

Key to Figs. 12.34 to 12.36

1 Battery	C2	73 Passenger door switch	P4
2 Ignition switch	E3	74 Rear door switch	N6, P6
3 Instrument connection, 3-pole	Z4	75 Passenger seat contact	K4
4 Ignition coil, 12 A	C5	76 Charge air overpressure switch (turbo)	U4
5 Distributor	C4, R4	77 Overdrive switch (M 46)	Y5
6 Spark plug	C4	80 Thermal time switch	B6
7 Instrument connection, 7-pole	Z4	81 AC pressure switch	Z2, AA1
8 Instrument connection, 8-pole	Y4	82 ACC heater fan pressure switch	AA2
9 Starter motor	C3	83 In-car temperature sensor	AA2
10 Alternator with built-in regulator	B3	84 Water temperature sensor	Q1, Q5, U2, V3
11 Fusebox	C1, E1, H1	85 Speedometer	F4
12 Instrument connection, 12-pole	Y4	86 Tachometer	F4
13 Main beam bulb, 60 W	A2, A5, A6	87 Clock	E4
14 Dipped beam bulb, 55 W	A2, A6	88 Coolant temperature gauge	F4
15 Central electrical unit, terminal 15	W4	89 Fuel gauge	E4
16 Parking light, 4 cp/5 W (USA: also tail)	A1, A6, L1, L6	90 Voltmeter	E4
17 Day running light, 32 cp/21 W	A1, A6	93 Voltage regulator	G4
18 Turn signal 32 cp/21 W	A1, A6, L1, L6, M1, M6	94 Rheostat, instrument and control lighting	F4
19 Back-up (reversing) light 32 cp/21 W	L1, L6, M1, M6	95 Instrument lighting	F4
20 Rear foglight, 32 cp/21 W	L1, L6, M1, M6	96 Oil level lamp	E4
21 Tail light 4 cp/5 W	L1, L6, M1, M6	97 Oil pressure lamp	E4
22 Brake light, 32 cp/21 W	L1, L6, M1, M4, M6	98 Choke/turbo boost lamp (exhaust gas temp)	E4
23 Foglight (spotlight), 55 W	Z6, AA6	99 Handbrake lamp	F4
24 Numberplate light, 4 cp/5 W	M3, M4	100 Brake failure warning lamp	F4
25 Courtesy light	P5	101 Washer fluid level lamp	F4
26 Reading light, front	P5	102 Gear shift indicator lamp/AW 70/71 overdrive lamp	F4
27 Courtesy light	P5	103 Bulb failure lamp	F4
28 Reading light, rear	N5, P5	104 Glow plug/ETC sensor lamp	F4
29 Positive terminal	D3	105 Battery charge lamp	E5
30 Central electrical unit, terminal 30	W4	106 Not connected	E5
31 Ground connection, central electrical unit	W3	107 Exhaust gas temp., ABS	E5
32 Glove box light	N4	108 Direction indicator lamp, left	F5
33 Ashtray light, front	F3	109 High beam lamp	F5
34 Ashtray light, rear	K4	110 Direction indicator lamp, right	F5
35 Sun roof switch light	F3	111 Indicator lamp, EGR	F5
36 Passenger seat heater switch	K4	112 Overdrive (M 46) indicator lamp	F5
37 Gear selector light (automatic)	J4	113 Fasten seat belt light, front	F5, X2
38 Instrument and panel lighting	F3	114 Fasten seat belt light, rear	J5, X2
39 Engine compartment light	C2	115 Bulb failure warning sensor	H4
40 Boot (trunk) light	N5	116 Seat belt reminder	X2
41 Door open warning light	N5, P5	117 Relay for windscreen intermittent wipe	G3
42 Heater control panel	G3, Z1, BB1	118 Relay for tailgate intermittent wipe	S4
43 Vanity mirror light	P4	119 Fuel pump relay	D5
44 Seat belt, light, driver	K5, X2	121 Flasher device	G4
45 Seat belt light, passenger	K4	122 Exhaust gas temperature sensor (Japan)	BB5
46 Windscreen wiper switch	H3	123 Overdrive relay (M 46)	Y5
47 Main light switch	G4	124 Relay, power windows + electric cooling fan	BB4
48 Turn signal switch (hazard warning lights)	G5	125 Central lock relay	Z4
49 Horn	A5	127 Auxiliary light relay	AA6, BB6
50 Heated rear window switch	K3	130 Glow plug relay (diesel)	R5
51 Rear foglight switch	Z6, BB6	131 Fan relay	Z1, BB2
52 Heater pads, passenger seat switch	J3, Q3	132 AC compressor delay relay	Y1, AA1
53 Overdrive switch	Y4, Y6	135 Motronic & LH-Jetronic system relay	U2, U5
54 Heater switch	G4, Z1	136 Overdrive relay, AW 70/71	Y4
55 Power windows, driver side switch	AA3	137 High beam relay	H5
56 Power windows, passenger side switch	BB4	138 Heater pad, set 30/120 W	J5, K2, Q3
57 Power windows, driver side, rear	BB4	139 Heater pad, backrest 30/120 W	K2, K5, Q3
58 Power windows, passenger side, rear	AA4	142 Overheating protection device	J3, K5, Q3
59 Power mirrors, driver side	Z5	143 Loudspeaker, front left door 4 ohms	Y1
60 Power mirror, passenger side	AA5	144 Loudspeaker, front right door 4 ohms	Y1
61 Central lock switch (link rod)	Z4	145 Loudspeaker, rear left 4 ohms	Y1
62 Power sun roof switch	Y3	146 Loudspeaker, rear right 4 ohms	Y2
63 Fog/spotlamp switch	AA6, BB6	147 Aerial	X1
64 Brake light switch	G3	148 Power aerial 3 A	Y1
65 Choke switch	E3	149 Radio	X1
66 Handbrake switch	F3	150 Power window motor, driver door 5 A	BB4
67 Brake failure warning switch	F3	151 Power window motor, passenger door 5 A	BB5
70 Reversing (back-up) light switch	K5	152 Power window motor, driver side rear 5 A	BB5
71 Start inhibitor switch (automatic)	D3	153 Power window motor, passenger side rear 5 A	AA5
72 Driver door switch	N4	154 Power door mirror, driver side	L3, Z5
		155 Power door mirror, passenger side	L3, BB5

