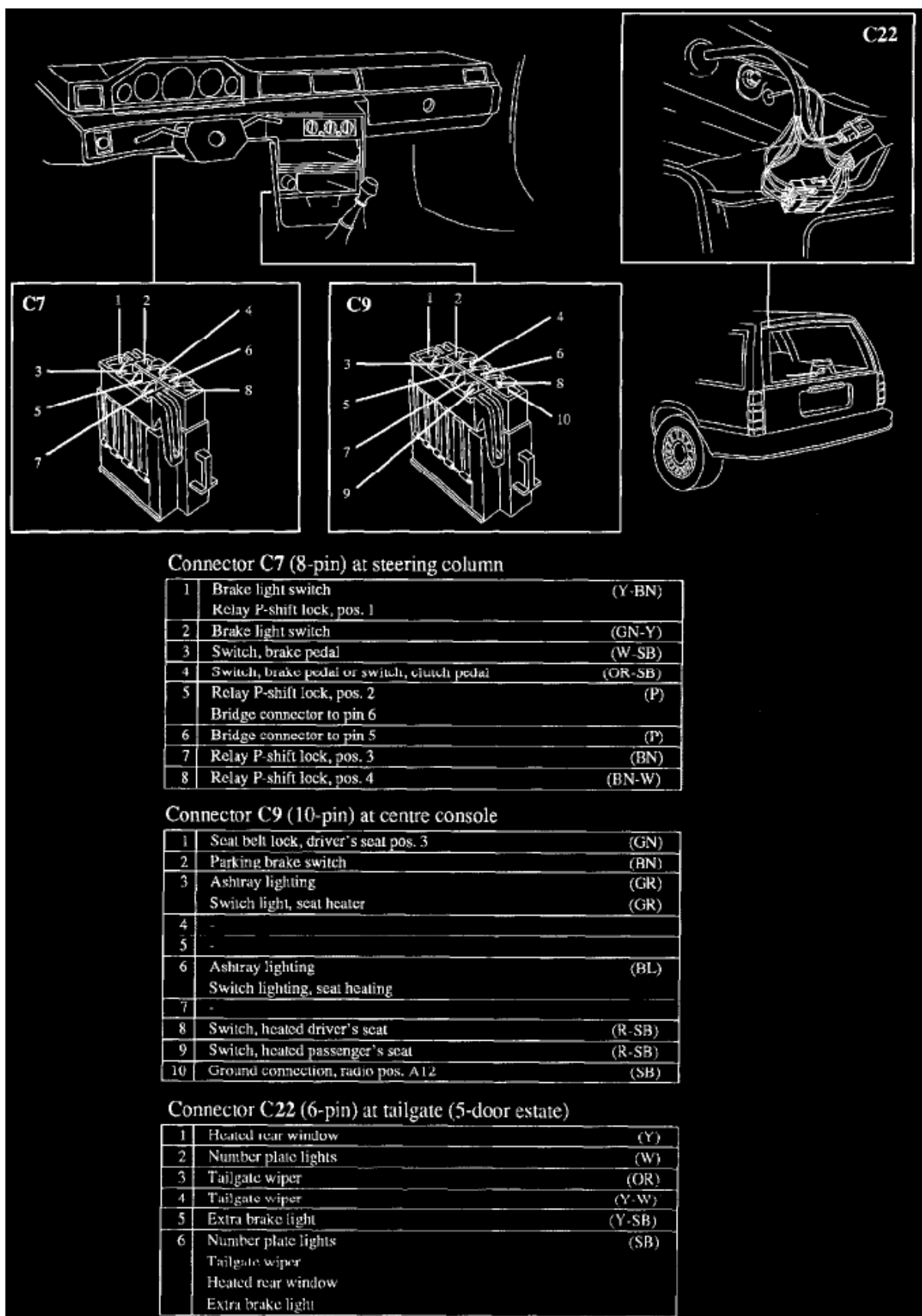
Electrical Distribution Unit, Fuses

Wiring Diagram

Component I.D. List

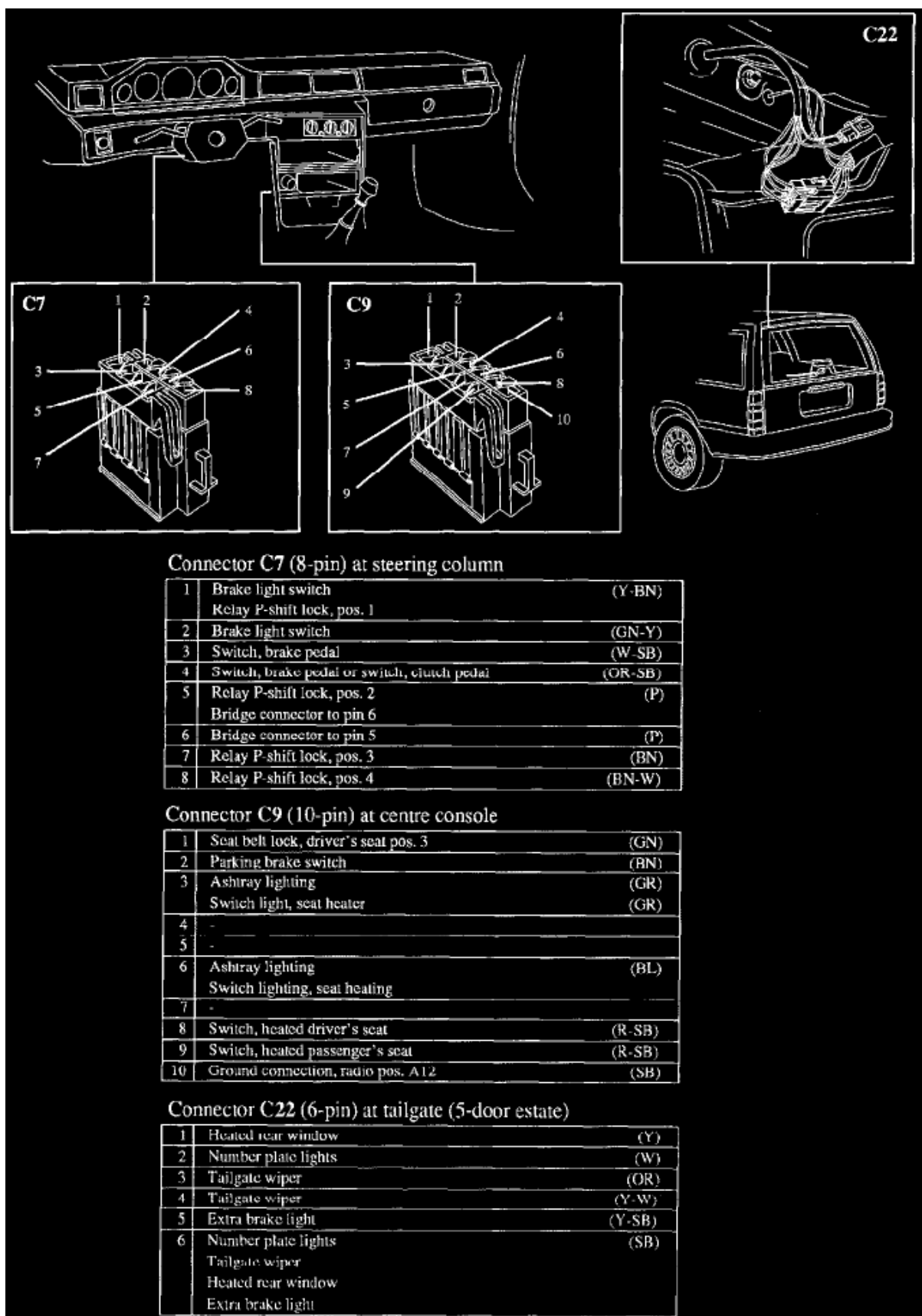
Fuse no. Function





Connectors





Connectors

## **Diagram Information and Instructions**



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 138.

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

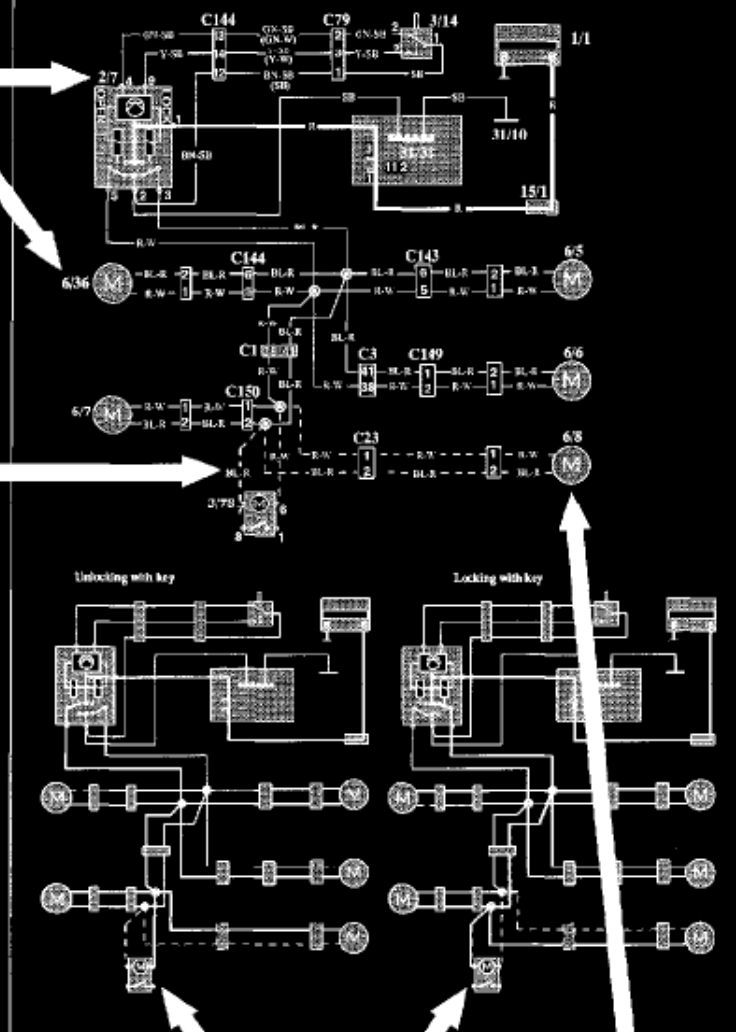
Each component has a component designation.  
At the end of the manual there is a component  
list where you can see what each component  
is called.

Wire colours are indicated with letters of the alphabet:

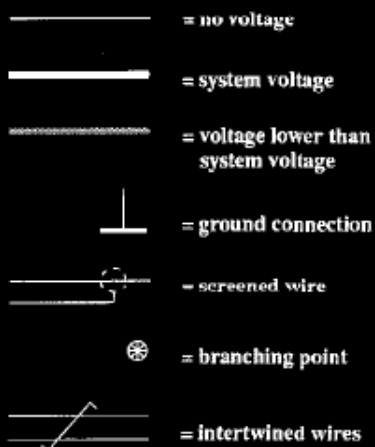
SB = Black	BN = Brown	GN = Green
GR = Grey	Y = Yellow	OR = Orange
W = White	P = Pink	VO = Purple
R = Red	BL = Blue	

BL-R is thus = Blue-red.

### Central locking



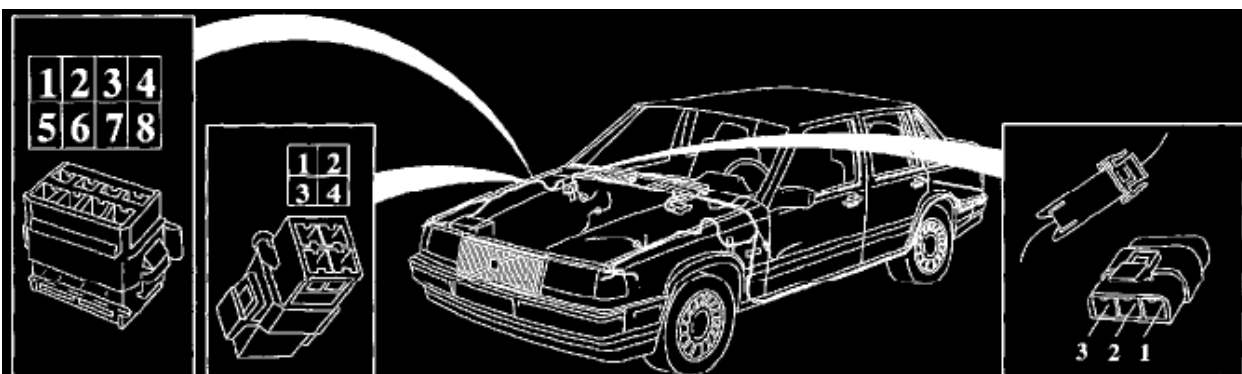
### Code to colours in the wiring diagram



Here you see the voltage under operational conditions.

## Diagram Information





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
---	---------------------------------	--------

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)



7/41 High-pressure sensor, A/C

7/43 Thermostat, driver's seat  
7/44 Thermostat, passenger's seat  
7/47 PTC-resistor, air pre-heating  
7/50 Pressure sensor, intake manifold  
7/52 Temperature sensor, intake air  
7/53 Low-pressure sensor, A/C  
7/69 Ambient temperature sensor  
7/75 Bulb malfunction indicator  
8/1 Operating solenoid, overdrive  
8/2 Solenoids, ECC  
8/3 Solenoid coupling, A/C  
8/5 Idle air control (IAC) valve  
8/6-9 Injection valves  
8/13 Fuel valve, diesel  
8/15 Hydraulic unit, ABS  
8/17 Converter, EGR  
8/24 3-way valve, EGR  
8/30 Steering wheel module, SRS (airbag)  
8/33 Igniter for left seat belt tensioner  
8/34 Igniter for right seat belt tensioner  
8/36 Solenoid P-shift lock  
8/42 Solenoid, pulsed secondary air injection (PAIR)  
9/1 Cigar lighter  
9/2 Heated rear window  
9/3 Heater element, driver's seat backrest  
9/4 Heater element, passenger's seat backrest  
9/5 Heater element, driver's seat cushion  
9/6 Heater element, passenger's seat cushion  
10/5 Left front foglight  
10/6 Right front foglight  
10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

10/54 Bulb, left rear turn signal

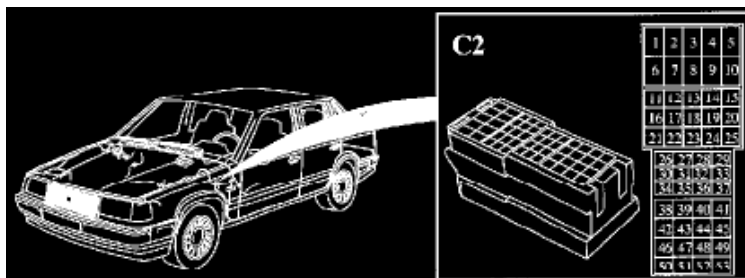


10/55 Left backup (reversing) light

10/64 Right high beam

10/65 Right extra high beam



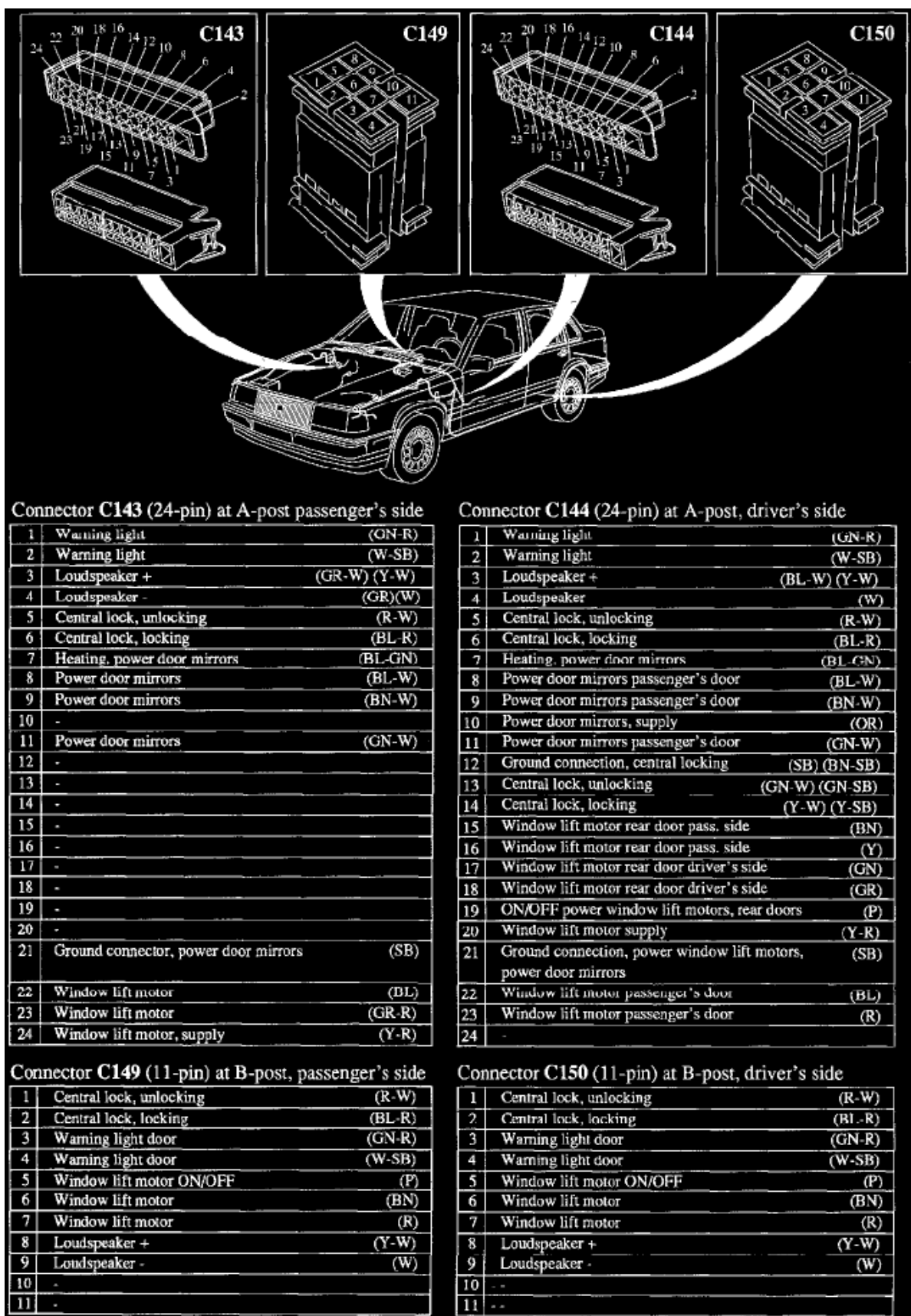


**Black connector C2 (53-pin)**  
Instrument panel harness - left wheel housing harness

B 230 F REX-I		
1	Starter motor 50	(BL-GN)
2	High beam left	(BL-W)
3	Low beam left	(GN)
4	Horn +	(Y)
Windshield wiper motor pos. 1		
Headlight wiper motor (not USA/CDN)		
5	Windshield wiper motor pos. 2	(GR)
6	Windshield wiper motor pos. 3	(GN-W)
7	Windshield wiper motor pos. 4	(OR)
8	Front foglights	(W-SB)
9	Control module REX-I (DI) pos. 5	(BN)
10	-	
11	On-board diagnostic (OBD) socket B pos. 5	(GR-OR)
12	On-board diagnostic (OBD) socket A pos. 5	(BL-P)
13	Turn signal, left	(GN)
14	Parking light, left	(W)
15	-	
16	Oil pressure sensor	(SB)
17	Horn -	(BL-SB)
18	Headlight wiper motor (not USA/CDN)	(BL-R)
Windshield washer motor		
19	Brake fluid level sensor	(VO)
20	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)
22	Generator D+	(R)
23	On-board diagnostic (OBD) socket B pos. 6	(BL-W)
24	Service socket	(P)
25	On-board diagnostic (OBD) socket A pos. 2	(GN-W)
26	Control module REX-I (DI) pos. 3	(BN-W)
27	Power amplifier/ignition coil REX-I (DI) pos. C	(R-W)
28	On-board diagnostic (OBD) socket A pos. 4	(BL)
Control module REX-I (DI) pos. 6		
Power amplifier/ignition coil REX-I (DI) pos. A		
29	Control module REX-I (DI) pos. 17	(Y-GR)
30	-	
31	-	
32	Washer fluid level sensor	(R-SB)
33	Washer motor, tailgate	(BL-Y)
34	Door switch	(BN-SB)
35	Door switch	(W-SB)
36	-	
37	-	
38	Ambient temperature sensor	(GN-Y)
39	Ambient temperature sensor	(GN-R)
40	Anti-theft alarm, connector D4 pos. 1	(GR-W)
41	Anti-theft alarm, connector D4 pos. 2	(BN-P)
42	Control module cruise control pos. 10	(BN-GR)
43	Control module cruise control pos. 2	(P-SB)
44	Control module cruise control pos. 7	(BN-OR)
45	Control module cruise control pos. 11	(BL-OR)
46	Control module cruise control pos. 6	(BL-GR)
47	Control module cruise control pos. 4	(OR-W)
48	Control module cruise control pos. 3	(OR-SB)
49	Control module cruise control pos. 13	(GN-OR)
50	-	
51	-	
52	-	
53	-	

Connector At Left A-post





Connectors For Doors





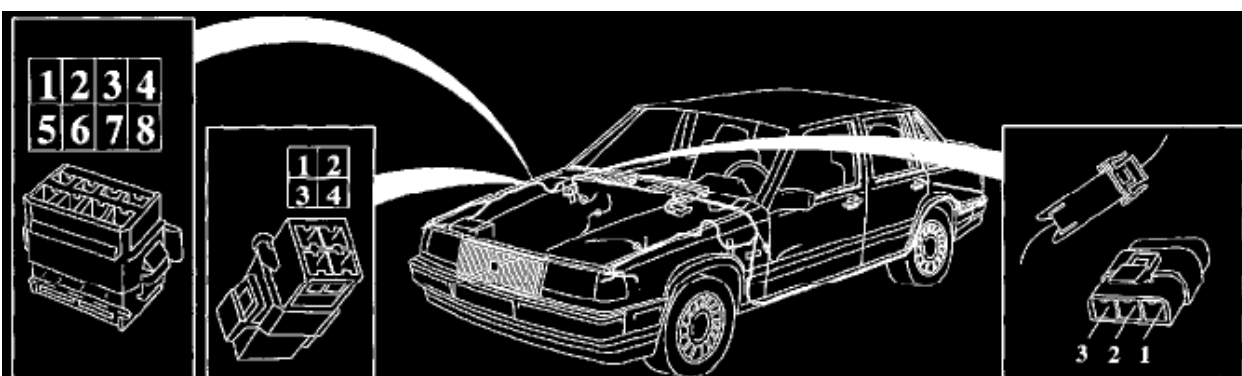
Wiring Diagram

Component I.D. List

Fuse no. Function







### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
---	---------------------------------	--------

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)



Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin

C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

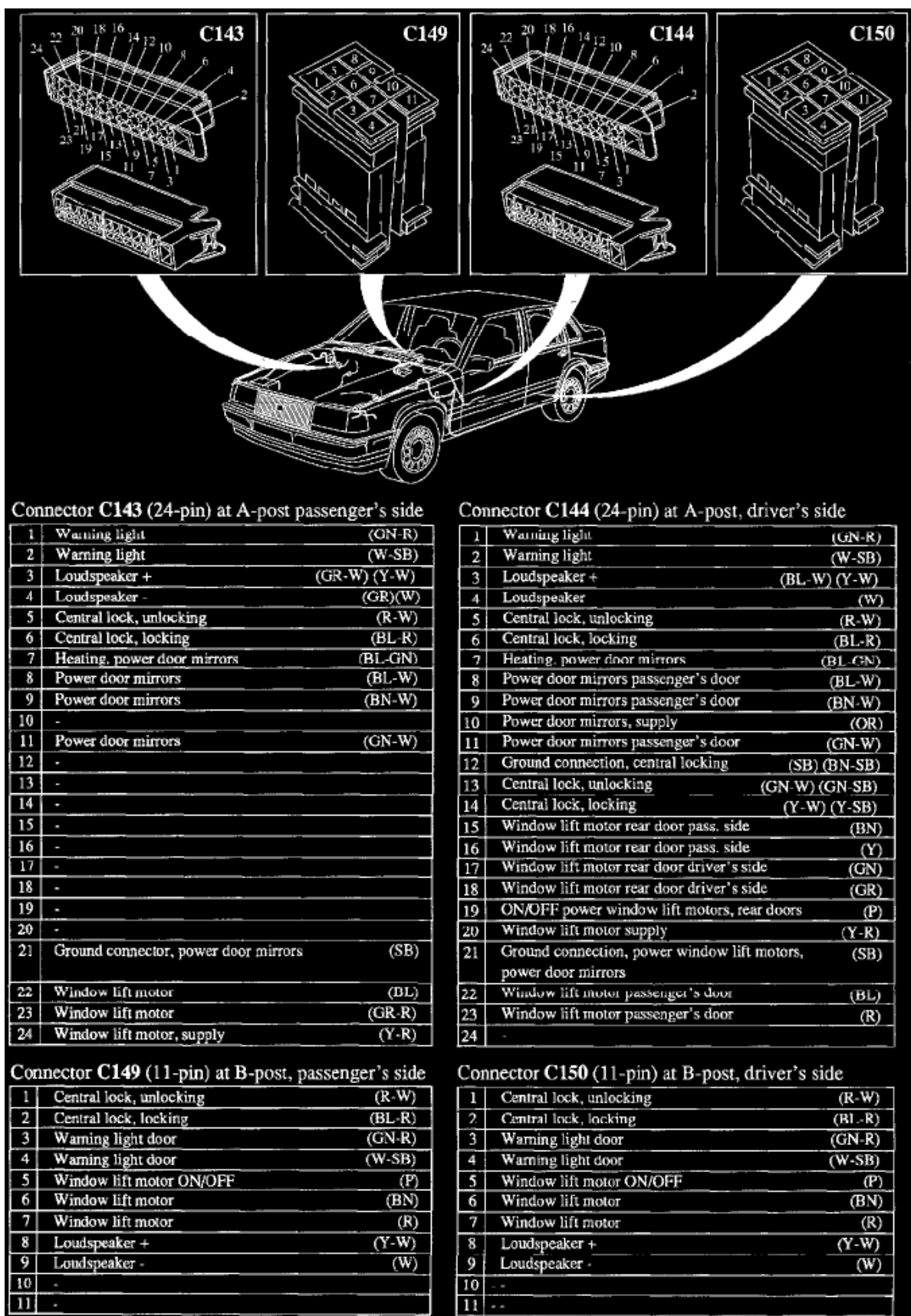
C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102  
Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at  
thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin

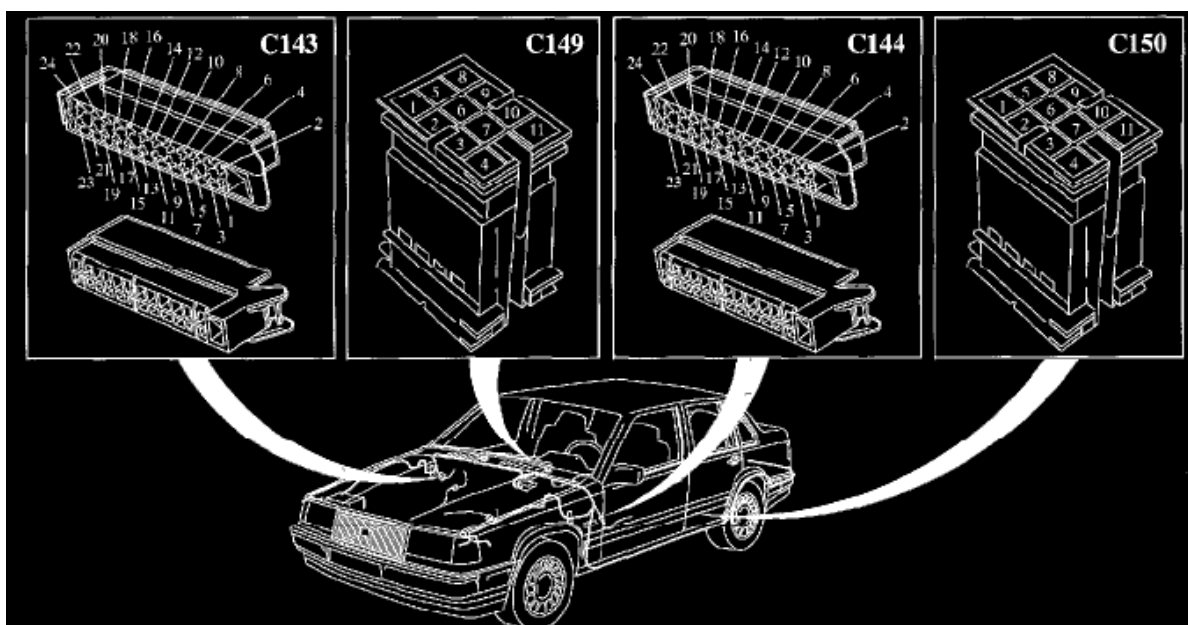




Connectors For Doors







Connector C143 (24-pin) at A-post passenger's side

1	Warning light	(GN-R)
2	Warning light	(W-SB)
3	Loudspeaker +	(GR-W) (Y-W)
4	Loudspeaker -	(GR)(W)
5	Central lock, unlocking	(R-W)
6	Central lock, locking	(BL-R)
7	Heating, power door mirrors	(BL-GN)
8	Power door mirrors	(BL-W)
9	Power door mirrors	(BN-W)
10	-	
11	Power door mirrors	(GN-W)
12	-	
13	-	
14	-	
15	-	
16	-	
17	-	
18	-	
19	-	
20	-	
21	Ground connector, power door mirrors	(SB)
22	Window lift motor	(DL)
23	Window lift motor	(GR-R)
24	Window lift motor, supply	(Y-R)

Connector C144 (24-pin) at A-post, driver's side

1	Warning light	(GN-R)
2	Warning light	(W-SB)
3	Loudspeaker +	(BL-W) (Y-W)
4	Loudspeaker -	(W)
5	Central lock, unlocking	(R-W)
6	Central lock, locking	(BL-R)
7	Heating, power door mirrors	(BL-GN)
8	Power door mirrors passenger's door	(BL-W)
9	Power door mirrors passenger's door	(BN-W)
10	Power door mirrors, supply	(OR)
11	Power door mirrors passenger's door	(GN-W)
12	Ground connection, central locking	(SB) (BN-SB)
13	Central lock, unlocking	(GN-W) (GN-SB)
14	Central lock, locking	(Y-W) (Y-SB)
15	Window lift motor rear door pass. side	(BN)
16	Window lift motor rear door pass. side	(Y)
17	Window lift motor rear door driver's side	(GN)
18	Window lift motor rear door driver's side	(GR)
19	ON/OFF power window lift motors, rear doors	(P)
20	Window lift motor supply	(Y-R)
21	Ground connection, power window lift motors, power door mirrors	(SB)
22	Window lift motor passenger's door	(BL)
23	Window lift motor passenger's door	(R)
24	-	

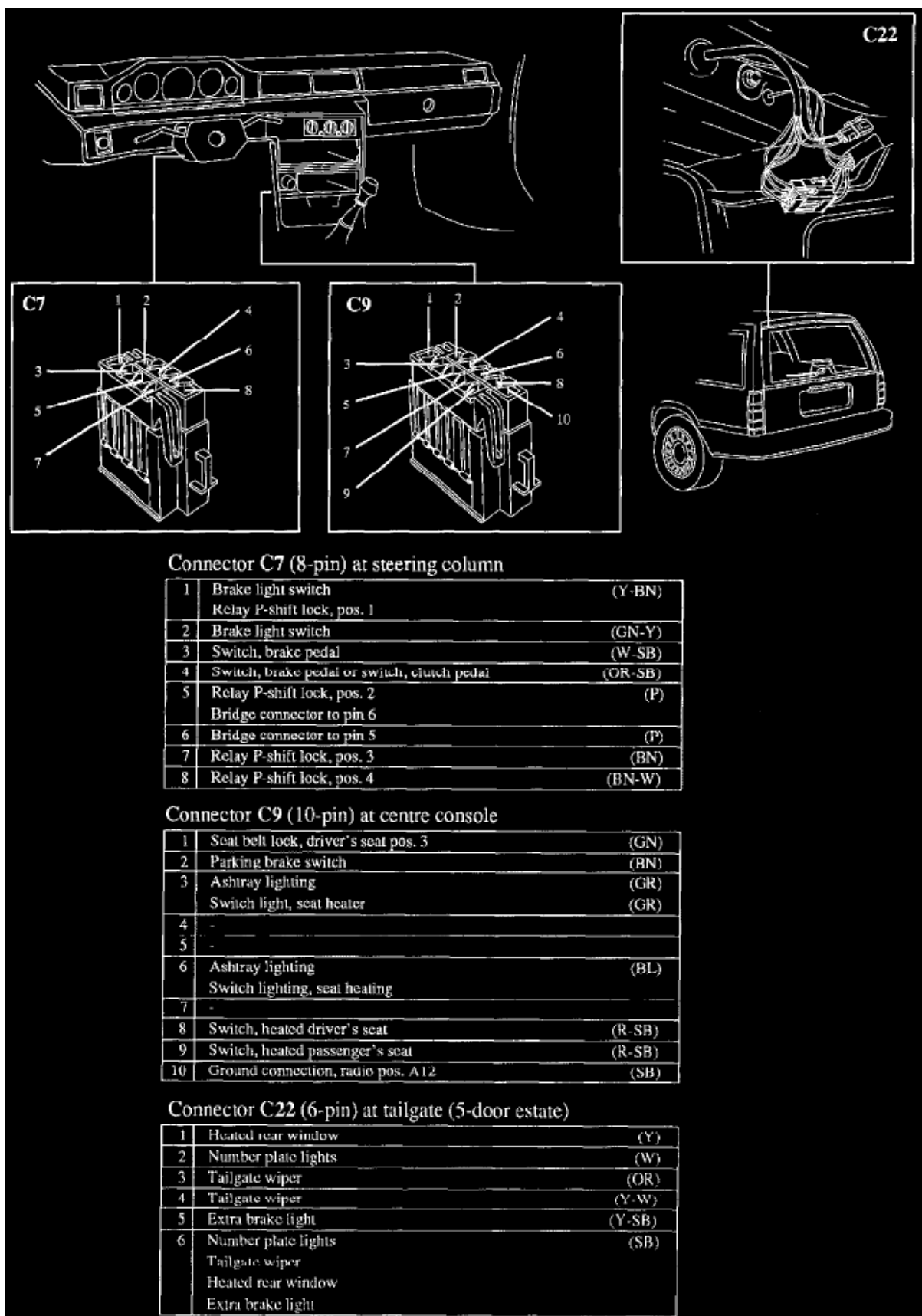
Connector C149 (11-pin) at B-post, passenger's side

1	Central lock, unlocking	(R-W)
2	Central lock, locking	(BL-R)
3	Warning light door	(GN-R)
4	Warning light door	(W-SB)
5	Window lift motor ON/OFF	(P)
6	Window lift motor	(BN)
7	Window lift motor	(R)
8	Loudspeaker +	(Y-W)
9	Loudspeaker -	(W)
10	-	
11	-	

Connector C150 (11-pin) at B-post, driver's side

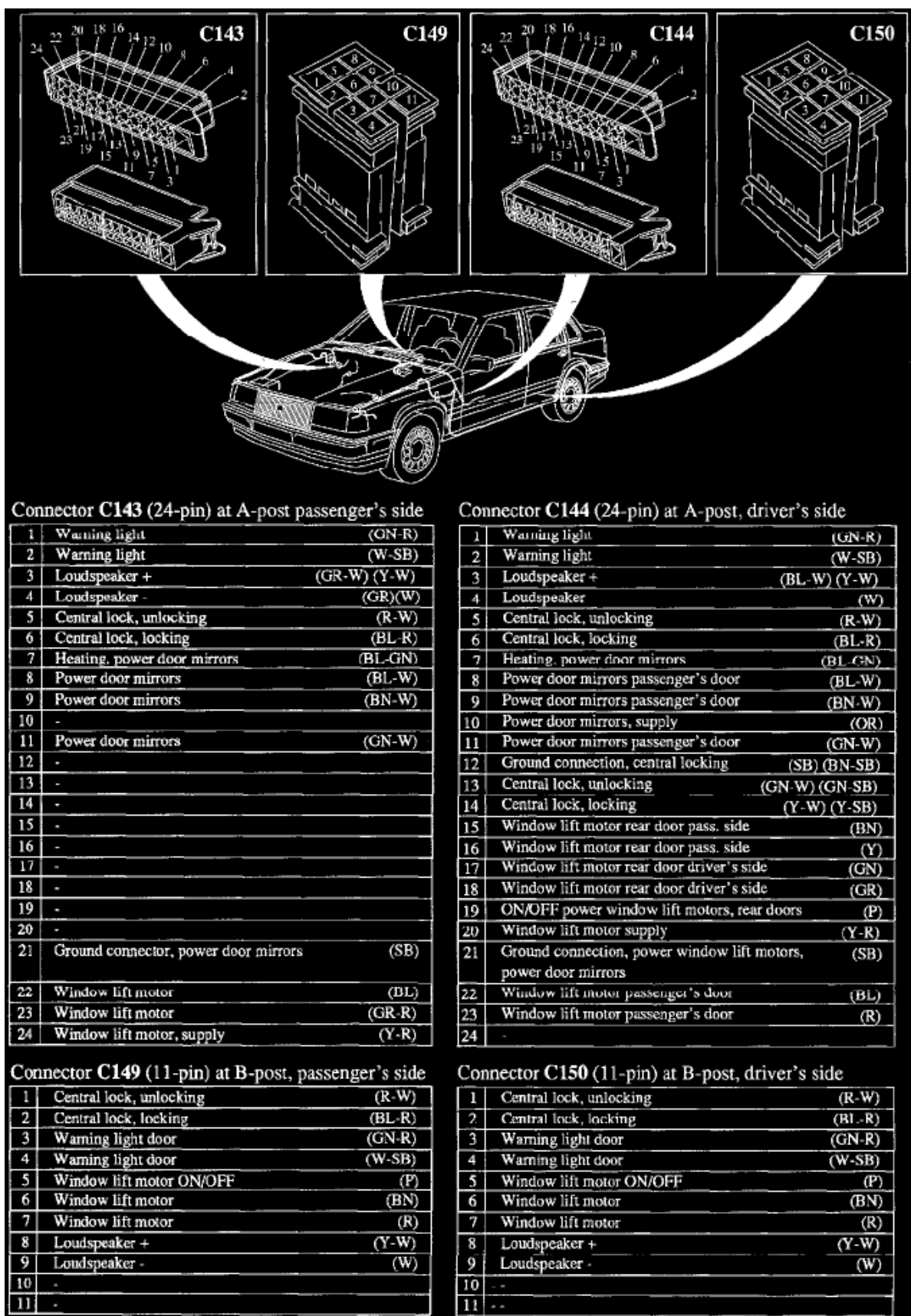
1	Central lock, unlocking	(R-W)
2	Central lock, locking	(BL-R)
3	Warning light door	(GN-R)
4	Warning light door	(W-SB)
5	Window lift motor ON/OFF	(P)
6	Window lift motor	(BN)
7	Window lift motor	(R)
8	Loudspeaker +	(Y-W)
9	Loudspeaker -	(W)
10	-	
11	-	



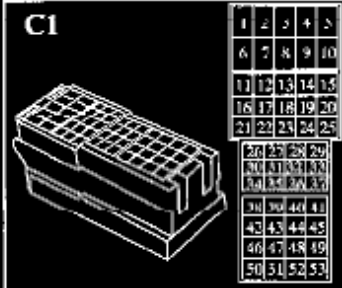


Connectors





Connectors For Doors



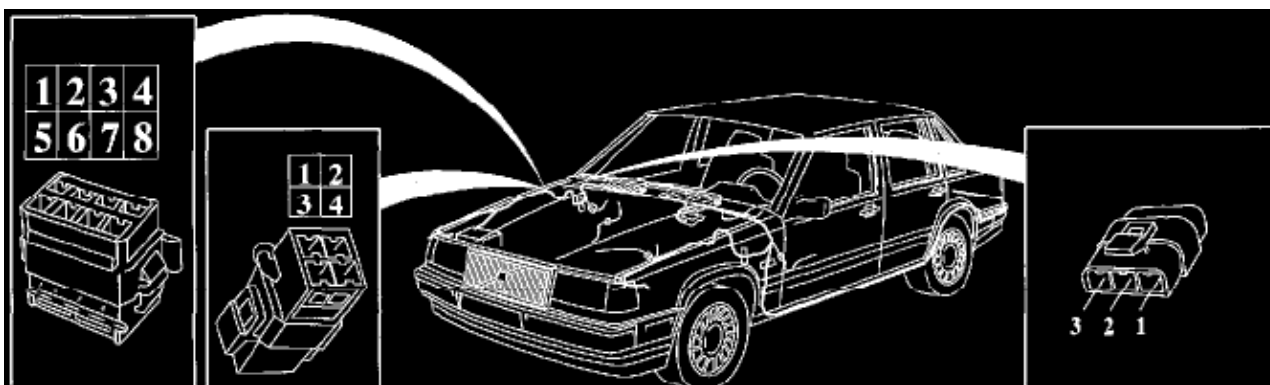
## White connector C1 (53-pin) Instrument panel harness - sill harness

all models	
1	Tail lights (BN-W)
2	Tail lights (R)
3	Brake light, left (Y-R)
4	Brake light, right (Y)
5	Backup (reversing) lights (SB)
6	Number plate lights (W)
7	Turn signal, left rear (GN)
8	Turn signal, right rear (BL-GN)
9	Fuel level sensor/primer pump (pump) (GR-W)
10	Heated rear window (Y)
11	Sensor, speedometer - (BN-W)
12	Sensor, speedometer + (GN-W)
13	Door switch, pre-routed interior lighting (W-SB)
14	Towing hook pos. 10 (BL-GN)
15	Rear foglights (GR)
16	Fuel level sensor/primer pump (pump) (BN)
17	Fuel level sensor/primer pump (pump) (P)
18	Extra brake light (Y-SB)
19	Tailgate wiper (OR)
20	Tailgate wiper (Y-W)
21	Power antenna pos. 3 (GN-GR)
22	-
23	-
24	Ground connector, left A-post (BN-GR)
25	Towing hook pos. 9 (W-SB)
26	Towing hook pos. 7 (W)
27	Towing hook pos. 5 (GR)
28	Towing hook pos. 6 (Y-BN)
29	Door-open warning light, left rear (GN-R)
	Interior lighting
	Trunk light
	Power antenna pos. 1
30	Interior lighting (BN-SB)
31	Connector, tailgate/trunk (anti-theft alarm) (BN-OR)
32	-
33	Loudspeaker rear parcel shelf right side + (GN-BN)
34	Loudspeaker rear parcel shelf right side - (GN)
35	Loudspeaker left rear door + (Y-W)
	Loudspeaker rear parcel shelf left side +
36	Loudspeaker left rear door - (W)
	Loudspeaker rear parcel shelf left side -
37	-
38	Central locking, rear door (R-W)
	Central locking, tailgate/trunk
39	-
40	-
41	Central locking, rear door (BL-R)
	Central locking, tailgate/trunk
42	-
43	-
44	-
45	-
46	-
47	-
48	-
49	-
50	Power window lift motor, rear door (GN)
51	Power window lift motor, rear door (GR)
52	-
53	Power window lift motor, rear door ON/OFF (P)

Connector At Left A-post







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin

C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102  
Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at  
thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin



7/41 High-pressure sensor, A/C



7/43 Thermostat, driver's seat  
7/44 Thermostat, passenger's seat  
7/47 PTC-resistor, air pre-heating  
7/50 Pressure sensor, intake manifold  
7/52 Temperature sensor, intake air  
7/53 Low-pressure sensor, A/C  
7/69 Ambient temperature sensor  
7/75 Bulb malfunction indicator  
8/1 Operating solenoid, overdrive  
8/2 Solenoids, ECC  
8/3 Solenoid coupling, A/C  
8/5 Idle air control (IAC) valve  
8/6-9 Injection valves  
8/13 Fuel valve, diesel  
8/15 Hydraulic unit, ABS  
8/17 Converter, EGR  
8/24 3-way valve, EGR  
8/30 Steering wheel module, SRS (airbag)  
8/33 Igniter for left seat belt tensioner  
8/34 Igniter for right seat belt tensioner  
8/36 Solenoid P-shift lock  
8/42 Solenoid, pulsed secondary air injection (PAIR)  
9/1 Cigar lighter  
9/2 Heated rear window  
9/3 Heater element, driver's seat backrest  
9/4 Heater element, passenger's seat backrest  
9/5 Heater element, driver's seat cushion  
9/6 Heater element, passenger's seat cushion  
10/5 Left front foglight  
10/6 Right front foglight  
10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

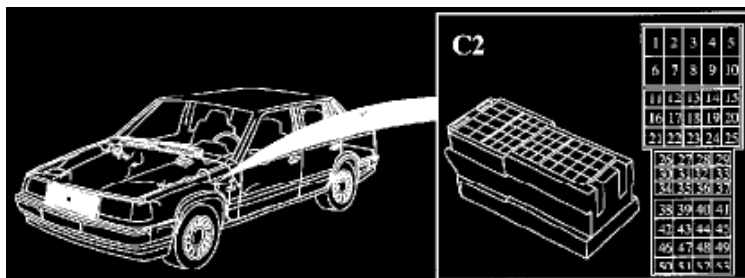
10/54 Bulb, left rear turn signal

10/55 Left backup (reversing) light

10/64 Right high beam

10/65 Right extra high beam





Black connector C2 (53-pin)  
Instrument panel harness - left wheel housing harness

B 230 F REX-I		
1	Starter motor 50	(BL-GN)
2	High beam left	(BL-W)
3	Low beam left	(GN)
4	Horn +	(Y)
5	Windshield wiper motor pos. 1	(GR)
	Headlight wiper motor (not USA/CDN)	
6	Windshield wiper motor pos. 2	(GR)
7	Windshield wiper motor pos. 3	(GN-W)
8	Windshield wiper motor pos. 4	(OR)
9	Front foglights	(W-SB)
10	Control module REX-I (DI) pos. 5	(BN)
11	On-board diagnostic (OBD) socket B pos. 5	(GR-OR)
12	On-board diagnostic (OBD) socket A pos. 5	(BL-P)
13	Turn signal, left	(GN)
14	Parking light, left	(W)
15	-	
16	Oil pressure sensor	(SB)
17	Horn -	(BL-SB)
18	Headlight wiper motor (not USA/CDN)	(BL-R)
19	Windshield washer motor	(Y-O)
	Brake fluid level sensor	
20	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)
22	Generator D+	(R)
23	On-board diagnostic (OBD) socket B pos. 6	(BL-W)
24	Service socket	(P)
25	On-board diagnostic (OBD) socket A pos. 2	(GN-W)
26	Control module REX-I (DI) pos. 3	(BN-W)
27	Power amplifier/ignition coil REX-I (DI) pos. C	(R-W)
28	On-board diagnostic (OBD) socket A pos. 4	(BL)
29	Control module REX-I (DI) pos. 6	(Y-GR)
	Power amplifier/ignition coil REX-I (DI) pos. A	
30	Control module REX-I (DI) pos. 17	
31	-	
32	Washer fluid level sensor	(R-SB)
33	Washer motor, tailgate	(BL-Y)
34	Door switch	(BN-SB)
35	Door switch	(W-SB)
36	-	
37	-	
38	Ambient temperature sensor	(GN-Y)
39	Ambient temperature sensor	(GN-R)
40	Anti-theft alarm, connector D4 pos. 1	(GR-W)
41	Anti-theft alarm, connector D4 pos. 2	(BN-P)
42	Control module cruise control pos. 10	(BN-GR)
43	Control module cruise control pos. 2	(P-SB)
44	Control module cruise control pos. 7	(BN-OR)
45	Control module cruise control pos. 11	(BL-OR)
46	Control module cruise control pos. 6	(BL-GR)
47	Control module cruise control pos. 4	(OR-W)
48	Control module cruise control pos. 3	(OR-SB)
49	Control module cruise control pos. 13	(GN-OR)
50	-	
51	-	
52	-	
53	-	

Connector At Left A-post



7/52 Temperature sensor, intake air

7/53 Low-pressure sensor, A/C

7/69 Ambient temperature sensor

7/75 Bulb malfunction indicator

8/1 Operating solenoid, overdrive

8/2 Solenoids, ECC

8/3 Solenoid coupling, A/C

8/5 Idle air control (IAC) valve

8/6-9 Injection valves

8/13 Fuel valve, diesel

8/15 Hydraulic unit, ABS

8/17 Converter, EGR

8/24 3-way valve, EGR

8/30 Steering wheel module, SRS (airbag)

8/33 Igniter for left seat belt tensioner

8/34 Igniter for right seat belt tensioner

8/36 Solenoid P-shift lock

8/42 Solenoid, pulsed secondary air injection (PAIR)

9/1 Cigar lighter

9/2 Heated rear window

9/3 Heater element, driver's seat backrest

9/4 Heater element, passenger's seat backrest

9/5 Heater element, driver's seat cushion

9/6 Heater element, passenger's seat cushion

Components 10/5 - 10/115

No. Component Name

10/5 Left front foglight

10/6 Right front foglight

10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal



10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

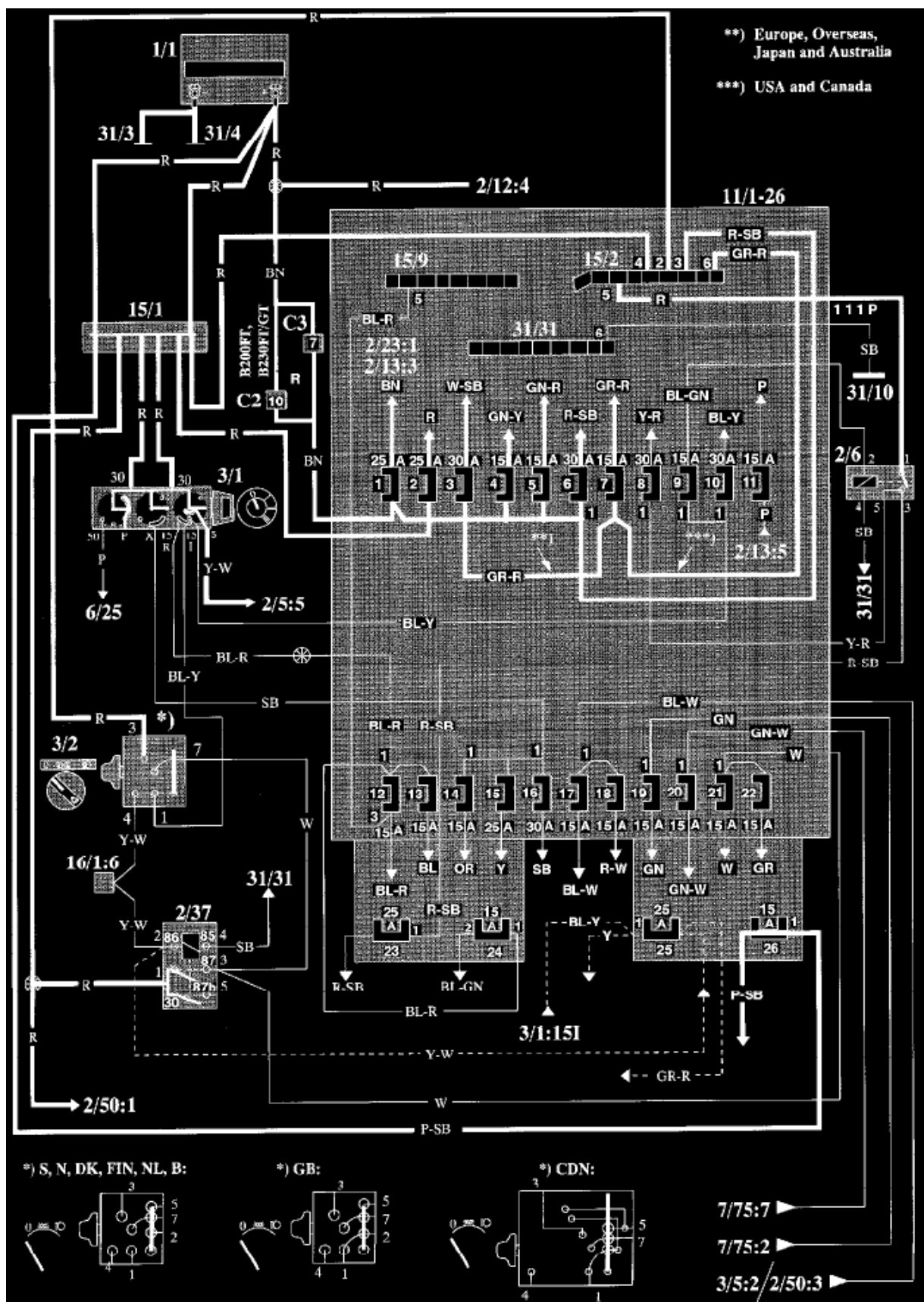
10/54 Bulb, left rear turn signal

10/55 Left backup (reversing) light

10/64 Right high beam

10/65 Right extra high beam





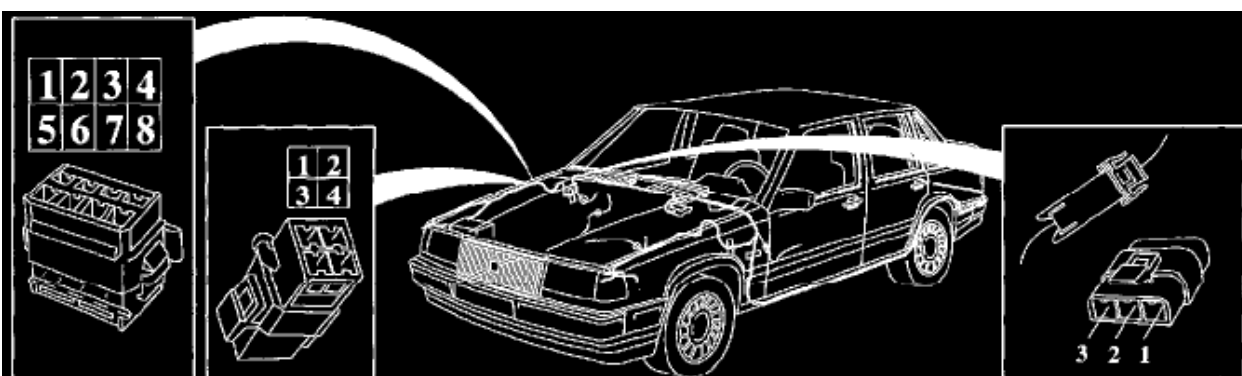
Electrical Distribution Unit, Fuses

Wiring Diagram

Component I.D. List

Fuse no. Function





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)



3/10 Backup (reversing) light switch



3/12 Switch, windshield wash/wipe

3/13 Switch, tailgate wash/wipe

3/14 Switch, lock button

3/15 Power window switch, driver's door for driver's door

3/16 Power window switch, driver's door for driver's side rear door

3/17 Power window switch, driver's door for passenger's side front

3/18 Power window switch, driver's door for passenger's side rear

3/19 Power window switch, driver's side rear

3/20 Power window switch, passenger's side front

3/21 Power window switch, passenger's side rear

3/22 Switch for rear power window lifts

3/23 Switch for power door mirror, driver's side

3/24 Switch for power door mirror, passenger's side

3/25 Switch for power sunroof

3/26 Operating module, driver's seat

3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

Components 4/1 - 6/39

No. Component Name

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 ontrol module LH-jetronic 2.4 (MFI) system

4/25 Control module Regina (MFI) system

4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

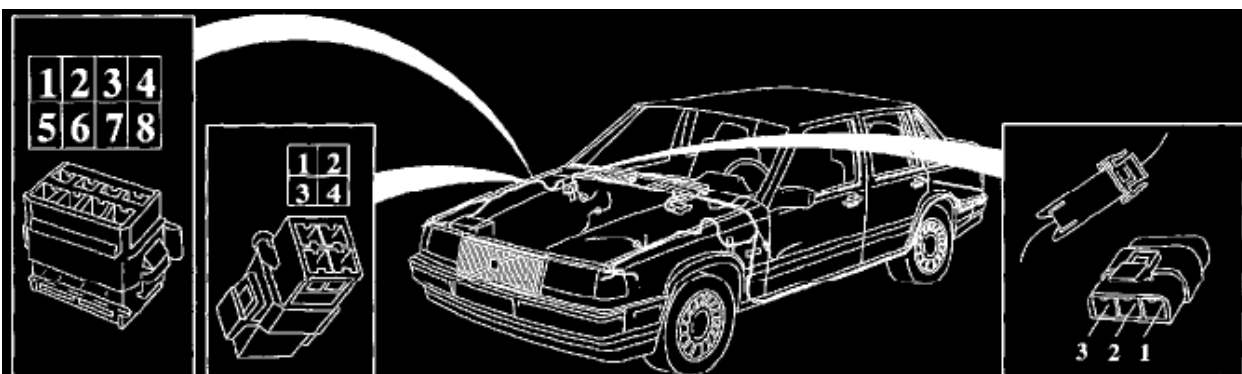
5/1 Combined instrument

5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
---	---------------------------------	--------

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)



7/41 High-pressure sensor, A/C

7/43 Thermostat, driver's seat  
7/44 Thermostat, passenger's seat  
7/47 PTC-resistor, air pre-heating  
7/50 Pressure sensor, intake manifold  
7/52 Temperature sensor, intake air  
7/53 Low-pressure sensor, A/C  
7/69 Ambient temperature sensor  
7/75 Bulb malfunction indicator  
8/1 Operating solenoid, overdrive  
8/2 Solenoids, ECC  
8/3 Solenoid coupling, A/C  
8/5 Idle air control (IAC) valve  
8/6-9 Injection valves  
8/13 Fuel valve, diesel  
8/15 Hydraulic unit, ABS  
8/17 Converter, EGR  
8/24 3-way valve, EGR  
8/30 Steering wheel module, SRS (airbag)  
8/33 Igniter for left seat belt tensioner  
8/34 Igniter for right seat belt tensioner  
8/36 Solenoid P-shift lock  
8/42 Solenoid, pulsed secondary air injection (PAIR)  
9/1 Cigar lighter  
9/2 Heated rear window  
9/3 Heater element, driver's seat backrest  
9/4 Heater element, passenger's seat backrest  
9/5 Heater element, driver's seat cushion  
9/6 Heater element, passenger's seat cushion  
10/5 Left front foglight  
10/6 Right front foglight  
10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

10/54 Bulb, left rear turn signal

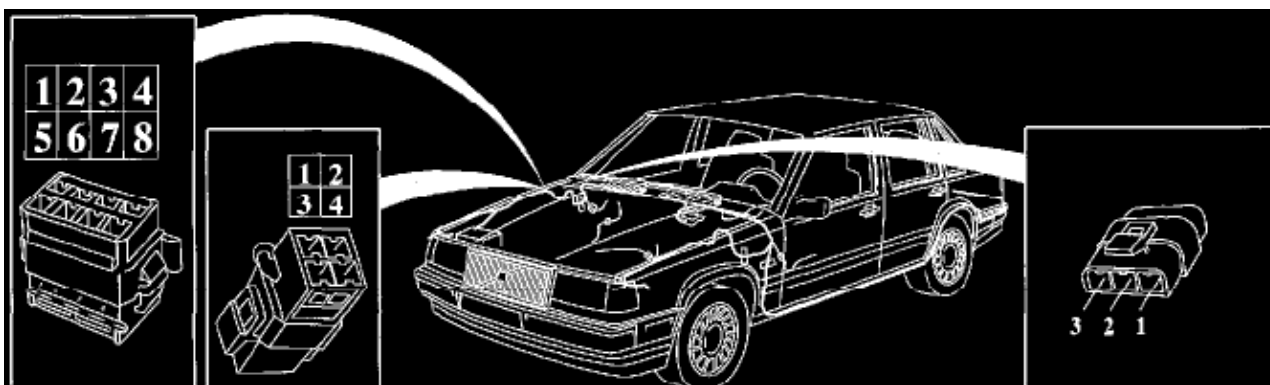


10/55 Left backup (reversing) light

10/64 Right high beam

10/65 Right extra high beam





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

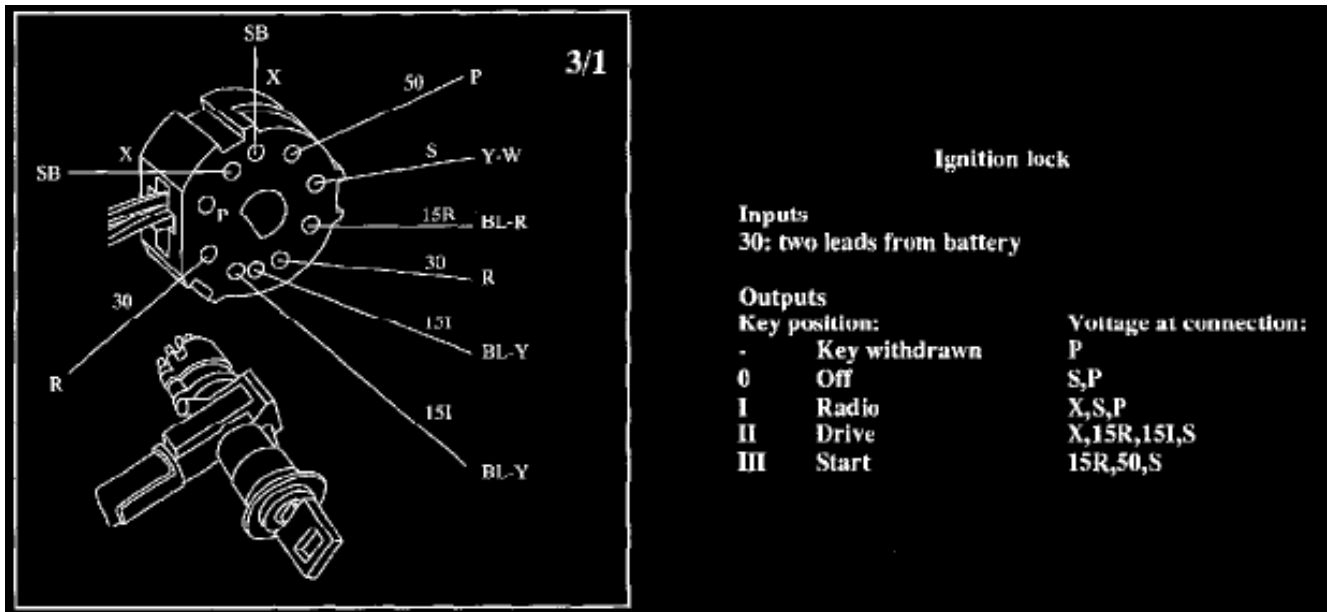
1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



Connector, Ignition Lock

Fuse Rating / Circuit Assignment - Electrical Distribution Unit



3/10 Backup (reversing) light switch

3/12 Switch, windshield wash/wipe

3/13 Switch, tailgate wash/wipe

3/14 Switch, lock button

3/15 Power window switch, driver's door for driver's door

3/16 Power window switch, driver's door for driver's side rear door

3/17 Power window switch, driver's door for passenger's side front

3/18 Power window switch, driver's door for passenger's side rear

3/19 Power window switch, driver's side rear

3/20 Power window switch, passenger's side front

3/21 Power window switch, passenger's side rear

3/22 Switch for rear power window lifts

3/23 Switch for power door mirror, driver's side

3/24 Switch for power door mirror, passenger's side

3/25 Switch for power sunroof

3/26 Operating module, driver's seat

3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

Components 4/1 - 6/39

No. Component Name

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 ontrol module LH-jetronic 2.4 (MFI) system

4/25 Control module Regina (MFI) system

4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

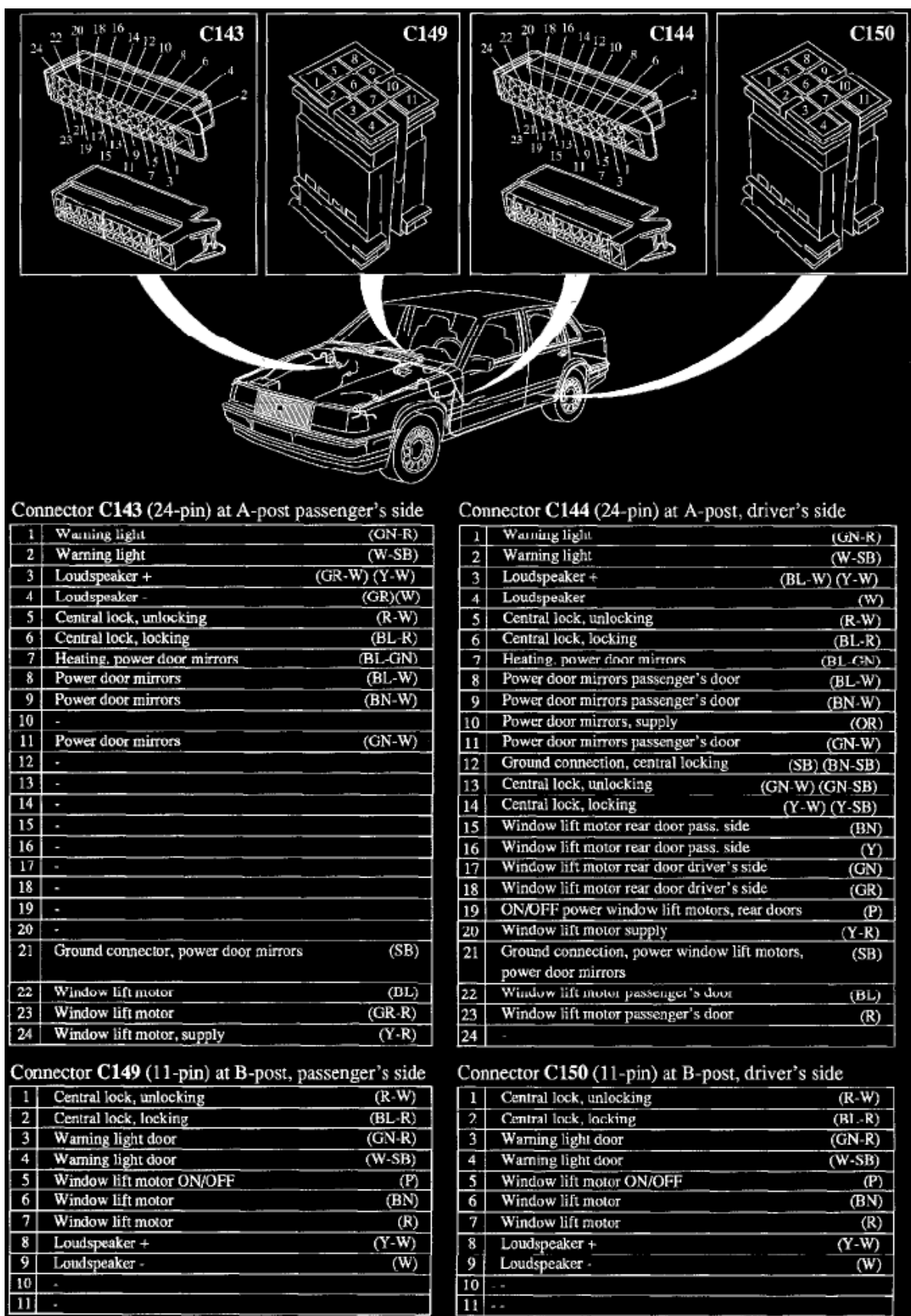
5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front







Connectors For Doors



C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, ate. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components 1/1 - 3/70

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection

2/34 Relay, front foglights

2/36 Headlight flasher

2/37 Headlight relay

2/38 Timer relay, exhaust gas recirculation (EGR)

2/45 Relay, P-shift lock

2/50 Bypass relay, high beam

3/1 Ignition lock

3/2 Light switch

3/4 Cruise control operation

3/5 Switch, turn signal/high-low beam

3/6 Switch, hazard warning flashers

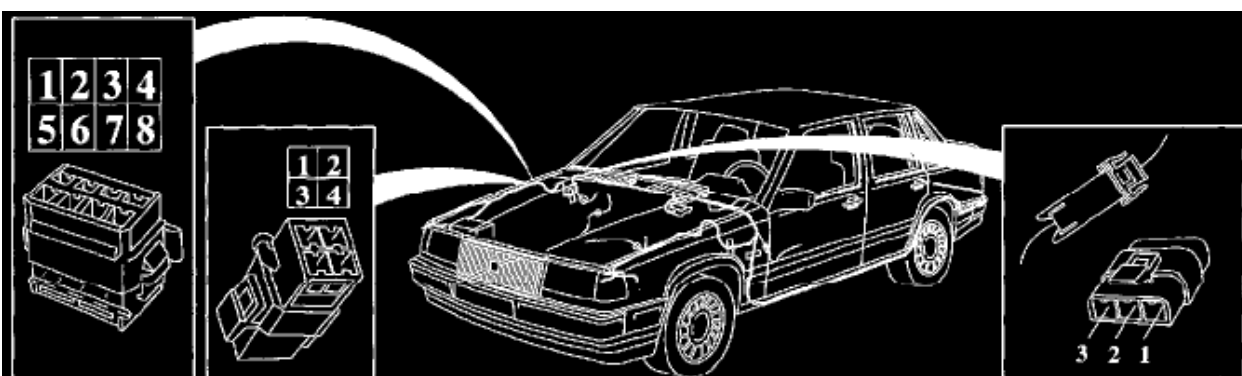
3/7 Foglight switch

3/8-1 Switch, heated rear window

3/8-2 Switch with timer relay, heated rear window/door mirrors

3/9 Brake light switch





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
---	---------------------------------	--------

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)

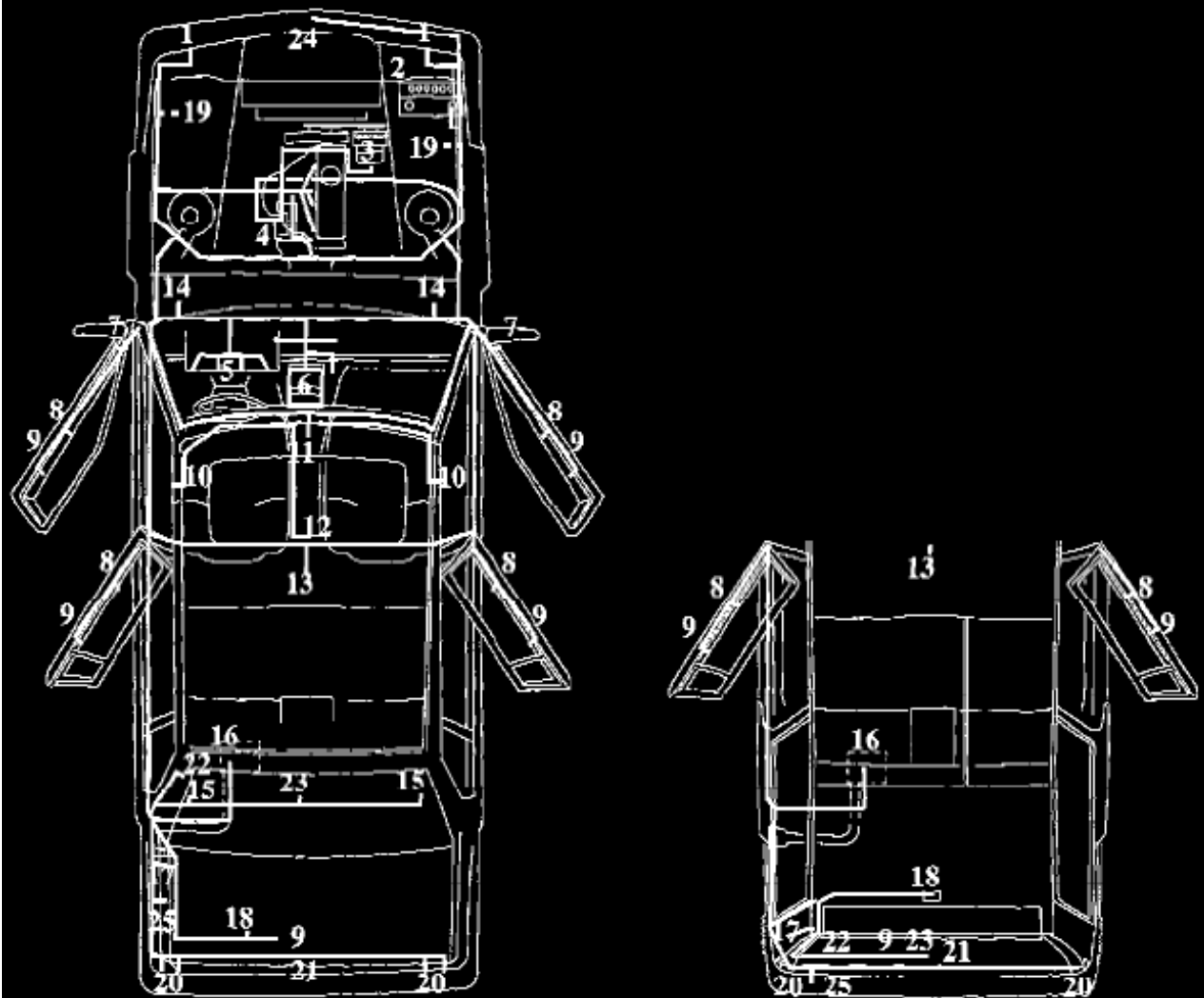




## Cable routing

The routing of the main cables is shown in the illustration.

- |    |                              |    |                                   |
|----|------------------------------|----|-----------------------------------|
| 1  | Front lights                 | 13 | Interior lighting                 |
| 2  | Battery                      | 14 | Loudspeakers, instrument panel    |
| 3  | Generator                    | 15 | Loudspeakers, rear parcel shelf   |
| 4  | Starter motor                | 16 | Fuel gauge                        |
| 5  | Combined instrument          | 17 | Power antenna                     |
| 6  | Electrical distribution unit | 18 | Trunk lighting                    |
| 7  | Power door mirrors           | 19 | ABS hydraulic unit                |
| 8  | Power windows                | 20 | Tail lights                       |
| 9  | Central locking              | 21 | Number plate lighting             |
| 10 | Control modules, power seats | 22 | Heated rear window                |
| 11 | Motor, power sunroof         | 23 | Extra brake light                 |
| 12 | Ashtray lighting             | 24 | Engine cooling fan                |
|    |                              | 25 | Pre-routed wiring for towing hook |



## **Diagram Information and Instructions**

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 138.

