

BLAUPUNKT CAR RADIO

WARRANTY TERMS

BLAUPUNKT car radios are warranted for 12 months from date of installation against original factory defects in material and workmanship.

Upon presentation of this warranty policy, properly filled in and signed by your BLAUPUNKT car radio dealer, free service in accordance with this warranty can be obtained within the warranty period at any authorized BLAUPUNKT car radio service station.

Such service as may be necessary as the result of accident, misuse and abuse, or improper service by unauthorized persons is not included in this warranty; nor does the warranty apply to correction of faulty installation, elimination of motor noise, car static or other electrical interference, aerial repairs, or any labor costs incurred in connection with the removal and reinstallation of the unit for repairs.

To validate this warranty the attached postcard must be mailed to Robert Bosch Corporation, completely filled in, within 10 days of installation.

ROBERT BOSCH CORPORATION

CHICAGO - HOUSTON - NEW YORK - SAN FRANCISCO

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BLAUPUNKT

CAR RADIOS OWNERS MANUAL

MODEL FRANKFURT STEREO US
7 639 696 000 and 7 630 629 000



ROBERT BOSCH CORPORATION

CHICAGO - HOUSTON - NEW YORK - SAN FRANCISCO

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GENERAL INFORMATION

BATTERY VOLTAGE AND POLARITY: This BLAUPUNKT car radio model is for connection to a 12 Volt minus terminal to ground electrical system only. If operation on a 6 Volt minus terminal to ground system is required, a DC converter (7 607 315 000) must be connected in series with the A-lead.

FUSE: A 2 A fuse is installed in the fuse cartridge of the battery connection lead.

DIAL LAMP: The dial lamp (14 V, .1 A) is accessible after removing the dial glass and dial back panel. While performing this work the dial pointer must be located in the left end position.

LOUDSPEAKER: The correct loudspeaker impedance is 4 Ohms. BLAUPUNKT loudspeakers are designed for optimum performance with BLAUPUNKT radios and connections should be made according to the applicable installation instruction. A wide selection of accessory speakers for various applications is available. Use an original BLAUPUNKT fader control if 3 or 4 loudspeakers are to be installed. However, two 8 Ohms speakers per channel can be used without fader control if connected in parallel.

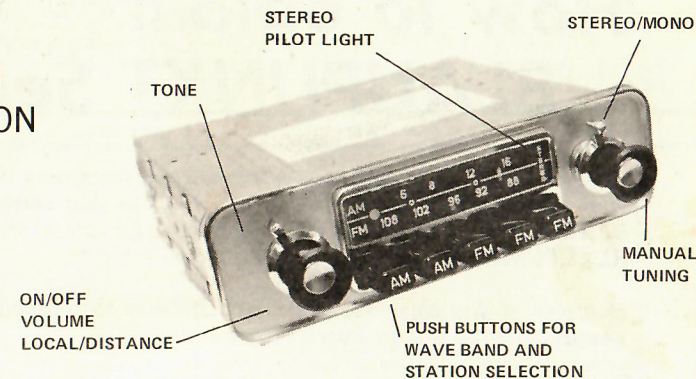
ANTENNA: For best performance use the BLAUPUNKT recommended antenna type. BOSCH antennas with a length of 39 to 41 inches provide best overall performance on AM and FM when fully extended. Longer antennas result in improved AM reception in fringe areas, but have to be reduced in length for optimum FM reception.

The antenna trimmer should be properly adjusted for best AM reception. This is especially important if an antenna extension cable or non-BOSCH antenna is used.

BALANCE CONTROL: The balance control is accessible with a screwdriver through the right side of the receiver housing. It is factory-adjusted for equal power of both channels. If a correction is desired the adjustment should be performed after all loudspeakers are installed but before the radio is fixed in its mounting position.

An optional balance control for in-dash or under-dash mounting and simple plug-in into the radio is available under Order No. 9 404 230 011, if additional balance adjustment is desired.

OPERATING INSTRUCTION



ON/OFF SWITCH AND VOLUME CONTROL are combined on the left hand knob. Clockwise rotation turns the radio on, further rotation increases the volume.

THE TONE CONTROL allows for a wide adjustment to suit the program material and listener's preference. Maximum treble is obtained when the knob is set to the fully clockwise position, maximum bass response in fully counter-clockwise setting.

WAVE BAND SWITCH. The receiver is switched to the desired wave band by pressing the respective push-button:

2 x AM	Broadcast band	510 - 1640 kHz
3 x FM	FM band	88 - 108 MHz

A red indicator above a push-button indicates that this button has been pressed.

TUNING. Broadcast stations may be tuned in by either the manual tuning knob or by push-buttons.

PUSH-BUTTONS are set as follows: Turn the radio on and switch to the desired wave band by pressing one of the respective buttons. Pull out the push-button that is to be set (the push-button marked AM can be used for setting AM stations, the push-button marked FM can be used for setting FM stations). Tune in the desired station with the manual tuning knob. When best possible reception is achieved, press the push-button in as far as it will go. The push-button is now set to that frequency. Proceed with remaining push-buttons in the same manner.

