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Service Manual Cars

Section 3(39)
Wiring Diagrams
850 1997

TP 3917201

Cars with SRS (Air bag)/SIPS bag

Warning

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

1. Injuries when carrying out a repair. 2. Damage or malfunction of the SRS/SIPS bag system. Repair to either the SRS/SIPS bag itself or a related system or component must be carried out by an authorized Volvo workshop. Refer to the appropriate SRS and SIPS bag service manual for complete system information.

Is the car equipped with SRS?

Cars with SRS are most easily recognized by the SRS letters on the steering wheel pad. If the car is also equipped with an air bag on the passenger side, the letters 'SRS' will be embossed on the instrument panel above the glove compartment. On models from 1993 on, cars with SRS will also be equipped with pyrotechnical seat belt tensioners in the B-posts.

The SIPS bags are only installed in cars equipped with SRS systems, 1995-. Cars with SIPS bags can be recognized by the identifying labels on the windshield and on seat storage tray.

Dashboard or around steering column

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

Center console

The SRS collision sensor is located between the handbrake and gear lever (selector) in the center console. Never install accessories on or near the sensor. The collision sensor connector on 1992 models must **never** be disconnected.

Repairs to steering gear and column

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

Seats

The SIPS bag sensor is located in the front section of the seat storage tray. The SIPS-bag can be activated by a blow or pressure on the tray or if an object is caught between the tray and the door when the door is closed. Refer to the SIPS bag Service manual when carrying out work on the front seats.

Test terminal

-1995: Diagnostic unit B in the engine compartment is used for fault-tracing purposes.

1996-: Data Link Connector socket in passenger compartment.

Modifications to March 1996 included

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

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

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

This book deals with the electronic systems and their functions which are specific for 1997 cars or which differ from the corresponding electrical functions in the 1996 model year cars.

Service Manual Section. 3 (39) Wiring diagrams 850 1996 can be referred to when

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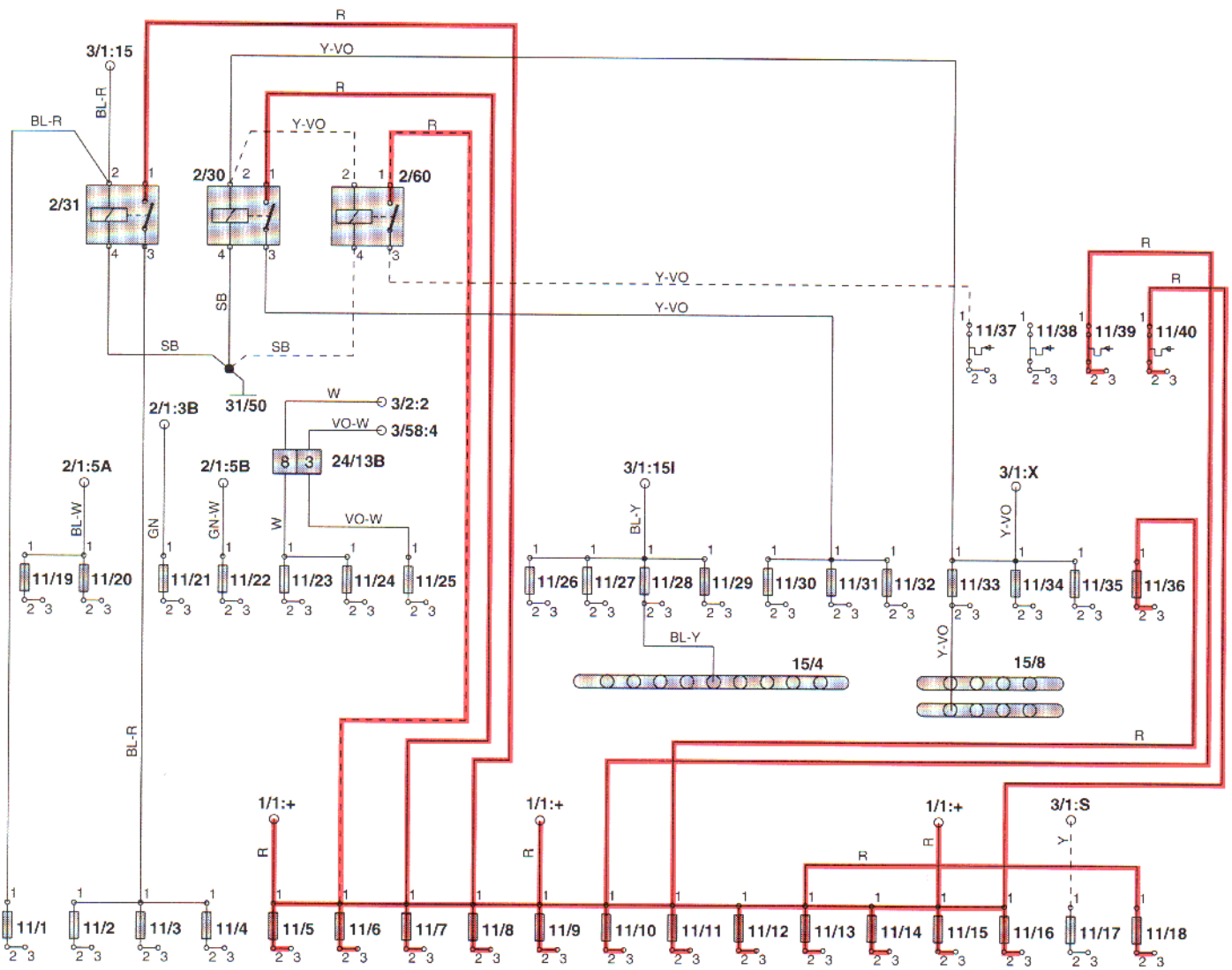
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Order no. TP 3917031 (UK)

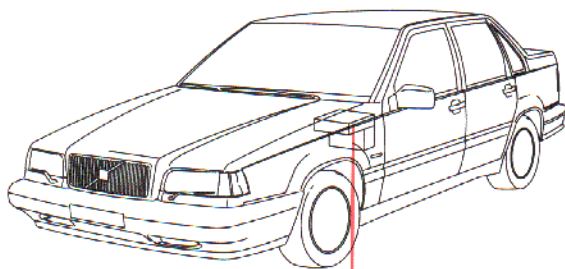
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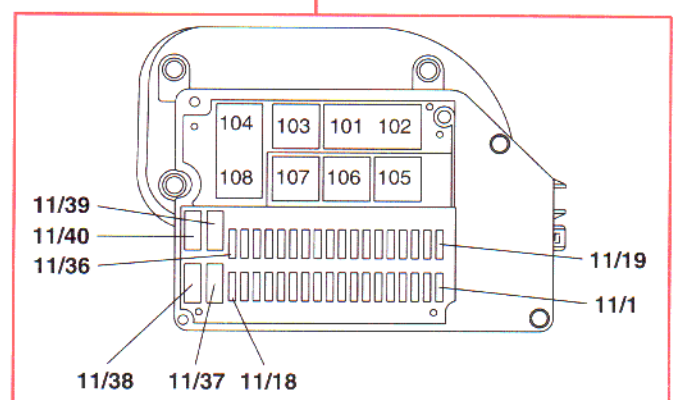
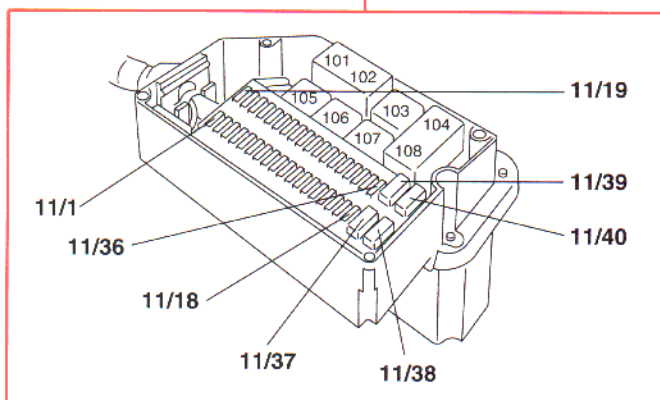
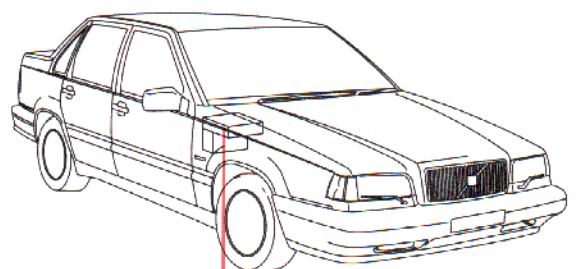
Fuses



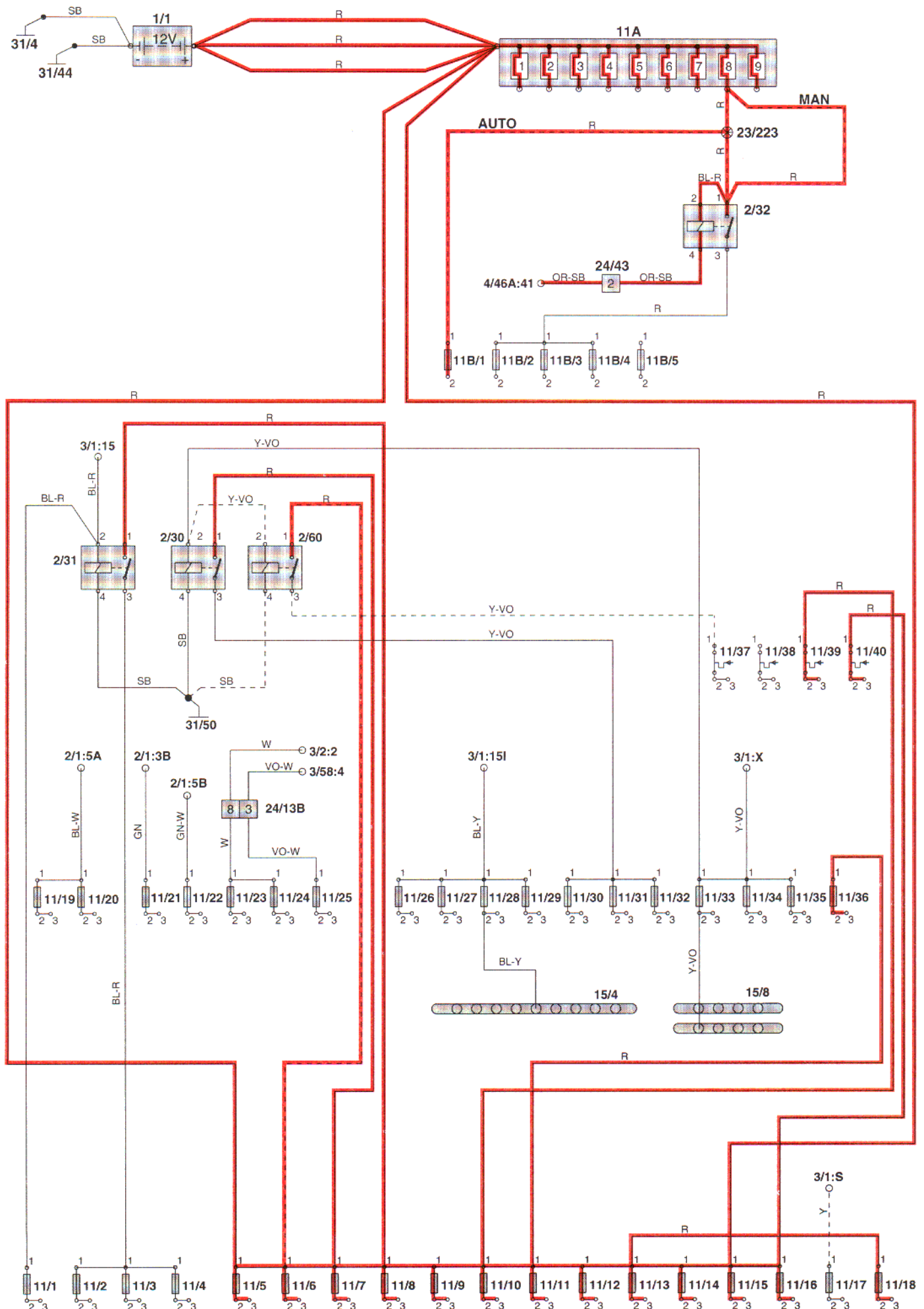
LHD



RHD



Fuses, Diesel

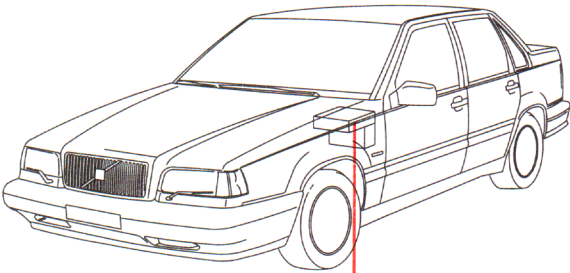


Relays in positions 210-211

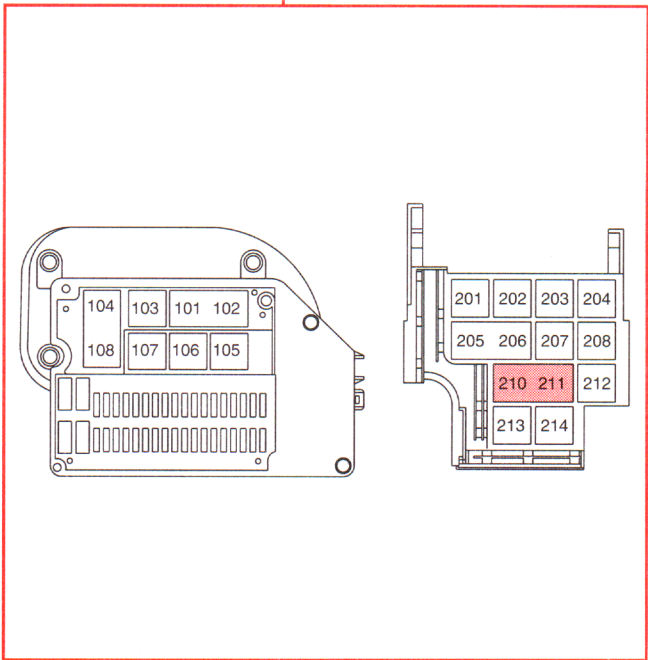
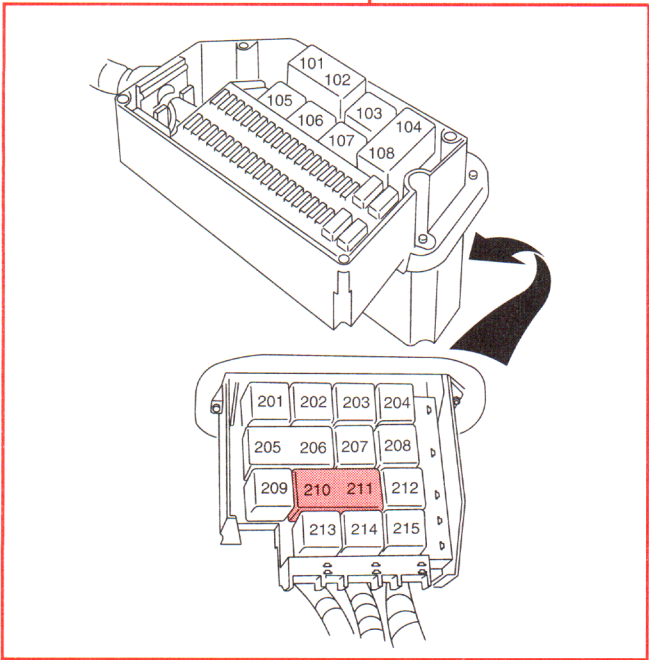
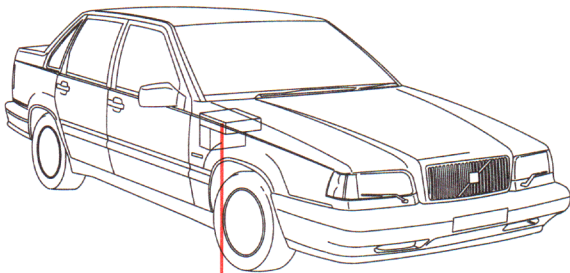
210-211 Alarm relay (2/28)
or
Remote control central locking /indication LED
electronic immobilizer (2/110)

If the car is not equipped with relays 2/28 or 2/110,
there is a bridge at position 210. Position 211 is then vacant.

LHD



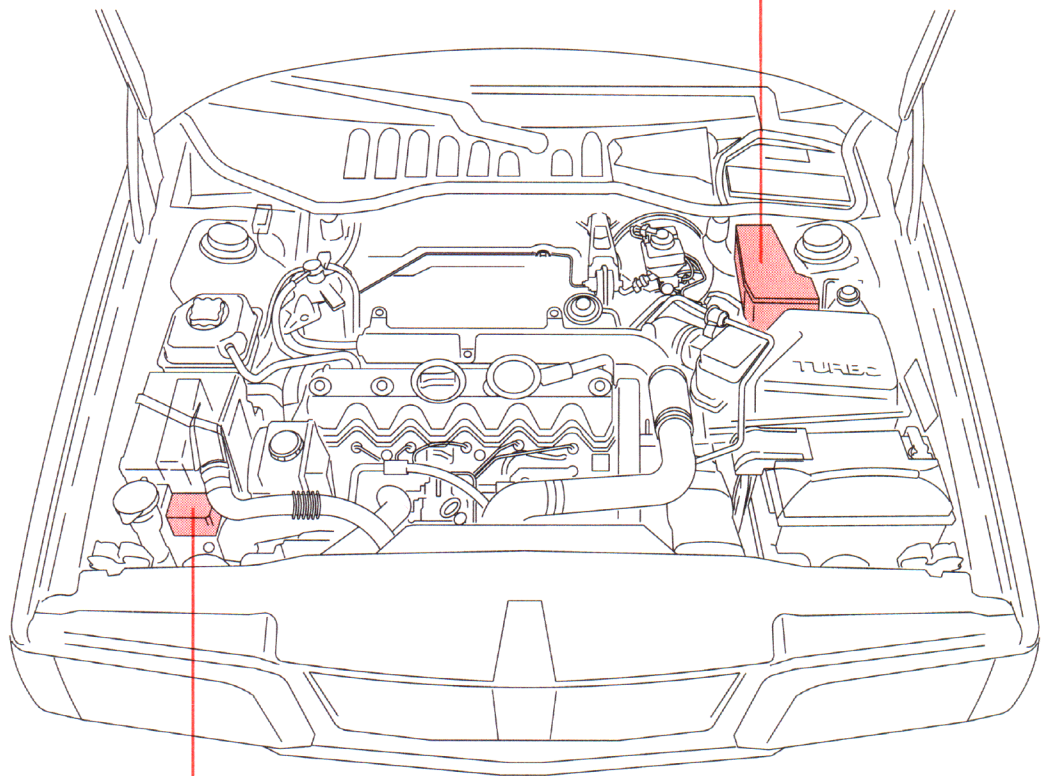
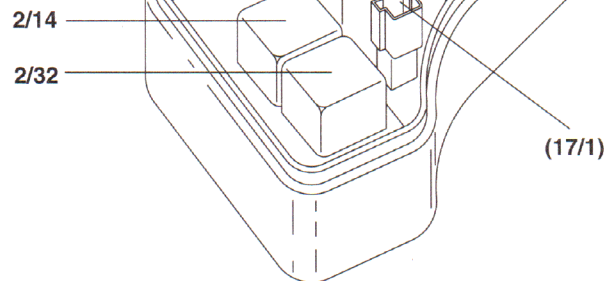
RHD



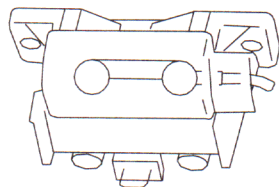
Engine management system relays, Diesel

In relay/fusebox engine compartment

- 2/14 Glow plug relay
- 2/32 Fuel system main relay

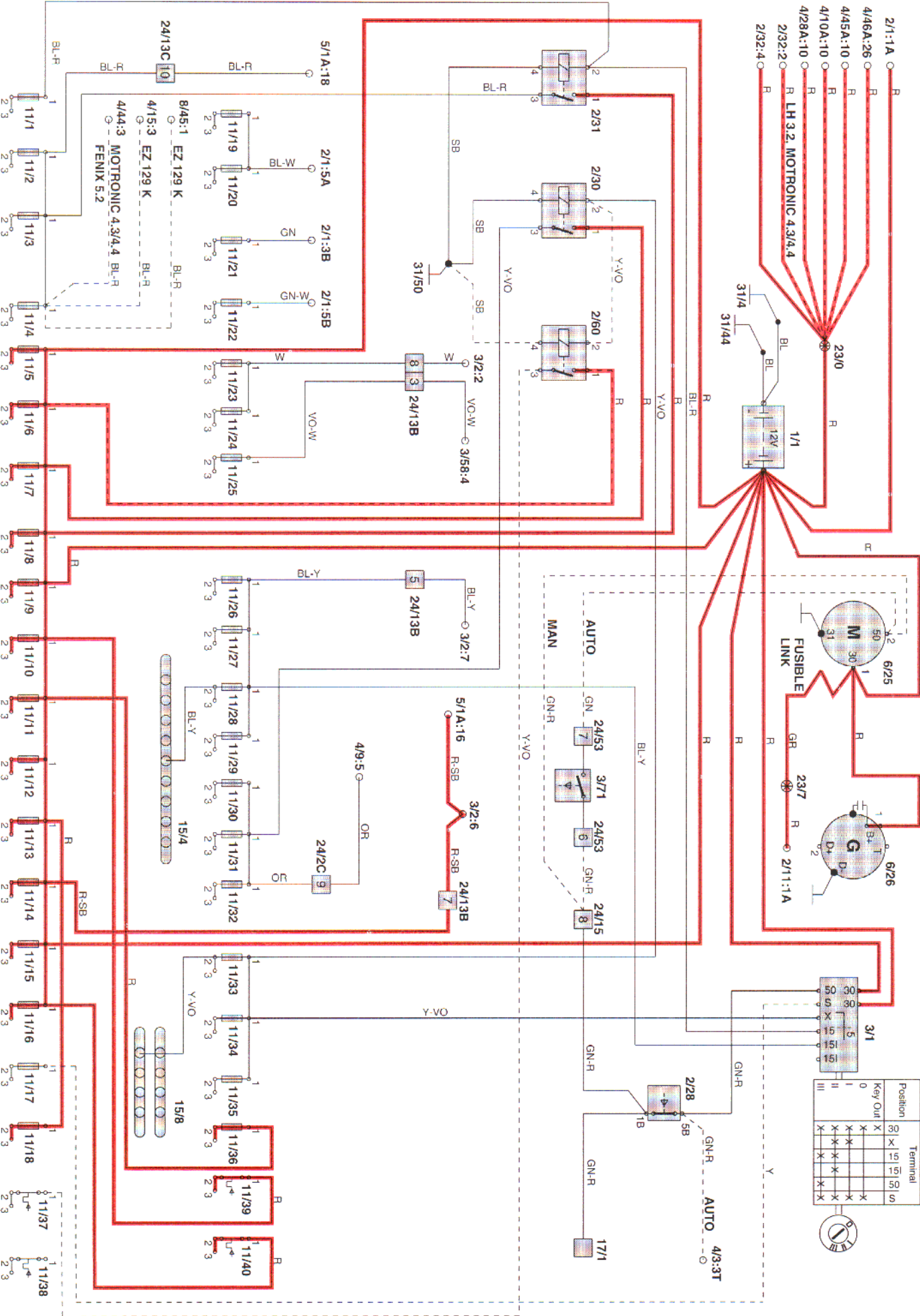


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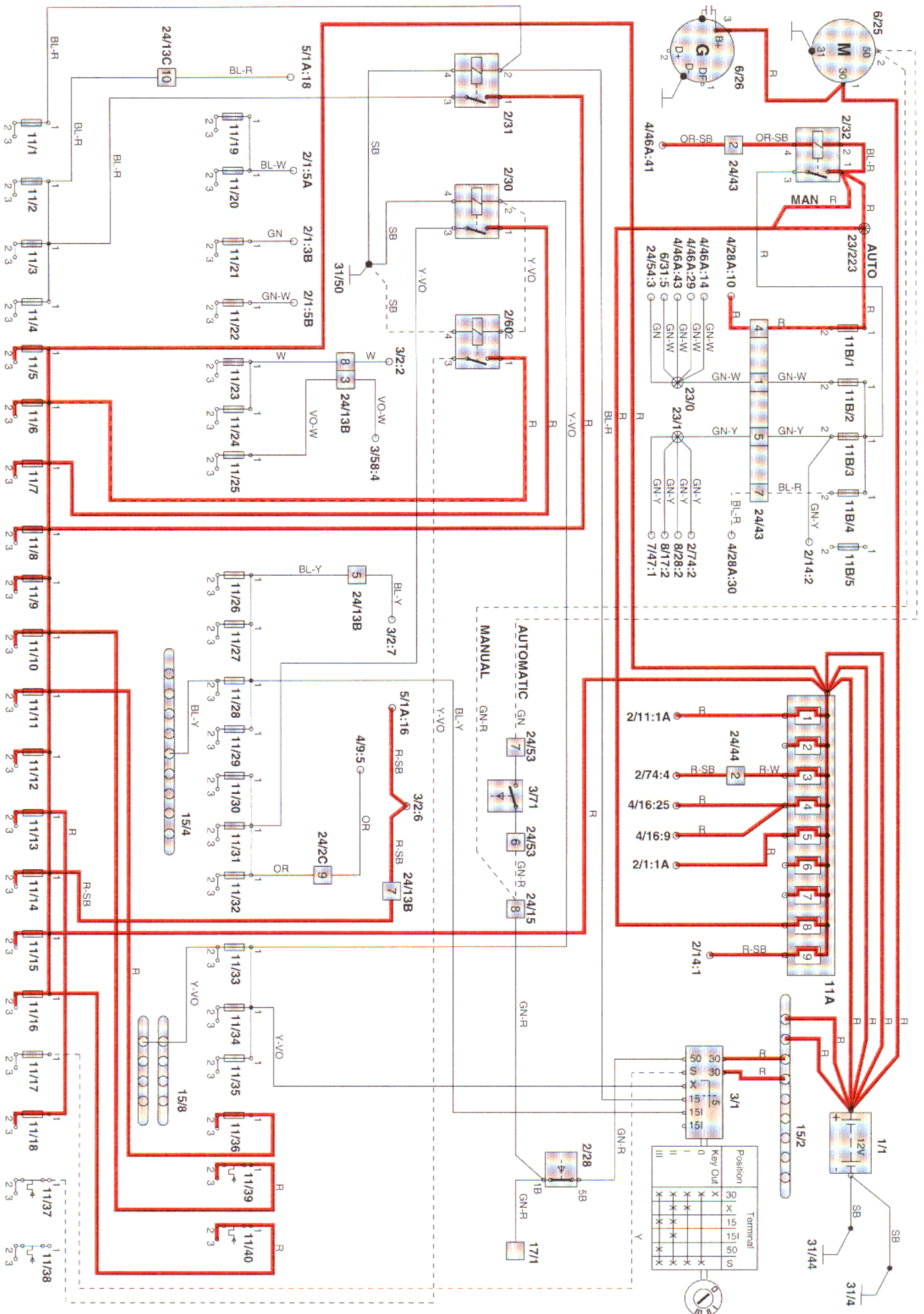