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

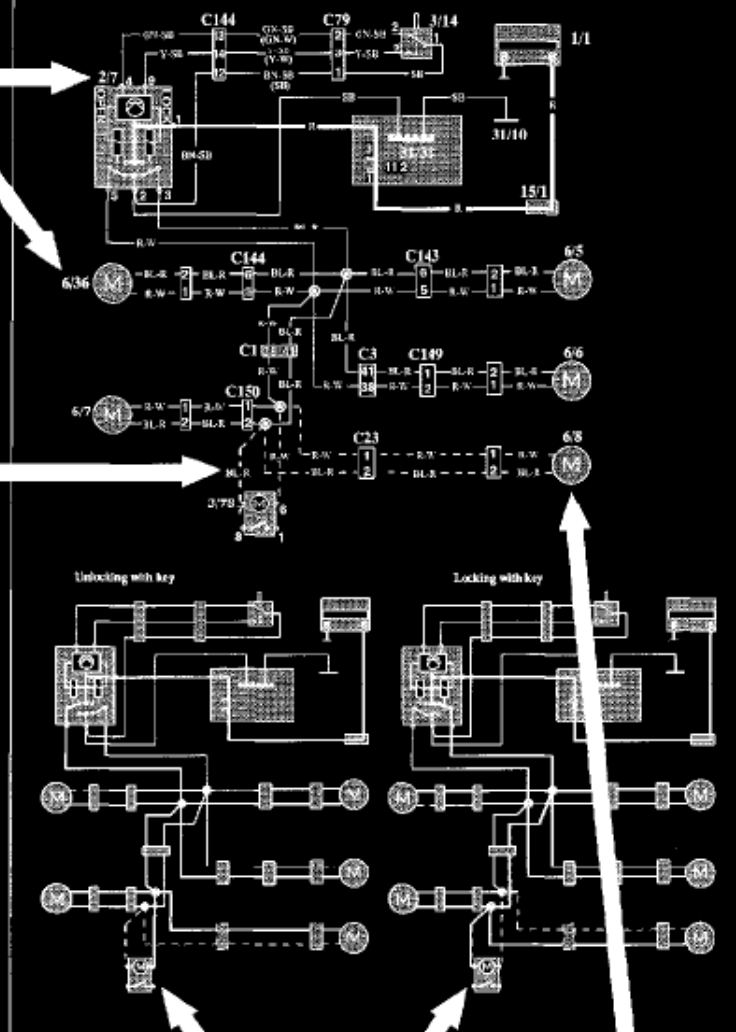
Each component has a component designation.  
At the end of the manual there is a component  
list where you can see what each component  
is called.

Wire colours are indicated with letters of the alphabet:

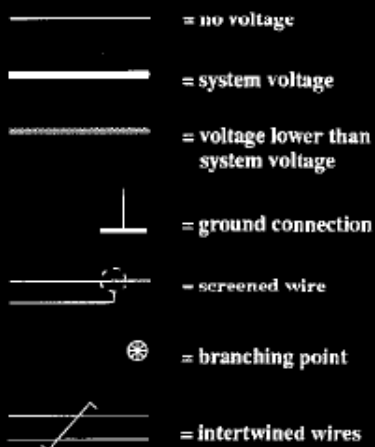
SB = Black	BN = Brown	GN = Green
GR = Grey	Y = Yellow	OR = Orange
W = White	P = Pink	VO = Purple
R = Red	BL = Blue	

BL-R is thus = Blue-red.

### Central locking



### Code to colours in the wiring diagram



Here you see the voltage under operational conditions.

## Diagram Information



31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin

Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin



C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

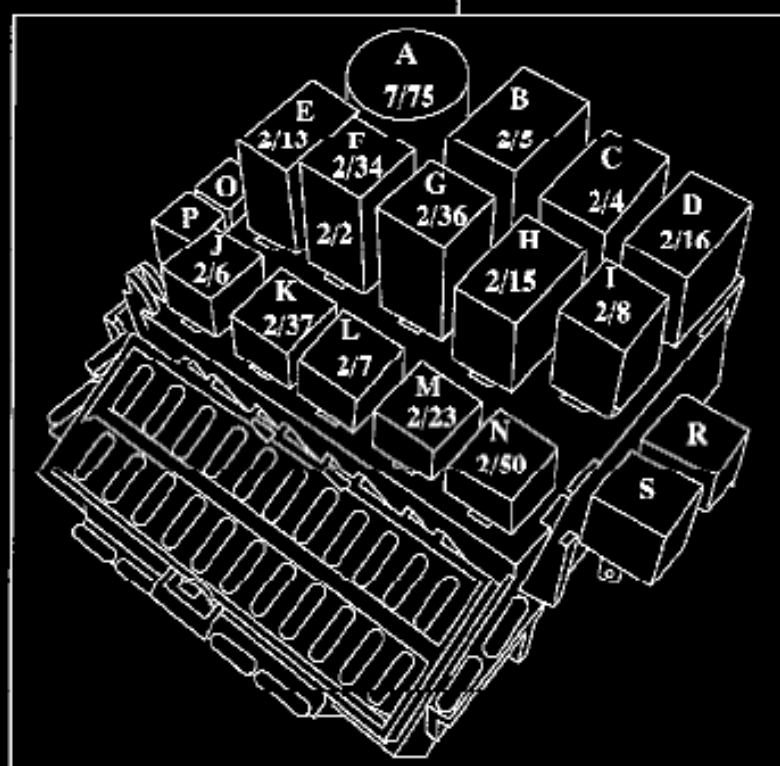
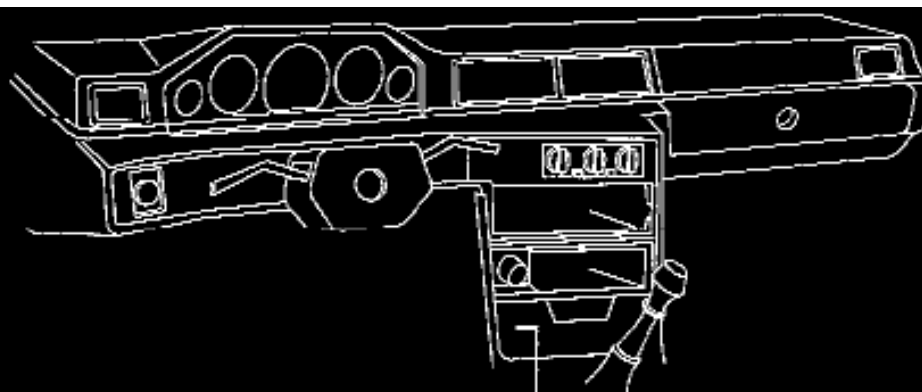
C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin





Relays in electrical distribution unit

- |   |  |   |   |
|---|--|---|---|
| A | Bulb failure warning sensor (7/75)                           | J | Overload relay 15I (2/6)<br>(power windows/seat heater) |
| B | Seat belt reminder/key warning (2/5)<br>(USA, Canada, Korea) | K | Headlight (2/37)  |
| C | Windshield wiper intermittent relay (2/4)                    | L | Central lock (2/7)                                      |
| D | Tailgate wiper intermittent relay (2/16)                     | M | Fuel pump relay (2/23)                                  |
| E | Fuel injection (2/13)  | N | Overload relay high beam (2/50)<br>(not USA, Canada)    |
| F | Foglights, front (2/34 or 2/2 USA, Canada)                   | O | -   |
| G | Headlight flasher (2/36)                                     | P | -   |
| H | Exhaust temp. sensor (2/15) (Japan)                          | R | -   |
| I | Overdrive (2/8)  | S | -   |

Relay, front foglights (USA/CDN)

20 Right low beam

Beam width control

21 Left parking lights, front and rear

Number plate lights

Instrument and control panel lights

Ambient temperature sensor

22 Relay, front foglights (Europe)

Right parking lights, front and rear

Ashtray light, rear

Automatic transmission selector illumination

Lighting, switches and storage compartment in centre console

23 Heated front seats

24 ABS

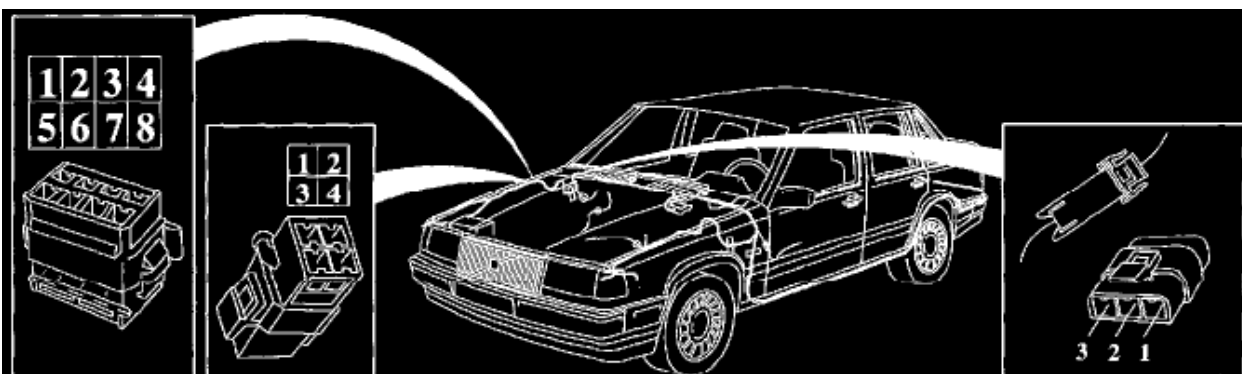
25 Rear foglights (USA, Canada, Japan)

Disconnectable low beam (Nordic market, Netherlands, Belgium)

26 Amplifier, radio

Relays In Electrical Distribution Unit





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

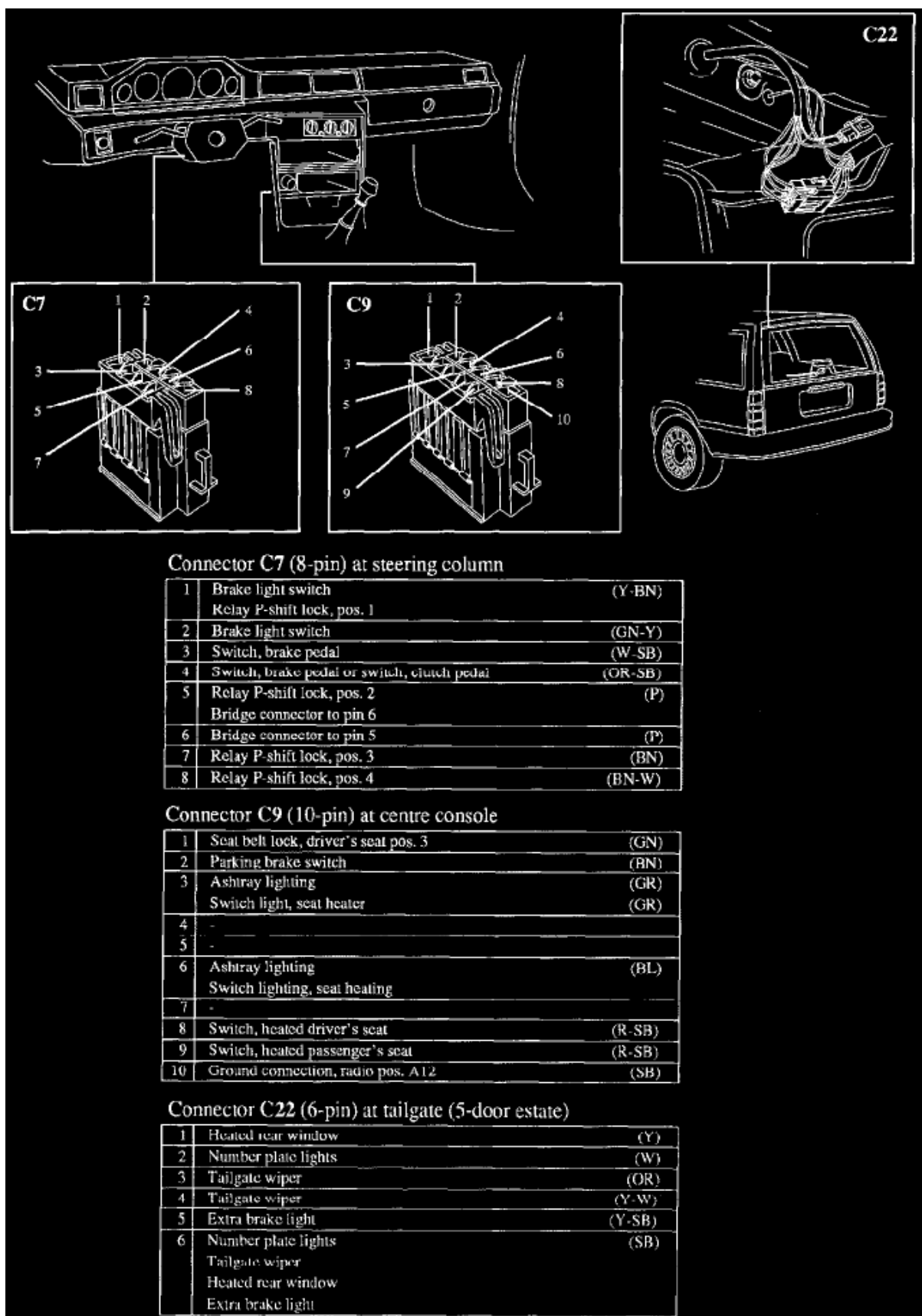
1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)







Connectors



**Black connector C2 (53-pin)**  
Instrument panel - left wheel housing

	B200F/FT, B230F/FA/FD/G/FT/GT-EZK (DI)	D24/D24TIC
1	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN) Relay, glowplug mechanism pos. 3
2	High beam, left (BL-W)	High beam, left (BL-W)
3	Low beam, left (GN)	Low beam, left (GN)
	Beam width control (Germany) (GN-BN)	Beam width control (Germany) (GN-BN)
4	Horn + (Y) Windshield wiper motor pos. 1 Headlight wiper motor (not USA/CDN)	Horn + (Y) Windshield wiper motor pos. 1 Headlight wiper motor
5	Windshield wiper motor pos. 2 (GR)	Windshield wiper motor pos. 2 (GR)
6	Windshield wiper motor pos. 3 (GN-W)	Windshield wiper motor pos. 3 (GN-W)
7	Windshield wiper motor pos. 4 (OR)	Windshield wiper motor pos. 4 (OR)
8	Front foglights (W-SB)	Front foglights (W-SB)
9	Control module EZK (DI) pos. 5 (not FT/GT) (BL) (BN)	Relay, glowplug mechanism pos. 4 Pos. 3, connector C51 at left suspension tower
10	B200FT, B230FT/GT: Battery + (BN) Relay, radio interference suppression pos. 4	
11	On-board diagnostic (OBD) socket B pos. 5 (GR-OR)	On-board diagnostic (OBD) socket B pos. 5 (GR-OR)
12	On-board diagnostic (OBD) socket A pos. 3 (BL-P)	On-board diagnostic (OBD) socket A pos. 3 (BL-P)
13	Turn signal, left (GN)	Turn signal, left (GN)
14	Parking lights, left (W)	Parking lights, left (W)
15	Beam width control (Germany) (GR)	Beam width control (Germany) (GR)
16	Oil pressure sensor (SB)	Oil pressure sensor (SB)
17	Horn - (BL-SB)	Horn - (BL-SB)
18	Headlight wiper motor (not USA/CDN) (BL-R) Windshield washer motor (not FT/GT)	Headlight wiper motor (BL-R)
19	Brake fluid level sensor (VO)	Brake fluid level sensor (VO)
20	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)
22	Generator D+ (R)	Generator D+ (R)
23	On-board diagnostic (OBD) socket B pos. 6 (BL-W)	On-board diagnostic (OBD) socket B pos. 6 (BL-W)
24	Service socket (P)	Service socket (P)
25	On-board diagnostic (OBD) socket A pos. 2 (GN GR/GN W)	
26	Ignition Control Module (ICM) pos. 3 (BN-W)	
27	Power amplifier EZK (DI) pos. 1 (R-W) Ignition coil 1	Generator W (R-W)
28	Ignition Control Module (ICM) pos. 6 (BL) Power amplifier EZK (DI) pos. 4 On-board diagnostic (OBD) socket A pos. 4 Converter, EGR (B230FD and B230FT California)	On-board diagnostic (OBD) socket A pos. 4 (BL)
29	Ignition Control Module (ICM) pos. 17 (Y-GR)	
30	-	Pressure sensor, turbodiesel (D24TIC) (Y-R)
31	-	
32	B200FT, B230FT/GT: Ignition Control Module (ICM) pos. 5 (BN)(BN-W) Others: Washer fluid level sensor (R-SB)(BL-W)	
33	B200FT, B230FT/GT: Relay, radio interference suppression pos. 2 (BL-Y) Others: Wiper motor, tailgate	
34	Door switch (BN-SB)	Door switch (BN-SB)
35	Door switch (W-SB)	Door switch (W-SB)
36	-	
37	Ignition Control Module (ICM) pos. 4 (GR-R)	Relay, glowplug mechanism pos. 1 (GR)
38	Ambient temperature sensor (GN-Y)	Ambient temperature sensor (GN-Y)
39	Ambient temperature sensor (GN-R)	Ambient temperature sensor (GN-R)
40	Anti-theft alarm, connector D4 pos. 1 (GR-W)	Anti-theft alarm, connector D4 pos. 1 (GR-W)
41	Anti-theft alarm, connector D4 pos. 2 (BN-P)	Anti-theft alarm, connector D4 pos. 2 (BN-P)
42	Control module cruise control pos. 10 (BN-GR)	
43	Control module cruise control pos. 2 (P-SB)	
44	Control module cruise control pos. 7 (BN-OR)	
45	Control module cruise control pos. 11 (BL-OR)	
46	Control module cruise control pos. 6 (BL-GR)	
47	Control module cruise control pos. 4 (OR-W)	
48	Control module cruise control pos. 3 (OR-SB)	
49	Control module cruise control pos. 13 (GN-OR)	
50	B230FD: Solenoid valve, pulsed secondary air injection (PAIR) (BL-W)	
51	-	
52	-	
53	-	

Connector At Left A-post





20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor

Components 31/1 - 31/64

No. Component Name

31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

Wire Color Code Identification

SB = Black

GR = Grey

W = White

R = Red

BN = Brown

Y = Yellow

P = Pink

BL = Blue

GN = Green

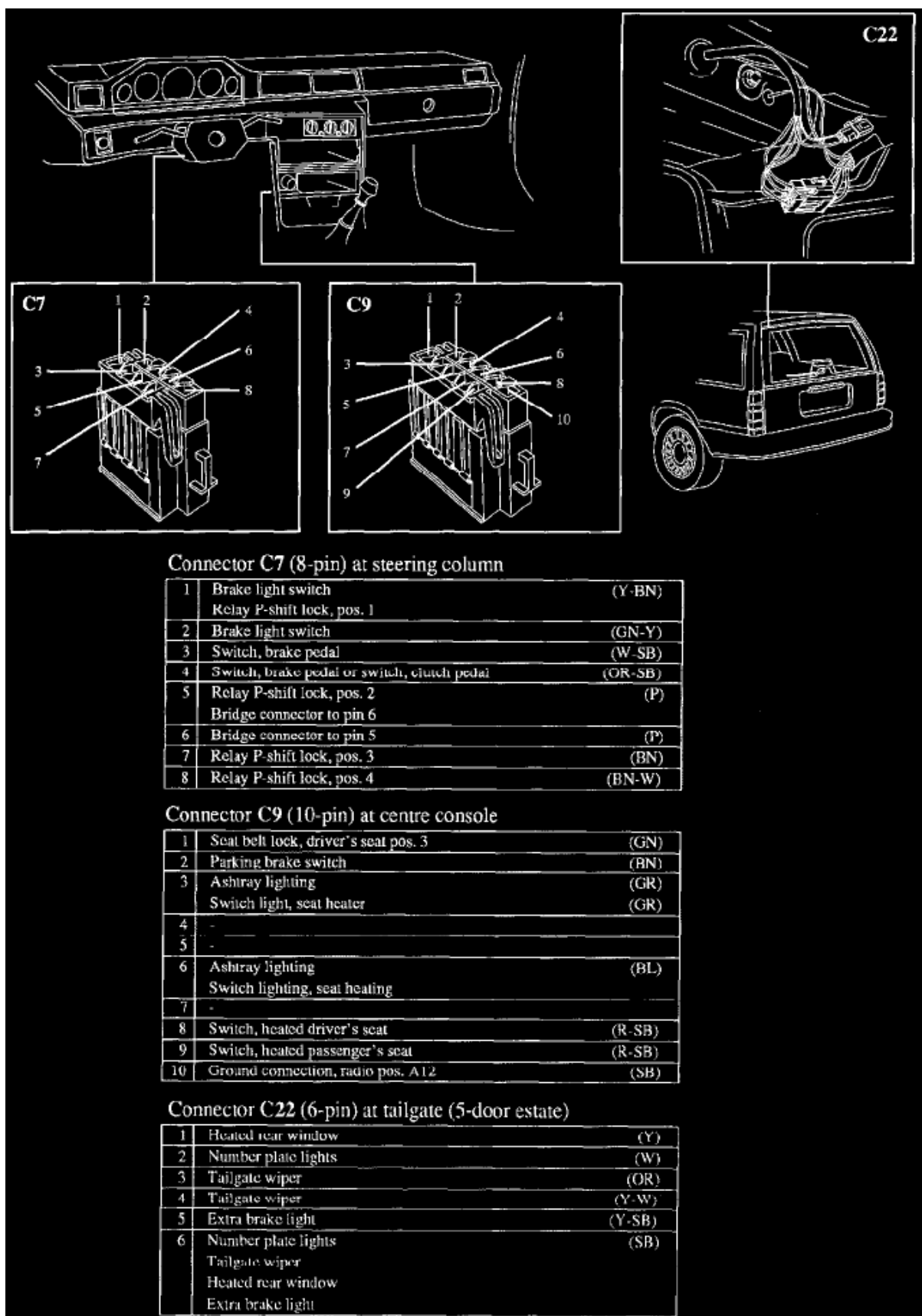
OR = Orange

VO = Violet

Y-GR = Yellow-Grey







Connectors



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	



1 Fuel pump (LH-2.4 MFI)

Fuel system

Distributor Ignition (DI) system

Oxygen sensor (HO2S) heating (B200/230FT)

2 Hazard warning flashers

Headlight flasher (via fuse 17 and 18)

Central locking

Anti-theft alarm

3 Power seats (Towing hook)

4 Brake lights Solenoid, P-shift lock

5 Clock

Vanity mirror light

Glove compartment lighting

Trunk light

Interior lighting

Radio

Power antenna

Door-open warning lights

CD.autochanger

Anti-theft alarm

6 Electronic Climate Control (ECC) Cabin fan, Electronic Climate Control (ECC)

7 Front foglights

Rear foglights (not USA, Canada)

8 Power windows

9 Turn signals

Warning lights for seat belts

Seat belt reminder

Ignition key warning

Bypass relay 151 (power windows/seat heating)

Solenoid, P-shift lock

(Towing hook)

10 Heated rear window

Power sunroof

Heated door mirrors

11 Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI) Oxygen sensor (HO2S) heating

12 Backup (reversing) lights Overdrive relay

Bulb malfunction indicator with brake monitor

Exhaust temperature sensor (Japan)

Cruise control

Anti-theft alarm

Fuse no. Functions

13 Fuel valve, diesel

Pre-heating mechanism, diesel

EGR diesel

Solenoid, pulsed secondary air injection (PAIR) (B23OFD)

14 Power door mirrors

Cigar lighter

Radio

Tailgate washer

Tailgate wiper

Ambient temperature sensor

15 Relays, power seat5

Horn

Windshield wash/wipe

Headlight wash/wipe

16 Cabin fan, standard heater

Cabin fan, Manual Climate Control (MCC)

Electronic Climate Control (ECC)

17 Left high beam

Indicator light, high beam

18 Right high beam

Front fog lights (Japan, Taiwan and Saudi Arabia)

19 Left low beam

Beam width control

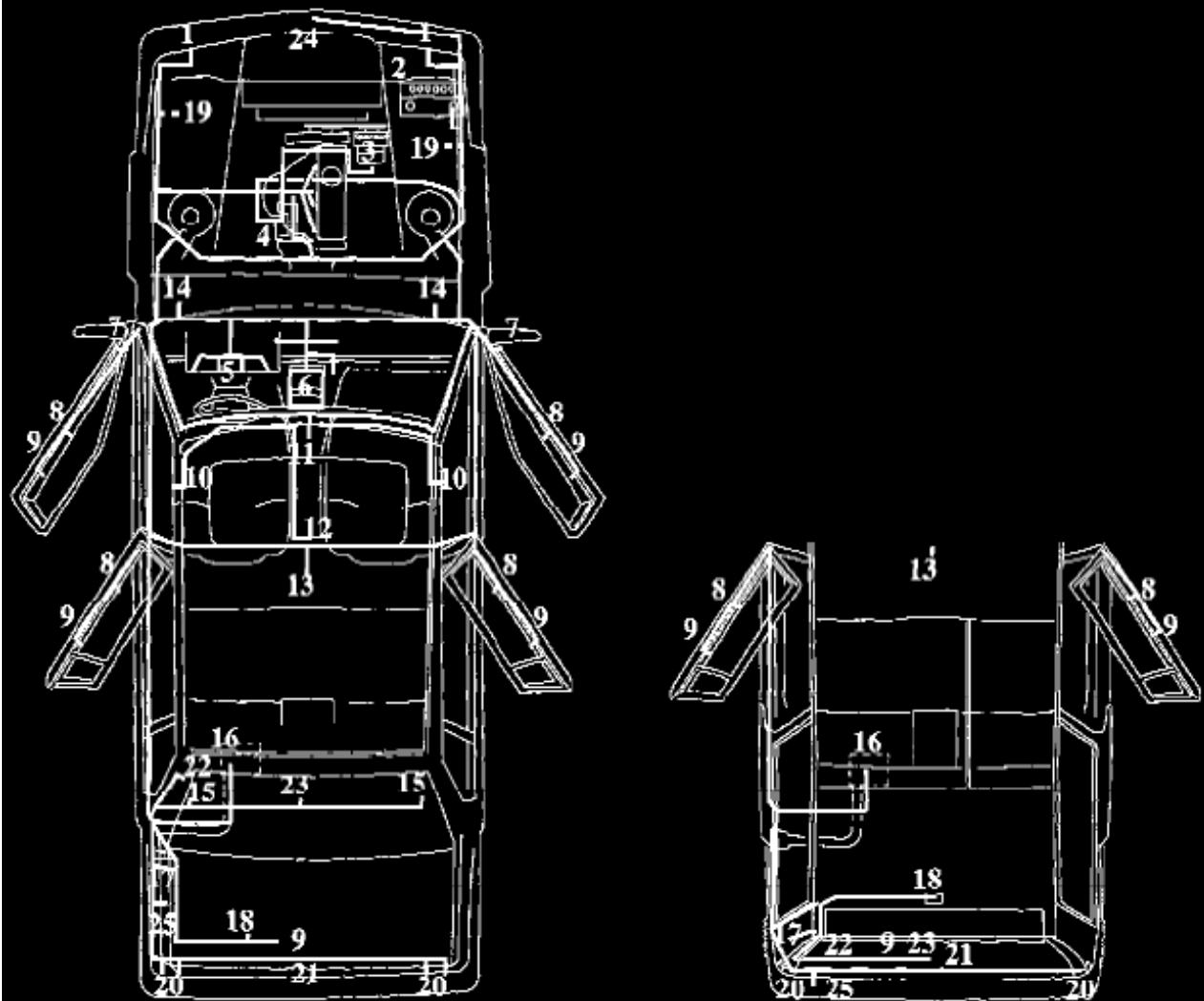




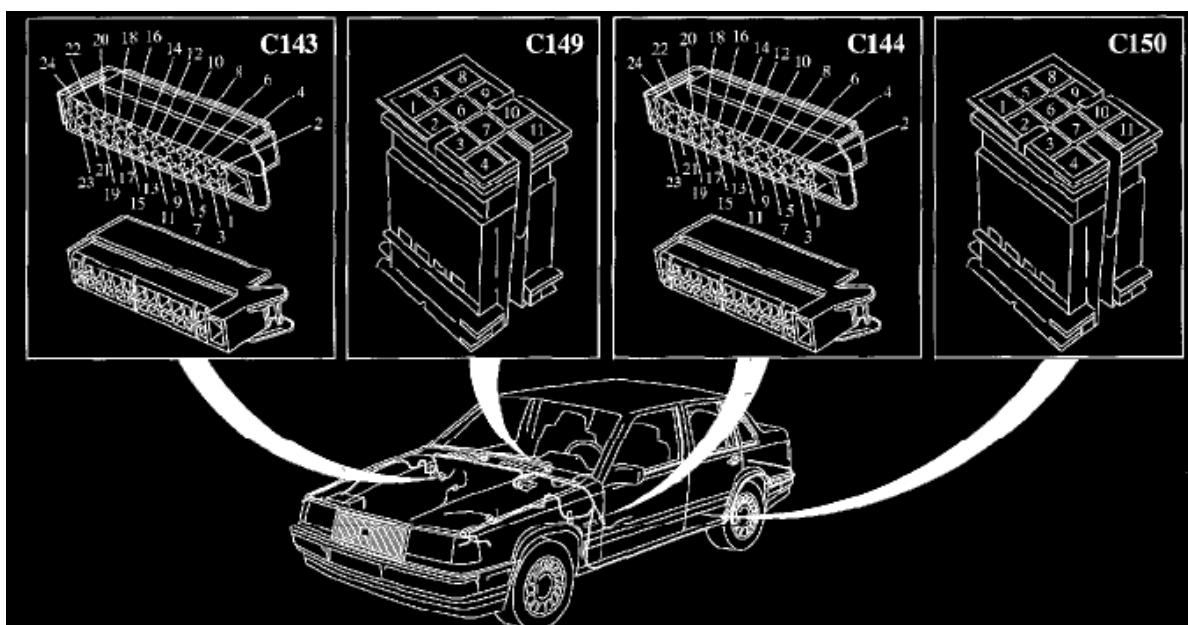
## Cable routing

The routing of the main cables is shown in the illustration.

- |    |                              |    |                                   |
|----|------------------------------|----|-----------------------------------|
| 1  | Front lights                 | 13 | Interior lighting                 |
| 2  | Battery                      | 14 | Loudspeakers, instrument panel    |
| 3  | Generator                    | 15 | Loudspeakers, rear parcel shelf   |
| 4  | Starter motor                | 16 | Fuel gauge                        |
| 5  | Combined instrument          | 17 | Power antenna                     |
| 6  | Electrical distribution unit | 18 | Trunk lighting                    |
| 7  | Power door mirrors           | 19 | ABS hydraulic unit                |
| 8  | Power windows                | 20 | Tail lights                       |
| 9  | Central locking              | 21 | Number plate lighting             |
| 10 | Control modules, power seats | 22 | Heated rear window                |
| 11 | Motor, power sunroof         | 23 | Extra brake light                 |
| 12 | Ashtray lighting             | 24 | Engine cooling fan                |
|    |                              | 25 | Pre-routed wiring for towing hook |







Connector C143 (24-pin) at A-post passenger's side

1	Warning light	(GN-R)
2	Warning light	(W-SB)
3	Loudspeaker +	(GR-W) (Y-W)
4	Loudspeaker -	(GR)(W)
5	Central lock, unlocking	(R-W)
6	Central lock, locking	(BL-R)
7	Heating, power door mirrors	(BL-GN)
8	Power door mirrors	(BL-W)
9	Power door mirrors	(BN-W)
10	-	
11	Power door mirrors	(GN-W)
12	-	
13	-	
14	-	
15	-	
16	-	
17	-	
18	-	
19	-	
20	-	
21	Ground connector, power door mirrors	(SB)
22	Window lift motor	(DL)
23	Window lift motor	(GR-R)
24	Window lift motor, supply	(Y-R)

Connector C144 (24-pin) at A-post, driver's side

1	Warning light	(GN-R)
2	Warning light	(W-SB)
3	Loudspeaker +	(BL-W) (Y-W)
4	Loudspeaker -	(W)
5	Central lock, unlocking	(R-W)
6	Central lock, locking	(BL-R)
7	Heating, power door mirrors	(BL-GN)
8	Power door mirrors passenger's door	(BL-W)
9	Power door mirrors passenger's door	(BN-W)
10	Power door mirrors, supply	(OR)
11	Power door mirrors passenger's door	(GN-W)
12	Ground connection, central locking	(SB) (BN-SB)
13	Central lock, unlocking	(GN-W) (GN-SB)
14	Central lock, locking	(Y-W) (Y-SB)
15	Window lift motor rear door pass. side	(BN)
16	Window lift motor rear door pass. side	(Y)
17	Window lift motor rear door driver's side	(GN)
18	Window lift motor rear door driver's side	(GR)
19	ON/OFF power window lift motors, rear doors	(P)
20	Window lift motor supply	(Y-R)
21	Ground connection, power window lift motors, power door mirrors	(SB)
22	Window lift motor passenger's door	(BL)
23	Window lift motor passenger's door	(R)
24	-	

Connector C149 (11-pin) at B-post, passenger's side

1	Central lock, unlocking	(R-W)
2	Central lock, locking	(BL-R)
3	Warning light door	(GN-R)
4	Warning light door	(W-SB)
5	Window lift motor ON/OFF	(P)
6	Window lift motor	(BN)
7	Window lift motor	(R)
8	Loudspeaker +	(Y-W)
9	Loudspeaker -	(W)
10	-	
11	-	

Connector C150 (11-pin) at B-post, driver's side

1	Central lock, unlocking	(R-W)
2	Central lock, locking	(BL-R)
3	Warning light door	(GN-R)
4	Warning light door	(W-SB)
5	Window lift motor ON/OFF	(P)
6	Window lift motor	(BN)
7	Window lift motor	(R)
8	Loudspeaker +	(Y-W)
9	Loudspeaker -	(W)
10	-	
11	-	



7/41 High-pressure sensor, A/C

7/43 Thermostat, driver's seat  
7/44 Thermostat, passenger's seat  
7/47 PTC-resistor, air pre-heating  
7/50 Pressure sensor, intake manifold  
7/52 Temperature sensor, intake air  
7/53 Low-pressure sensor, A/C  
7/69 Ambient temperature sensor  
7/75 Bulb malfunction indicator  
8/1 Operating solenoid, overdrive  
8/2 Solenoids, ECC  
8/3 Solenoid coupling, A/C  
8/5 Idle air control (IAC) valve  
8/6-9 Injection valves  
8/13 Fuel valve, diesel  
8/15 Hydraulic unit, ABS  
8/17 Converter, EGR  
8/24 3-way valve, EGR  
8/30 Steering wheel module, SRS (airbag)  
8/33 Igniter for left seat belt tensioner  
8/34 Igniter for right seat belt tensioner  
8/36 Solenoid P-shift lock  
8/42 Solenoid, pulsed secondary air injection (PAIR)  
9/1 Cigar lighter  
9/2 Heated rear window  
9/3 Heater element, driver's seat backrest  
9/4 Heater element, passenger's seat backrest  
9/5 Heater element, driver's seat cushion  
9/6 Heater element, passenger's seat cushion  
10/5 Left front foglight  
10/6 Right front foglight  
10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

10/54 Bulb, left rear turn signal

10/55 Left backup (reversing) light

10/64 Right high beam

10/65 Right extra high beam







Refer to "Accessories and Optional Equipment : Antitheft and Alarm Systems : Diagrams : Electrical".

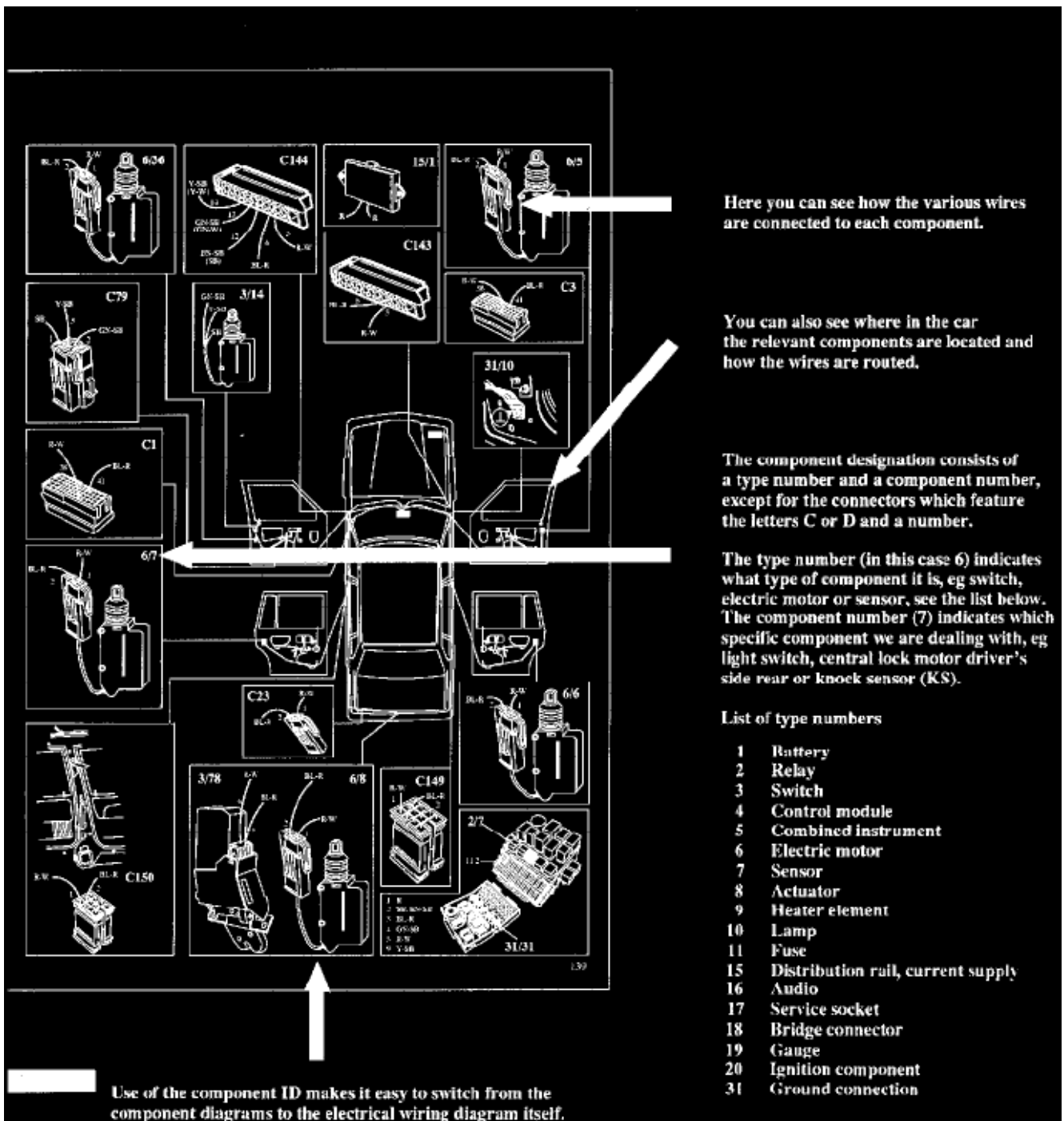


Diagram Information

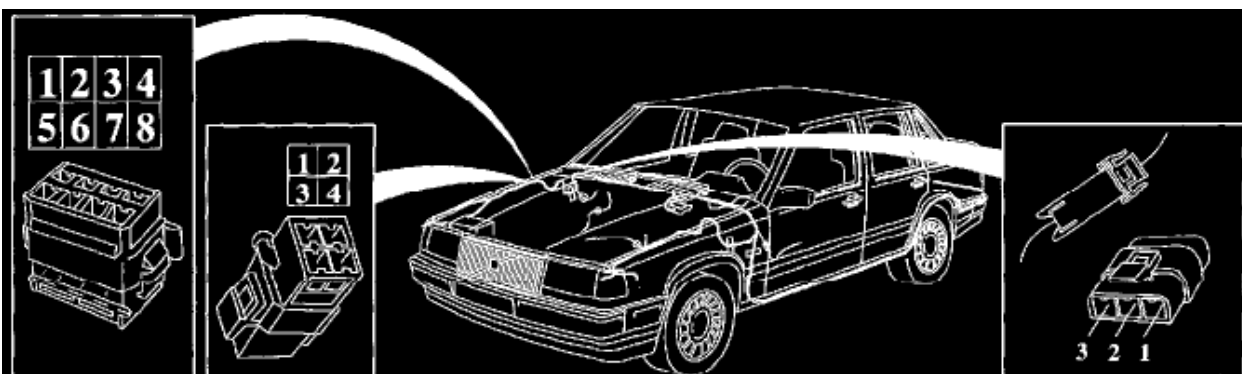
Complete Component List

No. Component Name

1/1 Battery

2/2 Relay, front foglights  
2/3 Regulator DIM-DIP  
2/4 Intermittent relay, windshield wipers  
2/5 Relay, seat belt reminder/ignition key warning  
2/6 Bypass relay 151  
2/7 Central locking relay  
2/8 Overdrive relay  
2/10 Power unit ECC  
2/11 Relay, engine cooling fan  
2/12 Relay, radio interference suppression  
2/13 Relay, fuel injection (MFI)  
2/14 Relay, glowplug mechanism  
2/15 Relay, exhaust gas temperature sensor  
2/16 Tailgate intermittent wiper relay  
2/23 Relay, fuel injection





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
---	---------------------------------	--------

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)







10/68 Left high beam

10/69 Left extra high beam

10/70 Left low beam

10/72 Ashtray lighting, front

10/74 Indicator light, exhaust gas temperature

10/75 Indicator light, charge pressure, turbodiesel

10/76 Indicator light, diesel preheating

10/77 Indicator light, SRS (airbag)

10/78 Indicator light, seat belt

10/79 Indicator light, overdrive (auto.)/Gear selection indicator

10/80 Indicator light, overdrive (man.)

10/82 indicator light, ABS

10/83 Indicator light, parking brake

10/84 Indicator light, brake warning

10/85 Indicator light, high beam

10/86 Indicator light, oil pressure

10/87 Indicator light, charge

10/88 Indicator light, bulb failure

10/89 Indicator light, rear foglights

10/90 Indicator light, washer fluid level

10/91 Service indicator

10/92 Indicator light, trailer

10/93 Indicator light, malfunction indicator lamp (MIL)

10/94 Indicator light, right turn signal

10/95 Indicator light, left turn signal

10/96 Instrument lighting

10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side

Components 11/1 - 20/18

No. Component Name

11/1-26 Fuses 11/41

Fuse, combined instrument

15/1 Positive terminal

15/2 30-rail in el. distribution unit

15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil



7/41 High-pressure sensor, A/C

7/43 Thermostat, driver's seat  
7/44 Thermostat, passenger's seat  
7/47 PTC-resistor, air pre-heating  
7/50 Pressure sensor, intake manifold  
7/52 Temperature sensor, intake air  
7/53 Low-pressure sensor, A/C  
7/69 Ambient temperature sensor  
7/75 Bulb malfunction indicator  
8/1 Operating solenoid, overdrive  
8/2 Solenoids, ECC  
8/3 Solenoid coupling, A/C  
8/5 Idle air control (IAC) valve  
8/6-9 Injection valves  
8/13 Fuel valve, diesel  
8/15 Hydraulic unit, ABS  
8/17 Converter, EGR  
8/24 3-way valve, EGR  
8/30 Steering wheel module, SRS (airbag)  
8/33 Igniter for left seat belt tensioner  
8/34 Igniter for right seat belt tensioner  
8/36 Solenoid P-shift lock  
8/42 Solenoid, pulsed secondary air injection (PAIR)  
9/1 Cigar lighter  
9/2 Heated rear window  
9/3 Heater element, driver's seat backrest  
9/4 Heater element, passenger's seat backrest  
9/5 Heater element, driver's seat cushion  
9/6 Heater element, passenger's seat cushion  
10/5 Left front foglight  
10/6 Right front foglight  
10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

10/54 Bulb, left rear turn signal

10/55 Left backup (reversing) light

10/64 Right high beam

10/65 Right extra high beam





6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

Components 7/4 - 9/6

No. Component Name

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI)system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan

7/41 High-pressure sensor, A/C

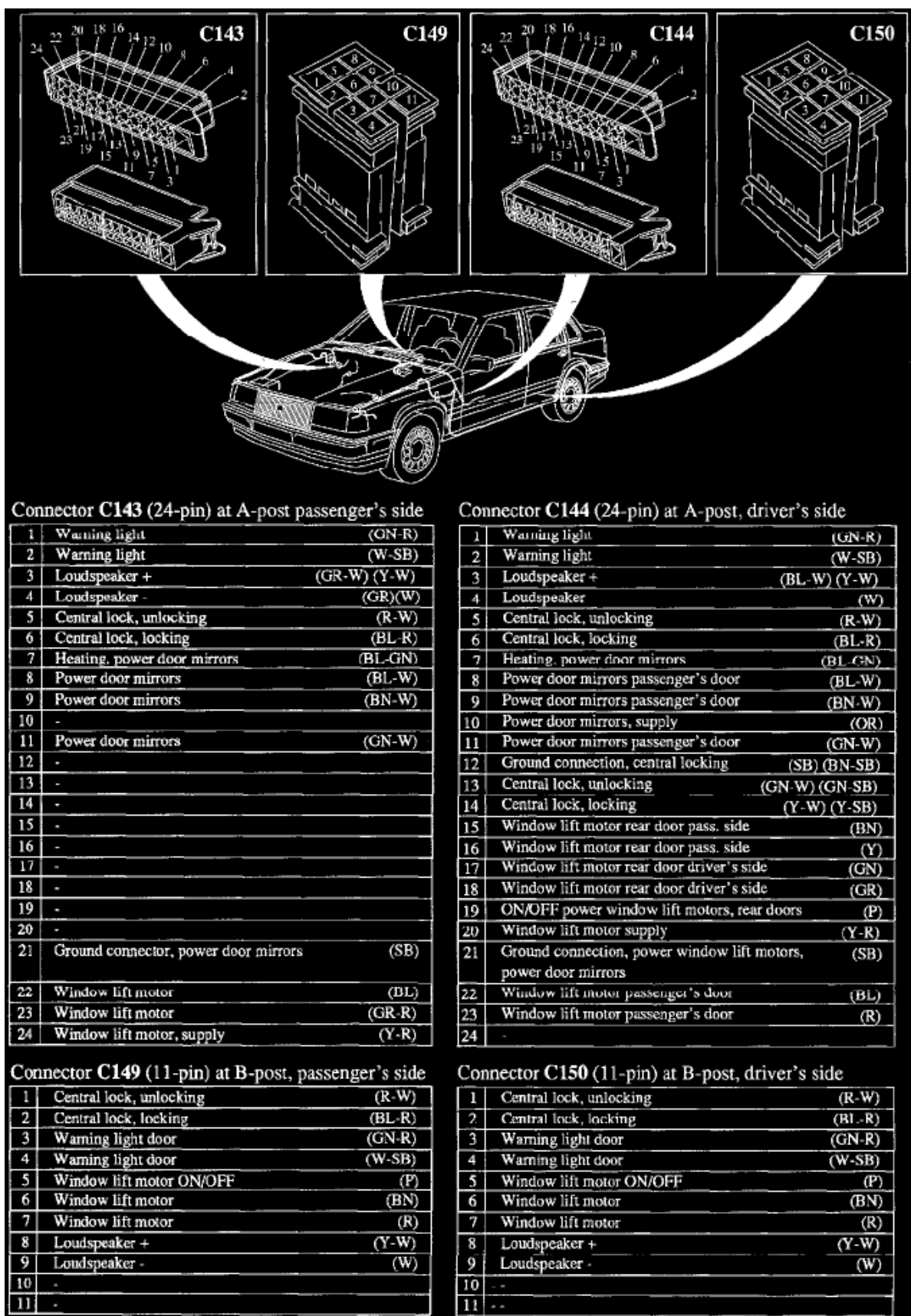
7/43 Thermostat, driver's seat

7/44 Thermostat, passenger's seat

7/47 PTC-resistor, air pre-heating

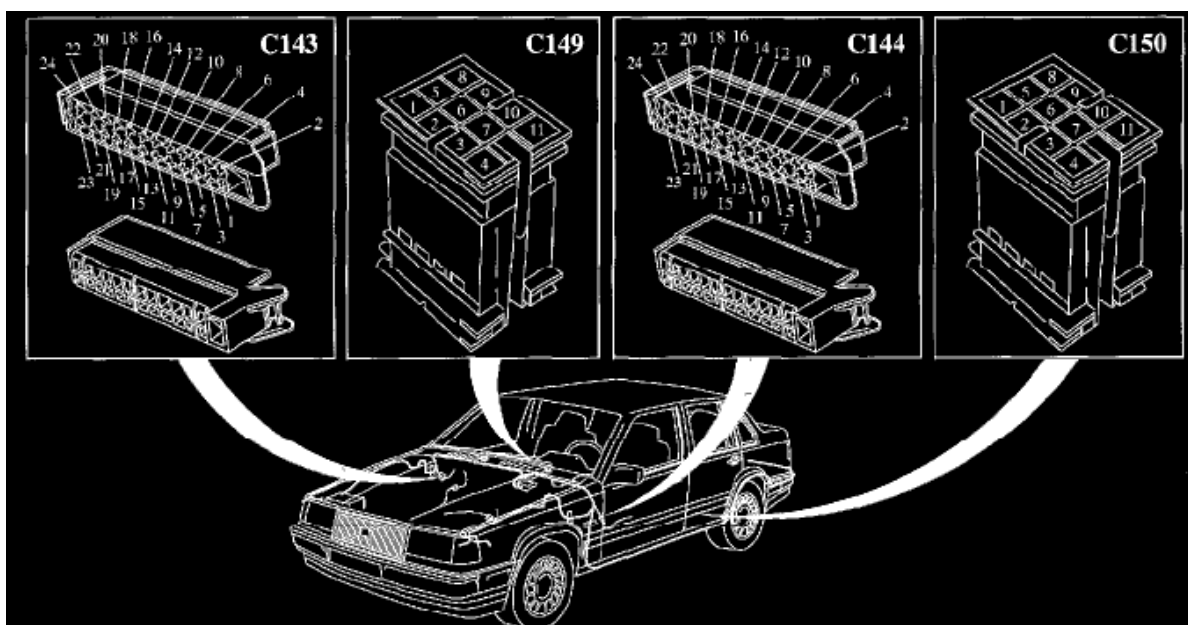
7/50 Pressure sensor, intake manifold





Connectors For Doors





Connector C143 (24-pin) at A-post passenger's side

1	Warning light	(GN-R)
2	Warning light	(W-SB)
3	Loudspeaker +	(GR-W) (Y-W)
4	Loudspeaker -	(GR)(W)
5	Central lock, unlocking	(R-W)
6	Central lock, locking	(BL-R)
7	Heating, power door mirrors	(BL-GN)
8	Power door mirrors	(BL-W)
9	Power door mirrors	(BN-W)
10	-	
11	Power door mirrors	(GN-W)
12	-	
13	-	
14	-	
15	-	
16	-	
17	-	
18	-	
19	-	
20	-	
21	Ground connector, power door mirrors	(SB)
22	Window lift motor	(DL)
23	Window lift motor	(GR-R)
24	Window lift motor, supply	(Y-R)

Connector C144 (24-pin) at A-post, driver's side

1	Warning light	(GN-R)
2	Warning light	(W-SB)
3	Loudspeaker +	(BL-W) (Y-W)
4	Loudspeaker -	(W)
5	Central lock, unlocking	(R-W)
6	Central lock, locking	(BL-R)
7	Heating, power door mirrors	(BL-GN)
8	Power door mirrors passenger's door	(BL-W)
9	Power door mirrors passenger's door	(BN-W)
10	Power door mirrors, supply	(OR)
11	Power door mirrors passenger's door	(GN-W)
12	Ground connection, central locking	(SB) (BN-SB)
13	Central lock, unlocking	(GN-W) (GN-SB)
14	Central lock, locking	(Y-W) (Y-SB)
15	Window lift motor rear door pass. side	(BN)
16	Window lift motor rear door pass. side	(Y)
17	Window lift motor rear door driver's side	(GN)
18	Window lift motor rear door driver's side	(GR)
19	ON/OFF power window lift motors, rear doors	(P)
20	Window lift motor supply	(Y-R)
21	Ground connection, power window lift motors, power door mirrors	(SB)
22	Window lift motor passenger's door	(BL)
23	Window lift motor passenger's door	(R)
24	-	

Connector C149 (11-pin) at B-post, passenger's side

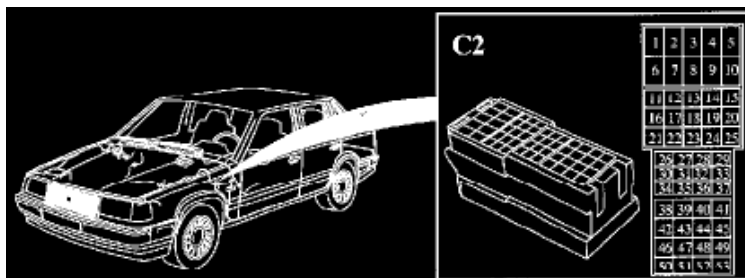
1	Central lock, unlocking	(R-W)
2	Central lock, locking	(BL-R)
3	Warning light door	(GN-R)
4	Warning light door	(W-SB)
5	Window lift motor ON/OFF	(P)
6	Window lift motor	(BN)
7	Window lift motor	(R)
8	Loudspeaker +	(Y-W)
9	Loudspeaker -	(W)
10	-	
11	-	

Connector C150 (11-pin) at B-post, driver's side

1	Central lock, unlocking	(R-W)
2	Central lock, locking	(BL-R)
3	Warning light door	(GN-R)
4	Warning light door	(W-SB)
5	Window lift motor ON/OFF	(P)
6	Window lift motor	(BN)
7	Window lift motor	(R)
8	Loudspeaker +	(Y-W)
9	Loudspeaker -	(W)
10	-	
11	-	







Black connector C2 (53-pin)  
Instrument panel harness - left wheel housing harness

B 230 F REX-I		
1	Starter motor 50	(BL-GN)
2	High beam left	(BL-W)
3	Low beam left	(GN)
4	Horn + Windshield wiper motor pos. 1 Headlight wiper motor (not USA/CDN)	(Y)
5	Windshield wiper motor pos. 2	(GR)
6	Windshield wiper motor pos. 3	(GN-W)
7	Windshield wiper motor pos. 4	(OR)
8	Front foglights	(W-SB)
9	Control module REX-I (DI) pos. 5	(BN)
10	-	
11	On-board diagnostic (OBD) socket B pos. 5	(GR-OR)
12	On-board diagnostic (OBD) socket A pos. 5	(BL-P)
13	Turn signal, left	(GN)
14	Parking light, left	(W)
15	-	
16	Oil pressure sensor	(SB)
17	Horn -	(BL-SB)
18	Headlight wiper motor (not USA/CDN) Windshield washer motor	(BL-R)
19	Brake fluid level sensor	(VO)
20	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)
22	Generator D+	(R)
23	On-board diagnostic (OBD) socket B pos. 6	(BL-W)
24	Service socket	(P)
25	On-board diagnostic (OBD) socket A pos. 2	(GN-W)
26	Control module REX-I (DI) pos. 3	(BN-W)
27	Power amplifier/ignition coil REX-I (DI) pos. C	(R-W)
28	On-board diagnostic (OBD) socket A pos. 4 Control module REX-I (DI) pos. 6 Power amplifier/ignition coil REX-I (DI) pos. A	(BL)
29	Control module REX-I (DI) pos. 17	(Y-GR)
30	-	
31	-	
32	Washer fluid level sensor	(R-SB)
33	Washer motor, tailgate	(BL-Y)
34	Door switch	(BN-SB)
35	Door switch	(W-SB)
36	-	
37	-	
38	Ambient temperature sensor	(GN-Y)
39	Ambient temperature sensor	(GN-R)
40	Anti-theft alarm, connector D4 pos. 1	(GR-W)
41	Anti-theft alarm, connector D4 pos. 2	(BN-P)
42	Control module cruise control pos. 10	(BN-GR)
43	Control module cruise control pos. 2	(P-SB)
44	Control module cruise control pos. 7	(BN-OR)
45	Control module cruise control pos. 11	(BL-OR)
46	Control module cruise control pos. 6	(BL-GR)
47	Control module cruise control pos. 4	(OR-W)
48	Control module cruise control pos. 3	(OR-SB)
49	Control module cruise control pos. 13	(GN-OR)
50	-	
51	-	
52	-	
53	-	

Connector At Left A-post



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	



### B 230 F, REX-I

### D24/D24TIC

#### Connector C50 (8-pin)

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

#### Connector C51 (8-pin)

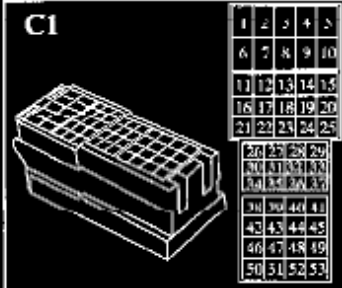
1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C117 (2-pin)

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	

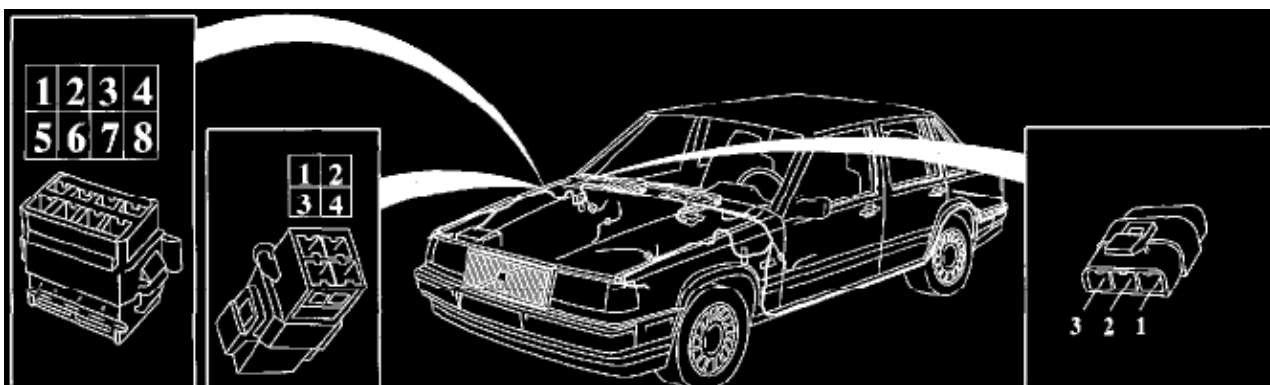


White connector C1 (53-pin)  
Instrument panel harness - sill harness

all models	
1	Tail lights (BN-W)
2	Tail lights (R)
3	Brake light, left (Y-R)
4	Brake light, right (Y)
5	Backup (reversing) lights (SB)
6	Number plate lights (W)
7	Turn signal, left rear (GN)
8	Turn signal, right rear (BL-GN)
9	Fuel level sensor/primer pump (pump) (GR-W)
10	Heated rear window (Y)
11	Sensor, speedometer - (BN-W)
12	Sensor, speedometer + (GN-W)
13	Door switch, pre-routed interior lighting (W-SB)
14	Towing hook pos. 10 (BL-GN)
15	Rear foglights (GR)
16	Fuel level sensor/primer pump (pump) (BN)
17	Fuel level sensor/primer pump (pump) (P)
18	Extra brake light (Y-SB)
19	Tailgate wiper (OR)
20	Tailgate wiper (Y-W)
21	Power antenna pos. 3 (GN-GR)
22	-
23	-
24	Ground connector, left A-post (BN-GR)
25	Towing hook pos. 9 (W-SB)
26	Towing hook pos. 7 (W)
27	Towing hook pos. 5 (GR)
28	Towing hook pos. 6 (Y-BN)
29	Door-open warning light, left rear Interior lighting Trunk light Power antenna pos. 1 (GN-R)
30	Interior lighting (BN-SB)
31	Connector, tailgate/trunk (anti-theft alarm) (BN-OR)
32	-
33	Loudspeaker rear parcel shelf right side + (GN-BN)
34	Loudspeaker rear parcel shelf right side - (GN)
35	Loudspeaker left rear door + Loudspeaker rear parcel shelf left side + (Y-W)
36	Loudspeaker left rear door - Loudspeaker rear parcel shelf left side - (W)
37	-
38	Central locking, rear door Central locking, tailgate/trunk (R-W)
39	-
40	-
41	Central locking, rear door Central locking, tailgate/trunk (BL-R)
42	-
43	-
44	-
45	-
46	-
47	-
48	-
49	-
50	Power window lift motor, rear door (GN)
51	Power window lift motor, rear door (GR)
52	-
53	Power window lift motor, rear door ON/OFF (P)

Connector At Left A-post





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102 Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, at el. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components C/1 - D7

No. Component Name

C1 Connector, 53-pin

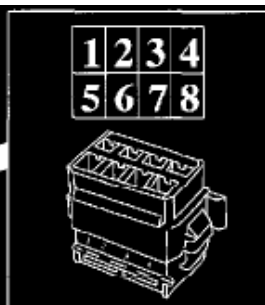
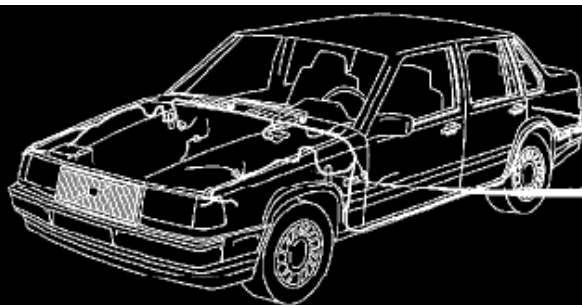
Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin





### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor (SB)	Oil pressure sensor	(SB)
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20	(BN)
4	Generator D+ (R)	Generator D+	(R)
5	Starter motor 50 (BL-GN)	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1	(OR)
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1	(R-W)
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier IZK (DI) (SB) California: Ground, ICM pos. 14	(SB)
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California)	(Y-SB)
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15	(BL)
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1	(GN)
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2	(SB)
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment



7/41 High-pressure sensor, A/C



7/43 Thermostat, driver's seat  
7/44 Thermostat, passenger's seat  
7/47 PTC-resistor, air pre-heating  
7/50 Pressure sensor, intake manifold  
7/52 Temperature sensor, intake air  
7/53 Low-pressure sensor, A/C  
7/69 Ambient temperature sensor  
7/75 Bulb malfunction indicator  
8/1 Operating solenoid, overdrive  
8/2 Solenoids, ECC  
8/3 Solenoid coupling, A/C  
8/5 Idle air control (IAC) valve  
8/6-9 Injection valves  
8/13 Fuel valve, diesel  
8/15 Hydraulic unit, ABS  
8/17 Converter, EGR  
8/24 3-way valve, EGR  
8/30 Steering wheel module, SRS (airbag)  
8/33 Igniter for left seat belt tensioner  
8/34 Igniter for right seat belt tensioner  
8/36 Solenoid P-shift lock  
8/42 Solenoid, pulsed secondary air injection (PAIR)  
9/1 Cigar lighter  
9/2 Heated rear window  
9/3 Heater element, driver's seat backrest  
9/4 Heater element, passenger's seat backrest  
9/5 Heater element, driver's seat cushion  
9/6 Heater element, passenger's seat cushion  
10/5 Left front foglight  
10/6 Right front foglight  
10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

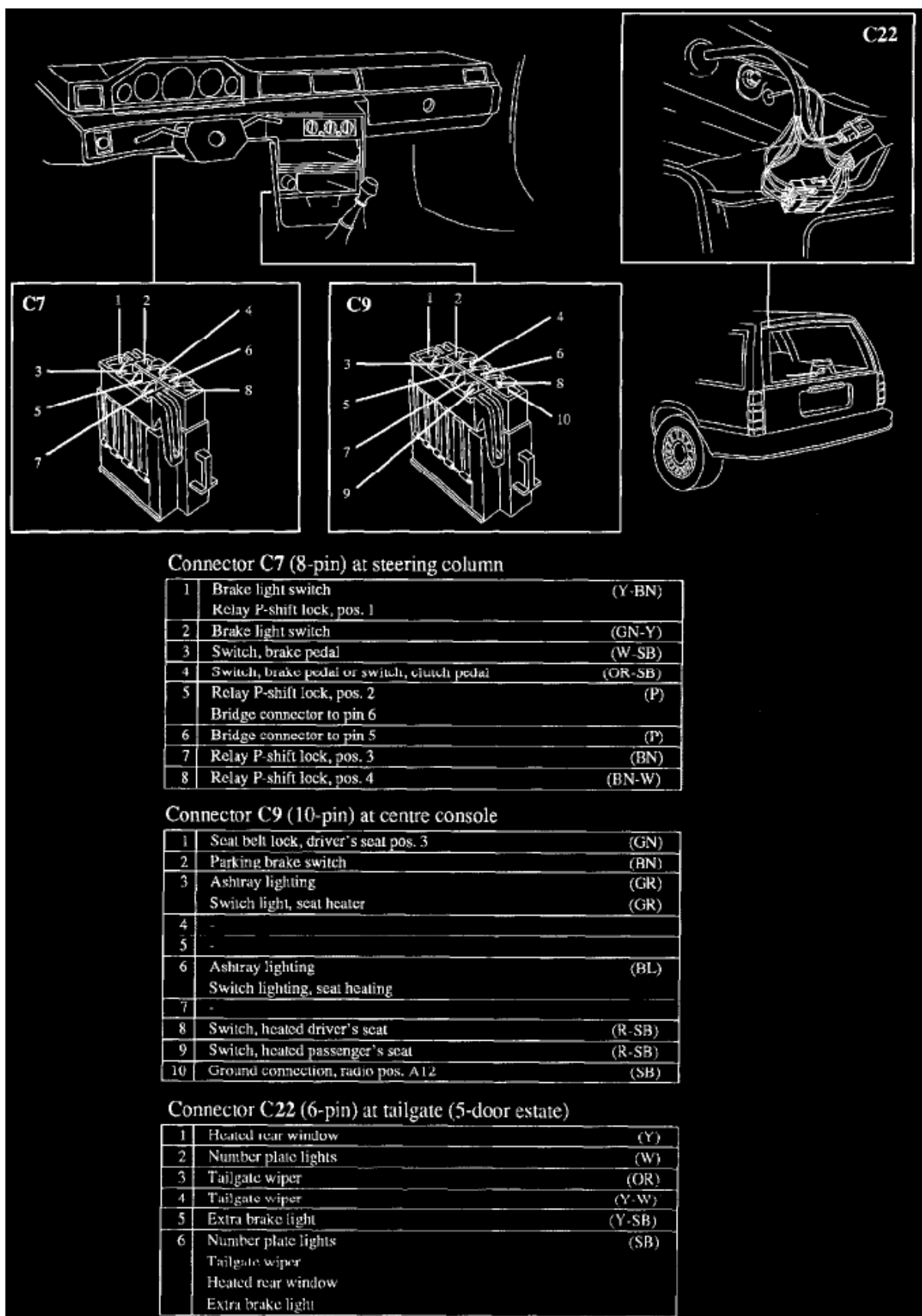
10/54 Bulb, left rear turn signal

10/55 Left backup (reversing) light

10/64 Right high beam

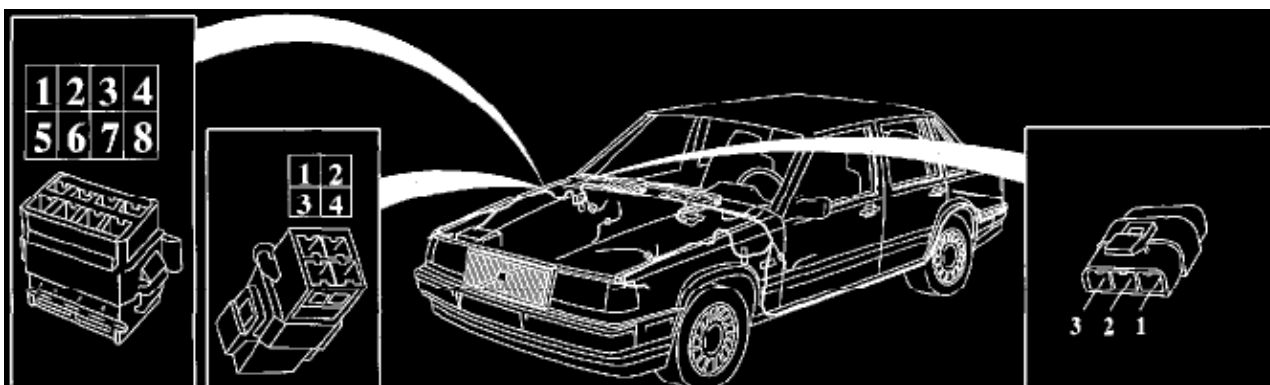
10/65 Right extra high beam





Connectors





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

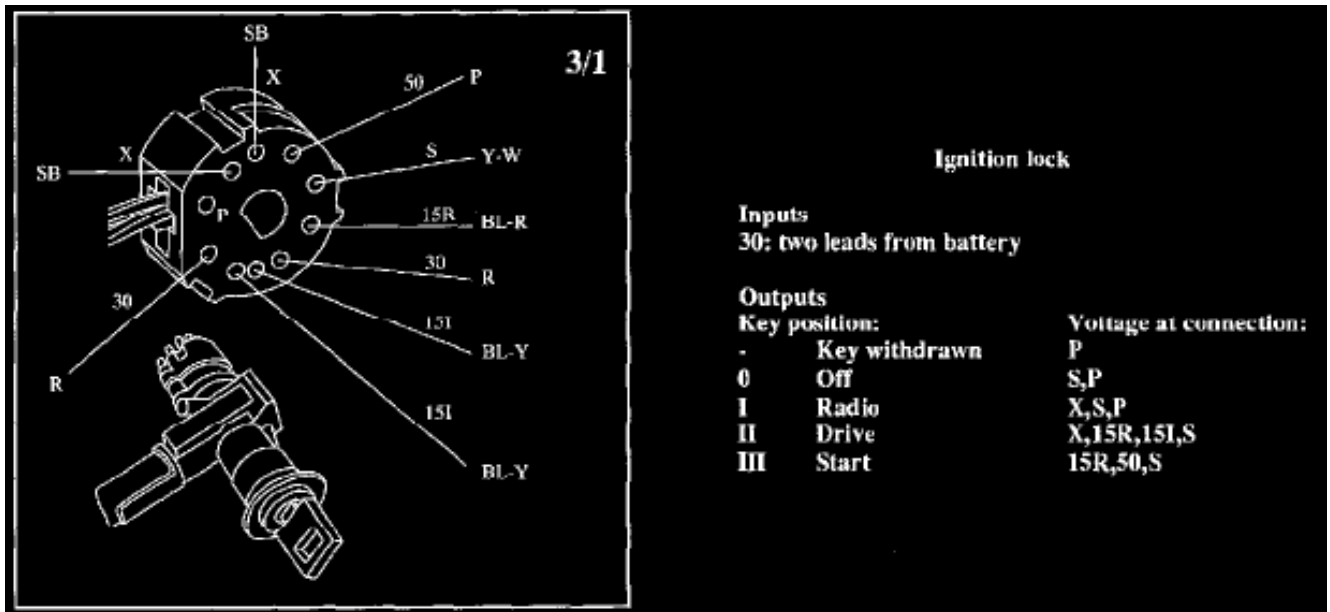
1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



Connector, Ignition Lock

Fuse Rating / Circuit Assignment - Electrical Distribution Unit





C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102 Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, at el. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components C/1 - D7

No. Component Name

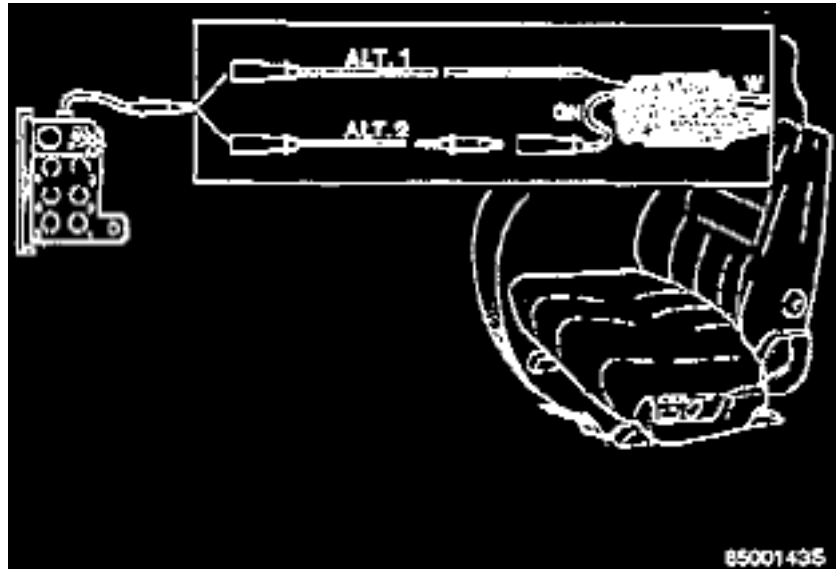
C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin



### Method For Version 3 (C)

Applies to: 940, 1993 4-door models as from chassis No. 114465 5-door models as from chassis No. 066167

#### Note:

Unlike earlier models, the power seats in the above models can be operated with the ignition off.

Procedures in Part I are valid for cars built up to chassis numbers listed below. Procedures for Part II are valid for cars after these chassis numbers:

#### 4 door models:

124126 Factory Code 0 123549 Factory Code 1 123609 Factory Code 3 122175 Factory Code A

#### 5 door models:

073706 Factory Code 0 074106 Factory Code 1 074202 Factory Code 3 072508 Factory Code A

#### C1 -

Switch off ignition.

#### C2

I. - Manual fault tracing/calibration: Connect auxiliary lead (alternative 1 or 2 as illustrated) between connector at front of seat to be tested and test lead on DLC A.

- Fault tracing/calibration using VST with OBD System Memory Cassette: Connect auxiliary lead to terminal 6 on the VST adapter cable.