Key to Figs. 12.34 to 12.36 (continued)

156 Electric cooling fan motor 13A	W1	243 Power seat, on-off switch	T4
157 Headlight wiper motor 1A	B2, B5	244 Power seat control unit	T3
158 Power sun roof motor	Y3	245 Power seat motor, fore-aft	U4
159 Central lock motor, passenger door	AA4	246 Power seat motor, up-down, front	U3
160 Central lock motor, driver side rear	Z5	247 Power seat motor, up-down, rear	U3
161 Central lock motor, passenger side rear	AA5	248 Power seat motor, backrest rake	U4
162 Central lock motor, boot (trunk)/tailgate	Z5	250 Fuel level sensor, increased capacity tank	F5
163 Windshield wiper motor 3.5A	G3	251 Kick down inhibitor	Z5
164 Windshield washer motor 2.6A	G3	252 ABS control unit	U1
165 Heater fan	G4, Z2, BB1	253 ABS modulator	T3
166 Capacitor	C3	254 ABS transient surge protector	T2
169 Heater fan resistor	Z1, BB1	255 ABS converter	T1
170 Catalytic converter	BB5	256 ABS/ETC sensor, front left	S2, T1
173 Delay unit for courtesy light	P5	257 ABS/ETC sensor, front right	S2, T1
176 CIS control unit	AA3	258 ABS 80 A fuse	T3
178 Washer level sensor	F3	260 Ignition system (EZ-K) control unit	Q1, Q4
180 Speedometer transmitter	F5	262 ACC vacuum pump	AA1
181 Coolant temperature sensor	F5	266 Heated rear window, time-delay relay	K3, K4
182 Fuel level sensor	F5	267 Test point, EZ-K	R5
185 Charge air temperature sensor	V2	270 ABS speedometer transmitter	T1
186 Air flow meter	V1	271 Fuel shut-off valve	Q4
187 Lambdasond (heated)	U4	272 Accelerator pedal microswitch	R5
188 Start injector	C6	274 EGR relay	T6
189 Control pressure regulator	C5	275 EGR idling switch	T5
190 Auxiliary air valve	C5	277 EGR 3-way valve	T5
193 Hot start valve	B5	278 Aneroid switch	T6
194 Solenoid valve for AC compensation/ignition advance	V5	279 Altitude compensation solenoid valve	T6
195 Solenoid valve (carb), fuel valve (diesel)	C3, T6	280 Heater pad relay, driver seat	Q3
196 Air control valve	U4, AA3	284 Air mass meter	V4
197 Oil pressure sensor	E3	286 ETC sensor, rear left	R1
198 Throttle switch, LH-Jetronic	V4	287 ETC sensor, rear right	R1
199 Temperature sensor, diesel	S5	288 ETC pressure sensor	S2
200 AC compressor solenoid 3.9A	V6	289 ETC power stage	R3, V3
201 Overdrive solenoid	Y5, Z4	290 ETC control unit	S1
202 CU heater control panel	Z3, AA3	292 Solenoid valve (idling advance)	Z6
203 ACC temperature control	AA2	293 Relay (idling advance)	W6, X6, Y6
204 ACC ambient temperature sensor	AA2	295 Gear shift indicator relay	T5
205 ACC in-car temperature sensor	AA2	298 ETC relay	R1
206 ACC programmer	BB2	346 Roof light, cargo	N6
207 Horn 15A	A4	347 Tailgate light contact	P6
208 Glow plug	S5	361 Injector No 1	R2, V2, V6
210 Tank pump 1.6A	K2	362 Injector No 2	R2, V2, V6
211 Fuel pump 6.5A	D6	363 Injector No 3	R2, V2, V6
212 Test point for cranking starter motor	D3, S5, W6, X6	364 Injector No 4	R2, V2, V5
213 Motronic throttle switch	V1	365 Injector No 5	V5
214 Crankshaft position sensor	U1	366 Injector No 6	V5
215 Engine rpm sensor	U1	375 Heated seat switch	K5, Q3
216 Motronic control unit	V1	376 Ballast resistor (LH-Jetronic)	U6
217 LH-Jetronic	U3	377 PTC resistor	C3
218 Knock sensor	Q2, R6	384 Brake fluid level sensor	F3, T2
219 Lambdasond test point	U4	395 ETC switch	S1
220 CIS test point	V4, Z3	403 Temperature sensor, battery	B3
221 Heated rear window 140W	L2	404 Vacuum-controlled microswitch	T6
223 Cigar lighter 7A	F3	405 Choke (semi-automatic heated type)	B5
224 Electric cooling fan thermal switch	W1	406 Control unit, Renix	R3
225 Cruise control switch	W1	407 Impulse sender, Renix	R3
226 Cruise control switch	W2	408 Gear shift indicator switch	T5
227 Vacuum pump	W2	410 Crankcase ventilation, heated	D2
228 Bridge connector	W2	413 Impulse sender, EZ-K	Q1
229 Brake pedal switch	W2	416 HT lead sensor	P2
231 Rear fog light relay	Z6	417 EZ-K service socket	Q2
232 Hot spot relay	X5	419 Power stage, EZ-K	Q1, Q4
233 Pressure sensor, turbo-diesel	S6	424 Solenoid valve, charge pressure	S6
234 Hot spot thermostat	X5	425 Temperature sensor, charge pressure limiter	S6
235 Hot spot PTC resistor	X5	438 Seat heater contact	K3
238 Tailgate washer motor	S4	464 Radio interference suppression relay	R2, U6, V3
239 Tailgate wiper bridge connector	S4	479 DIM-DIP regulator	G5
240 Tailgate wash/wipe	S3	490 Power aerial switch	Y1
241 Tailgate wiper motor	S3	886 Bridge connector	V4
242 Emergency stop, power seat	T4	928 Air bag	B4
		929 Ignition module	B5