2/74 Extra heater relay

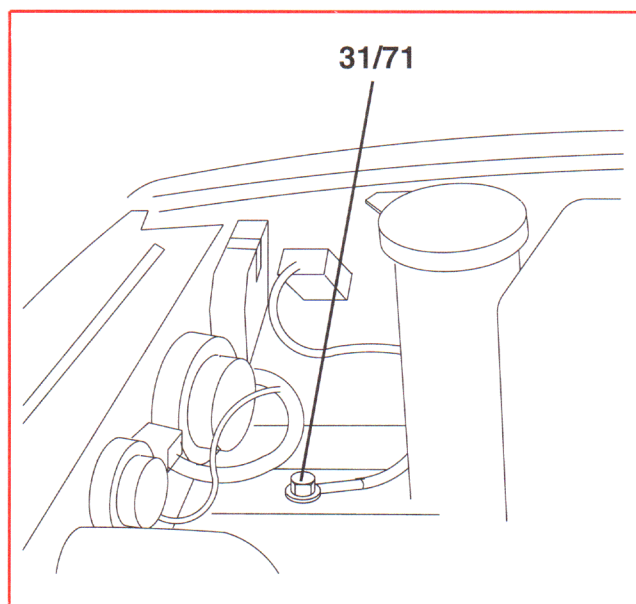
Electrical distribution



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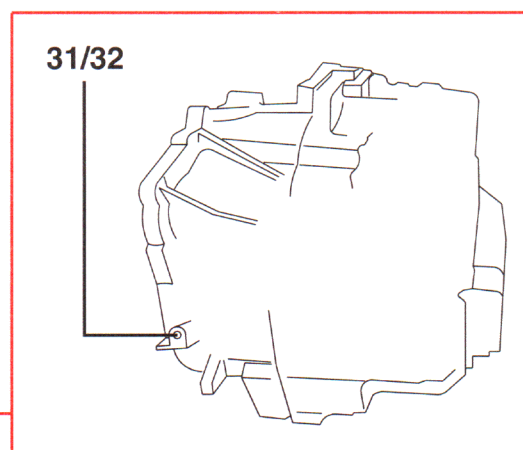
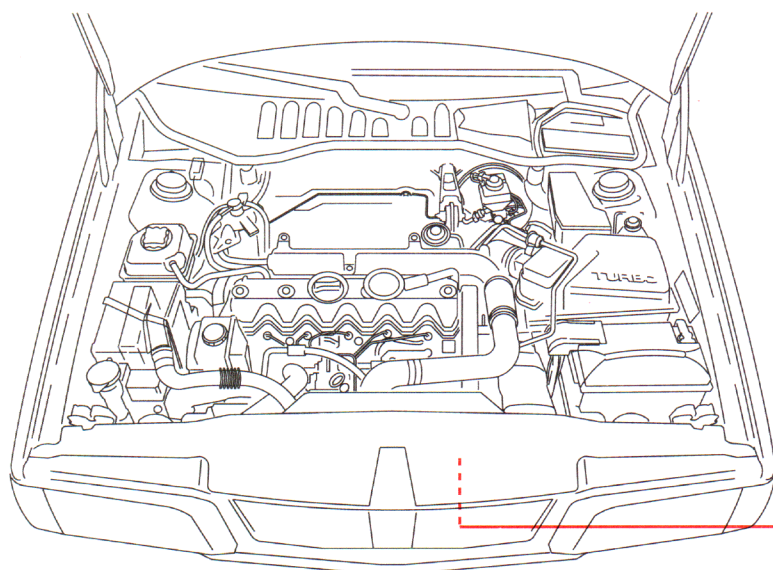


Ground point 31/71



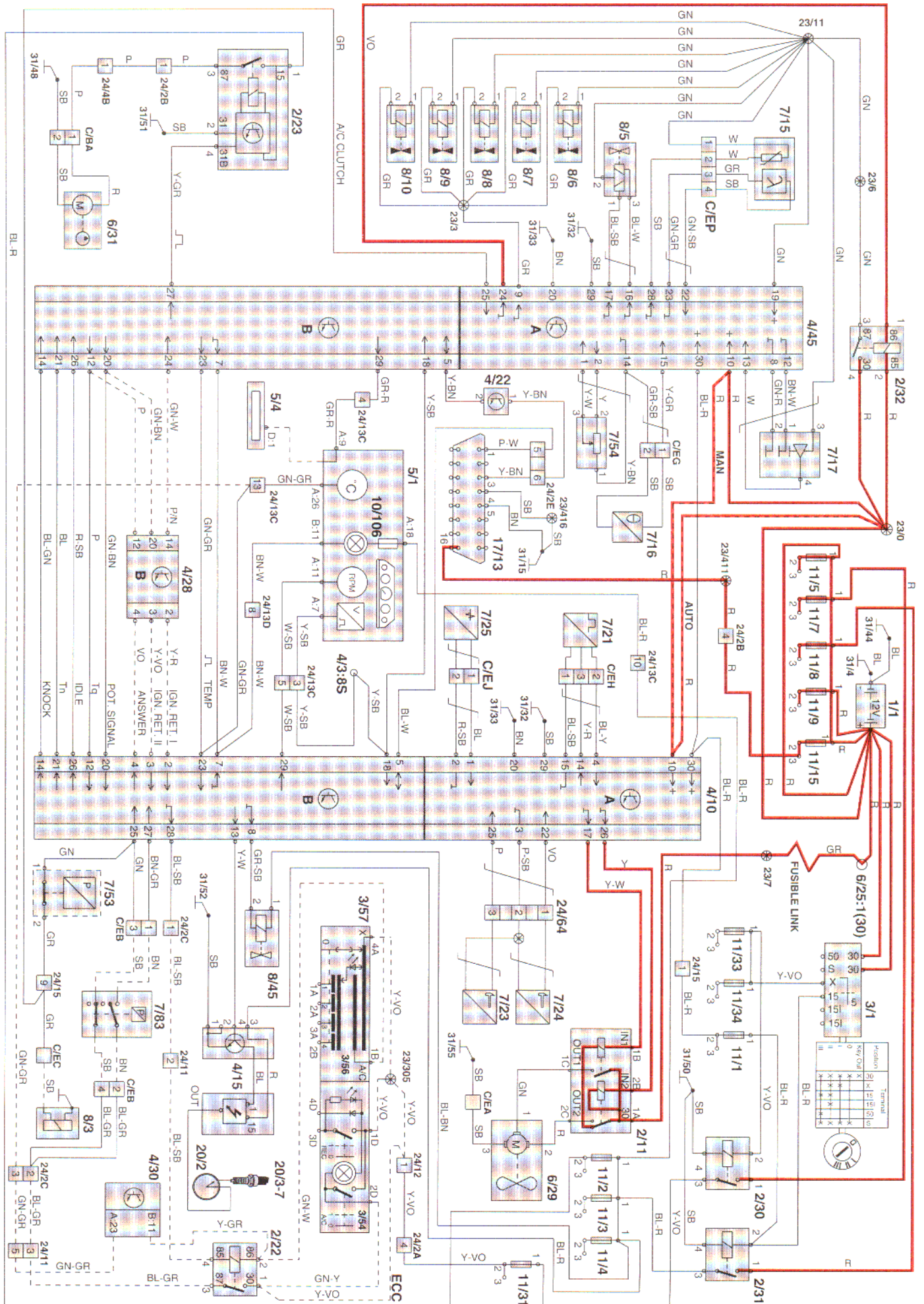
Ground point right side member in engine compartment

Diesel ground point 31/32

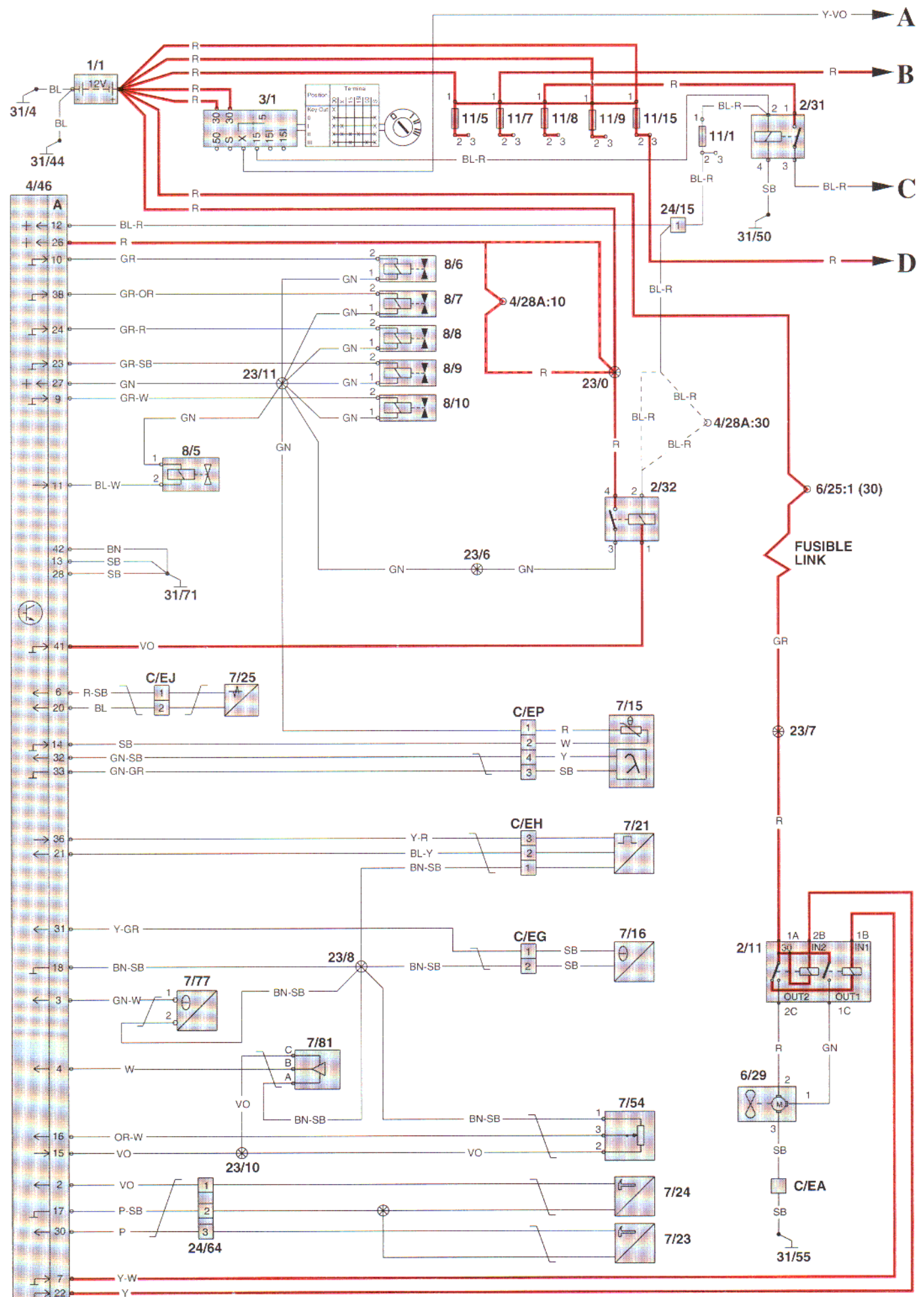


Engine ground point

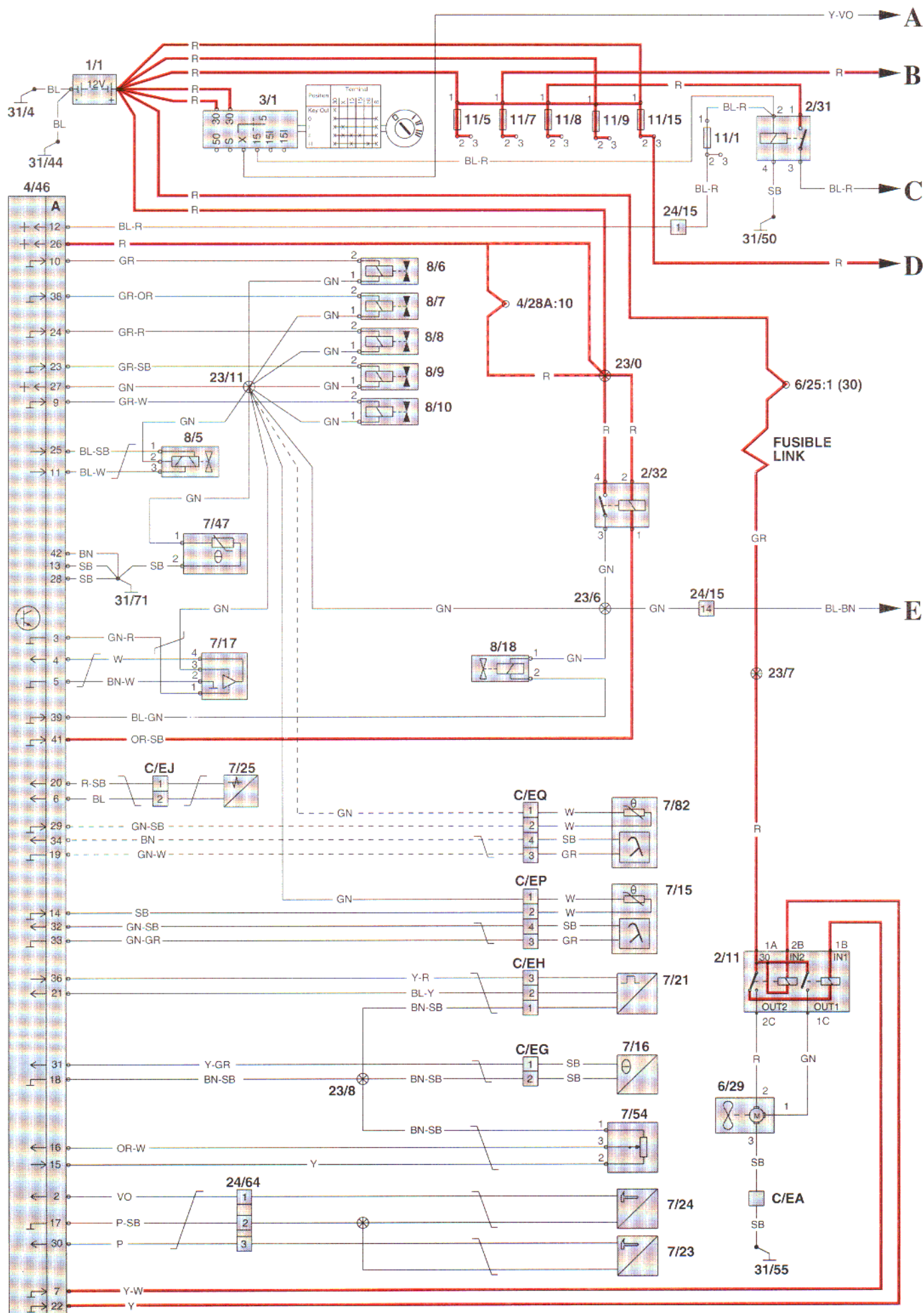
Multiport fuel injection (MFI) systems, LH-jetronic 3.2 & EZ 129 K



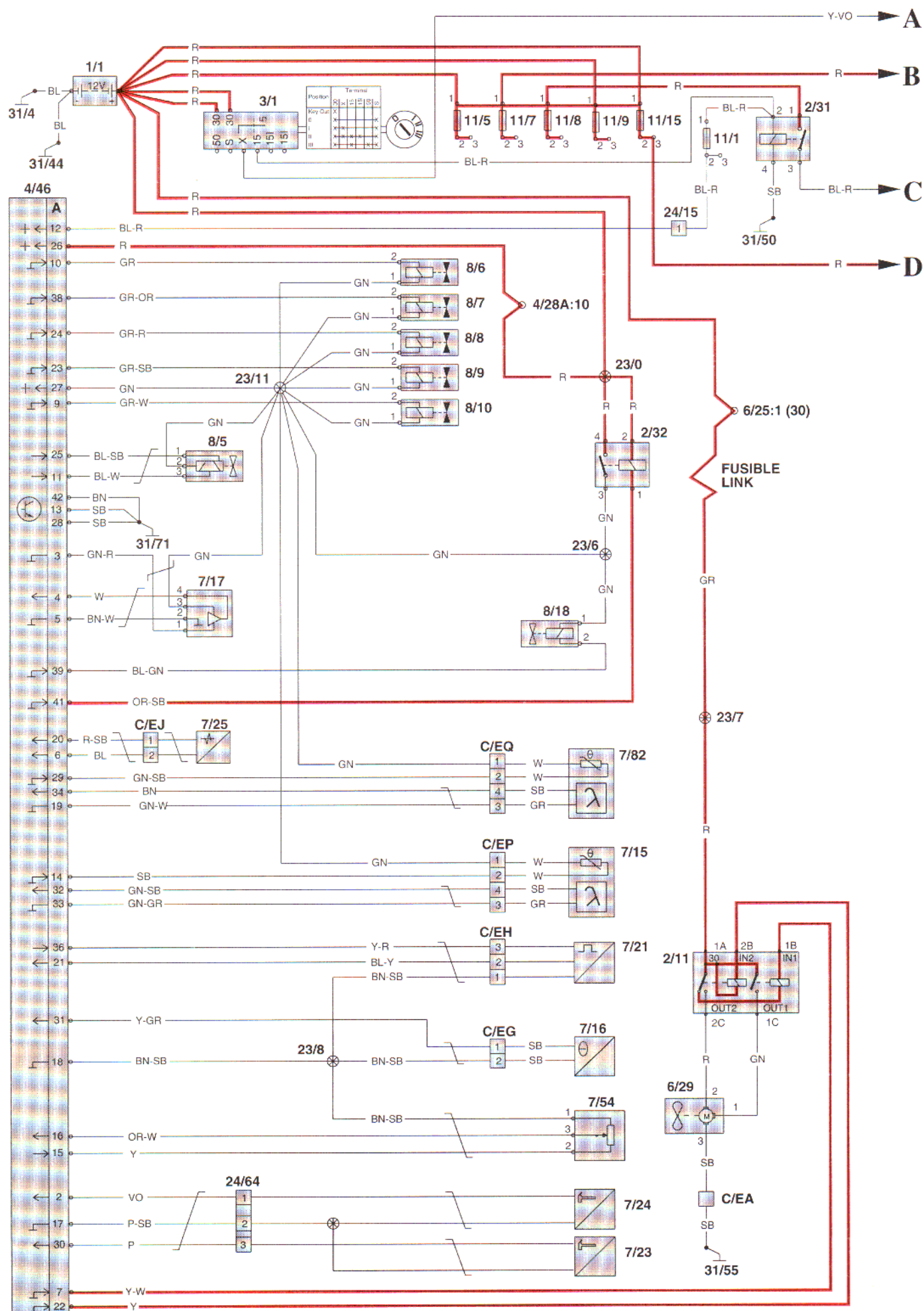
Multipoint fuel injection (MFI) system, Fenix 5,2



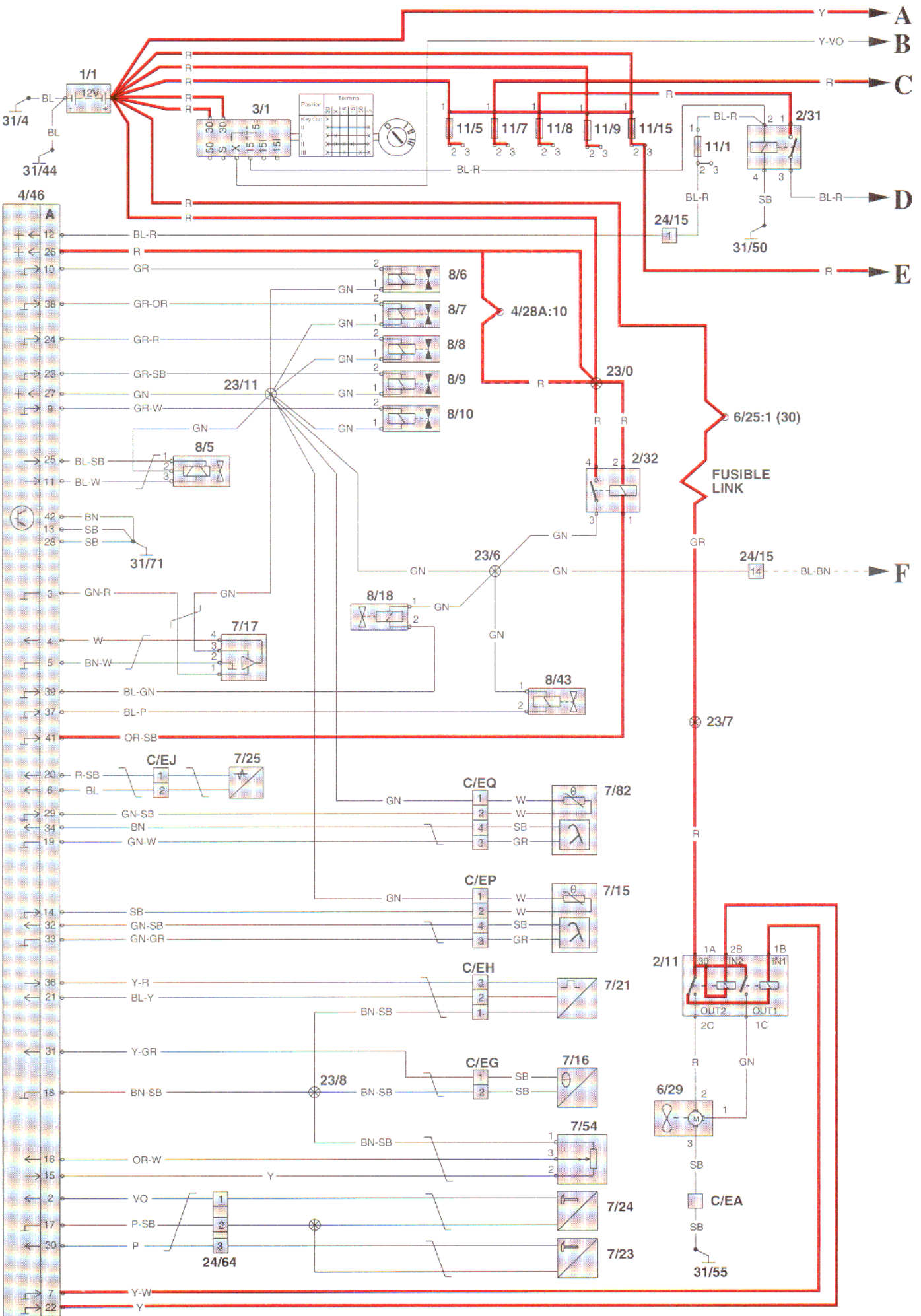
Sequential fuel injection (SFI) system Motronic 4.3 (B 5204 T, B 5234 T)



Sequential fuel injection (SFI) system, Motronic 4.3 (B 5254 S)