II. - Manual fault tracing/calibration: Connect test lead from DLC A to socket 6 on DLC B.

- Fault tracing/calibration using VST with OBD System Memory Cassette: Connect instrument to DLC B.

C3

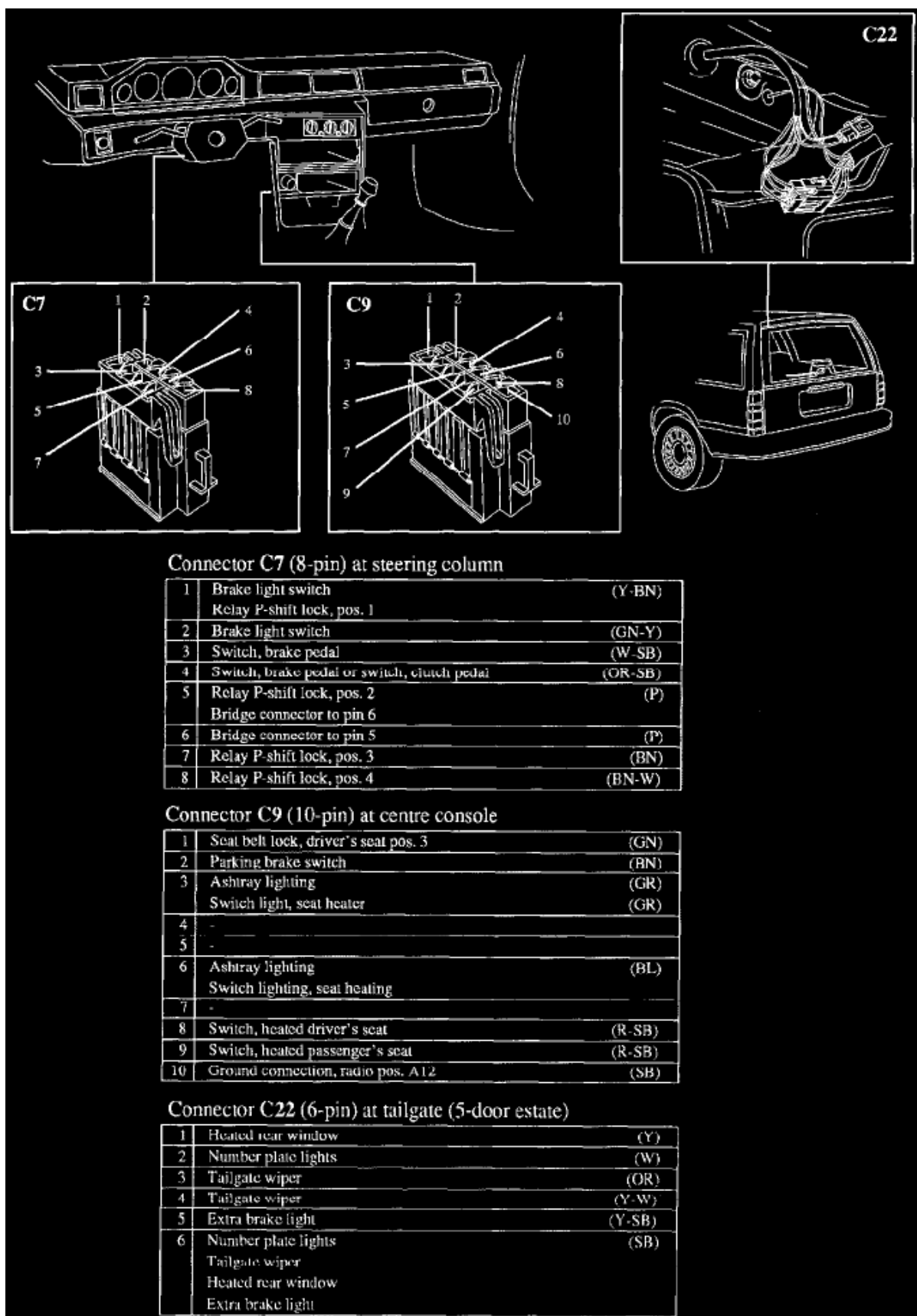
- Remove fuse No. 3

Fusebox is located behind ashtray in center console, in front of gear lever.

C4

Ignition must be off for at least 5 seconds before performing this step.

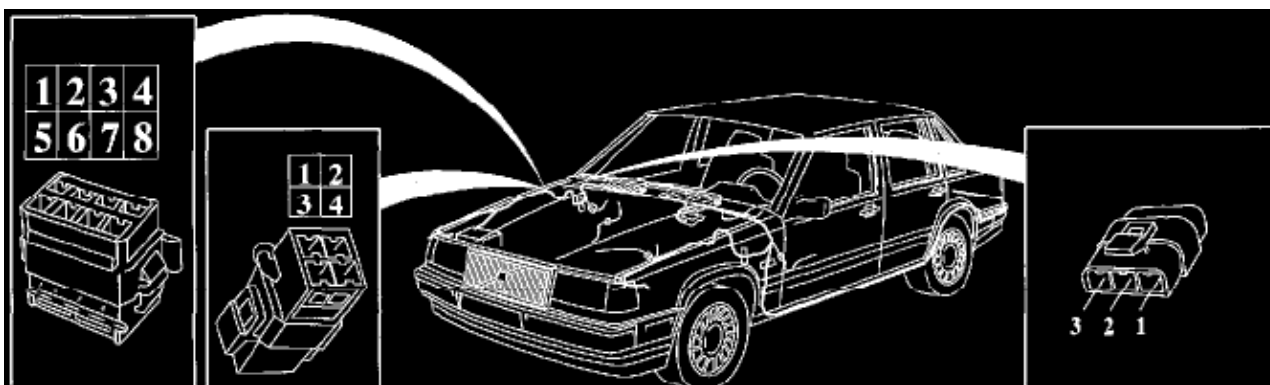




Connectors







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

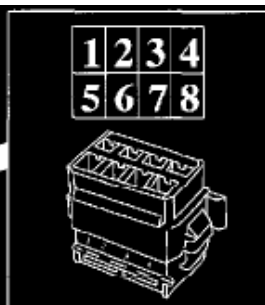
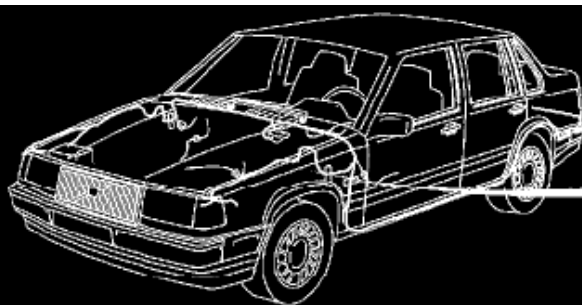
#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor (SB)	Oil pressure sensor	(SB)
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20	(BN)
4	Generator D+ (R)	Generator D+	(R)
5	Starter motor 50 (BL-GN)	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1	(OR)
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

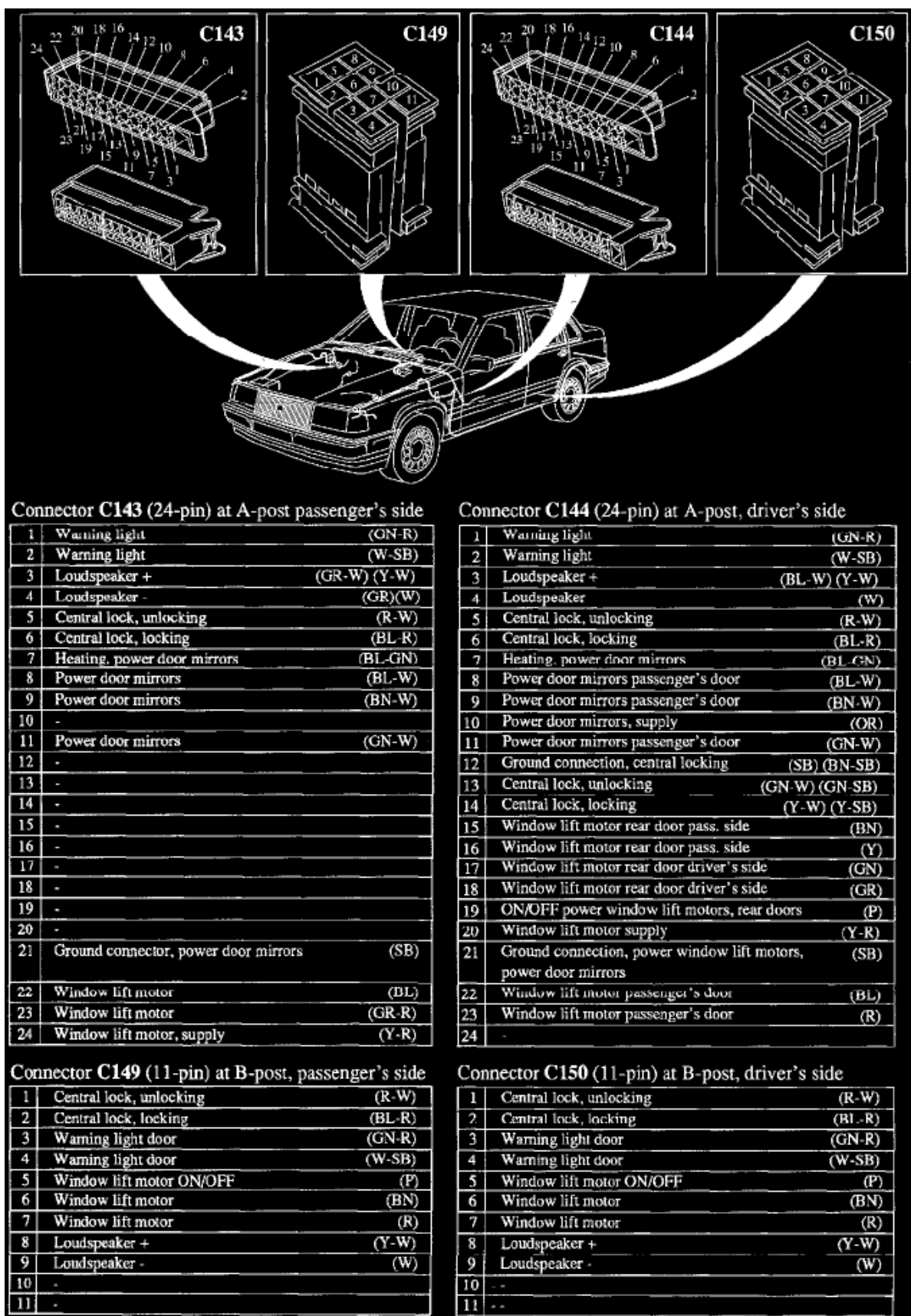
#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1	(R-W)
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier IZK (DI) California: Ground, ICM pos. 14	(SB)
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California)	(Y-SB)
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15	(BL)
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1	(GN)
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2	(SB)
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment

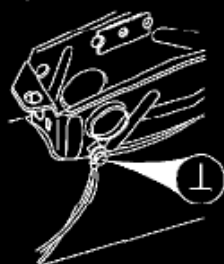




Connectors For Doors

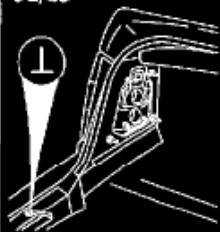


31/9

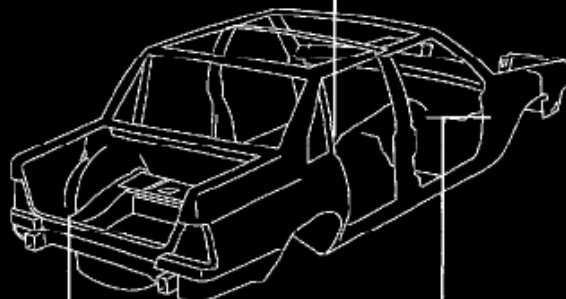


Power seats  
Parking brake switch  
Heated seats  
Seat belt lock, driver's seat

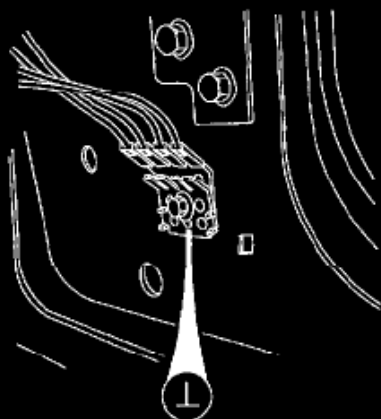
31/13



Fuel primer pump (LH 2.4) (MFI)  
Fuel pump (Regina) (MFI)  
Tail lights  
Number plate lighting  
Trunk lighting  
Extra brake light  
Power antenna  
Interior lighting  
Reading lamps  
Towing hook  
C/D-autochanger



31/10



Cabin fan  
Ground connection rail in electrical distribution unit  
Bulb malfunction indicator  
Flasher unit  
Intermittent relay, wipers  
Headlight relay  
Power sunroof  
Overdrive relay  
Central lock motors  
Power door mirrors  
Power windows  
Bypass relay 15I (window lifts/seat heaters)  
(Accessories)  
Central lock relay  
Relay, seat belt reminder  
Cigar lighter  
Radio  
Glove compartment lighting  
Separate amplifier, radio  
Fuel pump (LH 2.4) (MFI)  
Fog light switch  
Combined instrument  
Fuel gauge  
Electronic climate unit ECC  
Control module DIM-DIP  
Right turn signal side repeater  
Bypass relay, high beam  
Control lighting  
Vanity mirror light  
Relay, exhaust gas temp. sensor (Japan)  
Relay, P-shift lock  
Beam width control  
Switch, heated rear window/door mirrors  
Switch, power door mirrors  
Ambient air temperature gauge  
Anti-theft alarm





**Black connector C2 (53-pin)**  
Instrument panel - left wheel housing

	B200F/FT, B230F/FA/FD/G/FT/GT-EZK (DI)	D24/D24TIC
1	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN) Relay, glowplug mechanism pos. 3
2	High beam, left (BL-W)	High beam, left (BL-W)
3	Low beam, left (GN)	Low beam, left (GN)
	Beam width control (Germany) (GN-BN)	Beam width control (Germany) (GN-BN)
4	Horn + (Y) Windshield wiper motor pos. 1 Headlight wiper motor (not USA/CDN)	Horn + (Y) Windshield wiper motor pos. 1 Headlight wiper motor
5	Windshield wiper motor pos. 2 (GR)	Windshield wiper motor pos. 2 (GR)
6	Windshield wiper motor pos. 3 (GN-W)	Windshield wiper motor pos. 3 (GN-W)
7	Windshield wiper motor pos. 4 (OR)	Windshield wiper motor pos. 4 (OR)
8	Front foglights (W-SB)	Front foglights (W-SB)
9	Control module EZK (DI) pos. 5 (not FT/GT) (BL) (BN)	Relay, glowplug mechanism pos. 4 Pos. 3, connector C51 at left suspension tower
10	B200FT, B230FT/GT: Battery + (BN) Relay, radio interference suppression pos. 4	
11	On-board diagnostic (OBD) socket B pos. 5 (GR-OR)	On-board diagnostic (OBD) socket B pos. 5 (GR-OR)
12	On-board diagnostic (OBD) socket A pos. 3 (BL-P)	On-board diagnostic (OBD) socket A pos. 3 (BL-P)
13	Turn signal, left (GN)	Turn signal, left (GN)
14	Parking lights, left (W)	Parking lights, left (W)
15	Beam width control (Germany) (GR)	Beam width control (Germany) (GR)
16	Oil pressure sensor (SB)	Oil pressure sensor (SB)
17	Horn - (BL-SB)	Horn - (BL-SB)
18	Headlight wiper motor (not USA/CDN) (BL-R) Windshield washer motor (not FT/GT)	Headlight wiper motor (BL-R)
19	Brake fluid level sensor (VO)	Brake fluid level sensor (VO)
20	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)
22	Generator D+ (R)	Generator D+ (R)
23	On-board diagnostic (OBD) socket B pos. 6 (BL-W)	On-board diagnostic (OBD) socket B pos. 6 (BL-W)
24	Service socket (P)	Service socket (P)
25	On-board diagnostic (OBD) socket A pos. 2 (GN-GR)(GN-W)	
26	Ignition Control Module (ICM) pos. 3 (BN-W)	
27	Power amplifier EZK (DI) pos. 1 (R-W) Ignition coil 1	Generator W (R-W)
28	Ignition Control Module (ICM) pos. 6 (BL) Power amplifier EZK (DI) pos. 4 On-board diagnostic (OBD) socket A pos. 4 Converter, EGR (B230FD and B230FT California)	On-board diagnostic (OBD) socket A pos. 4 (BL)
29	Ignition Control Module (ICM) pos. 17 (Y-GR)	
30	-	Pressure sensor, turbodiesel (D24TIC) (Y-R)
31	-	
32	B200FT, B230FT/GT: Ignition Control Module (ICM) pos. 5 (BN)(BN-W) Others: Washer fluid level sensor (R-SB)(BL-W)	
33	B200FT, B230FT/GT: Relay, radio interference suppression pos. 2 (BL-Y) Others: Wiper motor, tailgate	
34	Door switch (BN-SB)	Door switch (BN-SB)
35	Door switch (W-SB)	Door switch (W-SB)
36	-	
37	Ignition Control Module (ICM) pos. 4 (GR-R)	Relay, glowplug mechanism pos. 1 (GR)
38	Ambient temperature sensor (GN-Y)	Ambient temperature sensor (GN-Y)
39	Ambient temperature sensor (GN-R)	Ambient temperature sensor (GN-R)
40	Anti-theft alarm, connector D4 pos. 1 (GR-W)	Anti-theft alarm, connector D4 pos. 1 (GR-W)
41	Anti-theft alarm, connector D4 pos. 2 (BN-P)	Anti-theft alarm, connector D4 pos. 2 (BN-P)
42	Control module cruise control pos. 10 (BN-GR)	
43	Control module cruise control pos. 2 (P-SB)	
44	Control module cruise control pos. 7 (BN-OR)	
45	Control module cruise control pos. 11 (BL-OR)	
46	Control module cruise control pos. 6 (BL-GR)	
47	Control module cruise control pos. 4 (OR-W)	
48	Control module cruise control pos. 3 (OR-SB)	
49	Control module cruise control pos. 13 (GN-OR)	
50	B230FD: Solenoid valve, pulsed secondary air injection (PAIR) (BL-W)	
51	-	
52	-	
53	-	

Connector At Left A-post



Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness

# D24/D24TTC

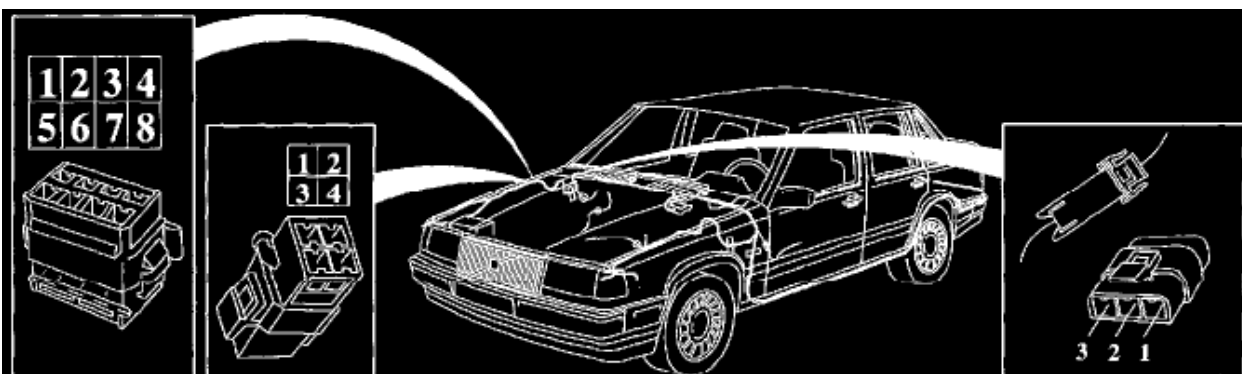
1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	Washer motor, tailgate	(BL-Y)
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	Front foglights	(W-SB)
14	-	
15	Headlight wiper motor	(Y)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor	(BL-R)
	Washer motor	
18	-	
19	-	
20	-	
21	-	
22	-	
23	-	
24	Washer fluid level sensor	(BL-W)
25	-	

Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - door sill harness

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeater	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)



C132 Connector, 8-pin



Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, ate. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components 1/1 - 3/70

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection

2/34 Relay, front foglights

2/36 Headlight flasher

2/37 Headlight relay

2/38 Timer relay, exhaust gas recirculation (EGR)

2/45 Relay, P-shift lock

2/50 Bypass relay, high beam

3/1 Ignition lock

3/2 Light switch

3/4 Cruise control operation

3/5 Switch, turn signal/high-low beam

3/6 Switch, hazard warning flashers

3/7 Foglight switch

3/8-1 Switch, heated rear window

3/8-2 Switch with timer relay, heated rear window/door mirrors

3/9 Brake light switch



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

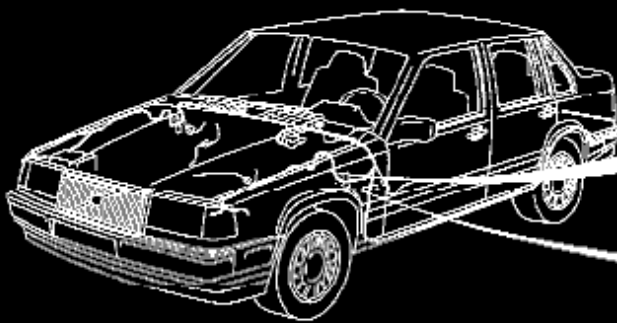
1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	



3/10 Backup (reversing) light switch

3/12 Switch, windshield wash/wipe

3/13 Switch, tailgate wash/wipe

3/14 Switch, lock button

3/15 Power window switch, driver's door for driver's door

3/16 Power window switch, driver's door for driver's side rear door

3/17 Power window switch, driver's door for passenger's side front

3/18 Power window switch, driver's door for passenger's side rear

3/19 Power window switch, driver's side rear

3/20 Power window switch, passenger's side front

3/21 Power window switch, passenger's side rear

3/22 Switch for rear power window lifts

3/23 Switch for power door mirror, driver's side

3/24 Switch for power door mirror, passenger's side

3/25 Switch for power sunroof

3/26 Operating module, driver's seat

3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

Components 4/1 - 6/39

No. Component Name

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 Control module LH-jetronic 2.4 (MFI) system

4/25 Control module Regina (MFI) system

4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

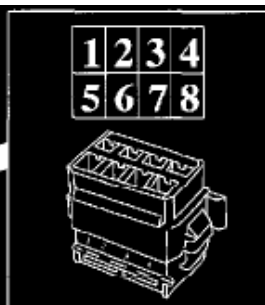
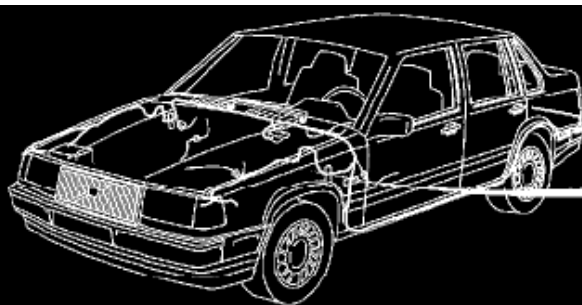
5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front







### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)	-	
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
8	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
9	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	



7/52 Temperature sensor, intake air

7/53 Low-pressure sensor, A/C

7/69 Ambient temperature sensor

7/75 Bulb malfunction indicator

8/1 Operating solenoid, overdrive

8/2 Solenoids, ECC

8/3 Solenoid coupling, A/C

8/5 Idle air control (IAC) valve

8/6-9 Injection valves

8/13 Fuel valve, diesel

8/15 Hydraulic unit, ABS

8/17 Converter, EGR

8/24 3-way valve, EGR

8/30 Steering wheel module, SRS (airbag)

8/33 Igniter for left seat belt tensioner

8/34 Igniter for right seat belt tensioner

8/36 Solenoid P-shift lock

8/42 Solenoid, pulsed secondary air injection (PAIR)

9/1 Cigar lighter

9/2 Heated rear window

9/3 Heater element, driver's seat backrest

9/4 Heater element, passenger's seat backrest

9/5 Heater element, driver's seat cushion

9/6 Heater element, passenger's seat cushion

Components 10/5 - 10/115

No. Component Name

10/5 Left front foglight

10/6 Right front foglight

10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

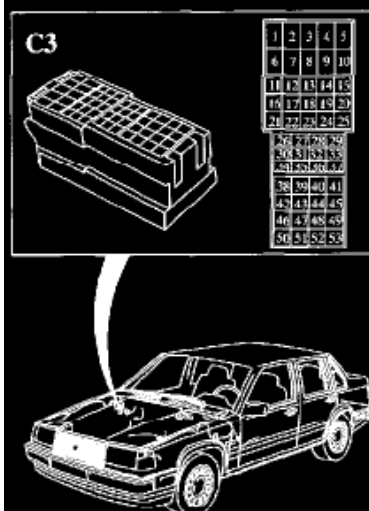
10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)  
10/16 Right turn signal repeater (not USA/CDN)  
10/19 Extra brake light  
10/20 Left number plate light  
10/21 Right number plate light  
10/22 Roof light  
10/24 Trunk light  
10/25 Roof light, load area (5-door)  
10/29 Glove compartment light  
10/30 Door-open warning light, driver's door  
10/31 Door-open warning light, front passenger's side  
10/32 Door-open warning light, rear driver's side  
10/33 Door-open warning light, rear passenger's side  
10/36 Control panel lighting  
10/38 Ashtray lighting, rear  
10/39 Switch lighting, seat heater  
10/40 Gear selector lighting  
10/43 Right brake light  
10/44 Right parking light, rear  
10/45 Right parking/tail light  
10/46 Right rear foglight  
10/47 Bulb, right rear turn signal  
10/48 Right backup (reversing) light  
10/50 Left brake light  
10/51 Left parking light, rear  
10/52 Left parking/tail light  
10/53 Left rear foglight  
10/54 Bulb, left rear turn signal  
10/55 Left backup (reversing) light  
10/64 Right high beam  
10/65 Right extra high beam





Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness



Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - sill harness

# B200F/G/FT, B230F/FB/FD/G/FT/GT

1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	B200FT, B230FT/GT: Washer motor, tailgate Others: L/H/Regina control module (MFI) pos. 30	(BL-Y) (P-W)
6	B200FT, B230FT/GT: LH (MFI) control module pos. 12 Others with EZK (DI): Ignition coil 15	(GN-GR) (BL)
7	B200FT, B230FT/GT: LH (MFI) control module pos. 30 Others: Battery + Relay, radio interference suppression pos. 2 and 4	(BN)   
8	Oxygen sensor (HO2S) heating	(P)
9	LH/Regina control module (MFI) pos. 9 Idle air control (IAC) valve pos. 1 Relay, radio interference suppression pos. 2 (not FT/GT) Mass air flow sensor (MAF) pos. 5 B200FT, B230FT/GT: PTC-resistor	(BL-Y)      
10	LH/Regina control module (MFI) pos. 35	(BL)
11	LH/Regina control module (MFI) pos. 22	(BN-W)
12	LH/Regina control module (MFI) pos. 4	(BN) (W)
13	Front foglights	(W-SB)
14	LH/Regina control module (MFI) pos. 20	(Y-SB)
15	Headlight wiper motor (not USA/CDN) LH/Regina control module (MFI) pos. 26 (USA/CDN)	(Y) (W-SB)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor (not USA, CDN) B230FT USA, CDN: Washer motor B200FT, B230FT/GT EU/AS: Headlight wiper motor Washer motor	(BL-R)     
18	LH/Regina control module (MFI) pos. 1	(Y-GR)
19	LH control module (MFI) pos. 28	(GR-R)
20	-	
21	LH control module (MFI) pos. 15	(GN-Y)
22	LH/Regina control module (MFI) pos. 21	(R)
23	-	
24	B200FT, B230FT/GT: Washer fluid level sensor Others: LH/Regina control module (MFI) pos. 12	(BL-W)   (GN-W)
25	LH/Regina control module (MFI) pos. 34	(VO-W)

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(W-SB) (BN-SB) (BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeaters	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post



C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, ate. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components 1/1 - 3/70

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection

2/34 Relay, front foglights

2/36 Headlight flasher

2/37 Headlight relay

2/38 Timer relay, exhaust gas recirculation (EGR)

2/45 Relay, P-shift lock

2/50 Bypass relay, high beam

3/1 Ignition lock

3/2 Light switch

3/4 Cruise control operation

3/5 Switch, turn signal/high-low beam

3/6 Switch, hazard warning flashers

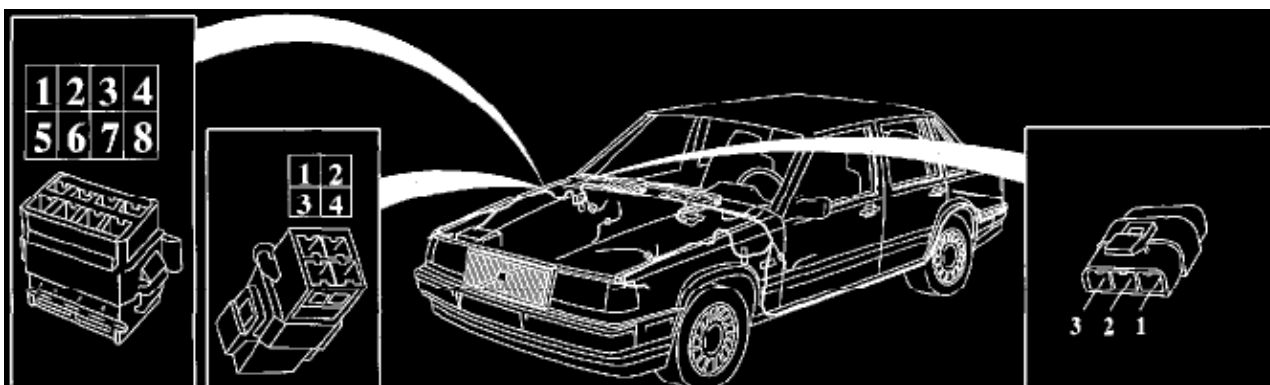
3/7 Foglight switch

3/8-1 Switch, heated rear window

3/8-2 Switch with timer relay, heated rear window/door mirrors

3/9 Brake light switch





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

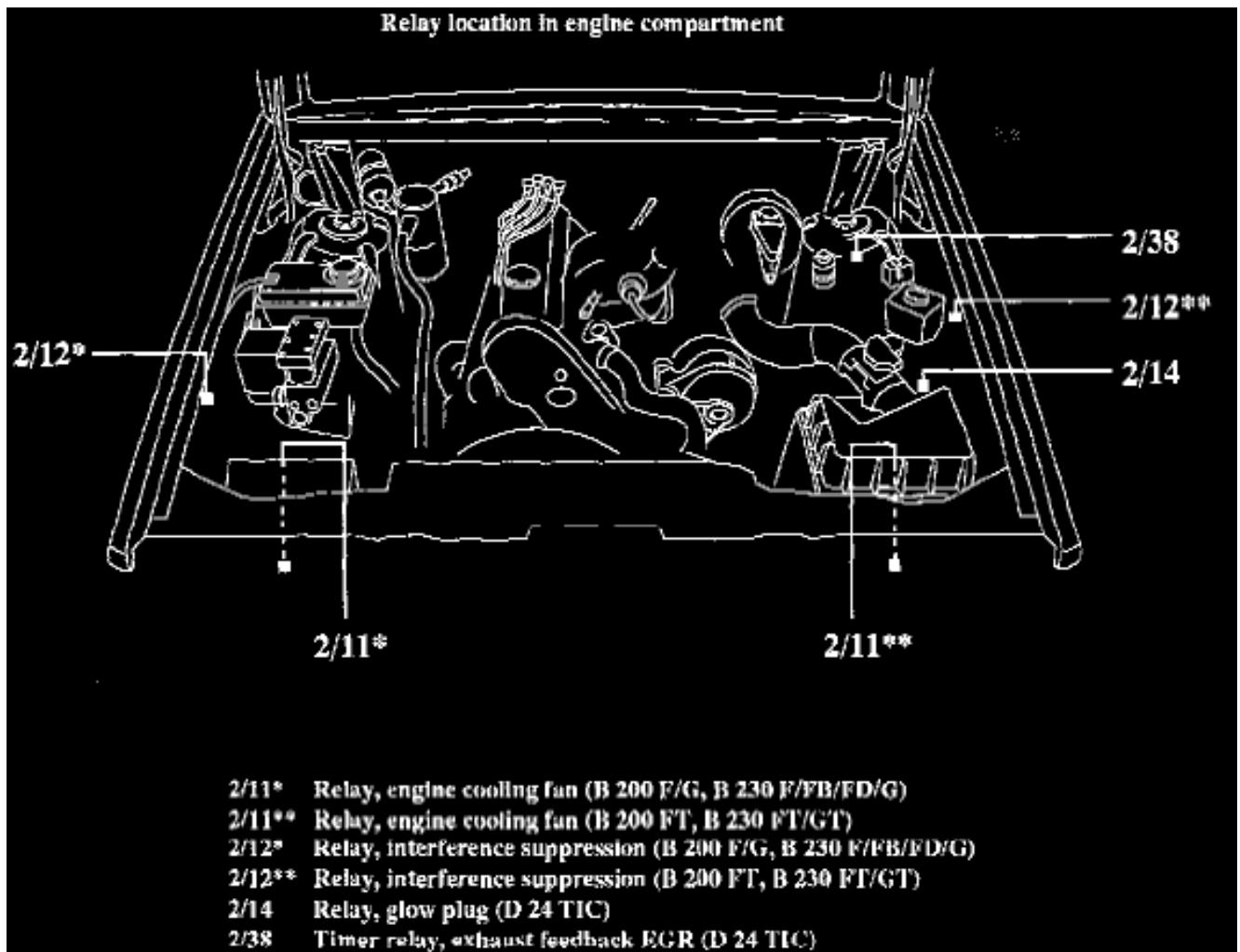
1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

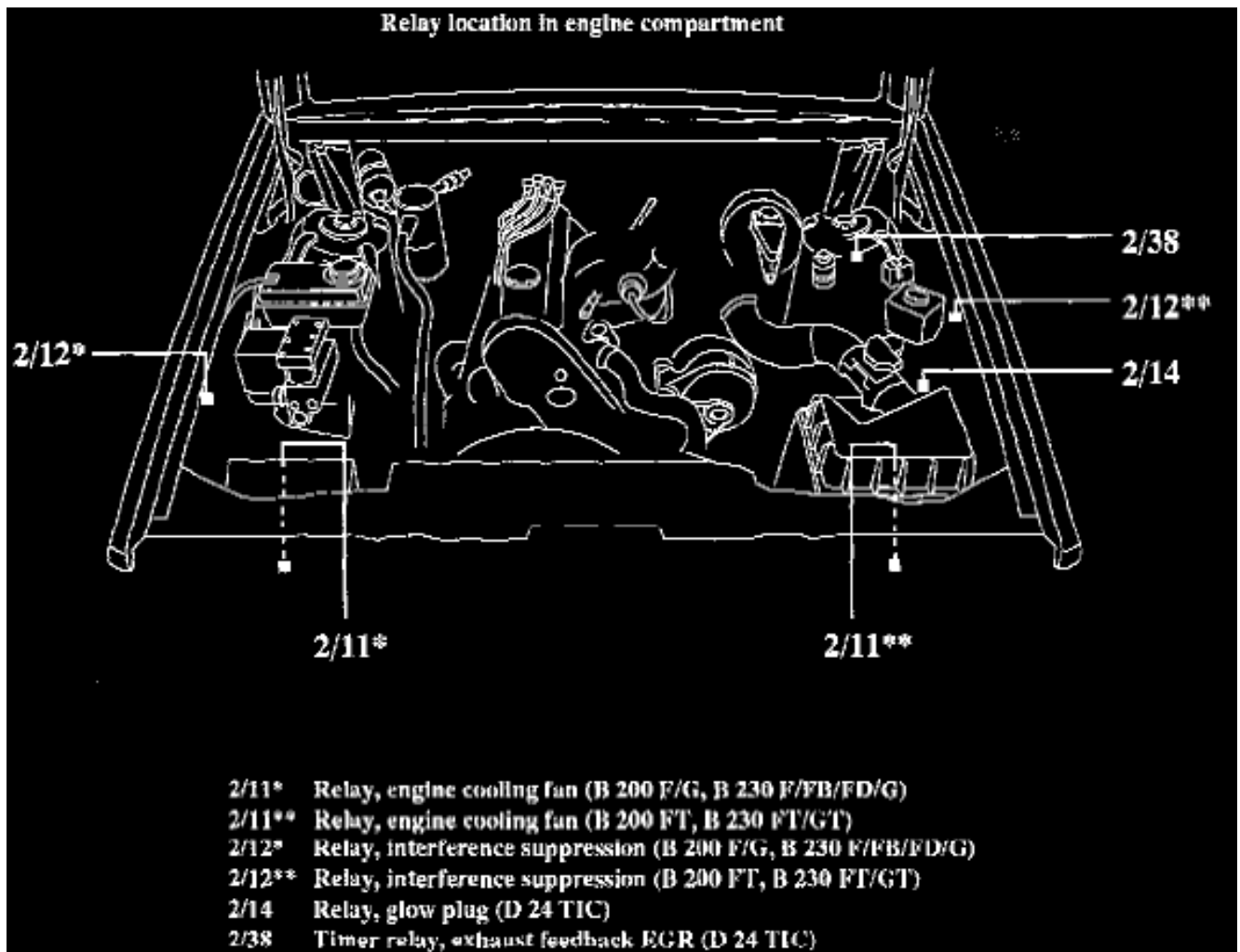
#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



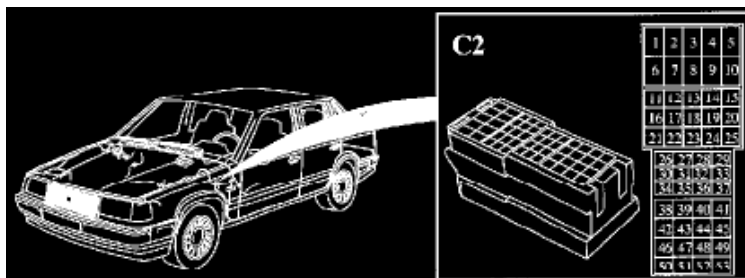
Relays In Engine Compartment





Relays In Engine Compartment





Black connector C2 (53-pin)  
Instrument panel harness - left wheel housing harness

B 230 F REX-I		
1	Starter motor 50	(BL-GN)
2	High beam left	(BL-W)
3	Low beam left	(GN)
4	Horn + Windshield wiper motor pos. 1 Headlight wiper motor (not USA/CDN)	(Y)
5	Windshield wiper motor pos. 2	(GR)
6	Windshield wiper motor pos. 3	(GN-W)
7	Windshield wiper motor pos. 4	(OR)
8	Front foglights	(W-SB)
9	Control module REX-I (DI) pos. 5	(BN)
10	-	
11	On-board diagnostic (OBD) socket B pos. 5	(GR-OR)
12	On-board diagnostic (OBD) socket A pos. 5	(BL-P)
13	Turn signal, left	(GN)
14	Parking light, left	(W)
15	-	
16	Oil pressure sensor	(SB)
17	Horn -	(BL-SB)
18	Headlight wiper motor (not USA/CDN) Windshield washer motor	(BL-R)
19	Brake fluid level sensor	(Y-O)
20	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)
22	Generator D+	(R)
23	On-board diagnostic (OBD) socket B pos. 6	(BL-W)
24	Service socket	(P)
25	On-board diagnostic (OBD) socket A pos. 2	(GN-W)
26	Control module REX-I (DI) pos. 3	(BN-W)
27	Power amplifier/ignition coil REX-I (DI) pos. C	(R-W)
28	On-board diagnostic (OBD) socket A pos. 4 Control module REX-I (DI) pos. 6 Power amplifier/ignition coil REX-I (DI) pos. A	(BL)
29	Control module REX-I (DI) pos. 17	(Y-GR)
30	-	
31	-	
32	Washer fluid level sensor	(R-SB)
33	Washer motor, tailgate	(BL-Y)
34	Door switch	(BN-SB)
35	Door switch	(W-SB)
36	-	
37	-	
38	Ambient temperature sensor	(GN-Y)
39	Ambient temperature sensor	(GN-R)
40	Anti-theft alarm, connector D4 pos. 1	(GR-W)
41	Anti-theft alarm, connector D4 pos. 2	(BN-P)
42	Control module cruise control pos. 10	(BN-GR)
43	Control module cruise control pos. 2	(P-SB)
44	Control module cruise control pos. 7	(BN-OR)
45	Control module cruise control pos. 11	(BL-OR)
46	Control module cruise control pos. 6	(BL-GR)
47	Control module cruise control pos. 4	(OR-W)
48	Control module cruise control pos. 3	(OR-SB)
49	Control module cruise control pos. 13	(GN-OR)
50	-	
51	-	
52	-	
53	-	

Connector At Left A-post



Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin

C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

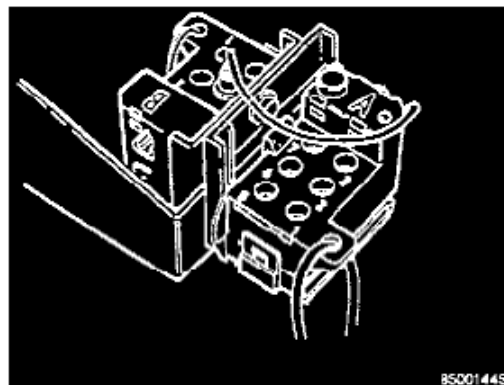
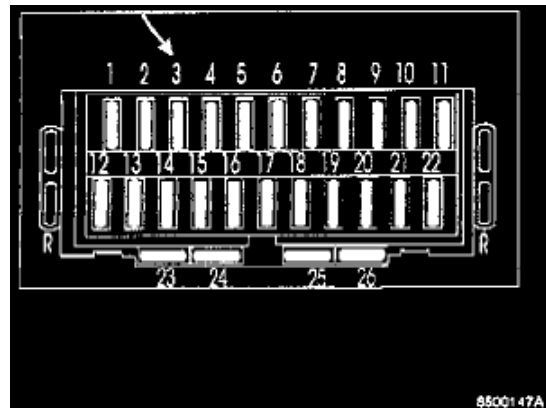
C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102  
Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at  
thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin







- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

## C5

- Reinstall fuse No. 3.

Diagnostic system must now be activated within one minute, i.e., test button must be pressed once to select DTM 1 (self-diagnostics) or four times to select DTM 4 (calibration).

Control module will exit diagnostic function after approx. 1 minute if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off for at least 5 seconds. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of the SM; use of DTM 4 (calibration) is described on SM page 7.

### Method For Version 4 (D)

1960, 1993 4-door models as from chassis No. 018367 5-door models as from chassis No. 012113

#### Note:

Unlike earlier models, the power seats in the above models can be operated with the ignition off.

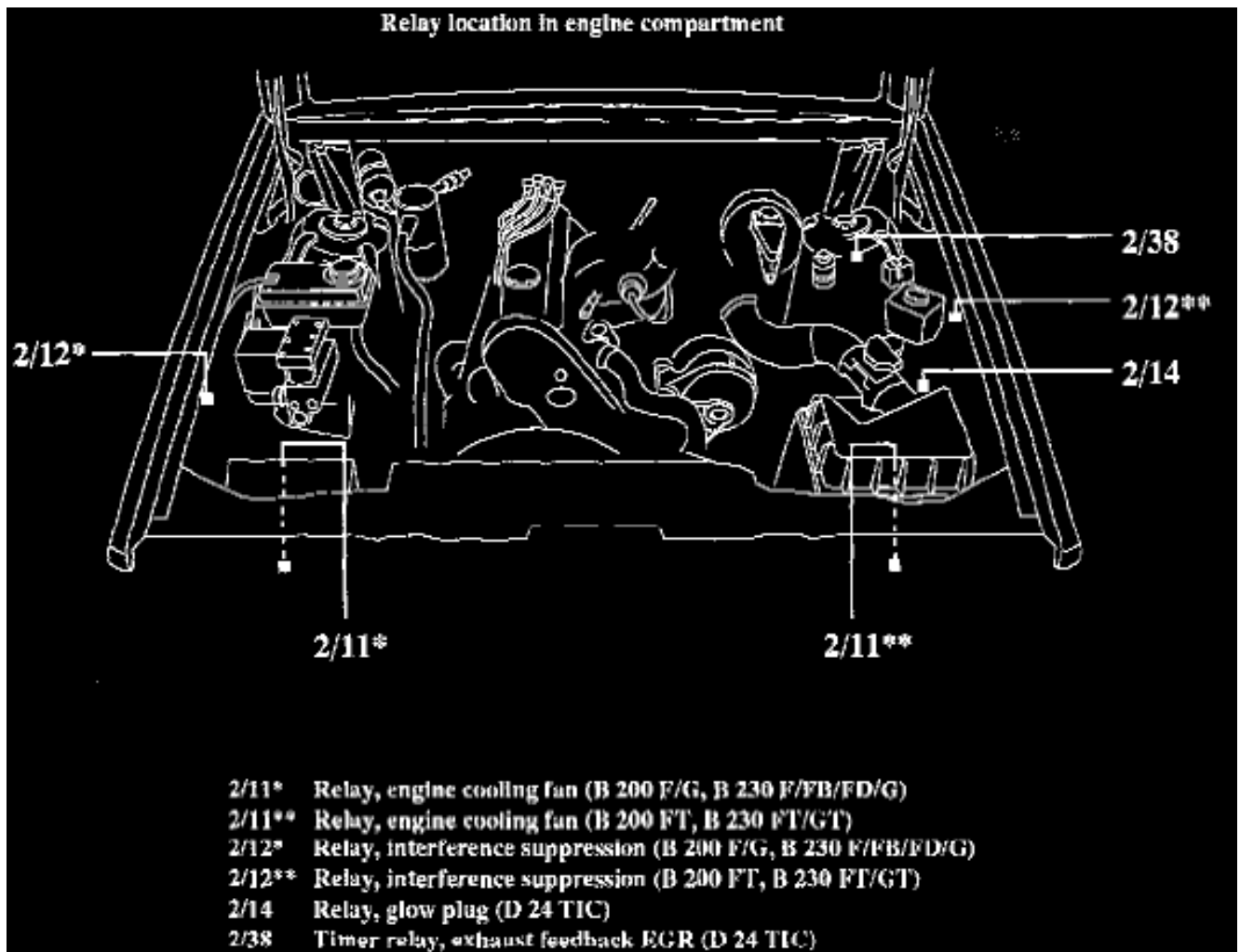
## D1

- Switch off ignition.

## D2

- Manual fault tracing/calibration: Connect test lead from DLC A to socket No. 6 on DLC B.
- Fault tracing/calibration with VST with OBD System Memory Cassette: Connect instrument to DLC B.

## D3



Relays In Engine Compartment



1 Fuel pump (LH-2.4 MFI)

Fuel system

Distributor Ignition (DI) system

Oxygen sensor (HO2S) heating (B200/230FT)

2 Hazard warning flashers

Headlight flasher (via fuse 17 and 18)

Central locking

Anti-theft alarm

3 Power seats (Towing hook)

4 Brake lights Solenoid, P-shift lock

5 Clock

Vanity mirror light

Glove compartment lighting

Trunk light

Interior lighting

Radio

Power antenna

Door-open warning lights

CD.autochanger

Anti-theft alarm

6 Electronic Climate Control (ECC) Cabin fan, Electronic Climate Control (ECC)

7 Front foglights

Rear foglights (not USA, Canada)

8 Power windows

9 Turn signals

Warning lights for seat belts

Seat belt reminder

Ignition key warning

Bypass relay 151 (power windows/seat heating)

Solenoid, P-shift lock

(Towing hook)

10 Heated rear window

Power sunroof

Heated door mirrors

11 Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI) Oxygen sensor (HO2S) heating

12 Backup (reversing) lights Overdrive relay

Bulb malfunction indicator with brake monitor

Exhaust temperature sensor (Japan)

Cruise control

Anti-theft alarm

Fuse no. Functions

13 Fuel valve, diesel

Pre-heating mechanism, diesel

EGR diesel

Solenoid, pulsed secondary air injection (PAIR) (B23OFD)

14 Power door mirrors

Cigar lighter

Radio

Tailgate washer

Tailgate wiper

Ambient temperature sensor

15 Relays, power seat5

Horn

Windshield wash/wipe

Headlight wash/wipe

16 Cabin fan, standard heater

Cabin fan, Manual Climate Control (MCC)

Electronic Climate Control (ECC)

17 Left high beam

Indicator light, high beam

18 Right high beam

Front fog lights (Japan, Taiwan and Saudi Arabia)

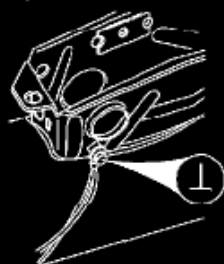
19 Left low beam

Beam width control



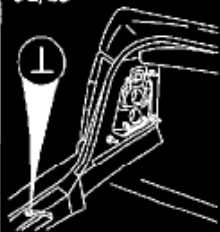


31/9

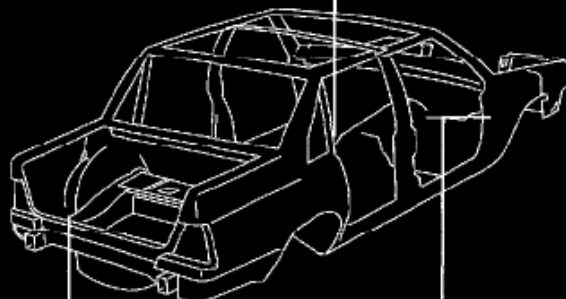


Power seats  
Parking brake switch  
Heated seats  
Seat belt lock, driver's seat

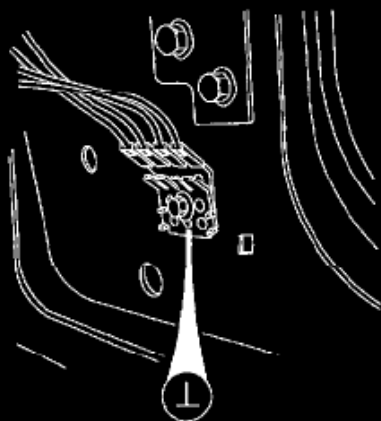
31/13



Fuel primer pump (LH 2.4) (MFI)  
Fuel pump (Regina) (MFI)  
Tail lights  
Number plate lighting  
Trunk lighting  
Extra brake light  
Power antenna  
Interior lighting  
Reading lamps  
Towing hook  
C/D-autochanger



31/10



Cabin fan  
Ground connection rail in electrical distribution unit  
Bulb malfunction indicator  
Flasher unit  
Intermittent relay, wipers  
Headlight relay  
Power sunroof  
Overdrive relay  
Central lock motors  
Power door mirrors  
Power windows  
Bypass relay 15I (window lifts/seat heaters)  
(Accessories)  
Central lock relay  
Relay, seat belt reminder  
Cigar lighter  
Radio  
Glove compartment lighting  
Separate amplifier, radio  
Fuel pump (LH 2.4) (MFI)  
Fog light switch  
Combined instrument  
Fuel gauge  
Electronic climate unit ECC  
Control module DIM-DIP  
Right turn signal side repeater  
Bypass relay, high beam  
Control lighting  
Vanity mirror light  
Relay, exhaust gas temp. sensor (Japan)  
Relay, P-shift lock  
Beam width control  
Switch, heated rear window/door mirrors  
Switch, power door mirrors  
Ambient air temperature gauge  
Anti-theft alarm





10/68 Left high beam  
 10/69 Left extra high beam  
 10/70 Left low beam  
 10/72 Ashtray lighting, front  
 10/74 Indicator light, exhaust gas temperature  
 10/75 Indicator light, charge pressure, turbodiesel  
 10/76 Indicator light, diesel preheating  
 10/77 Indicator light, SRS (airbag)  
 10/78 Indicator light, seat belt  
 10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
 10/80 Indicator light, overdrive (man.)  
 10/82 indicator light, ABS  
 10/83 Indicator light, parking brake  
 10/84 Indicator light, brake warning  
 10/85 Indicator light, high beam  
 10/86 Indicator light, oil pressure  
 10/87 Indicator light, charge  
 10/88 Indicator light, bulb failure  
 10/89 Indicator light, rear foglights  
 10/90 Indicator light, washer fluid level  
 10/91 Service indicator  
 10/92 Indicator light, trailer  
 10/93 Indicator light, malfunction indicator lamp (MIL)  
 10/94 Indicator light, right turn signal  
 10/95 Indicator light, left turn signal  
 10/96 Instrument lighting  
 10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side 11/1-26 Fuses 11/41  
 Fuse, combined instrument  
 15/1 Positive terminal  
 15/2 30-rail in el. distribution unit  
 15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil

20/2 Distributor

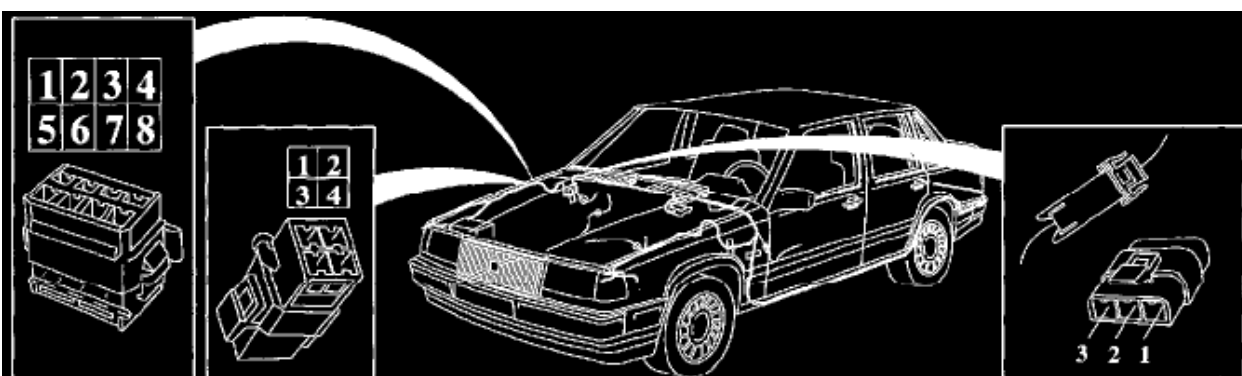
20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor





B230F, REX-I (DI)

B200FT, B230FT/GT

Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin

Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

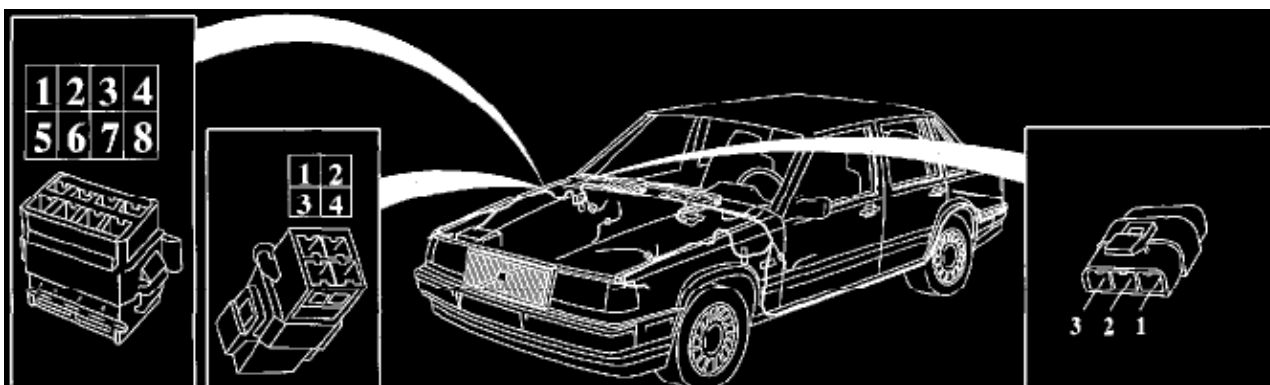
C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



### B 230 F, REX-I

### D24/D24TIC

#### Connector C50 (8-pin)

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C51 (8-pin)

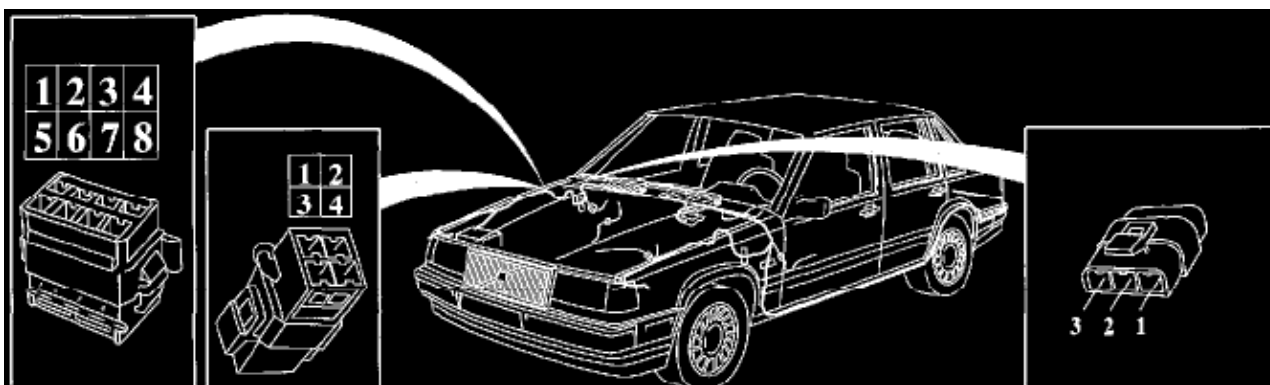
1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C117 (2-pin)

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)

## Power Seat - Fault Tracing/Calibration

Contents	Procedure
<b>Method for:</b> 940, 1992-1993, Version 1 4-door models to chassis No. 114464 incl. 5-door models to chassis No. 066166 incl.	A1 - A4
960, 1992-1993, Version 2 4-door models to chassis No. 018366 incl. 5-door models to chassis No. 012112 incl.	B1 - B4
<b>Method for:</b> 940, 1993, Version 3 4-door models from chassis No. 114465 5-door models from chassis No. 066167	C1 - C5
960, 1993, Version 4 4-door models from chassis No. 018367 5-door models from chassis No. 012113	D1 - D5
<b>Method for:</b> 940/960 from 1994 on, Version 5	E1 - E4

Technical Service Bulletin # 85916 Date: 931001

Power Seat - Fault Tracing/Calibration

Model 900

Group 85

Number 916

Title: Modified Method for Fault tracing/calibrating power seats with memory function.

940/960 1992 -->

Market US and Canada

Date October 1993

THIS BULLETIN SUPERSEDES SB 85-912; DATED FEBRUARY, 1993

REFERENCE: TP 32015/1 (ENGLISH); 11/91; POWER SEAT WITH MEMORY FUNCTION

Modified method for fault tracing/calibrating power seats with memory function

The method for fault tracing/calibrating power seats in different series has been modified since power seats with memory were introduced. This bulletin provides a summary of the methods which should be used on various models.

Method for fault tracing/calibrating power seats with memory function

Method For Version 1 (A)

Applies to: 940, 1992-1993 4-door models to chassis No. 114464 incl. 5-door models to chassis No. 066166 incl.

Note:



C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, ate. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components 1/1 - 3/70

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection

2/34 Relay, front foglights

2/36 Headlight flasher

2/37 Headlight relay

2/38 Timer relay, exhaust gas recirculation (EGR)

2/45 Relay, P-shift lock

2/50 Bypass relay, high beam

3/1 Ignition lock

3/2 Light switch

3/4 Cruise control operation

3/5 Switch, turn signal/high-low beam

3/6 Switch, hazard warning flashers

3/7 Foglight switch

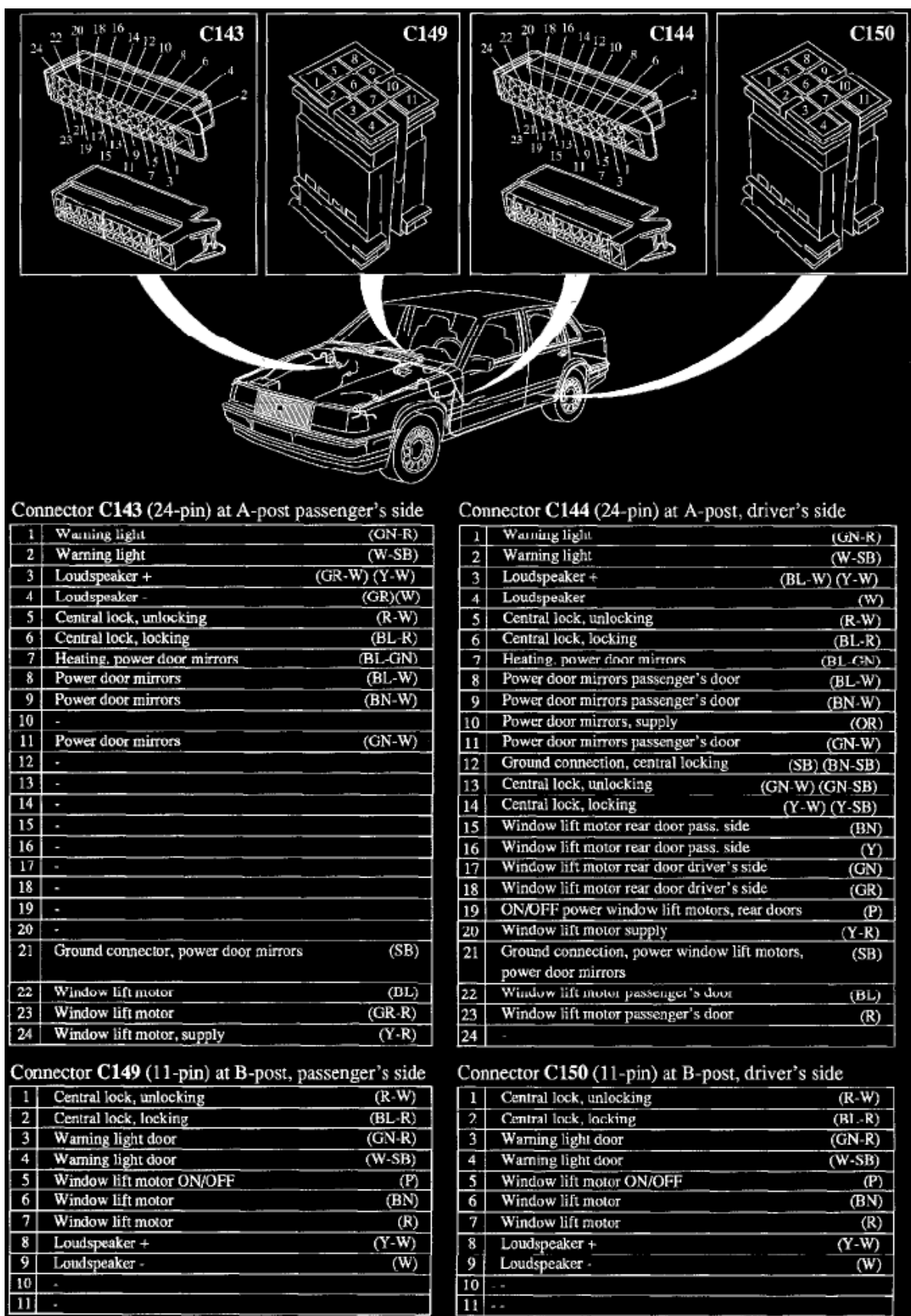
3/8-1 Switch, heated rear window

3/8-2 Switch with timer relay, heated rear window/door mirrors

3/9 Brake light switch







Connectors For Doors



1 Fuel pump (LH-2.4 MFI)

Fuel system

Distributor Ignition (DI) system

Oxygen sensor (HO2S) heating (B200/230FT)

2 Hazard warning flashers

Headlight flasher (via fuse 17 and 18)

Central locking

Anti-theft alarm

3 Power seats (Towing hook)

4 Brake lights Solenoid, P-shift lock

5 Clock

Vanity mirror light

Glove compartment lighting

Trunk light

Interior lighting

Radio

Power antenna

Door-open warning lights

CD.autochanger

Anti-theft alarm

6 Electronic Climate Control (ECC) Cabin fan, Electronic Climate Control (ECC)

7 Front foglights

Rear foglights (not USA, Canada)

8 Power windows

9 Turn signals

Warning lights for seat belts

Seat belt reminder

Ignition key warning

Bypass relay 151 (power windows/seat heating)

Solenoid, P-shift lock

(Towing hook)

10 Heated rear window

Power sunroof

Heated door mirrors

11 Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI) Oxygen sensor (HO2S) heating

12 Backup (reversing) lights Overdrive relay

Bulb malfunction indicator with brake monitor

Exhaust temperature sensor (Japan)

Cruise control

Anti-theft alarm

Fuse no. Functions

13 Fuel valve, diesel

Pre-heating mechanism, diesel

EGR diesel

Solenoid, pulsed secondary air injection (PAIR) (B23OFD)

14 Power door mirrors

Cigar lighter

Radio

Tailgate washer

Tailgate wiper

Ambient temperature sensor

15 Relays, power seat5

Horn

Windshield wash/wipe

Headlight wash/wipe

16 Cabin fan, standard heater

Cabin fan, Manual Climate Control (MCC)

Electronic Climate Control (ECC)

17 Left high beam

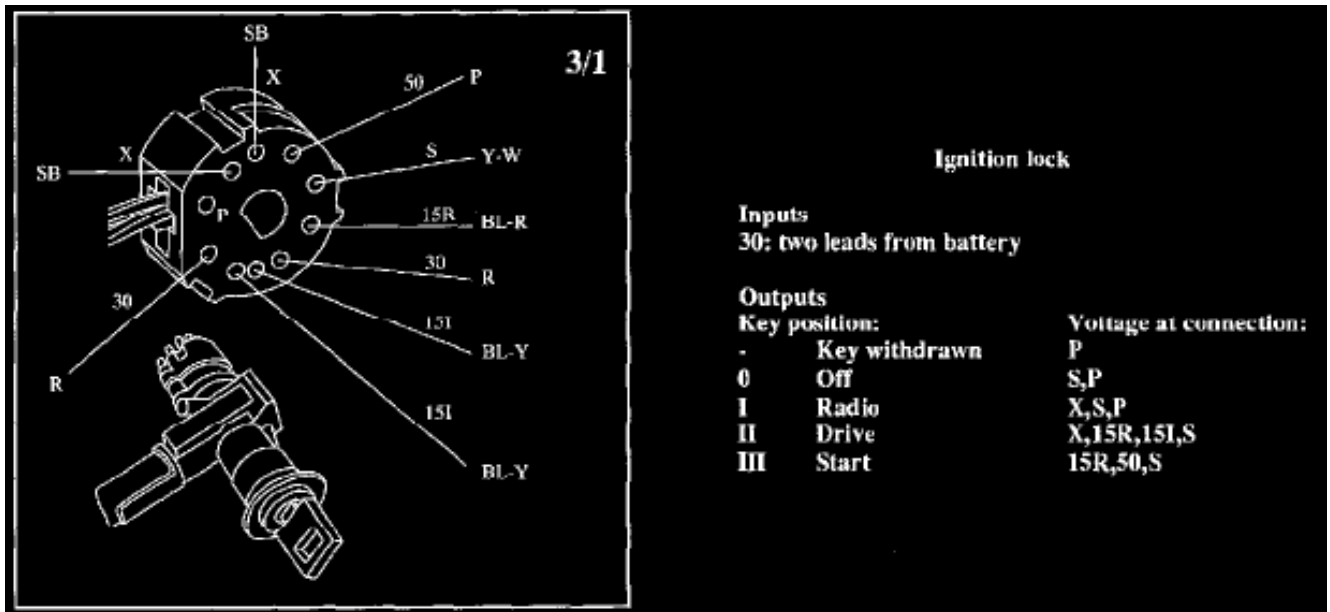
Indicator light, high beam

18 Right high beam

Front fog lights (Japan, Taiwan and Saudi Arabia)

19 Left low beam

Beam width control

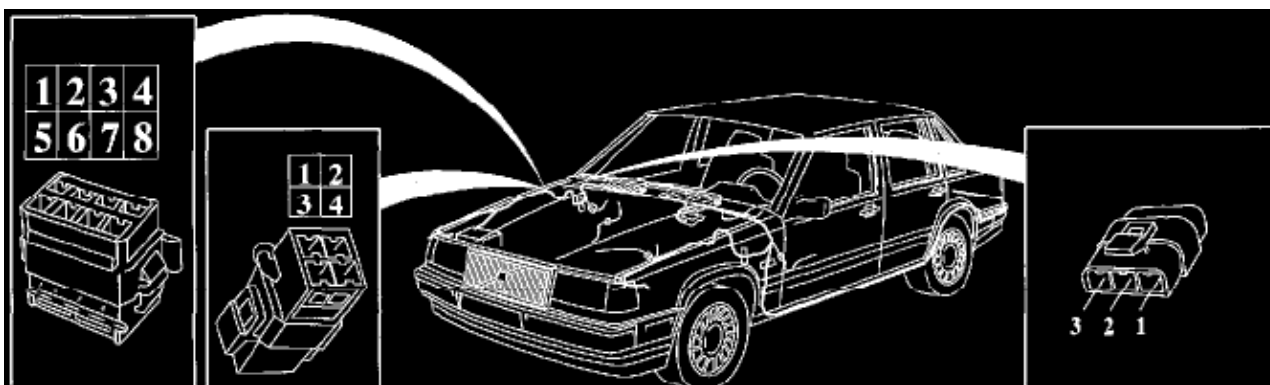


Connector, Ignition Lock

Fuse Rating / Circuit Assignment - Electrical Distribution Unit







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





10/68 Left high beam  
 10/69 Left extra high beam  
 10/70 Left low beam  
 10/72 Ashtray lighting, front  
 10/74 Indicator light, exhaust gas temperature  
 10/75 Indicator light, charge pressure, turbodiesel  
 10/76 Indicator light, diesel preheating  
 10/77 Indicator light, SRS (airbag)  
 10/78 Indicator light, seat belt  
 10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
 10/80 Indicator light, overdrive (man.)  
 10/82 indicator light, ABS  
 10/83 Indicator light, parking brake  
 10/84 Indicator light, brake warning  
 10/85 Indicator light, high beam  
 10/86 Indicator light, oil pressure  
 10/87 Indicator light, charge  
 10/88 Indicator light, bulb failure  
 10/89 Indicator light, rear foglights  
 10/90 Indicator light, washer fluid level  
 10/91 Service indicator  
 10/92 Indicator light, trailer  
 10/93 Indicator light, malfunction indicator lamp (MIL)  
 10/94 Indicator light, right turn signal  
 10/95 Indicator light, left turn signal  
 10/96 Instrument lighting  
 10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side

Components 11/1 - 20/18

No. Component Name

11/1-26 Fuses 11/41

Fuse, combined instrument

15/1 Positive terminal

15/2 30-rail in el. distribution unit

15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil







10/68 Left high beam

10/69 Left extra high beam

10/70 Left low beam

10/72 Ashtray lighting, front

10/74 Indicator light, exhaust gas temperature

10/75 Indicator light, charge pressure, turbodiesel

10/76 Indicator light, diesel preheating

10/77 Indicator light, SRS (airbag)

10/78 Indicator light, seat belt

10/79 Indicator light, overdrive (auto.)/Gear selection indicator

10/80 Indicator light, overdrive (man.)