Key to Figs. 12.37 to 12.40

1 Battery	C2	73 Passenger door switch	P4
2 Ignition switch	E3	74 Rear door switch	N6, P6
3 Instrument connection, 3-pole	Z4	75 Passenger seat contact	K4
4 Ignition coil, 12 A	C5	76 Charge air overpressure switch (turbo)	U4
5 Distributor	C4, R4	77 Overdrive switch (M 46)	Y5
6 Spark plug	C4	80 Thermal time switch	B6
7 Instrument connection, 7-pole	Z4	81 AC pressure switch	Z2, AA1
8 Instrument connection, 8-pole	Y4	82 ACC heater fan pressure switch	AA2
9 Starter motor	C3	83 In-car temperature sensor	AA2
10 Alternator with built-in regulator	B3	84 Water temperature sensor	Q1, Q5, U2, V3
11 Fusebox	C1, E1, H1	85 Speedometer	F4
12 Instrument connection, 12-pole	Y4	86 Tachometer	F4
13 Main beam bulb, 60 W	A2, A5, A6	87 Clock	E4
14 Dipped beam bulb, 55 W	A2, A6	88 Coolant temperature gauge	F4
15 Central electrical unit, terminal 15	W4	89 Fuel gauge	E4
16 Parking light, 4 cp/5 W (USA: also tail)	A1, A6, L1, L6	90 Voltmeter	E4
17 Day running light, 32 cp/21 W	A1, A6	93 Voltage regulator	G4
18 Turn signal 32 cp/21 W	A1, A6, L1, L6, M1, M6	94 Rheostat, instrument and control lighting	F4
19 Back-up (reversing) light 32 cp/21 W	L1, L6, M1, M6	95 Instrument lighting	F4
20 Rear foglight, 32 cp/21 W	L1, L6, M1, M6	96 Oil level lamp	E4
21 Tail light 4 cp/5 W	L1, L6, M1, M6	97 Oil pressure lamp	E4
22 Brake light, 32 cp/21 W	L1, L6, M1, M4, M6	98 Choke/turbo boost lamp (exhaust gas temp)	E4
23 Foglight (spotlight), 55 W	Z6, AA6	99 Handbrake lamp	F4
24 Numberplate light, 4 cp/5 W	M3, M4	100 Brake failure warning lamp	F4
25 Courtesy light	P5	101 Washer fluid level lamp	F4
26 Reading light, front	P5	102 Gear shift indicator lamp/AW 70/71 overdrive lamp	F4
27 Courtesy light	P5	103 Bulb failure lamp	F4
28 Reading light, rear	N5, P5	104 Glow plug/ETC sensor lamp	F4
29 Positive terminal	D3	105 Battery charge lamp	E5
30 Central electrical unit, terminal 30	W4	106 Not connected	E5
31 Ground connection, central electrical unit	W3	107 Exhaust gas temp., ABS	E5
32 Glove box light	N4	108 Direction indicator lamp, left	F5
33 Ashtray light, front	F3	109 High beam lamp	F5
34 Ashtray light, rear	K4	110 Direction indicator lamp, right	F5
35 Sun roof switch light	F3	111 Indicator lamp, EGR	F5
36 Passenger seat heater switch	K4	112 Overdrive (M 46) indicator lamp	F5
37 Gear selector light (automatic)	J4	113 Fasten seat belt light, front	F5, X2
38 Instrument and panel lighting	F3	114 Fasten seat belt light, rear	J5, X2
39 Engine compartment light	C2	115 Bulb failure warning sensor	H4
40 Boot (trunk) light	N5	116 Seat belt reminder	X2
41 Door open warning light	N5, P5	117 Relay for windscreen intermittent wipe	G3
42 Heater control panel	G3, Z1, BB1	118 Relay for tailgate intermittent wipe	S4
43 Vanity mirror light	P4	119 Fuel pump relay	D5
45 Seat belt, light, driver	K5, X2	121 Flasher device	G4
46 Seat belt light, passenger	K4	122 Exhaust gas temperature sensor (Japan)	BB5
47 Windscreen wiper switch	H3	123 Overdrive relay (M 46)	Y5
48 Main light switch	G4	124 Relay, power windows + electric cooling fan	BB4
49 Turn signal switch (hazard warning lights)	G5	125 Central lock relay	Z4
50 Horn	A5	127 Auxiliary light relay	AA6, BB6
51 Heated rear window switch	K3	130 Glow plug relay (diesel)	R5
52 Rear foglight switch	Z6, BB6	131 Fan relay	Z1, BB2
53 Heater pads, passenger seat switch	J3, Q3	132 AC compressor delay relay	Y1, AA1
54 Overdrive switch	Y4, Y6	135 Motronic & LH-Jetronic system relay	U2, U5
55 Heater switch	G4, Z1	136 Overdrive relay, AW 70/71	Y4
56 Power windows, driver side switch	AA3	137 High beam relay	H5
57 Power windows, passenger side switch	BB4	138 Heater pad, set 30/120 W	J5, K2, Q3
58 Power windows, driver side, rear	BB4	139 Heater pad, backrest 30/120 W	K2, K5, Q3
59 Power windows, passenger side, rear	AA4	142 Overheating protection device	J3, K5, Q3
60 Power mirrors, driver side	Z5	143 Loudspeaker, front left door 4 ohms	Y1
61 Power mirror, passenger side	AA5	144 Loudspeaker, front right door 4 ohms	Y1
62 Central lock switch (link rod)	Z4	145 Loudspeaker, rear left 4 ohms	Y1
64 Power sun roof switch	Y3	146 Loudspeaker, rear right 4 ohms	Y2
65 Fog/spotlamp switch	AA6, BB6	147 Aerial	X1
66 Brake light switch	G3	148 Power aerial 3 A	Y1
67 Choke switch	E3	149 Radio	X1
68 Handbrake switch	F3	150 Power window motor, driver door 5 A	BB4
69 Brake failure warning switch	F3	151 Power window motor, passenger door 5 A	BB5
70 Reversing (back-up) light switch	K5	152 Power window motor, driver side rear 5 A	BB5
71 Start inhibitor switch (automatic)	D3	153 Power window motor, passenger side rear 5 A	AA5
72 Driver door switch	N4	154 Power door mirror, driver side	L3, Z5
		155 Power door mirror, passenger side	L3, BB5