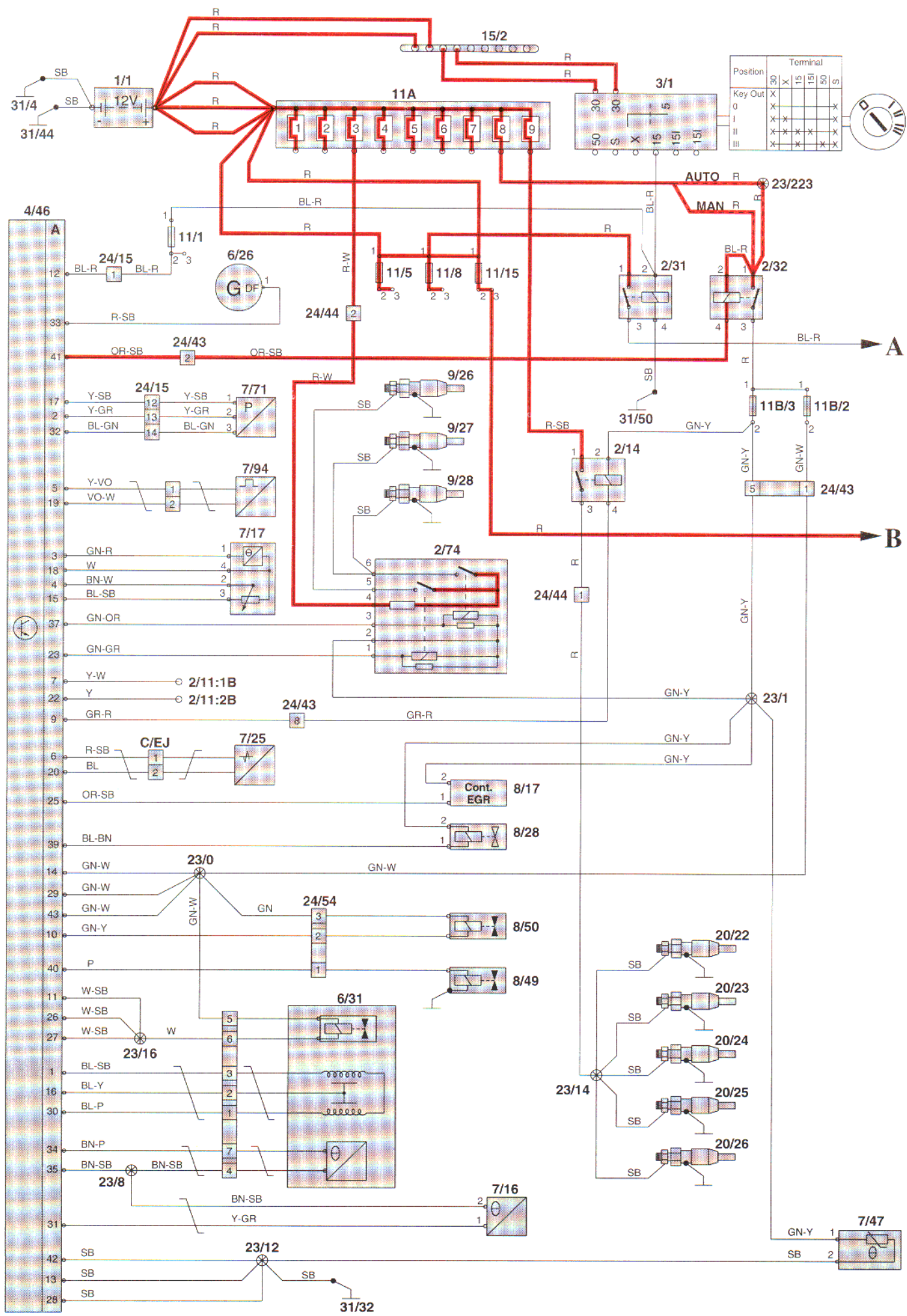
Sequential fuel injection (SFI) system, Motronic 4.4 (B 5254 S)



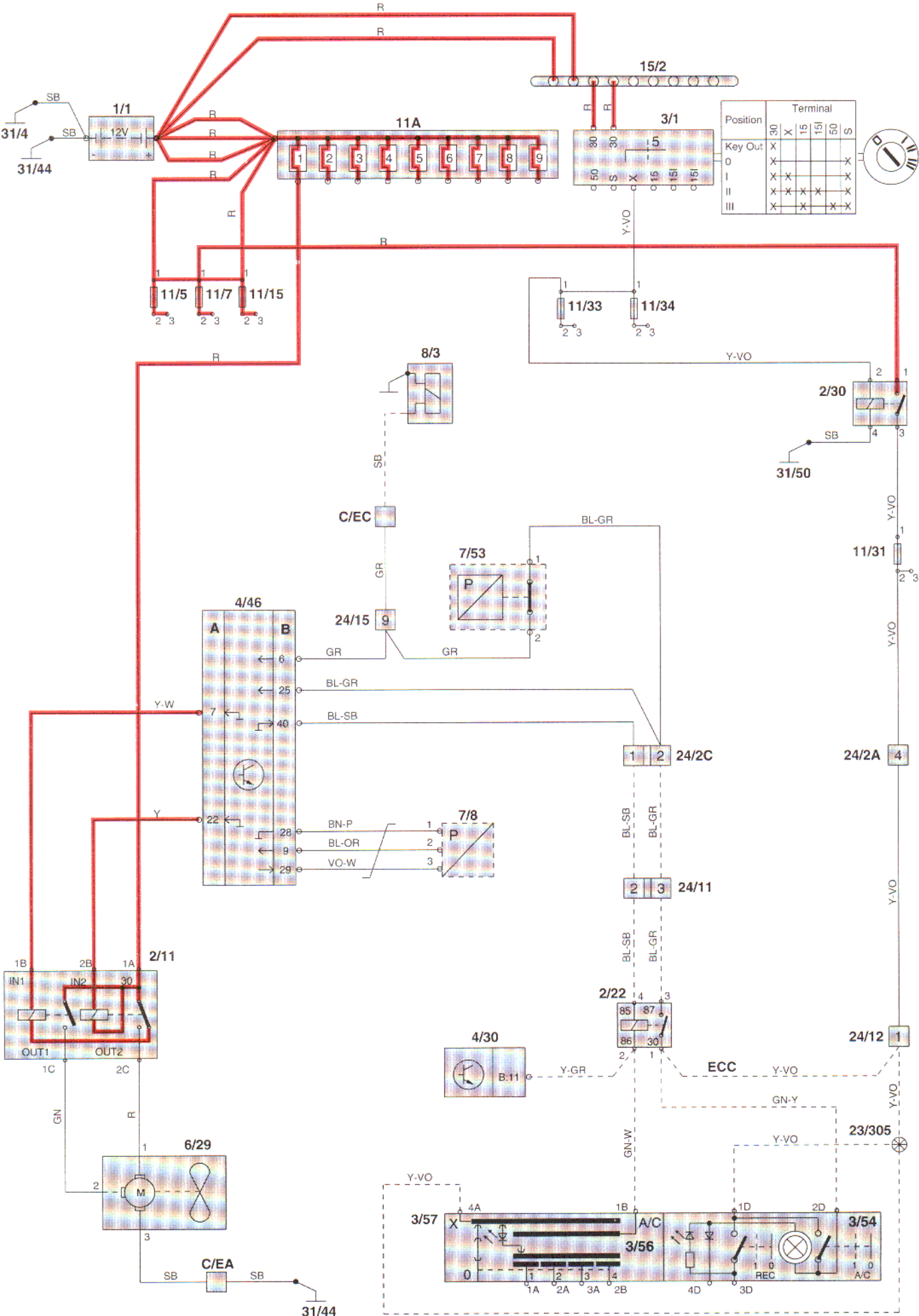
Sequential fuel injection (SFI) system, 4.4 (B 5254 T)

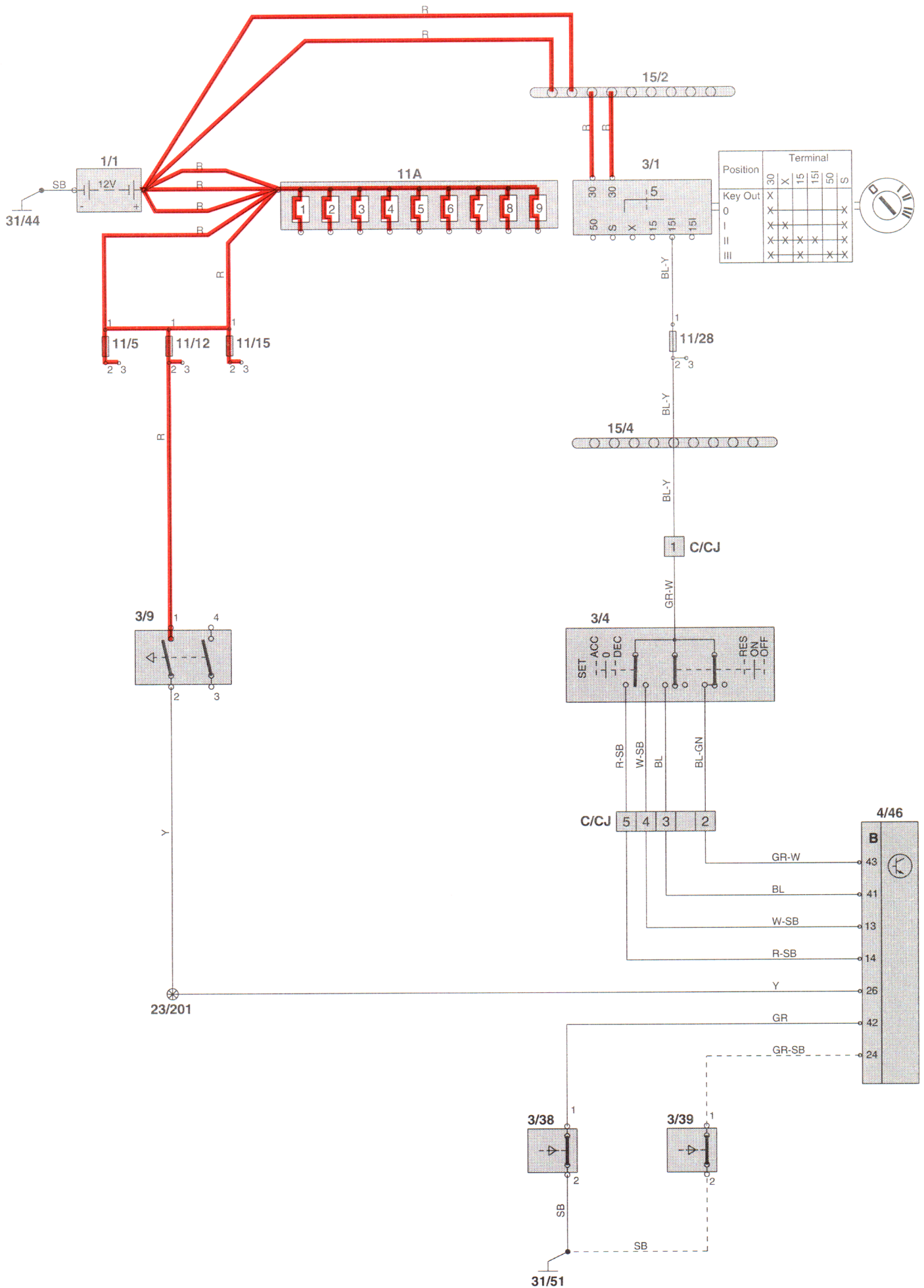


Engine management system MSA 15.7

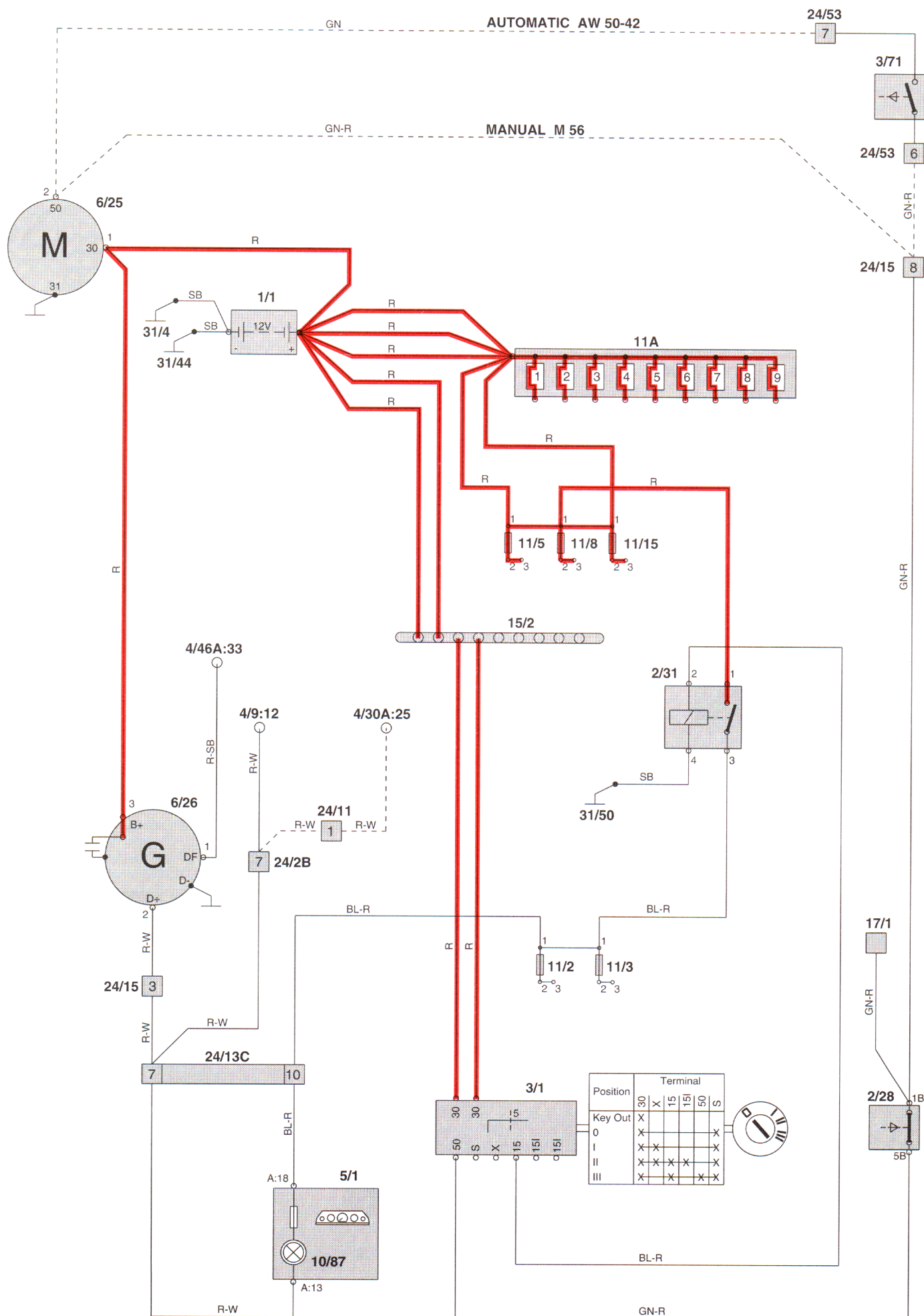


Engine coolant fan (FC), Diesel

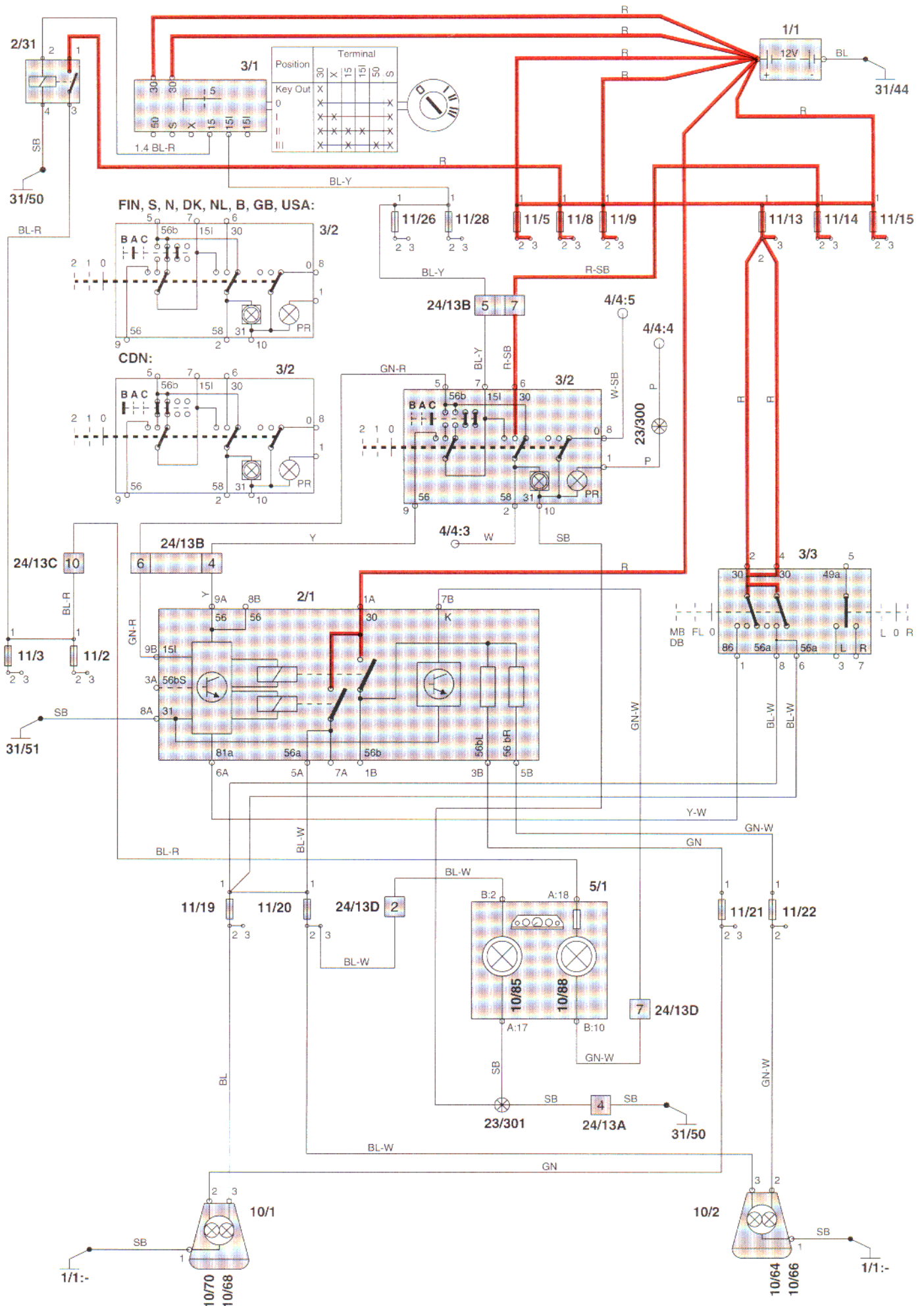




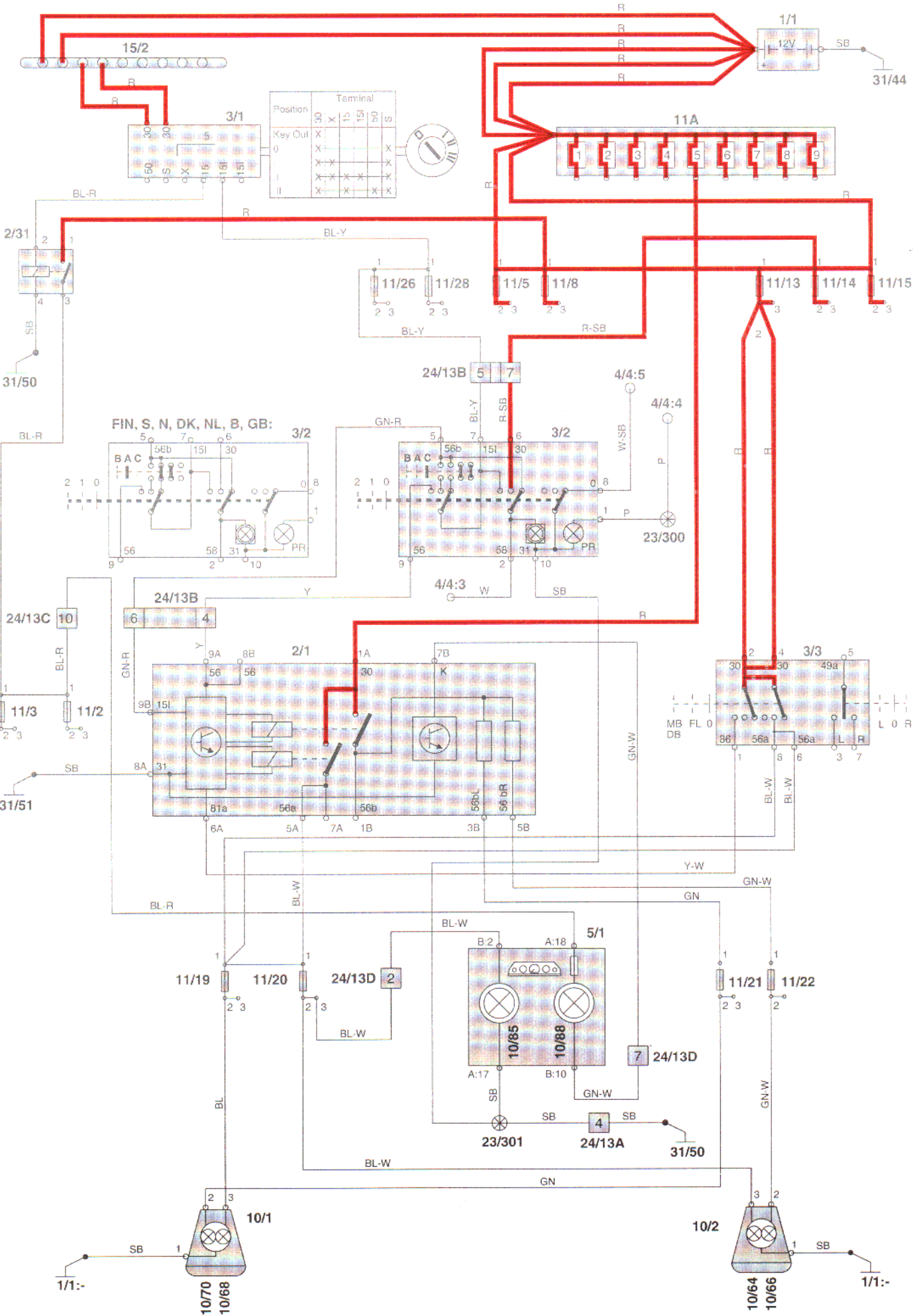
Power supply and starting system, Diesel