THE LOCAL/DISTANCE SWITCH is activated by the left hand knob and allows for best possible reception under extreme receiving conditions in strong local areas, when pulled. Under normal receiving conditions or in fringe areas push in knob to set radio to full sensitivity. The switch operates only on the FM band and does not affect the AM reception.

THE STEREO/MONO SWITCH must be set to "Stereo" for reception of a stereo program. If a stereo signal is received the pilot light will light up. Flickering light indicates an insufficient and fluctuating stereo signal and the unit should be tuned to a different, stronger station. However, if it is desired to keep the program tuned in, it is suggested to switch the operating mode to "mono" to improve the reception quality in spite of the weak signal received.

How to obtain BLAUPUNKT Service?

Contact the dealer from whom you purchased your radio. If he does not have his own repair facilities, he will direct you to the services of an authorized BLAUPUNKT service station or arrange for an exchange unit under the BLAUPUNKT warranty exchange program.

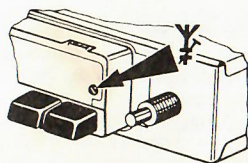
However, if you have moved or your dealer is not available, please contact the nearest office of Robert Bosch Corporation.

If the radio is still covered under the BLAUPUNKT warranty terms, make sure to have your validated "Customers Warranty Policy" in your possession.

MODEL 30 629 — FRANKFURT STEREO US

Above model has the same performance and circuitry as model 39 696 except for the following changes:

1. A resistance network of 3.9 kOhms and 50 kOhms potentiometer (Order No. 8 901 509 127) is switched parallel to resistor F 5 (2.8 kOhms) by waveband switch contacts 44-45 in position FM only.
2. C 39 is changed from .022 mfd to .015 mfd.
3. C 48 and D 20 have been eliminated.
4. Positions of diode X 200 and resistor R 106 have been reversed.
5. Antenna trimmer alignment is through hole in dial scale rather than by knob in rear of radio.



BLAUPUNKT CAR RADIO Frankfurt Stereo US

Spare Parts List

REF. NO.	DESCRIPTION	ORDER NO.	REF. NO.	DESCRIPTION	ORDER NO.
CABLES			FM TUNER		
	Cable (potentiometer board)	8 634 490 979		FM tuner	8 638 810 125
	Cable (AF/potentiometer board)	8 634 490 977		Slide	8 636 260 043
	Cable (AF/decoder board)	8 634 490 978		Tuning slug	8 908 373 324
	Antenna cable	8 634 490 028		Cover plate	8 635 130 423
	Battery cable	6 768 911 003		Strap	8 631 311 491
	Cable (IF/decoder board)	8 634 490 359		Tension spring	8 634 620 035
SOCKETS AND PLUGS			SCREWS		
	Lamp socket	8 630 690 009		Cyl. screw AM 3 x 6	2 910 011 048
	Tape recorder jack	8 908 613 611		Cyl. screw AM 3 x 3	2 910 011 045
	Cover for tape recorder jack	8 634 390 546		Cyl. screw AM 3 x 12	2 910 011 054
	Fuse cartridge	8 630 690 008		Hex. self-tapping screw BZ 3.5 x 6.5	2 911 291 209
	Terminal strip	8 634 390 101		Hex. self-tapping screw BZ 2.9 x 2.04	2 911 291 204
	Lamp support (stereo)	8 630 690 051		Hex. self-tapping screw BZ 2.9 x 13	2 911 291 206
				Hex. screw M 3 x 5	2 916 690 001
PUSH BUTTONS			PRINTED CIRCUIT BOARDS		
	Push button FM	8 632 090 236		Coil board	8 638 300 947
	Push button AM	8 632 090 237		Shielding	8 632 310 001
	Push button gasket	8 631 065 101		Cylinder core	8 908 313 264
	Driver	8 631 960 021		Cylinder core	8 908 313 263
	Knob	8 632 060 501		Wave band switch slider	8 634 390 151
				Contact plate	8 638 310 010
HOUSING PARTS				IF board	8 638 300 896
	Front plate	8 635 121 125		Wave band switch board	8 638 310 018
	Side part, RH	8 635 121 131		Wave band switch slider	8 634 390 162
	Side part, LH	8 635 120 246		Shielding cap	8 635 390 061
	Rear panel	8 635 121 151		Frame welded	8 635 320 181
	Top plate	8 635 120 080		Protection cover, upper	8 635 130 601
	Bottom plate	8 635 120 078		Protection cover, lower	8 635 390 049
	Light channel (stereo)	8 635 370 001		Lever	8 631 960 005
	Dial	8 631 190 151		Jack	8 630 310 361
	Shaft for trimmer	8 633 060 006		FM board	8 638 300 806
	Clamp (antenna and battery cable)	8 631 316 218		Shielding cap	8 635 320 293
	Insulating bushing (speaker)	8 630 360 122		Potentiometer board	8 638 300 915
PUSH BUTTON UNIT				Contact pin (6 pieces)	8 634 310 133
	Push button unit, complete	8 638 410 313		AF board	8 638 300 936
	Rocker, rivited	8 631 990 033		Heat sink	8 631 340 065
	Spring	8 634 620 030		Plastic cap AD 161/162	8 630 560 071
	Clutch lever	8 631 910 003		Soldering plate	8 634 331 211
	Tension spring	8 634 650 016		Insulating washer	8 630 161 502
	Bearing plate	8 631 010 012		Speaker jack	8 908 613 131
	Push button, complete	8 631 990 023		Decoder board	8 638 307 005
	Striker	8 631 910 004		Suppressor, complete	8 638 810 133
	Pressure spring	8 634 630 303			
	Braking spring	8 631 210 052	COILS		
	Slide, rivited	8 636 290 093	L3	AM antenna coil	8 634 240 671
	Strap	8 631 010 008	L8	AM RF coil	8 634 240 972
	Tension spring	8 634 620 034	L16	AM oscillator coil	8 634 240 565
	Iron core	8 908 373 531			
	Bearing bracket	8 631 390 312	L104	FM antenna coil	8 634 241 201
	Bushing	8 630 310 093	L106	FM RF coil	8 634 240 961
	Cone	8 632 310 071	L108	FM oscillator coil	8 634 240 991
	Bearing pin	8 633 110 062			
	Clutch lever	8 636 290 037	L160	67 kHz wave trap	8 624 240 321
	Shaft, rivited	8 636 110 019	L161	19 kHz doubler circuit	8 624 240 322
	Worm shaft	8 633 010 235	L162	19 kHz circuit	8 624 240 311
	Flat spring	8 631 210 079			
	Pressure spring	8 634 630 030	L165	15 kHz wave trap	8 624-240 315
	Strap	8 631 010 031	L163	Difference - band circuit	8 624 240 319
	Switch control	8 638 410 187	L166	Ring demodulator circuit	8 624 240 318
	Wave band indicator	8 638 410 262	IF TRANSFORMERS		
	Nut	8 633 310 253	L28/29, 35/36	AM-IF transformer	8 634 240 201
	Switch lever	8 631 960 011	L30, 37	AM-IF transformer	8 634 240 272
	Hollow shaft	8 633 010 194	L42	AM-IF transformer	8 634 240 283
			L20/21, 22/23	AM-IF transformer	8 634 290 744
POINTER ASSEMBLY			L24-27	FM-IF transformer	8 634 290 745
	Roller	8 636 660 151	L31-34	FM-IF transformer	8 634 290 745
	Support for pointer	8 631 311 664	L38-41	FM-IF transformer	8 634 290 746
	Plastic lever	8 631 960 040	L110-112	FM-IF transformer	8 634 290 714
	Pointer	8 631 368 010			
	Tension spring	8 634 640 011	CHOKES		
	Spacer	8 630 460 101	D104	Wave trap	8 674 210 226
	Insulating plate	8 631 057 401	D105, 215	Filter choke	8 674 220 001
			D100	Input choke	8 674 210 295
			D102	Emitter choke	8 634 210 153