Key to Figs. 12.37 to 12.40 (continued)

156 Electric cooling fan motor 13A	W1	243 Power seat, on-off switch	T4
157 Headlight wiper motor 1A	B2, B5	244 Power seat control unit	T3
158 Power sun roof motor	Y3	245 Power seat motor, fore-aft	U4
159 Central lock motor, passenger door	AA4	246 Power seat motor, up-down, front	U3
160 Central lock motor, driver side rear	Z5	247 Power seat motor, up-down, rear	U3
161 Central lock motor, passenger side rear	AA5	248 Power seat motor, backrest rake	U4
162 Central lock motor, boot (trunk)/tailgate	Z5	250 Fuel level sensor, increased capacity tank	F5
163 Windshield wiper motor 3.5A	G3	251 Kick down inhibitor	Z5
164 Windshield washer motor 2.6A	G3	252 ABS control unit	U1
165 Heater fan	G4, Z2, BB1	253 ABS modulator	T3
166 Capacitor	C3	254 ABS transient surge protector	T2
169 Heater fan resistor	Z1, BB1	255 ABS converter	T1
170 Catalytic converter	BB5	256 ABS/ETC sensor, front left	S2, T1
173 Delay unit for courtesy light	P5	257 ABS/ETC sensor, front right	S2, T1
176 CIS control unit	AA3	258 ABS 80 A fuse	T3
178 Washer level sensor	F3	260 Ignition system (EZ-K) control unit	Q1, Q4
180 Speedometer transmitter	F5	262 ACC vacuum pump	AA1
181 Coolant temperature sensor	F5	266 Heated rear window, time-delay relay	K3, K4
182 Fuel level sensor	F5	267 Test point, EZ-K	R5
185 Charge air temperature sensor	V2	270 ABS speedometer transmitter	T1
186 Air flow meter	V1	271 Fuel shut-off valve	Q4
187 Lambdasond (heated)	U4	272 Accelerator pedal microswitch	R5
188 Start injector	C6	274 EGR relay	T6
189 Control pressure regulator	C5	275 EGR idling switch	T5
190 Auxiliary air valve	C5	277 EGR 3-way valve	T5
193 Hot start valve	B5	278 Aneroid switch	T6
194 Solenoid valve for AC compensation/ignition advance	V5	279 Altitude compensation solenoid valve	T6
195 Solenoid valve (carb), fuel valve (diesel)	C3, T6	280 Heater pad relay, driver seat	Q3
196 Air control valve	U4, AA3	284 Air mass meter	V4
197 Oil pressure sensor	E3	286 ETC sensor, rear left	R1
198 Throttle switch, LH-Jetronic	V4	287 ETC sensor, rear right	R1
199 Temperature sensor, diesel	S5	288 ETC pressure sensor	S2
200 AC compressor solenoid 3.9A	V6	289 ETC power stage	R3, V3
201 Overdrive solenoid	Y5, Z4	290 ETC control unit	S1
202 CU heater control panel	Z3, AA3	292 Solenoid valve (idling advance)	Z6
203 ACC temperature control	AA2	293 Relay (idling advance)	W6, X6, Y6
204 ACC ambient temperature sensor	AA2	295 Gear shift indicator relay	T5
205 ACC in-car temperature sensor	AA2	298 ETC relay	R1
206 ACC programmer	BB2	346 Roof light, cargo	N6
207 Horn 15 A	A4	347 Tailgate light contact	P6
208 Glow plug	S5	361 Injector No 1	R2, V2, V6
210 Tank pump 1.6A	K2	362 Injector No 2	R2, V2, V6
211 Fuel pump 6.5A	D6	363 Injector No 3	R2, V2, V6
212 Test point for cranking starter motor	D3, S5, W6, X6	364 Injector No 4	R2, V2, V5
213 Motronic throttle switch	V1	365 Injector No 5	V5
214 Crankshaft position sensor	U1	366 Injector No 6	V5
215 Engine rpm sensor	U1	375 Heated seat switch	K5, Q3
216 Motronic control unit	V1	376 Ballast resistor (LH-Jetronic)	U6
217 LH-Jetronic	U3	377 PTC resistor	C3
218 Knock sensor	Q2, R6	384 Brake fluid level sensor	F3, T2
219 Lambdasond test point	U4	395 ETC switch	S1
220 CIS test point	V4, Z3	403 Temperature sensor, battery	B3
221 Heated rear window 140 W	L2	404 Vacuum-controlled microswitch	T6
223 Cigar lighter 7 A	F3	405 Choke (semi-automatic heated type)	B5
224 Electric cooling fan thermal switch	W1	406 Control unit, Renix	R3
225 Cruise control switch	W1	407 Impulse sender, Renix	R3
226 Cruise control switch	W2	408 Gear shift indicator switch	T5
227 Vacuum pump	W2	410 Crankcase ventilation, heated	D2
228 Bridge connector	W2	413 Impulse sender, EZ-K	Q1
229 Brake pedal switch	W2	416 HT lead sensor	P2
231 Rear fog light relay	Z6	417 EZ-K service socket	Q2
232 Hot spot relay	X5	419 Power stage, EZ-K	Q1, Q4
233 Pressure sensor, turbo-diesel	S6	424 Solenoid valve, charge pressure	S6
234 Hot spot thermostat	X5	425 Temperature sensor, charge pressure limiter	S6
235 Hot spot PTC resistor	X5	438 Seat heater contact	K3
238 Tailgate washer motor	S4	464 Radio interference suppression relay	R2, U6, V3
239 Tailgate wiper bridge connector	S4	479 DIM-DIP regulator	G5
240 Tailgate wash/wipe	S3	490 Power aerial switch	Y1
241 Tailgate wiper motor	S3	886 Bridge connector	V4
242 Emergency stop, power seat	T4	928 Air bag	B4
		929 Ignition module	B5