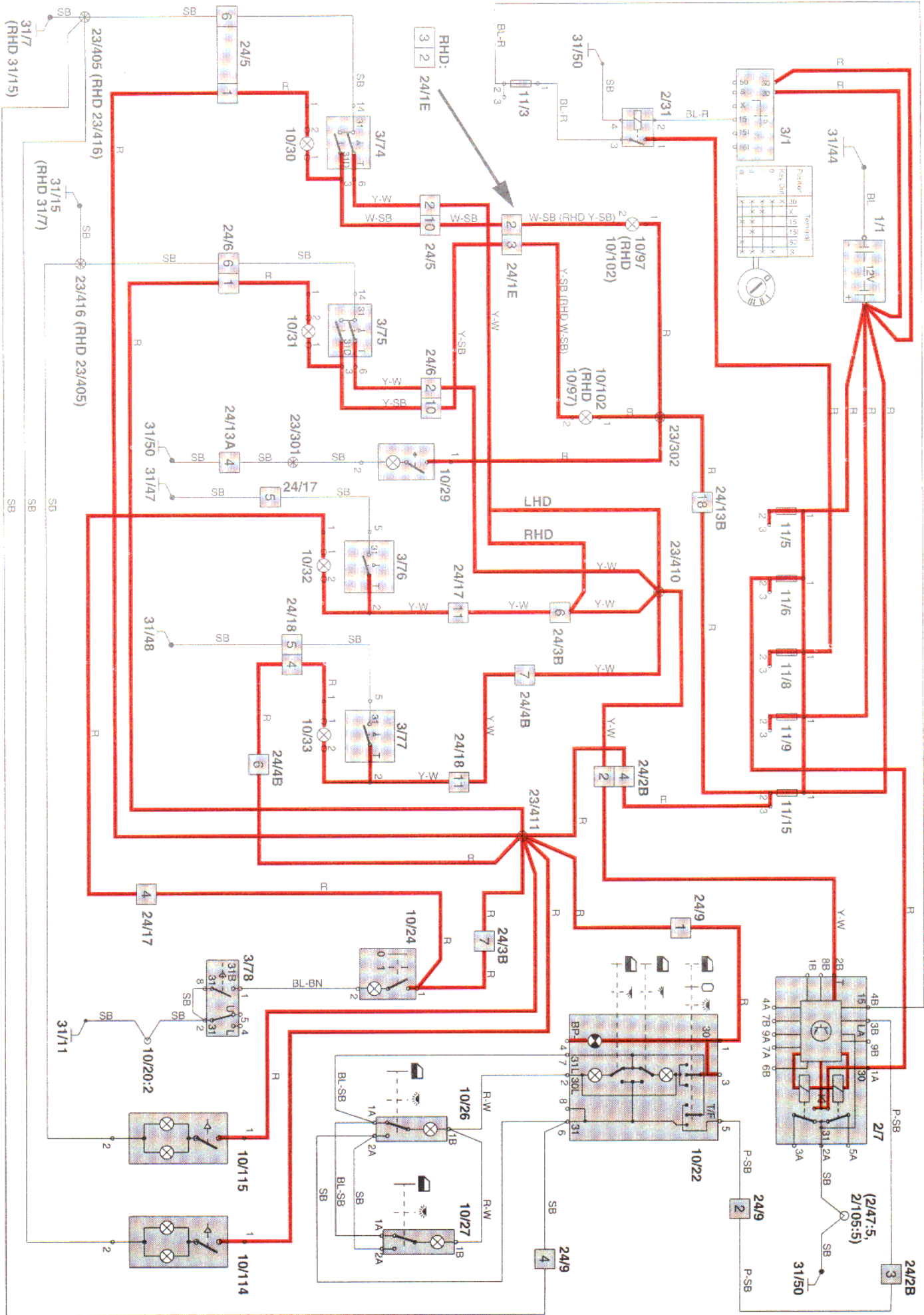


High and low beams

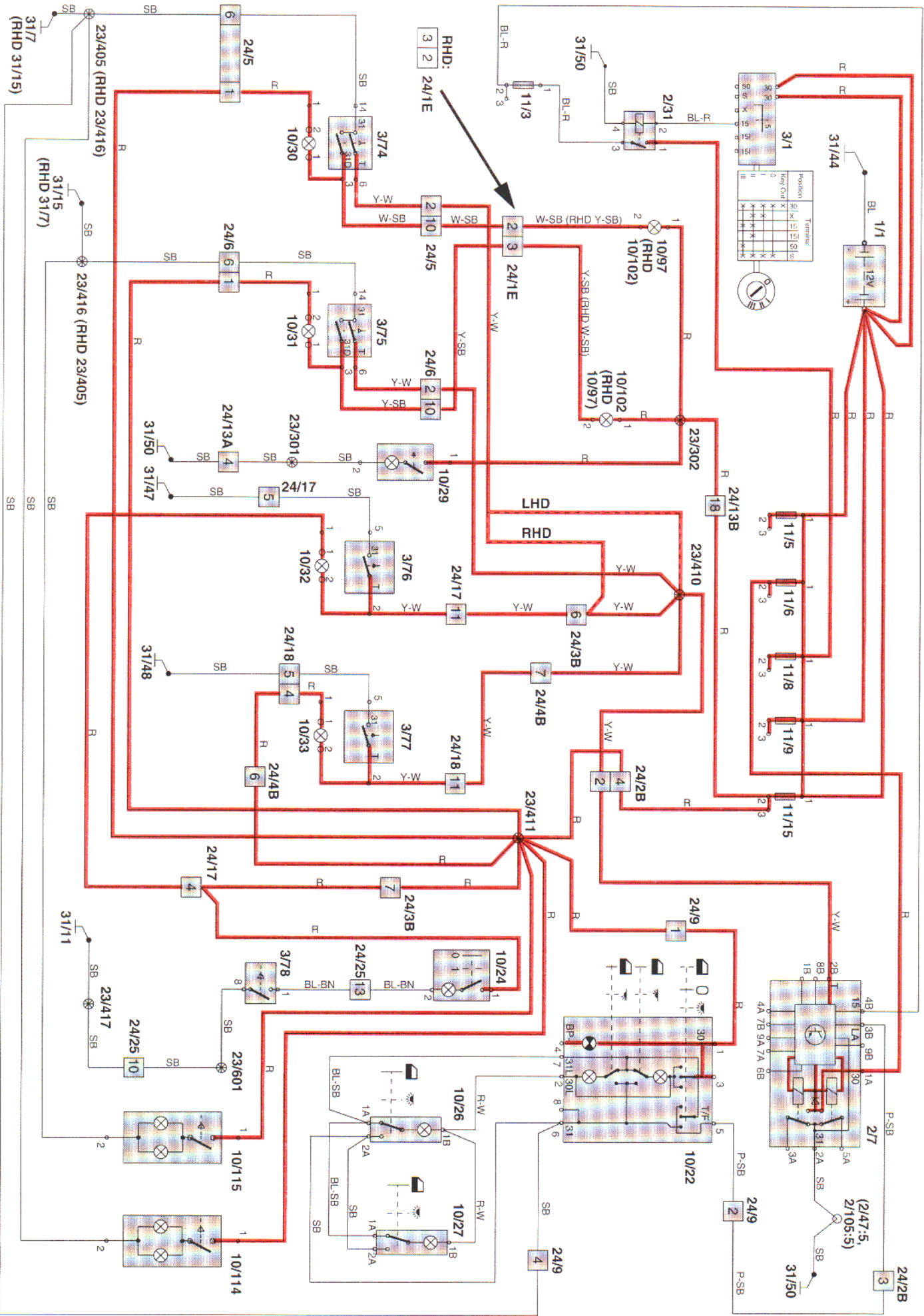


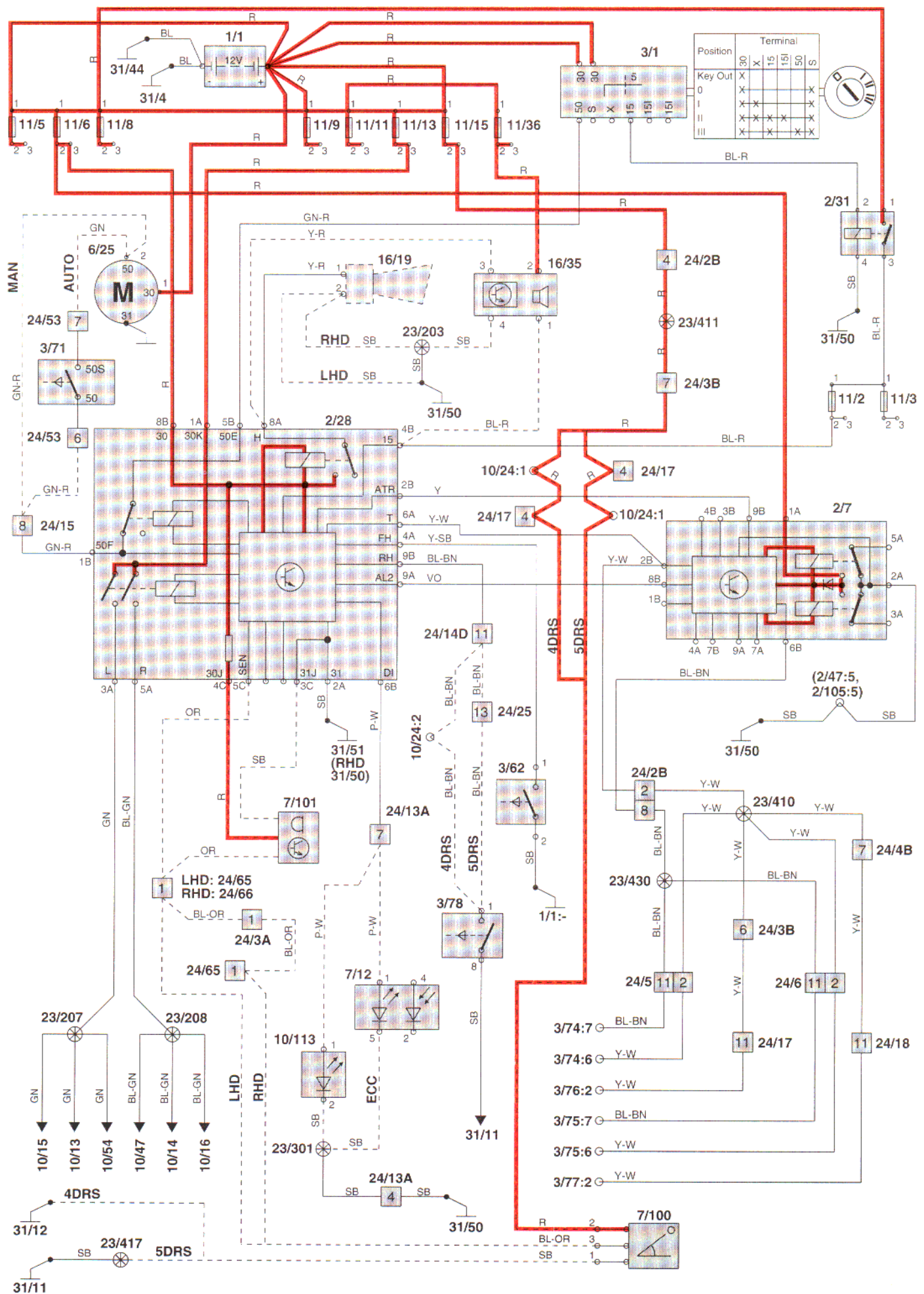
High and low beam, Diesel



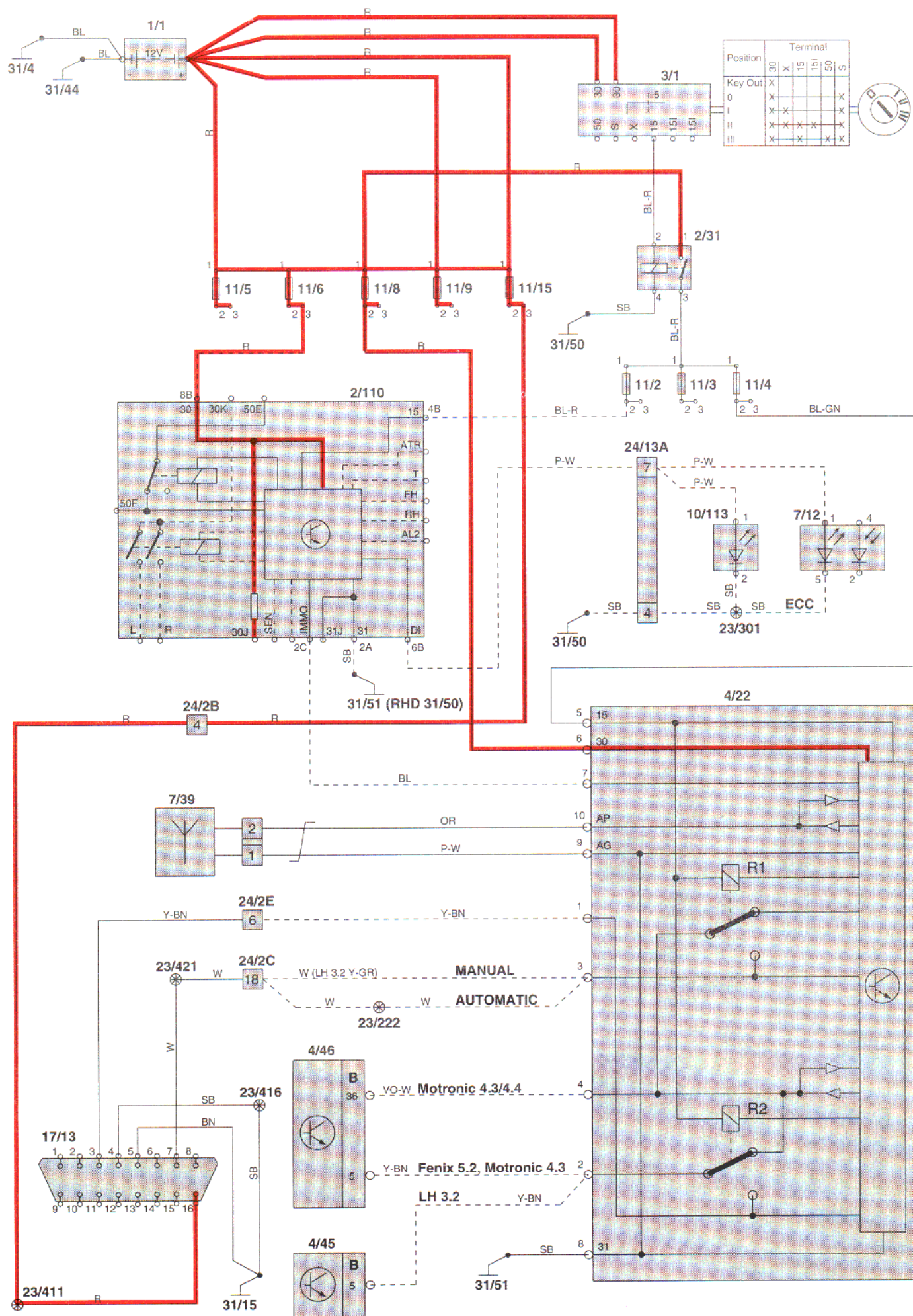


Courtesy light, (5-door)

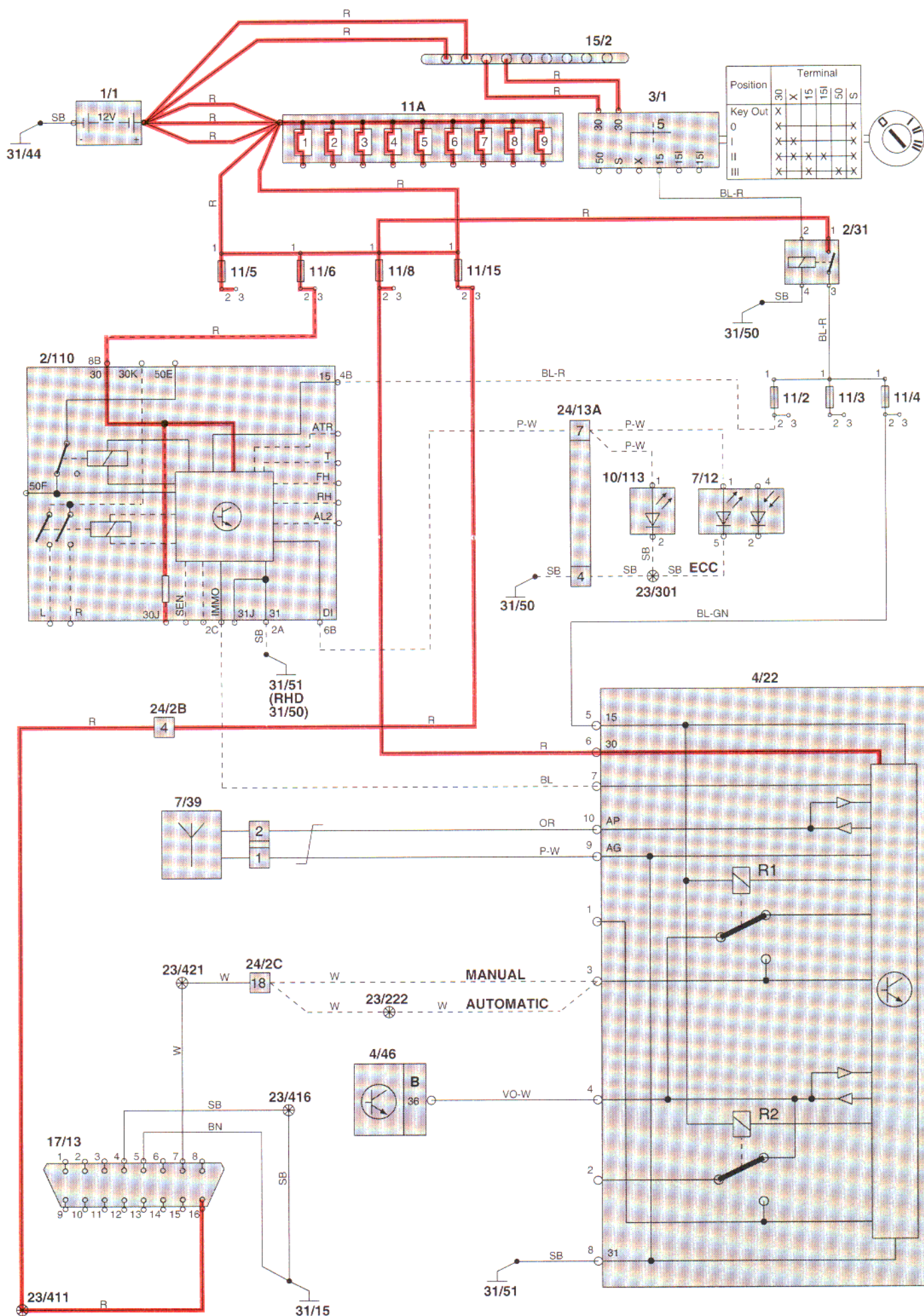




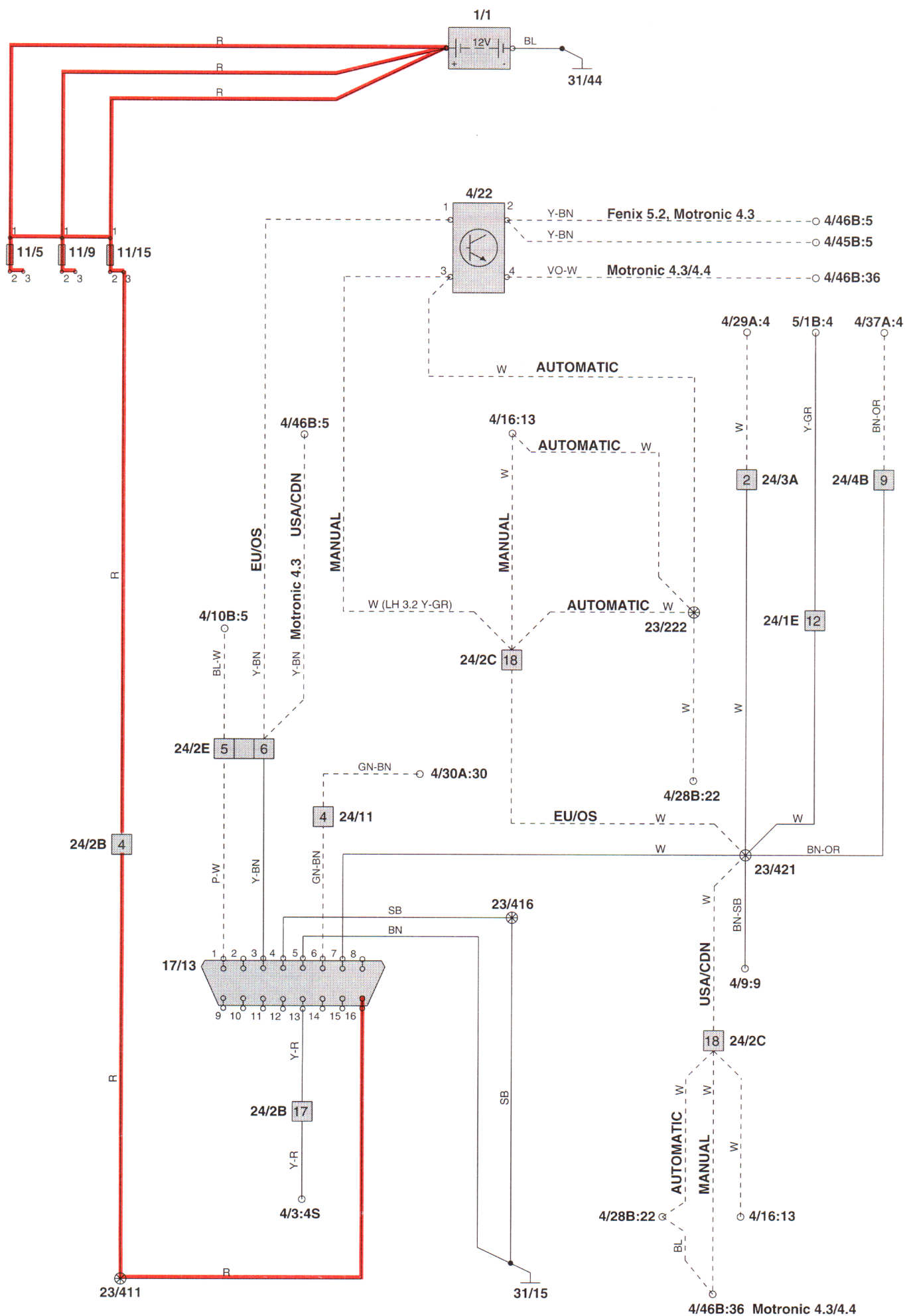
Electronic Immobilizer



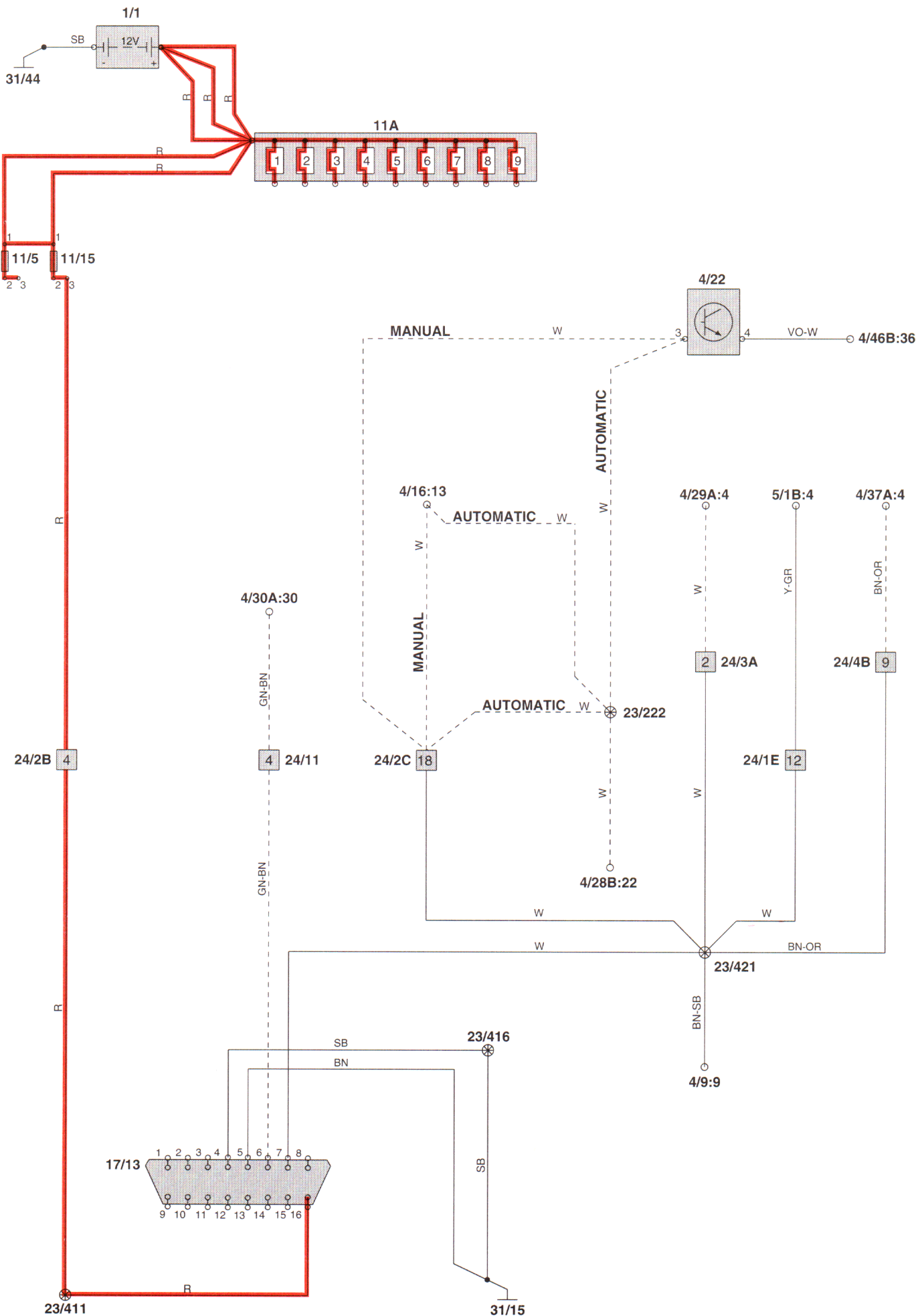
Electronic Immobilizer, Diesel



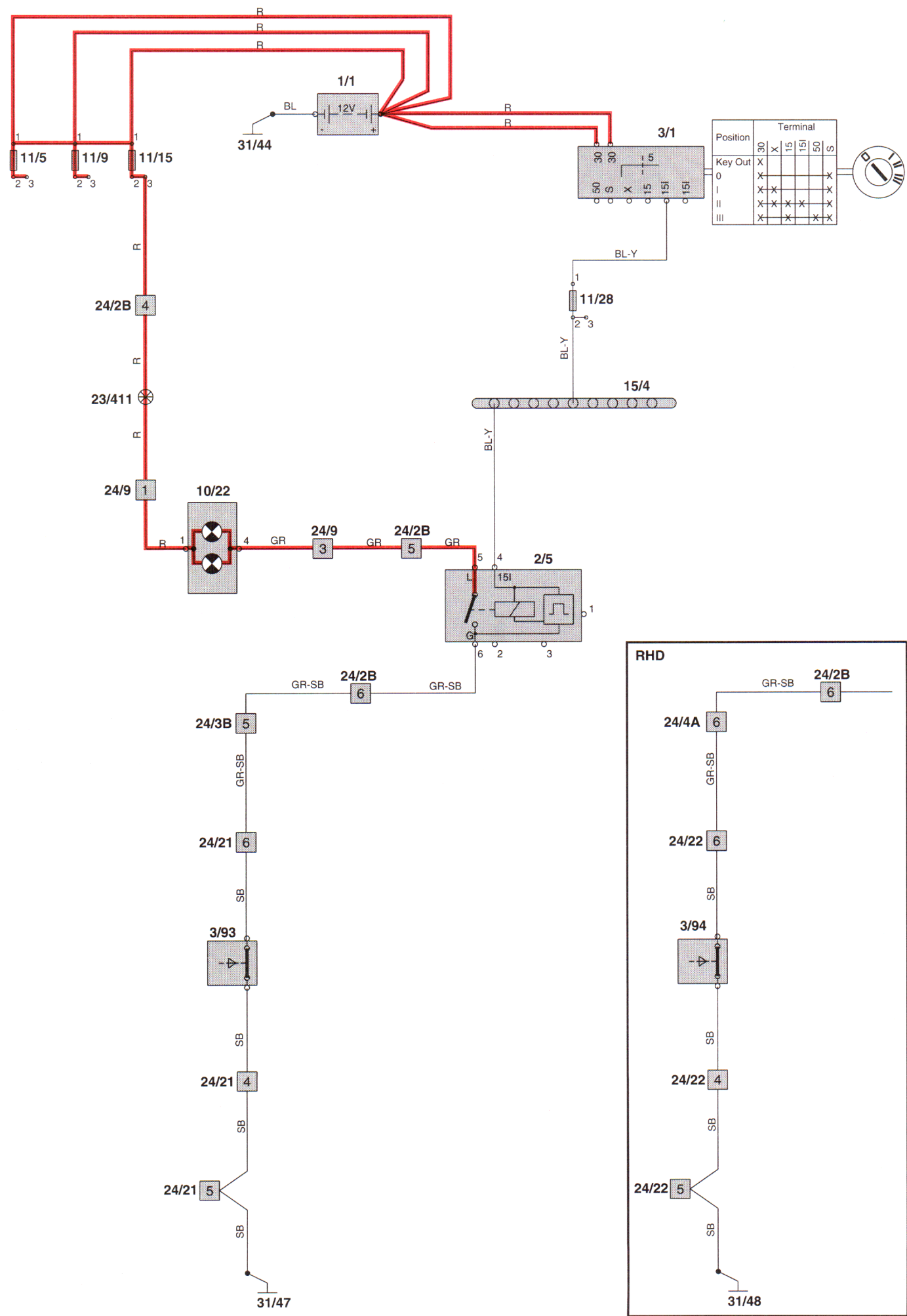
On-board diagnostic system (OBD system)