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Spare Parts List

REF. NO.	DESCRIPTION	ORDER NO.	REF. NO.	DESCRIPTION	ORDER NO.
CHOKES - continued			ELECTROLYTIC CAPACITORS - continued		
D2	RF choke	8 634 240 722	C223, 232	500 $\mu\text{F} \pm 50\%$ 15 V	8 903 402 314
D20	Filter choke	8 674 220 037	C228	2000 $\mu\text{F} \pm 50\%$ 15 V	8 903 402 343
D225	SW antenna choke	8 634 210 024	C178, 179	0.22 $\mu\text{F} \pm 50\%$ 35 V	8 903 700 603
D560	Battery choke	8 637 210 024	C57	160 $\mu\text{F} \pm 50\%$ 16 V	8 903 480 312
D210	RF choke	8 634 220 073	PLASTIC FILM CAPACITORS		
D21	5 kHz trap	8 634 241 342	C2, 40	68 pF $\pm 2.5\%$ 160 V	8 902 711 221
D200	FM antenna choke	8 674 220 001	C5	190 pF $\pm 2.5\%$ 63 V	8 902 711 231
D22	Filter choke	8 634 240 761	C220, 233	240 pF $\pm 2.5\%$ 63 V	8 902 711 234
D201	AM choke	8 634 210 167	C161	330 pF $\pm 5\%$ 160 V	8 902 833 037
TRANSISTORS			C19	390 pF $\pm 2.5\%$ 63 V	8 902 711 239
V101	Transistor AF 105	8 905 606 001	C200, 205	680 pF $\pm 2.5\%$ 63 V	8 902 711 245
V23	Transistor BF 243 R 2	8 905 706 114	C15	820 pF $\pm 2.5\%$ 63 V	8 902 711 247
V216, 219	Transistor BC 172 B	8 905 707 254	C115	1000 pF $\pm 2.5\%$ 30 V	8 902 704 249
V215, 218	Transistor BC 172 C	8 905 707 255	C166	2200 pF $\pm 20\%$ 100 V	8 902 811 457
V160, 161	Transistor BC 148 C	8 905 706 246	C7	2200 pF $\pm 2.5\%$ 63 V	8 902 711 257
162, 163			C164, 171	3300 pF $\pm 5\%$ 160 V	8 902 833 061
V25, 26, 165	Transistor BC 183 B	8 905 706 261	C167	4700 pF $\pm 10\%$ 100 V	8 902 811 265
V217, 220	Transistor S 2066	8 905 706 750	C172	5100 pF $\pm 5\%$ 100 V	8 902 811 066
V102	Transistor BF 340	8 905 706 117	C31	6800 pF $\pm 5\%$ 100 V	8 902 811 069
V20, 21, 24, 28	Transistor BF 243 S	8 905 706 113	C80, 165,	10000 pF $\pm 20\%$ 160 V	8 902 913 601
V164	Transistor BC 258 A	8 905 706 285	168, 175		
V225/226, 230/231	Transistor AD 161/162	8 905 613 275	C81, 83	15000 pF $\pm 20\%$ 100 V	8 902 913 605
DIODES			C30, 33, 39, 55	22000 pF $\pm 10\%$ 100 V	8 902 913 309
X22, 23	Diode AA 119	8 905 305 023	210		
X24/25, 26, 27	Diode AA 112 (by pairs)	8 905 313 007	C21, 22, 25, 46,		
X102, 162	Diode AA 112	8 905 305 004	202, 204	0.068 $\mu\text{F} \pm 20\%$ 100 V	8 902 913 621
X28/29	Diode AA 119 (by pairs)	8 905 313 018	C60	0.1 $\mu\text{F} \pm 20\%$ 100 V	8 902 913 625
X30	Diode ZF 9.1	8 905 421 228	CERAMIC CAPACITORS		
X101	Diode BA 111 b	8 905 405 036	C123	1.5 pF $\pm 0.25\text{pF}$ 500 V	8 902 215 037
X160, 161, 163,	Diode 1 N 4148	8 905 405 822	C103	3 pF $\pm 0.25\text{pF}$ 500 V	8 902 230 025
164, 165, 166,			C120	4 pF $\pm 0.3\text{pF}$ 500 V	8 902 240 011
200, 202, 267			C121	5 pF $\pm 0.5\text{pF}$ 500 V	8 902 250 025
X220, 230	Diode ZG1	8 905 421 300	C102	5.6 pF $\pm 0.2\text{pF}$ 500 V	8 902 256 040
F 1/7	Pre-amplifier thick film	8 905 920 001	C34, 50	6.8 pF $\pm 0.5\text{pF}$ 40 V	8 902 268 034