10/82 indicator light, ABS

10/83 Indicator light, parking brake

10/84 Indicator light, brake warning

10/85 Indicator light, high beam

10/86 Indicator light, oil pressure

10/87 Indicator light, charge

10/88 Indicator light, bulb failure

10/89 Indicator light, rear foglights

10/90 Indicator light, washer fluid level

10/91 Service indicator

10/92 Indicator light, trailer

10/93 Indicator light, malfunction indicator lamp (MIL)

10/94 Indicator light, right turn signal

10/95 Indicator light, left turn signal

10/96 Instrument lighting

10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side

Components 11/1 - 20/18

No. Component Name

11/1-26 Fuses 11/41

Fuse, combined instrument

15/1 Positive terminal

15/2 30-rail in el. distribution unit

15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil



6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

Components 7/4 - 9/6

No. Component Name

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI)system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan

7/41 High-pressure sensor, A/C

7/43 Thermostat, driver's seat

7/44 Thermostat, passenger's seat

7/47 PTC-resistor, air pre-heating

7/50 Pressure sensor, intake manifold



7/52 Temperature sensor, intake air



7/53 Low-pressure sensor, A/C

7/69 Ambient temperature sensor

7/75 Bulb malfunction indicator

8/1 Operating solenoid, overdrive

8/2 Solenoids, ECC

8/3 Solenoid coupling, A/C

8/5 Idle air control (IAC) valve

8/6-9 Injection valves

8/13 Fuel valve, diesel

8/15 Hydraulic unit, ABS

8/17 Converter, EGR

8/24 3-way valve, EGR

8/30 Steering wheel module, SRS (airbag)

8/33 Igniter for left seat belt tensioner

8/34 Igniter for right seat belt tensioner

8/36 Solenoid P-shift lock

8/42 Solenoid, pulsed secondary air injection (PAIR)

9/1 Cigar lighter

9/2 Heated rear window

9/3 Heater element, driver's seat backrest

9/4 Heater element, passenger's seat backrest

9/5 Heater element, driver's seat cushion

9/6 Heater element, passenger's seat cushion

Components 10/5 - 10/115

No. Component Name

10/5 Left front foglight

10/6 Right front foglight

10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)  
10/16 Right turn signal repeater (not USA/CDN)  
10/19 Extra brake light  
10/20 Left number plate light  
10/21 Right number plate light  
10/22 Roof light  
10/24 Trunk light  
10/25 Roof light, load area (5-door)  
10/29 Glove compartment light  
10/30 Door-open warning light, driver's door  
10/31 Door-open warning light, front passenger's side  
10/32 Door-open warning light, rear driver's side  
10/33 Door-open warning light, rear passenger's side  
10/36 Control panel lighting  
10/38 Ashtray lighting, rear  
10/39 Switch lighting, seat heater  
10/40 Gear selector lighting  
10/43 Right brake light  
10/44 Right parking light, rear  
10/45 Right parking/tail light  
10/46 Right rear foglight  
10/47 Bulb, right rear turn signal  
10/48 Right backup (reversing) light  
10/50 Left brake light  
10/51 Left parking light, rear  
10/52 Left parking/tail light  
10/53 Left rear foglight  
10/54 Bulb, left rear turn signal  
10/55 Left backup (reversing) light  
10/64 Right high beam  
10/65 Right extra high beam





4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front

6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

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6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

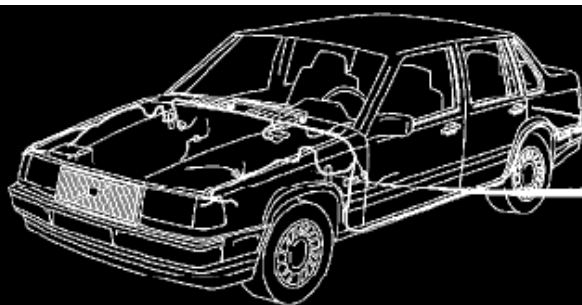
7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan







1	2	3	4
5	6	7	8



### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) B230FD and B230FT California; Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) California; Ground, ICM pos. 14	
3	B230FD and B230FT California; Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California)	(Y-SB)
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

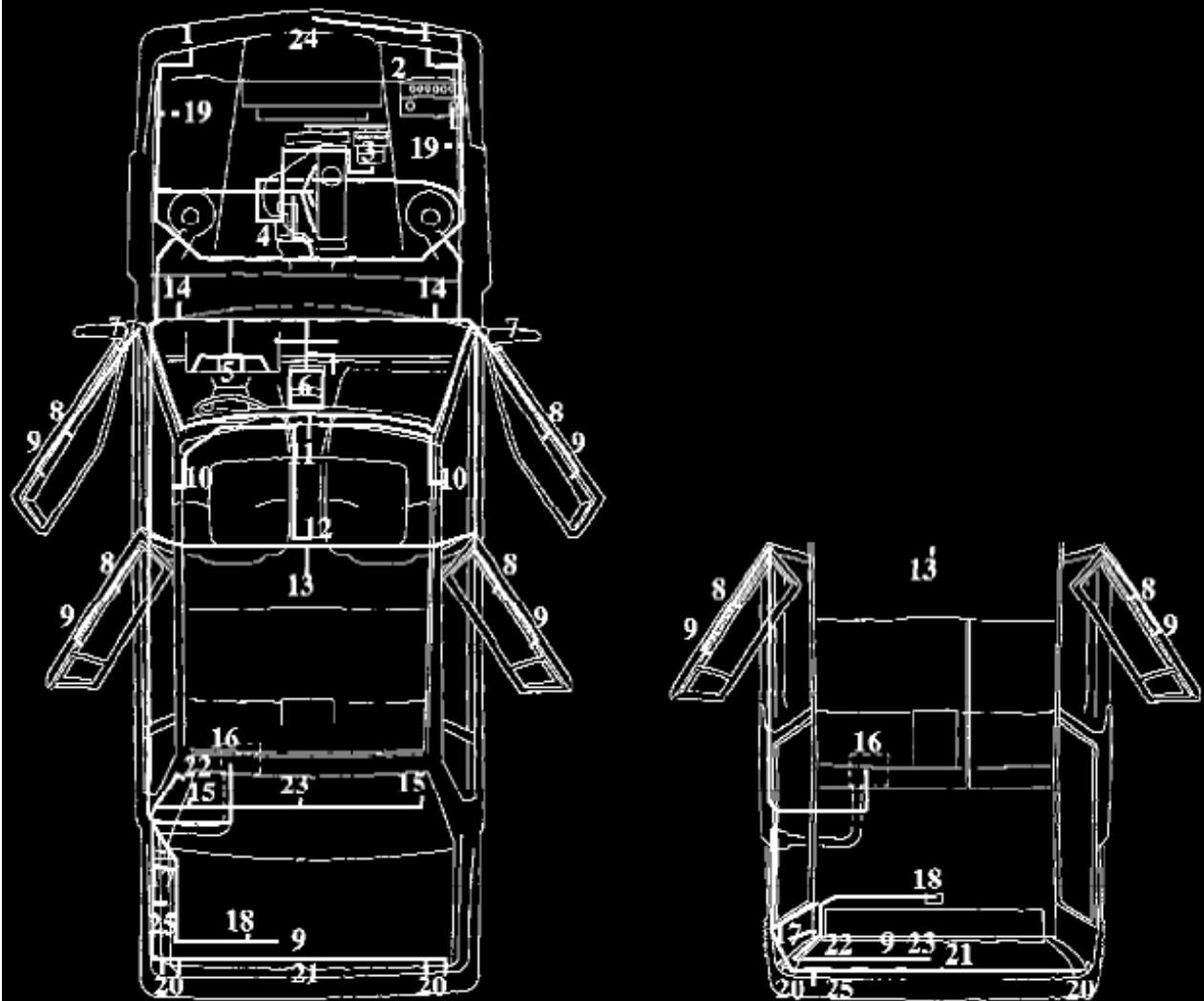
Connector In Engine Compartment



## Cable routing

The routing of the main cables is shown in the illustration.

- |    |                              |    |                                   |
|----|------------------------------|----|-----------------------------------|
| 1  | Front lights                 | 13 | Interior lighting                 |
| 2  | Battery                      | 14 | Loudspeakers, instrument panel    |
| 3  | Generator                    | 15 | Loudspeakers, rear parcel shelf   |
| 4  | Starter motor                | 16 | Fuel gauge                        |
| 5  | Combined instrument          | 17 | Power antenna                     |
| 6  | Electrical distribution unit | 18 | Trunk lighting                    |
| 7  | Power door mirrors           | 19 | ABS hydraulic unit                |
| 8  | Power windows                | 20 | Tail lights                       |
| 9  | Central locking              | 21 | Number plate lighting             |
| 10 | Control modules, power seats | 22 | Heated rear window                |
| 11 | Motor, power sunroof         | 23 | Extra brake light                 |
| 12 | Ashtray lighting             | 24 | Engine cooling fan                |
|    |                              | 25 | Pre-routed wiring for towing hook |







10/68 Left high beam  
10/69 Left extra high beam  
10/70 Left low beam  
10/72 Ashtray lighting, front  
10/74 Indicator light, exhaust gas temperature  
10/75 Indicator light, charge pressure, turbodiesel  
10/76 Indicator light, diesel preheating  
10/77 Indicator light, SRS (airbag)  
10/78 Indicator light, seat belt  
10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
10/80 Indicator light, overdrive (man.)  
10/82 indicator light, ABS  
10/83 Indicator light, parking brake  
10/84 Indicator light, brake warning  
10/85 Indicator light, high beam  
10/86 Indicator light, oil pressure  
10/87 Indicator light, charge  
10/88 Indicator light, bulb failure  
10/89 Indicator light, rear foglights  
10/90 Indicator light, washer fluid level  
10/91 Service indicator  
10/92 Indicator light, trailer  
10/93 Indicator light, malfunction indicator lamp (MIL)  
10/94 Indicator light, right turn signal  
10/95 Indicator light, left turn signal  
10/96 Instrument lighting  
10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side 11/1-26 Fuses 11/41  
Fuse, combined instrument  
15/1 Positive terminal  
15/2 30-rail in el. distribution unit  
15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil

20/2 Distributor

20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	





Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin

C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

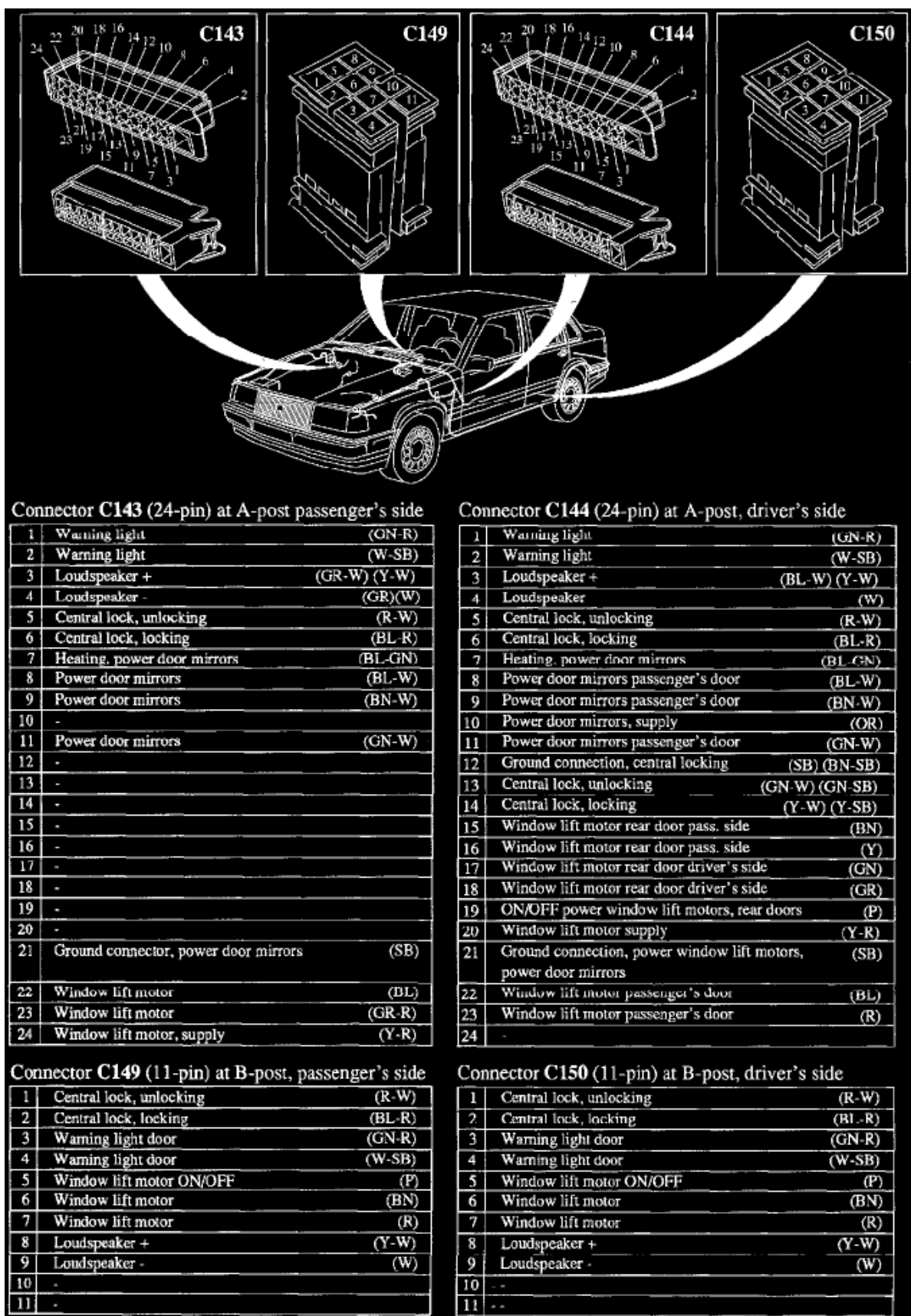
C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102  
Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at  
thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

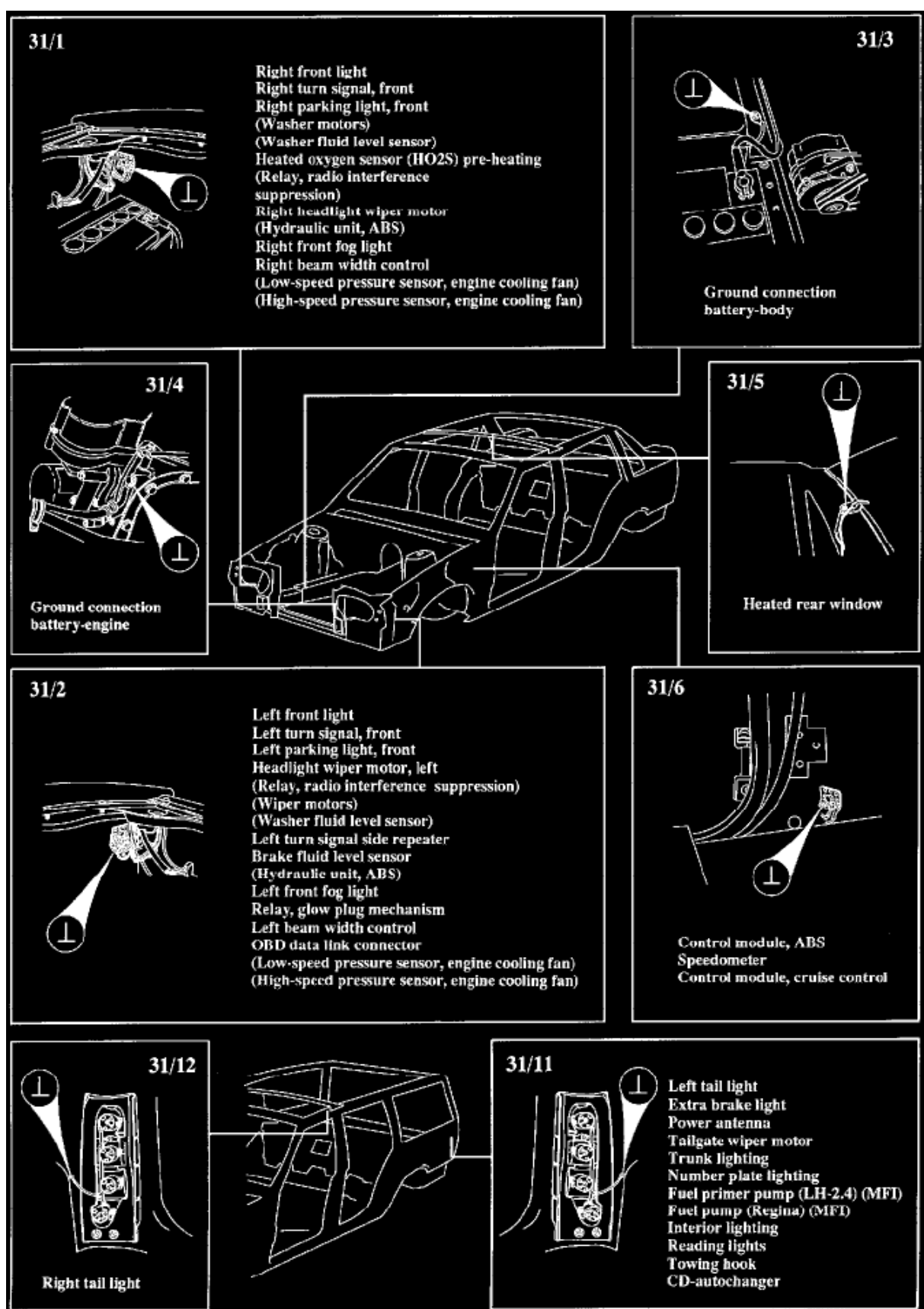
C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin





Connectors For Doors



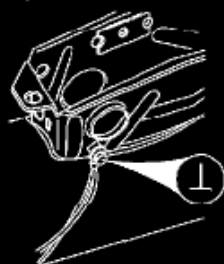


Ground Connections



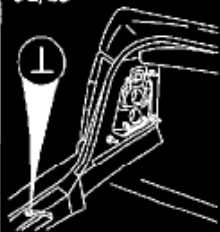


31/9

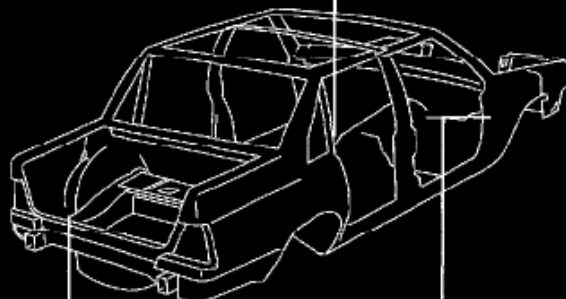


Power seats  
Parking brake switch  
Heated seats  
Seat belt lock, driver's seat

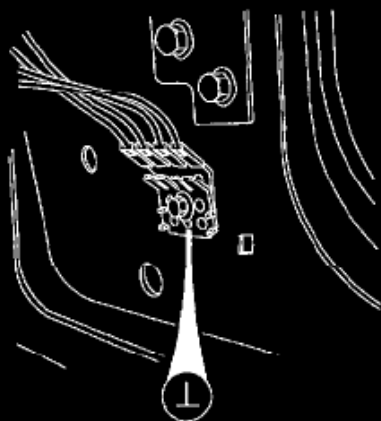
31/13



Fuel primer pump (LH 2.4) (MFI)  
Fuel pump (Regina) (MFI)  
Tail lights  
Number plate lighting  
Trunk lighting  
Extra brake light  
Power antenna  
Interior lighting  
Reading lamps  
Towing hook  
C/D-autochanger



31/10



Cabin fan  
Ground connection rail in electrical distribution unit  
Bulb malfunction indicator  
Flasher unit  
Intermittent relay, wipers  
Headlight relay  
Power sunroof  
Overdrive relay  
Central lock motors  
Power door mirrors  
Power windows  
Bypass relay 15I (window lifts/seat heaters)  
(Accessories)  
Central lock relay  
Relay, seat belt reminder  
Cigar lighter  
Radio  
Glove compartment lighting  
Separate amplifier, radio  
Fuel pump (LH 2.4) (MFI)  
Fog light switch  
Combined instrument  
Fuel gauge  
Electronic climate unit ECC  
Control module DIM-DIP  
Right turn signal side repeater  
Bypass relay, high beam  
Control lighting  
Vanity mirror light  
Relay, exhaust gas temp. sensor (Japan)  
Relay, P-shift lock  
Beam width control  
Switch, heated rear window/door mirrors  
Switch, power door mirrors  
Ambient air temperature gauge  
Anti-theft alarm





10/68 Left high beam  
 10/69 Left extra high beam  
 10/70 Left low beam  
 10/72 Ashtray lighting, front  
 10/74 Indicator light, exhaust gas temperature  
 10/75 Indicator light, charge pressure, turbodiesel  
 10/76 Indicator light, diesel preheating  
 10/77 Indicator light, SRS (airbag)  
 10/78 Indicator light, seat belt  
 10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
 10/80 Indicator light, overdrive (man.)  
 10/82 indicator light, ABS  
 10/83 Indicator light, parking brake  
 10/84 Indicator light, brake warning  
 10/85 Indicator light, high beam  
 10/86 Indicator light, oil pressure  
 10/87 Indicator light, charge  
 10/88 Indicator light, bulb failure  
 10/89 Indicator light, rear foglights  
 10/90 Indicator light, washer fluid level  
 10/91 Service indicator  
 10/92 Indicator light, trailer  
 10/93 Indicator light, malfunction indicator lamp (MIL)  
 10/94 Indicator light, right turn signal  
 10/95 Indicator light, left turn signal  
 10/96 Instrument lighting  
 10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side

Components 11/1 - 20/18

No. Component Name

11/1-26 Fuses 11/41

Fuse, combined instrument

15/1 Positive terminal

15/2 30-rail in el. distribution unit

15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





7/52 Temperature sensor, intake air

7/53 Low-pressure sensor, A/C

7/69 Ambient temperature sensor

7/75 Bulb malfunction indicator

8/1 Operating solenoid, overdrive

8/2 Solenoids, ECC

8/3 Solenoid coupling, A/C

8/5 Idle air control (IAC) valve

8/6-9 Injection valves

8/13 Fuel valve, diesel

8/15 Hydraulic unit, ABS

8/17 Converter, EGR

8/24 3-way valve, EGR

8/30 Steering wheel module, SRS (airbag)

8/33 Igniter for left seat belt tensioner

8/34 Igniter for right seat belt tensioner

8/36 Solenoid P-shift lock

8/42 Solenoid, pulsed secondary air injection (PAIR)

9/1 Cigar lighter

9/2 Heated rear window

9/3 Heater element, driver's seat backrest

9/4 Heater element, passenger's seat backrest

9/5 Heater element, driver's seat cushion

9/6 Heater element, passenger's seat cushion

Components 10/5 - 10/115

No. Component Name

10/5 Left front foglight

10/6 Right front foglight

10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

10/54 Bulb, left rear turn signal

10/55 Left backup (reversing) light

10/64 Right high beam

10/65 Right extra high beam



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	





2/36 Headlight flasher  
2/37 Headlight relay  
2/38 Timer relay, exhaust gas recirculation (EGR)  
2/45 Relay, P-shift lock  
2/50 Bypass relay, high beam  
3/1 Ignition lock  
3/2 Light switch  
3/4 Cruise control operation  
3/5 Switch, turn signal/high-low beam  
3/6 Switch, hazard warning flashers  
3/7 Foglight switch  
3/8-1 Switch, heated rear window  
3/8-2 Switch with timer relay, heated rear window/door mirrors  
3/9 Brake light switch  
3/10 Backup (reversing) light switch  
3/12 Switch, windshield wash/wipe  
3/13 Switch, tailgate wash/wipe  
3/14 Switch, lock button  
3/15 Power window switch, driver's door for driver's door  
3/16 Power window switch, driver's door for driver's side rear door  
3/17 Power window switch, driver's door for passenger's side front  
3/18 Power window switch, driver's door for passenger's side rear  
3/19 Power window switch, driver's side rear  
3/20 Power window switch, passenger's side front  
3/21 Power window switch, passenger's side rear  
3/22 Switch for rear power window lifts  
3/23 Switch for power door mirror, driver's side  
3/24 Switch for power door mirror, passenger's side  
3/25 Switch for power sunroof  
3/26 Operating module, driver's seat  
3/27 Operating module, passenger's seat



3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

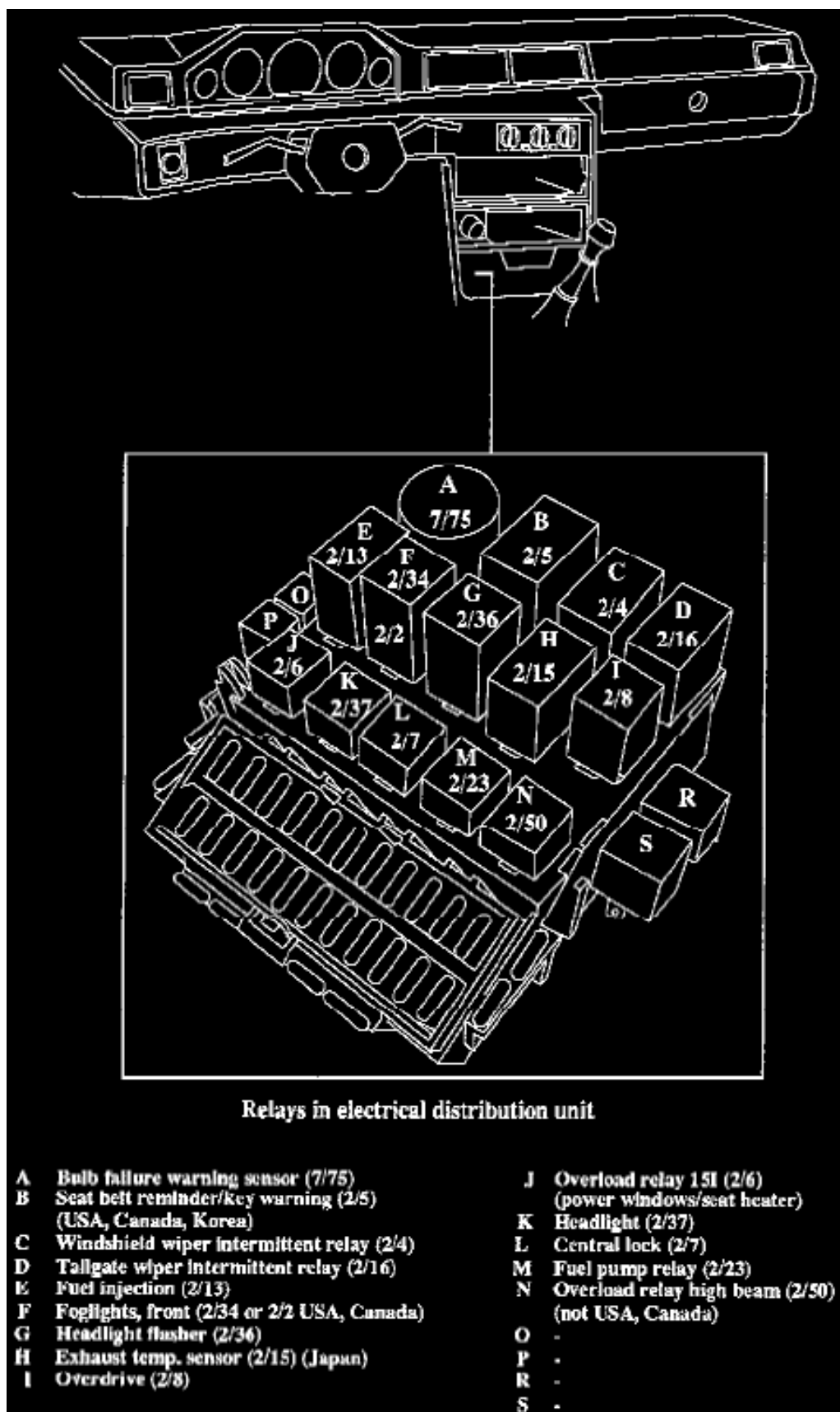
4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 ontrol module LH-jetronic 2.4 (MFI) system





Relays In Electrical Distribution Unit





4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front

6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

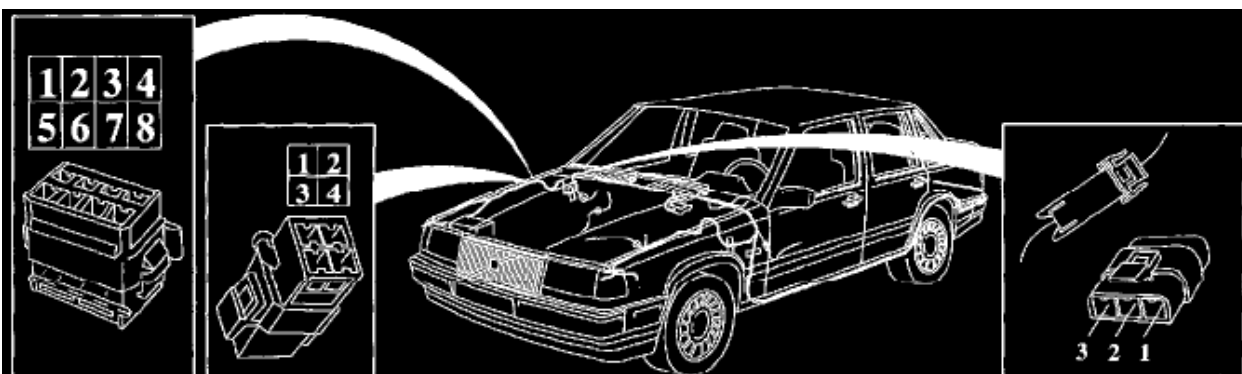
7/37 Temperature sensor, EGR



7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
8	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
9	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

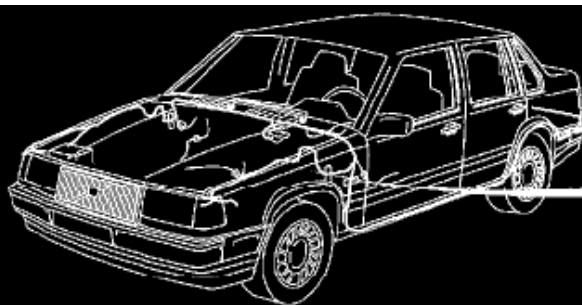
#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment





1	2	3	4
5	6	7	8



### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-		Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin)	(BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin)	(BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin)	(Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)
8	-		-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)	Oil pressure sensor	(SB)
3	Ground, control module EZK pos. 20	(BN) (BN-SB)	Ground, ICM pos. 20	(BN)
4	Generator D+	(R)	Generator D+	(R)
5	Starter motor 50	(BL-GN)	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)	Throttle position (TP) switch pos. 1	(OR)
7	Pos. 8, connector C54 at right suspension tower		Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2	(R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C132 (8-pin)

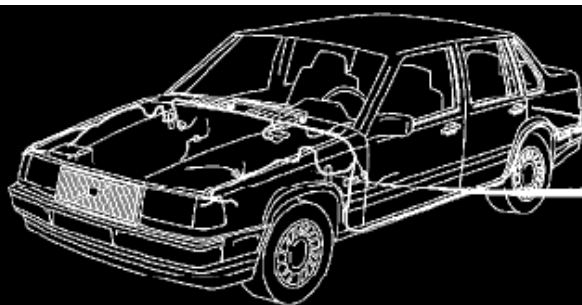
#### Connector C132 (8-pin)

1	Ignition coil 1	(R-W)	Ignition coil 1	(R-W)
2	All: Ground, power amplifier EZK (DI) B230FD and B230FT California; Ground, control module EZK (DI) pos. 14	(SB)	All: Ground, power amplifier EZK (DI) California; Ground, ICM pos. 14	(SB)
3	B230FD and B230FT California; Temp. sensor, EGR pos. 1	(Y-SB)	Temperature sensor EGR pos. 1 (California)	(Y-SB)
5	Mass air flow (MAF) sensor pos. 1	(BN)	Ignition coil 15	(BL)
6	Knock sensor (KS) pos. 1	(GN)	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)	Knock sensor (KS) pos. 2	(SB)
8	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD)	(Y-R)	-	

Connector In Engine Compartment







1	2	3	4
5	6	7	8



### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-		Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin)	(BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin)	(BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin)	(Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)
8	-		-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)	Oil pressure sensor	(SB)
3	Ground, control module EZK pos. 20	(BN) (BN-SB)	Ground, ICM pos. 20	(BN)
4	Generator D+	(R)	Generator D+	(R)
5	Starter motor 50	(BL-GN)	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)	Throttle position (TP) switch pos. 1	(OR)
7	Pos. 8, connector C54 at right suspension tower		Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2	(R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

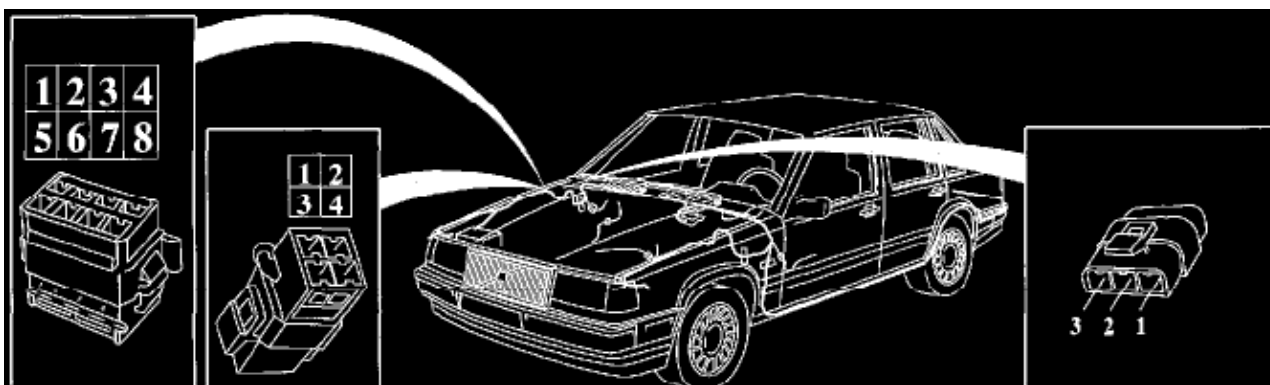
#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1	(R-W)	Ignition coil 1	(R-W)
2	All: Ground, power amplifier EZK (DI) B230FD and B230FT California; Ground, control module EZK (DI) pos. 14	(SB)	All: Ground, power amplifier EZK (DI) California; Ground, ICM pos. 14	(SB)
3	B230FD and B230FT California; Temp. sensor, EGR pos. 1	(Y-SB)	Temperature sensor EGR pos. 1 (California)	(Y-SB)
5	Mass air flow (MAF) sensor pos. 1	(BN)	Ignition coil 15	(BL)
6	Knock sensor (KS) pos. 1	(GN)	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)	Knock sensor (KS) pos. 2	(SB)
8	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD)	(Y-R)	-	

Connector In Engine Compartment





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

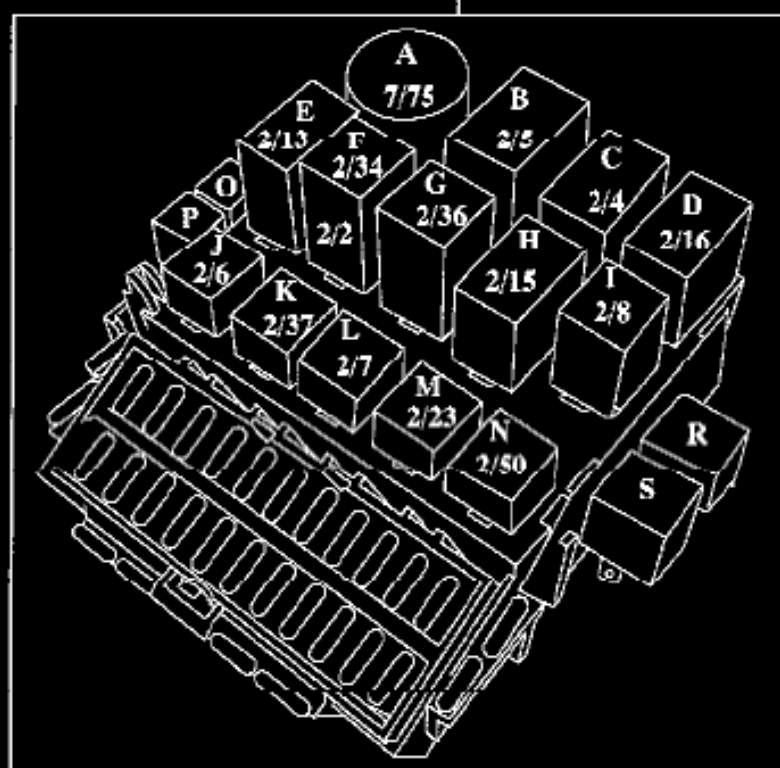
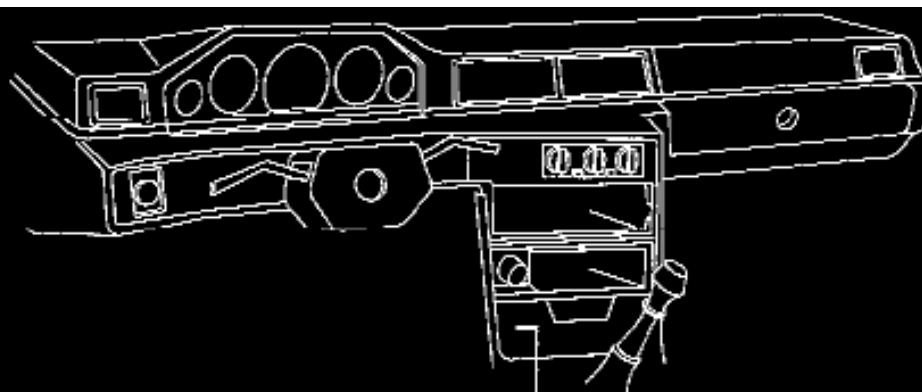
#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





Relays in electrical distribution unit

- |   |  |   |   |
|---|--|---|---|
| A | Bulb failure warning sensor (7/75)                           | J | Overload relay 15I (2/6)<br>(power windows/seat heater) |
| B | Seat belt reminder/key warning (2/5)<br>(USA, Canada, Korea) | K | Headlight (2/37)  |
| C | Windshield wiper intermittent relay (2/4)                    | L | Central lock (2/7)                                      |
| D | Tailgate wiper intermittent relay (2/16)                     | M | Fuel pump relay (2/23)                                  |
| E | Fuel injection (2/13)  | N | Overload relay high beam (2/50)<br>(not USA, Canada)    |
| F | Foglights, front (2/34 or 2/2 USA, Canada)                   | O | -   |
| G | Headlight flasher (2/36)                                     | P | -   |
| H | Exhaust temp. sensor (2/15) (Japan)                          | R | -   |
| I | Overdrive (2/8)  | S | -   |

Relay, front foglights (USA/CDN)

20 Right low beam

Beam width control

21 Left parking lights, front and rear

Number plate lights

Instrument and control panel lights

Ambient temperature sensor

22 Relay, front foglights (Europe)

Right parking lights, front and rear

Ashtray light, rear

Automatic transmission selector illumination

Lighting, switches and storage compartment in centre console

23 Heated front seats

24 ABS

25 Rear foglights (USA, Canada, Japan)

Disconnectable low beam (Nordic market, Netherlands, Belgium)

26 Amplifier, radio

Relays In Electrical Distribution Unit



### B 230 F, REX-I

### D24/D24TIC

#### Connector C50 (8-pin)

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C51 (8-pin)

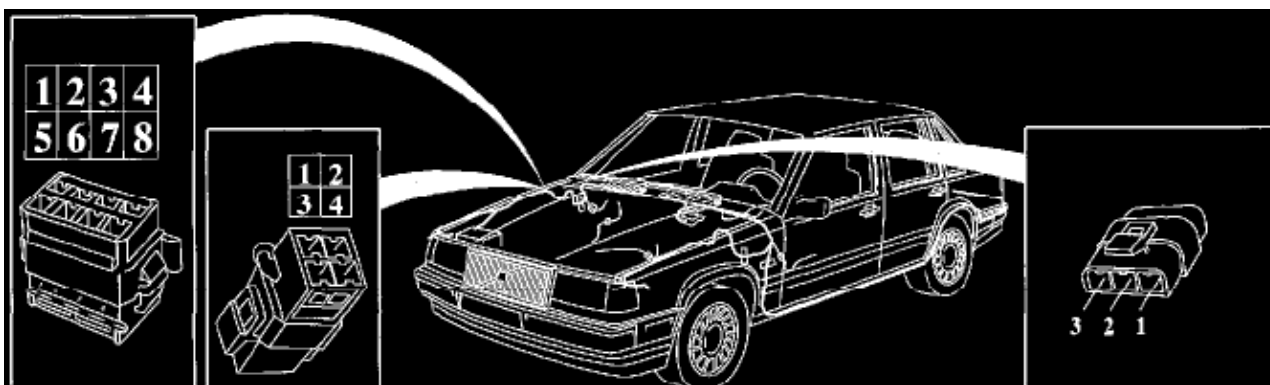
1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C117 (2-pin)

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



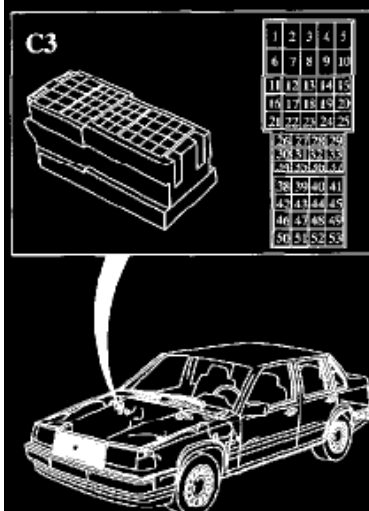
**Black connector C2 (53-pin)**  
Instrument panel - left wheel housing

B200F/FT, B230F/FA/FD/G/FT/GT-EZK (DI)			D24/D24TIC		
1	Starter motor 50	(BL-GN)	Starter motor 50		(BL-GN)
2	High beam, left	(BL-W)	Relay, glowplug mechanism pos. 3		
3	Low beam, left	(GN)	High beam, left		(BL-W)
3	Beam width control (Germany)	(GN-BN)	Low beam, left		(GN)
4	Horn +	(Y)	Beam width control (Germany)		(GN-BN)
4	Windshield wiper motor pos. 1		Horn +		(Y)
4	Headlight wiper motor (not USA/CDN)		Windshield wiper motor pos. 1		
5	Windshield wiper motor pos. 2	(GR)	Headlight wiper motor		
6	Windshield wiper motor pos. 3	(GN-W)	Windshield wiper motor pos. 2		(GR)
7	Windshield wiper motor pos. 4	(OR)	Windshield wiper motor pos. 3		(GN-W)
8	Front foglights	(W-SB)	Windshield wiper motor pos. 4		(OR)
9	Control module EZK (DI) pos. 5 (not FT/GT)	(BL)	Front foglights		(W-SB)
10	Control module EZK (DI) pos. 5 (not FT/GT)	(BN)	Relay, glowplug mechanism pos. 4		(BL)
10	B200FT, B230FT/GT:		Pos. 3, connector C51 at left suspension tower		
10	Battery +	(BN)	-		
10	Relay, radio interference suppression pos. 4		-		
11	On-board diagnostic (OBD) socket B pos. 5	(GR-OR)	On-board diagnostic (OBD) socket B pos. 5		(GR-OR)
12	On-board diagnostic (OBD) socket A pos. 3	(BL-P)	On-board diagnostic (OBD) socket A pos. 3		(BL-P)
13	Turn signal, left	(GN)	Turn signal, left		(GN)
14	Parking lights, left	(W)	Parking lights, left		(W)
15	Beam width control (Germany)	(GR)	Beam width control (Germany)		(GR)
16	Oil pressure sensor	(SB)	Oil pressure sensor		(SB)
17	Horn -	(BL-SB)	Horn -		(BL-SB)
18	Headlight wiper motor (not USA/CDN)	(BL-R)	Headlight wiper motor		(BL-R)
18	Windshield washer motor (not FT/GT)				
19	Brake fluid level sensor	(VO)	Brake fluid level sensor		(VO)
20	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)	Engine coolant temperature (ECT) sensor pos. 1		(Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)	Engine coolant temperature (ECT) sensor pos. 2		(Y-SB)
22	Generator D+	(R)	Generator D+		(R)
23	On-board diagnostic (OBD) socket B pos. 6	(BL-W)	On-board diagnostic (OBD) socket B pos. 6		(BL-W)
24	Service socket	(P)	Service socket		(P)
25	On-board diagnostic (OBD) socket A pos. 2	(GN-GR)(GN-W)			
26	Ignition Control Module (ICM) pos. 3	(BN-W)	-		
27	Power amplifier EZK (DI) pos. 1	(R-W)	Generator W		(R-W)
27	Ignition coil 1				
28	Ignition Control Module (ICM) pos. 6	(BL)	On-board diagnostic (OBD) socket A pos. 4		(BL)
28	Power amplifier EZK (DI) pos. 4				
28	On-board diagnostic (OBD) socket A pos. 4				
28	Converter, EGR (B230FD and B230FT California)				
29	Ignition Control Module (ICM) pos. 17	(Y-GR)	-		
30	-		Pressure sensor, turbodiesel (D24TIC)		(Y-R)
31	-		-		
32	B200FT, B230FT/GT:				
32	Ignition Control Module (ICM) pos. 5	(BN)(BN-W)	-		
32	Others: Washer fluid level sensor	(R-SB)(BL-W)	-		
33	B200FT, B230FT/GT:				
33	Relay, radio interference suppression pos. 2	(BL-Y)	-		
33	Others: Wiper motor, tailgate		-		
34	Door switch	(BN-SB)	Door switch		(BN-SB)
35	Door switch	(W-SB)	Door switch		(W-SB)
36	-		-		
37	Ignition Control Module (ICM) pos. 4	(GR-R)	Relay, glowplug mechanism pos. 1		(GR)
38	Ambient temperature sensor	(GN-Y)	Ambient temperature sensor		(GN-Y)
39	Ambient temperature sensor	(GN-R)	Ambient temperature sensor		(GN-R)
40	Anti-theft alarm, connector D4 pos. 1	(GR-W)	Anti-theft alarm, connector D4 pos. 1		(GR-W)
41	Anti-theft alarm, connector D4 pos. 2	(BN-P)	Anti-theft alarm, connector D4 pos. 2		(BN-P)
42	Control module cruise control pos. 10	(BN-GR)	-		
43	Control module cruise control pos. 2	(P-SB)	-		
44	Control module cruise control pos. 7	(BN-OR)	-		
45	Control module cruise control pos. 11	(BL-OR)	-		
46	Control module cruise control pos. 6	(BL-GR)	-		
47	Control module cruise control pos. 4	(OR-W)	-		
48	Control module cruise control pos. 3	(OR-SB)	-		
49	Control module cruise control pos. 13	(GN-OR)	-		
50	B230FD: Solenoid valve, pulsed secondary air injection (PAIR)	(BL-W)	-		
51	-		-		
52	-		-		
53	-		-		

Connector At Left A-post



Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness



Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - sill harness

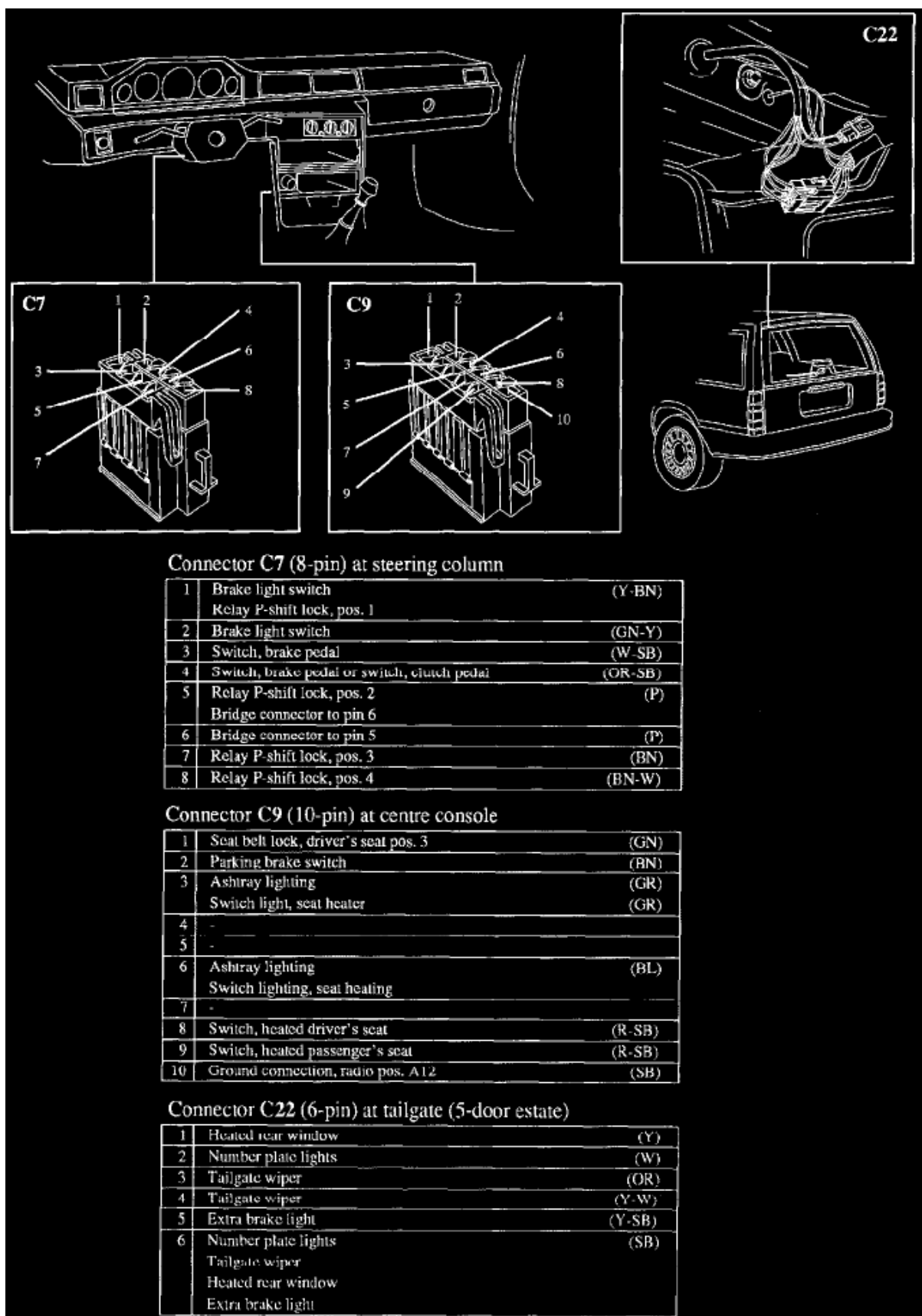
# B200F/G/FT, B230F/FB/FD/G/FT/GT

1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	B200FT, B230FT/GT: Washer motor, tailgate Others: L/H/Regina control module (MFI) pos. 30	(BL-Y) (P-W)
6	B200FT, B230FT/GT: LH (MFI) control module pos. 12 Others with EZK (DI): Ignition coil 15	(GN-GR) (BL)
7	B200FT, B230FT/GT: LH (MFI) control module pos. 30 Others: Battery + Relay, radio interference suppression pos. 2 and 4	(BN)   
8	Oxygen sensor (HO2S) heating	(P)
9	LH/Regina control module (MFI) pos. 9 Idle air control (IAC) valve pos. 1 Relay, radio interference suppression pos. 2 (not FT/GT) Mass air flow sensor (MAF) pos. 5 B200FT, B230FT/GT: PTC-resistor	(BL-Y)      
10	LH/Regina control module (MFI) pos. 35	(BL)
11	LH/Regina control module (MFI) pos. 22	(BN-W)
12	LH/Regina control module (MFI) pos. 4	(BN) (W)
13	Front foglights	(W-SB)
14	LH/Regina control module (MFI) pos. 20	(Y-SB)
15	Headlight wiper motor (not USA/CDN) LH/Regina control module (MFI) pos. 26 (USA/CDN)	(Y) (W-SB)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor (not USA, CDN) B230FT USA, CDN: Washer motor B200FT, B230FT/GT EU/AS: Headlight wiper motor Washer motor	(BL-R)      
18	LH/Regina control module (MFI) pos. 1	(Y-GR)
19	LH control module (MFI) pos. 28	(GR-R)
20	-	
21	LH control module (MFI) pos. 15	(GN-Y)
22	LH/Regina control module (MFI) pos. 21	(R)
23	-	
24	B200FT, B230FT/GT: Washer fluid level sensor Others: LH/Regina control module (MFI) pos. 12	(BL-W)   (GN-W)
25	LH/Regina control module (MFI) pos. 34	(VO-W)

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(W-SB) (BN-SB) (BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeaters	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post

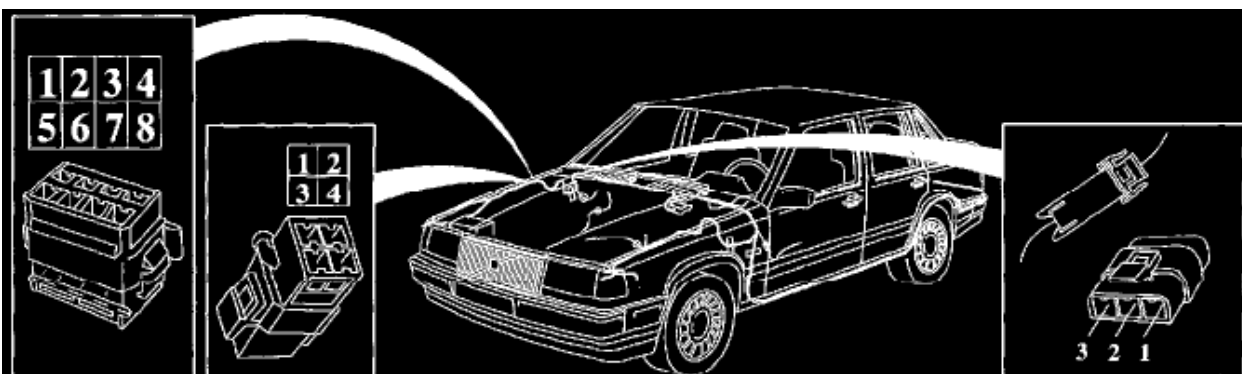




Connectors







### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





2/36 Headlight flasher  
2/37 Headlight relay  
2/38 Timer relay, exhaust gas recirculation (EGR)  
2/45 Relay, P-shift lock  
2/50 Bypass relay, high beam  
3/1 Ignition lock  
3/2 Light switch  
3/4 Cruise control operation  
3/5 Switch, turn signal/high-low beam  
3/6 Switch, hazard warning flashers  
3/7 Foglight switch  
3/8-1 Switch, heated rear window  
3/8-2 Switch with timer relay, heated rear window/door mirrors  
3/9 Brake light switch  
3/10 Backup (reversing) light switch  
3/12 Switch, windshield wash/wipe  
3/13 Switch, tailgate wash/wipe  
3/14 Switch, lock button  
3/15 Power window switch, driver's door for driver's door  
3/16 Power window switch, driver's door for driver's side rear door  
3/17 Power window switch, driver's door for passenger's side front  
3/18 Power window switch, driver's door for passenger's side rear  
3/19 Power window switch, driver's side rear  
3/20 Power window switch, passenger's side front  
3/21 Power window switch, passenger's side rear  
3/22 Switch for rear power window lifts  
3/23 Switch for power door mirror, driver's side  
3/24 Switch for power door mirror, passenger's side  
3/25 Switch for power sunroof  
3/26 Operating module, driver's seat  
3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 ontrol module LH-jetronic 2.4 (MFI) system



31/1 Ground connector right front wing



31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin

Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin



31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin

Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

C62 Connector, at windshield wiper motor, 4-pin

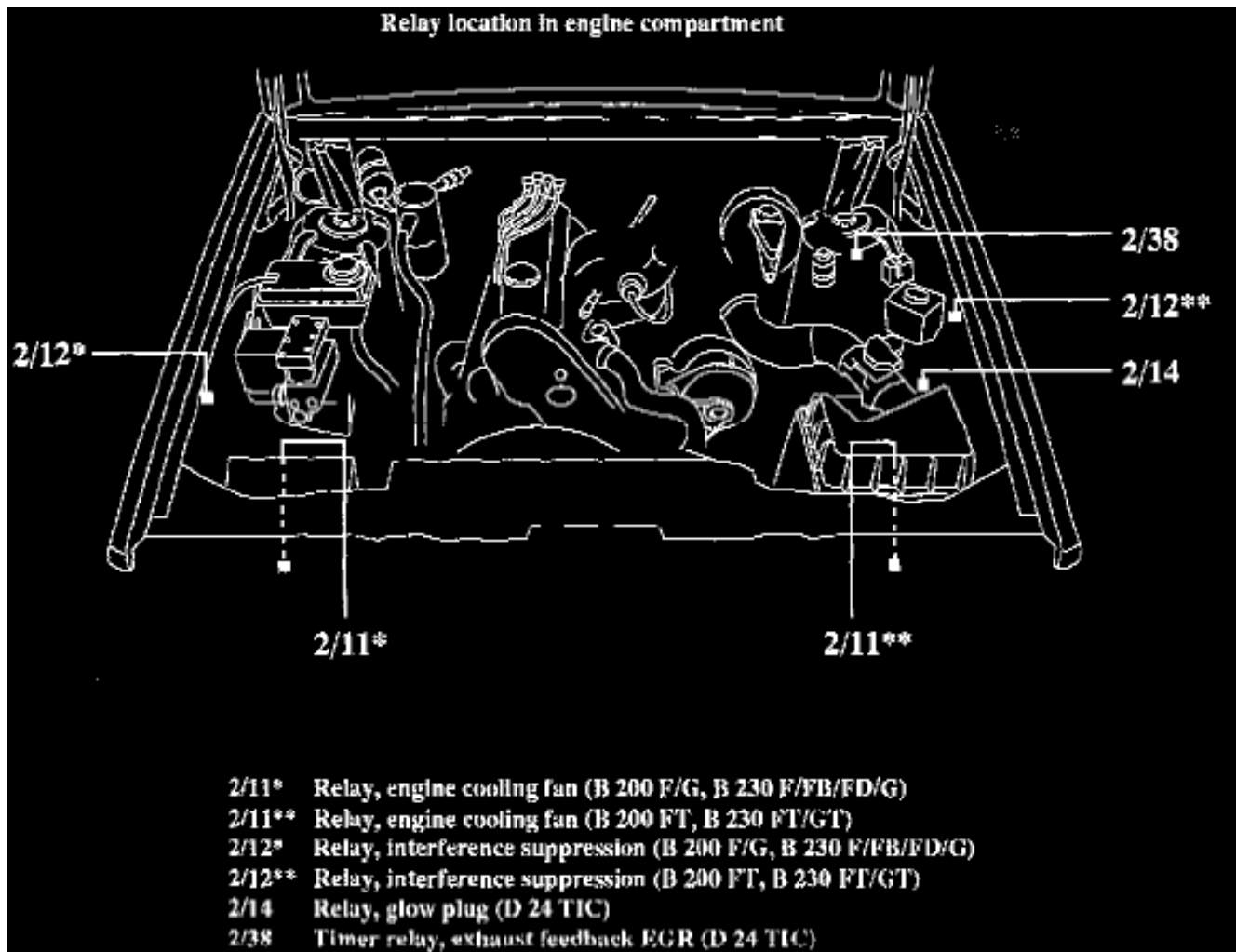
C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin



## Locations



Power Door Lock Relay: Locations

Relay Identification and Location

Relays In Engine Compartment

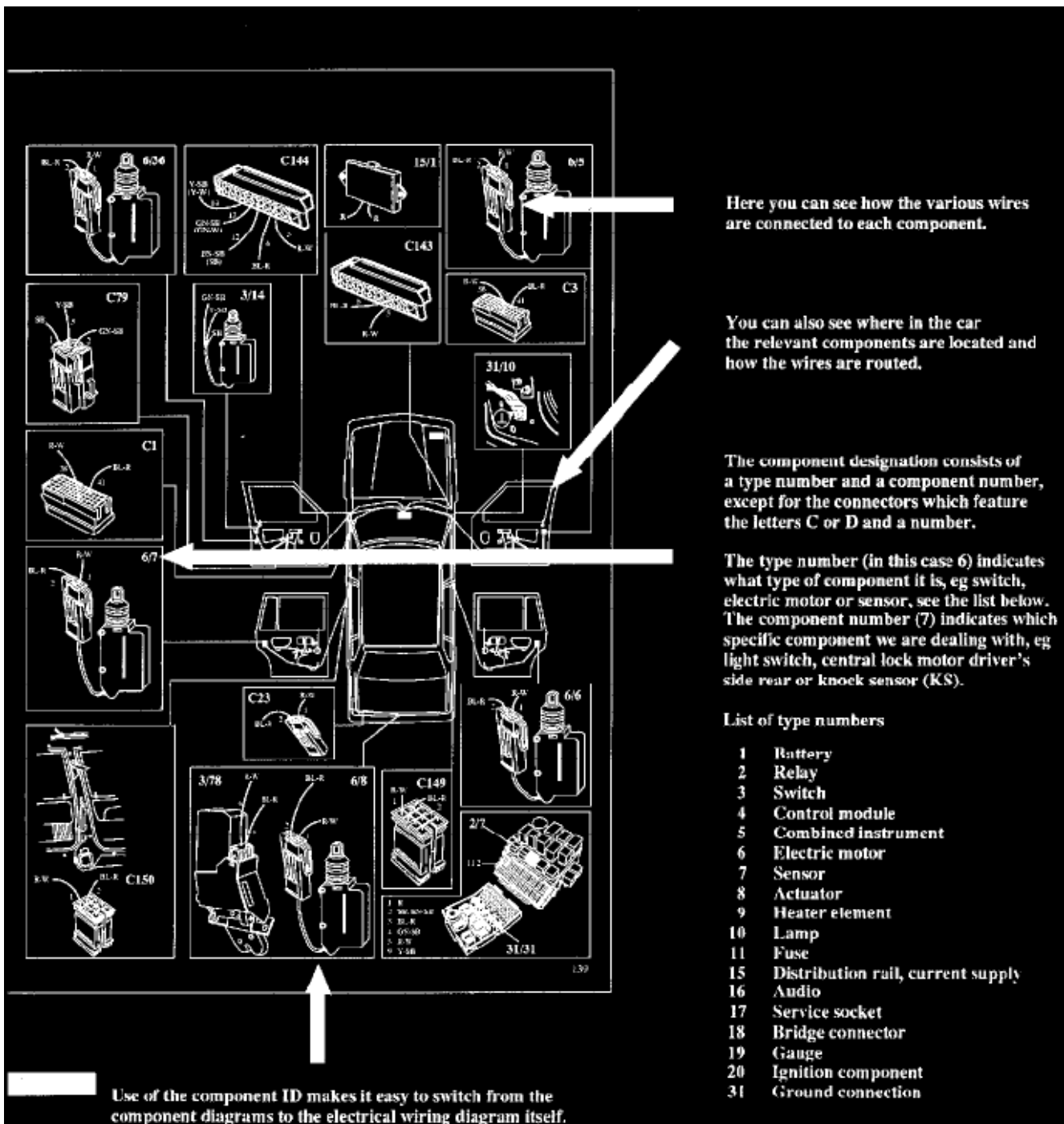


Diagram Information

Complete Component List

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection





20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor

Components 31/1 - 31/64

No. Component Name

31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

Wire Color Code Identification

SB = Black

GR = Grey

W = White

R = Red

BN = Brown

Y = Yellow

P = Pink

BL = Blue

GN = Green

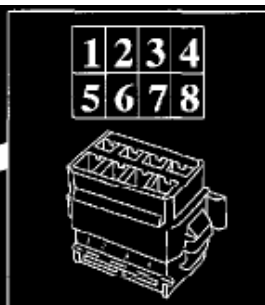
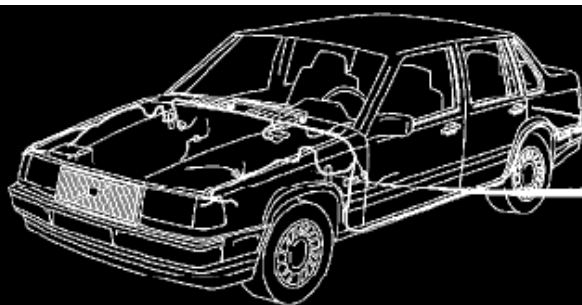
OR = Orange

VO = Violet

Y-GR = Yellow-Grey







### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

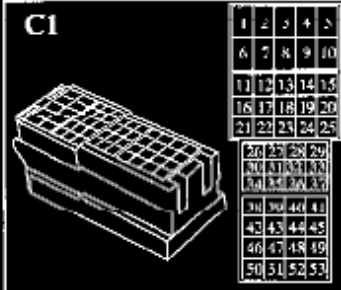
1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment

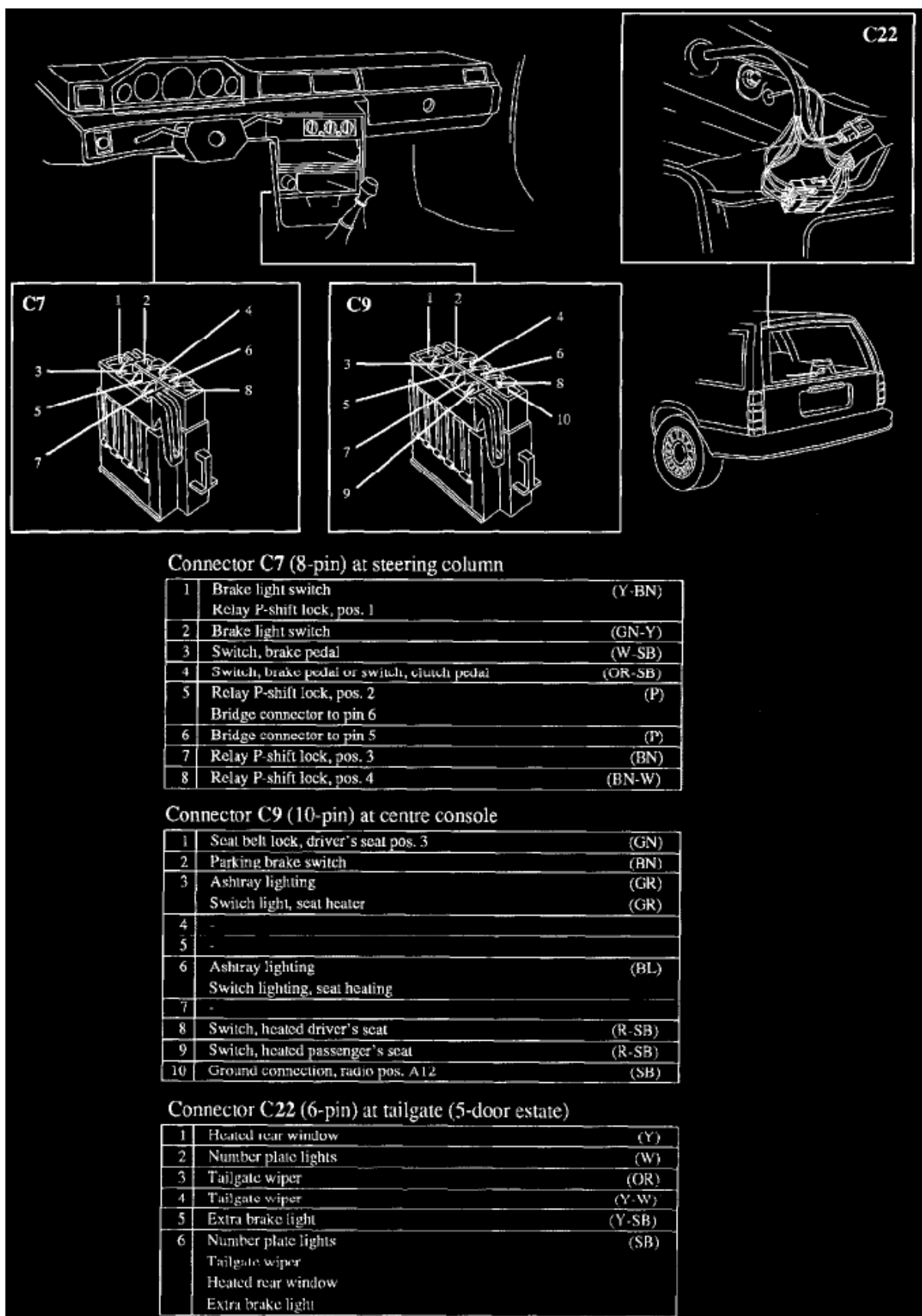


White connector C1 (53-pin)  
Instrument panel harness - sill harness

all models	
1	Tail lights (BN-W)
2	Tail lights (R)
3	Brake light, left (Y-R)
4	Brake light, right (Y)
5	Backup (reversing) lights (SB)
6	Number plate lights (W)
7	Turn signal, left rear (GN)
8	Turn signal, right rear (BL-GN)
9	Fuel level sensor/primer pump (pump) (GR-W)
10	Heated rear window (Y)
11	Sensor, speedometer - (BN-W)
12	Sensor, speedometer + (GN-W)
13	Door switch, pre-routed interior lighting (W-SB)
14	Towing hook pos. 10 (BL-GN)
15	Rear foglights (GR)
16	Fuel level sensor/primer pump (pump) (BN)
17	Fuel level sensor/primer pump (pump) (P)
18	Extra brake light (Y-SB)
19	Tailgate wiper (OR)
20	Tailgate wiper (Y-W)
21	Power antenna pos. 3 (GN-GR)
22	-
23	-
24	Ground connector, left A-post (BN-GR)
25	Towing hook pos. 9 (W-SB)
26	Towing hook pos. 7 (W)
27	Towing hook pos. 5 (GR)
28	Towing hook pos. 6 (Y-BN)
29	Door-open warning light, left rear Interior lighting Trunk light Power antenna pos. 1 (GN-R)
30	Interior lighting (BN-SB)
31	Connector, tailgate/trunk (anti-theft alarm) (BN-OR)
32	-
33	Loudspeaker rear parcel shelf right side + (GN-BN)
34	Loudspeaker rear parcel shelf right side - (GN)
35	Loudspeaker left rear door + Loudspeaker rear parcel shelf left side + (Y-W)
36	Loudspeaker left rear door - Loudspeaker rear parcel shelf left side - (W)
37	-
38	Central locking, rear door Central locking, tailgate/trunk (R-W)
39	-
40	-
41	Central locking, rear door Central locking, tailgate/trunk (BL-R)
42	-
43	-
44	-
45	-
46	-
47	-
48	-
49	-
50	Power window lift motor, rear door (GN)
51	Power window lift motor, rear door (GR)
52	-
53	Power window lift motor, rear door ON/OFF (P)

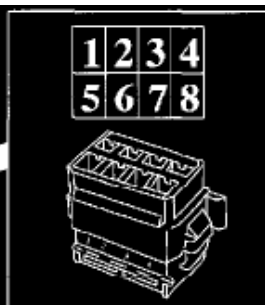
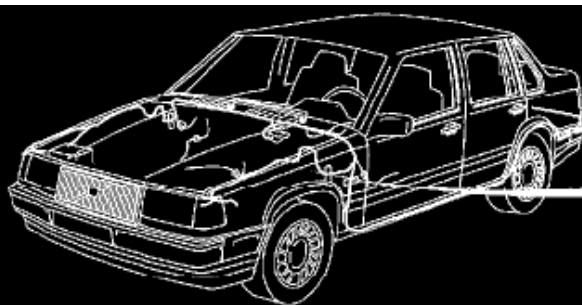
Connector At Left A-post





Connectors





### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)	-	
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
8	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
9	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

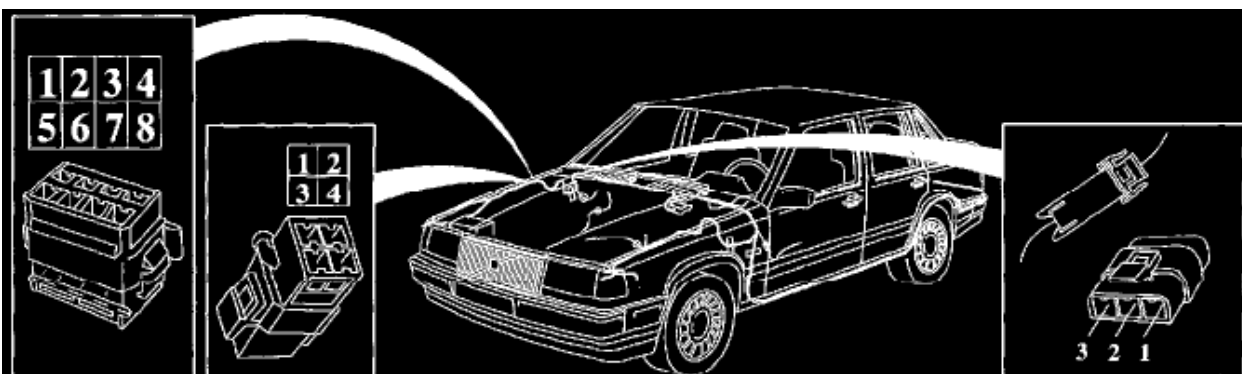
#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment







### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)



Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness

# D24/D24TTC

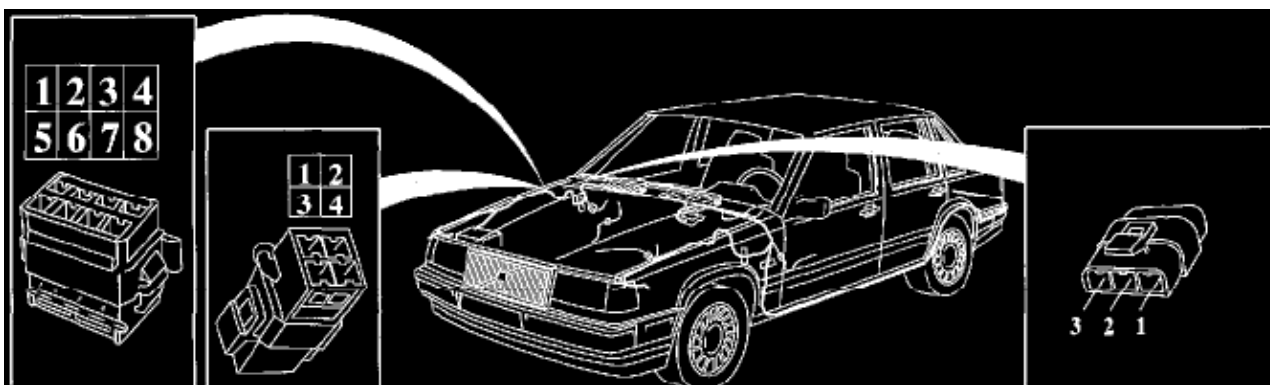
1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	Washer motor, tailgate	(BL-Y)
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	Front foglights	(W-SB)
14	-	
15	Headlight wiper motor	(Y)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor	(BL-R)
	Washer motor	
18	-	
19	-	
20	-	
21	-	
22	-	
23	-	
24	Washer fluid level sensor	(BL-W)
25	-	

Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - door sill harness

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeater	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

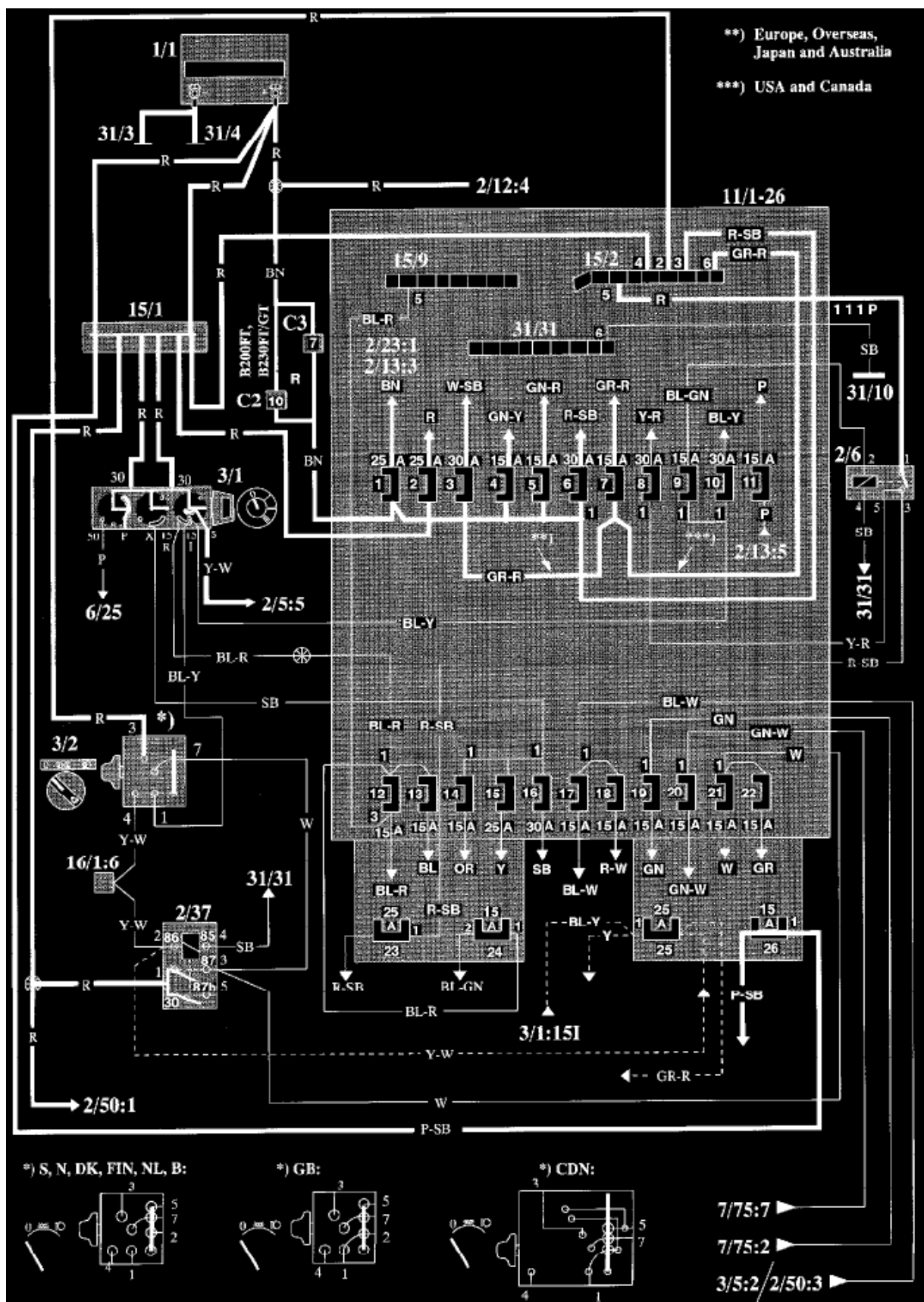
#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