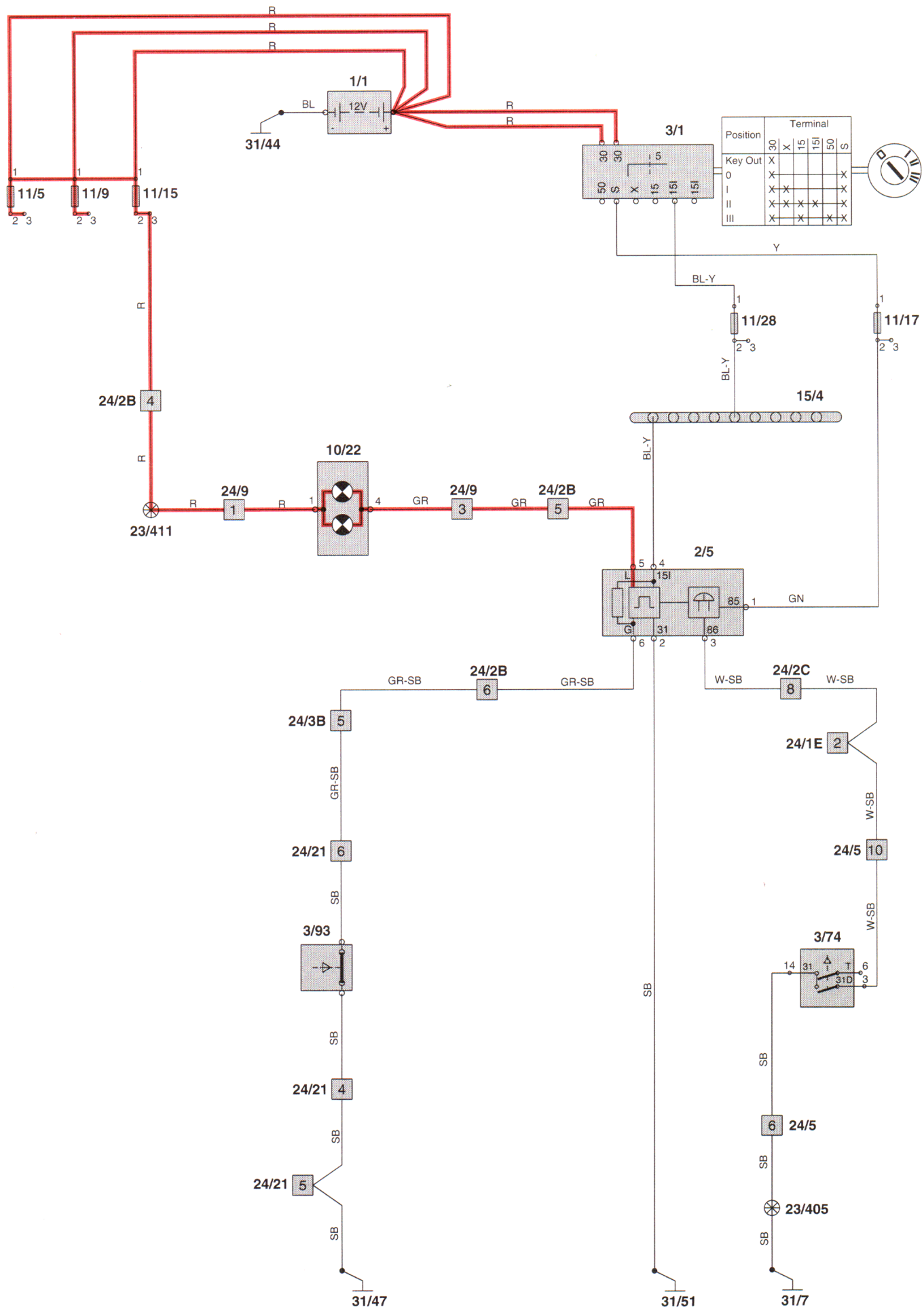
On-board diagnostic system (OBD system), Diesel



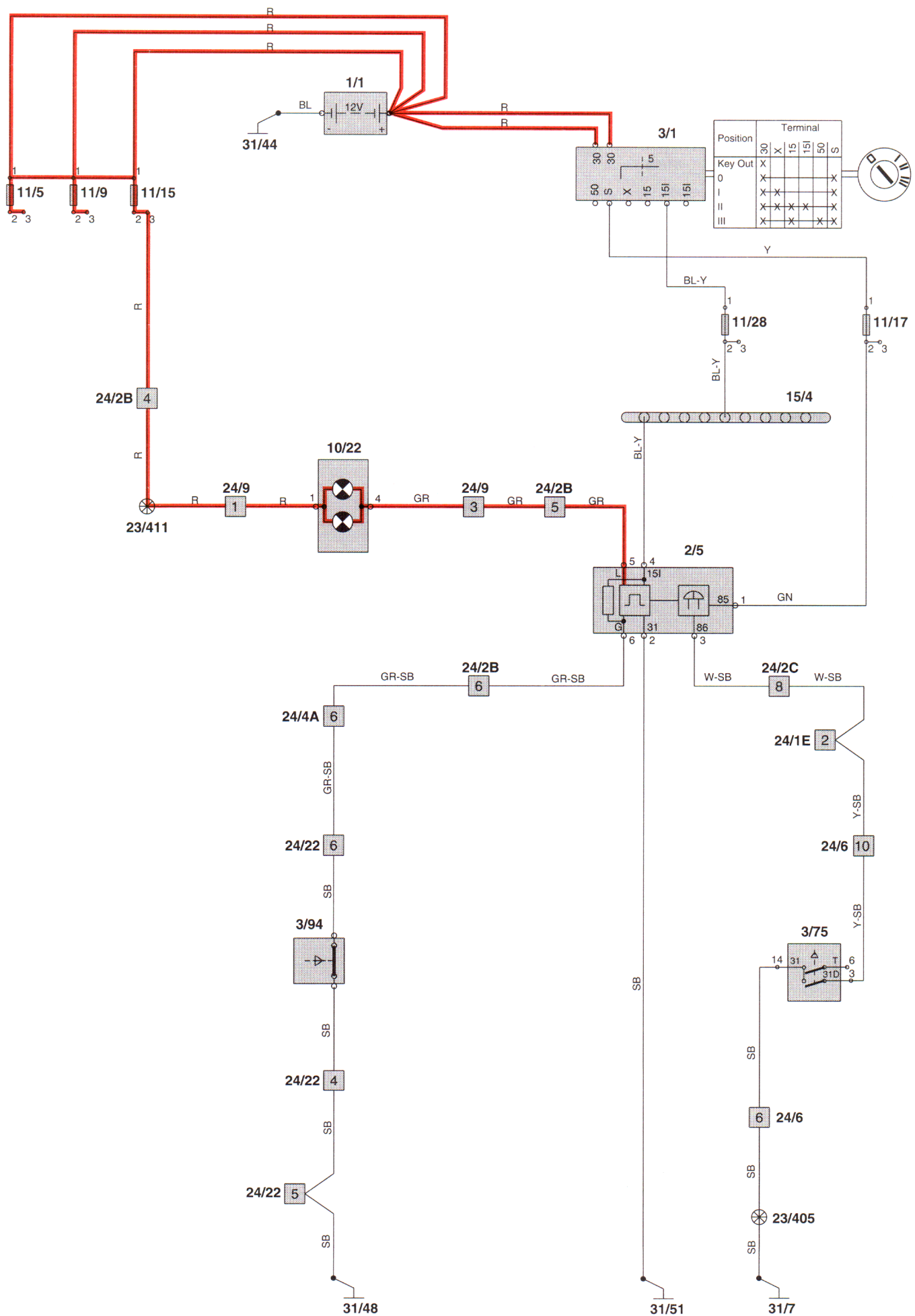
Seat belt reminder



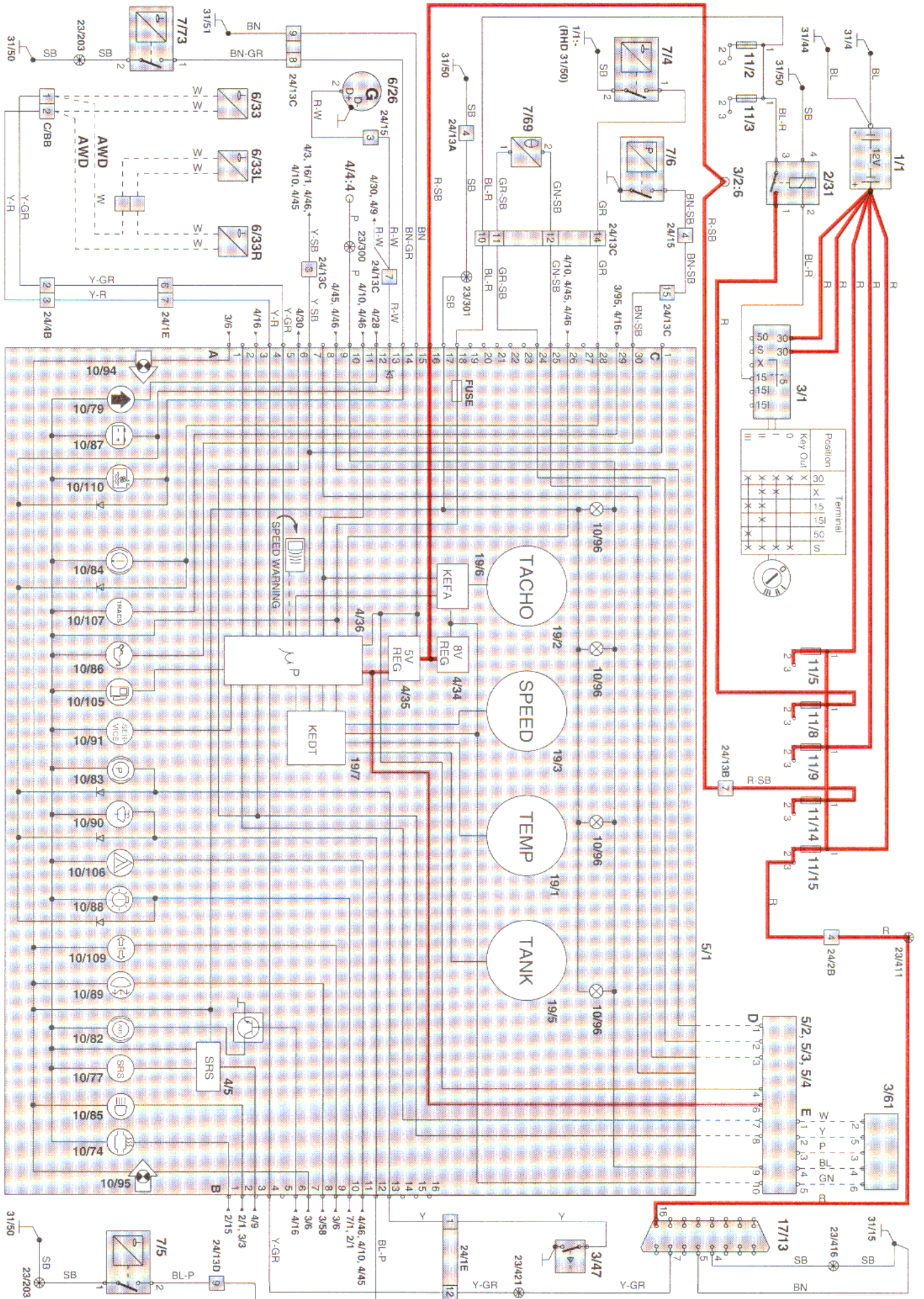
Seat belt and key warning, USA, Canada, Korea