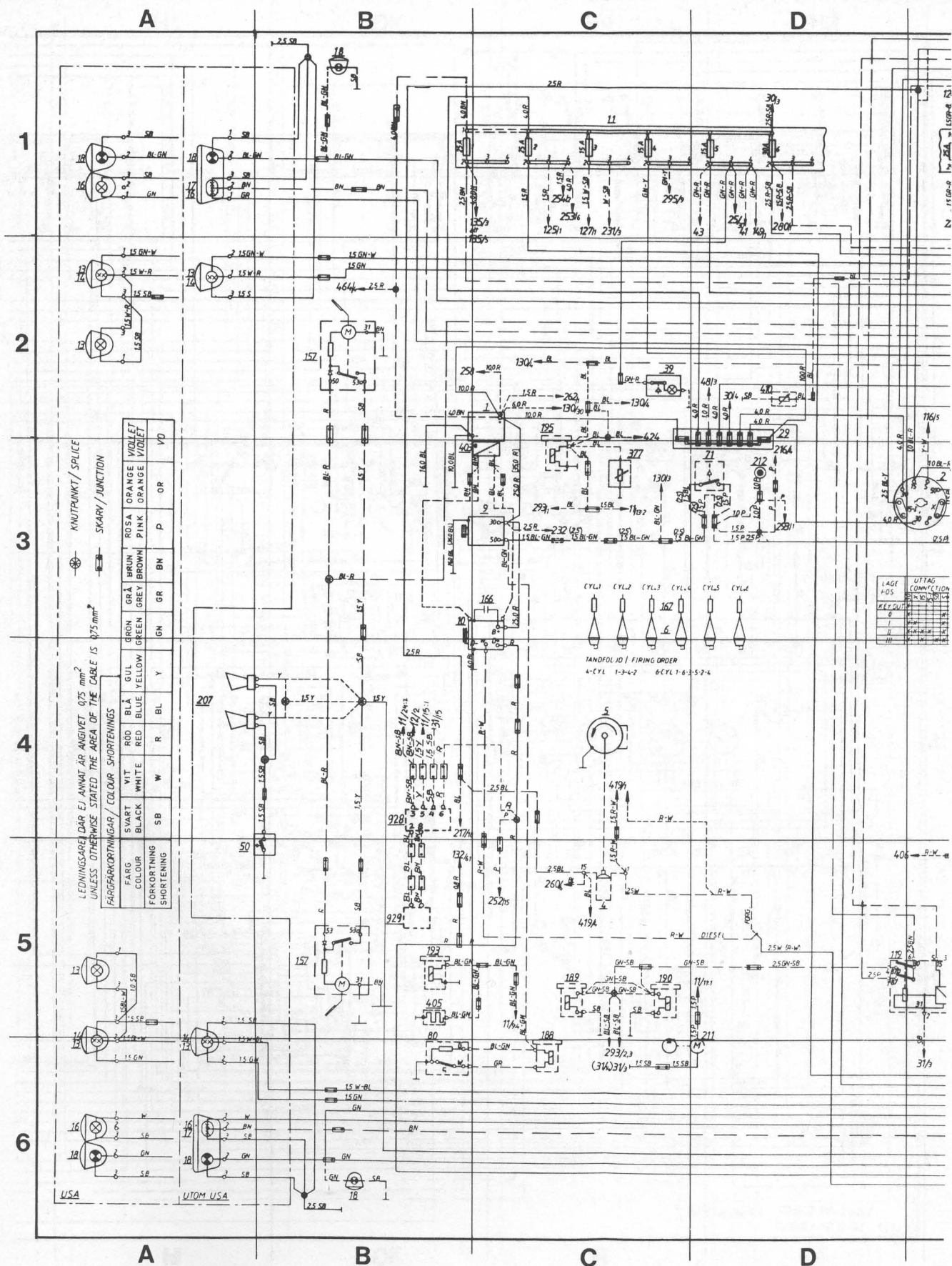
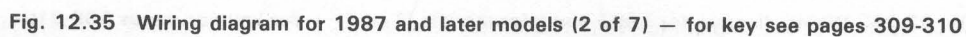