F 10/15	RF thick film	8 905 920 000	C49, 113	10 pF $\pm 5\%$ 40 V	8 902 210 157
F20/31	Demodulator thick film	8 905 920 020		9.1 pF $\pm 0.5\text{pF}$ 250 V	8 902 291 001
F185/195	Thick film	8 905 920 002	C100, 112	12 pF $\pm 5\%$ 125 V	8 902 212 103
F175/184	Thick film	8 905 920 003	C61, 14	15 pF $\pm 5\%$ 125 V	8 902 215 120
F165/170	Thick film	8 905 920 004	C32	27 pF $\pm 5\%$ 30 V	8 902 227 131
F160/164	Thick film	8 905 920 005	C26, 45	33 pF $\pm 2\%$ 40 V	8 902 233 136
VOLUME CONTROL			C177	39 pF $\pm 10\%$ 125 V	8 902 239 151
R202, 204, 205	Volume control	8 901 481 003	C18	47 pF $\pm 5\%$ 160 V	8 902 247 120
SI 570	Fuse 2 A (5.2 x 20 mm)	1 904 521 441	C114	56 pF $\pm 5\%$ 160 V	8 902 256 115
Lp 402	Dial lamp 14 V 0.1 A	1 907 575 302	C122, 128	68 pF $\pm 5\%$ 125 V	8 902 268 120
R230, 253	Protecting lamp	8 901 350 201	C218, 230	82 pF $\pm 5\%$ 160 V	8 902 282 120
PACKING MATERIAL			C66	100 pF $\pm 2\%$ 165 V	8 902 210 230
	Packing carton	8 635 430 201	C20	120 pF $\pm 2\%$ 40 V	8 902 212 237
	Packing (1 piece)	8 635 420 121	C41	150 pF $\pm 2\%$ 250 V	8 902 215 225
	Packing (2 pieces)	8 635 420 110	C24	220 pF $\pm 5\%$ 160 V	8 902 222 227
TRIMMERS			C104, 116, 130	330 pF $\pm 20\%$ 250 V	8 902 233 220
C11Q, 124	3 - 9 pF	8 903 913 10c	C105/107	2 x 330 pF $\pm 50\%$ 125 V	8 902 233 235
C12	10 - 40 pF	8 903 910 101	C67, 68, 69	470 pF $\pm 10\%$ 40 V	8 902 247 232
C101	4.5 - 20 pF	8 903 913 103	C108, 174	1000 pF $\pm 20\%$ 125 V	8 902 210 381
C17	10 - 60 pF	8 903 910 100	C72, 76, 84,		
ELECTROLYTIC CAPACITORS			208, 209	1800 pF $\pm 10\%$ 40 V	8 902 218 330
C201, 206 216,	0.47 $\mu\text{F} \pm 50\%$ 35 V	8 903 700 606	C47, 75, 126	4700 pF $\pm 50\%$ 125 V	8 902 247 305
C226, 235, 236,			C125	10000 pF $\pm 50\%$ 125 V	8 902 210 401
173			C203, 207	10000 pF $\pm 80\%$ 250 V	8 902 210 440
C169, 212	1 $\mu\text{F} \pm 50\%$ 35 V	8 903 700 608	C23, 43, 44, 74, 56,		
C70, 71	4.7 $\mu\text{F} \pm 50\%$ 25 V	8 903 700 513	117, 129, 170	22000 pF $\pm 100\%$ 16 V	8 902 222 420
C73, 162	2.2 $\mu\text{F} \pm 50\%$ 16 V	8 903 700 510	C77	2200 pF $\pm 50\%$ 160 V	8 902 222 316
C78	10 $\mu\text{F} \pm 50\%$ 6 V	8 903 400 109	C227, 222	0.047 $\mu\text{F} \pm 100\%$ 30 V	8 902 247 408
C29	10 $\mu\text{F} \pm 10\%$ 16 V	8 903 470 305	RESISTORS		
C58, 59, 215,	22 $\mu\text{F} \pm 50\%$ 16 V	8 903 700 317	R222, 245	10 Ohms $\pm 10\%$ 0.125 W	8 900 303 101
225, 79			R231	22 Ohms $\pm 10\%$ 0.125 W	8 900 303 221
C160	4.7 $\mu\text{F} \pm 50\%$ 25 V	8 903 700 513	R224, 247	39 Ohms $\pm 10\%$ 0.125 W	8 900 303 391
C229, 217	47 $\mu\text{F} \pm 50\%$ 63 V	8 903 700 120	R225, 248	47 Ohms $\pm 10\%$ 0.125 W	8 900 303 471
C221, 231	100 $\mu\text{F} \pm 50\%$ 15 V	8 903 406 307	R235	82 Ohms $\pm 10\%$ 0.125 W	8 900 303 821
C219, 234	200 $\mu\text{F} \pm 50\%$ 15 V	8 903 405 339	R22, 31, 48,	100 Ohms $\pm 5\%$ 0.2 W	8 900 301 102
	continued		228, 251		