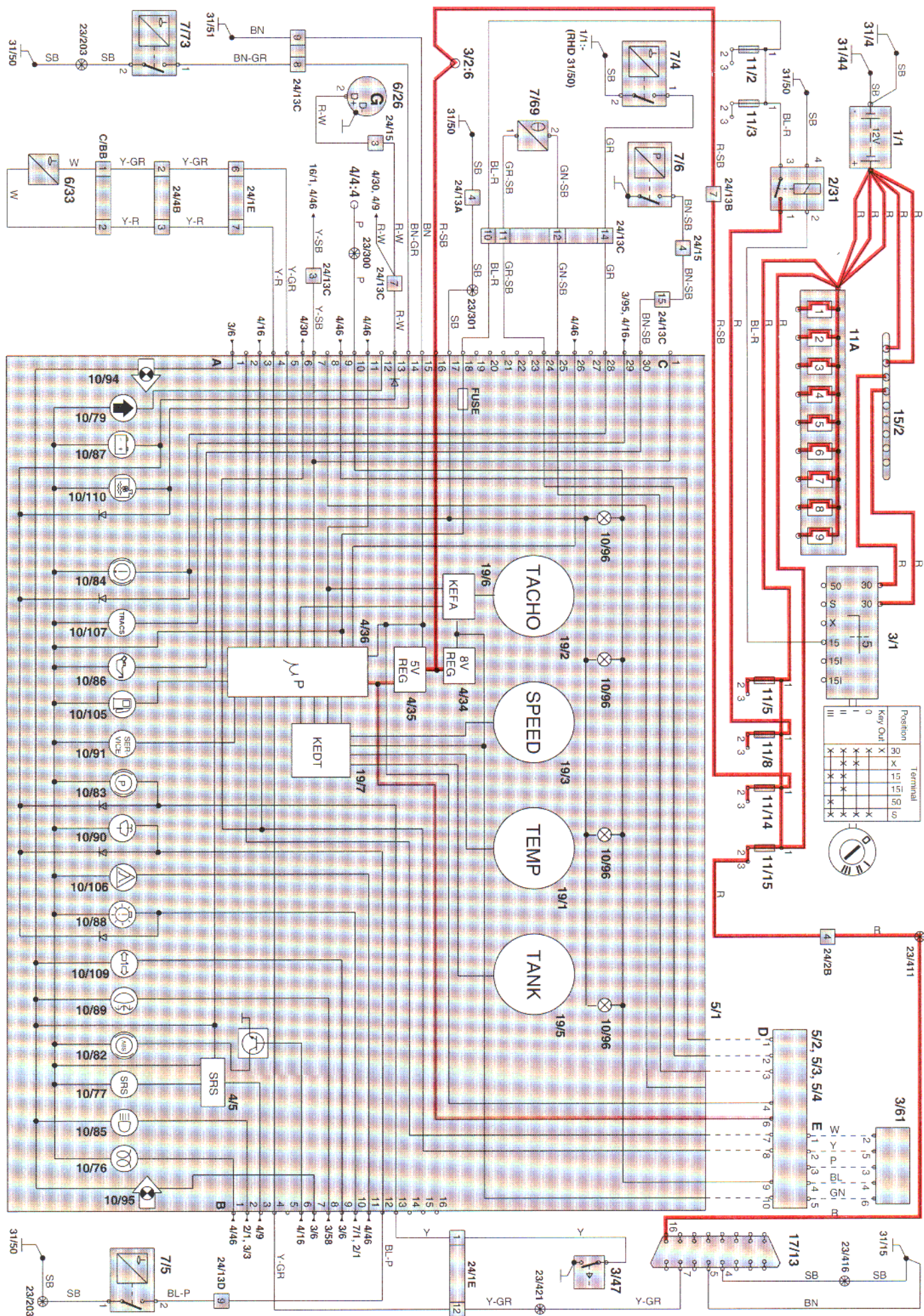
Seat belt and key warning, Australia



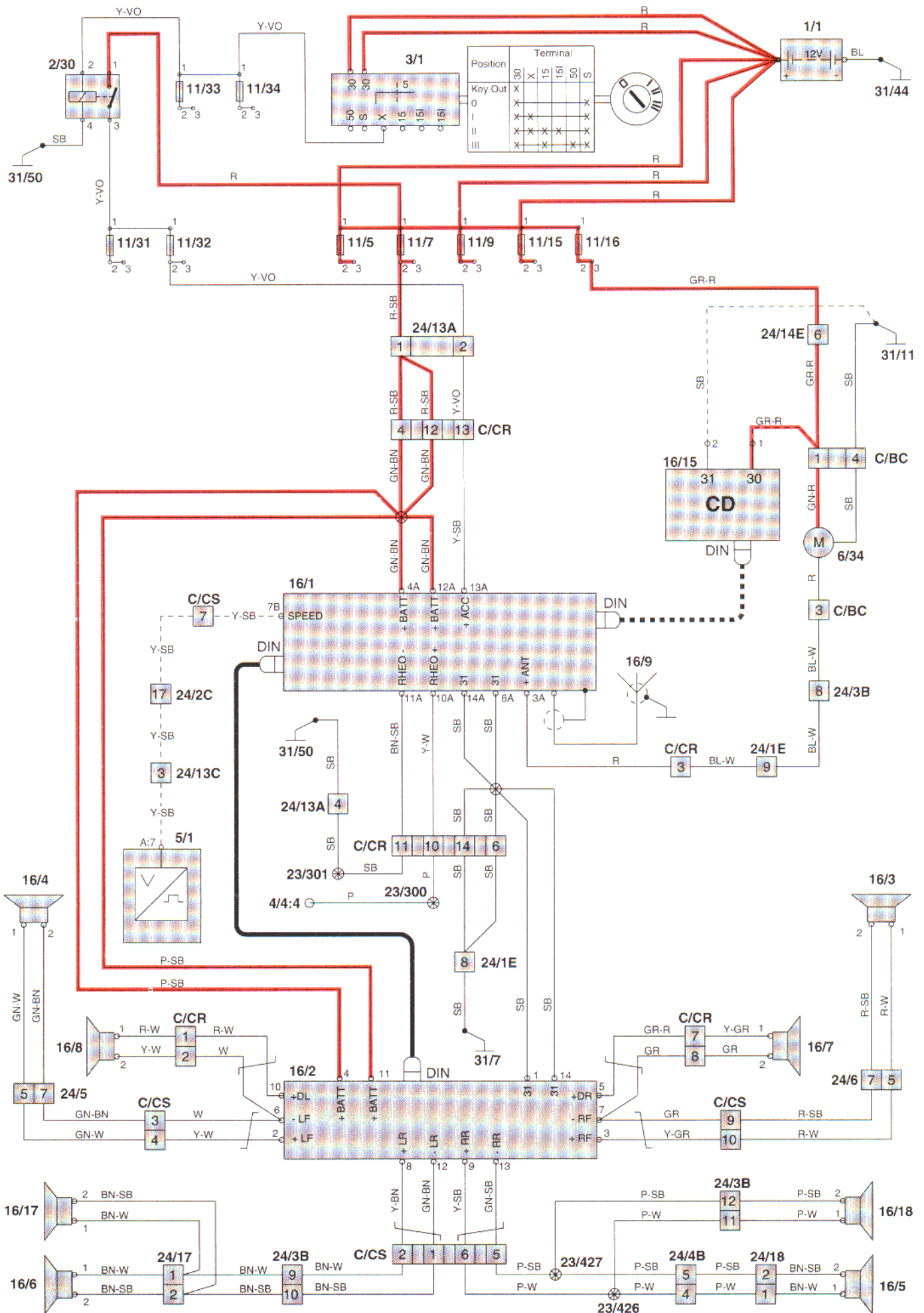
Combined instrument panel VDO



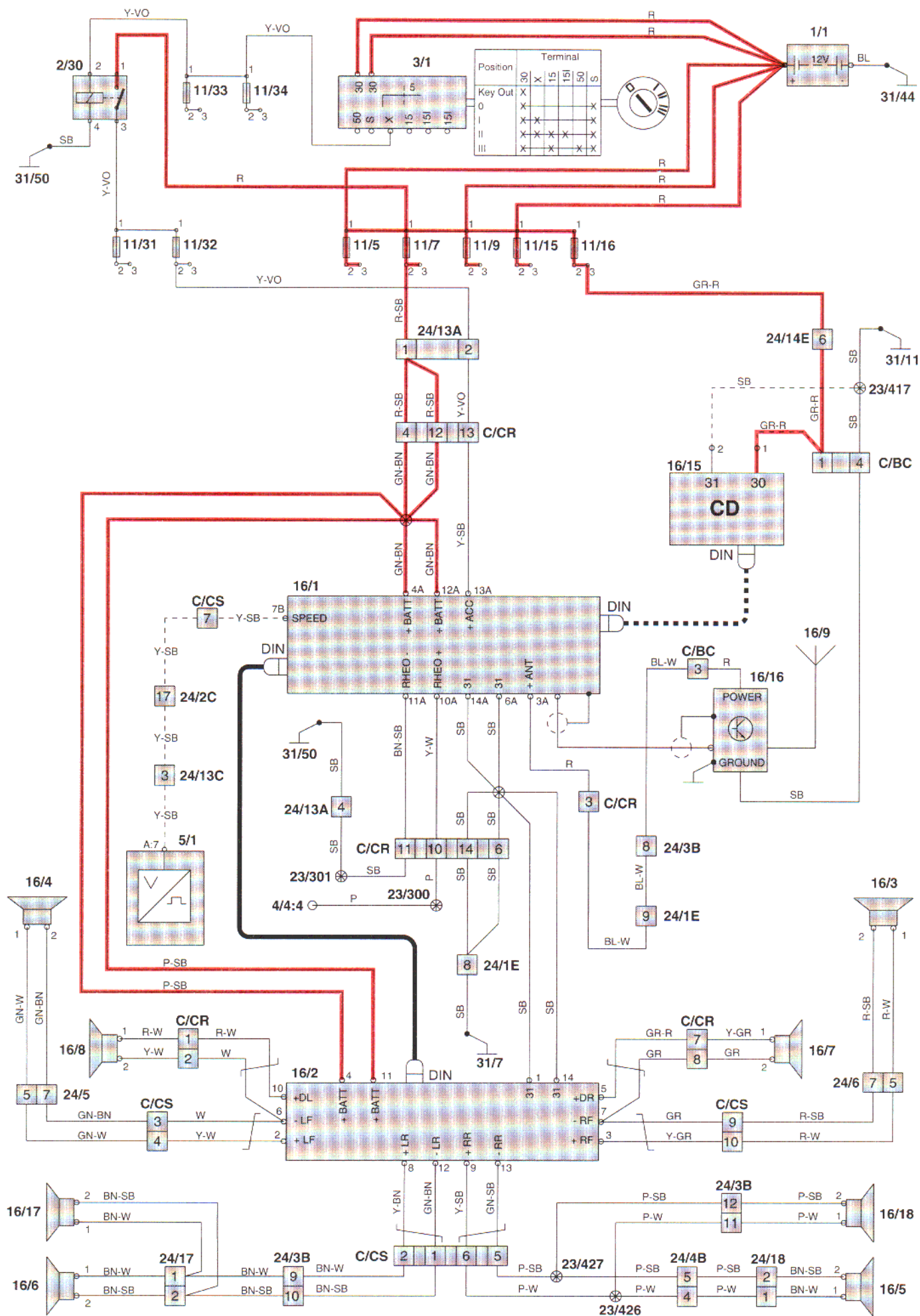
Combined instrument panel VDO, Diesel



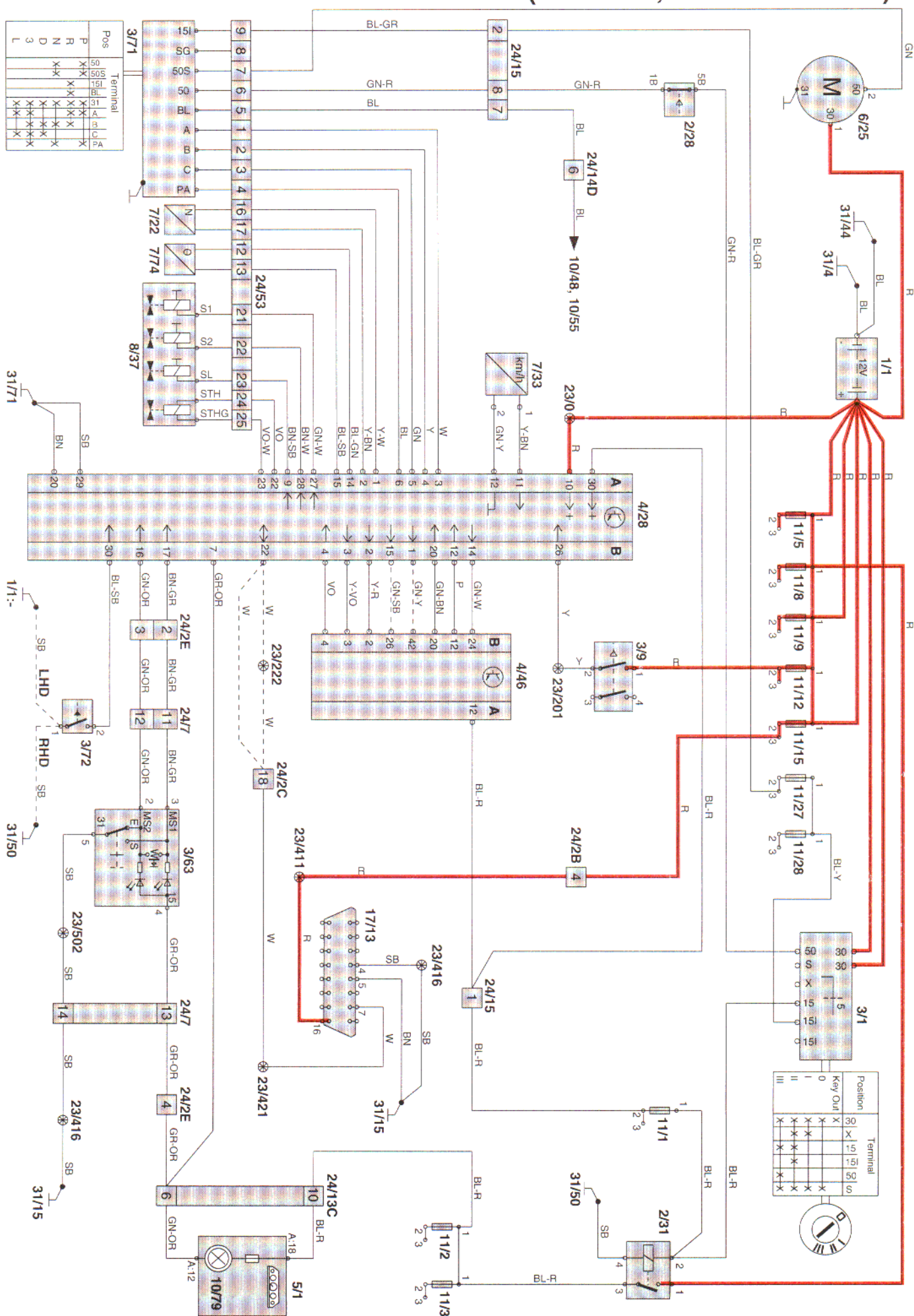
Radio with 4x50 W extra amplifier, 4-door



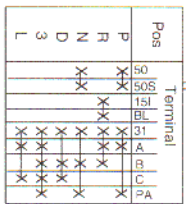
Radio with 4x50 W extra amplifier, 5-door



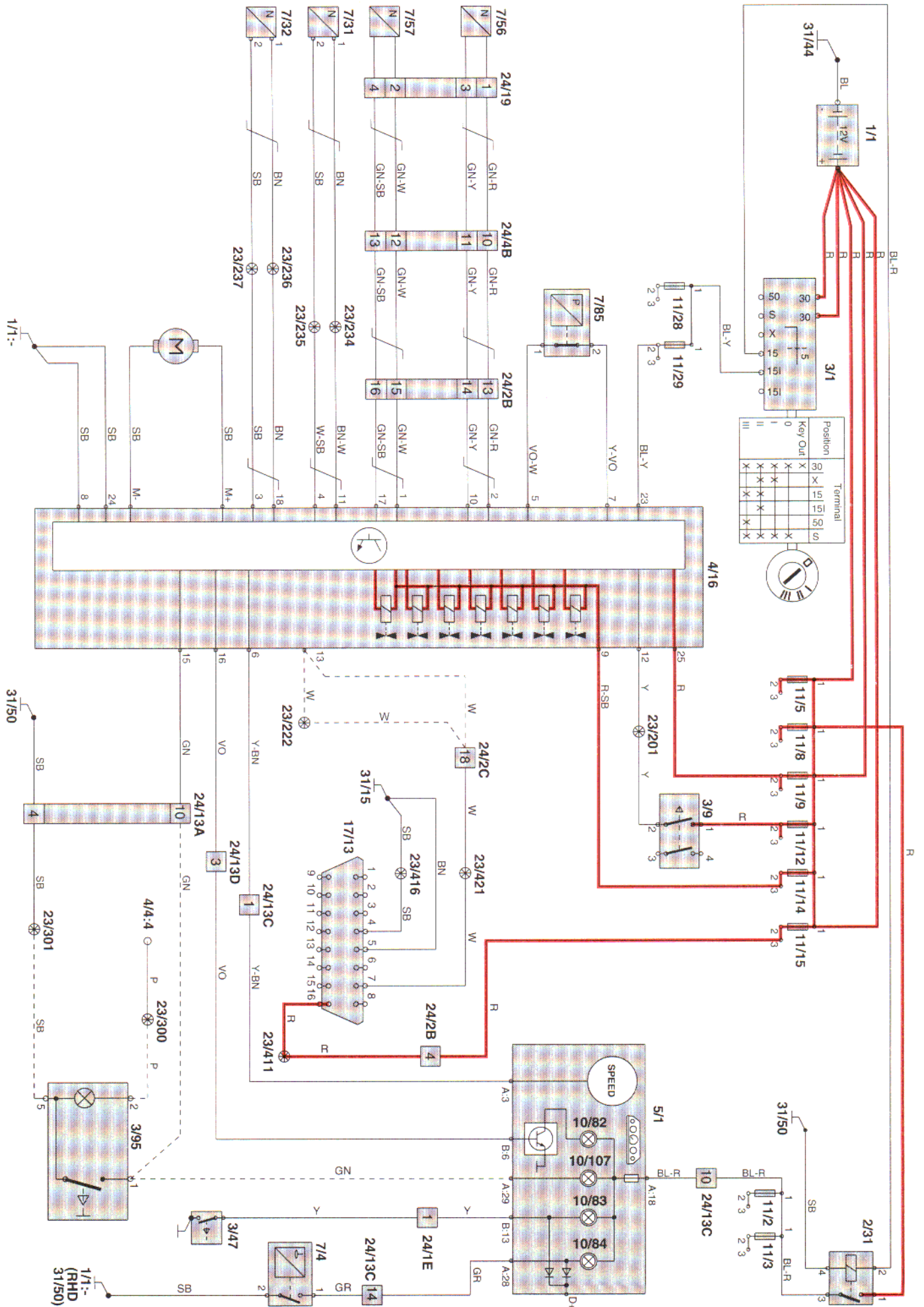
AW 50-42 electronically controlled automatic transmission (Fenix 5.2, Motronic 4.3/4.4)



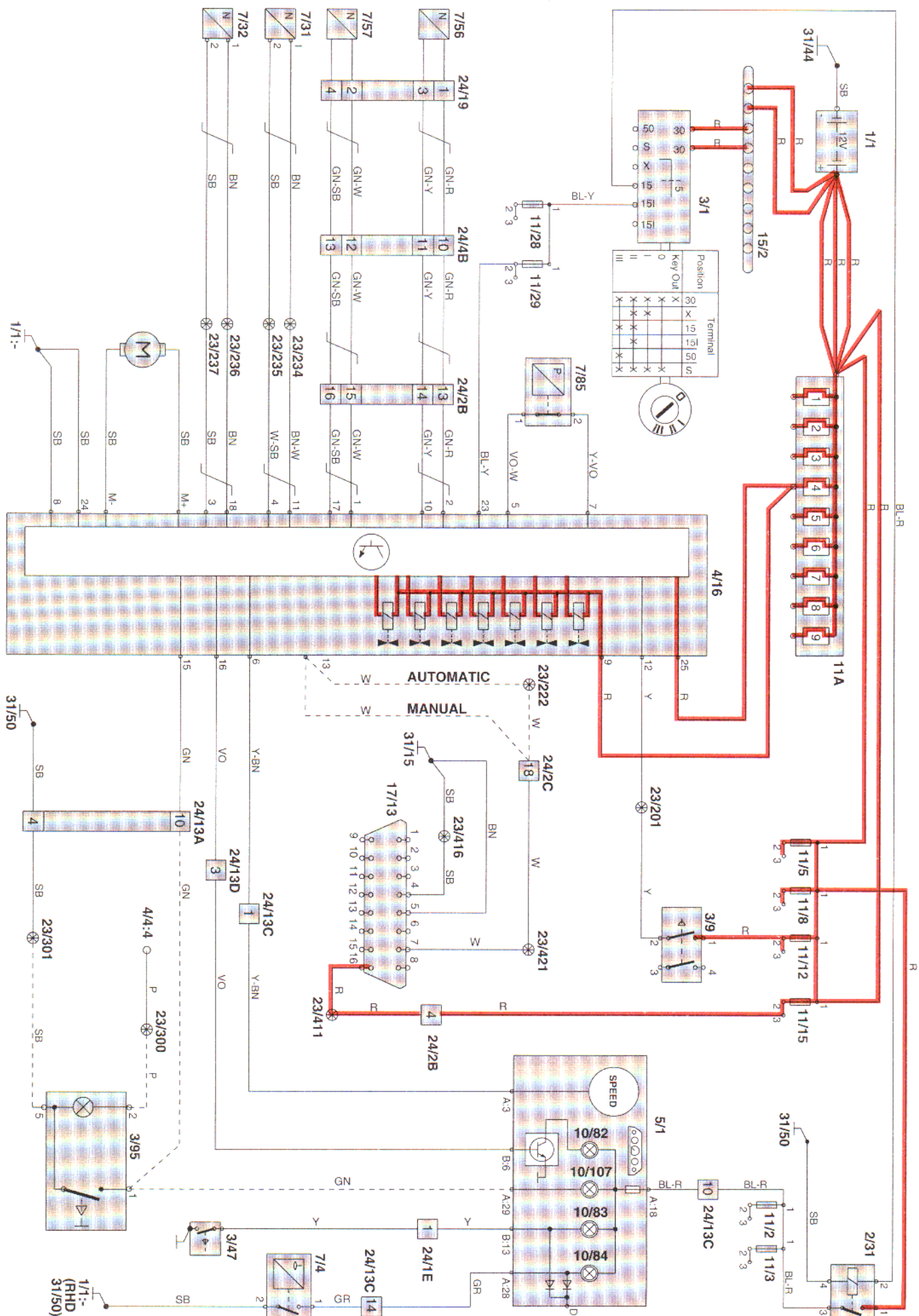
Terminal		Pos
	50	P
	50S	R
	15I	N
	BL	D
	31	3
	A	L
	B	
	C	
	PA	