Fig. 12.34 Wiring diagram for 1987 and later models (1 of 7) — for key see pages 309-310



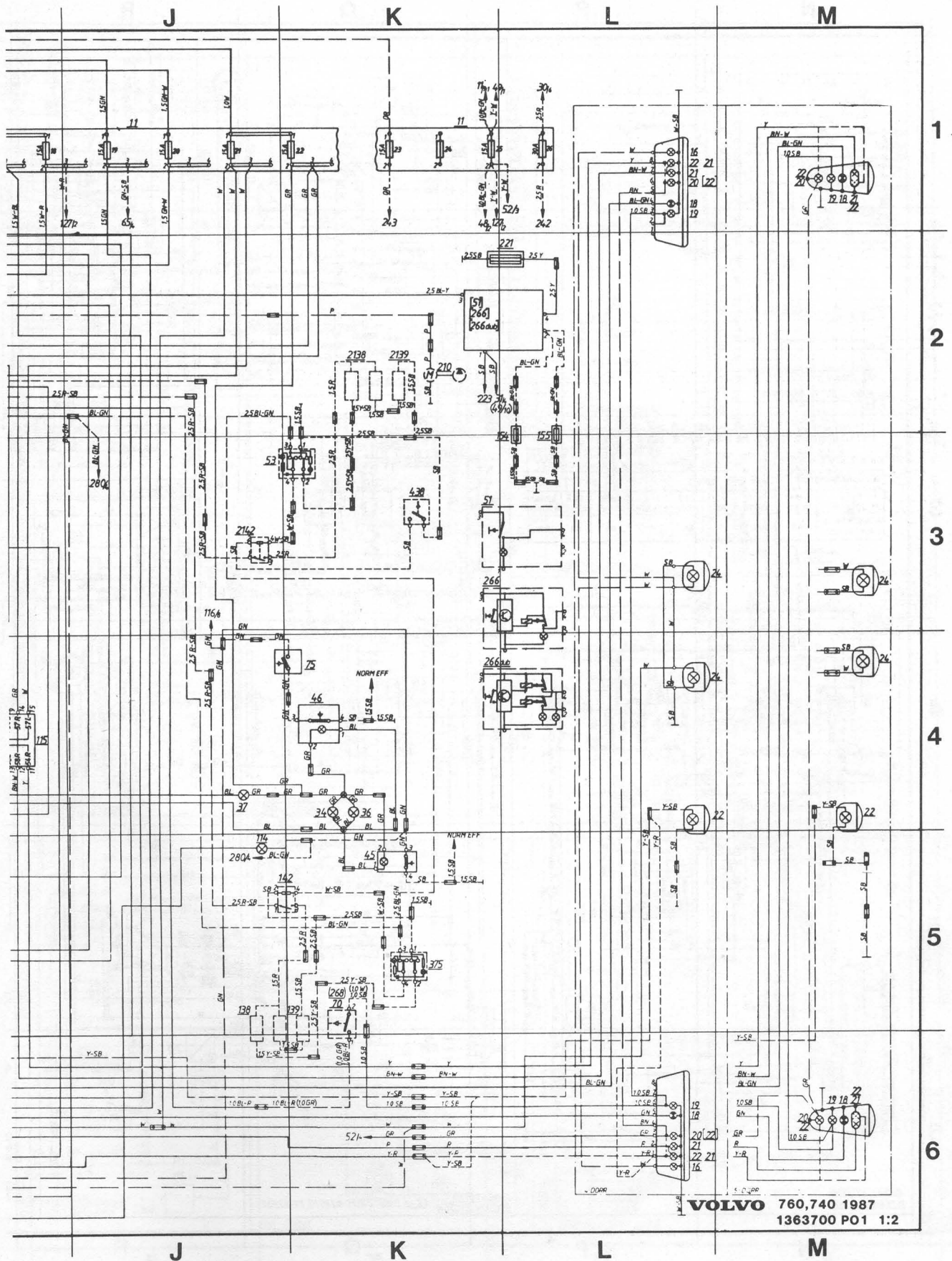


Fig. 12.36 Wiring diagram for 1987 and later models (3 of 7) — for key see pages 309-310