Electrical Distribution Unit, Fuses

Wiring Diagram

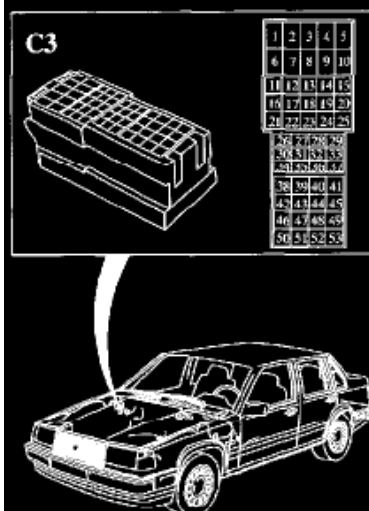
Component I.D. List

Fuse no. Function





Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness



Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - sill harness

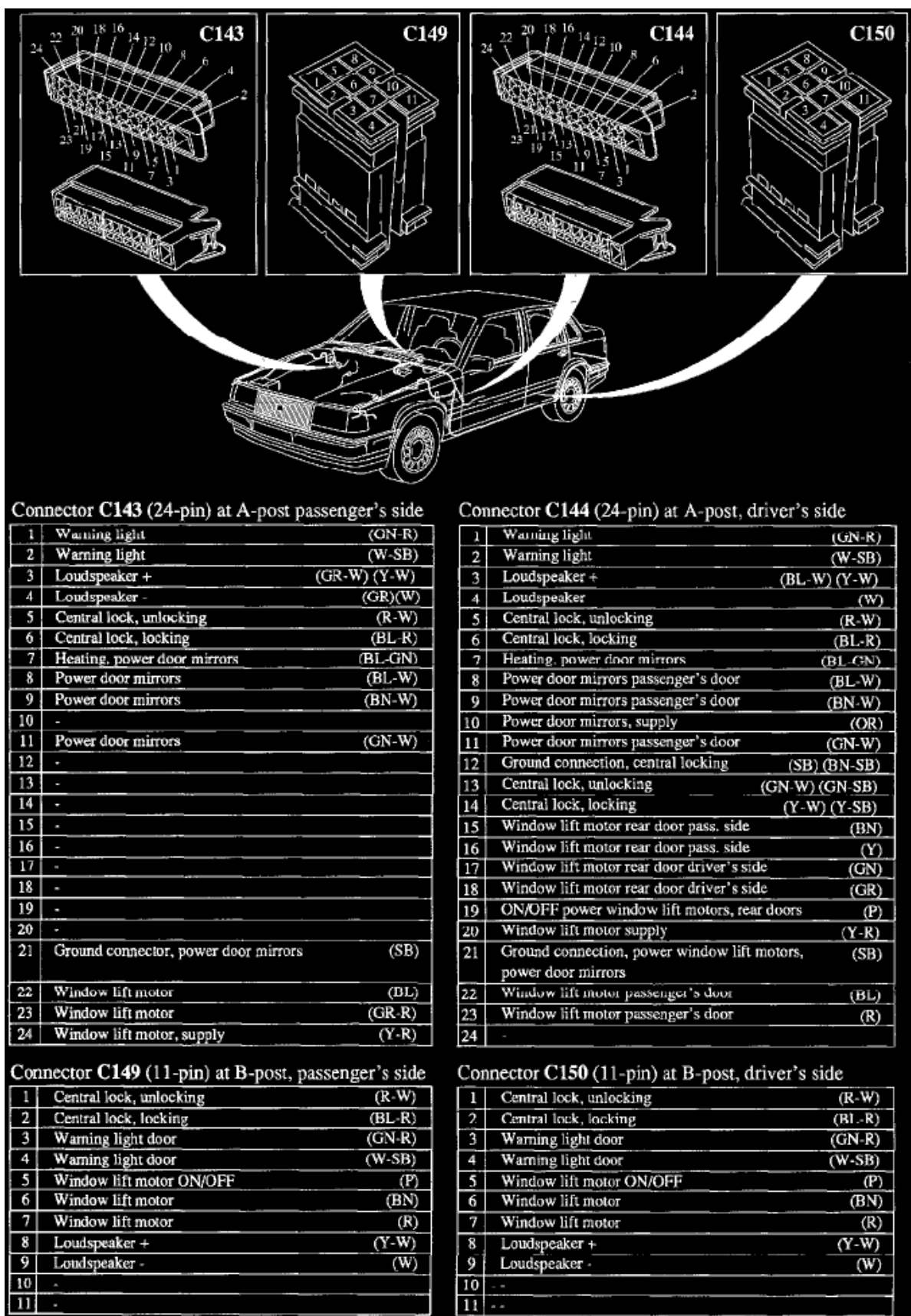
# B200F/G/FT, B230F/FB/FD/G/FT/GT

1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	B200FT, B230FT/GT: Washer motor, tailgate Others: L/H/Regina control module (MFI) pos. 30	(BL-Y) (P-W)
6	B200FT, B230FT/GT: LH (MFI) control module pos. 12 Others with EZK (DI): Ignition coil 15	(GN-GR) (BL)
7	B200FT, B230FT/GT: LH (MFI) control module pos. 30 Others: Battery + Relay, radio interference suppression pos. 2 and 4	(BN)   
8	Oxygen sensor (HO2S) heating	(P)
9	L/H/Regina control module (MFI) pos. 9 Idle air control (IAC) valve pos. 1 Relay, radio interference suppression pos. 2 (not FT/GT) Mass air flow sensor (MAF) pos. 5 B200FT, B230FT/GT: PTC-resistor	(BL-Y)      
10	L/H/Regina control module (MFI) pos. 35	(BL)
11	L/H/Regina control module (MFI) pos. 22	(BN-W)
12	L/H/Regina control module (MFI) pos. 4	(BN) (W)
13	Front foglights	(W-SB)
14	L/H/Regina control module (MFI) pos. 20	(Y-SB)
15	Headlight wiper motor (not USA/CDN) L/H/Regina control module (MFI) pos. 26 (USA/CDN)	(Y) (W-SB)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor (not USA, CDN) B230FT USA, CDN: Washer motor B200FT, B230FT/GT EU/AS: Headlight wiper motor Washer motor	(BL-R)     
18	L/H/Regina control module (MFI) pos. 1	(Y-GR)
19	L/H control module (MFI) pos. 28	(GR-R)
20	-	
21	L/H control module (MFI) pos. 15	(GN-Y)
22	L/H/Regina control module (MFI) pos. 21	(R)
23	-	
24	B200FT, B230FT/GT: Washer fluid level sensor Others: L/H/Regina control module (MFI) pos. 12	(BL-W)   (GN-W)
25	L/H/Regina control module (MFI) pos. 34	(VO-W)

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(W-SB) (BN-SB) (BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeaters	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

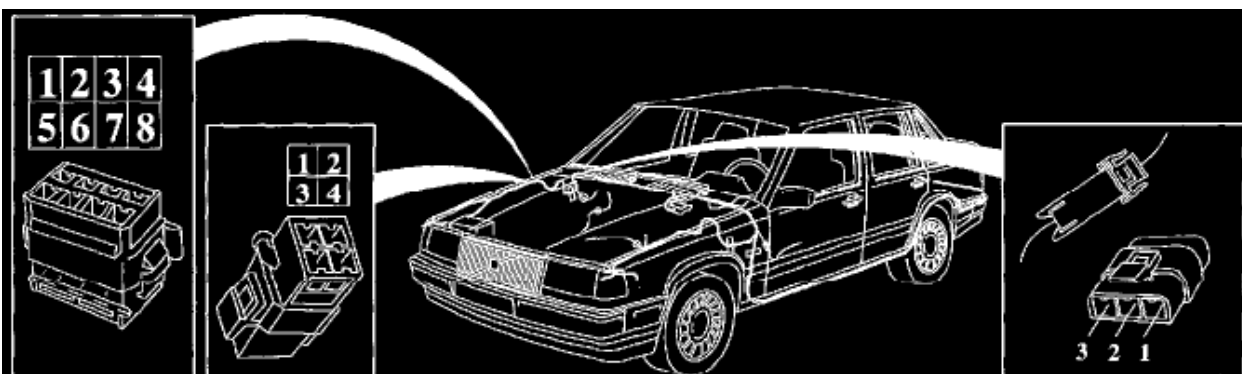
Connector At Right A-post





Connectors For Doors





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

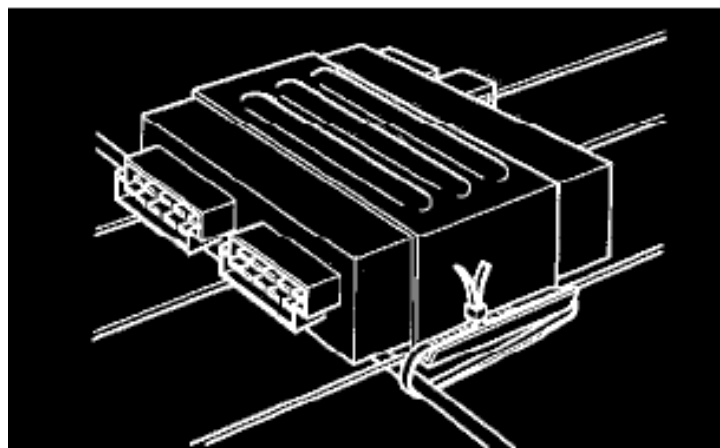
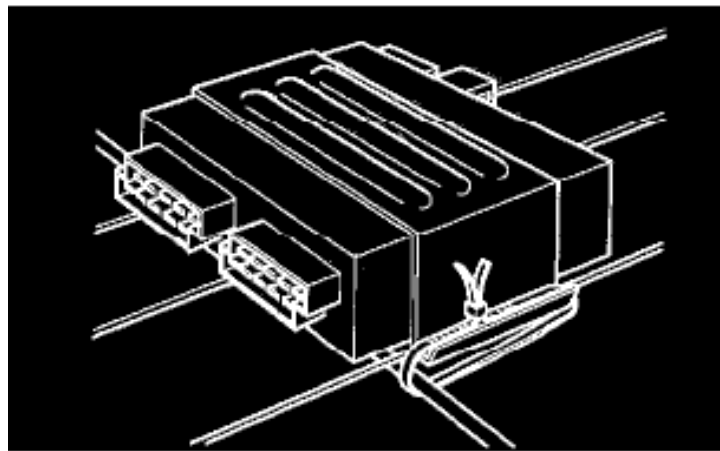
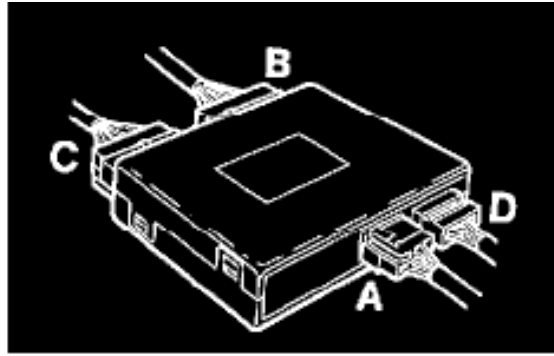
#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





Power Seat Control Module: Service and Repair



Control module for power seat, change

Remove:

Preparations

- Remove battery negative lead and note any radio code.
- Remove seat from vehicle. See: Body and Frame/Seats/Service and Repair/Remove Seat From Vehicle

Connector

- Disconnect all 4 control module connectors.

Remove control module

- Unhook control module fixing plate at front edge.
- Lift fixing plate clear at front edge and remove control module.

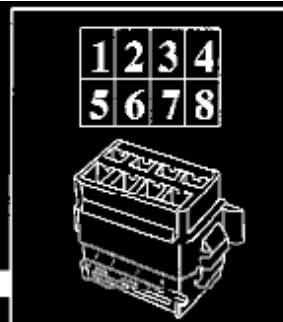
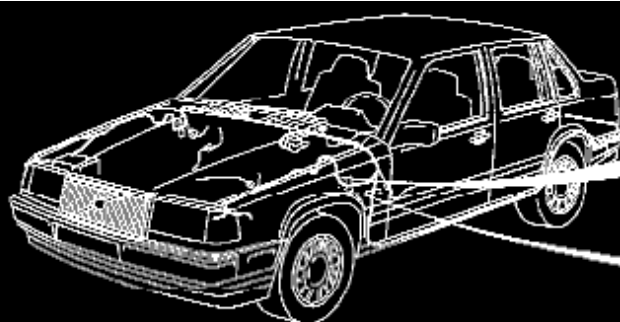
Replace:

Replacement of control module

- Replace control module.
- Replace fixing plate at front edge.
- Replace the 4 connectors. Check that connectors are properly connected.

Replacement

- Replace seat in vehicle. See: Body and Frame/Seats/Service and Repair/Remove Seat From Vehicle
- Replace battery negative lead.



### B 230 F, REX-I

### D24/D24TIC

#### Connector C50 (8-pin)

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

#### Connector C51 (8-pin)

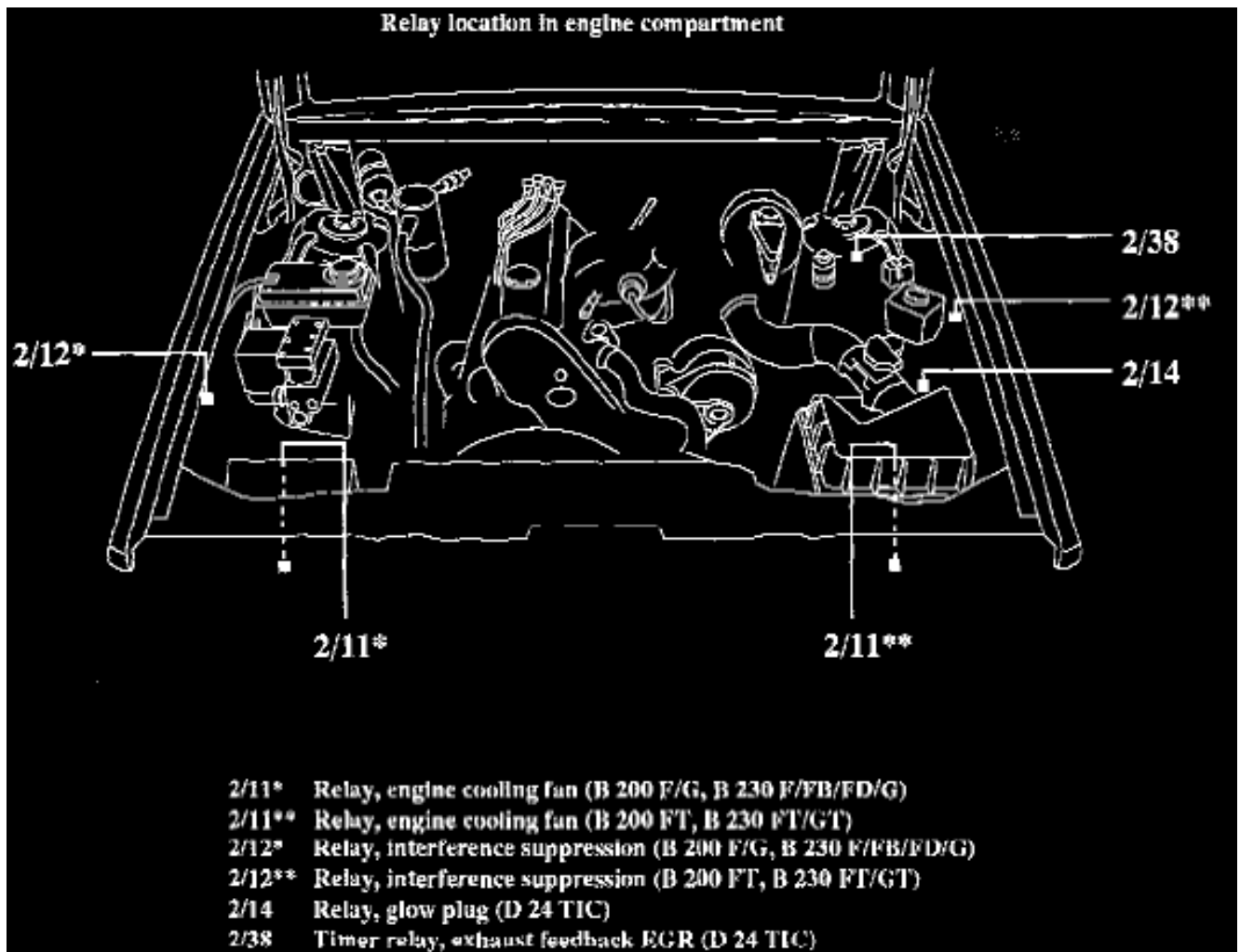
1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

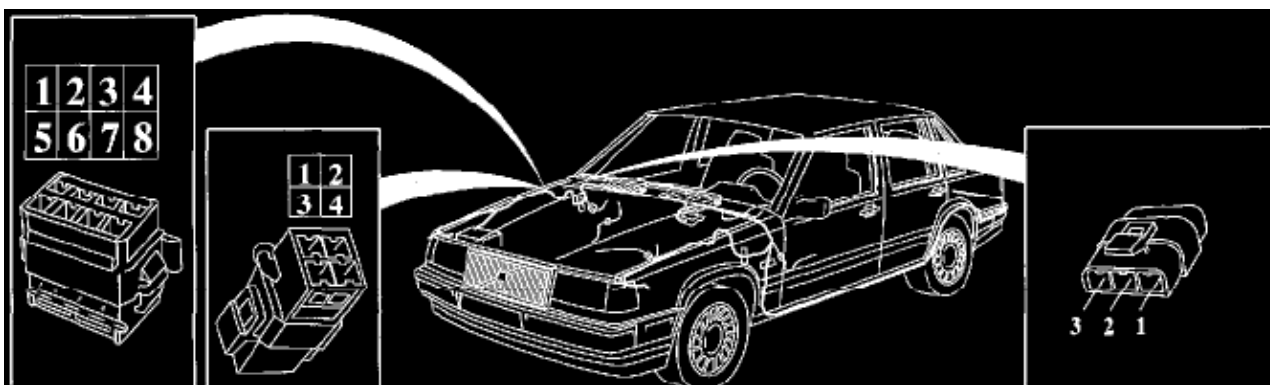
#### Connector C117 (2-pin)

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	



Relays In Engine Compartment





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	



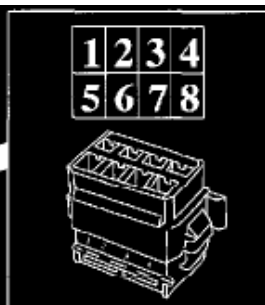
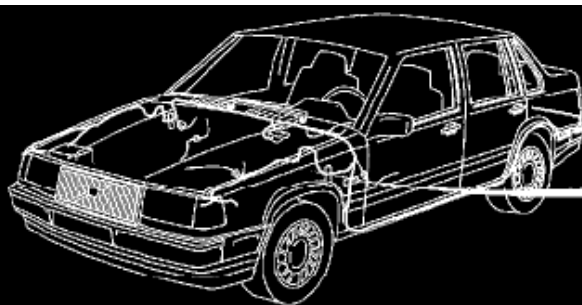
**Black connector C2 (53-pin)**  
Instrument panel - left wheel housing

	B200F/FT, B230F/FB/FTD/G/FT/GT-EZK (DI)	D24/D24TIC
1	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN) Relay, glowplug mechanism pos. 3
2	High beam, left (BL-W)	High beam, left (BL-W)
3	Low beam, left (GN)	Low beam, left (GN)
	Beam width control (Germany) (GN-BN)	Beam width control (Germany) (GN-BN)
4	Horn + (Y) Windshield wiper motor pos. 1 Headlight wiper motor (not USA/CDN)	Horn + (Y) Windshield wiper motor pos. 1 Headlight wiper motor
5	Windshield wiper motor pos. 2 (GR)	Windshield wiper motor pos. 2 (GR)
6	Windshield wiper motor pos. 3 (GN-W)	Windshield wiper motor pos. 3 (GN-W)
7	Windshield wiper motor pos. 4 (OR)	Windshield wiper motor pos. 4 (OR)
8	Front foglights (W-SB)	Front foglights (W-SB)
9	Control module EZK (DI) pos. 5 (not FT/GT) (BL) (BN)	Relay, glowplug mechanism pos. 4 Pos. 3, connector C51 at left suspension tower
10	B200FT, B230FT/GT: Battery + (BN) Relay, radio interference suppression pos. 4	
11	On-board diagnostic (OBD) socket B pos. 5 (GR-OR)	On-board diagnostic (OBD) socket B pos. 5 (GR-OR)
12	On-board diagnostic (OBD) socket A pos. 3 (BL-P)	On-board diagnostic (OBD) socket A pos. 3 (BL-P)
13	Turn signal, left (GN)	Turn signal, left (GN)
14	Parking lights, left (W)	Parking lights, left (W)
15	Beam width control (Germany) (GR)	Beam width control (Germany) (GR)
16	Oil pressure sensor (SB)	Oil pressure sensor (SB)
17	Horn - (BL-SB)	Horn - (BL-SB)
18	Headlight wiper motor (not USA/CDN) (BL-R) Windshield washer motor (not FT/GT)	Headlight wiper motor (BL-R)
19	Brake fluid level sensor (VO)	Brake fluid level sensor (VO)
20	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)
22	Generator D+ (R)	Generator D+ (R)
23	On-board diagnostic (OBD) socket B pos. 6 (BL-W)	On-board diagnostic (OBD) socket B pos. 6 (BL-W)
24	Service socket (P)	Service socket (P)
25	On-board diagnostic (OBD) socket A pos. 2 (GN-GR/GN-W)	
26	Ignition Control Module (ICM) pos. 3 (BN-W)	
27	Power amplifier EZK (DI) pos. 1 (R-W) Ignition coil 1	Generator W (R-W)
28	Ignition Control Module (ICM) pos. 6 (BL) Power amplifier EZK (DI) pos. 4 On-board diagnostic (OBD) socket A pos. 4 Converter, EGR (B230FD and B230FT California)	On-board diagnostic (OBD) socket A pos. 4 (BL)
29	Ignition Control Module (ICM) pos. 17 (Y-GR)	
30	-	Pressure sensor, turbodiesel (D24TIC) (Y-R)
31	-	
32	B200FT, B230FT/GT: Ignition Control Module (ICM) pos. 5 (BN)(BN-W) Others: Washer fluid level sensor (R-SB)(BL-W)	
33	B200FT, B230FT/GT: Relay, radio interference suppression pos. 2 (BL-Y) Others: Wiper motor, tailgate	
34	Door switch (BN-SB)	Door switch (BN-SB)
35	Door switch (W-SB)	Door switch (W-SB)
36	-	
37	Ignition Control Module (ICM) pos. 4 (GR-R)	Relay, glowplug mechanism pos. 1 (GR)
38	Ambient temperature sensor (GN-Y)	Ambient temperature sensor (GN-Y)
39	Ambient temperature sensor (GN-R)	Ambient temperature sensor (GN-R)
40	Anti-theft alarm, connector D4 pos. 1 (GR-W)	Anti-theft alarm, connector D4 pos. 1 (GR-W)
41	Anti-theft alarm, connector D4 pos. 2 (BN-P)	Anti-theft alarm, connector D4 pos. 2 (BN-P)
42	Control module cruise control pos. 10 (BN-GR)	
43	Control module cruise control pos. 2 (P-SB)	
44	Control module cruise control pos. 7 (BN-OR)	
45	Control module cruise control pos. 11 (BL-OR)	
46	Control module cruise control pos. 6 (BL-GR)	
47	Control module cruise control pos. 4 (OR-W)	
48	Control module cruise control pos. 3 (OR-SB)	
49	Control module cruise control pos. 13 (GN-OR)	
50	B230FD: Solenoid valve, pulsed secondary air injection (PAIR) (BL-W)	
51	-	
52	-	
53	-	

Connector At Left A-post







### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)	-	
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

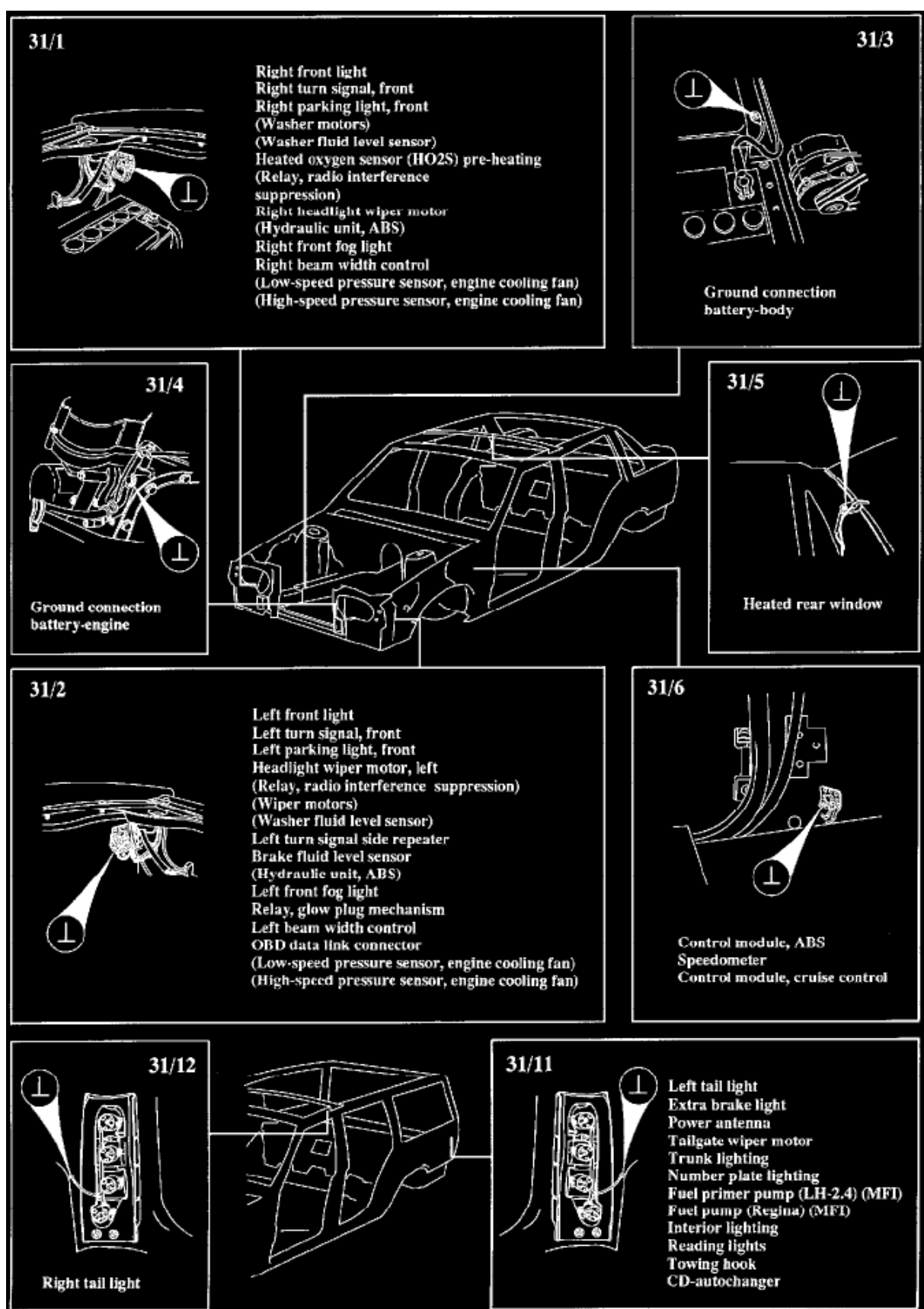
#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment





Ground Connections



3/10 Backup (reversing) light switch

3/12 Switch, windshield wash/wipe

3/13 Switch, tailgate wash/wipe

3/14 Switch, lock button

3/15 Power window switch, driver's door for driver's door

3/16 Power window switch, driver's door for driver's side rear door

3/17 Power window switch, driver's door for passenger's side front

3/18 Power window switch, driver's door for passenger's side rear

3/19 Power window switch, driver's side rear

3/20 Power window switch, passenger's side front

3/21 Power window switch, passenger's side rear

3/22 Switch for rear power window lifts

3/23 Switch for power door mirror, driver's side

3/24 Switch for power door mirror, passenger's side

3/25 Switch for power sunroof

3/26 Operating module, driver's seat

3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

Components 4/1 - 6/39

No. Component Name

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 Control module LH-jetronic 2.4 (MFI) system

4/25 Control module Regina (MFI) system

4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

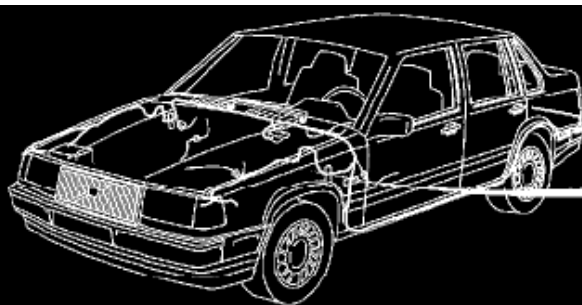
5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front







1	2	3	4
5	6	7	8



### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-		Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin)	(BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin)	(BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin)	(Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)
8	-		-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)	Oil pressure sensor	(SB)
3	Ground, control module EZK pos. 20	(BN) (BN-SB)	Ground, ICM pos. 20	(BN)
4	Generator D+	(R)	Generator D+	(R)
5	Starter motor 50	(BL-GN)	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)	Throttle position (TP) switch pos. 1	(OR)
7	Pos. 8, connector C54 at right suspension tower		Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2	(R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

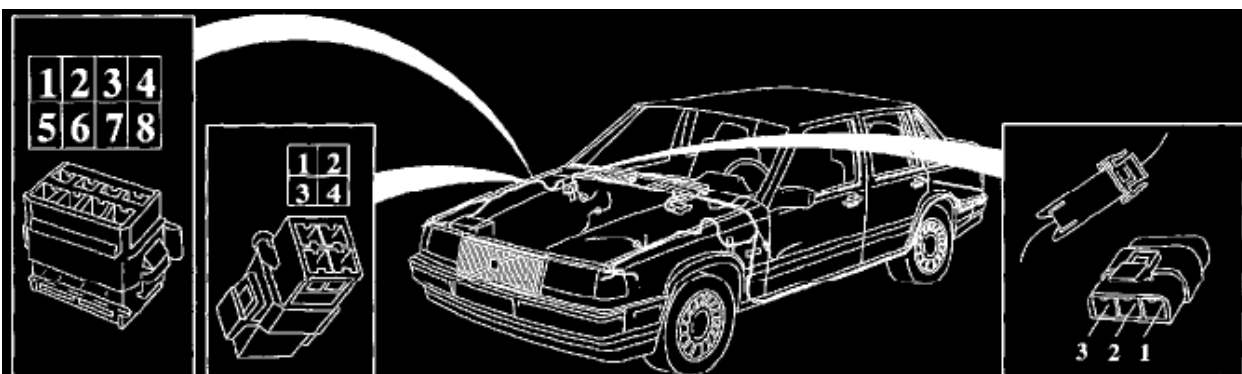
#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1	(R-W)	Ignition coil 1	(R-W)
2	All: Ground, power amplifier EZK (DI) B230FD and B230FT California; Ground, control module EZK (DI) pos. 14	(SB)	All: Ground, power amplifier EZK (DI) California; Ground, ICM pos. 14	(SB)
3	B230FD and B230FT California; Temp. sensor, EGR pos. 1	(Y-SB)	Temperature sensor EGR pos. 1 (California)	(Y-SB)
5	Mass air flow (MAF) sensor pos. 1	(BN)	Ignition coil 15	(BL)
6	Knock sensor (KS) pos. 1	(GN)	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)	Knock sensor (KS) pos. 2	(SB)
8	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD)	(Y-R)	-	

Connector In Engine Compartment





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)



Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness

#### D24/D24TTC

1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	Washer motor, tailgate	(BL-Y)
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	Front foglights	(W-SB)
14	-	
15	Headlight wiper motor	(Y)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor	(BL-R)
	Washer motor	
18	-	
19	-	
20	-	
21	-	
22	-	
23	-	
24	Washer fluid level sensor	(BL-W)
25	-	

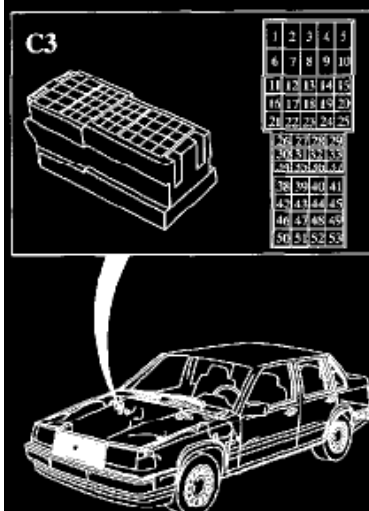
Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - door sill harness

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeater	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post



Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness



Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - sill harness

# B200F/G/FT, B230F/FB/FD/G/FT/GT

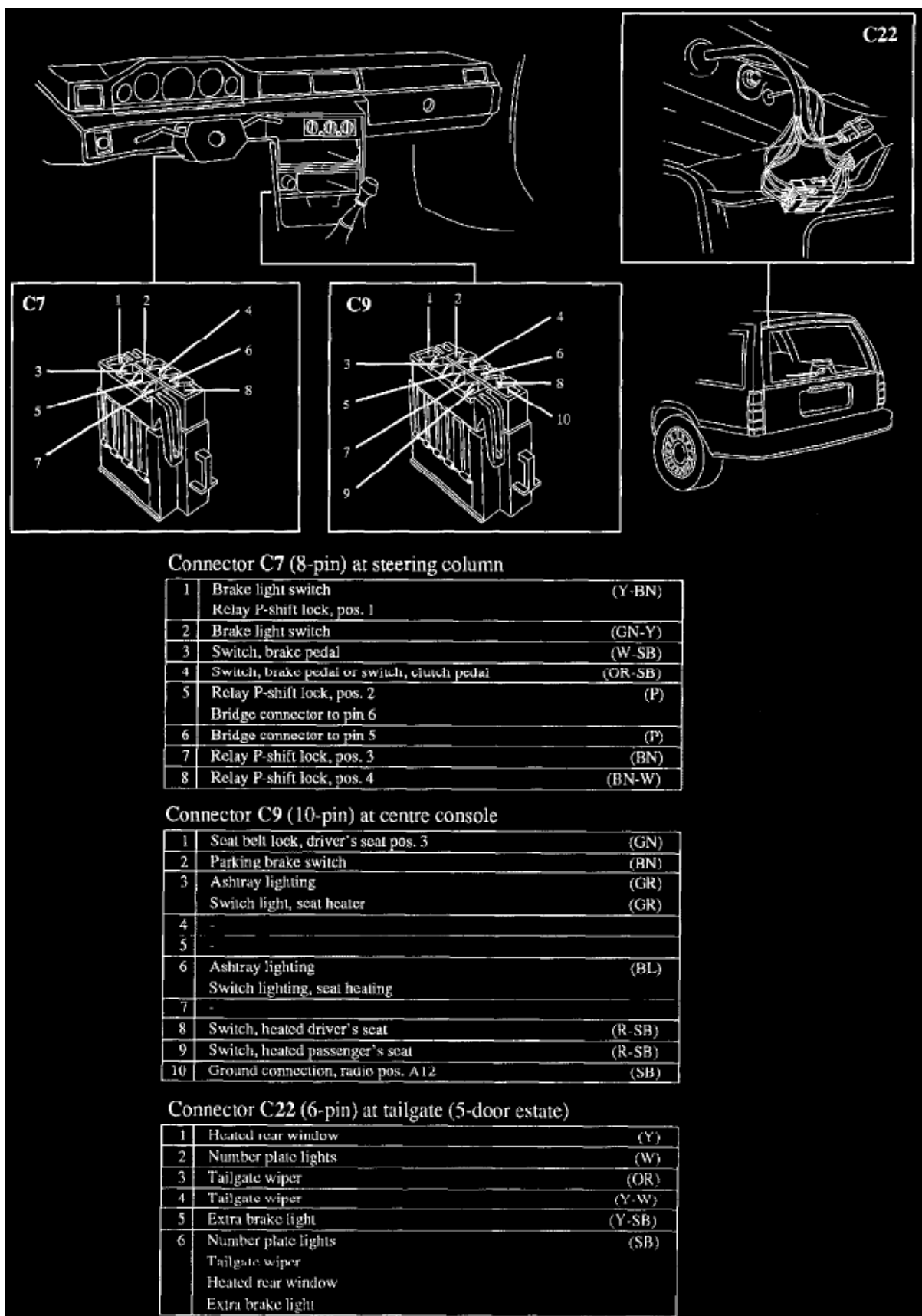
1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	B200FT, B230FT/GT: Washer motor, tailgate Others: L/H/Regina control module (MFI) pos. 30	(BL-Y) (P-W)
6	B200FT, B230FT/GT: LH (MFI) control module pos. 12 Others with EZK (DI): Ignition coil 15	(GN-GR) (BL)
7	B200FT, B230FT/GT: LH (MFI) control module pos. 30 Others: Battery + Relay, radio interference suppression pos. 2 and 4	(BN)   
8	Oxygen sensor (HO2S) heating	(P)
9	LH/Regina control module (MFI) pos. 9 Idle air control (IAC) valve pos. 1 Relay, radio interference suppression pos. 2 (not FT/GT) Mass air flow sensor (MAF) pos. 5 B200FT, B230FT/GT: PTC-resistor	(BL-Y)      
10	LH/Regina control module (MFI) pos. 35	(BL)
11	LH/Regina control module (MFI) pos. 22	(BN-W)
12	LH/Regina control module (MFI) pos. 4	(BN) (W)
13	Front foglights	(W-SB)
14	LH/Regina control module (MFI) pos. 20	(Y-SB)
15	Headlight wiper motor (not USA/CDN) LH/Regina control module (MFI) pos. 26 (USA/CDN)	(Y) (W-SB)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor (not USA, CDN) B230FT USA, CDN: Washer motor B200FT, B230FT/GT EU/AS: Headlight wiper motor Washer motor	(BL-R)     
18	LH/Regina control module (MFI) pos. 1	(Y-GR)
19	LH control module (MFI) pos. 28	(GR-R)
20	-	
21	LH control module (MFI) pos. 15	(GN-Y)
22	LH/Regina control module (MFI) pos. 21	(R)
23	-	
24	B200FT, B230FT/GT: Washer fluid level sensor Others: LH/Regina control module (MFI) pos. 12	(BL-W)   (GN-W)
25	LH/Regina control module (MFI) pos. 34	(VO-W)

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(W-SB) (BN-SB) (BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeaters	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post

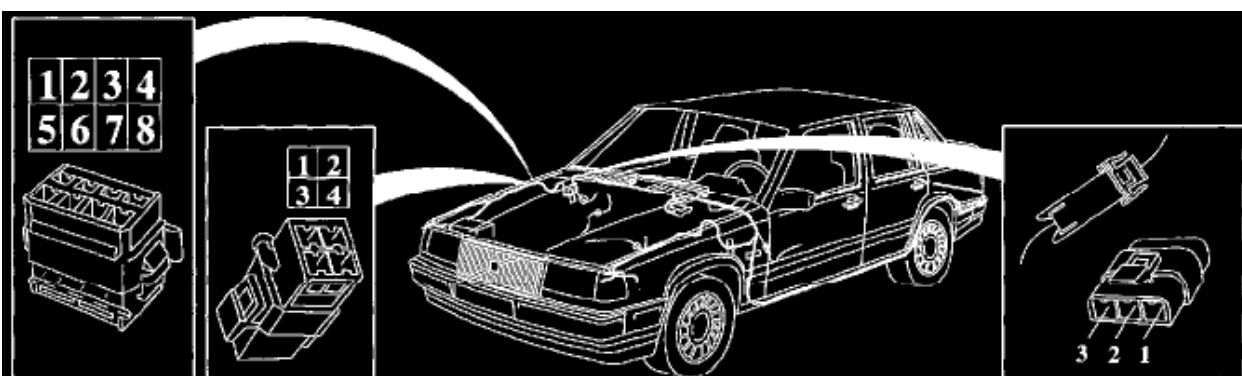






Connectors





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

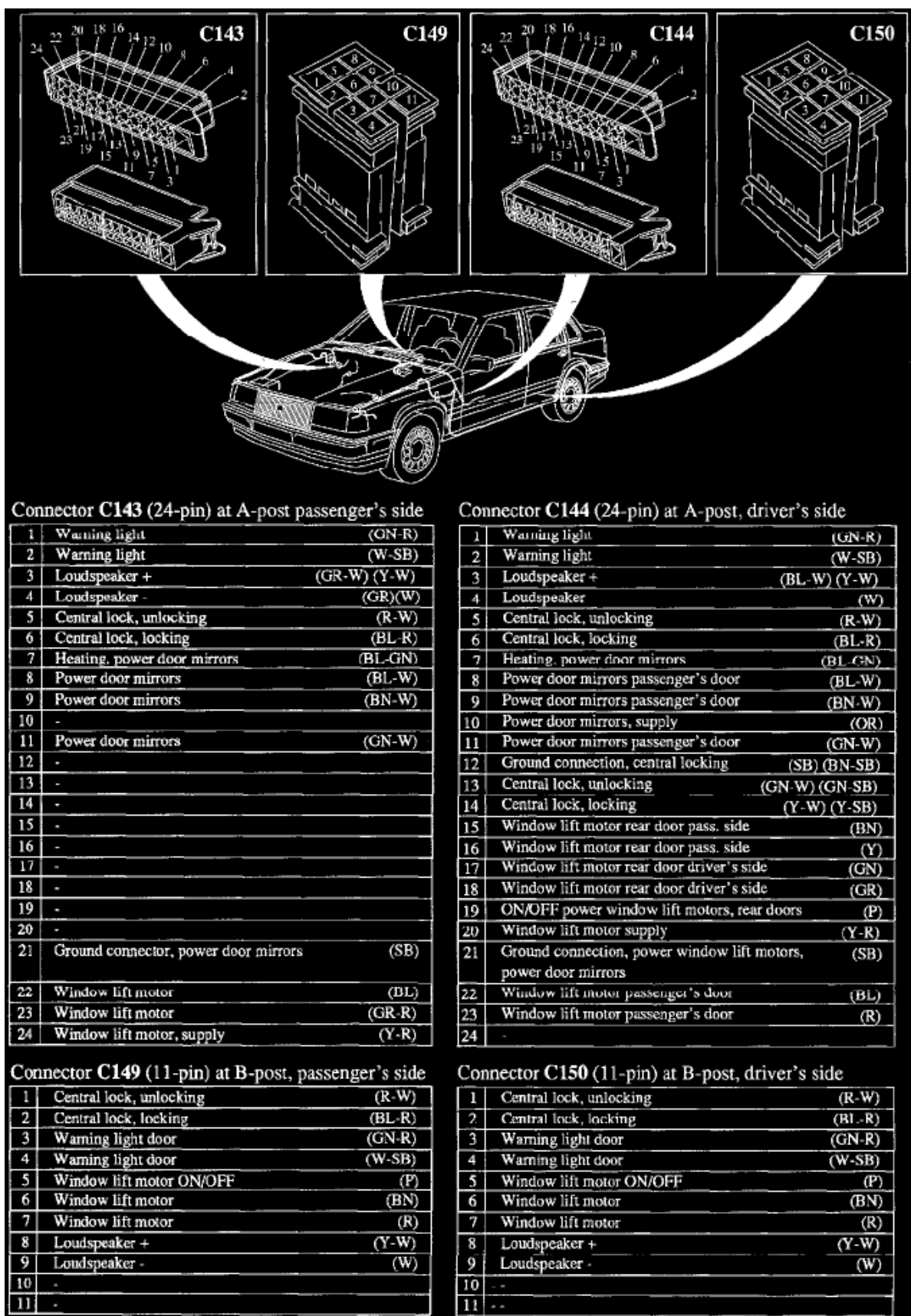
#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





Connectors For Doors



31/1 Ground connector right front wing



31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin

Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

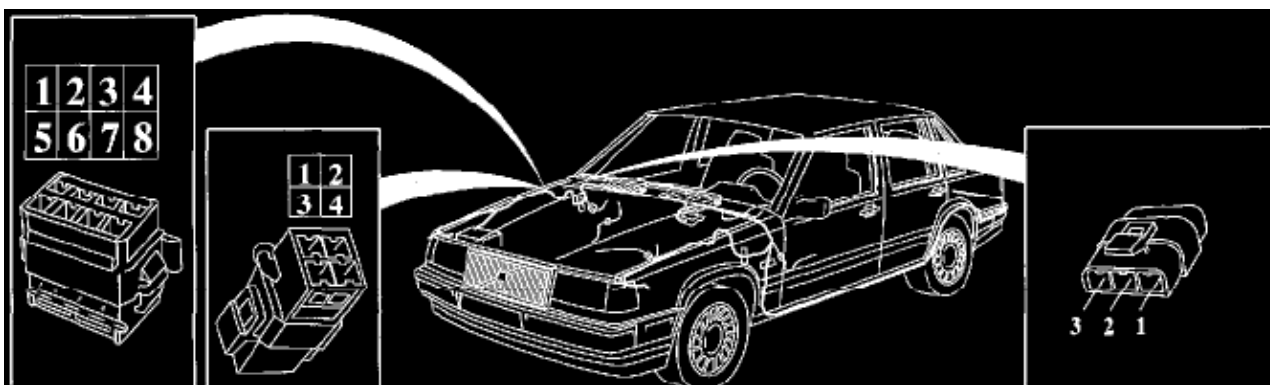
C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

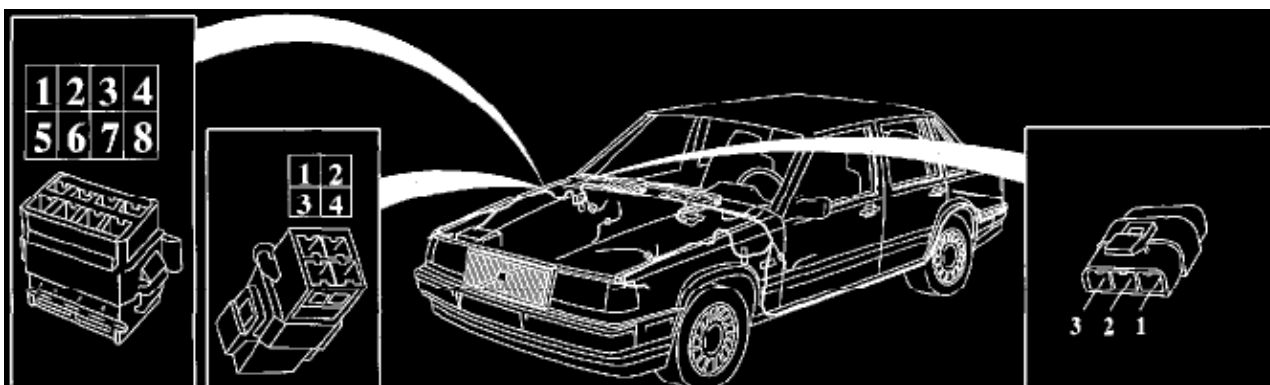
#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

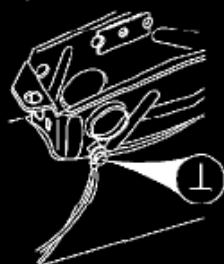
#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



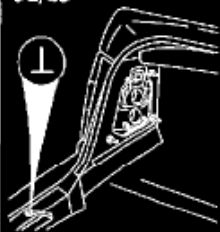


31/9

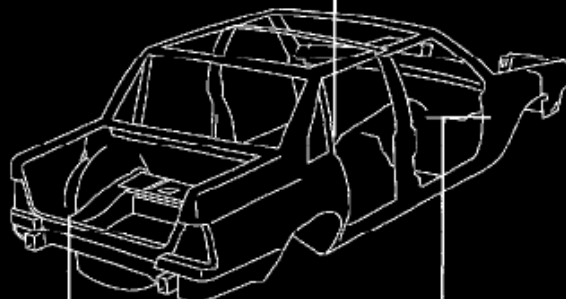


Power seats  
Parking brake switch  
Heated seats  
Seat belt lock, driver's seat

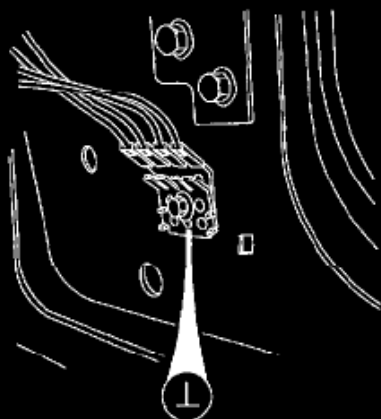
31/13



Fuel primer pump (LH 2.4) (MFI)  
Fuel pump (Regina) (MFI)  
Tail lights  
Number plate lighting  
Trunk lighting  
Extra brake light  
Power antenna  
Interior lighting  
Reading lamps  
Towing hook  
C/D-autochanger

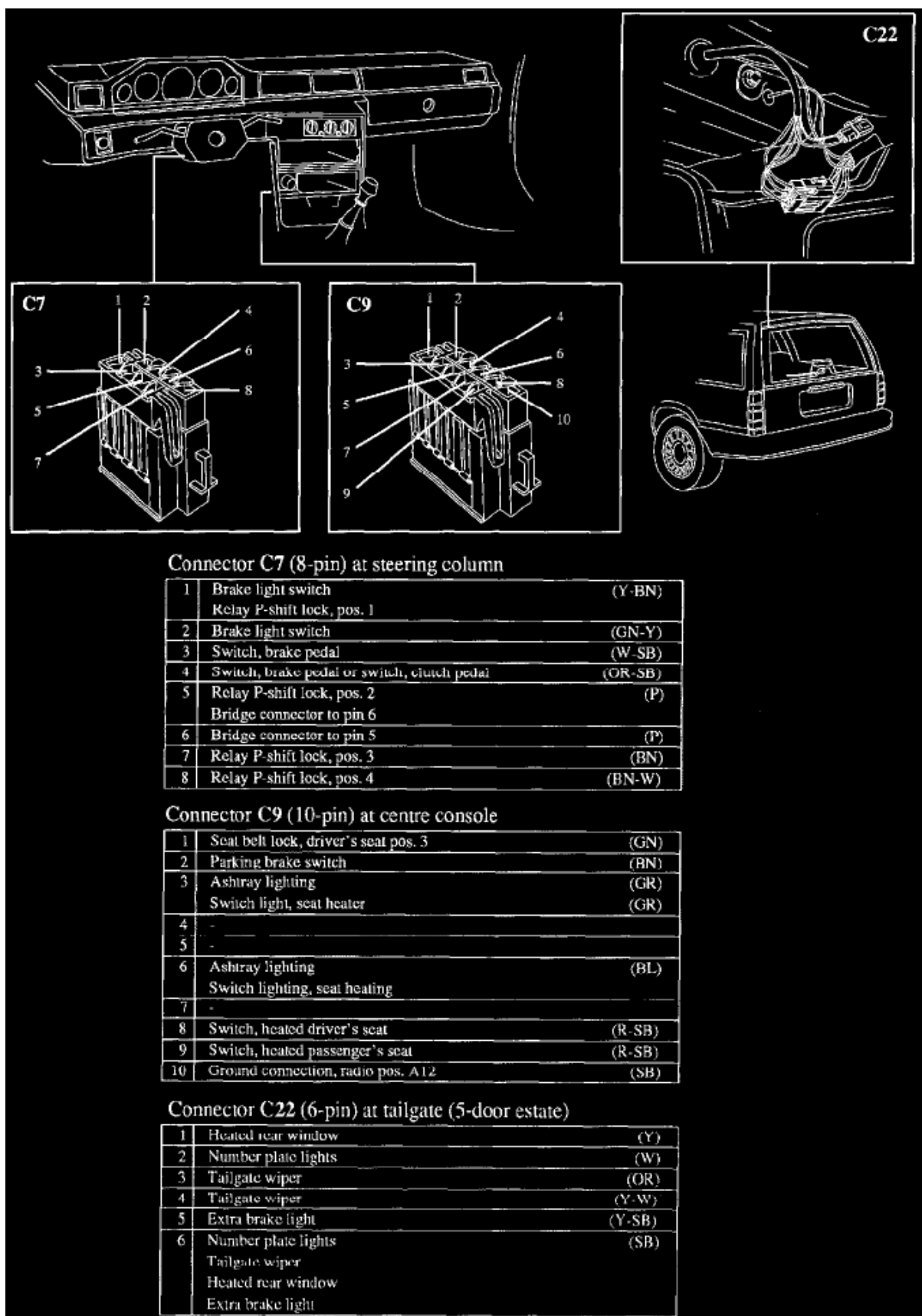


31/10



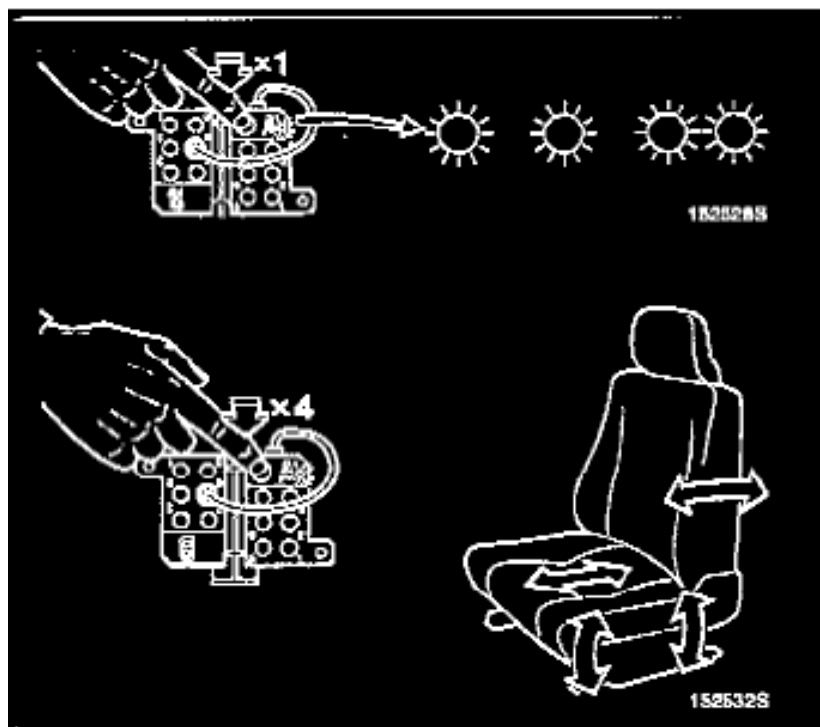
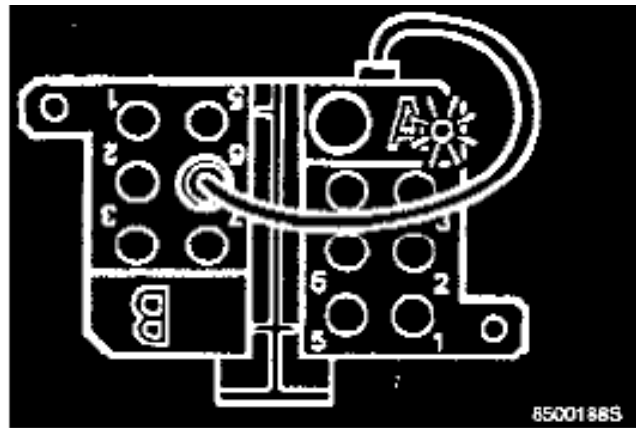
Cabin fan  
Ground connection rail in electrical distribution unit  
Bulb malfunction indicator  
Flasher unit  
Intermittent relay, wipers  
Headlight relay  
Power sunroof  
Overdrive relay  
Central lock motors  
Power door mirrors  
Power windows  
Bypass relay 15I (window lifts/seat heaters)  
(Accessories)  
Central lock relay  
Relay, seat belt reminder  
Cigar lighter  
Radio  
Glove compartment lighting  
Separate amplifier, radio  
Fuel pump (LH 2.4) (MFI)  
Fog light switch  
Combined instrument  
Fuel gauge  
Electronic climate unit ECC  
Control module DIM-DIP  
Right turn signal side repeater  
Bypass relay, high beam  
Control lighting  
Vanity mirror light  
Relay, exhaust gas temp. sensor (Japan)  
Relay, P-shift lock  
Beam width control  
Switch, heated rear window/door mirrors  
Switch, power door mirrors  
Ambient air temperature gauge  
Anti-theft alarm





Connectors





Applies to: 960, 1992-1993 4-door models to chassis No. 018366 incl. 5-door models to chassis No. 012112 incl.

Note:

Power seats in the above models can be operated only with the ignition on.

B1

- Switch off ignition

B2

- Manual fault tracing/calibration: Connect test lead from DLC A to socket No. 6 on DLC B.
- Fault tracing/calibration using VST with OBD System Memory Cassette: Connect instrument to DLC B.

B3

Ignition must be off for at least 5 seconds before performing this step.

- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

B4

- Diagnostic system must now be activated within one minute, i.e., test button must be pressed once to select DTM 1 (self-diagnostics) or four times to select DTM 4 (calibration).

Control module will exit diagnostic function after approx. 1 minute if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off for at least 5 seconds. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of the SM; use of DTM 4 (calibration) is described on SM page 7.

## **Diagram Information and Instructions**

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 138.

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

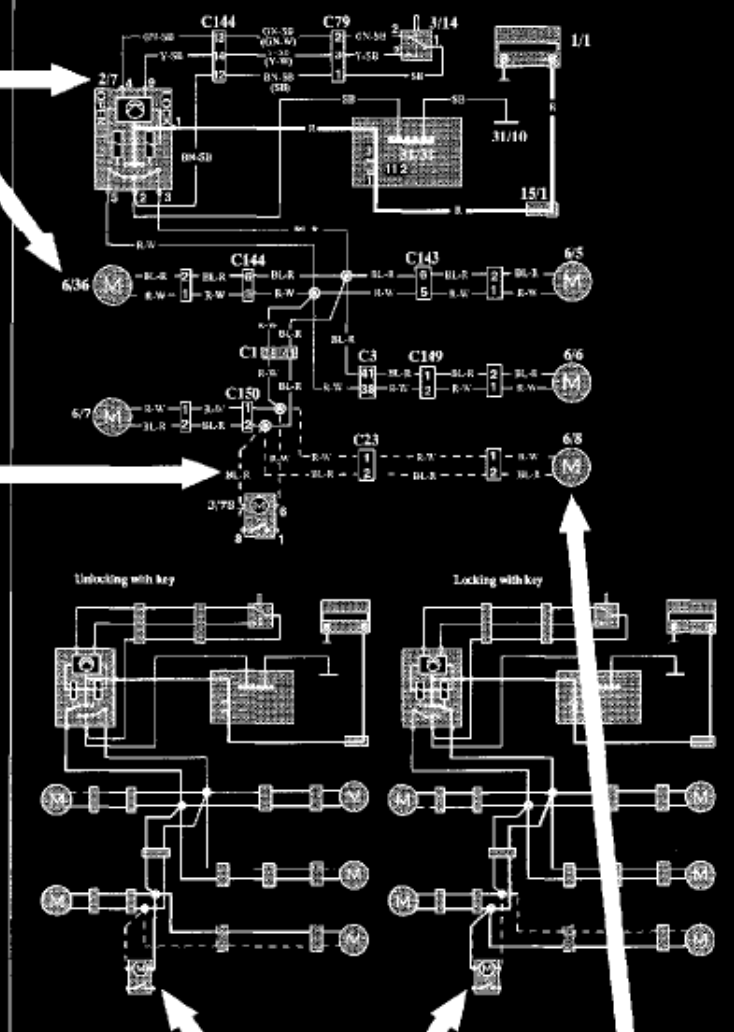
Each component has a component designation.  
At the end of the manual there is a component  
list where you can see what each component  
is called.

Wire colours are indicated with letters of the alphabet:

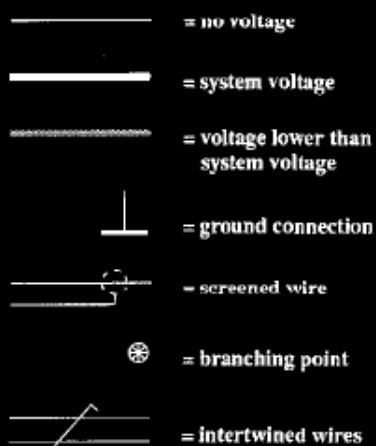
SB = Black	BN = Brown	GN = Green
GR = Grey	Y = Yellow	OR = Orange
W = White	P = Pink	VO = Purple
R = Red	BL = Blue	

BL-R is thus = Blue-red.

### Central locking



### Code to colours in the wiring diagram

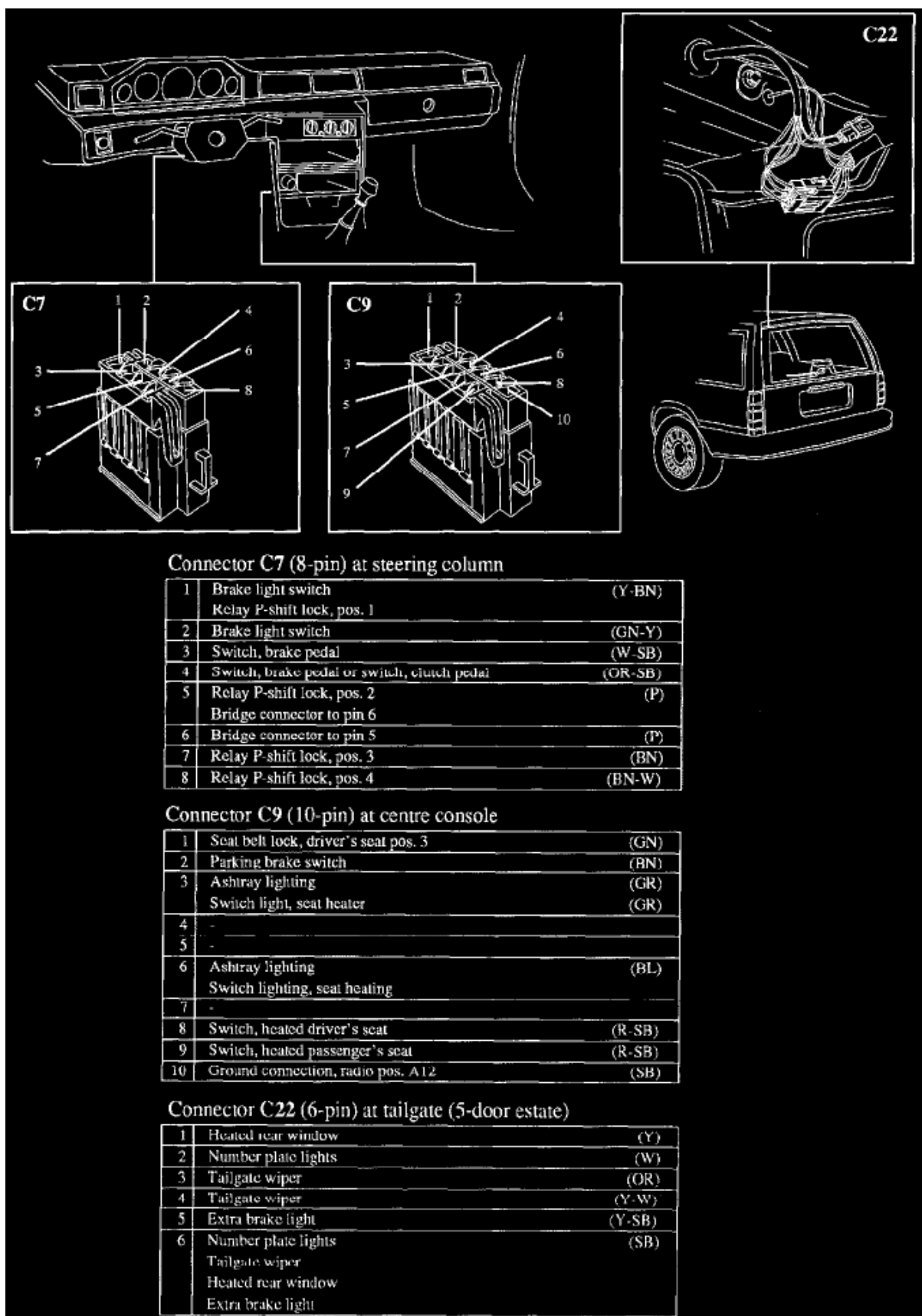


Here you see the voltage under operational conditions.