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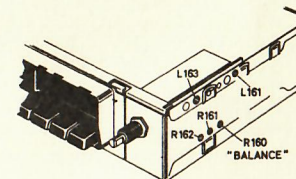
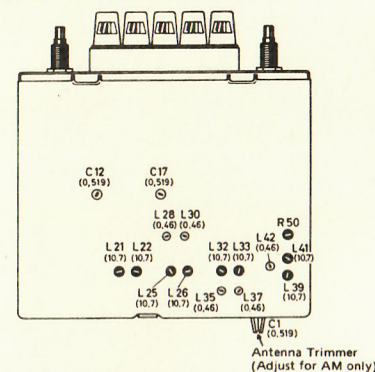
BLAUPUNKT CAR RADIO Frankfurt Stereo US

Spare Parts List

REF. NO.	DESCRIPTION	ORDER NO.	REF. NO.	DESCRIPTION	ORDER NO.
RESISTORS - continued			RESISTORS - continued		
R115, 250	150 Ohms $\pm 5\%$ 0.2 W	8 900 301 152	R200, 210, 208,		
R227	150 Ohms $\pm 10\%$ 0.125 W	8 900 303 152	209	47 kOhms $\pm 10\%$ 0.125 W	8 900 303 474
R39, 46, 47	120 Ohms $\pm 5\%$ 0.2 W	8 900 301 112	R38	56 kOhms $\pm 5\%$ 0.2 W	8 900 301 564
R226, 249	270 Ohms $\pm 10\%$ 0.125 W	8 900 303 272	R207	68 kOhms $\pm 5\%$ 0.2 W	8 900 301 684
R36, 45	470 Ohms $\pm 5\%$ 0.2 W	8 900 301 472	R114	100 kOhms $\pm 5\%$ 0.2 W	8 900 301 105
R221, 241	680 Ohms $\pm 5\%$ 0.125 W	8 900 303 682	R113, 218, 238	180 kOhms $\pm 10\%$ 0.125 W	8 900 303 185
R53	1 kOhms $\pm 5\%$ 0.2 W	8 900 301 103	R1	470 kOhms $\pm 5\%$ 0.2 W	8 900 301 475
R105, 223, 246	1.2 kOhms $\pm 5\%$ 0.2 W	8 900 301 123	R217, 237	270 kOhms $\pm 10\%$ 0.125 W	8 900 301 275
R106, 33	1.5 kOhms $\pm 10\%$ 0.125 W	8 900 301 153	R34	220 kOhms $\pm 5\%$ 0.2 W	8 900 301 225
R21, 26, 41, 35,			R25	8.2 kOhms $\pm 10\%$ 0.125 W	8 900 303 823
102	2.2 kOhms $\pm 5\%$ 0.2 W	8 900 301 273	R37	1 MOhms $\pm 5\%$ 0.2 W	8 900 301 106
R30	2.7 kOhms $\pm 5\%$ 0.2 W	8 900 301 273	R206	1 MOhms $\pm 10\%$ 0.125 W	8 900 303 106
R107	3.3 kOhms $\pm 5\%$ 0.2 W	8 900 301 333	ADJUSTER		
R29	3.9 kOhms $\pm 5\%$ 0.2 W	8 900 301 393	R50, 161, 162	5 kOhms	8 901 509 123
R201	4.7 kOhms $\pm 10\%$ 0.2 W	8 900 301 473	R24	50 kOhms	8 901 509 127
R211	4.7 kOhms $\pm 10\%$ 0.125 W	8 900 303 473	R160	100 kOhms	8 901 509 131
R32, 220, 240	8.2 kOhms $\pm 5\%$ 0.2 W	8 900 301 823	R40	10 kOhms	8 901 509 125
R109, 104, 212	6.8 kOhms $\pm 5\%$ 0.2 W	8 900 301 683	THERMISTOR		
R216, 236	10 kOhms $\pm 10\%$ 0.125 W	8 900 303 104	R229, 252	47 Ohms $\pm 20\%$ 1 W	8 901 326 203
R219, 239	10 kOhms $\pm 5\%$ 0.2 W	8 900 301 104			
R42	15 kOhms $\pm 5\%$ 0.2 W	8 900 301 154			
R101	12 kOhms $\pm 5\%$ 0.2 W	8 900 301 124			
R49, 163, 164	33 kOhms $\pm 5\%$ 0.2 W	8 900 301 334			
	continued				