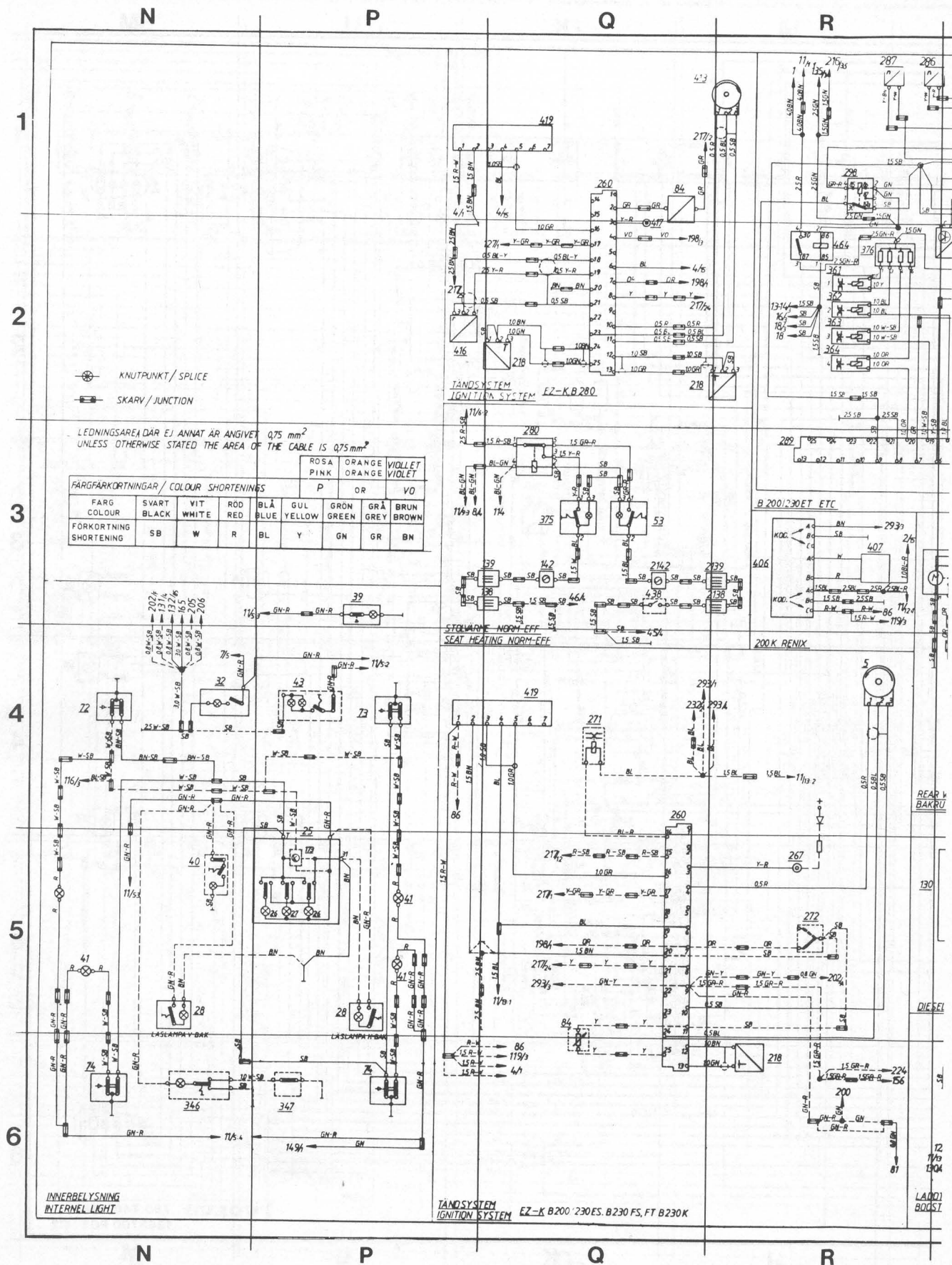


Fig. 12.37 Wiring diagram for 1987 and later models (4 of 7) — for key see pages 311-312

Fig. 12.38 Wiring diagram for 1987 and later models (5 of 7) — for key see pages 311-312