## Diagram Information





Connectors



Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin

C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102  
Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at  
thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin







20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor

Components 31/1 - 31/64

No. Component Name

31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

Wire Color Code Identification

SB = Black

GR = Grey

W = White

R = Red

BN = Brown

Y = Yellow

P = Pink

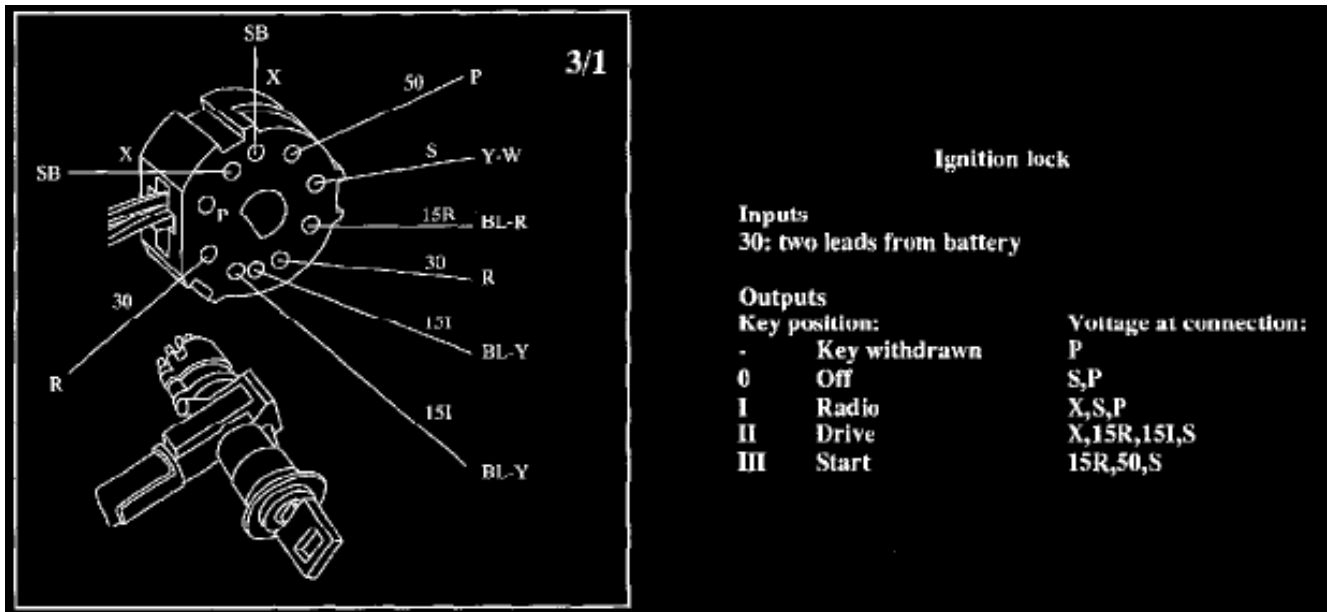
BL = Blue

GN = Green

OR = Orange

VO = Violet

Y-GR = Yellow-Grey



Connector, Ignition Lock

Fuse Rating / Circuit Assignment - Electrical Distribution Unit



Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness

# D24/D24TTC

1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	Washer motor, tailgate	(BL-Y)
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	Front foglights	(W-SB)
14	-	
15	Headlight wiper motor	(Y)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor	(BL-R)
	Washer motor	
18	-	
19	-	
20	-	
21	-	
22	-	
23	-	
24	Washer fluid level sensor	(BL-W)
25	-	

Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - door sill harness

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeater	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post



3/10 Backup (reversing) light switch



3/12 Switch, windshield wash/wipe

3/13 Switch, tailgate wash/wipe

3/14 Switch, lock button

3/15 Power window switch, driver's door for driver's door

3/16 Power window switch, driver's door for driver's side rear door

3/17 Power window switch, driver's door for passenger's side front

3/18 Power window switch, driver's door for passenger's side rear

3/19 Power window switch, driver's side rear

3/20 Power window switch, passenger's side front

3/21 Power window switch, passenger's side rear

3/22 Switch for rear power window lifts

3/23 Switch for power door mirror, driver's side

3/24 Switch for power door mirror, passenger's side

3/25 Switch for power sunroof

3/26 Operating module, driver's seat

3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

Components 4/1 - 6/39

No. Component Name

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 Control module LH-jetronic 2.4 (MFI) system

4/25 Control module Regina (MFI) system

4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

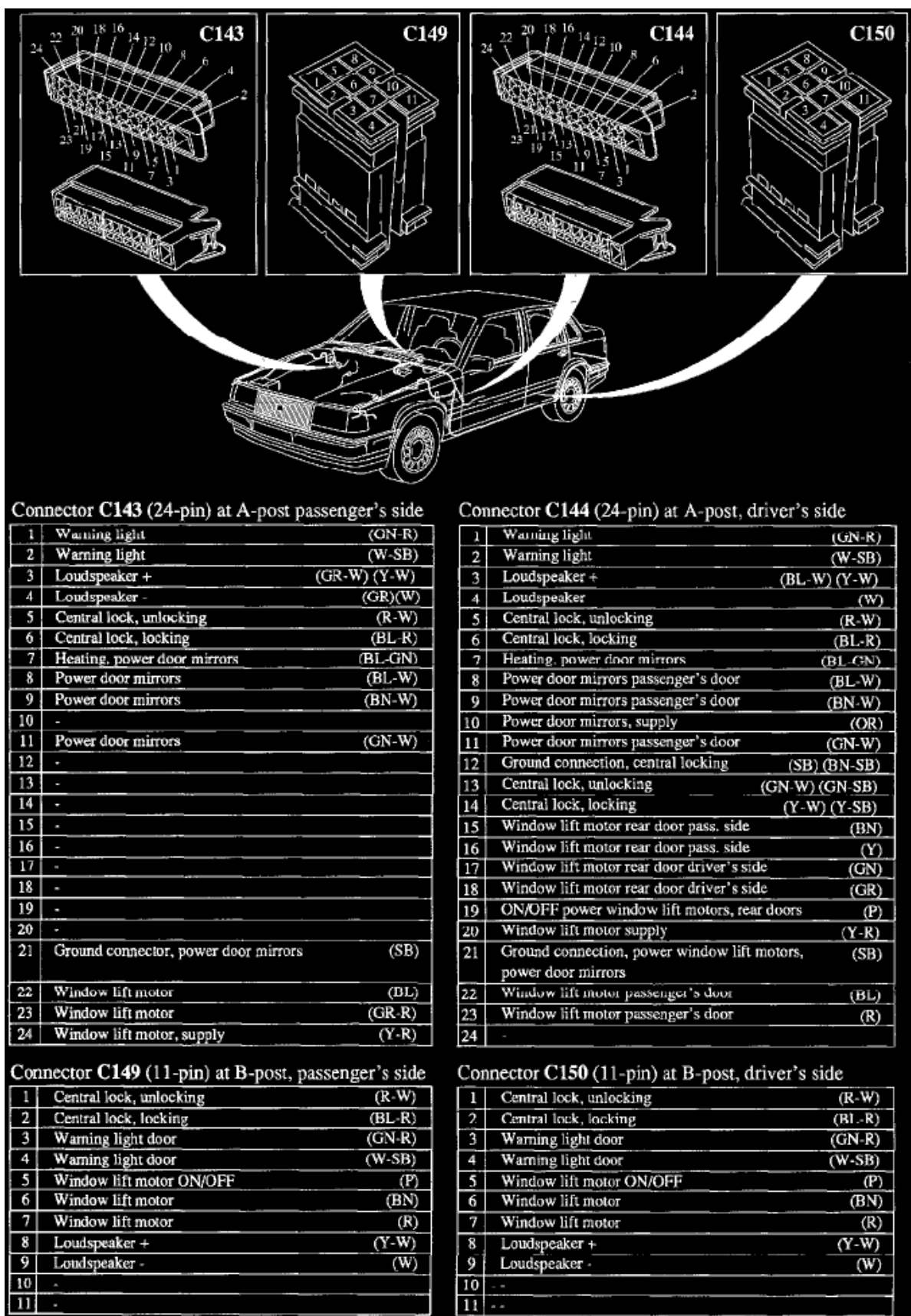
5/1 Combined instrument

5/3 Ambient temperature sensor

6/1 Windshield wiper motor

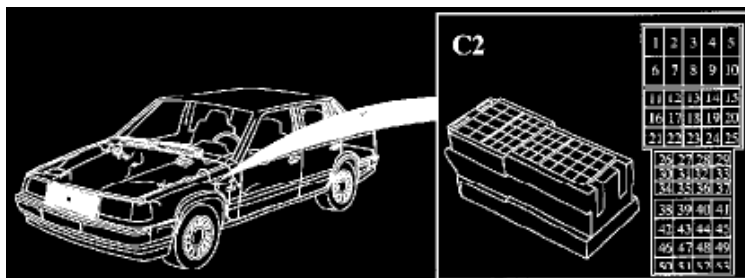
6/2 Washer motor, front





Connectors For Doors





**Black connector C2 (53-pin)**  
Instrument panel harness - left wheel housing harness

B 230 F REX-I		
1	Starter motor 50	(BL-GN)
2	High beam left	(BL-W)
3	Low beam left	(GN)
4	Horn +	(Y)
Windshield wiper motor pos. 1		
Headlight wiper motor (not USA/CDN)		
5	Windshield wiper motor pos. 2	(GR)
6	Windshield wiper motor pos. 3	(GN-W)
7	Windshield wiper motor pos. 4	(OR)
8	Front foglights	(W-SB)
9	Control module REX-I (DI) pos. 5	(BN)
10	-	
11	On-board diagnostic (OBD) socket B pos. 5	(GR-OR)
12	On-board diagnostic (OBD) socket A pos. 5	(BL-P)
13	Turn signal, left	(GN)
14	Parking light, left	(W)
15	-	
16	Oil pressure sensor	(SB)
17	Horn -	(BL-SB)
18	Headlight wiper motor (not USA/CDN)	(BL-R)
Windshield washer motor		
19	Brake fluid level sensor	(VO)
20	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)
22	Generator D+	(R)
23	On-board diagnostic (OBD) socket B pos. 6	(BL-W)
24	Service socket	(P)
25	On-board diagnostic (OBD) socket A pos. 2	(GN-W)
26	Control module REX-I (DI) pos. 3	(BN-W)
27	Power amplifier/ignition coil REX-I (DI) pos. C	(R-W)
28	On-board diagnostic (OBD) socket A pos. 4	(BL)
Control module REX-I (DI) pos. 6		
Power amplifier/ignition coil REX-I (DI) pos. A		
29	Control module REX-I (DI) pos. 17	(Y-GR)
30	-	
31	-	
32	Washer fluid level sensor	(R-SB)
33	Washer motor, tailgate	(BL-Y)
34	Door switch	(BN-SB)
35	Door switch	(W-SB)
36	-	
37	-	
38	Ambient temperature sensor	(GN-Y)
39	Ambient temperature sensor	(GN-R)
40	Anti-theft alarm, connector D4 pos. 1	(GR-W)
41	Anti-theft alarm, connector D4 pos. 2	(BN-P)
42	Control module cruise control pos. 10	(BN-GR)
43	Control module cruise control pos. 2	(P-SB)
44	Control module cruise control pos. 7	(BN-OR)
45	Control module cruise control pos. 11	(BL-OR)
46	Control module cruise control pos. 6	(BL-GR)
47	Control module cruise control pos. 4	(OR-W)
48	Control module cruise control pos. 3	(OR-SB)
49	Control module cruise control pos. 13	(GN-OR)
50	-	
51	-	
52	-	
53	-	

Connector At Left A-post



**Black connector C2 (53-pin)**  
Instrument panel - left wheel housing

B200F/FT, B230F/FA/FD/G/FT/GT-EZK (DI)			D24/D24TIC		
1	Starter motor 50	(BL-GN)	Starter motor 50		(BL-GN)
2	High beam, left	(BL-W)	Relay, glowplug mechanism pos. 3		
3	Low beam, left	(GN)	High beam, left		(BL-W)
3	Beam width control (Germany)	(GN-BN)	Low beam, left		(GN)
4	Horn +	(Y)	Beam width control (Germany)		(GN-BN)
4	Windshield wiper motor pos. 1		Horn +		(Y)
4	Headlight wiper motor (not USA/CDN)		Windshield wiper motor pos. 1		
5	Windshield wiper motor pos. 2	(GR)	Headlight wiper motor		
6	Windshield wiper motor pos. 3	(GN-W)	Windshield wiper motor pos. 2		(GR)
7	Windshield wiper motor pos. 4	(OR)	Windshield wiper motor pos. 3		(GN-W)
8	Front foglights	(W-SB)	Windshield wiper motor pos. 4		(OR)
9	Control module EZK (DI) pos. 5 (not FT/GT)	(BL)	Front foglights		(W-SB)
10	Control module EZK (DI) pos. 5 (not FT/GT)	(BN)	Relay, glowplug mechanism pos. 4		(BL)
10	B200FT, B230FT/GT:		Pos. 3, connector C51 at left suspension tower		
10	Battery +	(BN)			
11	Relay, radio interference suppression pos. 4				
11	On-board diagnostic (OBD) socket B pos. 5	(GR-OR)	On-board diagnostic (OBD) socket B pos. 5		(GR-OR)
12	On-board diagnostic (OBD) socket A pos. 3	(BL-P)	On-board diagnostic (OBD) socket A pos. 3		(BL-P)
13	Turn signal, left	(GN)	Turn signal, left		(GN)
14	Parking lights, left	(W)	Parking lights, left		(W)
15	Beam width control (Germany)	(GR)	Beam width control (Germany)		(GR)
16	Oil pressure sensor	(SB)	Oil pressure sensor		(SB)
17	Horn -	(BL-SB)	Horn -		(BL-SB)
18	Headlight wiper motor (not USA/CDN)	(BL-R)	Headlight wiper motor		(BL-R)
18	Windshield washer motor (not FT/GT)				
19	Brake fluid level sensor	(VO)	Brake fluid level sensor		(VO)
20	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)	Engine coolant temperature (ECT) sensor pos. 1		(Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)	Engine coolant temperature (ECT) sensor pos. 2		(Y-SB)
22	Generator D+	(R)	Generator D+		(R)
23	On-board diagnostic (OBD) socket B pos. 6	(BL-W)	On-board diagnostic (OBD) socket B pos. 6		(BL-W)
24	Service socket	(P)	Service socket		(P)
25	On-board diagnostic (OBD) socket A pos. 2	(GN-GR)(GN-W)			
26	Ignition Control Module (ICM) pos. 3	(BN-W)			
27	Power amplifier EZK (DI) pos. 1	(R-W)	Generator W		(R-W)
27	Ignition coil 1				
28	Ignition Control Module (ICM) pos. 6	(BL)	On-board diagnostic (OBD) socket A pos. 4		(BL)
28	Power amplifier EZK (DI) pos. 4				
28	On-board diagnostic (OBD) socket A pos. 4				
28	Converter, EGR (B230FD and B230FT California)				
29	Ignition Control Module (ICM) pos. 17	(Y-GR)			
30	-		Pressure sensor, turbodiesel (D24TIC)		(Y-R)
31	-				
32	B200FT, B230FT/GT:				
32	Ignition Control Module (ICM) pos. 5	(BN)(BN-W)			
32	Others: Washer fluid level sensor	(R-SB)(BL-W)			
33	B200FT, B230FT/GT:				
33	Relay, radio interference suppression pos. 2	(BL-Y)			
33	Others: Wiper motor, tailgate				
34	Door switch	(BN-SB)	Door switch		(BN-SB)
35	Door switch	(W-SB)	Door switch		(W-SB)
36	-				
37	Ignition Control Module (ICM) pos. 4	(GR-R)	Relay, glowplug mechanism pos. 1		(GR)
38	Ambient temperature sensor	(GN-Y)	Ambient temperature sensor		(GN-Y)
39	Ambient temperature sensor	(GN-R)	Ambient temperature sensor		(GN-R)
40	Anti-theft alarm, connector D4 pos. 1	(GR-W)	Anti-theft alarm, connector D4 pos. 1		(GR-W)
41	Anti-theft alarm, connector D4 pos. 2	(BN-P)	Anti-theft alarm, connector D4 pos. 2		(BN-P)
42	Control module cruise control pos. 10	(BN-GR)			
43	Control module cruise control pos. 2	(P-SB)			
44	Control module cruise control pos. 7	(BN-OR)			
45	Control module cruise control pos. 11	(BL-OR)			
46	Control module cruise control pos. 6	(BL-GR)			
47	Control module cruise control pos. 4	(OR-W)			
48	Control module cruise control pos. 3	(OR-SB)			
49	Control module cruise control pos. 13	(GN-OR)			
50	B230FD: Solenoid valve, pulsed secondary air injection (PAIR)	(BL-W)			
51	-				
52	-				
53	-				

Connector At Left A-post



## Locations



Refer to "Accessories and Optional Equipment : Antitheft and Alarm Systems : Locations : Components".





### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)	-	
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment



7/52 Temperature sensor, intake air

7/53 Low-pressure sensor, A/C

7/69 Ambient temperature sensor

7/75 Bulb malfunction indicator

8/1 Operating solenoid, overdrive

8/2 Solenoids, ECC

8/3 Solenoid coupling, A/C

8/5 Idle air control (IAC) valve

8/6-9 Injection valves

8/13 Fuel valve, diesel

8/15 Hydraulic unit, ABS

8/17 Converter, EGR

8/24 3-way valve, EGR

8/30 Steering wheel module, SRS (airbag)

8/33 Igniter for left seat belt tensioner

8/34 Igniter for right seat belt tensioner

8/36 Solenoid P-shift lock

8/42 Solenoid, pulsed secondary air injection (PAIR)

9/1 Cigar lighter

9/2 Heated rear window

9/3 Heater element, driver's seat backrest

9/4 Heater element, passenger's seat backrest

9/5 Heater element, driver's seat cushion

9/6 Heater element, passenger's seat cushion

Components 10/5 - 10/115

No. Component Name

10/5 Left front foglight

10/6 Right front foglight

10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal



10/15 Left turn signal repeater (not USA/CDN)  
10/16 Right turn signal repeater (not USA/CDN)  
10/19 Extra brake light  
10/20 Left number plate light  
10/21 Right number plate light  
10/22 Roof light  
10/24 Trunk light  
10/25 Roof light, load area (5-door)  
10/29 Glove compartment light  
10/30 Door-open warning light, driver's door  
10/31 Door-open warning light, front passenger's side  
10/32 Door-open warning light, rear driver's side  
10/33 Door-open warning light, rear passenger's side  
10/36 Control panel lighting  
10/38 Ashtray lighting, rear  
10/39 Switch lighting, seat heater  
10/40 Gear selector lighting  
10/43 Right brake light  
10/44 Right parking light, rear  
10/45 Right parking/tail light  
10/46 Right rear foglight  
10/47 Bulb, right rear turn signal  
10/48 Right backup (reversing) light  
10/50 Left brake light  
10/51 Left parking light, rear  
10/52 Left parking/tail light  
10/53 Left rear foglight  
10/54 Bulb, left rear turn signal  
10/55 Left backup (reversing) light  
10/64 Right high beam  
10/65 Right extra high beam

## **Diagram Information and Instructions**

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 138.

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

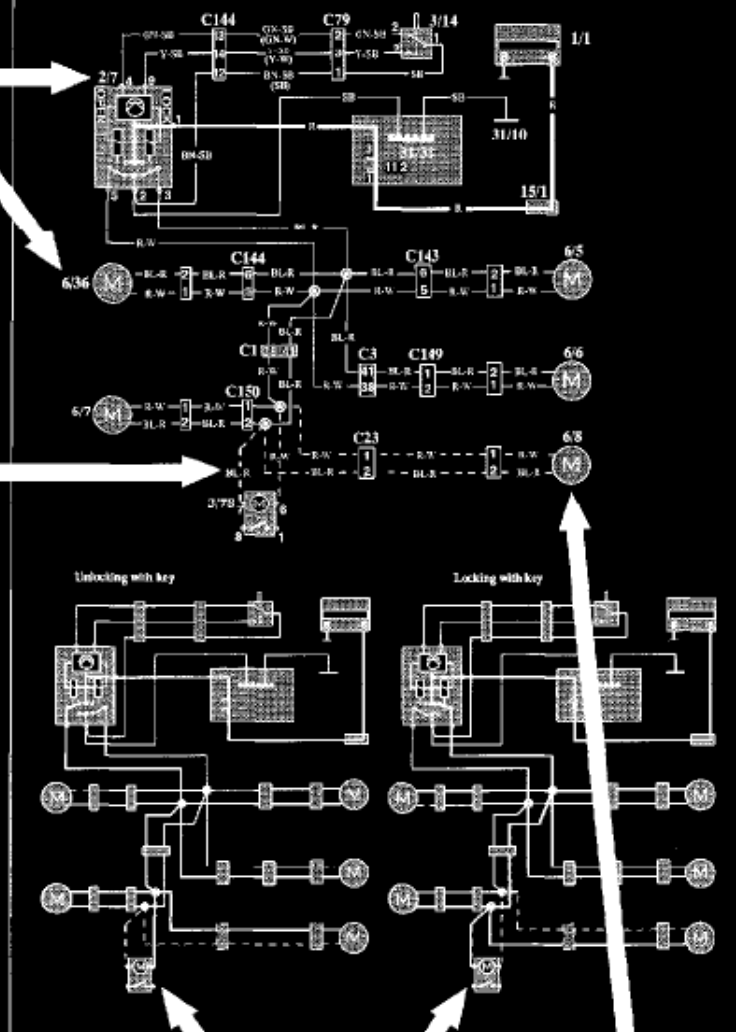
Each component has a component designation.  
At the end of the manual there is a component  
list where you can see what each component  
is called.

Wire colours are indicated with letters of the alphabet:

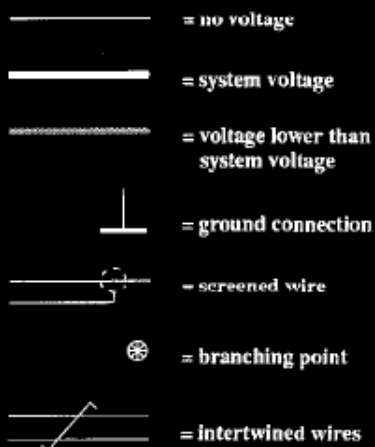
SB = Black	BN = Brown	GN = Green
GR = Grey	Y = Yellow	OR = Orange
W = White	P = Pink	VO = Purple
R = Red	BL = Blue	

BL-R is thus = Blue-red.

### Central locking



### Code to colours in the wiring diagram



Here you see the voltage under operational conditions.

## Diagram Information





10/68 Left high beam  
10/69 Left extra high beam  
10/70 Left low beam  
10/72 Ashtray lighting, front  
10/74 Indicator light, exhaust gas temperature  
10/75 Indicator light, charge pressure, turbodiesel  
10/76 Indicator light, diesel preheating  
10/77 Indicator light, SRS (airbag)  
10/78 Indicator light, seat belt  
10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
10/80 Indicator light, overdrive (man.)  
10/82 indicator light, ABS  
10/83 Indicator light, parking brake  
10/84 Indicator light, brake warning  
10/85 Indicator light, high beam  
10/86 Indicator light, oil pressure  
10/87 Indicator light, charge  
10/88 Indicator light, bulb failure  
10/89 Indicator light, rear foglights  
10/90 Indicator light, washer fluid level  
10/91 Service indicator  
10/92 Indicator light, trailer  
10/93 Indicator light, malfunction indicator lamp (MIL)  
10/94 Indicator light, right turn signal  
10/95 Indicator light, left turn signal  
10/96 Instrument lighting  
10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side 11/1-26 Fuses 11/41  
Fuse, combined instrument  
15/1 Positive terminal  
15/2 30-rail in el. distribution unit  
15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil

20/2 Distributor

20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor







2/36 Headlight flasher  
2/37 Headlight relay  
2/38 Timer relay, exhaust gas recirculation (EGR)  
2/45 Relay, P-shift lock  
2/50 Bypass relay, high beam  
3/1 Ignition lock  
3/2 Light switch  
3/4 Cruise control operation  
3/5 Switch, turn signal/high-low beam  
3/6 Switch, hazard warning flashers  
3/7 Foglight switch  
3/8-1 Switch, heated rear window  
3/8-2 Switch with timer relay, heated rear window/door mirrors  
3/9 Brake light switch  
3/10 Backup (reversing) light switch  
3/12 Switch, windshield wash/wipe  
3/13 Switch, tailgate wash/wipe  
3/14 Switch, lock button  
3/15 Power window switch, driver's door for driver's door  
3/16 Power window switch, driver's door for driver's side rear door  
3/17 Power window switch, driver's door for passenger's side front  
3/18 Power window switch, driver's door for passenger's side rear  
3/19 Power window switch, driver's side rear  
3/20 Power window switch, passenger's side front  
3/21 Power window switch, passenger's side rear  
3/22 Switch for rear power window lifts  
3/23 Switch for power door mirror, driver's side  
3/24 Switch for power door mirror, passenger's side  
3/25 Switch for power sunroof  
3/26 Operating module, driver's seat  
3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 ontrol module LH-jetronic 2.4 (MFI) system



1 Fuel pump (LH-2.4 MFI)

Fuel system

Distributor Ignition (DI) system

Oxygen sensor (HO2S) heating (B200/230FT)

2 Hazard warning flashers

Headlight flasher (via fuse 17 and 18)

Central locking

Anti-theft alarm

3 Power seats (Towing hook)

4 Brake lights Solenoid, P-shift lock

5 Clock

Vanity mirror light

Glove compartment lighting

Trunk light

Interior lighting

Radio

Power antenna

Door-open warning lights

CD.autochanger

Anti-theft alarm

6 Electronic Climate Control (ECC) Cabin fan, Electronic Climate Control (ECC)

7 Front foglights

Rear foglights (not USA, Canada)

8 Power windows

9 Turn signals

Warning lights for seat belts

Seat belt reminder

Ignition key warning

Bypass relay 151 (power windows/seat heating)

Solenoid, P-shift lock

(Towing hook)

10 Heated rear window



Power sunroof

Heated door mirrors

11 Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI) Oxygen sensor (HO2S) heating

12 Backup (reversing) lights Overdrive relay

Bulb malfunction indicator with brake monitor

Exhaust temperature sensor (Japan)

Cruise control

Anti-theft alarm

Fuse no. Functions

13 Fuel valve, diesel

Pre-heating mechanism, diesel

EGR diesel

Solenoid, pulsed secondary air injection (PAIR) (B23OFD)

14 Power door mirrors

Cigar lighter

Radio

Tailgate washer

Tailgate wiper

Ambient temperature sensor

15 Relays, power seat5

Horn

Windshield wash/wipe

Headlight wash/wipe

16 Cabin fan, standard heater

Cabin fan, Manual Climate Control (MCC)

Electronic Climate Control (ECC)

17 Left high beam

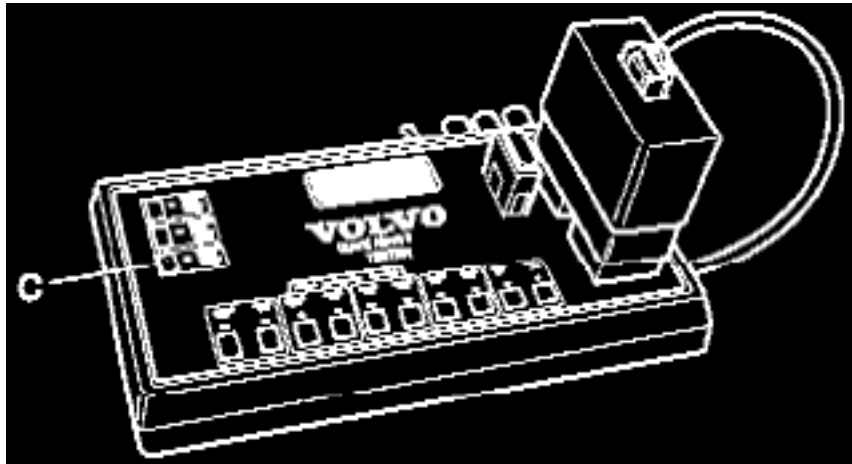
Indicator light, high beam

18 Right high beam

Front fog lights (Japan, Taiwan and Saudi Arabia)

19 Left low beam

Beam width control



### Alarm Module: Testing and Inspection

#### Button "Run self test"

- Press button C Run self test".

The lower row on the display shows the caption "TESTING..."

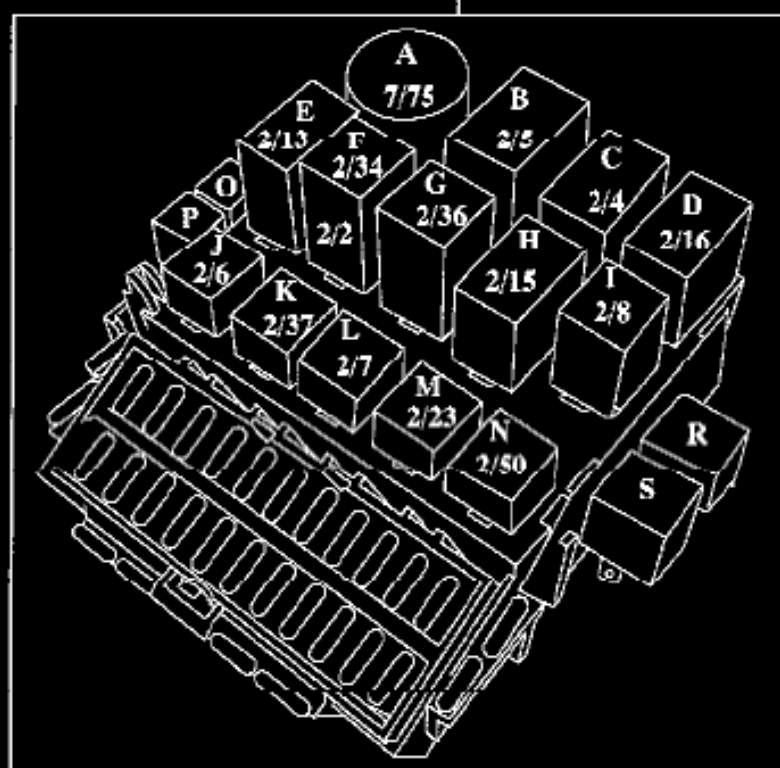
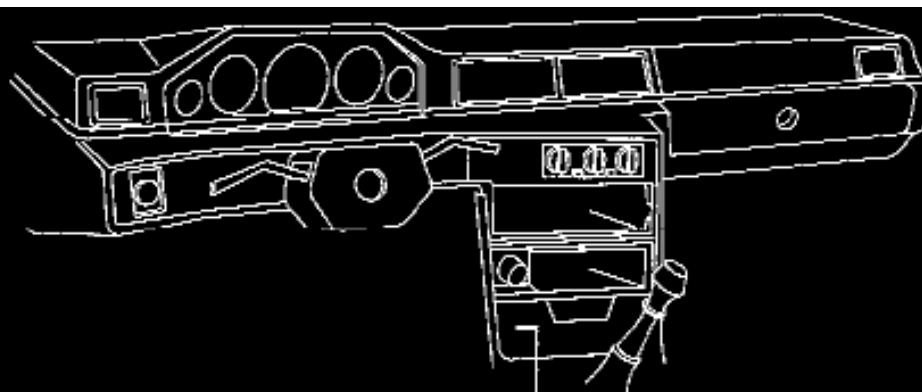
If the module is OK: If the control module is free of faults, the caption "TEST OK!" appears on the lower row of the display.

If the control module is faulty:

If the control module is faulty the caption "ERRCODE XXX" is shown ("XXX" is a 3-digit DTC).

The DTC (ERRCODE) should always be quoted when making claims for a faulty module.





Relays in electrical distribution unit

- |   |  |   |   |
|---|--|---|---|
| A | Bulb failure warning sensor (7/75)                           | J | Overload relay 15I (2/6)<br>(power windows/seat heater) |
| B | Seat belt reminder/key warning (2/5)<br>(USA, Canada, Korea) | K | Headlight (2/37)  |
| C | Windshield wiper intermittent relay (2/4)                    | L | Central lock (2/7)                                      |
| D | Tailgate wiper intermittent relay (2/16)                     | M | Fuel pump relay (2/23)                                  |
| E | Fuel injection (2/13)  | N | Overload relay high beam (2/50)<br>(not USA, Canada)    |
| F | Foglights, front (2/34 or 2/2 USA, Canada)                   | O | -   |
| G | Headlight flasher (2/36)                                     | P | -   |
| H | Exhaust temp. sensor (2/15) (Japan)                          | R | -   |
| I | Overdrive (2/8)  | S | -   |

Relay, front foglights (USA/CDN)

20 Right low beam

Beam width control

21 Left parking lights, front and rear

Number plate lights

Instrument and control panel lights

Ambient temperature sensor

22 Relay, front foglights (Europe)

Right parking lights, front and rear

Ashtray light, rear

Automatic transmission selector illumination

Lighting, switches and storage compartment in centre console

23 Heated front seats

24 ABS

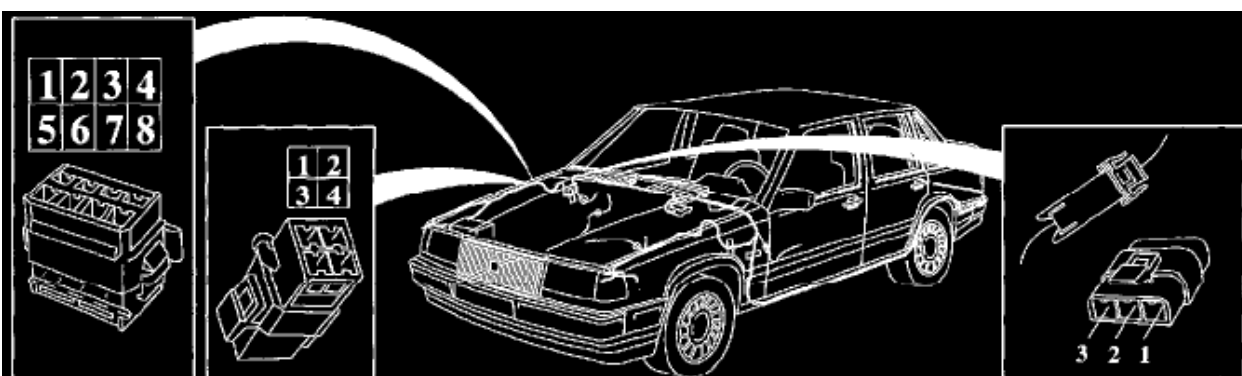
25 Rear foglights (USA, Canada, Japan)

Disconnectable low beam (Nordic market, Netherlands, Belgium)

26 Amplifier, radio

Relays In Electrical Distribution Unit





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

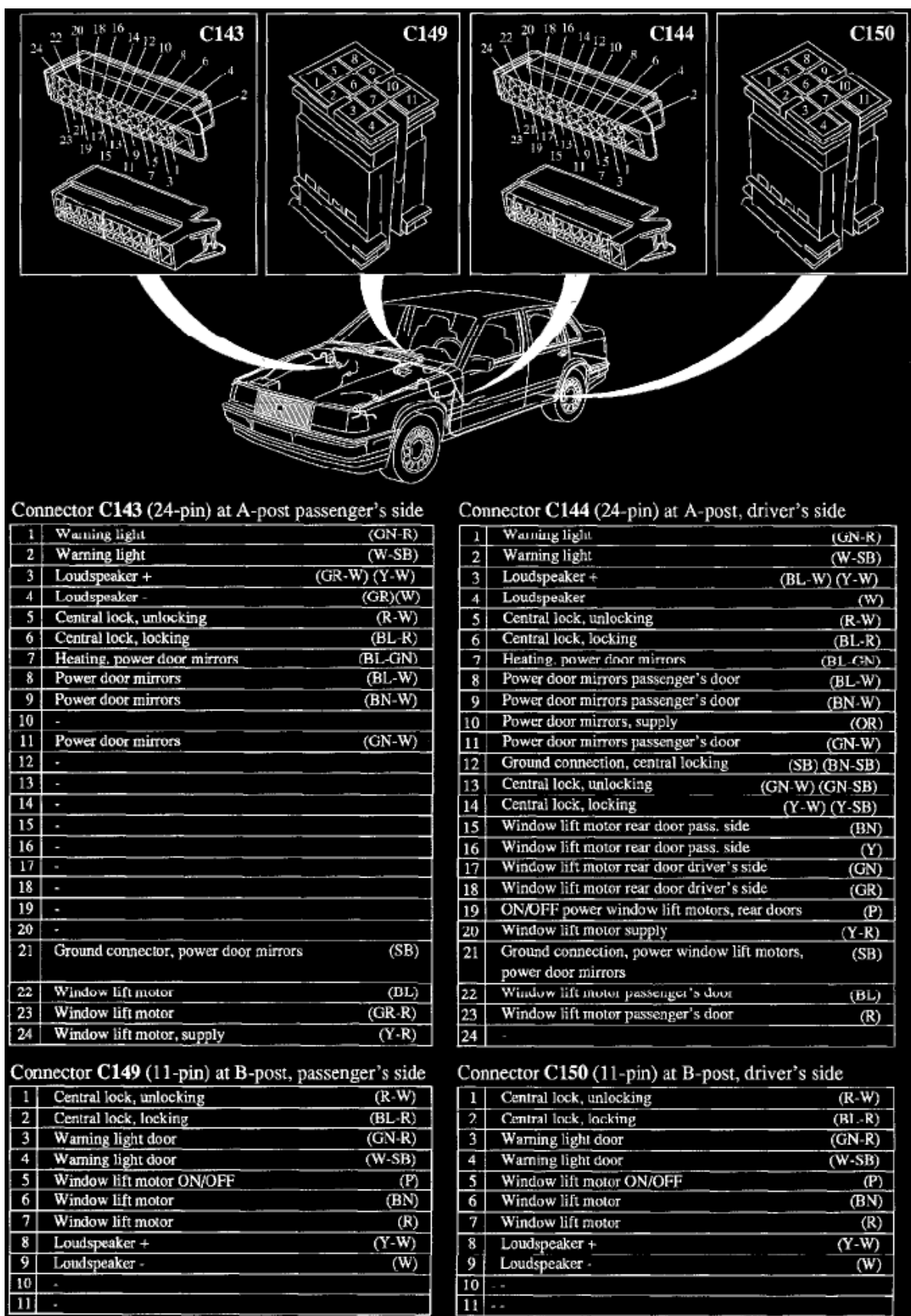
1	High-pressure sensor A/C pos. 2	(GN-R)
---	---------------------------------	--------

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)

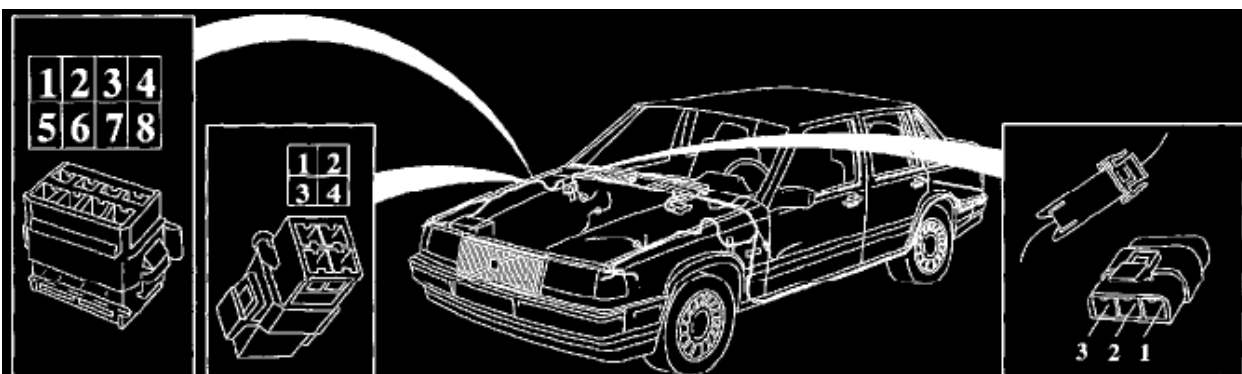






Connectors For Doors





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

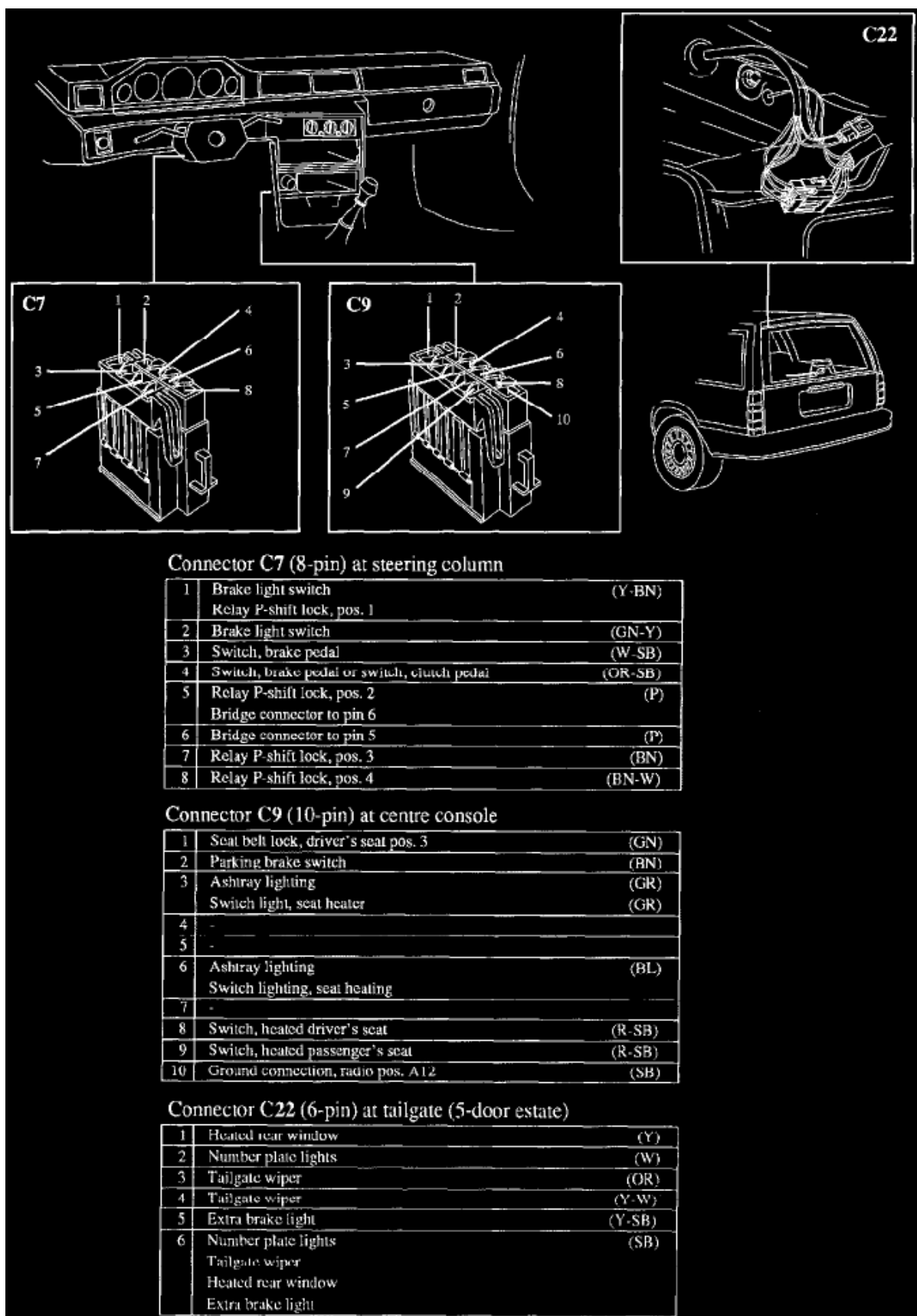
#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





Connectors







4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front

6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan



C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, ate. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components 1/1 - 3/70

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection

2/34 Relay, front foglights

2/36 Headlight flasher

2/37 Headlight relay

2/38 Timer relay, exhaust gas recirculation (EGR)

2/45 Relay, P-shift lock

2/50 Bypass relay, high beam

3/1 Ignition lock

3/2 Light switch

3/4 Cruise control operation

3/5 Switch, turn signal/high-low beam

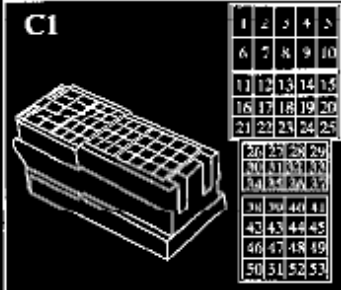
3/6 Switch, hazard warning flashers

3/7 Foglight switch

3/8-1 Switch, heated rear window

3/8-2 Switch with timer relay, heated rear window/door mirrors

3/9 Brake light switch



White connector C1 (53-pin)  
Instrument panel harness - sill harness

all models	
1	Tail lights (BN-W)
2	Tail lights (R)
3	Brake light, left (Y-R)
4	Brake light, right (Y)
5	Backup (reversing) lights (SB)
6	Number plate lights (W)
7	Turn signal, left rear (GN)
8	Turn signal, right rear (BL-GN)
9	Fuel level sensor/primer pump (pump) (GR-W)
10	Heated rear window (Y)
11	Sensor, speedometer - (BN-W)
12	Sensor, speedometer + (GN-W)
13	Door switch, pre-routed interior lighting (W-SB)
14	Towing hook pos. 10 (BL-GN)
15	Rear foglights (GR)
16	Fuel level sensor/primer pump (pump) (BN)
17	Fuel level sensor/primer pump (pump) (P)
18	Extra brake light (Y-SB)
19	Tailgate wiper (OR)
20	Tailgate wiper (Y-W)
21	Power antenna pos. 3 (GN-GR)
22	-
23	-
24	Ground connector, left A-post (BN-GR)
25	Towing hook pos. 9 (W-SB)
26	Towing hook pos. 7 (W)
27	Towing hook pos. 5 (GR)
28	Towing hook pos. 6 (Y-BN)
29	Door-open warning light, left rear (GN-R)
	Interior lighting
	Trunk light
	Power antenna pos. 1
30	Interior lighting (BN-SB)
31	Connector, tailgate/trunk (anti-theft alarm) (BN-OR)
32	-
33	Loudspeaker rear parcel shelf right side + (GN-BN)
34	Loudspeaker rear parcel shelf right side - (GN)
35	Loudspeaker left rear door + (Y-W)
	Loudspeaker rear parcel shelf left side +
36	Loudspeaker left rear door - (W)
	Loudspeaker rear parcel shelf left side -
37	-
38	Central locking, rear door (R-W)
	Central locking, tailgate/trunk
39	-
40	-
41	Central locking, rear door (BL-R)
	Central locking, tailgate/trunk
42	-
43	-
44	-
45	-
46	-
47	-
48	-
49	-
50	Power window lift motor, rear door (GN)
51	Power window lift motor, rear door (GR)
52	-
53	Power window lift motor, rear door ON/OFF (P)



Connector At Left A-post

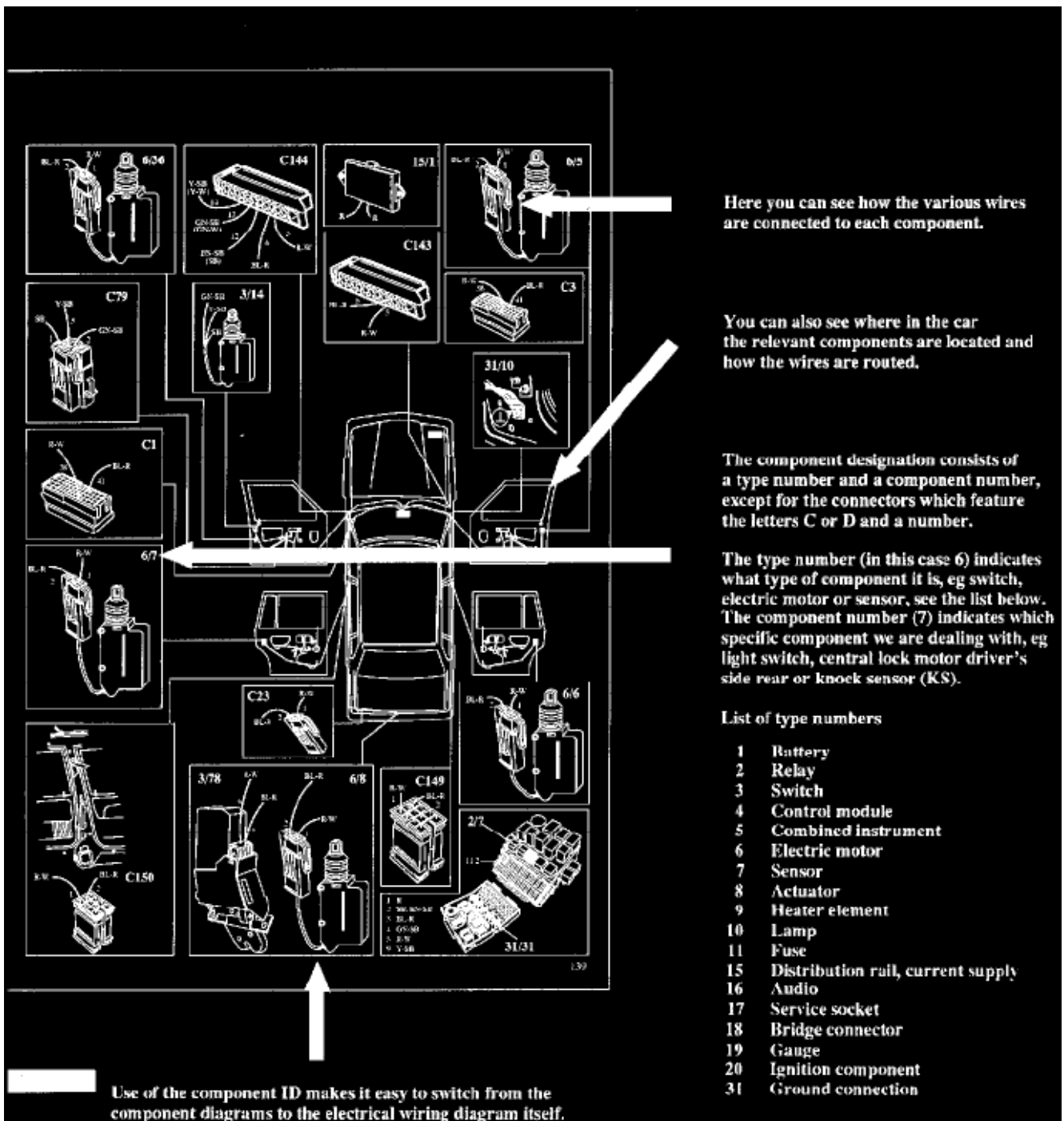


Diagram Information

Complete Component List

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection



31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin

Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

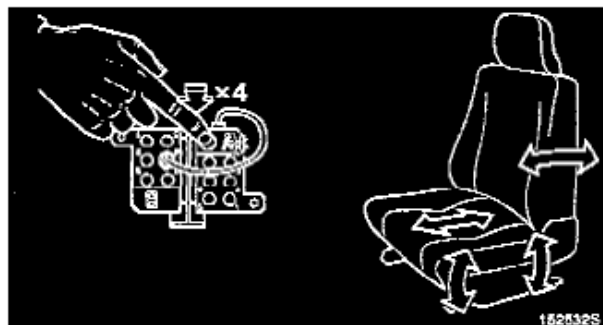
C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin





Oper. No.	Labor Description	Time Allowance
852003	Power seat, diagnostic check	0.2 hr

E3

- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

E4

- Diagnostic system must now be activated within 2 minutes, i.e., test button must be pressed once to select DTM 1 (self-diagnostics) or four times to select DTM 4 (calibration).

Control module will exit diagnostic function after approx. 2 minutes if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of the SM; use of DTM 4 (calibration) is described on SM page 7.

The illustrated operation number may only be added to a claim in conjunction with a warrantable repair within the respective area.



3/10 Backup (reversing) light switch

3/12 Switch, windshield wash/wipe

3/13 Switch, tailgate wash/wipe

3/14 Switch, lock button

3/15 Power window switch, driver's door for driver's door

3/16 Power window switch, driver's door for driver's side rear door

3/17 Power window switch, driver's door for passenger's side front

3/18 Power window switch, driver's door for passenger's side rear

3/19 Power window switch, driver's side rear

3/20 Power window switch, passenger's side front

3/21 Power window switch, passenger's side rear

3/22 Switch for rear power window lifts

3/23 Switch for power door mirror, driver's side

3/24 Switch for power door mirror, passenger's side

3/25 Switch for power sunroof

3/26 Operating module, driver's seat

3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

Components 4/1 - 6/39

No. Component Name

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 Control module LH-jetronic 2.4 (MFI) system

4/25 Control module Regina (MFI) system

4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

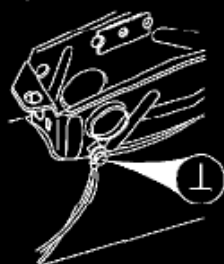
5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front

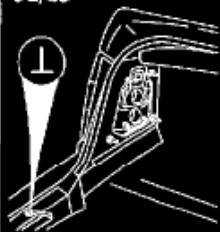


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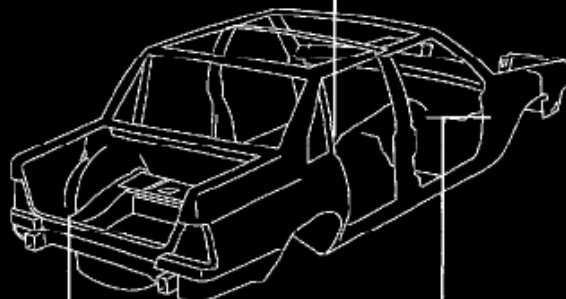


Power seats  
Parking brake switch  
Heated seats  
Seat belt lock, driver's seat

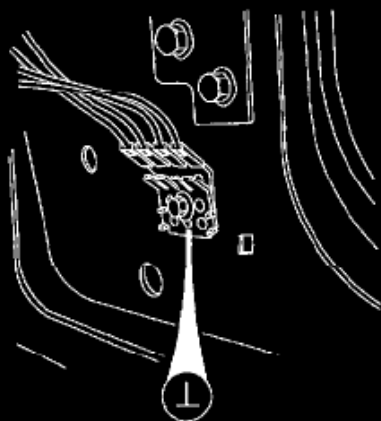
31/13



Fuel primer pump (LH 2.4) (MFI)  
Fuel pump (Regina) (MFI)  
Tail lights  
Number plate lighting  
Trunk lighting  
Extra brake light  
Power antenna  
Interior lighting  
Reading lamps  
Towing hook  
CD-autochanger



31/10

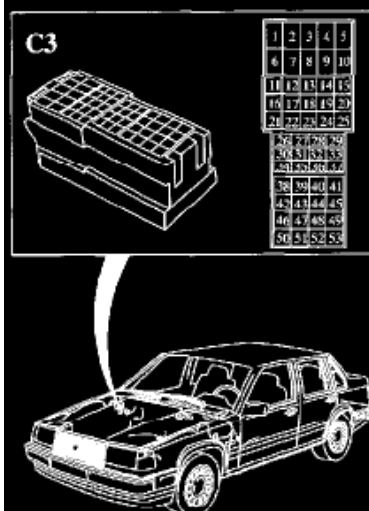


Cabin fan  
Ground connection rail in electrical distribution unit  
Bulb malfunction indicator  
Flasher unit  
Intermittent relay, wipers  
Headlight relay  
Power sunroof  
Overdrive relay  
Central lock motors  
Power door mirrors  
Power windows  
Bypass relay 15I (window lifts/seat heaters)  
(Accessories)  
Central lock relay  
Relay, seat belt reminder  
Cigar lighter  
Radio  
Glove compartment lighting  
Separate amplifier, radio  
Fuel pump (LH 2.4) (MFI)  
Fog light switch  
Combined instrument  
Fuel gauge  
Electronic climate unit ECC  
Control module DIM-DIP  
Right turn signal side repeater  
Bypass relay, high beam  
Control lighting  
Vanity mirror light  
Relay, exhaust gas temp. sensor (Japan)  
Relay, P-shift lock  
Beam width control  
Switch, heated rear window/door mirrors  
Switch, power door mirrors  
Ambient air temperature gauge  
Anti-theft alarm





Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness



Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - sill harness

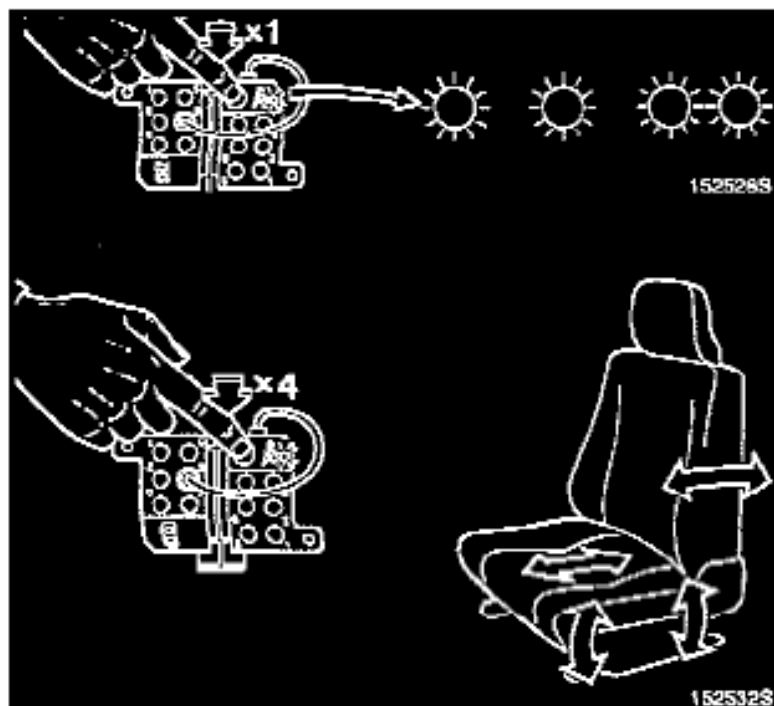
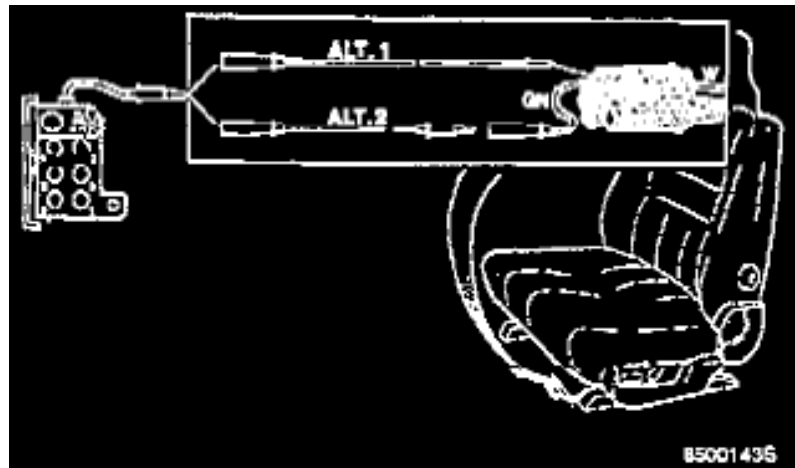
# B200F/G/FT, B230F/FB/FD/G/FT/GT

1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	B200FT, B230FT/GT: Washer motor, tailgate Others: L/H/Regina control module (MFI) pos. 30	(BL-Y) (P-W)
6	B200FT, B230FT/GT: LH (MFI) control module pos. 12 Others with EZK (DI): Ignition coil 15	(GN-GR) (BL)
7	B200FT, B230FT/GT: LH (MFI) control module pos. 30 Others: Battery + Relay, radio interference suppression pos. 2 and 4	(BN)   
8	Oxygen sensor (HO2S) heating	(P)
9	L/H/Regina control module (MFI) pos. 9 Idle air control (IAC) valve pos. 1 Relay, radio interference suppression pos. 2 (not FT/GT) Mass air flow sensor (MAF) pos. 5 B200FT, B230FT/GT: PTC-resistor	(BL-Y)      
10	L/H/Regina control module (MFI) pos. 35	(BL)
11	L/H/Regina control module (MFI) pos. 22	(BN-W)
12	L/H/Regina control module (MFI) pos. 4	(BN) (W)
13	Front foglights	(W-SB)
14	L/H/Regina control module (MFI) pos. 20	(Y-SB)
15	Headlight wiper motor (not USA/CDN) L/H/Regina control module (MFI) pos. 26 (USA/CDN)	(Y) (W-SB)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor (not USA, CDN) B230FT USA, CDN: Washer motor B200FT, B230FT/GT EU/AS: Headlight wiper motor Washer motor	(BL-R)     
18	L/H/Regina control module (MFI) pos. 1	(Y-GR)
19	L/H control module (MFI) pos. 28	(GR-R)
20	-	
21	L/H control module (MFI) pos. 15	(GN-Y)
22	L/H/Regina control module (MFI) pos. 21	(R)
23	-	
24	B200FT, B230FT/GT: Washer fluid level sensor Others: L/H/Regina control module (MFI) pos. 12	(BL-W)   (GN-W)
25	L/H/Regina control module (MFI) pos. 34	(VO-W)

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(W-SB) (BN-SB) (BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeaters	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post





Power seats in the above models can be operated only with the ignition on.

A1

- Switch off ignition.

A2

- Manual fault tracing/calibration: Connect auxiliary lead between green lead (alternative 2, later version) in connector at front of driver's seat and test lead on DLC (diagnostic unit) A.

On 940 without a green lead (alternative 1, earlier version), connect auxiliary lead to connector terminal 4.

- Fault tracing/calibration using Volvo Scan Tool (VST) with On-Board Diagnostic (OBD) System Memory Cassette: Connect auxiliary lead to terminal 6 on the VST adapter cable.

A3

Ignition must be off for at least 5 seconds before performing this step.

- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

A4

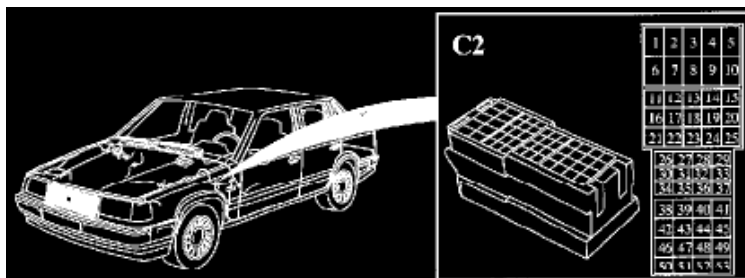
Diagnostic system must now be activated within 1 minute, i.e., test button must be pressed once to select diagnostic test mode (DTM) 1 (self-diagnostics) or four times to select test mode 4 (calibration).

Control module will exit diagnostic function after approx. 1 minute if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off for at least 5 seconds. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of service manual (SM) TP 32015/1; use of DTM 4 (calibration) is described on SM page 7.

Method For Version 2 (B)





**Black connector C2 (53-pin)**  
Instrument panel harness - left wheel housing harness

B 230 F REX-I		
1	Starter motor 50	(BL-GN)
2	High beam left	(BL-W)
3	Low beam left	(GN)
4	Horn +	(Y)
Windshield wiper motor pos. 1		
Headlight wiper motor (not USA/CDN)		
5	Windshield wiper motor pos. 2	(GR)
6	Windshield wiper motor pos. 3	(GN-W)
7	Windshield wiper motor pos. 4	(OR)
8	Front foglights	(W-SB)
9	Control module REX-I (DI) pos. 5	(BN)
10	-	
11	On-board diagnostic (OBD) socket B pos. 5	(GR-OR)
12	On-board diagnostic (OBD) socket A pos. 5	(BL-P)
13	Turn signal, left	(GN)
14	Parking light, left	(W)
15	-	
16	Oil pressure sensor	(SB)
17	Horn -	(BL-SB)
18	Headlight wiper motor (not USA/CDN)	(BL-R)
Windshield washer motor		
19	Brake fluid level sensor	(VO)
20	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)
22	Generator D+	(R)
23	On-board diagnostic (OBD) socket B pos. 6	(BL-W)
24	Service socket	(P)
25	On-board diagnostic (OBD) socket A pos. 2	(GN-W)
26	Control module REX-I (DI) pos. 3	(BN-W)
27	Power amplifier/ignition coil REX-I (DI) pos. C	(R-W)
28	On-board diagnostic (OBD) socket A pos. 4	(BL)
Control module REX-I (DI) pos. 6		
Power amplifier/ignition coil REX-I (DI) pos. A		
29	Control module REX-I (DI) pos. 17	(Y-GR)
30	-	
31	-	
32	Washer fluid level sensor	(R-SB)
33	Washer motor, tailgate	(BL-Y)
34	Door switch	(BN-SB)
35	Door switch	(W-SB)
36	-	
37	-	
38	Ambient temperature sensor	(GN-Y)
39	Ambient temperature sensor	(GN-R)
40	Anti-theft alarm, connector D4 pos. 1	(GR-W)
41	Anti-theft alarm, connector D4 pos. 2	(BN-P)
42	Control module cruise control pos. 10	(BN-GR)
43	Control module cruise control pos. 2	(P-SB)
44	Control module cruise control pos. 7	(BN-OR)
45	Control module cruise control pos. 11	(BL-OR)
46	Control module cruise control pos. 6	(BL-GR)
47	Control module cruise control pos. 4	(OR-W)
48	Control module cruise control pos. 3	(OR-SB)
49	Control module cruise control pos. 13	(GN-OR)
50	-	
51	-	
52	-	
53	-	

Connector At Left A-post





6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

Components 7/4 - 9/6

No. Component Name

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI)system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan

7/41 High-pressure sensor, A/C

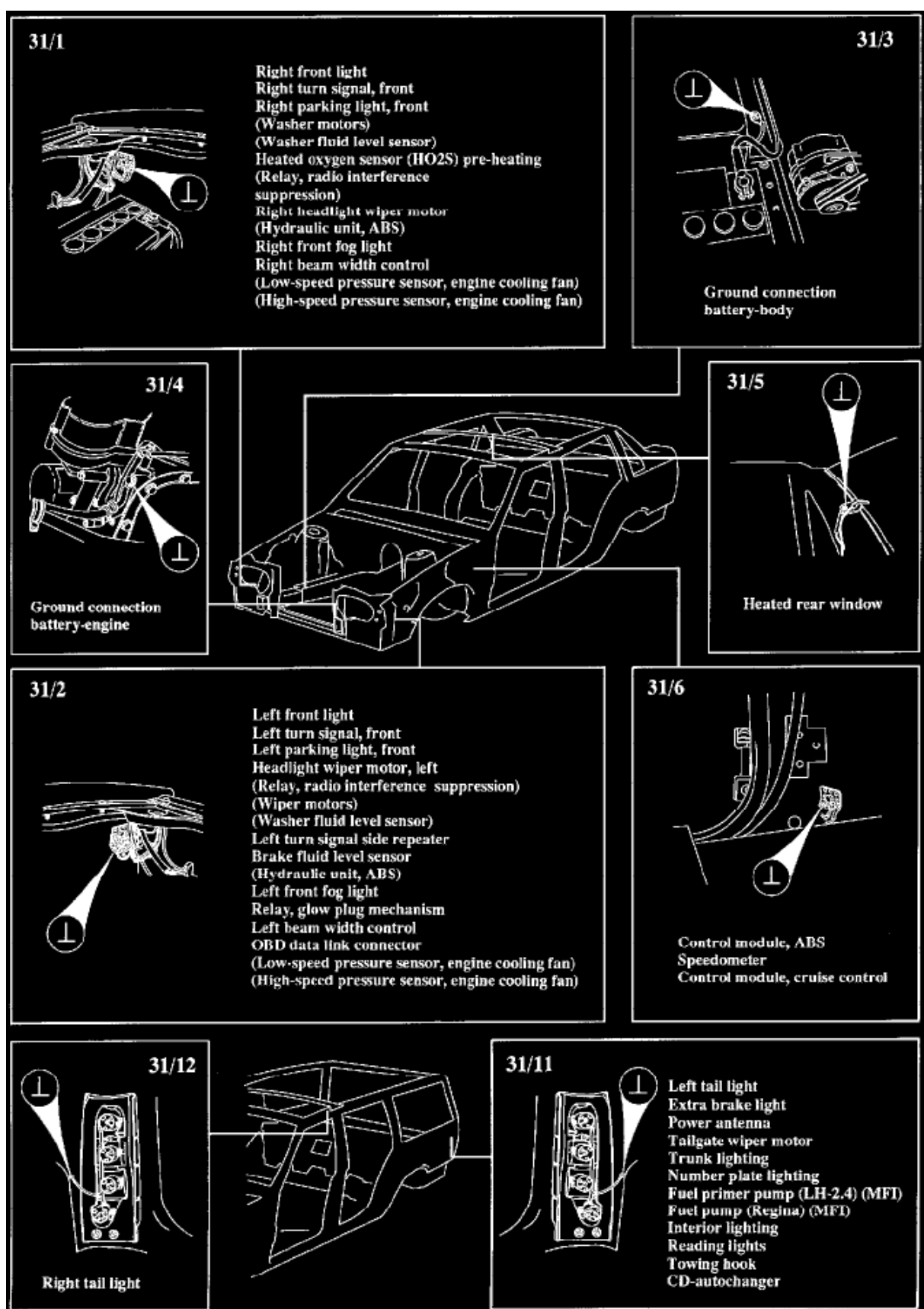
7/43 Thermostat, driver's seat

7/44 Thermostat, passenger's seat

7/47 PTC-resistor, air pre-heating

7/50 Pressure sensor, intake manifold





Ground Connections

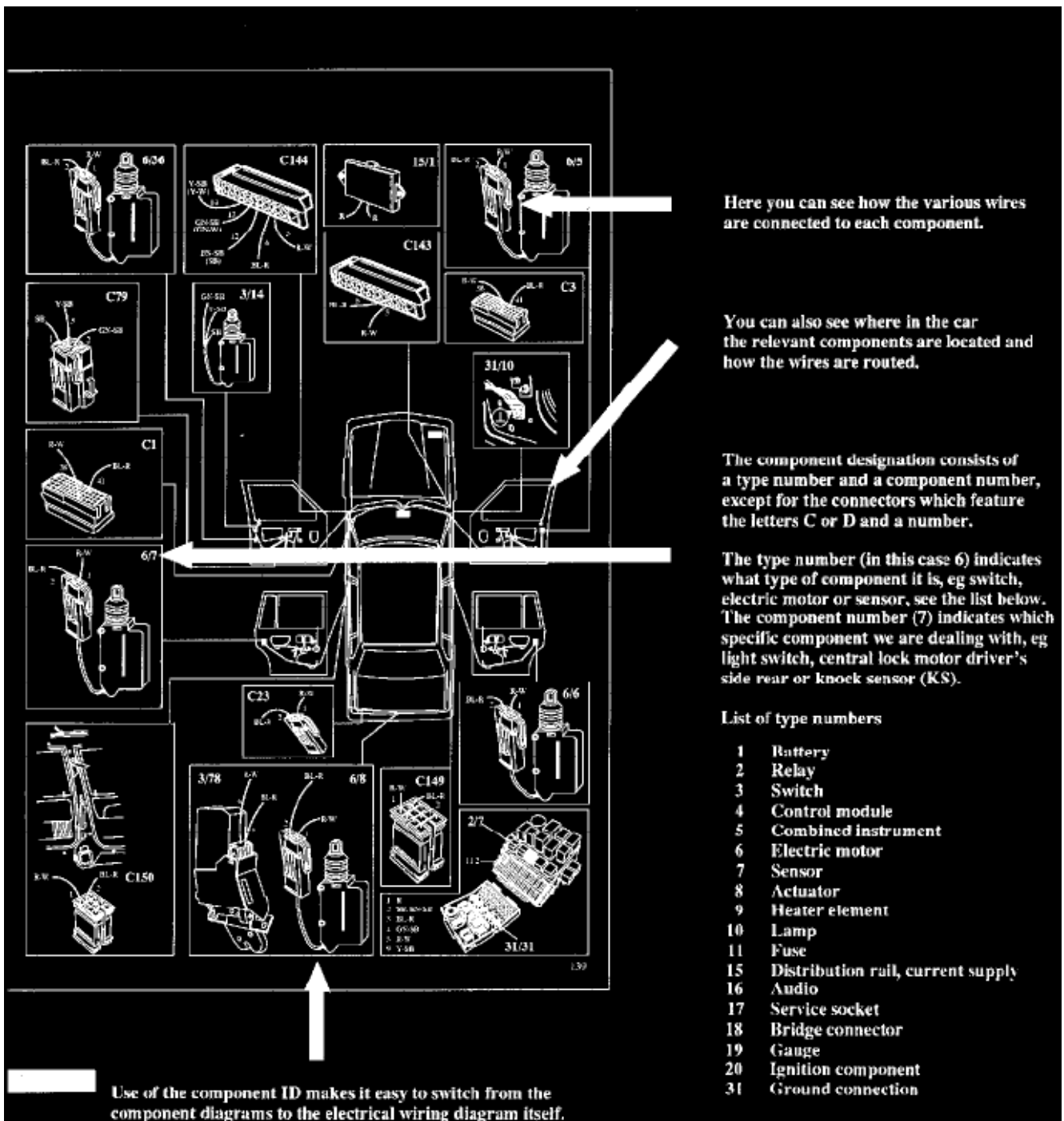


Diagram Information

Complete Component List

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

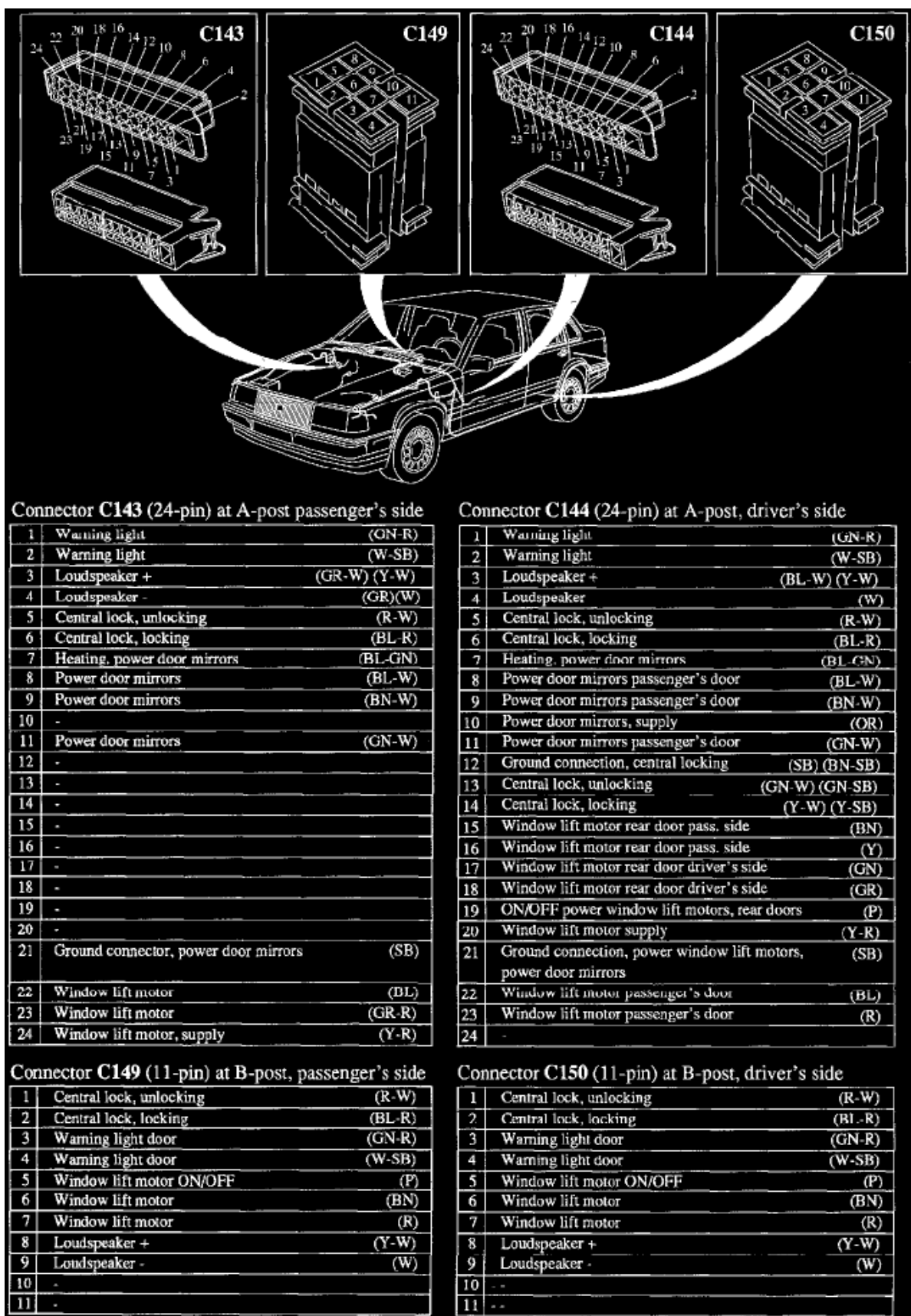
2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection







Connectors For Doors



**Black connector C2 (53-pin)**  
Instrument panel - left wheel housing

	B200F/FT, B230F/FB/FTD/G/FT/GT-EZK (DI)	D24/D24TIC
1	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN) Relay, glowplug mechanism pos. 3
2	High beam, left (BL-W)	High beam, left (BL-W)
3	Low beam, left (GN)	Low beam, left (GN)
	Beam width control (Germany) (GN-BN)	Beam width control (Germany) (GN-BN)
4	Horn + (Y) Windshield wiper motor pos. 1 Headlight wiper motor (not USA/CDN)	Horn + (Y) Windshield wiper motor pos. 1 Headlight wiper motor
5	Windshield wiper motor pos. 2 (GR)	Windshield wiper motor pos. 2 (GR)
6	Windshield wiper motor pos. 3 (GN-W)	Windshield wiper motor pos. 3 (GN-W)
7	Windshield wiper motor pos. 4 (OR)	Windshield wiper motor pos. 4 (OR)
8	Front foglights (W-SB)	Front foglights (W-SB)
9	Control module EZK (DI) pos. 5 (not FT/GT) (BL) (BN)	Relay, glowplug mechanism pos. 4 Pos. 3, connector C51 at left suspension tower
10	B200FT, B230FT/GT: Battery + (BN) Relay, radio interference suppression pos. 4	
11	On-board diagnostic (OBD) socket B pos. 5 (GR-OR)	On-board diagnostic (OBD) socket B pos. 5 (GR-OR)
12	On-board diagnostic (OBD) socket A pos. 3 (BL-P)	On-board diagnostic (OBD) socket A pos. 3 (BL-P)
13	Turn signal, left (GN)	Turn signal, left (GN)
14	Parking lights, left (W)	Parking lights, left (W)
15	Beam width control (Germany) (GR)	Beam width control (Germany) (GR)
16	Oil pressure sensor (SB)	Oil pressure sensor (SB)
17	Horn - (BL-SB)	Horn - (BL-SB)
18	Headlight wiper motor (not USA/CDN) (BL-R) Windshield washer motor (not FT/GT)	Headlight wiper motor (BL-R)
19	Brake fluid level sensor (VO)	Brake fluid level sensor (VO)
20	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)
21	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)
22	Generator D+ (R)	Generator D+ (R)
23	On-board diagnostic (OBD) socket B pos. 6 (BL-W)	On-board diagnostic (OBD) socket B pos. 6 (BL-W)
24	Service socket (P)	Service socket (P)
25	On-board diagnostic (OBD) socket A pos. 2 (GN-GR)(GN-W)	
26	Ignition Control Module (ICM) pos. 3 (BN-W)	
27	Power amplifier EZK (DI) pos. 1 (R-W) Ignition coil 1	Generator W (R-W)
28	Ignition Control Module (ICM) pos. 6 (BL) Power amplifier EZK (DI) pos. 4 On-board diagnostic (OBD) socket A pos. 4 Converter, EGR (B230FD and B230FT California)	On-board diagnostic (OBD) socket A pos. 4 (BL)
29	Ignition Control Module (ICM) pos. 17 (Y-GR)	
30	-	Pressure sensor, turbodiesel (D24TIC) (Y-R)
31	-	
32	B200FT, B230FT/GT: Ignition Control Module (ICM) pos. 5 (BN)(BN-W) Others: Washer fluid level sensor (R-SB)(BL-W)	
33	B200FT, B230FT/GT: Relay, radio interference suppression pos. 2 (BL-Y) Others: Wiper motor, tailgate	
34	Door switch (BN-SB)	Door switch (BN-SB)
35	Door switch (W-SB)	Door switch (W-SB)
36	-	
37	Ignition Control Module (ICM) pos. 4 (GR-R)	Relay, glowplug mechanism pos. 1 (GR)
38	Ambient temperature sensor (GN-Y)	Ambient temperature sensor (GN-Y)
39	Ambient temperature sensor (GN-R)	Ambient temperature sensor (GN-R)
40	Anti-theft alarm, connector D4 pos. 1 (GR-W)	Anti-theft alarm, connector D4 pos. 1 (GR-W)
41	Anti-theft alarm, connector D4 pos. 2 (BN-P)	Anti-theft alarm, connector D4 pos. 2 (BN-P)
42	Control module cruise control pos. 10 (BN-GR)	
43	Control module cruise control pos. 2 (P-SB)	
44	Control module cruise control pos. 7 (BN-OR)	
45	Control module cruise control pos. 11 (BL-OR)	
46	Control module cruise control pos. 6 (BL-GR)	
47	Control module cruise control pos. 4 (OR-W)	
48	Control module cruise control pos. 3 (OR-SB)	
49	Control module cruise control pos. 13 (GN-OR)	
50	B230FD: Solenoid valve, pulsed secondary air injection (PAIR) (BL-W)	
51	-	
52	-	
53	-	

Connector At Left A-post

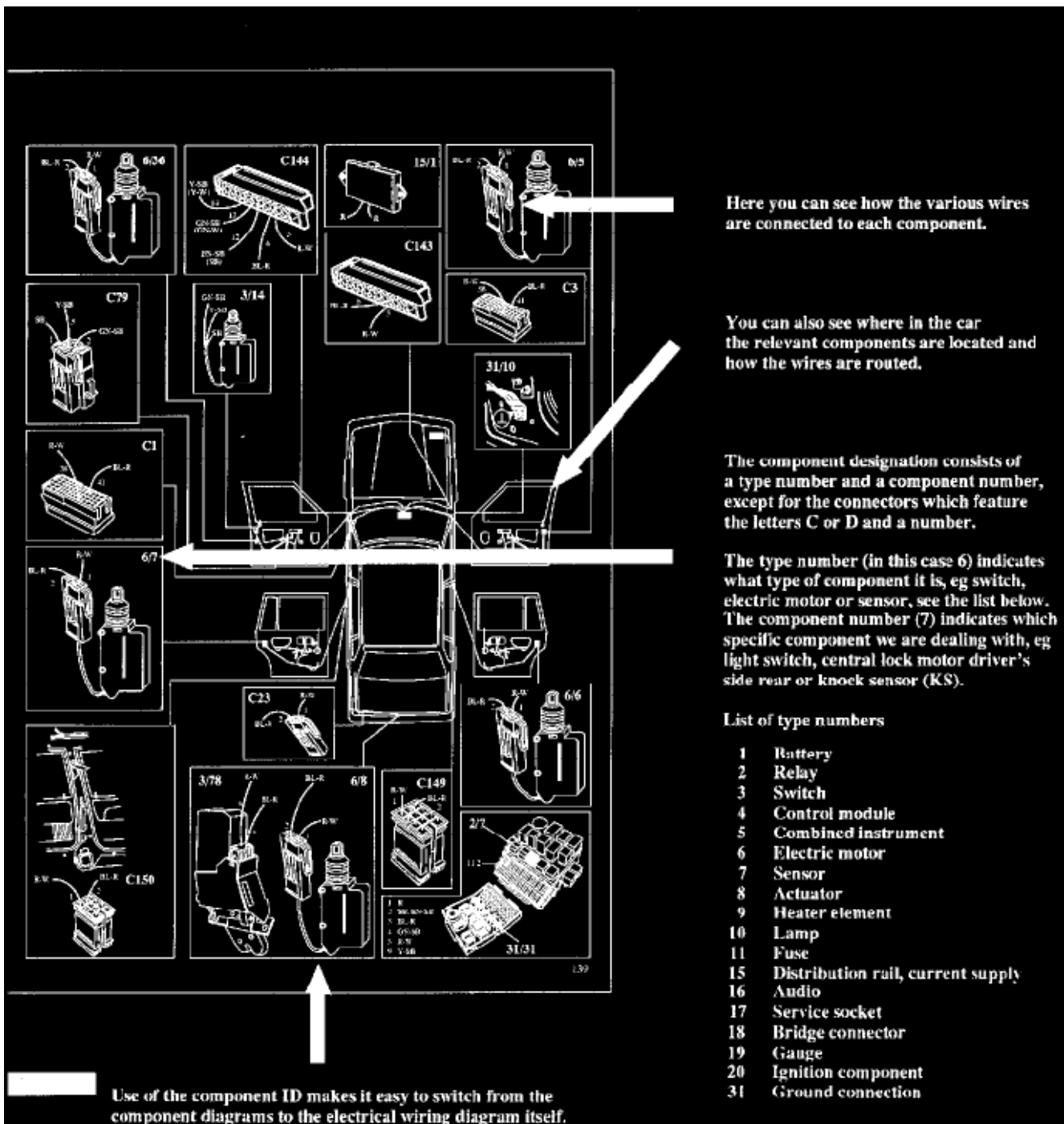


Diagram Information

Complete Component List

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection





4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front

6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan



6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI)system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SR)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

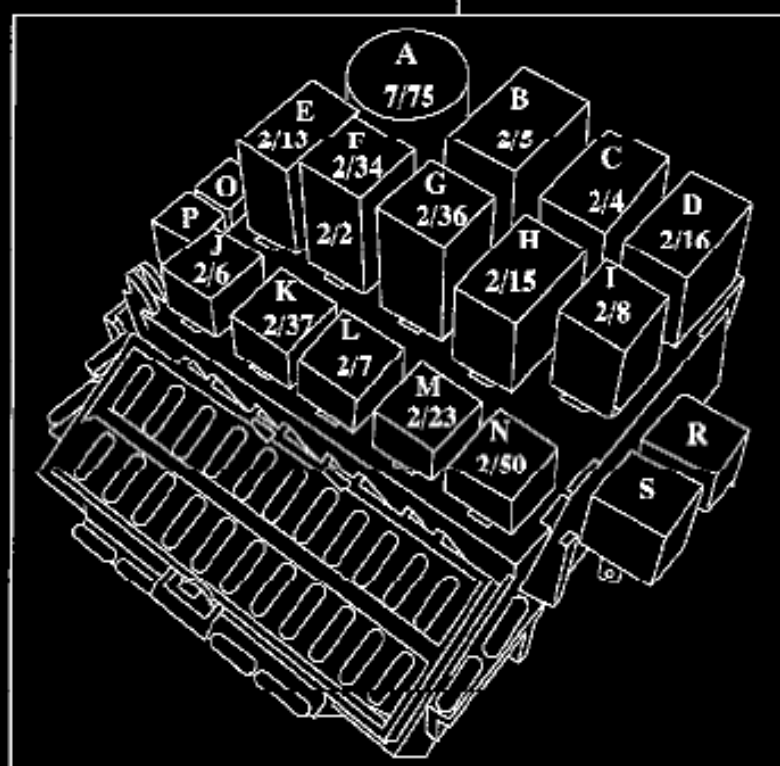
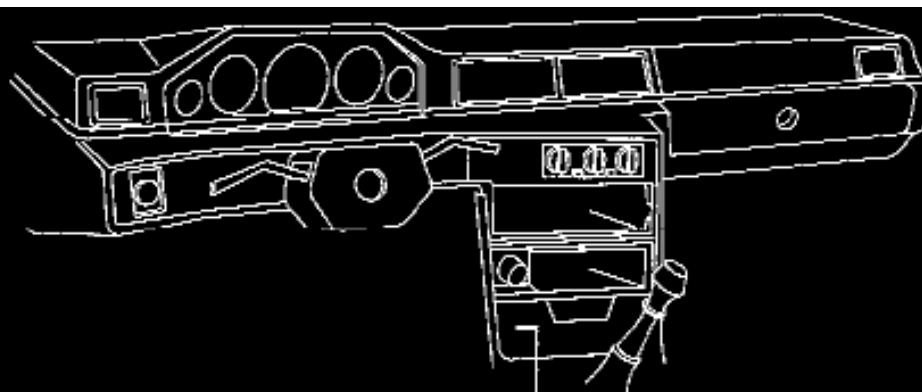
**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	





Relays in electrical distribution unit

- |   |  |   |   |
|---|--|---|---|
| A | Bulb failure warning sensor (7/75)                           | J | Overload relay 15I (2/6)<br>(power windows/seat heater) |
| B | Seat belt reminder/key warning (2/5)<br>(USA, Canada, Korea) | K | Headlight (2/37)  |
| C | Windshield wiper intermittent relay (2/4)                    | L | Central lock (2/7)                                      |
| D | Tailgate wiper intermittent relay (2/16)                     | M | Fuel pump relay (2/23)                                  |
| E | Fuel injection (2/13)  | N | Overload relay high beam (2/50)<br>(not USA, Canada)    |
| F | Foglights, front (2/34 or 2/2 USA, Canada)                   | O | -   |
| G | Headlight flasher (2/36)                                     | P | -   |
| H | Exhaust temp. sensor (2/15) (Japan)                          | R | -   |
| I | Overdrive (2/8)  | S | -   |

Relay, front foglights (USA/CDN)

20 Right low beam

Beam width control

21 Left parking lights, front and rear

Number plate lights

Instrument and control panel lights

Ambient temperature sensor

22 Relay, front foglights (Europe)

Right parking lights, front and rear

Ashtray light, rear

Automatic transmission selector illumination

Lighting, switches and storage compartment in centre console

23 Heated front seats

24 ABS

25 Rear foglights (USA, Canada, Japan)

Disconnectable low beam (Nordic market, Netherlands, Belgium)

26 Amplifier, radio

Relays In Electrical Distribution Unit







20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor

Components 31/1 - 31/64

No. Component Name

31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

Wire Color Code Identification

SB = Black

GR = Grey

W = White

R = Red

BN = Brown

Y = Yellow

P = Pink

BL = Blue

GN = Green

OR = Orange

VO = Violet

Y-GR = Yellow-Grey





10/68 Left high beam

10/69 Left extra high beam

10/70 Left low beam

10/72 Ashtray lighting, front

10/74 Indicator light, exhaust gas temperature

10/75 Indicator light, charge pressure, turbodiesel

10/76 Indicator light, diesel preheating

10/77 Indicator light, SRS (airbag)

10/78 Indicator light, seat belt

10/79 Indicator light, overdrive (auto.)/Gear selection indicator

10/80 Indicator light, overdrive (man.)