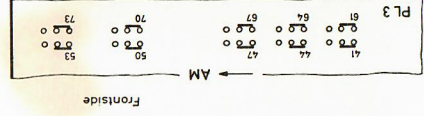
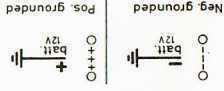
Position of Alignment Points

Values in brackets: alignment frequencies in MHz.

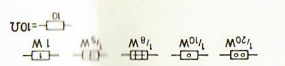
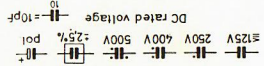


Bands	U _{osc} - mV	f _{min} , f _{max} , MHz	FM, 87-108 MHz	AM, 0.515-1.640 MHz
IF	10.7	120	10.7	0.460
		180		
		110		

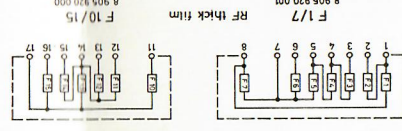
Measuring values related to U_{Batt} = 14V
Modifications reserved!



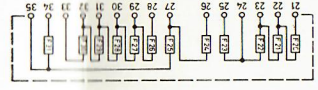
FM-AM band switch (seen from soldering side), shown in position: FM



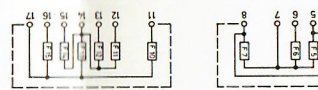
F 20/31 Demodulator thick film



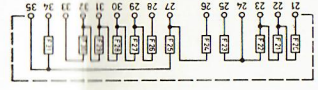
F 10/15 RF thick film



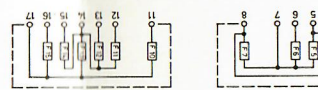
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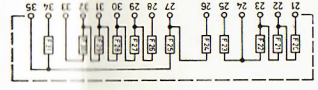
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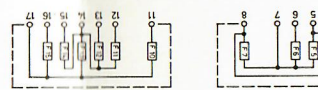
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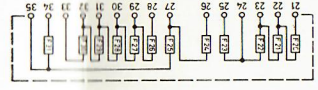
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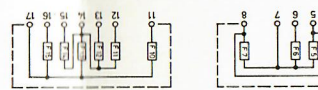
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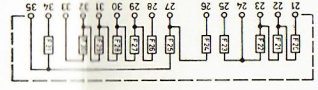
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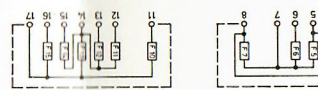
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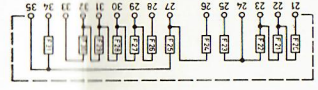
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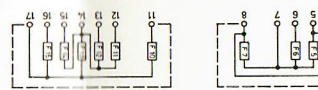
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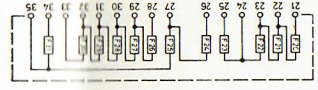
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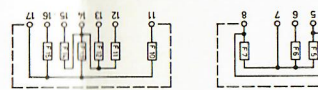
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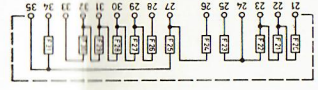
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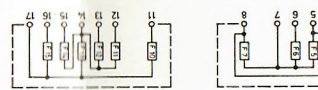
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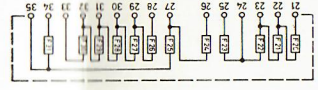
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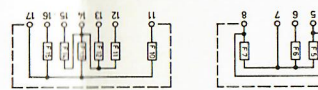
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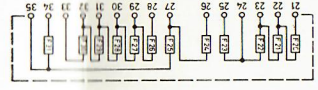
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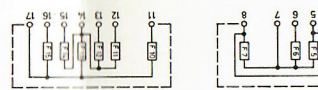
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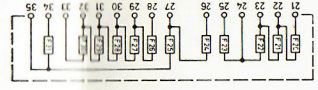
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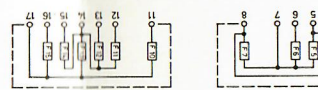
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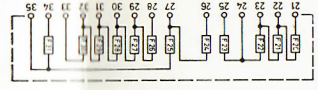
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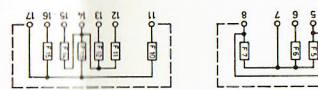
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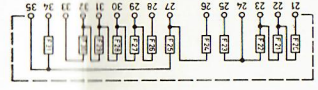
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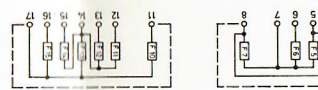
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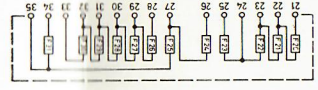
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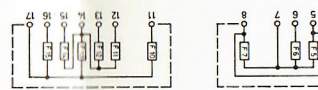
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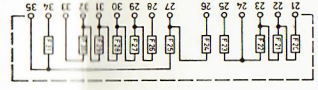
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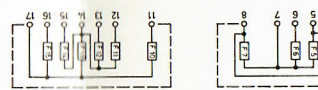