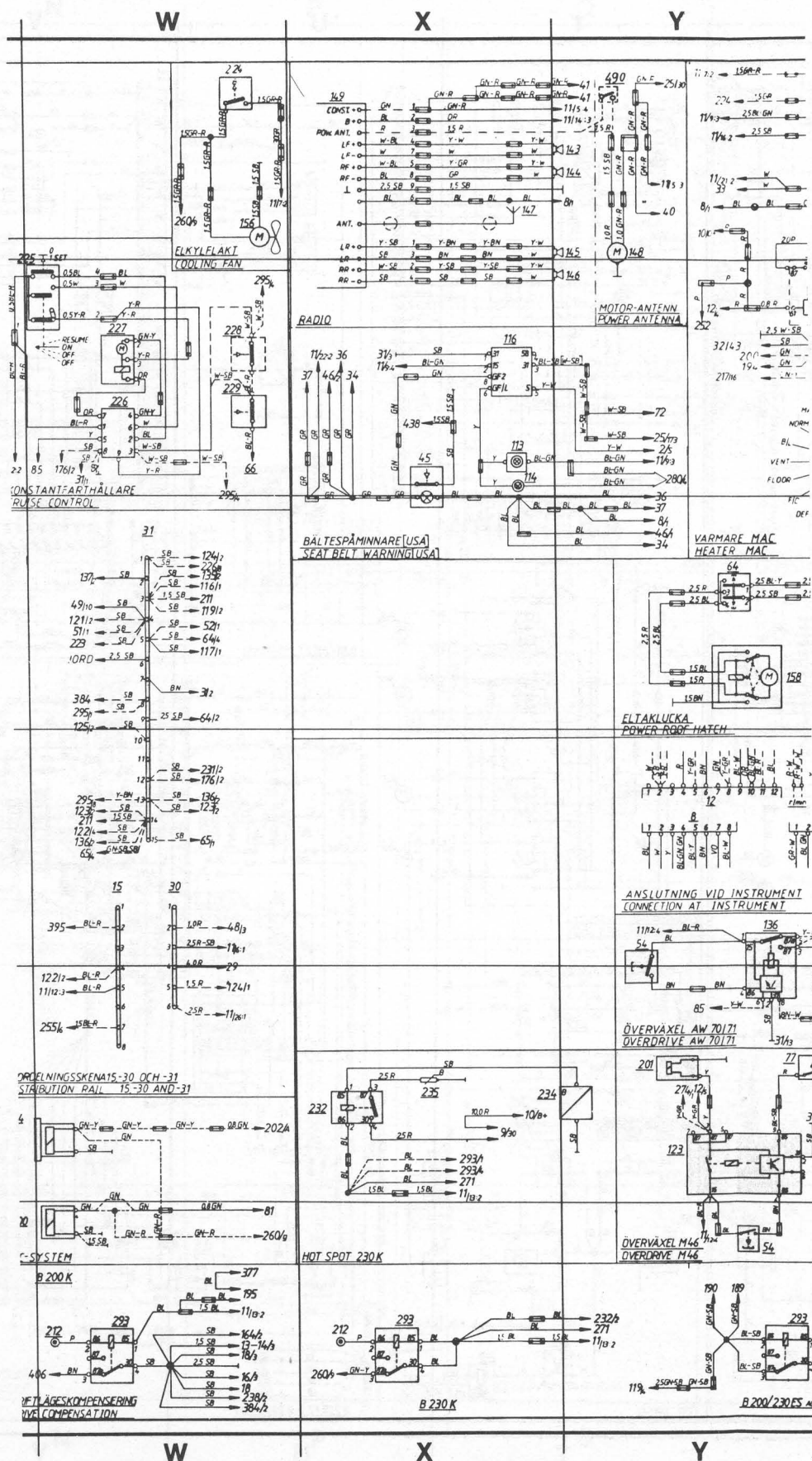


Fig. 12.39 Wiring diagram for 1987 and later models (6 of 7) — for key see pages 311-312

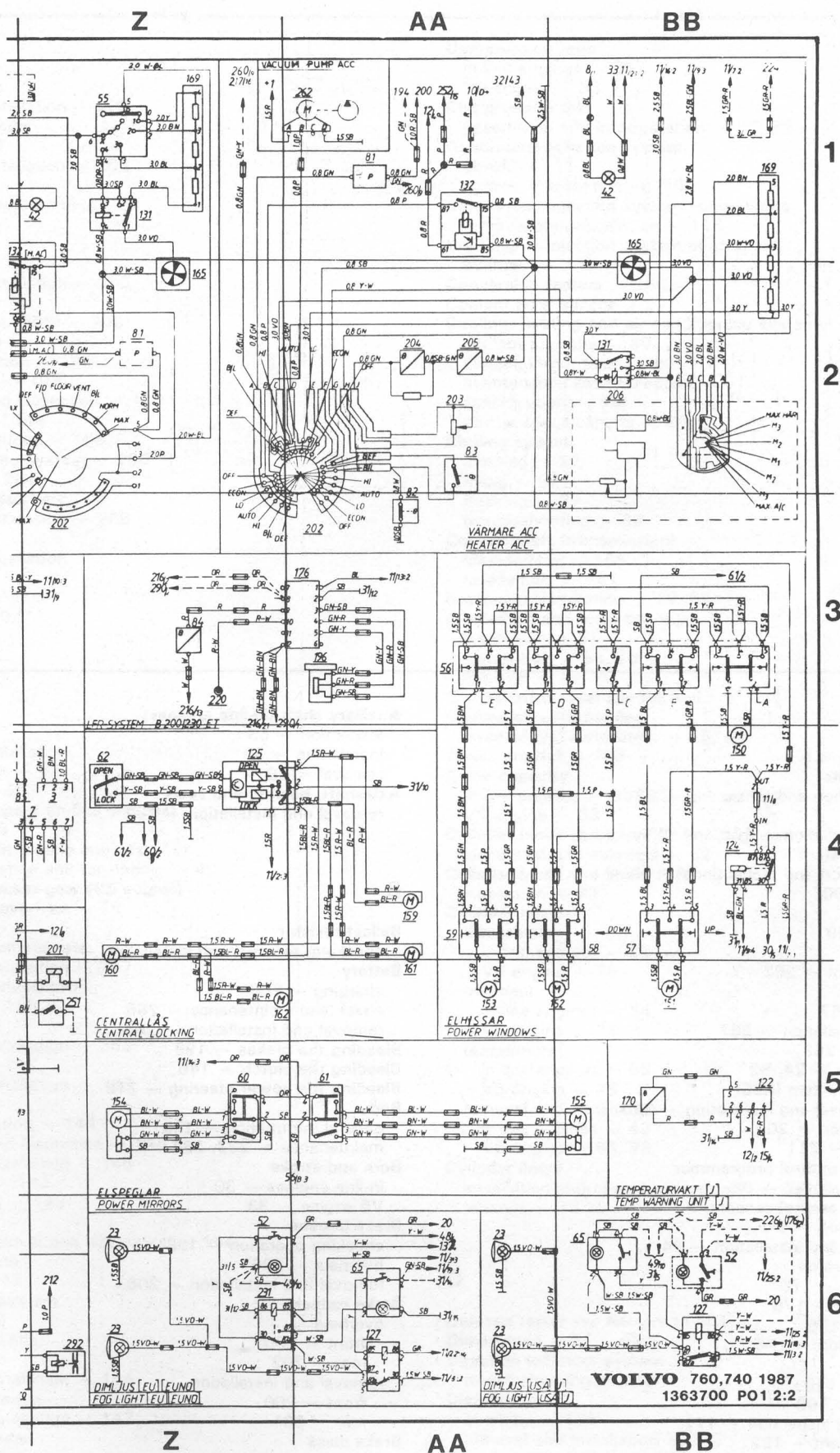


Fig. 12.40 Wiring diagram for 1987 and later models (7 of 7) — for key see pages 311-312