10/82 indicator light, ABS

10/83 Indicator light, parking brake

10/84 Indicator light, brake warning

10/85 Indicator light, high beam

10/86 Indicator light, oil pressure

10/87 Indicator light, charge

10/88 Indicator light, bulb failure

10/89 Indicator light, rear foglights

10/90 Indicator light, washer fluid level

10/91 Service indicator

10/92 Indicator light, trailer

10/93 Indicator light, malfunction indicator lamp (MIL)

10/94 Indicator light, right turn signal

10/95 Indicator light, left turn signal

10/96 Instrument lighting

10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side

Components 11/1 - 20/18

No. Component Name

11/1-26 Fuses 11/41

Fuse, combined instrument

15/1 Positive terminal

15/2 30-rail in el. distribution unit

15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil



6/3 Right headlight wiper motor



6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

Components 7/4 - 9/6

No. Component Name

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI)system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan

7/41 High-pressure sensor, A/C

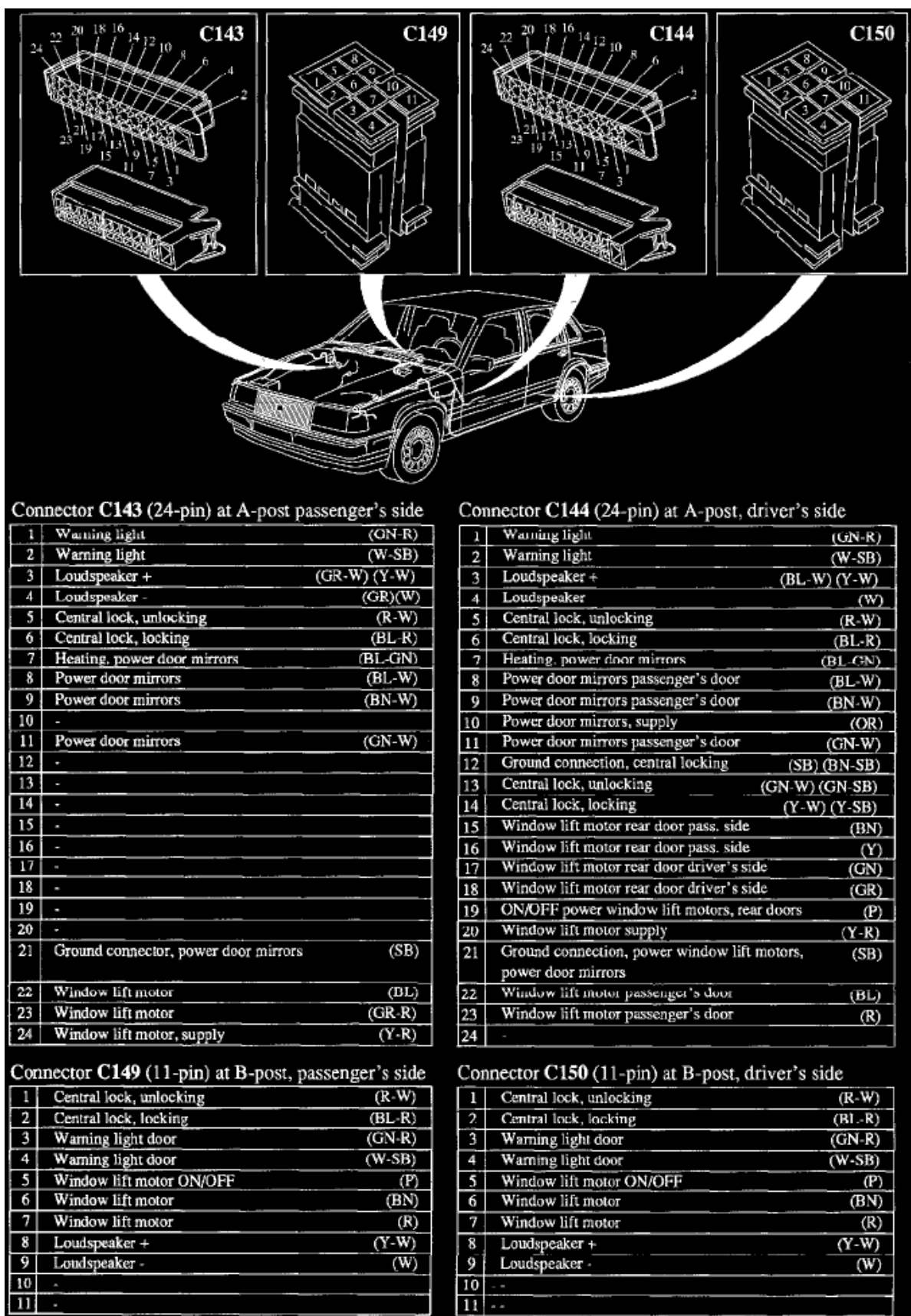
7/43 Thermostat, driver's seat

7/44 Thermostat, passenger's seat

7/47 PTC-resistor, air pre-heating

7/50 Pressure sensor, intake manifold





Connectors For Doors



C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, ate. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components 1/1 - 3/70

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection

2/34 Relay, front foglights

2/36 Headlight flasher

2/37 Headlight relay

2/38 Timer relay, exhaust gas recirculation (EGR)

2/45 Relay, P-shift lock

2/50 Bypass relay, high beam

3/1 Ignition lock

3/2 Light switch

3/4 Cruise control operation

3/5 Switch, turn signal/high-low beam

3/6 Switch, hazard warning flashers

3/7 Foglight switch

3/8-1 Switch, heated rear window

3/8-2 Switch with timer relay, heated rear window/door mirrors

3/9 Brake light switch





1 Fuel pump (LH-2.4 MFI)

Fuel system

Distributor Ignition (DI) system

Oxygen sensor (HO2S) heating (B200/230FT)

2 Hazard warning flashers

Headlight flasher (via fuse 17 and 18)

Central locking

Anti-theft alarm

3 Power seats (Towing hook)

4 Brake lights Solenoid, P-shift lock

5 Clock

Vanity mirror light

Glove compartment lighting

Trunk light

Interior lighting

Radio

Power antenna

Door-open warning lights

CD.autochanger

Anti-theft alarm

6 Electronic Climate Control (ECC) Cabin fan, Electronic Climate Control (ECC)

7 Front foglights

Rear foglights (not USA, Canada)

8 Power windows

9 Turn signals

Warning lights for seat belts

Seat belt reminder

Ignition key warning

Bypass relay 151 (power windows/seat heating)

Solenoid, P-shift lock

(Towing hook)

10 Heated rear window

Power sunroof

Heated door mirrors

11 Fuel primer pump in fuel tank (LH-2.4 MFI) Fuel pump in tank (Regina MFI) Oxygen sensor (HO2S) heating

12 Backup (reversing) lights Overdrive relay

Bulb malfunction indicator with brake monitor

Exhaust temperature sensor (Japan)

Cruise control

Anti-theft alarm

Fuse no. Functions

13 Fuel valve, diesel

Pre-heating mechanism, diesel

EGR diesel

Solenoid, pulsed secondary air injection (PAIR) (B23OFD)

14 Power door mirrors

Cigar lighter

Radio

Tailgate washer

Tailgate wiper

Ambient temperature sensor

15 Relays, power seat5

Horn

Windshield wash/wipe

Headlight wash/wipe

16 Cabin fan, standard heater

Cabin fan, Manual Climate Control (MCC)

Electronic Climate Control (ECC)

17 Left high beam

Indicator light, high beam

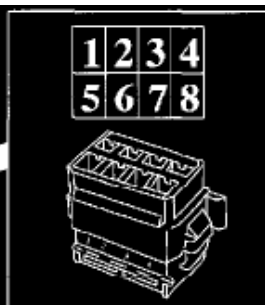
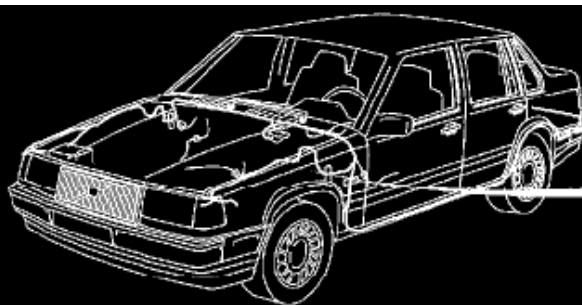
18 Right high beam

Front fog lights (Japan, Taiwan and Saudi Arabia)

19 Left low beam

Beam width control





### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment





C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102 Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, at el. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components C/1 - D7

No. Component Name

C1 Connector, 53-pin

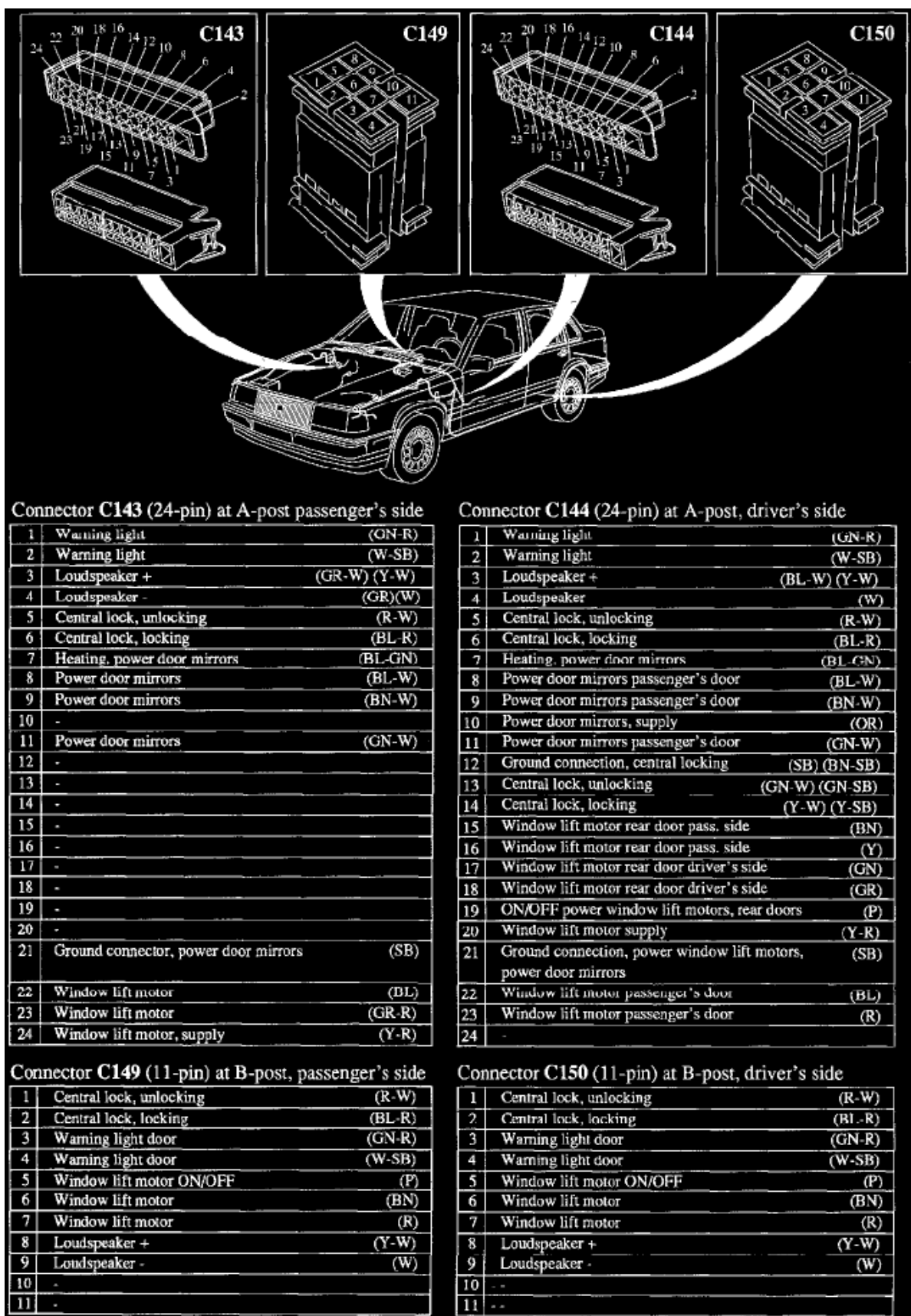
Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

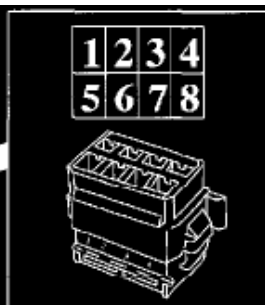
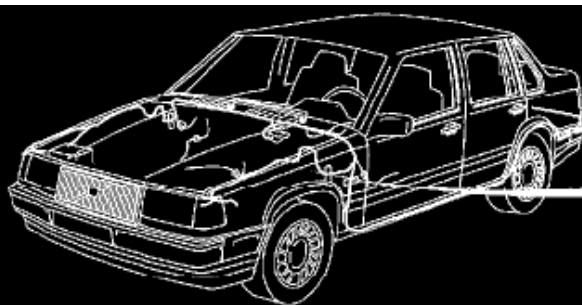
C3 Connector, 53-pin





Connectors For Doors





### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)	-	
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment







10/68 Left high beam  
 10/69 Left extra high beam  
 10/70 Left low beam  
 10/72 Ashtray lighting, front  
 10/74 Indicator light, exhaust gas temperature  
 10/75 Indicator light, charge pressure, turbodiesel  
 10/76 Indicator light, diesel preheating  
 10/77 Indicator light, SRS (airbag)  
 10/78 Indicator light, seat belt  
 10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
 10/80 Indicator light, overdrive (man.)  
 10/82 indicator light, ABS  
 10/83 Indicator light, parking brake  
 10/84 Indicator light, brake warning  
 10/85 Indicator light, high beam  
 10/86 Indicator light, oil pressure  
 10/87 Indicator light, charge  
 10/88 Indicator light, bulb failure  
 10/89 Indicator light, rear foglights  
 10/90 Indicator light, washer fluid level  
 10/91 Service indicator  
 10/92 Indicator light, trailer  
 10/93 Indicator light, malfunction indicator lamp (MIL)  
 10/94 Indicator light, right turn signal  
 10/95 Indicator light, left turn signal  
 10/96 Instrument lighting  
 10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side 11/1-26 Fuses 11/41  
 Fuse, combined instrument  
 15/1 Positive terminal  
 15/2 30-rail in el. distribution unit  
 15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil

20/2 Distributor

20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor





2/36 Headlight flasher

2/37 Headlight relay

2/38 Timer relay, exhaust gas recirculation (EGR)

2/45 Relay, P-shift lock

2/50 Bypass relay, high beam

3/1 Ignition lock

3/2 Light switch

3/4 Cruise control operation

3/5 Switch, turn signal/high-low beam

3/6 Switch, hazard warning flashers

3/7 Foglight switch

3/8-1 Switch, heated rear window

3/8-2 Switch with timer relay, heated rear window/door mirrors

3/9 Brake light switch

3/10 Backup (reversing) light switch

3/12 Switch, windshield wash/wipe

3/13 Switch, tailgate wash/wipe

3/14 Switch, lock button

3/15 Power window switch, driver's door for driver's door

3/16 Power window switch, driver's door for driver's side rear door

3/17 Power window switch, driver's door for passenger's side front

3/18 Power window switch, driver's door for passenger's side rear

3/19 Power window switch, driver's side rear

3/20 Power window switch, passenger's side front

3/21 Power window switch, passenger's side rear

3/22 Switch for rear power window lifts

3/23 Switch for power door mirror, driver's side

3/24 Switch for power door mirror, passenger's side

3/25 Switch for power sunroof

3/26 Operating module, driver's seat

3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 ontrol module LH-jetronic 2.4 (MFI) system



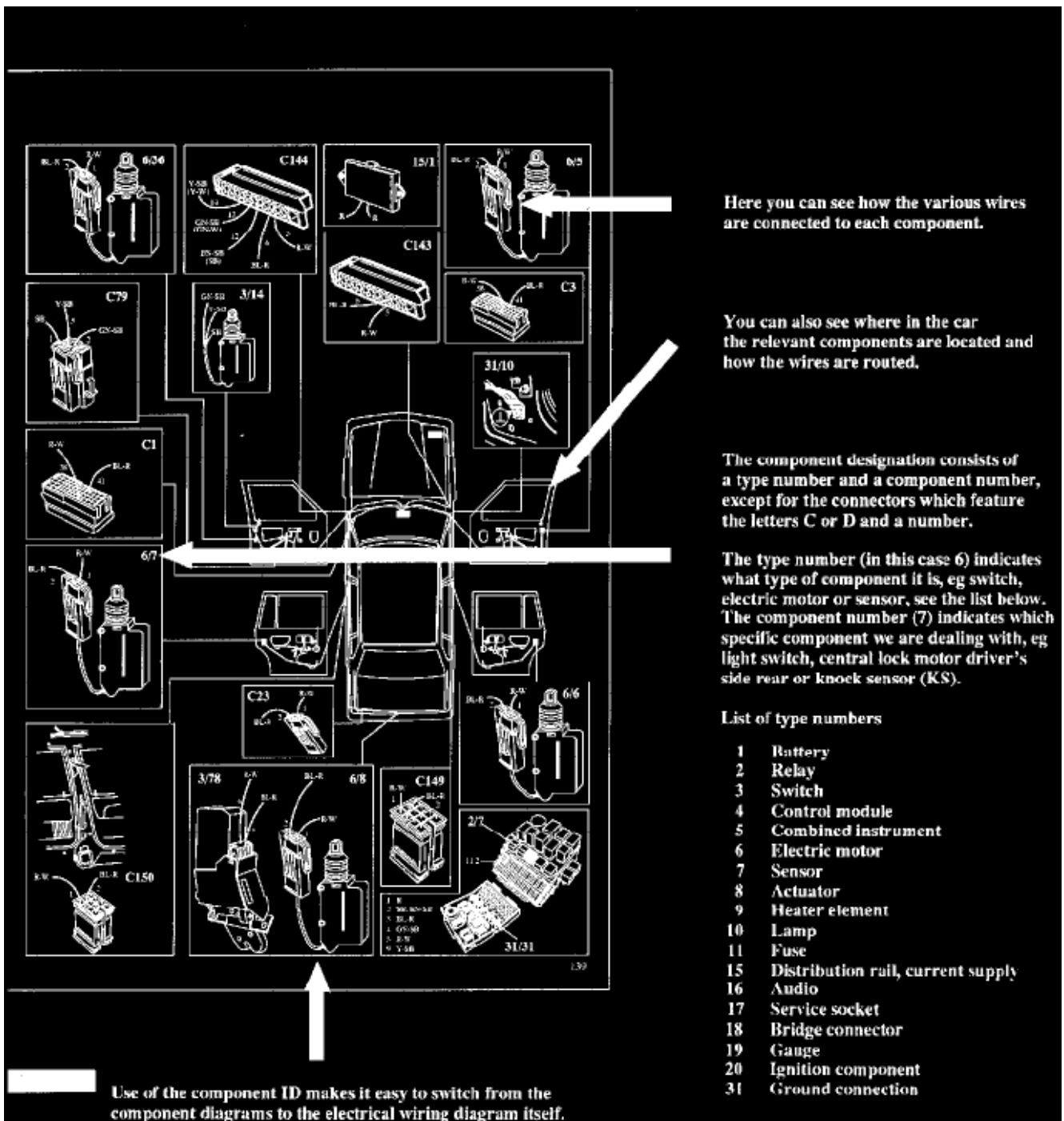


Diagram Information

Complete Component List

No. Component Name

1/1 Battery

2/2 Relay, front foglights

2/3 Regulator DIM-DIP

2/4 Intermittent relay, windshield wipers

2/5 Relay, seat belt reminder/ignition key warning

2/6 Bypass relay 151

2/7 Central locking relay

2/8 Overdrive relay

2/10 Power unit ECC

2/11 Relay, engine cooling fan

2/12 Relay, radio interference suppression

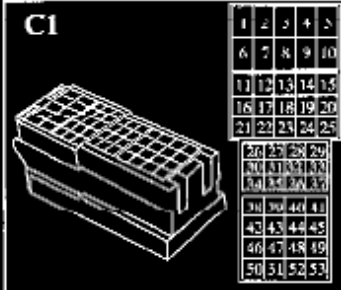
2/13 Relay, fuel injection (MFI)

2/14 Relay, glowplug mechanism

2/15 Relay, exhaust gas temperature sensor

2/16 Tailgate intermittent wiper relay

2/23 Relay, fuel injection

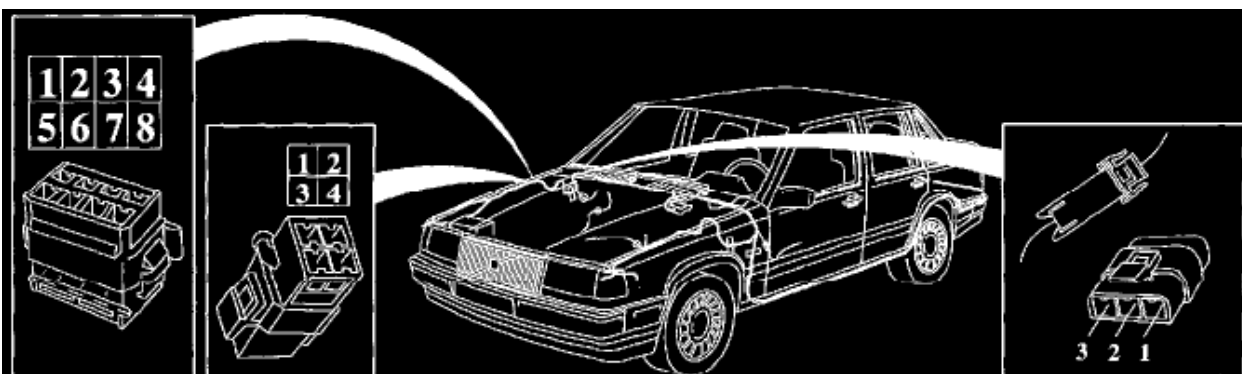


White connector C1 (53-pin)  
Instrument panel harness - sill harness

all models	
1	Tail lights (BN-W)
2	Tail lights (R)
3	Brake light, left (Y-R)
4	Brake light, right (Y)
5	Backup (reversing) lights (SB)
6	Number plate lights (W)
7	Turn signal, left rear (GN)
8	Turn signal, right rear (BL-GN)
9	Fuel level sensor/primer pump (pump) (GR-W)
10	Heated rear window (Y)
11	Sensor, speedometer - (BN-W)
12	Sensor, speedometer + (GN-W)
13	Door switch, pre-routed interior lighting (W-SB)
14	Towing hook pos. 10 (BL-GN)
15	Rear foglights (GR)
16	Fuel level sensor/primer pump (pump) (BN)
17	Fuel level sensor/primer pump (pump) (P)
18	Extra brake light (Y-SB)
19	Tailgate wiper (OR)
20	Tailgate wiper (Y-W)
21	Power antenna pos. 3 (GN-GR)
22	-
23	-
24	Ground connector, left A-post (BN-GR)
25	Towing hook pos. 9 (W-SB)
26	Towing hook pos. 7 (W)
27	Towing hook pos. 5 (GR)
28	Towing hook pos. 6 (Y-BN)
29	Door-open warning light, left rear Interior lighting Trunk light Power antenna pos. 1 (GN-R)
30	Interior lighting (BN-SB)
31	Connector, tailgate/trunk (anti-theft alarm) (BN-OR)
32	-
33	Loudspeaker rear parcel shelf right side + (GN-BN)
34	Loudspeaker rear parcel shelf right side - (GN)
35	Loudspeaker left rear door + Loudspeaker rear parcel shelf left side + (Y-W)
36	Loudspeaker left rear door - Loudspeaker rear parcel shelf left side - (W)
37	-
38	Central locking, rear door Central locking, tailgate/trunk (R-W)
39	-
40	-
41	Central locking, rear door Central locking, tailgate/trunk (BL-R)
42	-
43	-
44	-
45	-
46	-
47	-
48	-
49	-
50	Power window lift motor, rear door (GN)
51	Power window lift motor, rear door (GR)
52	-
53	Power window lift motor, rear door ON/OFF (P)

Connector At Left A-post





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

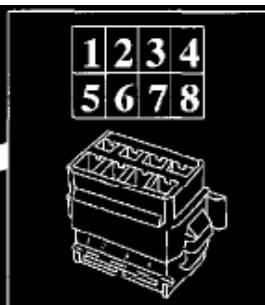
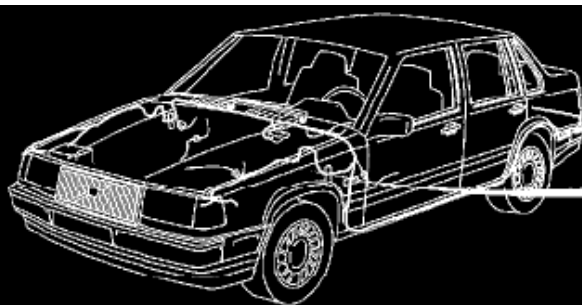
#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower	(Y)
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor (SB)	Oil pressure sensor	(SB)
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20	(BN)
4	Generator D+ (R)	Generator D+	(R)
5	Starter motor 50 (BL-GN)	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1	(OR)
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C132 (8-pin)

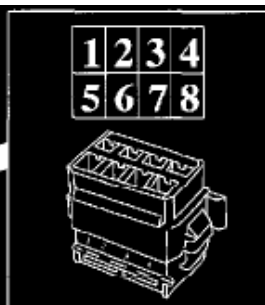
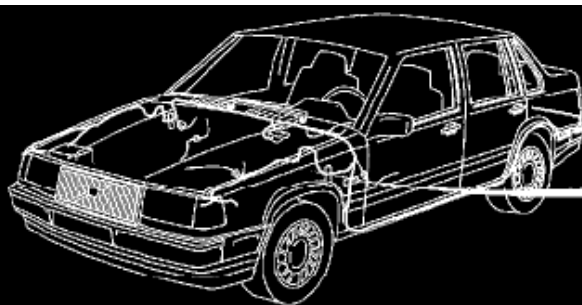
#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1	(R-W)
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier IZK (DI) California: Ground, ICM pos. 14	(SB)
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor IGR pos. 1 (California)	(Y-SB)
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15	(BL)
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1	(GN)
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2	(SB)
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment







### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)	-	
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment



6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

Components 7/4 - 9/6

No. Component Name

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI)system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan

7/41 High-pressure sensor, A/C

7/43 Thermostat, driver's seat

7/44 Thermostat, passenger's seat

7/47 PTC-resistor, air pre-heating

7/50 Pressure sensor, intake manifold



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

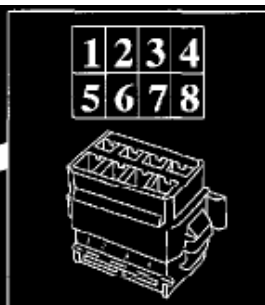
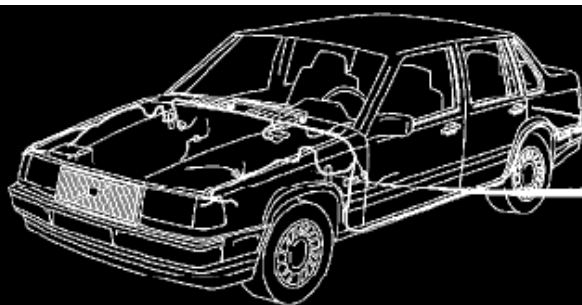
1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	







### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment



C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102 Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, at el. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))

C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components C/1 - D7

No. Component Name

C1 Connector, 53-pin

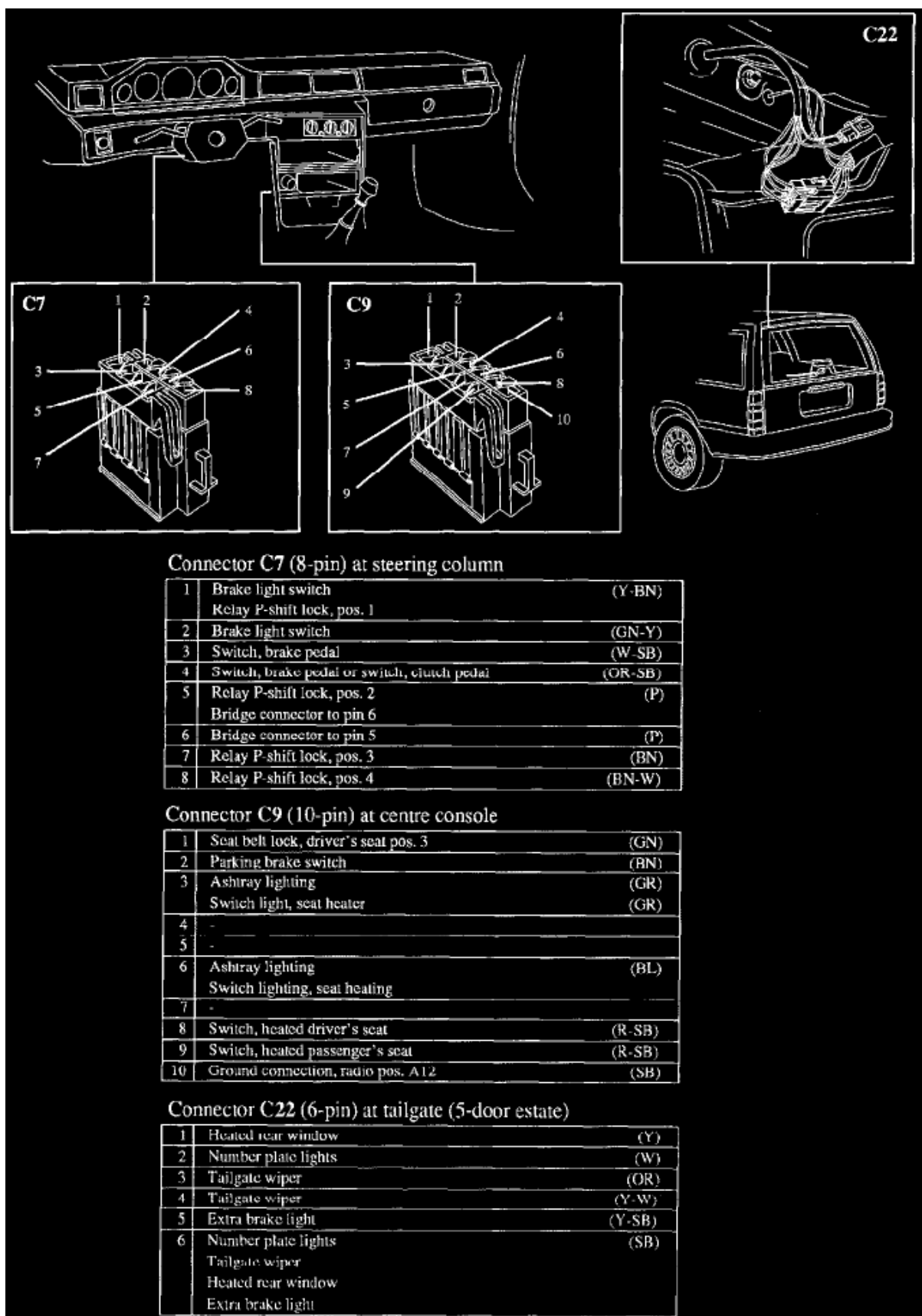
Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin

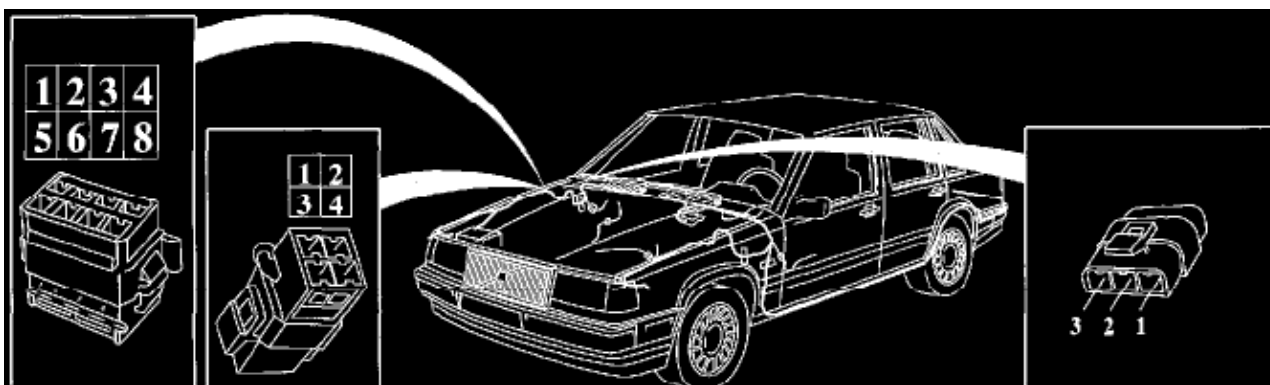




Connectors







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

Components 7/4 - 9/6

No. Component Name

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI)system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan

7/41 High-pressure sensor, A/C

7/43 Thermostat, driver's seat

7/44 Thermostat, passenger's seat

7/47 PTC-resistor, air pre-heating

7/50 Pressure sensor, intake manifold





2/36 Headlight flasher  
2/37 Headlight relay  
2/38 Timer relay, exhaust gas recirculation (EGR)  
2/45 Relay, P-shift lock  
2/50 Bypass relay, high beam  
3/1 Ignition lock  
3/2 Light switch  
3/4 Cruise control operation  
3/5 Switch, turn signal/high-low beam  
3/6 Switch, hazard warning flashers  
3/7 Foglight switch  
3/8-1 Switch, heated rear window  
3/8-2 Switch with timer relay, heated rear window/door mirrors  
3/9 Brake light switch  
3/10 Backup (reversing) light switch  
3/12 Switch, windshield wash/wipe  
3/13 Switch, tailgate wash/wipe  
3/14 Switch, lock button  
3/15 Power window switch, driver's door for driver's door  
3/16 Power window switch, driver's door for driver's side rear door  
3/17 Power window switch, driver's door for passenger's side front  
3/18 Power window switch, driver's door for passenger's side rear  
3/19 Power window switch, driver's side rear  
3/20 Power window switch, passenger's side front  
3/21 Power window switch, passenger's side rear  
3/22 Switch for rear power window lifts  
3/23 Switch for power door mirror, driver's side  
3/24 Switch for power door mirror, passenger's side  
3/25 Switch for power sunroof  
3/26 Operating module, driver's seat  
3/27 Operating module, passenger's seat



3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

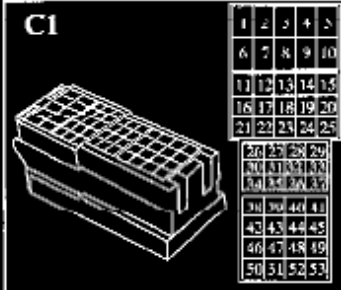
4/9 Sensor module, SRS (airbag)

4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 ontrol module LH-jetronic 2.4 (MFI) system



White connector C1 (53-pin)  
Instrument panel harness - sill harness

all models	
1	Tail lights (BN-W)
2	Tail lights (R)
3	Brake light, left (Y-R)
4	Brake light, right (Y)
5	Backup (reversing) lights (SB)
6	Number plate lights (W)
7	Turn signal, left rear (GN)
8	Turn signal, right rear (BL-GN)
9	Fuel level sensor/primer pump (pump) (GR-W)
10	Heated rear window (Y)
11	Sensor, speedometer - (BN-W)
12	Sensor, speedometer + (GN-W)
13	Door switch, pre-routed interior lighting (W-SB)
14	Towing hook pos. 10 (BL-GN)
15	Rear foglights (GR)
16	Fuel level sensor/primer pump (pump) (BN)
17	Fuel level sensor/primer pump (pump) (P)
18	Extra brake light (Y-SB)
19	Tailgate wiper (OR)
20	Tailgate wiper (Y-W)
21	Power antenna pos. 3 (GN-GR)
22	-
23	-
24	Ground connector, left A-post (BN-GR)
25	Towing hook pos. 9 (W-SB)
26	Towing hook pos. 7 (W)
27	Towing hook pos. 5 (GR)
28	Towing hook pos. 6 (Y-BN)
29	Door-open warning light, left rear Interior lighting Trunk light Power antenna pos. 1 (GN-R)
30	Interior lighting (BN-SB)
31	Connector, tailgate/trunk (anti-theft alarm) (BN-OR)
32	-
33	Loudspeaker rear parcel shelf right side + (GN-BN)
34	Loudspeaker rear parcel shelf right side - (GN)
35	Loudspeaker left rear door + Loudspeaker rear parcel shelf left side + (Y-W)
36	Loudspeaker left rear door - Loudspeaker rear parcel shelf left side - (W)
37	-
38	Central locking, rear door Central locking, tailgate/trunk (R-W)
39	-
40	-
41	Central locking, rear door Central locking, tailgate/trunk (BL-R)
42	-
43	-
44	-
45	-
46	-
47	-
48	-
49	-
50	Power window lift motor, rear door (GN)
51	Power window lift motor, rear door (GR)
52	-
53	Power window lift motor, rear door ON/OFF (P)

Connector At Left A-post

## **Diagram Information and Instructions**

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 138.

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

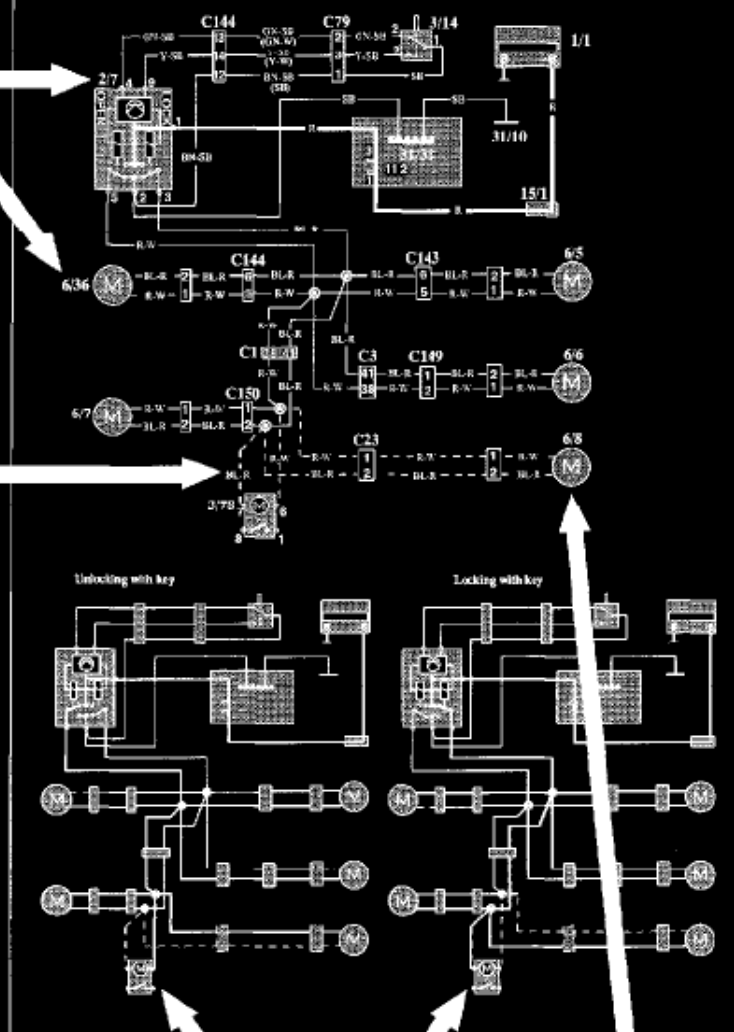
Each component has a component designation.  
At the end of the manual there is a component  
list where you can see what each component  
is called.

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	

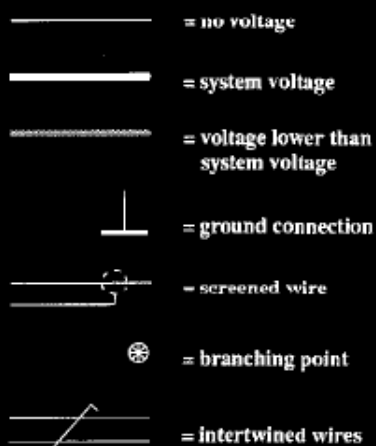
BL-R is thus = Blue-red.

### Central locking



Here you see the voltage under operational conditions.

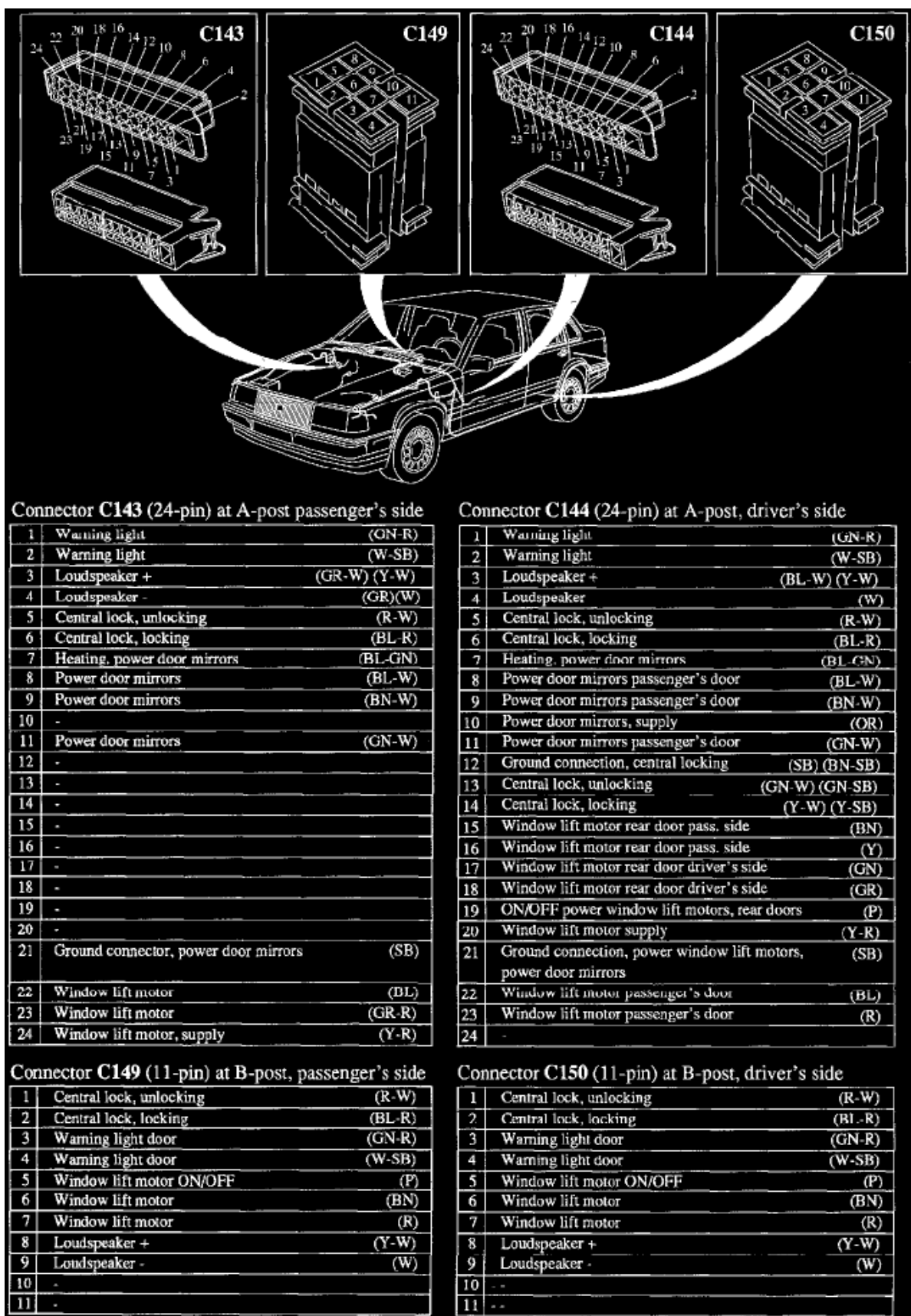
Code to colours in the wiring diagram



## Diagram Information







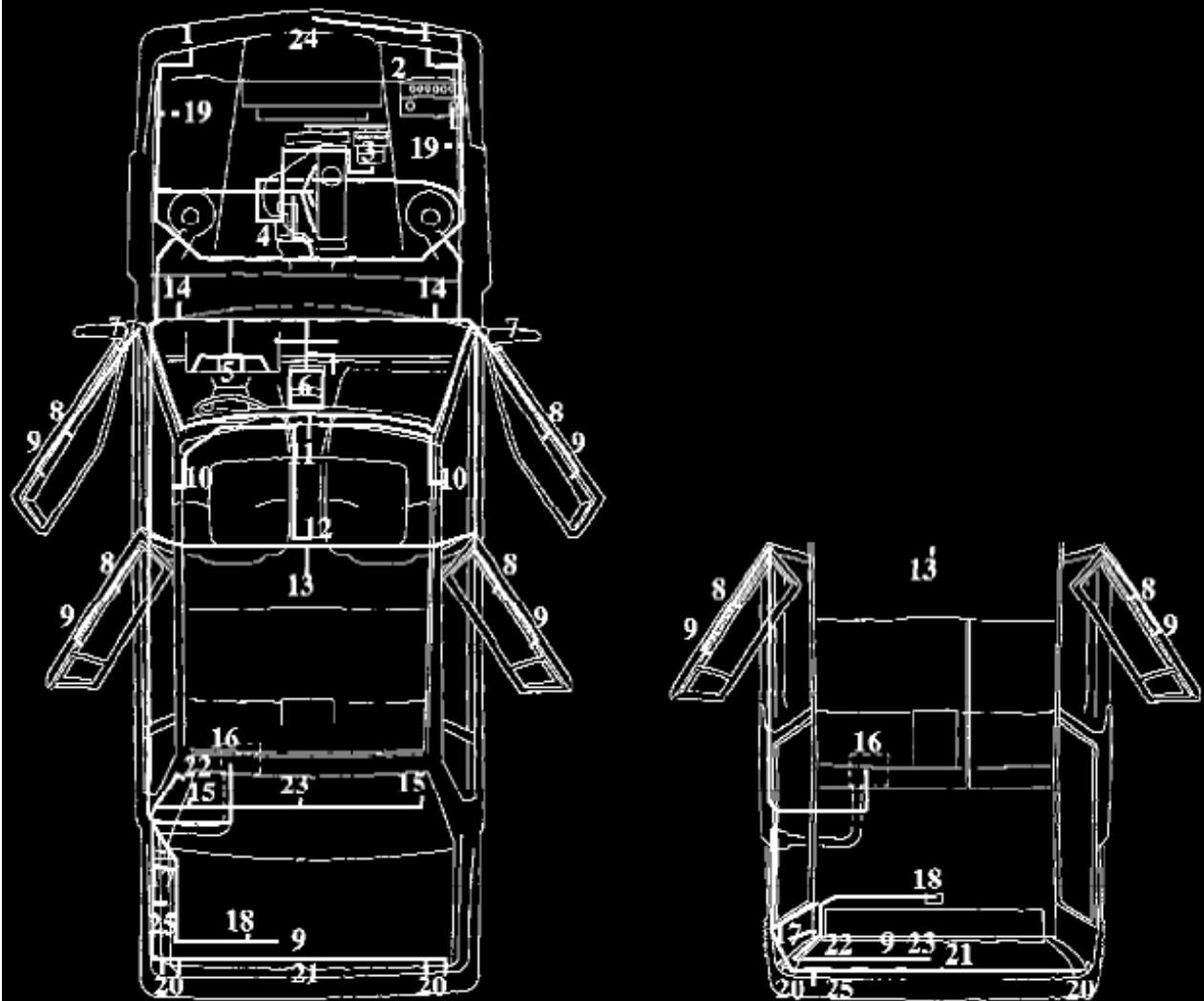
Connectors For Doors



## Cable routing

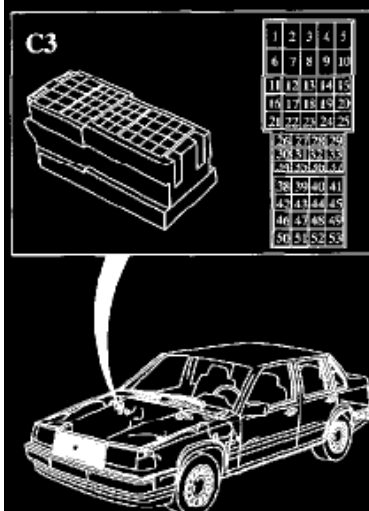
The routing of the main cables is shown in the illustration.

- |    |                              |    |                                   |
|----|------------------------------|----|-----------------------------------|
| 1  | Front lights                 | 13 | Interior lighting                 |
| 2  | Battery                      | 14 | Loudspeakers, instrument panel    |
| 3  | Generator                    | 15 | Loudspeakers, rear parcel shelf   |
| 4  | Starter motor                | 16 | Fuel gauge                        |
| 5  | Combined instrument          | 17 | Power antenna                     |
| 6  | Electrical distribution unit | 18 | Trunk lighting                    |
| 7  | Power door mirrors           | 19 | ABS hydraulic unit                |
| 8  | Power windows                | 20 | Tail lights                       |
| 9  | Central locking              | 21 | Number plate lighting             |
| 10 | Control modules, power seats | 22 | Heated rear window                |
| 11 | Motor, power sunroof         | 23 | Extra brake light                 |
| 12 | Ashtray lighting             | 24 | Engine cooling fan                |
|    |                              | 25 | Pre-routed wiring for towing hook |





Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness



Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - sill harness

# B200F/G/FT, B230F/FB/FD/G/FT/GT

1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	B200FT, B230FT/GT: Washer motor, tailgate Others: L/H/Regina control module (MFI) pos. 30	(BL-Y) (P-W)
6	B200FT, B230FT/GT: LH (MFI) control module pos. 12 Others with EZK (DI): Ignition coil 15	(GN-GR) (BL)
7	B200FT, B230FT/GT: LH (MFI) control module pos. 30 Others: Battery + Relay, radio interference suppression pos. 2 and 4	(BN)   
8	Oxygen sensor (HO2S) heating	(P)
9	LH/Regina control module (MFI) pos. 9 Idle air control (IAC) valve pos. 1 Relay, radio interference suppression pos. 2 (not FT/GT) Mass air flow sensor (MAF) pos. 5 B200FT, B230FT/GT: PTC-resistor	(BL-Y)      
10	LH/Regina control module (MFI) pos. 35	(BL)
11	LH/Regina control module (MFI) pos. 22	(BN-W)
12	LH/Regina control module (MFI) pos. 4	(BN) (W)
13	Front foglights	(W-SB)
14	LH/Regina control module (MFI) pos. 20	(Y-SB)
15	Headlight wiper motor (not USA/CDN) LH/Regina control module (MFI) pos. 26 (USA/CDN)	(Y) (W-SB)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor (not USA, CDN) B230FT USA, CDN: Washer motor B200FT, B230FT/GT EU/AS: Headlight wiper motor Washer motor	(BL-R)     
18	LH/Regina control module (MFI) pos. 1	(Y-GR)
19	LH control module (MFI) pos. 28	(GR-R)
20	-	
21	LH control module (MFI) pos. 15	(GN-Y)
22	LH/Regina control module (MFI) pos. 21	(R)
23	-	
24	B200FT, B230FT/GT: Washer fluid level sensor Others: LH/Regina control module (MFI) pos. 12	(BL-W)   (GN-W)
25	LH/Regina control module (MFI) pos. 34	(VO-W)

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(W-SB) (BN-SB) (BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeaters	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post



C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102 Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin C132 Connector, 8-pin

Left wheel housing harness - Engine harness

C137 Connector, 4-pin

Right wheel housing harness - Engine harness

C139 Connector, at gear selector, 4-pin C143 Connector, at A-post passenger's side, 24-pin C144 Connector, at A-post driver's side, 24-pin C149 Connector, at B-post passenger's side, 11-pin C150 Connector, at B-post driver's side, 11-pin C154 Connector, 3-pin or 1-pin

Right wheel housing harness - engine cooling fan harness

C155 Connector, left A-post, 8-pin C156 Connector, at firewall, 3-pin C157 Connector, at el. dist. unit, 4-pin C158 Connector, at driver's seat, 4-pin C160 Connector, at instrument panel, 6-pin C161 Connector, at firewall, 1-pin C162 Connector, left B-post, 2-pin C163 Connector, at firewall, 2-pin (diesel) C166 Connector, at el. dist. unit, 8-pin C300 Connector, at firewall, 4-pin

(for heated oxygen sensor (HO2S))



C301 Connector, at instrument panel for vanity mirror, passenger's side C302 Connector, at instrument panel for vanity mirror, driver's side D1

Connector, at instrument panel, 4-pin

D2 Connector, alarm, 8-pin at steering column

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)

D7 Connector, ambient temperature sensor, 6-pin

Components C/1 - D7

No. Component Name

C1 Connector, 53-pin

Instrument panel harness - Door sill harness

C2 Connector, 53-pin

Instrument panel harness - Left wheel housing harness

C3 Connector, 53-pin





2/36 Headlight flasher  
2/37 Headlight relay  
2/38 Timer relay, exhaust gas recirculation (EGR)  
2/45 Relay, P-shift lock  
2/50 Bypass relay, high beam  
3/1 Ignition lock  
3/2 Light switch  
3/4 Cruise control operation  
3/5 Switch, turn signal/high-low beam  
3/6 Switch, hazard warning flashers  
3/7 Foglight switch  
3/8-1 Switch, heated rear window  
3/8-2 Switch with timer relay, heated rear window/door mirrors  
3/9 Brake light switch  
3/10 Backup (reversing) light switch  
3/12 Switch, windshield wash/wipe  
3/13 Switch, tailgate wash/wipe  
3/14 Switch, lock button  
3/15 Power window switch, driver's door for driver's door  
3/16 Power window switch, driver's door for driver's side rear door  
3/17 Power window switch, driver's door for passenger's side front  
3/18 Power window switch, driver's door for passenger's side rear  
3/19 Power window switch, driver's side rear  
3/20 Power window switch, passenger's side front  
3/21 Power window switch, passenger's side rear  
3/22 Switch for rear power window lifts  
3/23 Switch for power door mirror, driver's side  
3/24 Switch for power door mirror, passenger's side  
3/25 Switch for power sunroof  
3/26 Operating module, driver's seat  
3/27 Operating module, passenger's seat

3/28 Switch for heated driver's seat

3/29 Switch for heated passenger's seat

3/31 Door switch, driver's door

3/32 Door switch, passenger's side front

3/33 Door switch, driver's side rear

3/34 Door switch, passenger's side rear

3/35 Door switch, tailgate (5-door estate)

3/36 Switch, glove compartment

3/37 Horn contacts

3/38 Switch, brake pedal

3/39 Switch, clutch pedal

3/40 Start inhibit switch, automatic transmission

3/42-1 Switch on transmission 3/42-2 Oil pressure sensor, kick-down valve 3/43  
Switch in gear lever

3/44 Seat belt lock, driver's seat

3/47 Parking brake switch

3/50 Throttle position (TP) switch

3/52 Switch for power antenna

3/59 Beam width control

3/66 heostat setting

3/78 Idle air control (IAC) control, EGR

3/70 Lock unit, tailgate

4/1 Overheating protector, driver's seat

4/2 Overheating protector, passenger's seat

4/3 Control module, cruise control

4/4 Rheostat

4/5 Safety circuit, SRS (airbag)

4/6 Control module, ECC

4/9 Sensor module, SRS (airbag)

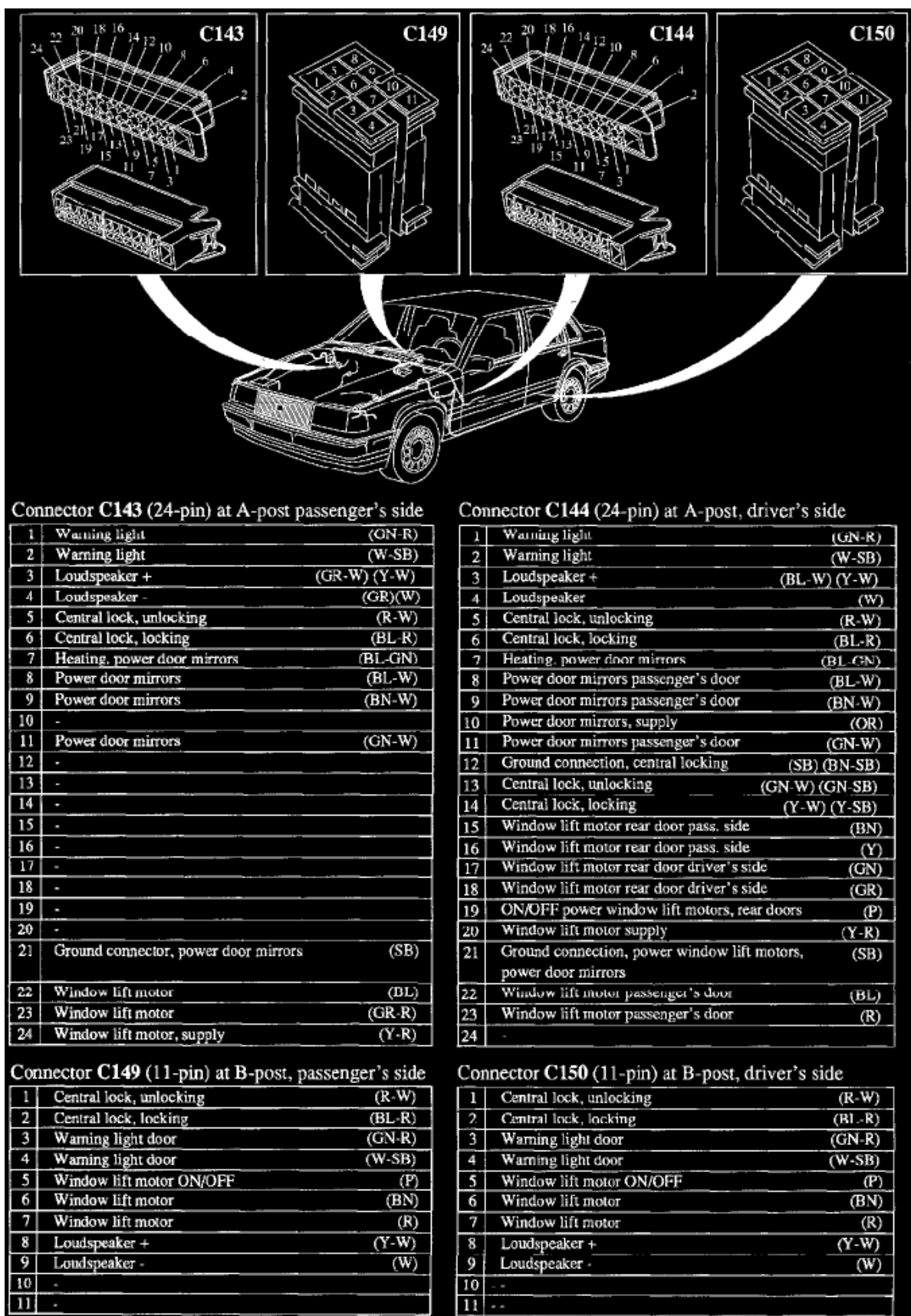
4/10 Control module EZ-K (DI) system

4/15 Power amplifier, EZ-K (DI) system

4/16 Control module ABS

4/23 ontrol module LH-jetronic 2.4 (MFI) system

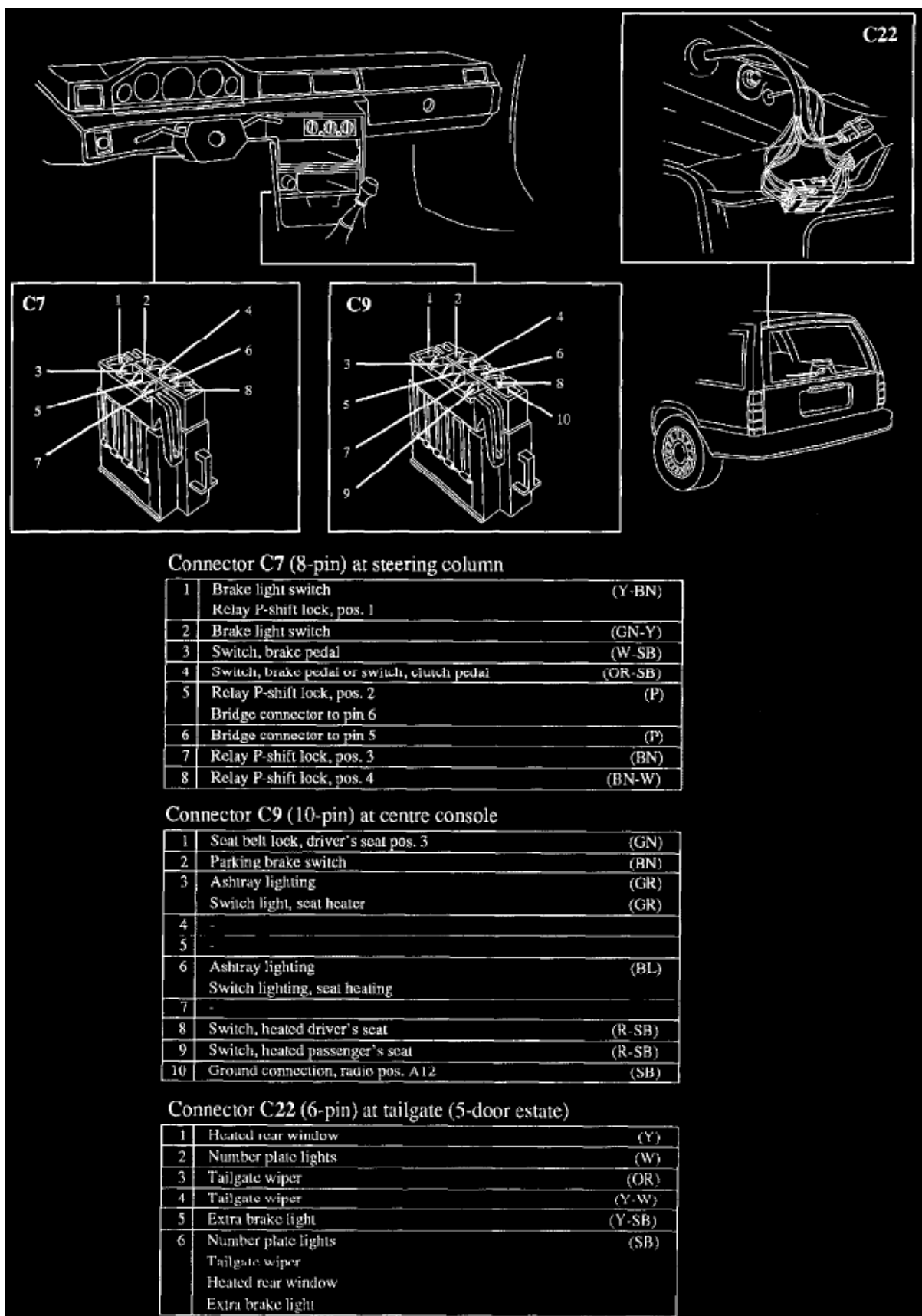




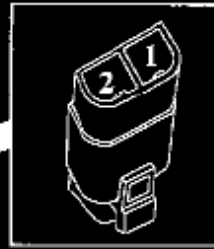
Connectors For Doors







Connectors



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

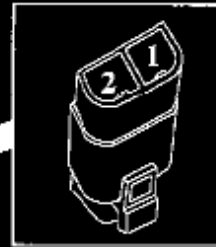
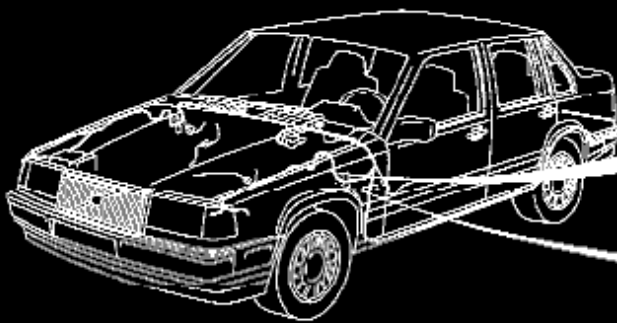
1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	



### B 230 F, REX-I

### D24/D24TIC

#### Connector C50 (8-pin)

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

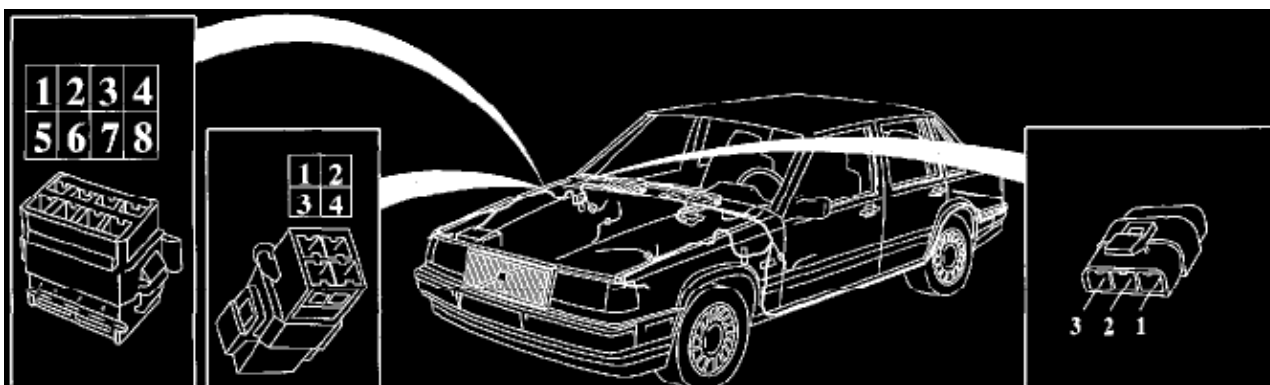
#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