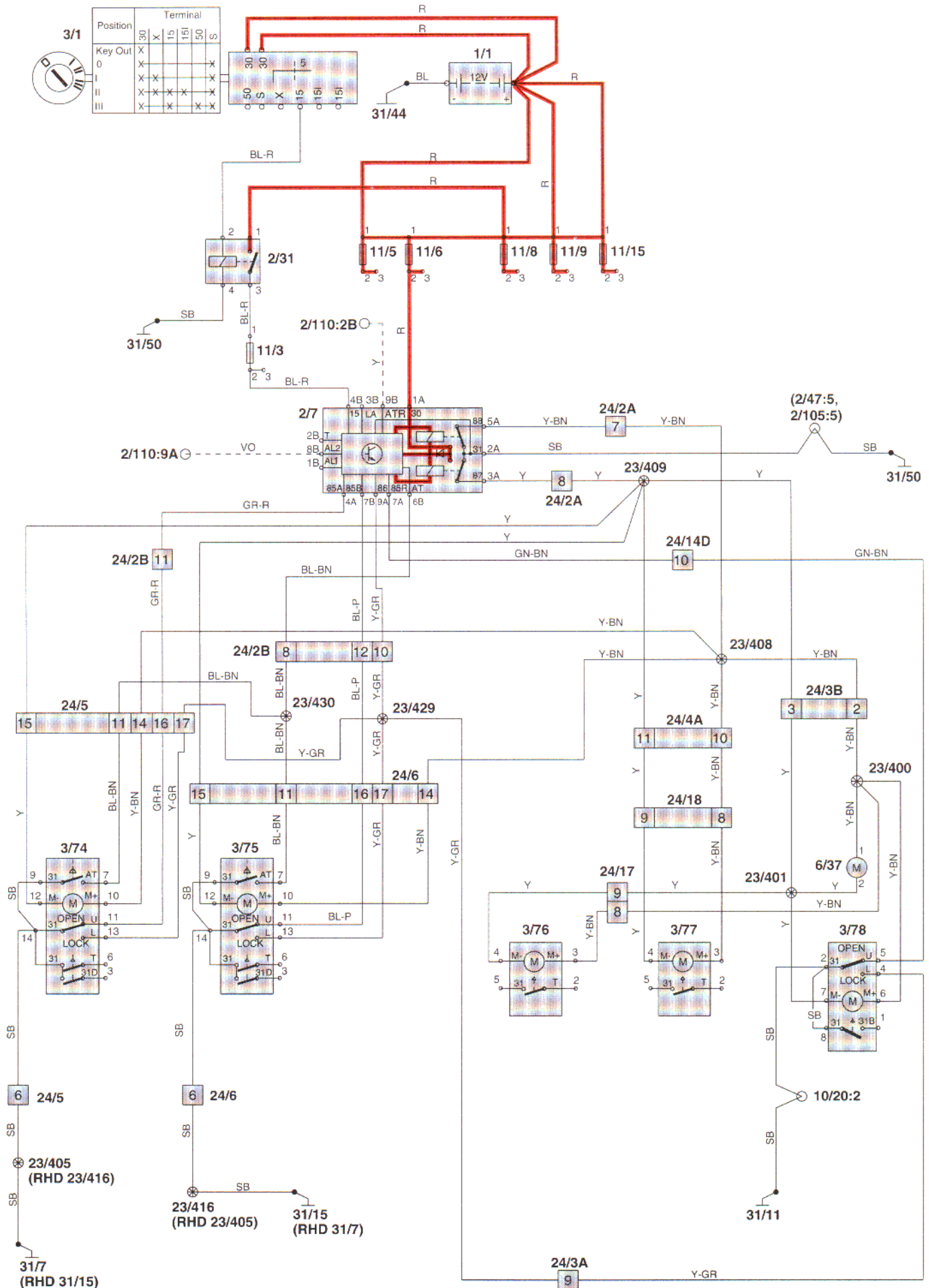
ABS Brake system and TRACS



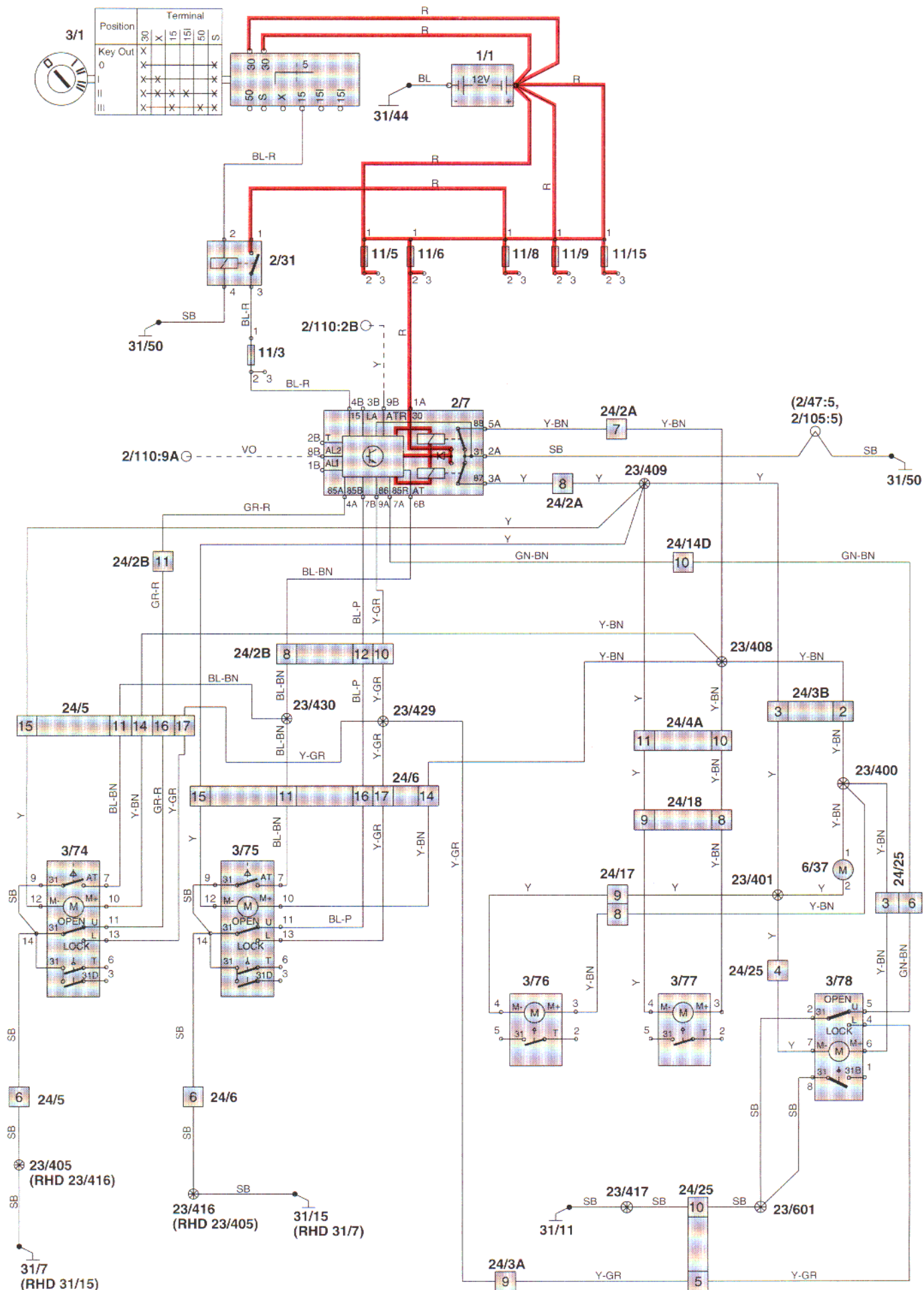
ABS Brake system and TRACS, Diesel



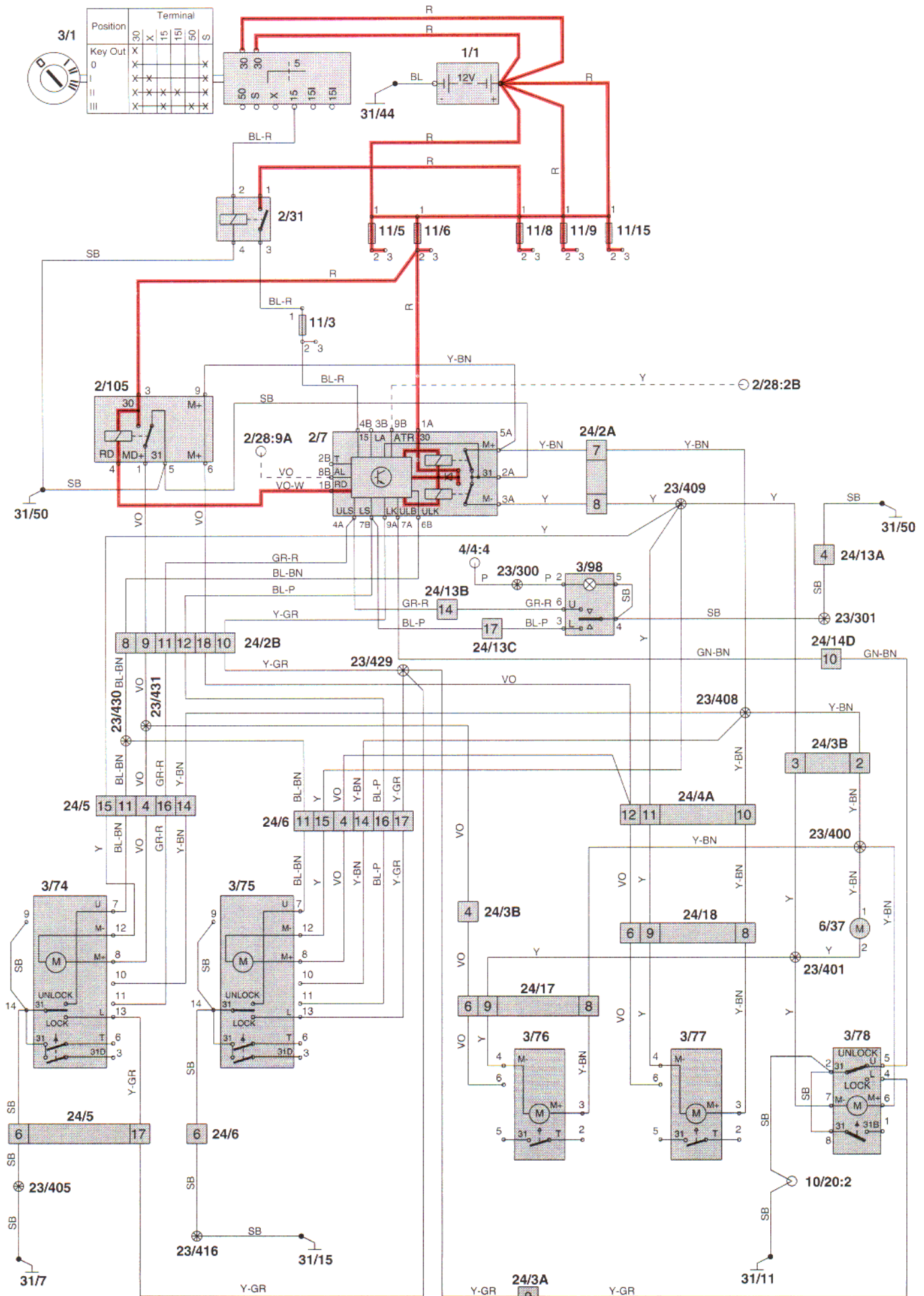
Central locking, 4-door



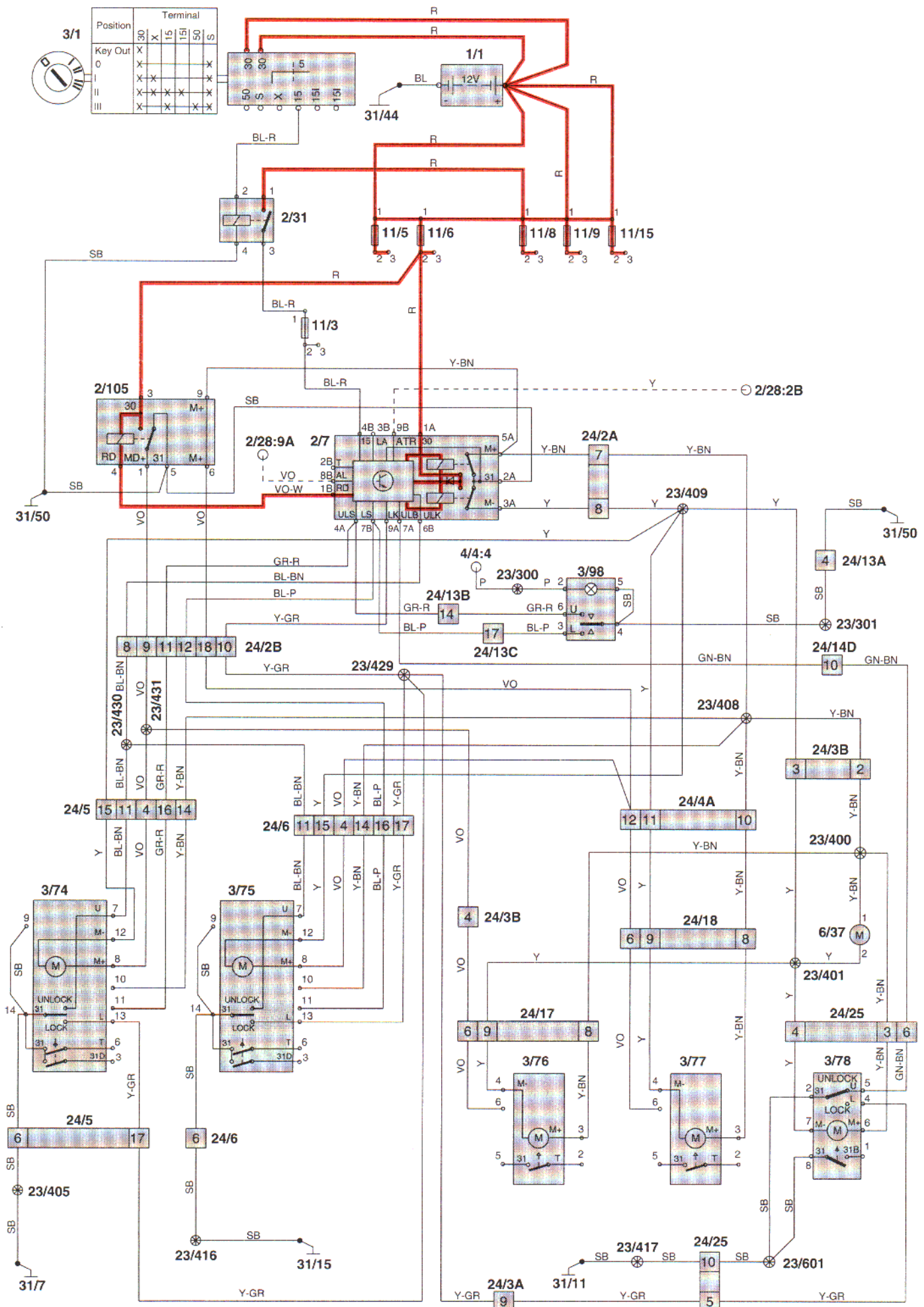
Central locking, 5-door



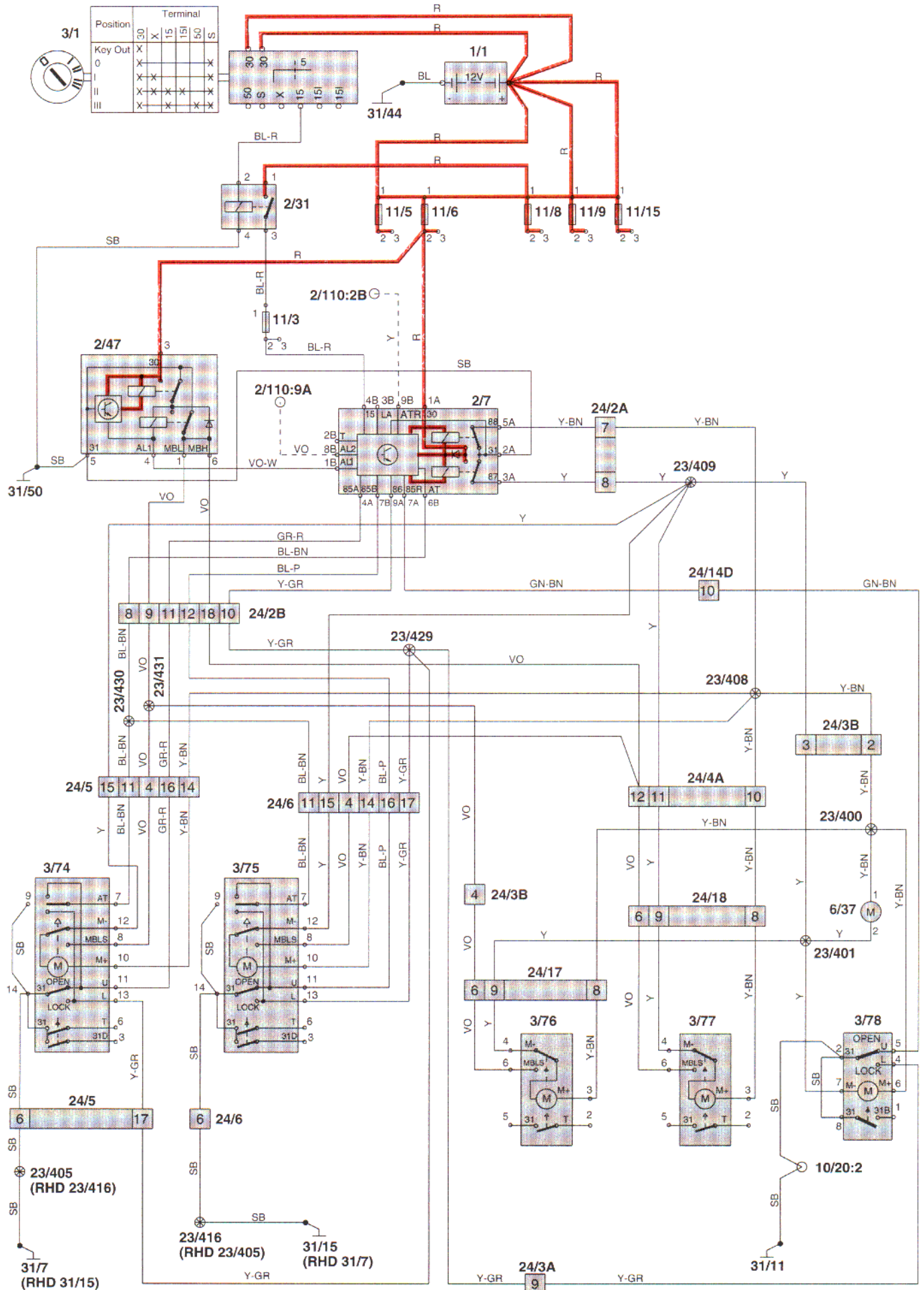
2-stage central locking, 4-door



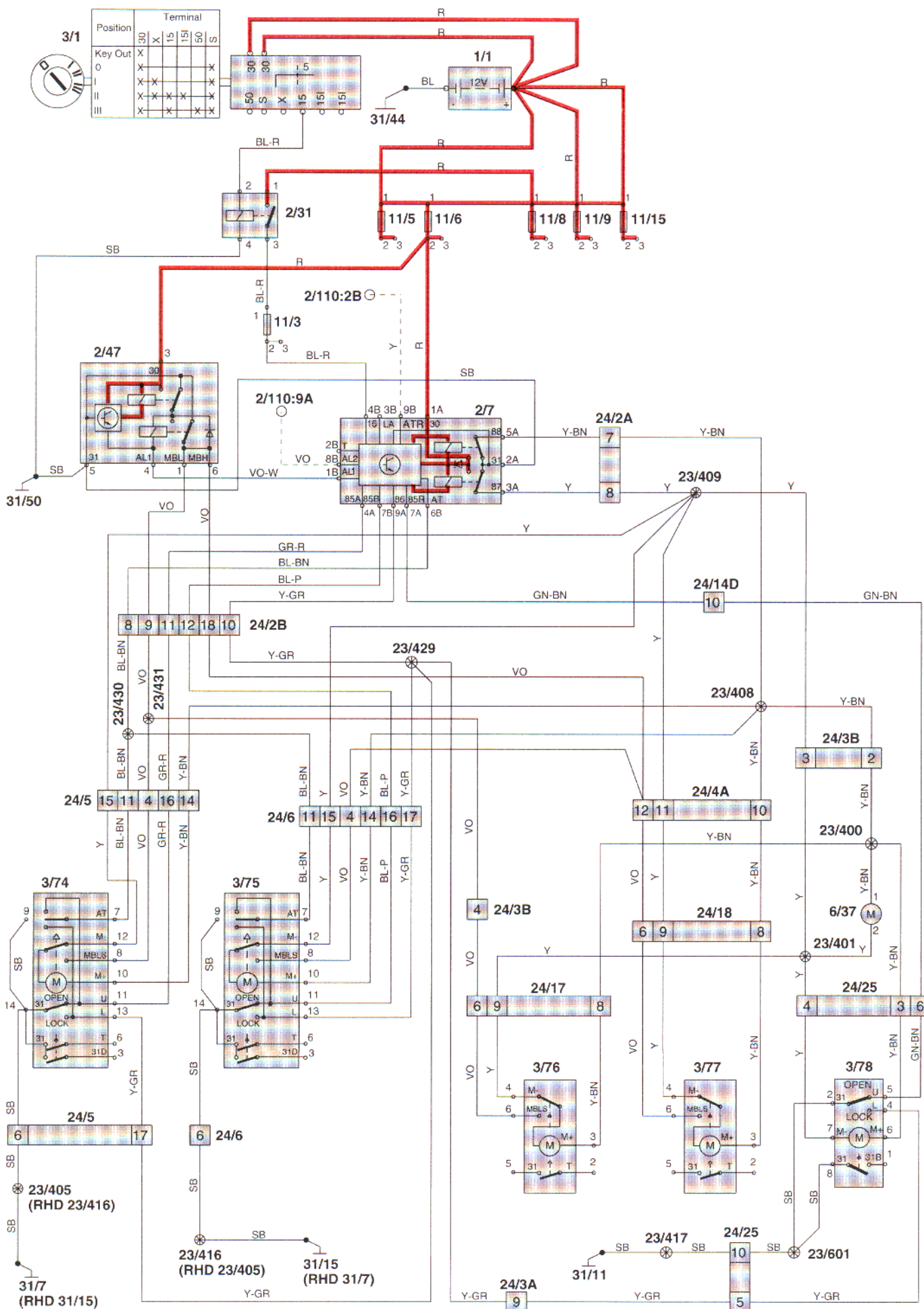
2-stage central locking, 5-door



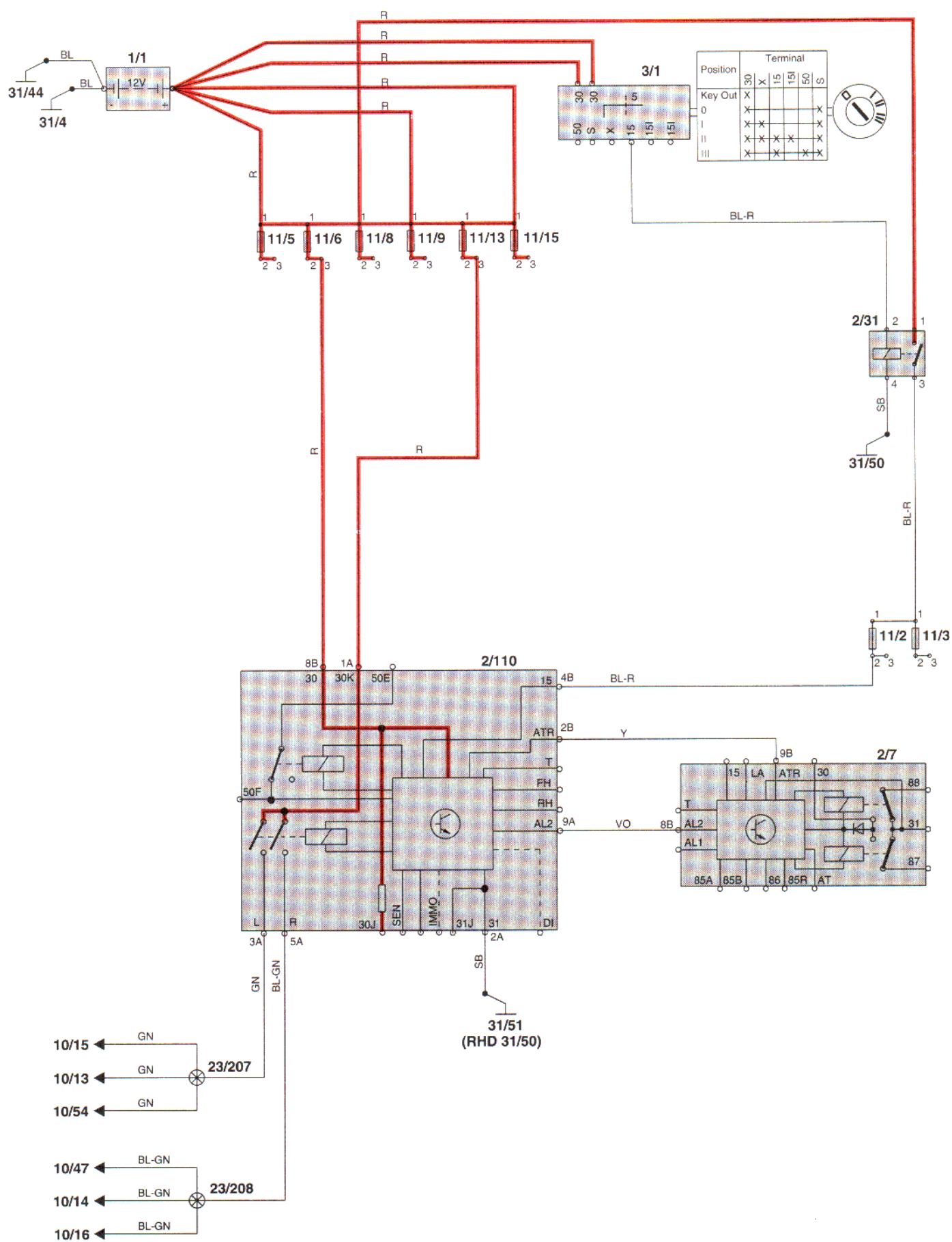
Central locking with deadlock, 4-door



Central locking with deadlock, 5-door



Remote control central locking



Component list

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2/1	Main headlight relay with bulb failure warning sensor	7/4	Brake fluid level sensor
2/5	Seat belt reminder/key warning relay	7/5	Washer fluid level sensor
2/7	Central locking/delayed inner lighting relay	7/6	Oil pressure sensor
2/11	Engine cooling fan relay	7/8	A/C pressure sensor
2/14	Glow automatics relay	7/12	ECC solar sensor and indication LED
2/15	Relay, exhaust temperature sensor		alarm/electronic immobilizer
2/22	A/C relay	7/15	Heated oxygen sensor (HO2S), front
2/23	Fuel pump relay	7/16	Engine coolant temperature sensor ECT+
2/28	Alarm relay	7/17	Mass air flow (MAF) sensor/mass air flow sensor
2/30	Overload relay X+		Camshaft position sensor (CMP)
2/31	Overload relay 15+	7/21	Tachometer
2/32	Main relay, fuel system	7/22	Knock sensor (KS), rear
2/47	Relay, deadlock setting	7/23	Knock sensor (KS), front
2/53	Relay, secondary air pump	7/24	Pulse sensor
2/60	Overload relay X+	7/25	ABS sensor, front left
2/74	Extra heater relay	7/31	ABS sensor, front right
2/105	Driver door, 2-stage central locking relay	7/32	Speedometer
10	Remote control central locking/indication LED	7/33	Antenna ring
	electronic immobilizer relay	7/39	PTC resistor, pre-heater
	Ignition switch	7/47	Accelerator pedal sensor
	Light switch	7/51	Pressostat A/C
	Switch, turn signal/high and low beam	7/53	Throttle position (TP) sensor
	Controls, cruise control	7/54	ABS sensor, rear left
	Switch, hazard lights with flasher relay	7/56	ABS sensor, rear right
	Stop (brake) light switch	7/57	Outside temperature sensor, trip computer
8	Contact, brake pedal	7/69	Boost pressure sensor
9	Contact, clutch pedal		Coolant level sensor
7	Handbrake contact	7/71	Oil temperature sensor, automatic transmission
4	REC / A/C switch	7/77	Temperature sensor, intake air
5	A/C panel lights	7/79	Accelerometer
6	Blower fan switch	7/81	Pressure sensor, intake manifold
7	Climate control	7/82	Heated oxygen sensor (HO2S), rear
8	Switch, rear fog light	7/83	High-pressure sensor A/C
1	Controls, trip computer	7/84	Tank pressure sensor
2	Alarm switch, bonnet	7/85	EBD pressure sensor
3	Program selector, automatic transmission	7/94	Needle lift sensor
1	Transmission range sensor	7/95	High Altitude sensor
2	Kick-down switch, throttle control	7/100	Tilt sensor
4	Lock module, front left	7/101	Breaking glass sensor
5	Lock module, front right	7/105	Outer temperature sensor engine control module
6	Lock module, rear left	8/3	Solenoid switch A/C
7	Lock module, rear right	8/5	IAC idling valve
8	Lock module, trunk/taillgate	8/6-10	Injectors
3	Seat belt lock, left front seat	8/17	EGR converter
4	Seat belt lock, right front seat	8/18	EVAP valve
5	Switch, TRACS	8/28	Turbo control valve
8	Switch, central locking	8/37	Solenoids, automatic transmission
	Control module, cruise control	8/43	Solenoid, aux. air intake
	Rheostat	8/44	Canister valve
	Safety circuit SRS	8/45	Solenoid, variable intake manifold
	SRS sensor unit	8/49	Stop solenoid
0	Control module, EZK (DI) ignition system	8/50	Pre-setting valve
5	DI power stage and ignition coil	9/26-28	Extra heater
6	ABS control module	10/1	Left front light
2	Electronic immobilizer	10/2	Right front light
8	Control module, AW 50-42 automatic transmission	10/13	Left turn signal, front
	Control module, left front seat	10/14	Right turn signal, front
9	Control module, ECC	10/15	Left side flasher light
4/30	Voltage regulator, 8 volts	10/16	Right side flasher light
4/34	Voltage regulator, 5 volts	10/20	License plate lighting
4/35	Combined instrument panel microprocessor	10/22	Courtesy light
4/36	Control module, right front seat	10/24	Trunk lighting
4/44	DI power stage and ignition coil	10/26	Reading light, rear left
4/45	Control module, LH-Jetronic 3.2 MFI	10/27	Reading light, rear right
4/46	Engine control module	10/29	Glove compartment lighting
5/1	Combined instrument panel	10/30	Open-door warning lamp, front left
5/2	Clock module	10/31	Open-door warning lamp, front right
5/3	Outside temperature/clock module	10/32	Open-door warning lamp, rear left
5/4	Trip computer	10/33	Open-door warning lamp, rear right
6/25	Starter motor	10/47	Lamp, right turn signal, rear
6/26	Generator	10/48	Right back-up (reversing) light
6/29	Engine cooling fan	10/54	Lamp, left turn signal, rear
6/31	Fuel pump/fuel injection pump	10/55	Left back-up (reversing) light
6/33	Fuel level sensor	10/64	Right high beam
6/33L	Left fuel level sensor	10/66	Right low beam
6/33R	Right fuel level sensor	10/68	Left high beam
6/34	Power antenna		
6/37	Central locking motor, tank cap		
6/54	Secondary air pump		

Comments

To
VOLVO CAR CORPORATION
Aftersales
Dept. 57731 SAA1
S-405 08 GÖTEBORG

From

Telefax +46 31 59 23 53

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

Fuses

No.	Function	Ampere
1	LH 3.2 Multiport fuel injection (MFI) EZ 129 K Distributor ignition (DI), Motronic 4.3/4.4 SFI, Fenix 5.2 Multiport fuel injection (MFI) system Main relay, Fenix 5.2 fuel system (MFI) Automatic transmission	15
2	Fuel pump, Alarm relay, Remote control central locking/indication LED relay Electronic Immobilizer	15
3	Exhaust temp. sensor (Japan), Interior lighting	10
4	Electronic Immobilizer	10
5	Blower fan, speed 4	30
6	Central locking, Deadlock locking relay, Alarm relay, Remote control central Electronic Immobilizer Driver door, 2-stage central locking relay	25
7	Radio	15
8	Electronic Immobilizer	10
9	ABS Anti-lock braking system	30
10	Heated rear seat	15
11	Heated rear window, Heated door mirrors	30
12	Stop (brake) lights	10
13	Turn signal/hazard lights, High beam flasher, Alarm relay, Remote control central locking/(indication LED electronic immobilizer)	15
14	ABS relay	30
15	Interior lighting, Glove compartment lighting, Entry lighting, Open-door warning lights, Trunk lighting, Seat belt reminder, Data link connector (DLC), Tilt sensor	10
16	Power antenna, CD changer, (Trailer socket), (Accessories)	30
17	Key warning, USA, Canada, Korea, Australia	10
18	Front fog lights	15
19	High beam, left	15
20	High beam, right, High beam warning (Accessories)	15
21	Low beam, left	15
21	Low beam, right	15
23	Parking lights, License plate light	10
24	Parking lights, Bulb failure warning sensor	10
25	Rear fog lights, rear fog light warning	10
26	Heated front seats, Power door mirrors	25
27	Back-up (reversing) lights, Turn signal	15
28	+15l-rail (15/4): Heated rear window, Heated door mirrors, Seat belt reminder, Cruise control, Bulb failure warning sensor Germany, Shift-lock automatic transmission, Heated rear seat	10
29	ABS Anti-lock braking system	15
30	Cigarette lighter	10
31	Blower fan, speeds 1-3, Climate unit, Recirculation	25
32	Radio	10
33	+X-rail (15/8): Beam length control, Tailgate wash/wipe	15
34	Windshield wiper/washer, Horn, Headlight wiper/washer	25
35	Instrument and control lighting, Cigar lighter lighting, Ashtray lighting, Rheostat, Power sunroof, (Accessories)	10
36	Alarm siren	10
Automatic fuses		
37	Power windows, Power sunroof	
38	Spare	
39	Power seat, left	
40	Power seat, right	

Fuses, 11/1-40, in central electrical unit

No.	Function	Ampere
1	Engine control module	15
2	Alarm relay, Remote control central locking/indication LED electronic immobilizer	15
3	Interior lighting	10
4	Electronic Immobilizer	10
5	Blower fan, speed 4	30
6	Central locking, Deadlock locking relay, Alarm relay, Remote control central locking/indication LED electronic immobilizer	25
7	Radio	15
8	Electronic Immobilizer	10
9	-	
10	Heated rear seat	15
11	Heated rear window, Heated door mirrors	30
12	Stop (brake) lights	10
13	Turn signal/hazard lights, High beam flasher, Alarm relay, Remote control central locking/indication LED electronic immobilizer	15
14	-	
15	Interior lighting, Glove compartment lighting, Entry lighting, Open-door warning lights, Trunk lighting, Seat belt reminder, Data link connector (DLC), Tilt sensor	10
16	Power antenna, CD changer, (Trailer socket), (Accessories)	30
17	-	
18	Front fog lights	15
19	High beam, left	15
20	High beam, right, High beam warning (Accessories)	15
21	Low beam, left	15
21	Low beam, right	15
23	Parking lights, License plate light	10
24	Parking lights, Bulb failure warning sensor	10
25	Rear fog lights, rear fog light warning	10
26	Heated front seats, Power door mirrors	25
27	Back-up (reversing) lights, Turn signal	15
28	+15I-rail (15/4): Heated rear window, Heated door mirrors, Seat belt reminder, Cruise control, Bulb failure warning sensor Germany, Heated rear seat	10
29	ABS Anti-lock braking system	15
30	Cigarette lighter	10
31	Blower fan, speeds 1-3, Climate unit, Recirculation	25
32	Radio	10
33	+X-rail (15/8): Beam length control, Tailgate wash/wipe	15
34	Windshield wiper/washer, Horn, Headlight wiper/washer	25
35	Instrument and control lighting, Cigar lighter lighting, Ashtray lighting, Rheostat, Power sunroof, (Accessories)	10
36	Alarm siren	10
Automatic fuses		
37	Power windows, Power sunroof	
38	Spare	
39	Power seat, left	
40	Power seat, right	

Fuses, Diesel

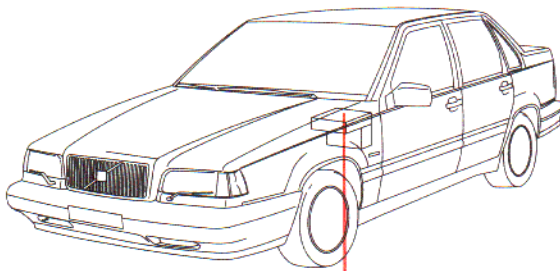
Fuses, 11A, in relay/fuse box in engine compartment

No.	Function	Ampere
11A/1	Engine cooling fan relay	60
11A/2	-	
11A/3	Extra heater relay	50
11A/4	ABS control module	50
11A/5	Main headlight relay with bulb failure warning sensor	50
11A/6	-	
11A/7	-	
11A/8	Fuse 11B/1 Fuses 11B/2, 11B/3 and 11B/4, via main relay fuel injection system	60
11A/9	Glow plugs 1-5, via glow automatic relay	80