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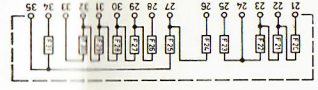
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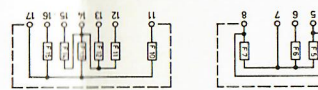
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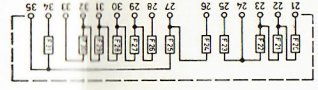
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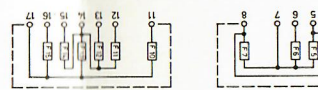
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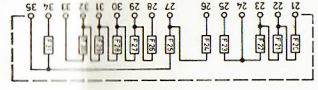
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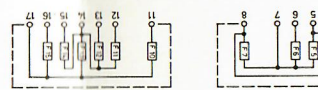
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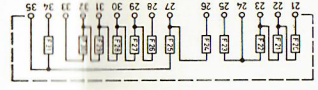
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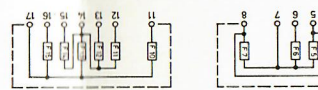
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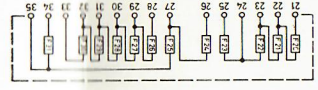
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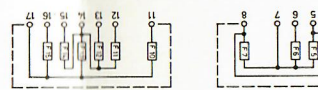
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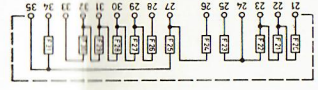
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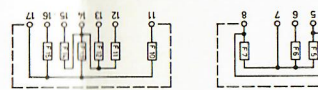
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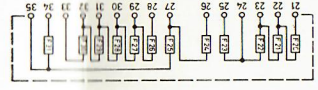
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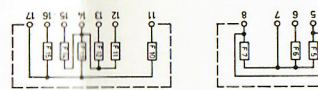
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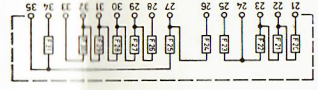
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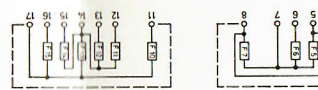
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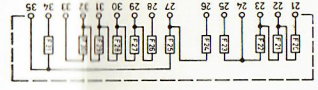
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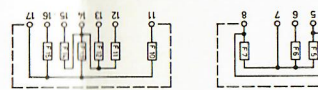
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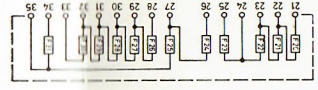
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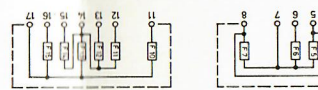
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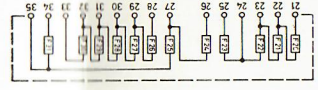
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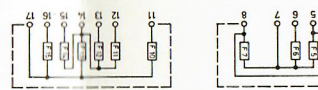
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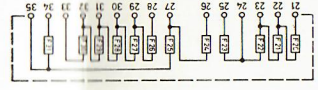
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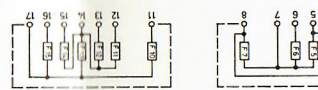
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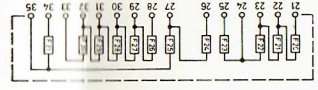
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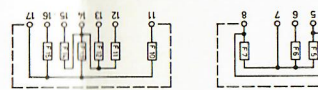
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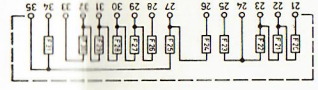
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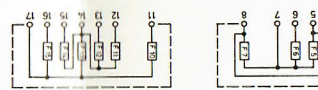
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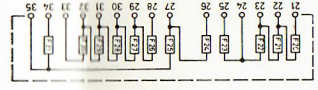
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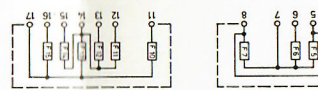
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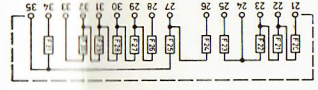
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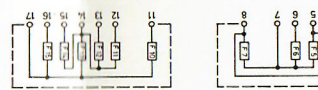
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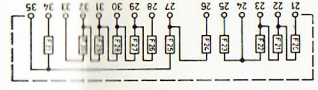
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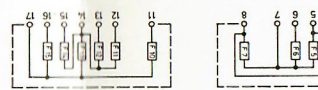