#### Connector C117 (2-pin)

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)







20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor

Components 31/1 - 31/64

No. Component Name

31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

Wire Color Code Identification

SB = Black

GR = Grey

W = White

R = Red

BN = Brown

Y = Yellow

P = Pink

BL = Blue

GN = Green

OR = Orange

VO = Violet

Y-GR = Yellow-Grey





10/68 Left high beam  
10/69 Left extra high beam  
10/70 Left low beam  
10/72 Ashtray lighting, front  
10/74 Indicator light, exhaust gas temperature  
10/75 Indicator light, charge pressure, turbodiesel  
10/76 Indicator light, diesel preheating  
10/77 Indicator light, SRS (airbag)  
10/78 Indicator light, seat belt  
10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
10/80 Indicator light, overdrive (man.)  
10/82 indicator light, ABS  
10/83 Indicator light, parking brake  
10/84 Indicator light, brake warning  
10/85 Indicator light, high beam  
10/86 Indicator light, oil pressure  
10/87 Indicator light, charge  
10/88 Indicator light, bulb failure  
10/89 Indicator light, rear foglights  
10/90 Indicator light, washer fluid level  
10/91 Service indicator  
10/92 Indicator light, trailer  
10/93 Indicator light, malfunction indicator lamp (MIL)  
10/94 Indicator light, right turn signal  
10/95 Indicator light, left turn signal  
10/96 Instrument lighting  
10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side 11/1-26 Fuses 11/41  
Fuse, combined instrument  
15/1 Positive terminal  
15/2 30-rail in el. distribution unit  
15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil

20/2 Distributor

20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor







4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front

6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

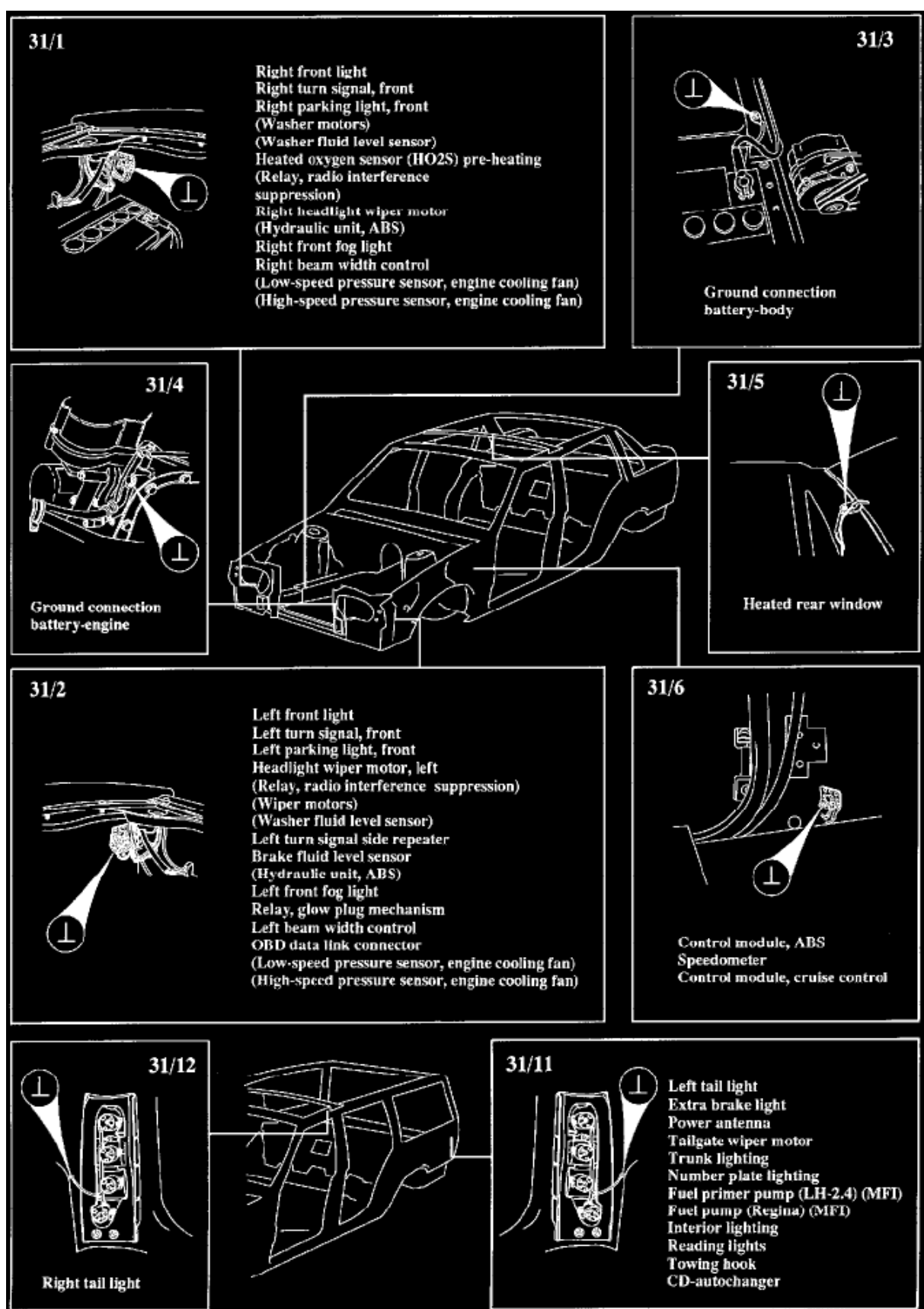
7/34 Thermoelement, three-way catalytic converter (TWC)

7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan





Ground Connections







Wiring Diagram

Component I.D. List

Fuse no. Function



7/52 Temperature sensor, intake air

7/53 Low-pressure sensor, A/C

7/69 Ambient temperature sensor

7/75 Bulb malfunction indicator

8/1 Operating solenoid, overdrive

8/2 Solenoids, ECC

8/3 Solenoid coupling, A/C

8/5 Idle air control (IAC) valve

8/6-9 Injection valves

8/13 Fuel valve, diesel

8/15 Hydraulic unit, ABS

8/17 Converter, EGR

8/24 3-way valve, EGR

8/30 Steering wheel module, SRS (airbag)

8/33 Igniter for left seat belt tensioner

8/34 Igniter for right seat belt tensioner

8/36 Solenoid P-shift lock

8/42 Solenoid, pulsed secondary air injection (PAIR)

9/1 Cigar lighter

9/2 Heated rear window

9/3 Heater element, driver's seat backrest

9/4 Heater element, passenger's seat backrest

9/5 Heater element, driver's seat cushion

9/6 Heater element, passenger's seat cushion

Components 10/5 - 10/115

No. Component Name

10/5 Left front foglight

10/6 Right front foglight

10/11 Left front parking light

10/12 Right front parking light

10/13 Left front turn signal

10/14 Right front turn signal

10/15 Left turn signal repeater (not USA/CDN)

10/16 Right turn signal repeater (not USA/CDN)

10/19 Extra brake light

10/20 Left number plate light

10/21 Right number plate light

10/22 Roof light

10/24 Trunk light

10/25 Roof light, load area (5-door)

10/29 Glove compartment light

10/30 Door-open warning light, driver's door

10/31 Door-open warning light, front passenger's side

10/32 Door-open warning light, rear driver's side

10/33 Door-open warning light, rear passenger's side

10/36 Control panel lighting

10/38 Ashtray lighting, rear

10/39 Switch lighting, seat heater

10/40 Gear selector lighting

10/43 Right brake light

10/44 Right parking light, rear

10/45 Right parking/tail light

10/46 Right rear foglight

10/47 Bulb, right rear turn signal

10/48 Right backup (reversing) light

10/50 Left brake light

10/51 Left parking light, rear

10/52 Left parking/tail light

10/53 Left rear foglight

10/54 Bulb, left rear turn signal

10/55 Left backup (reversing) light

10/64 Right high beam

10/65 Right extra high beam





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

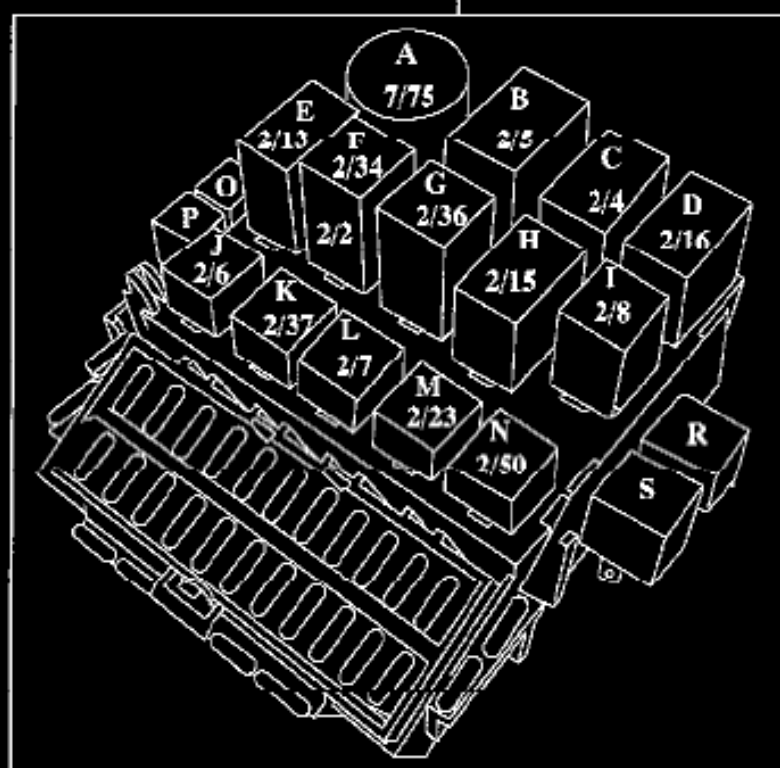
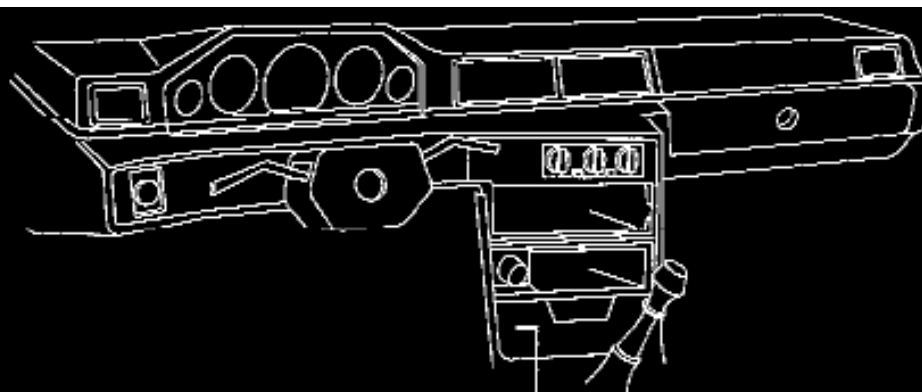
1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)







Relays in electrical distribution unit

- |   |  |   |   |
|---|--|---|---|
| A | Bulb failure warning sensor (7/75)                           | J | Overload relay 15I (2/6)<br>(power windows/seat heater) |
| B | Seat belt reminder/key warning (2/5)<br>(USA, Canada, Korea) | K | Headlight (2/37)  |
| C | Windshield wiper intermittent relay (2/4)                    | L | Central lock (2/7)                                      |
| D | Tailgate wiper intermittent relay (2/16)                     | M | Fuel pump relay (2/23)                                  |
| E | Fuel injection (2/13)  | N | Overload relay high beam (2/50)<br>(not USA, Canada)    |
| F | Foglights, front (2/34 or 2/2 USA, Canada)                   | O | -   |
| G | Headlight flasher (2/36)                                     | P | -   |
| H | Exhaust temp. sensor (2/15) (Japan)                          | R | -   |
| I | Overdrive (2/8)  | S | -   |

Relay, front foglights (USA/CDN)

20 Right low beam

Beam width control

21 Left parking lights, front and rear

Number plate lights

Instrument and control panel lights

Ambient temperature sensor

22 Relay, front foglights (Europe)

Right parking lights, front and rear

Ashtray light, rear

Automatic transmission selector illumination

Lighting, switches and storage compartment in centre console

23 Heated front seats

24 ABS

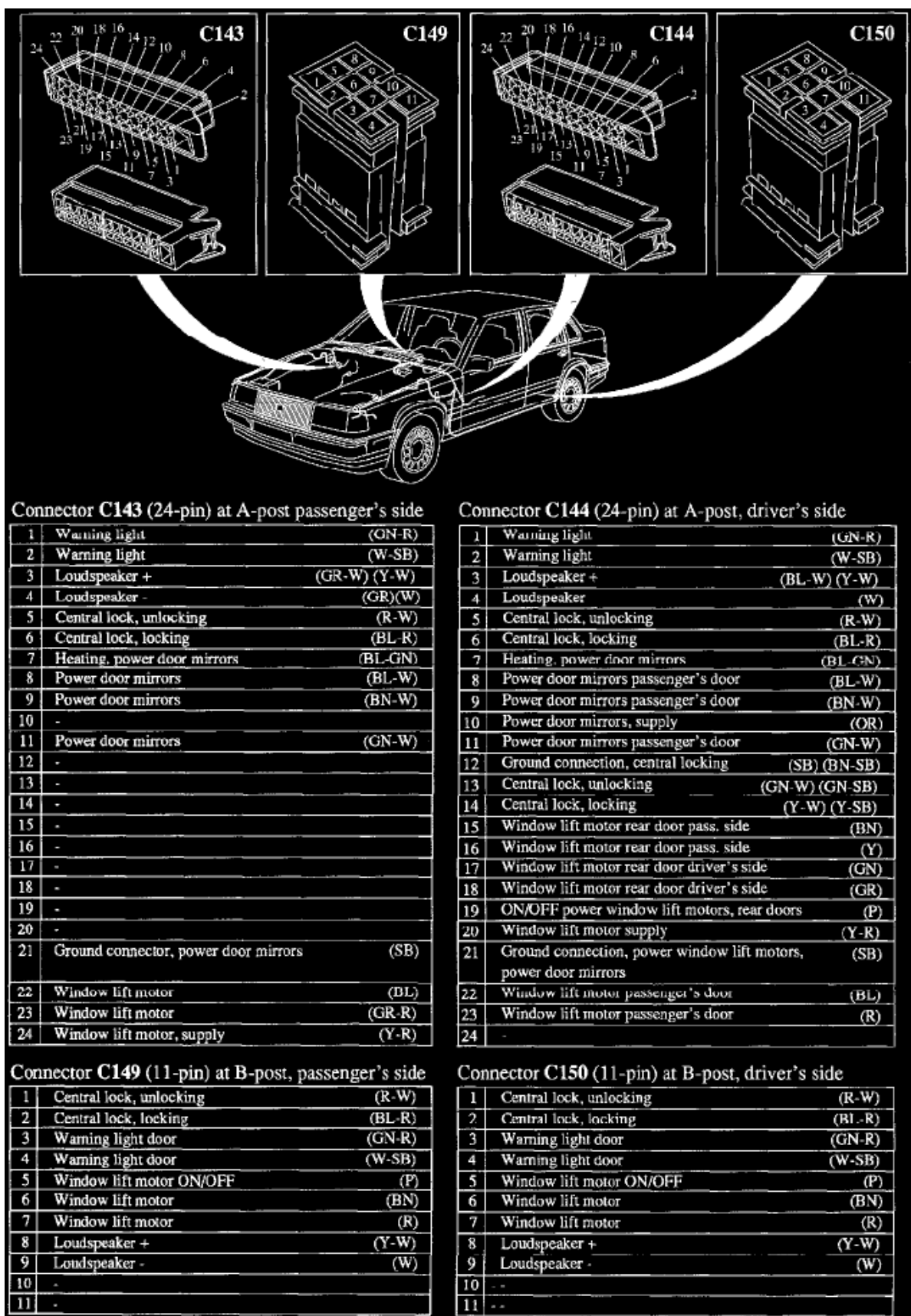
25 Rear foglights (USA, Canada, Japan)

Disconnectable low beam (Nordic market, Netherlands, Belgium)

26 Amplifier, radio

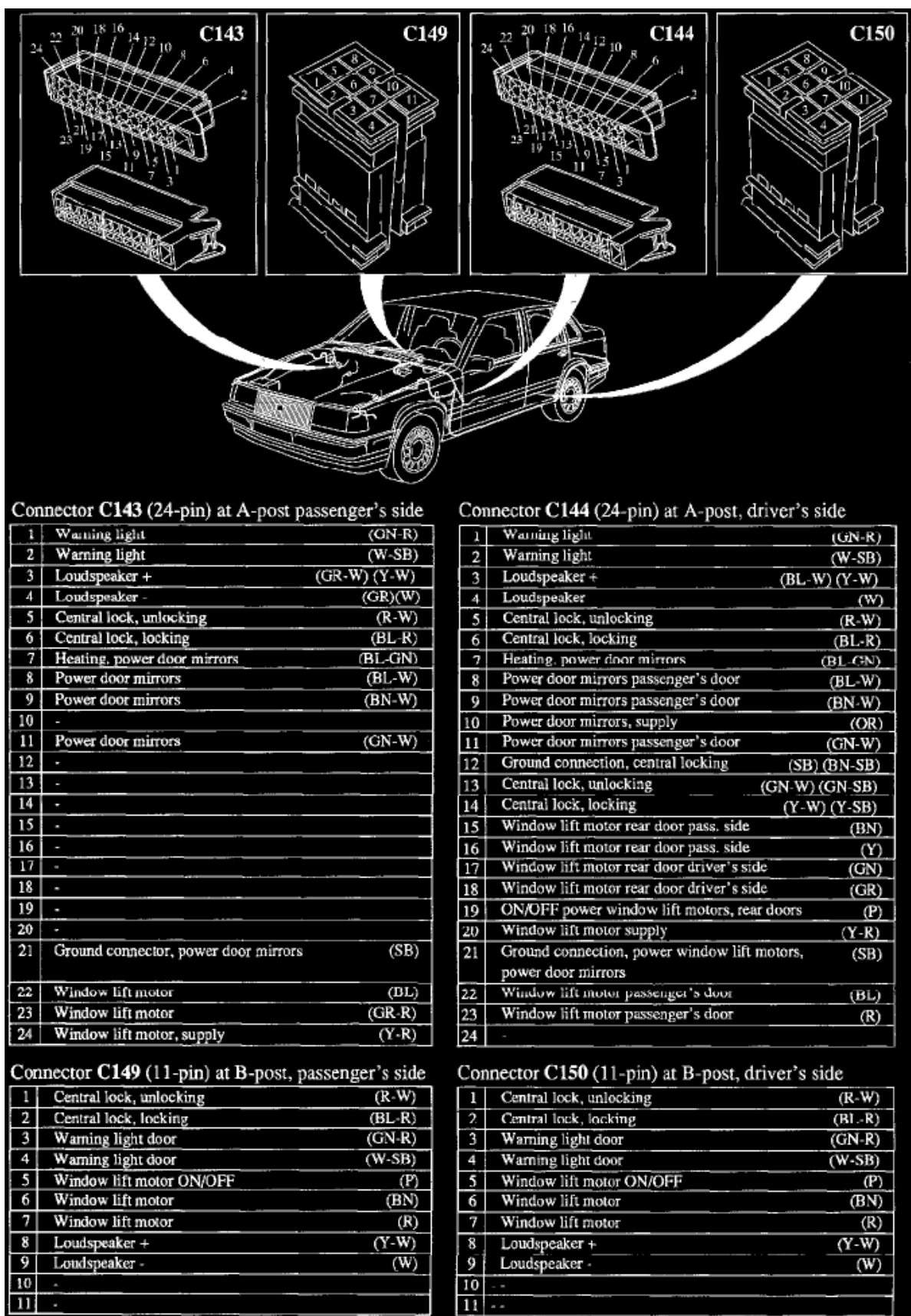
Relays In Electrical Distribution Unit





Connectors For Doors

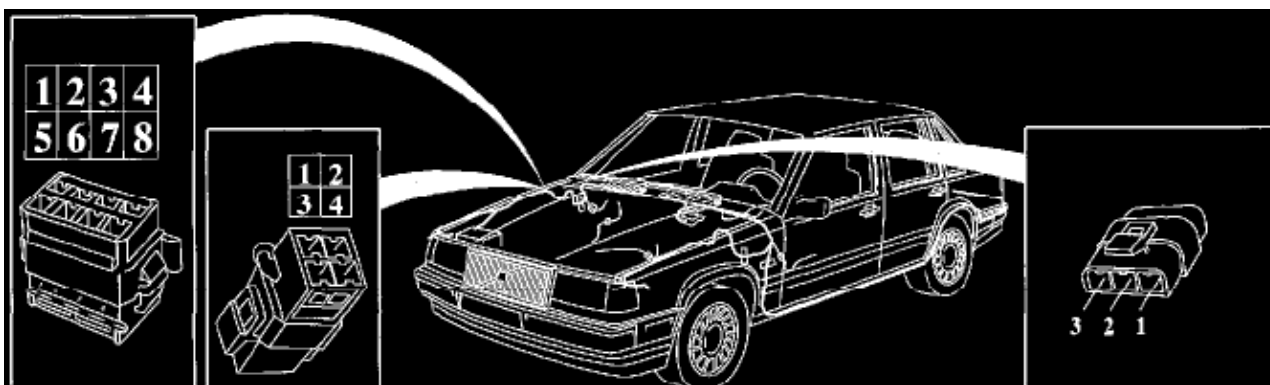




Connectors For Doors







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

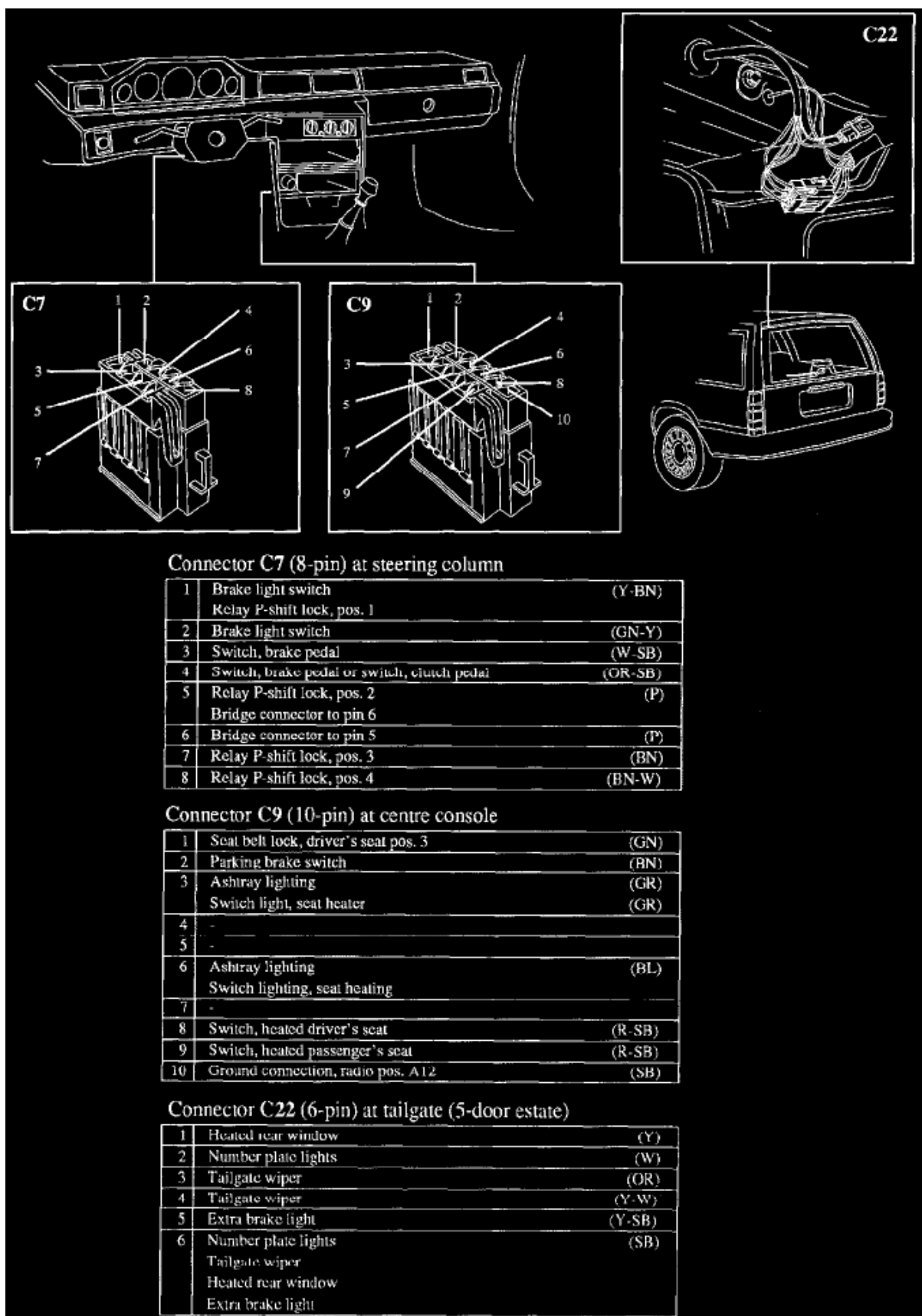
#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

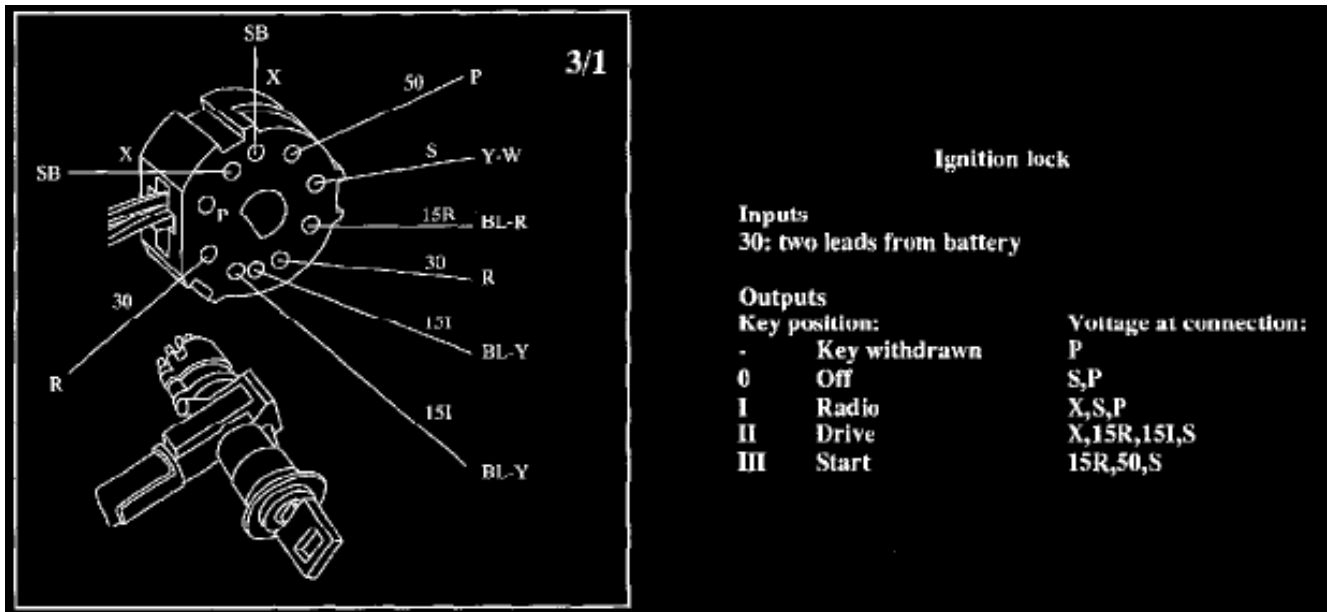
#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





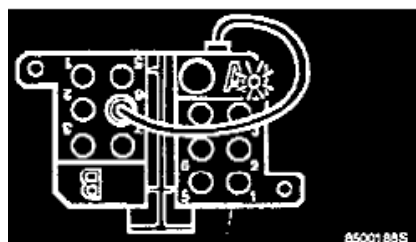
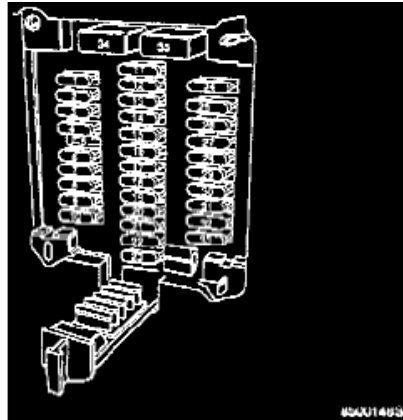
Connectors



Connector, Ignition Lock

Fuse Rating / Circuit Assignment - Electrical Distribution Unit





- Remove circuit breaker 35. Fusebox is located at left-hand end of dashboard.

#### D4

Ignition must be off for at least 5 seconds before performing this step.

- Press and hold any button on control panel of seat to be tested while switching ignition on. Keep button depressed for at least 1 second after turning on ignition.

#### D5

- Reinstall circuit breaker 35.

Diagnostic system must now be activated within one minute, i.e., test button must be pressed once to select DTM 1 (self-diagnostics) or four times to select DTM 4 (calibration).

- Control module will exit diagnostic function after approx. 1 minute if no activity takes place between module and DLC. Module will also exit diagnostic function if ignition is switched off for at least 5 seconds. Seat cannot be operated either with control buttons or memory buttons while using diagnostic system.

Codes for DTM 1 are listed and explained in the table on page 9 of the SM; use of DTM 4 (calibration) is described on SM page 7.

#### Method For Version 5 (E)

Applies to: 940/960 from 1994 on

Unlike later 1993 variants, fault tracing or calibration of power seats in the above models can be carried out without removing the fuses.

Note:

The seat can be operated with the ignition switched off.

#### E1

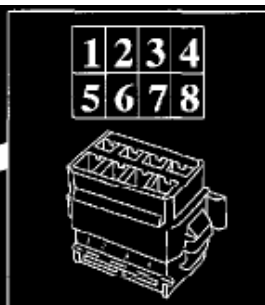
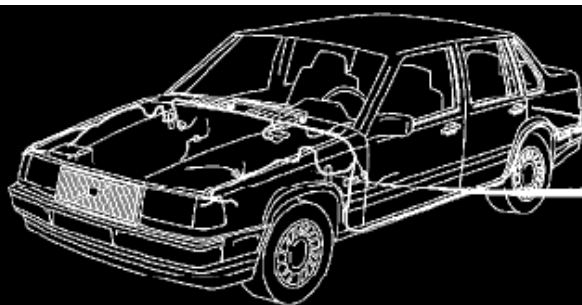
- Switch off ignition.

#### E2

- Manual fault tracing/calibration: Connect test lead from DLC A to socket No. 6 on DLC B.
- Fault tracing/calibration using VST with OBD System Memory Cassette: Connect instrument to DLC B.







### B200F/G, B230F/FB/FD/G-EZK

### B200FT, B230FT/GT

#### Connector C50 (8-pin)

#### Connector C50 (8-pin)

1	-	Injector 1	(GN)
2	Pos. 1, connector C137 at right suspension tower (4-pin) (BL-GN)	Injector 2	(GN)
3	Pos. 2, connector C137 at right suspension tower (4-pin) (BL-R)	Injector 3	(GN)
4	Pos. 3, connector C137 at right suspension tower (4-pin) (BL-W)	Injector 4	(GN)
5	Pos. 4, connector C137 at right suspension tower (4-pin) (BL-Y)	-	
6	Pos. 3, connector C55 at right suspension tower (4 pin) (Y-W)		
7	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	Control module LH (MFI) pos. 25 via pos. 2, connector C55 at right suspension tower (Y)	
8	-	-	

#### Connector C51 (8-pin)

#### Connector C51 (8-pin)

1	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	Engine coolant temperature (ECT) sensor pos. 1 (Y-W)	
2	Oil pressure sensor (SB)	Oil pressure sensor (SB)	
3	Ground, control module EZK pos. 20 (BN) (BN-SB)	Ground, ICM pos. 20 (BN)	
4	Generator D+ (R)	Generator D+ (R)	
5	Starter motor 50 (BL-GN)	Starter motor 50 (BL-GN)	
6	Throttle position (TP) switch pos. 1 (OR)	Throttle position (TP) switch pos. 1 (OR)	
7	Pos. 8, connector C54 at right suspension tower	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) pos. 2 (R-SB)	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2 (R-SB)	
8	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	Engine coolant temperature (ECT) sensor pos. 2 (Y-SB)	

#### Connector C132 (8-pin)

#### Connector C132 (8-pin)

1	Ignition coil 1 (R-W)	Ignition coil 1 (R-W)	
2	All: Ground, power amplifier EZK (DI) (SB) B230FD and B230FT California: Ground, control module EZK (DI) pos. 14	All: Ground, power amplifier EZK (DI) (SB) California: Ground, ICM pos. 14	
3	B230FD and B230FT California: Temp. sensor, EGR pos. 1 (Y-SB)	Temperature sensor EGR pos. 1 (California) (Y-SB)	
4	Mass air flow (MAF) sensor pos. 1 (BN)	Ignition coil 15 (BL)	
5	Knock sensor (KS) pos. 1 (GN)	Knock sensor (KS) pos. 1 (GN)	
6	Knock sensor (KS) pos. 2 (SB)	Knock sensor (KS) pos. 2 (SB)	
7	Control module LH (MFI) pos. 31 via pos. 4, connector C55 at right suspension tower (B230FD) (Y-R)	-	

Connector In Engine Compartment



**B 230 F, REX-I**

**D24/D24TIC**

**Connector C50 (8-pin)**

1	Pos. 2, connector C137 at right suspension tower (4-pin)	(BL-R)
2	Ground, control module REX-I (DI), pos. 20	(BN)
	Ground, power amplifier/ignition coil REX-I (DI), pos. A	
3	Pos. 3, connector C137 at right suspension tower (4-pin)	(BL-SB)
4	Pos. 4, connector C137 at right suspension tower (4-pin)	(GN)
5	Control module Regina (MFI) pos. 25, via pos. 2, connector C55 at right suspension tower	(Y)
6	Knock sensor (KS) pos. 1	(GN)
7	Knock sensor (KS) pos. 2	(SB)
8	Pos. 1, connector C137 at right suspension tower (4-pin)	(BN-SB)

**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
3	Ground, power amplifier/ignition coil REX-I pos. B	(SB)
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Throttle position (TP) switch pos. 1	(OR)
	Pos. 8, connector C54 at right suspension tower	
7	Engine coolant temperature (ECT) sensor fuel/ignition (MFI/DI) system pos. 2	(R-SB)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

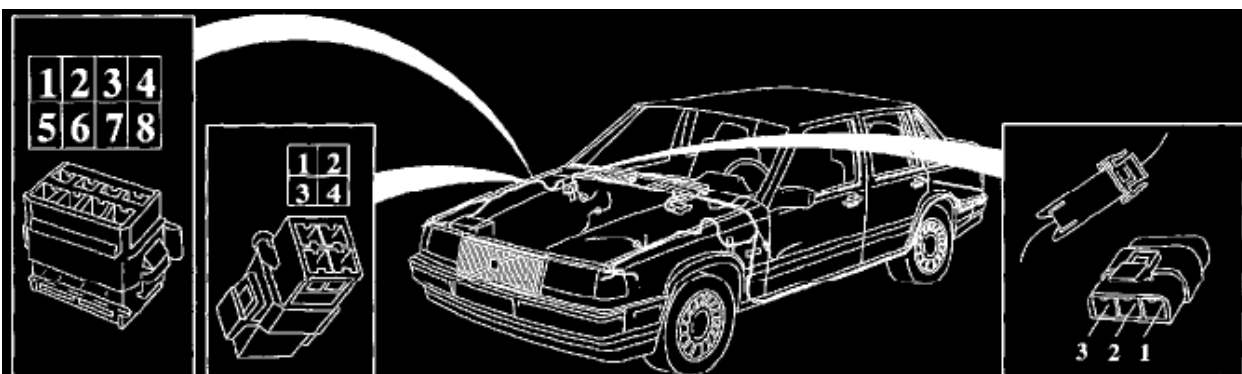
**Connector C51 (8-pin)**

1	Engine coolant temperature (ECT) sensor pos. 1	(Y-W)
2	Oil pressure sensor	(SB)
	Fuel valve	
3	Timer relay, exhaust gas recirculation (EGR) pos. 4	(RI)
	Idle air control (IAC) switch, EGR	
4	Generator D+	(R)
5	Starter motor 50	(BL-GN)
6	Engine coolant temperature (ECT) sensor diesel	(BN)
7	Generator W	(R-W)
8	Engine coolant temperature (ECT) sensor pos. 2	(Y-SB)

**Connector C117 (2-pin)**

1	Pressure sensor, turbodiesel (D24TIC)	(Y-R)
2	-	





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

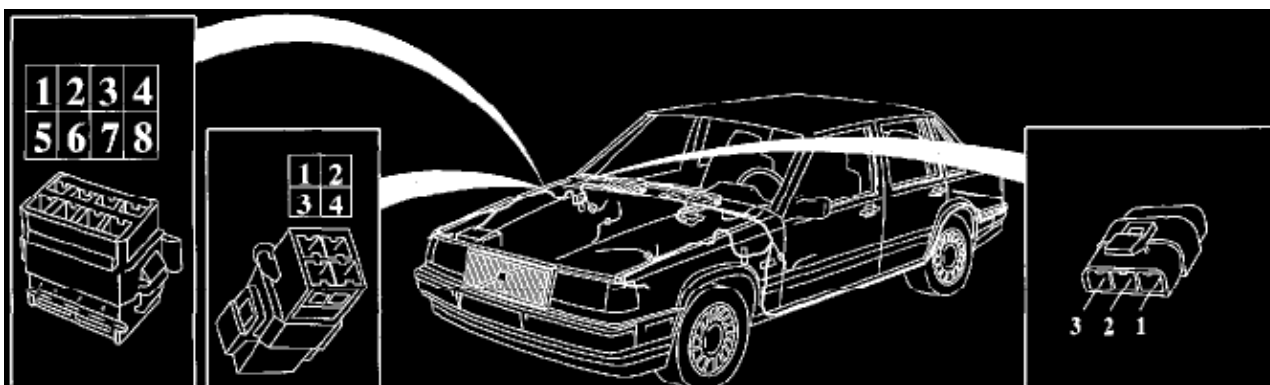
#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
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#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)







20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor

Components 31/1 - 31/64

No. Component Name

31/1 Ground connector right front wing

31/2 Ground connector left front wing

31/3 Ground connector body (ground connection, battery-body)

31/4 Ground connector engine (ground connection, battery-engine)

31/5 Ground connector for heated rear window (4-door)

31/6 Ground connector left A-post

31/9 Ground connector at parking brake lever

31/10 Ground connector right A-post

31/11 Ground connector left tail light

31/12 Ground connector right tail light

31/13 Ground connector in load area

31/16 Ground connector at windshield wiper motor

31/17 Ground connector at power sunroof motor

31/26 Ground connector, generator

31/28 Ground connector at overdrive solenoid

31/31 Ground connection rail in el. distribution unit

31/32 Ground connector on engine (power ground)

31/33 Ground connector on engine (signal ground)

31/60 Ground connector on engine (diesel)

31/63 Ground connector at steering column bracket

31/64 Ground connector engine cooling fan

Wire Color Code Identification

SB = Black

GR = Grey

W = White

R = Red

BN = Brown

Y = Yellow

P = Pink

BL = Blue

GN = Green

OR = Orange

VO = Violet

Y-GR = Yellow-Grey



Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness

#### D24/D24TTC

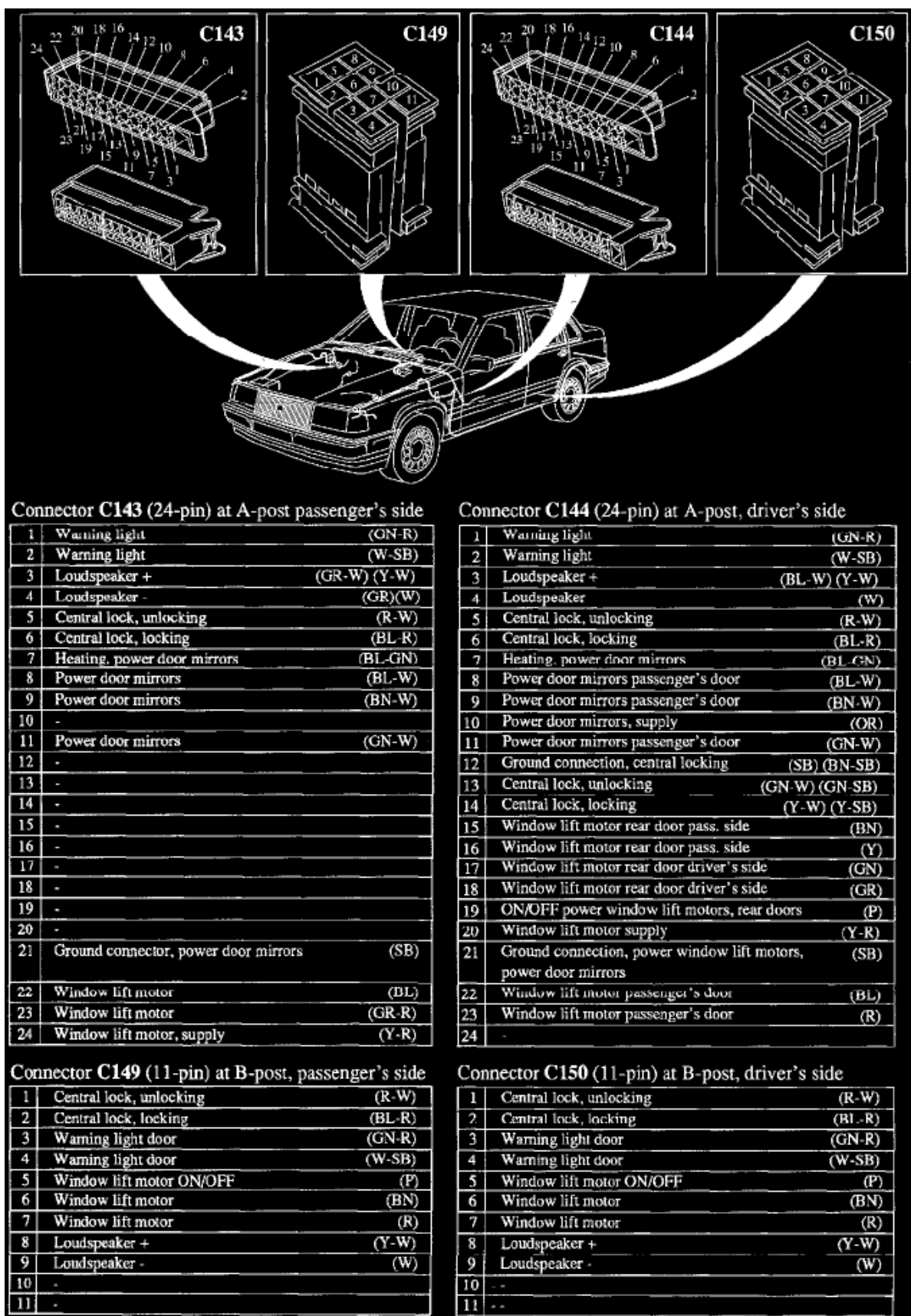
1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	Washer motor, tailgate	(BL-Y)
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	Front foglights	(W-SB)
14	-	
15	Headlight wiper motor	(Y)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor	(BL-R)
	Washer motor	
18	-	
19	-	
20	-	
21	-	
22	-	
23	-	
24	Washer fluid level sensor	(BL-W)
25	-	

Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - door sill harness

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeater	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post





Connectors For Doors







10/68 Left high beam  
 10/69 Left extra high beam  
 10/70 Left low beam  
 10/72 Ashtray lighting, front  
 10/74 Indicator light, exhaust gas temperature  
 10/75 Indicator light, charge pressure, turbodiesel  
 10/76 Indicator light, diesel preheating  
 10/77 Indicator light, SRS (airbag)  
 10/78 Indicator light, seat belt  
 10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
 10/80 Indicator light, overdrive (man.)  
 10/82 indicator light, ABS  
 10/83 Indicator light, parking brake  
 10/84 Indicator light, brake warning  
 10/85 Indicator light, high beam  
 10/86 Indicator light, oil pressure  
 10/87 Indicator light, charge  
 10/88 Indicator light, bulb failure  
 10/89 Indicator light, rear foglights  
 10/90 Indicator light, washer fluid level  
 10/91 Service indicator  
 10/92 Indicator light, trailer  
 10/93 Indicator light, malfunction indicator lamp (MIL)  
 10/94 Indicator light, right turn signal  
 10/95 Indicator light, left turn signal  
 10/96 Instrument lighting  
 10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side

Components 11/1 - 20/18

No. Component Name

11/1-26 Fuses 11/41

Fuse, combined instrument

15/1 Positive terminal

15/2 30-rail in el. distribution unit

15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

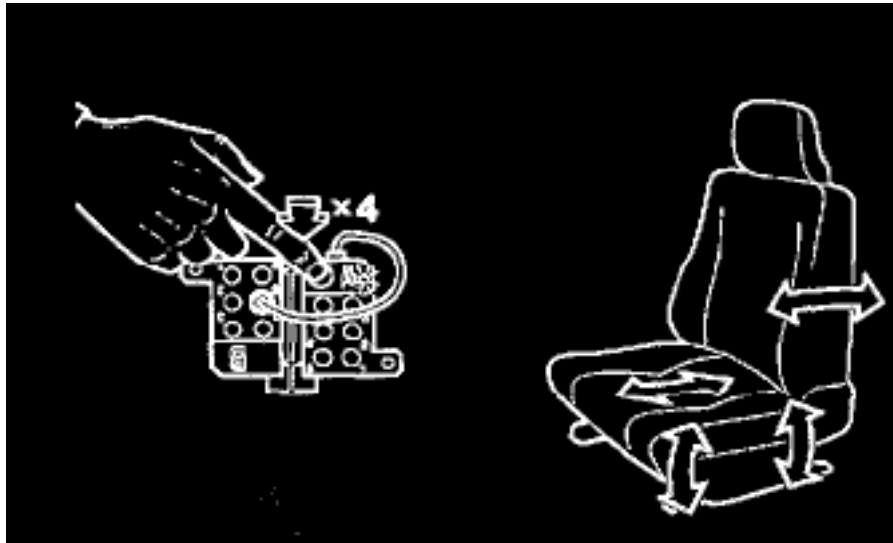
19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil



Check

- Calibrate seat.
- Check function.



Connector C3 (pos. 1-25 in 53-pin)  
Instrument panel harness - right wheel  
housing harness

#### D24/D24TTC

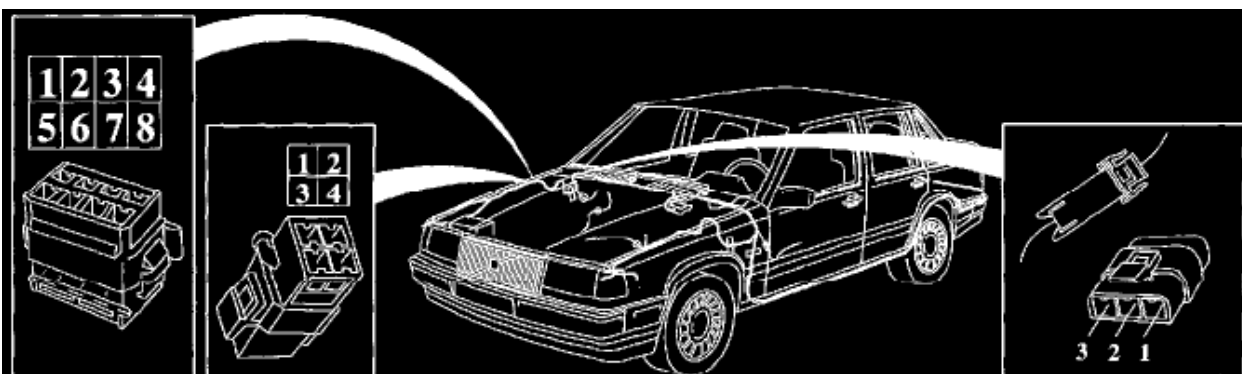
1	High beam, right	(R-W)
2	Low beam, right	(GN-W)
	Beam width control (Germany)	(GN-BN)
3	Turn signal, right	(BL-GN)
4	Parking light, right	(GR)
5	Washer motor, tailgate	(BL-Y)
6	-	
7	-	
8	-	
9	-	
10	-	
11	-	
12	-	
13	Front foglights	(W-SB)
14	-	
15	Headlight wiper motor	(Y)
16	Beam width control (Germany)	(GR)
17	Headlight wiper motor	(BL-R)
	Washer motor	
18	-	
19	-	
20	-	
21	-	
22	-	
23	-	
24	Washer fluid level sensor	(BL-W)
25	-	

Connector C3 (pos. 26-53 in 53-pin)  
Instrument panel harness - door sill harness

26	-	
27	-	
28	-	
29	Door-open warning light, right rear	(GN-R)
30	Door switch, front and rear doors	(BL-SB)
31	Door switch, front door	(W-SB)
32	Side turn signal repeater	(BL-GN)
33	-	
34	-	
35	Loudspeaker, right rear door +	(Y-W)
36	Loudspeaker, right rear door -	(W)
37	-	
38	Central locking, rear door	(R-W)
39	-	
40	-	
41	Central locking, rear door	(BL-R)
42	-	
43	-	
44	-	
45	-	
46	-	
47	-	
48	-	
49	-	
50	Power window lift motor, rear door	(GN)
51	Power window lift motor, rear door	(GR)
52	-	
53	Power window lift motor, rear door ON/OFF	(P)

Connector At Right A-post





### B230F, REX-I (DI)

### B200FT, B230FT/GT

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 3	(R-SB)
2	Solenoid coupling, A/C	(GN-R)
3	-	
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, Regina (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temp. (ECT) sensor fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control module	(SB)
7	Throttle position (TP) switch pos. 3 from high-output system (accessory)	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

1	-	
2	Control module REX-I (DI) pos. 8 via pos. 5, connector C50 at left suspension tower	(Y)
3	-	
4	-	
5	Ground, Regina (MFI) control module	(SB)
6	Injectors IAC pos. 1 via splice	(GN-R) (GN)
7	Injectors	(GR)
8	Ground, Regina (MFI) control module	(BN)

#### Connector C55 (8-pin)

1	-	
2	ICM pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	High-power system (accessory) from LH (MFI) control module pos. 28	(GR-R)
4	-	
5	Ground, mass air flow (MAF) sensor	(BN)
6	-	
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Pressure sensor, intake manifold, air temp. sensor via pos. 8, connector C50 at left suspension tower	(BN-SB)
2	Pressure sensor, intake manifold via pos. 1, connector C50 at left suspension tower	(BL-R)
3	Pressure sensor, intake manifold via pos. 3, connector C50 at left suspension tower	(BL-SB)
4	Air temp. sensor via pos. 4, connector C50 at left suspension tower	(GN)

#### Connector C154 (1-pin)

1	High-pressure sensor A/C pos. 2	(GN-R)
---	---------------------------------	--------

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor A/C pos. 2	(GN-R)

## **Diagram Information and Instructions**



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 138.

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

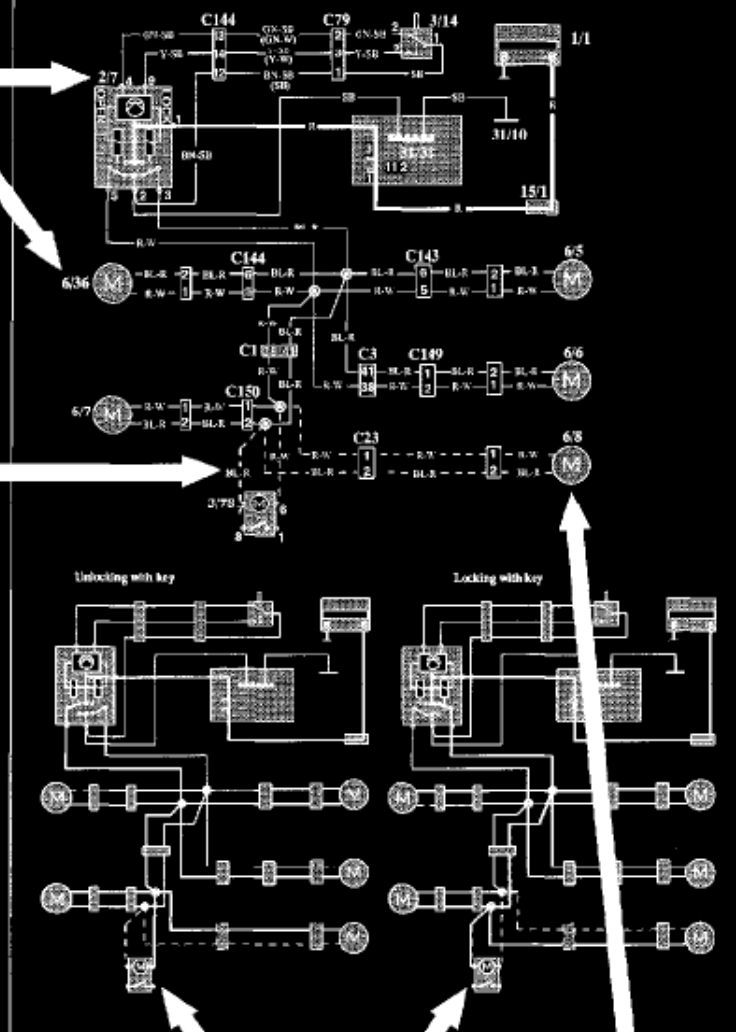
Each component has a component designation.  
At the end of the manual there is a component  
list where you can see what each component  
is called.

Wire colours are indicated with letters of the alphabet:

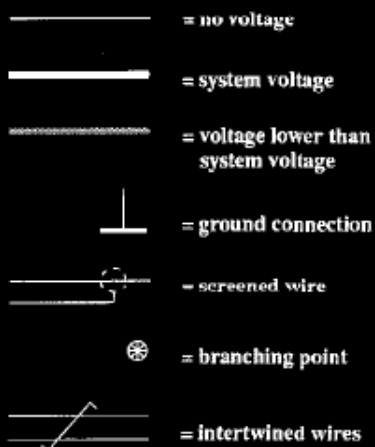
SB = Black	BN = Brown	GN = Green
GR = Grey	Y = Yellow	OR = Orange
W = White	P = Pink	VO = Purple
R = Red	BL = Blue	

BL-R is thus = Blue-red.

### Central locking



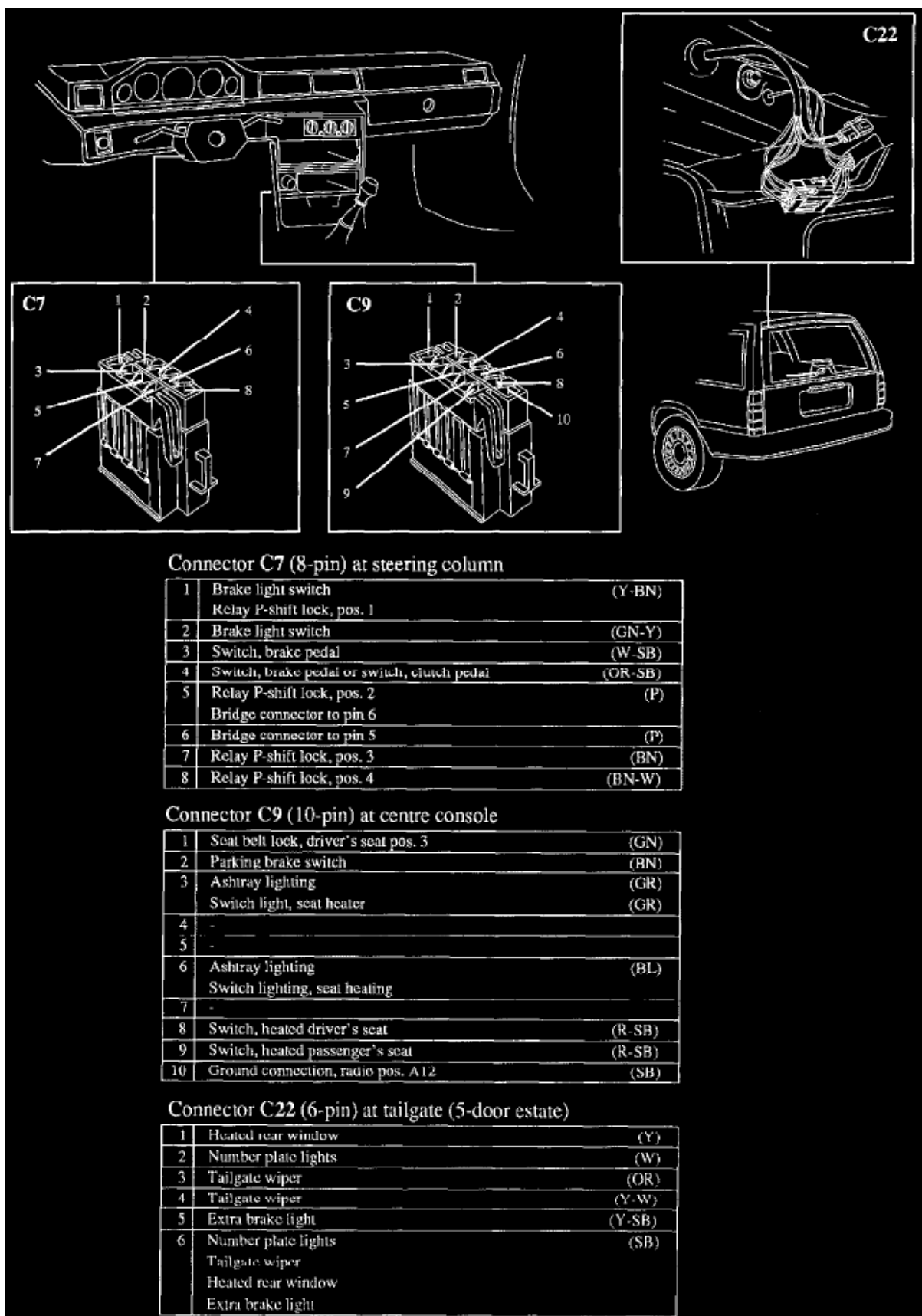
### Code to colours in the wiring diagram



Here you see the voltage under operational conditions.

## Diagram Information





Connectors



Instrument panel harness - Right wheel housing harness

C5 Connector, left A-post, 2-pin

C6 Connector, at el. dist. unit, 4-pin

C7 Connector, at steering column, 8-pin

C9 Connector, at centre console, 10-pin

C11 Connector, at el. dist, unit, 4-pin

C12 Connector, at el. dist, unit, 2-pin

C14 Connector, at el. dist, unit, 2-pin

C15 Connector, left A-post, 4-pin

C19 Connector, at instrument panel, 2-pin

C20 Connector, under gear lever carrier, 1-pin or 2-pin

C21 Connector, left B-post, 4-pin

C22 Connector, at tailgate, 6-pin (5-door)

C23 Connector, at tailgate, 2-pin (5-door)

C24 Connector, at extra brake light, 2-pin

C25 Connector, tailgate, 2-pin, (5-door)

C27 Connector, tailgate, 1-pin, (5-door)

C29 Connector, at driver's seat, 4-pin

C31 Connector, at passenger's seat, 2-pin

C32 Connector, at driver's seat, 2-pin

C33 Connector, under driver's seat, 2-pin

C34 Connector, under passenger's seat, 2-pin

C36 Connector, under passenger's Seat, 2-pin

C37 Connector, under driver's seat, 2-pin

C39 Connector, at driver's seat, 4-pin

C40 Connector, at passenger's seat, 4-pin

C41 Connector, under driver's seat, 6-pin

C42 Connector, under driver's seat, 2-pin

C50 Connector, 8-pin

Left wheel housing harness - Engine harness

C51 Connector, 8-pin

Left wheel housing harness - Engine harness

C54 Connector, 8-pin

Right wheel housing harness - Engine harness

C55 Connector, 8-pin

Right wheel housing harness - Engine harness

C62 Connector, at windshield wiper motor, 4-pin

C63 Connector, at left headlight, 3-pin

C64 Connector, at right headlight, 3-pin

C65 Connector, driver's door, 6-pin

C66 Connector, passenger's door, 6-pin

C72 Connector, driver's door, 2-pin

C73 Connector, passenger's door, 2-pin

C74 Connector, rear door driver's side, 2-pin

C75 Connector, rear door passenger's side, 2-pin

C76 Connector, right A-post, 2-pin

C79 Connector, driver's door, 4-pin

C84 Connector, driver's door, 2-pin

C85 Connector, rear door driver's side, 2-pin

C86 Connector, passenger's door, 2-pin

C87 Connector, rear door passenger's side, 2-pin

C88 Connector, at switch, 5-pin

C89 Connector, at sunroof motor 2-pin

C91 Connector, at el. dist. unit, 2-pin

C92 Connector, behind steering wheel, 2-pin

C93 Connector, left rear wheel housing, 4-pin

C98 Connector, at power antenna, 4-pin

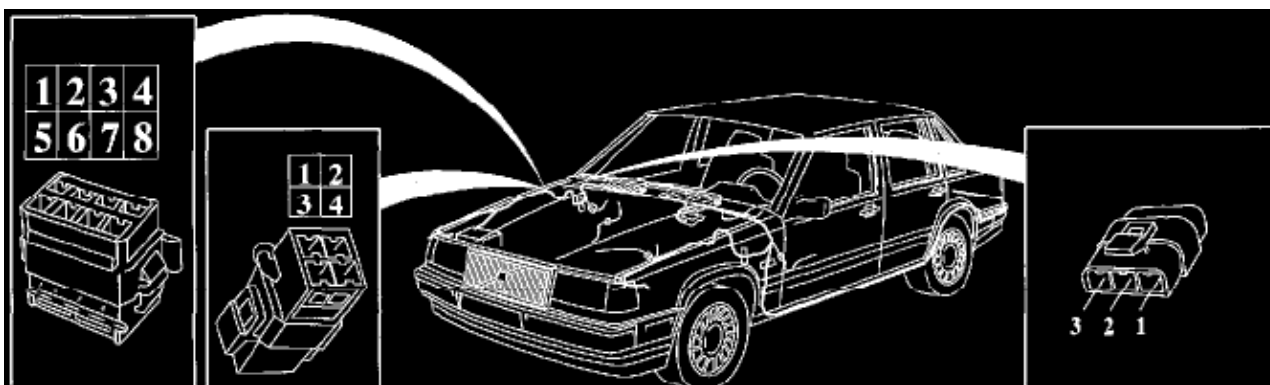
C100 Connector, left wheel housing, 2-pin C101 Connector, right wheel housing, 2-pin C102  
Connector, at el. dist. unit, 2-pin C105 Connector on bridge connector 1, 2-pin C111 Connector, at  
thermoelement, 2-pin C117 Connector, 2-pin

Left wheel housing harness - Engine harness

C121 Coupling reel, steering wheel, SRS (airbag) C123 Connector to bridge connector 2, 2-pin







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





4/26 Power amplifier/ignition coil REX-I (DI) system

4/29 Control module driver's seat

4/40 A/C controls, MCC

4/42 Control module REX-I (DI) system

4/43 Heater controls

5/1 Combined instrument

5/3 Ambient temperature sensor

6/1 Windshield wiper motor

6/2 Washer motor, front

6/3 Right headlight wiper motor

6/4 Left headlight wiper motor

6/5 Central locking motor, passenger's side front

6/6 Central locking motor, passenger's side rear

6/7 Central locking motor, driver's side rear

6/8 Central locking motor, tailgate

6/9 Window lift motor driver's door

6/10 Window lift motor driver's side rear

6/11 Window lift motor passenger's side rear

6/13 Power door mirror, driver's side

6/14 Power door mirror, passenger's side

6/15 Motor, power sunroof

6/16 Motor, driver's seat backrest

6/17 Motor, up-down, front edge of driver's Seat

6/18 Motor, up-down, rear edge of driver's seat

6/19 Motor, fore-aft, driver's Seat

6/24 Vacuum pump, cruise control

6/25 Starter motor

6/26 Generator

6/27 Servo motor, throttle control

6/28 Cabin fan motor

6/29 Engine cooling fan

6/30 Washer motor, tailgate

6/31 Fuel pump

6/32 Tailgate wiper motor

6/33-1 Fuel level sensor/primer pump 6/33-2 Fuel level sensor/pump 6/34

Power antenna

6/35 Parking beater

6/36 Central locking motor, driver's side front

6/38 Actuator, left

6/39 Actuator, right

7/4 Brake fluid level sensor

7/5 Washer fluid level sensor

7/6 Oil pressure sensor

7/7 Engine coolant temperature (ECT) sensor

7/9 Engine coolant temperature (ECT) sensor, ECC

7/10 Cabin temperature sensor

7/11 Ambient temperature sensor

7/12 Solar sensor

7/14 Thermostat, engine cooling fan

7/15 Heated oxygen sensor (HO2S)

7/16 Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system

7/17 Mass air flow (MAF) sensor

7/24 Knock sensor (KS)

7/25 Engine speed (RPM) sensor

7/26 Pressure sensor, EGR

7/28 Engine coolant temperature (ECT) sensor, diesel

7/30 Pressure sensor for charge pressure, turbodiesel

7/31 Sensor, ABS left front

7/32 Sensor, ABS right front

7/33 Sensor, vehicle speed (VSS) and ABS

7/34 Thermoelement, three-way catalytic converter (TWC)

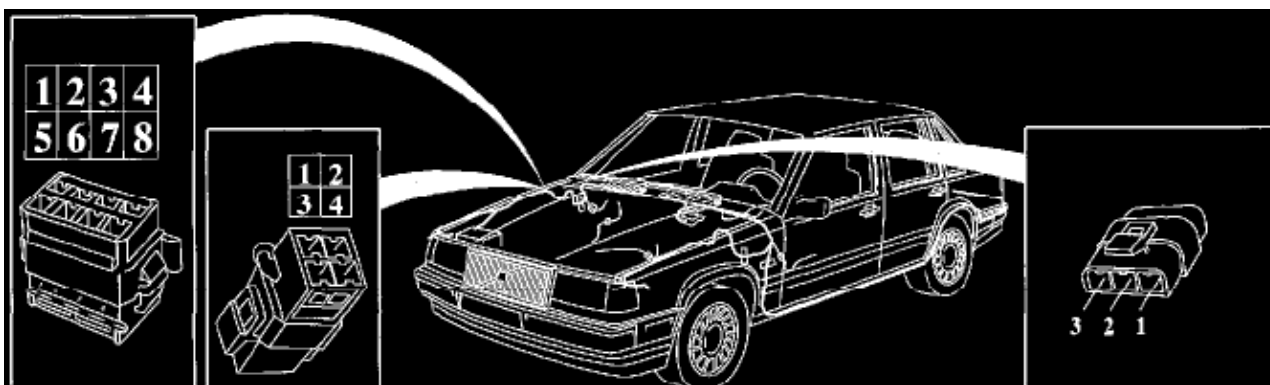
7/37 Temperature sensor, EGR

7/38 Low-speed pressure tensor, engine cooling fan

7/40 High-speed pressure sensor, engine cooling fan







### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1 Pos. 6, connector C51 at left suspension tower	(OR)

#### Connector C55 (8-pin)

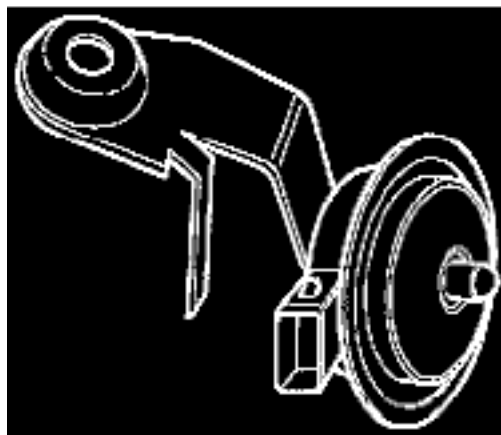
1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)



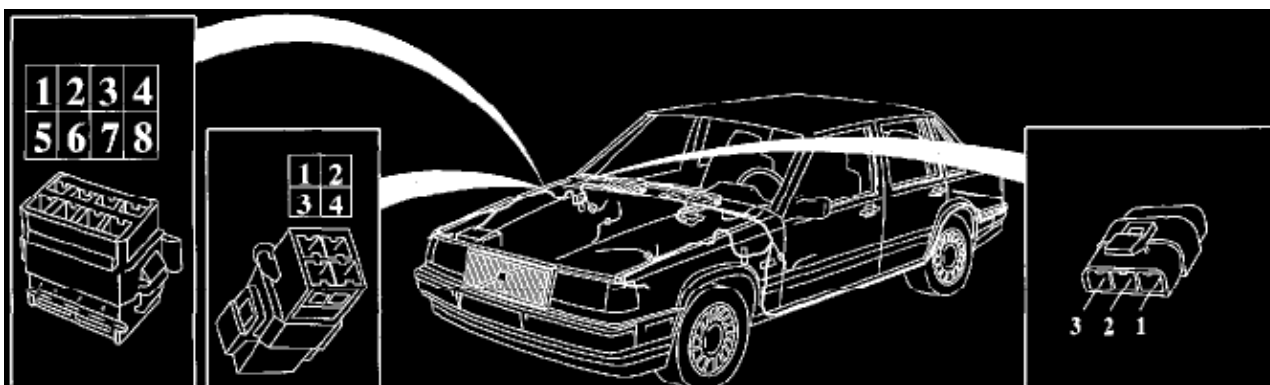
#### Alarm Module: Description and Operation

##### Guard Alarm II System Relay

The control module contains a pre-programmed microprocessor which can be reprogrammed for different functions. It is possible to store up to four different key codes for each remote in the micro-processor. There are three built-in relays for:

- Start inhibitor
- Visual signal
- Sound signal





### B200F/G, B230F/FB/FD/G-EZK (DI)

#### Connector C54 (8-pin)

1	Idle air control (IAC) valve pos. 2	(R-SB)
2	Solenoid coupling A/C	(GN-R)
3	Idle air control (IAC) valve pos. 1	(BL-Y)
4	Engine coolant temperature (ECT) sensor, fuel/ignition (MFI/DI) system pos. 1	(GR-W)
5	-	
6	Ground, LH (MFI) control unit	(SB)
7	Throttle position (TP) switch pos. 3	(R-W)
8	Throttle position (TP) switch pos. 1	(OR)
	Pos. 6, connector C51 at left suspension tower	

#### Connector C55 (8-pin)

1	-	
2	Control module EZK (DI) pos. 8 via pos. 7, connector C50 at left suspension tower	(Y)
3	Mass air flow (MAF) sensor pos. 6 via pos. 6, connector C50 at left suspension tower (B200/230G)	(Y-W)
4	Solenoid valve pulsed secondary air injection (PAIR) via pos. 8	(Y-R)
5	Ground, LH (MFI) control unit	(BN)
6	Injectors	(GN-R)
7	Injectors	(GR)
8	Ground, LH (MFI) control module	(BN)

#### Connector C137 (4-pin)

1	Mass air flow (MAF) sensor pos. 2 via pos. 2, connector C50 at left suspension tower	(BL-GN)
2	Mass air flow (MAF) sensor pos. 3 via pos. 3, connector C50 at left suspension tower	(BL-R)
3	Mass air flow (MAF) sensor pos. 4 via pos. 4, connector C50 at left suspension tower	(BL-W)
4	Mass air flow (MAF) sensor pos. 5 via pos. 5, connector C50 at left suspension tower	(DI-Y)

#### Connector C154 (3-pin)

1	Low-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 1B	(BL-SB)
2	High-speed pressure sensor, engine cooling fan Relay, engine cooling fan pos. 2B	(W-SB)
3	High-pressure sensor, A/C	(GN-R)





10/68 Left high beam  
10/69 Left extra high beam  
10/70 Left low beam  
10/72 Ashtray lighting, front  
10/74 Indicator light, exhaust gas temperature  
10/75 Indicator light, charge pressure, turbodiesel  
10/76 Indicator light, diesel preheating  
10/77 Indicator light, SRS (airbag)  
10/78 Indicator light, seat belt  
10/79 Indicator light, overdrive (auto.)/Gear selection indicator  
10/80 Indicator light, overdrive (man.)  
10/82 indicator light, ABS  
10/83 Indicator light, parking brake  
10/84 Indicator light, brake warning  
10/85 Indicator light, high beam  
10/86 Indicator light, oil pressure  
10/87 Indicator light, charge  
10/88 Indicator light, bulb failure  
10/89 Indicator light, rear foglights  
10/90 Indicator light, washer fluid level  
10/91 Service indicator  
10/92 Indicator light, trailer  
10/93 Indicator light, malfunction indicator lamp (MIL)  
10/94 Indicator light, right turn signal  
10/95 Indicator light, left turn signal  
10/96 Instrument lighting  
10/103 Switch lighting, heated rear window/door 10/104 Switch lighting 10/114 Vanity mirror lighting, passenger's side 10/115 Vanity mirror lighting, driver's side 11/1-26 Fuses 11/41  
Fuse, combined instrument  
15/1 Positive terminal  
15/2 30-rail in el. distribution unit  
15/9 Fuse-protected 15-rail in el, distribution unit

16/1 Radio

16/2 Amplifier

16/3 Loudspeaker, right front door

16/4 Loudspeaker, left front door

16/5 Loudspeaker, right rear door

16/6 Loudspeaker, left rear door

16/7 Loudspeaker, instrument panel, right side

16/8 Loudspeaker, instrument panel, left side

16/9 Antenna

16/10 Horn 1

16/11 Horn 2

16/15 CD-autochanger

16/17 Loudspeaker, rear parcel shelf, left side/left D-post

16/18 Loudspeaker, rear parcel shelf, right side/right D-post

17/1 Service data link connector for starter motor operation

17/11 OBD data link connector

17/14 Data link connector for diagnosis of power seat

18/1 Bridge connector 1

18/2 Bridge connector 2

19/1 Engine coolant temperature (ECT) gauge

19/2 Rev, counter (RPM gauge)

19/3 Speedometer

19/4 Clock

19/5 Fuel gauge

20/1 Ignition coil

20/2 Distributor

20/3-6 Spark plugs 20/9

Glowplugs

20/15 Series resistance

20/18 Cabin fan resistor