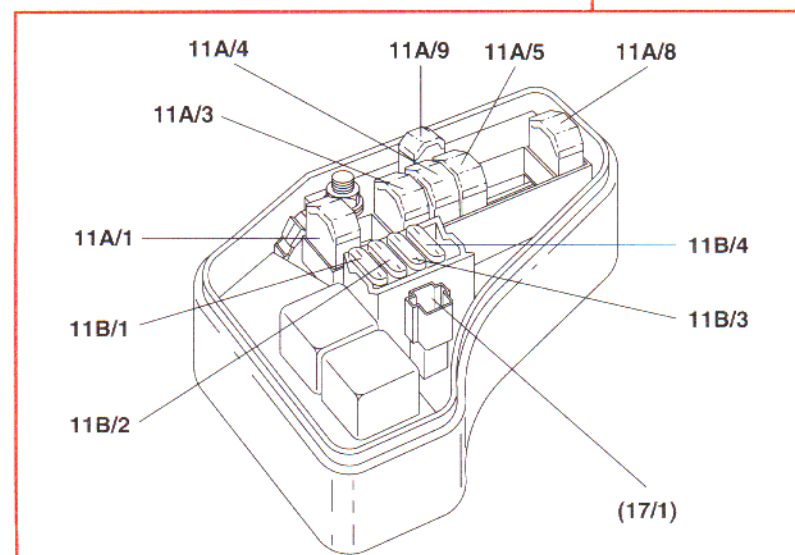
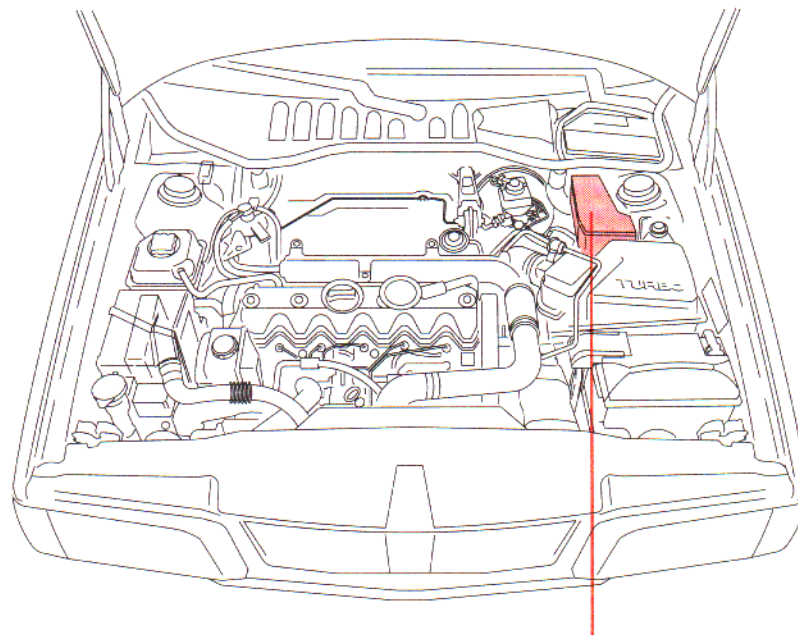
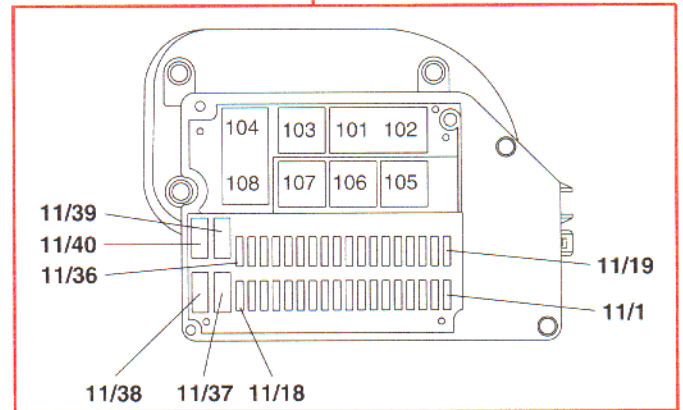
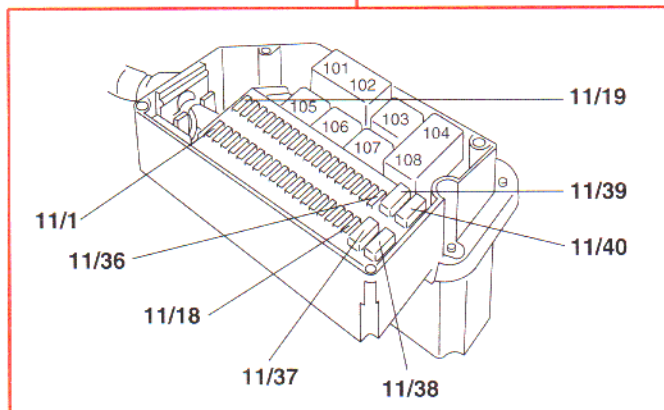
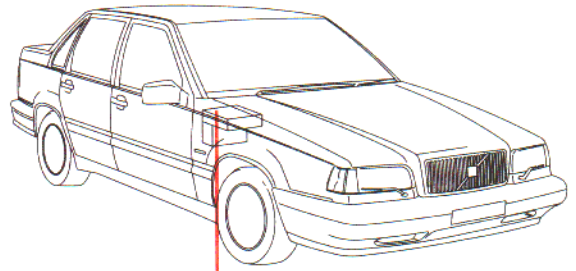
Fuses, 11B, in relay/fuse box in engine compartment

No.	Function	Ampere
11B/1	Automatic transmission	10
11B/2	Engine control module Fuel injection pump Pre-setting valve	10
11B/3	Glow automatics relay Extra heater relay Turbo control valve EGR converter PTC resistor, pre-heater	15
11B/4	Automatic transmission	10
11B/5	-	

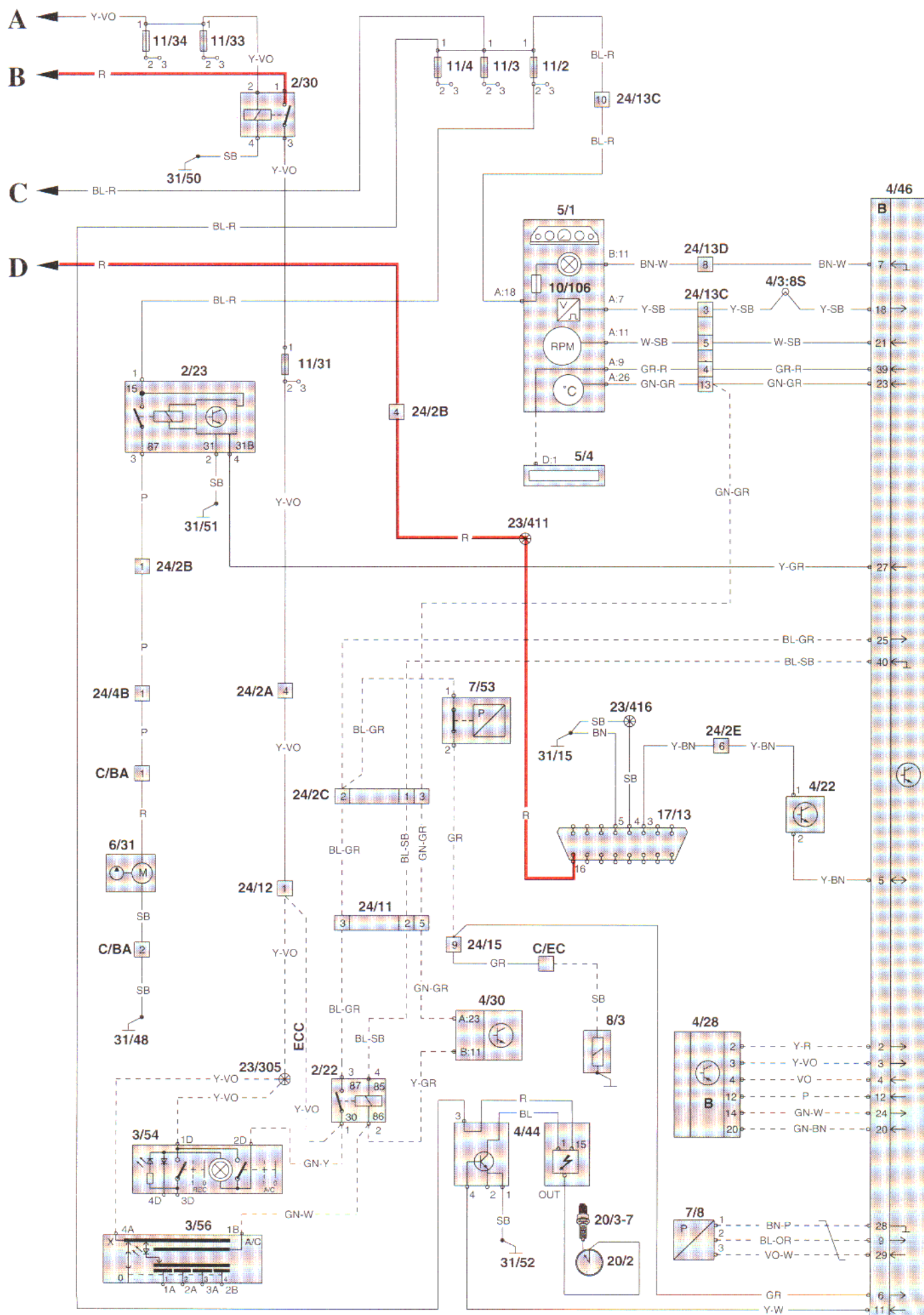
LHD



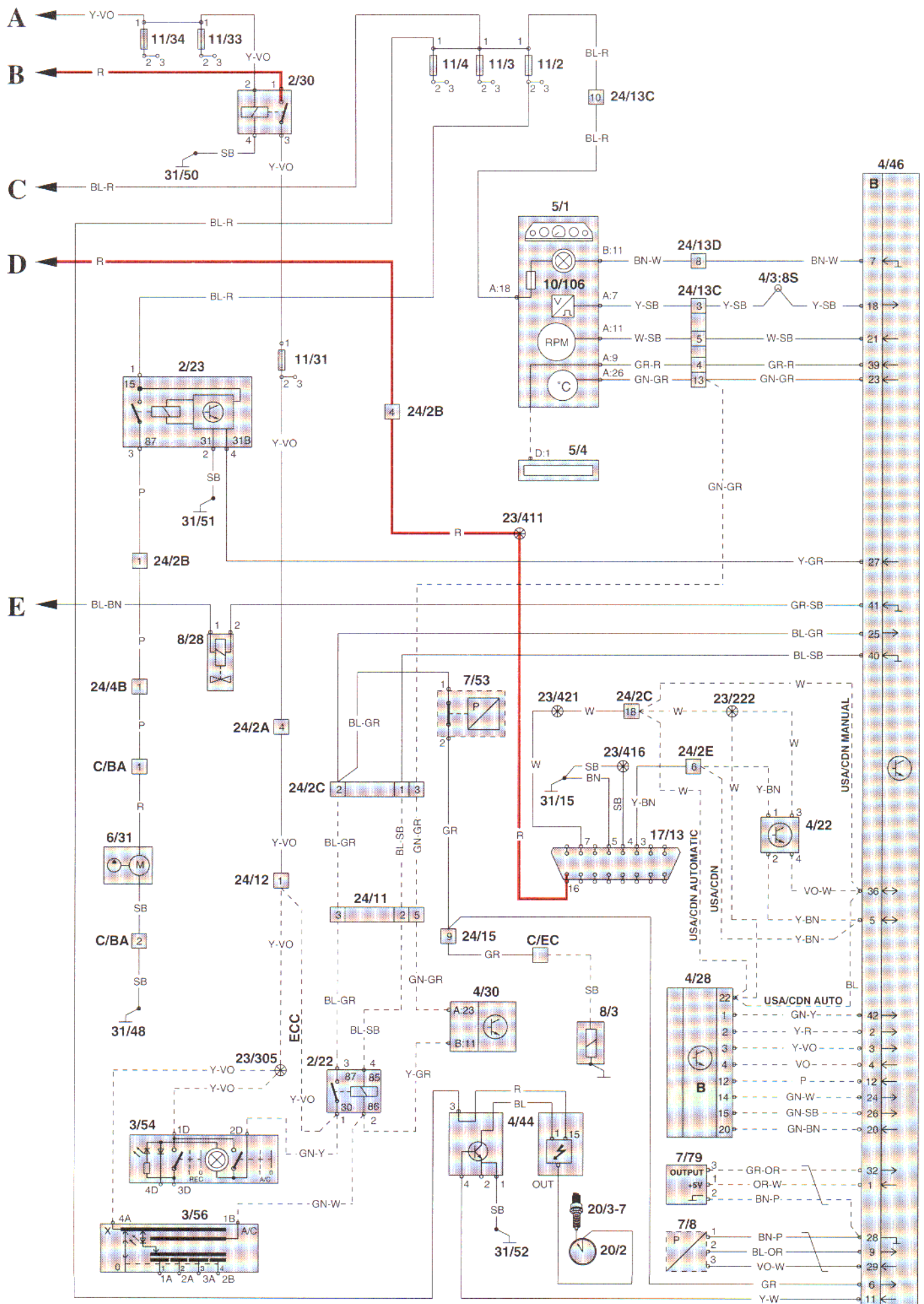
RHD



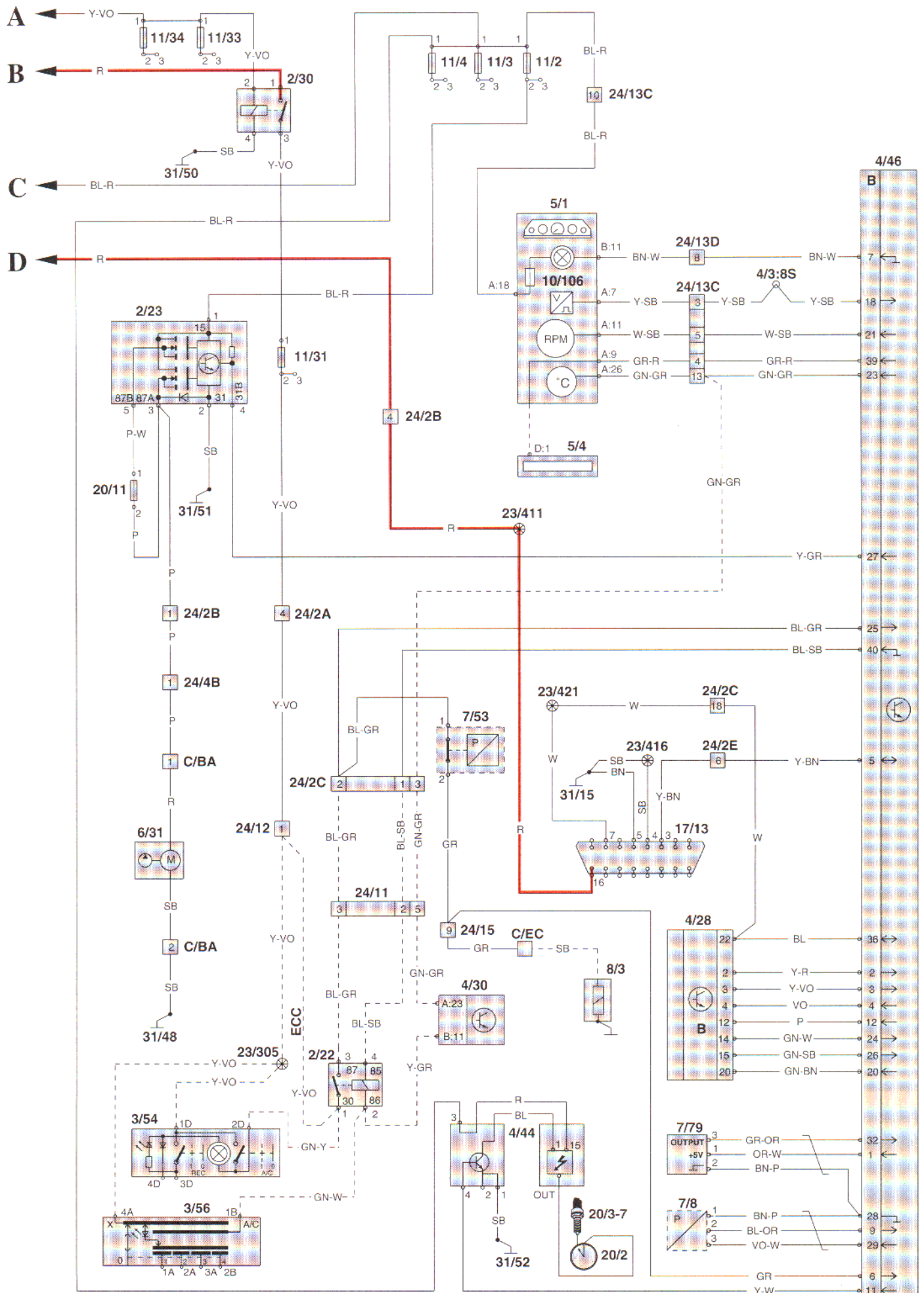
Multiport fuel injection (MFI) system, Fenix 5,2



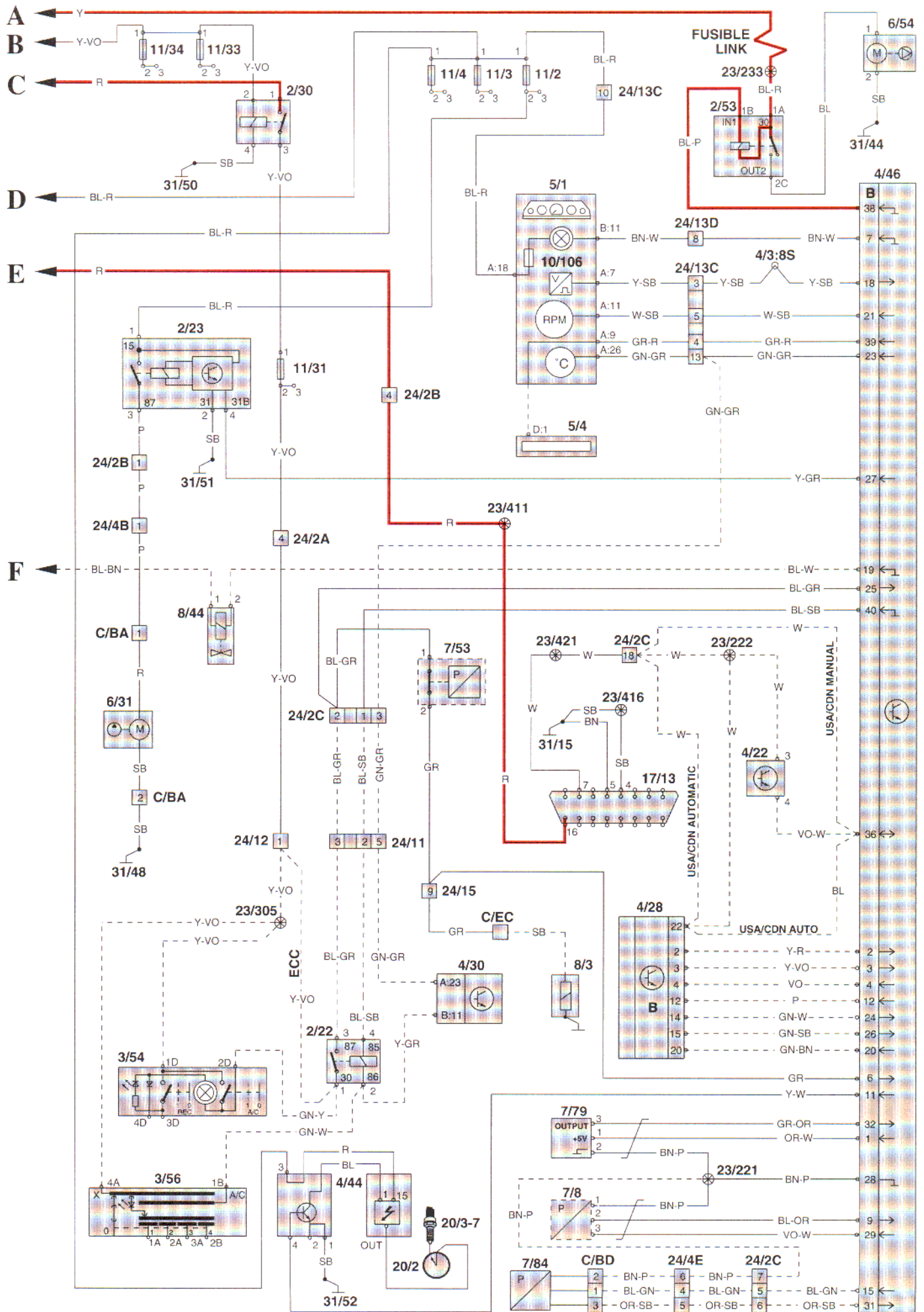
Sequential fuel injection (SFI) system Motronic 4.3 (B 5204 T, B 5234 T)



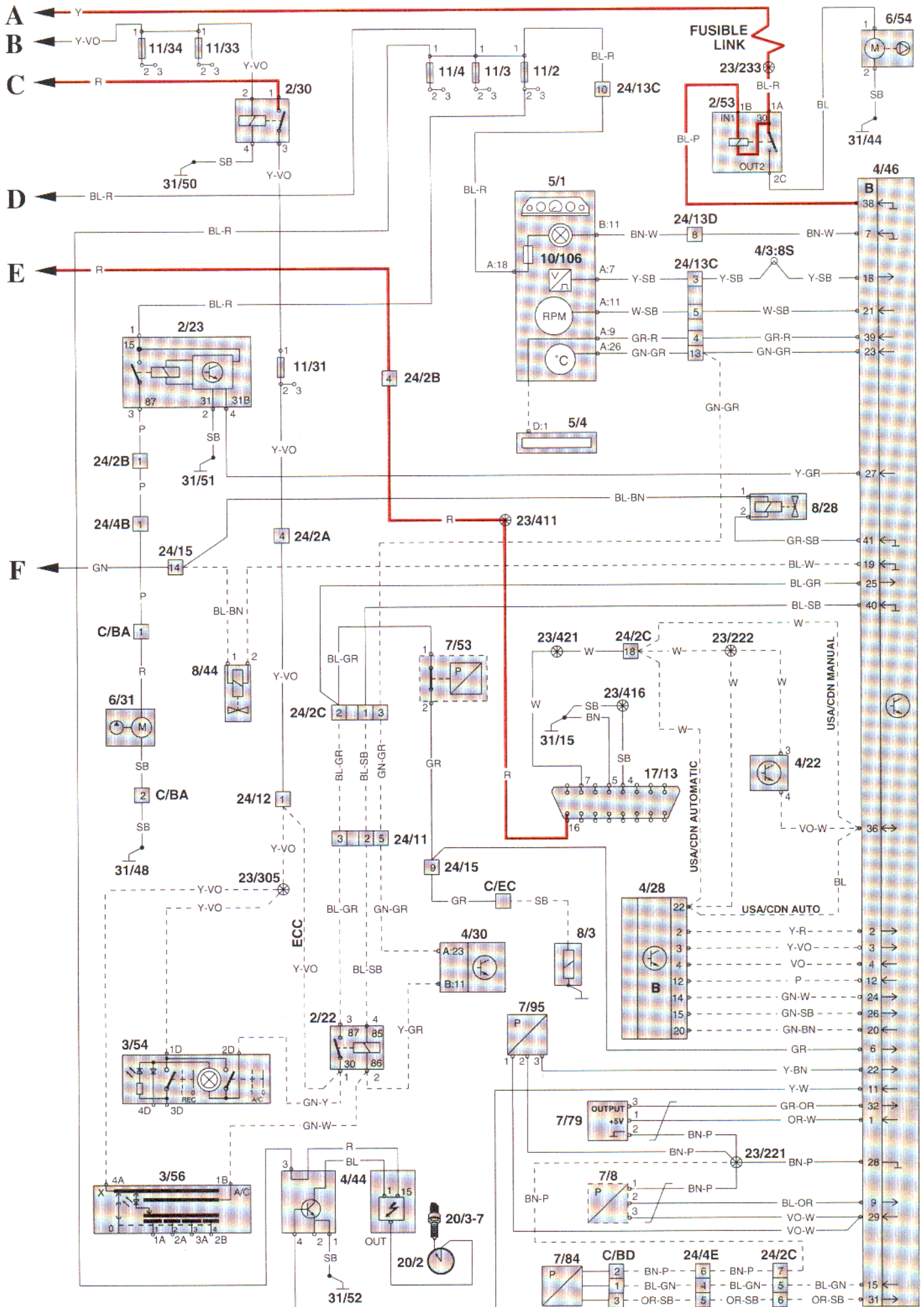
Sequential fuel injection (SFI) system, Motronic 4.3 (B 5254 S)



Sequential fuel injection (SFI) system, Motronic 4.4 (B 5254 S)



Sequential fuel injection (SFI) system, 4.4 (B 5254 T)



Engine management system MSA 15.7