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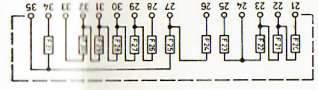
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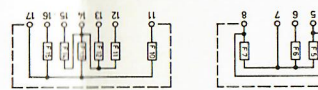
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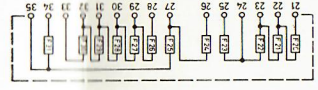
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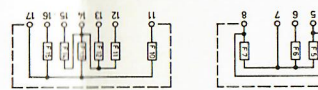
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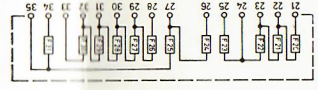
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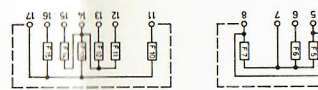
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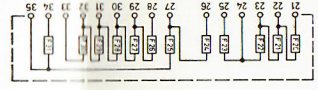
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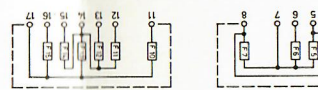
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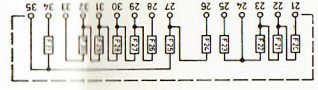
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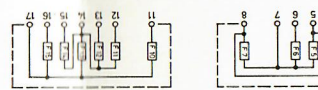
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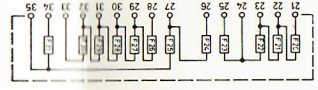
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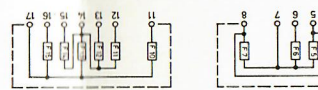
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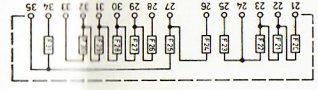
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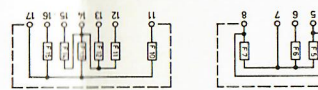
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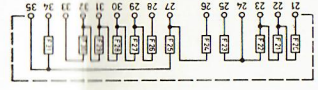
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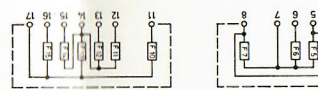
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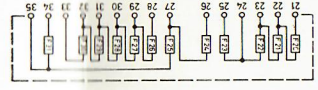
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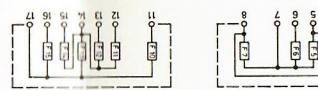
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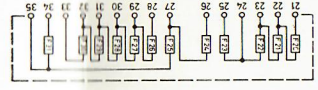
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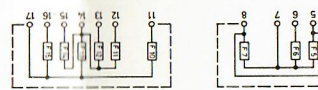
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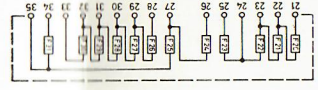
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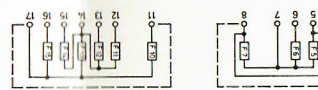
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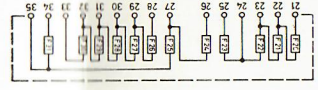
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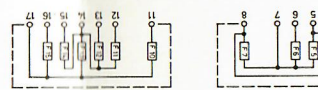
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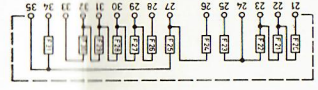
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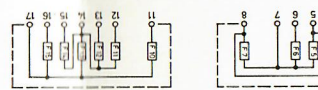
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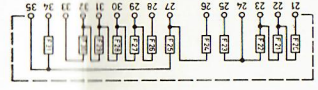
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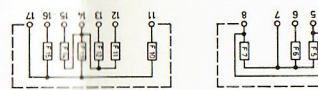
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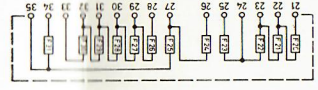
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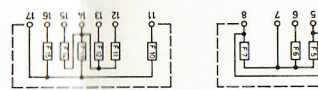
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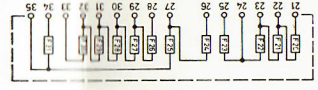
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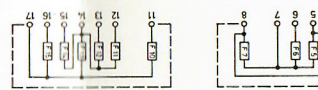
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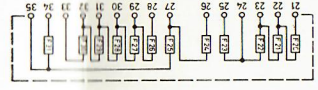
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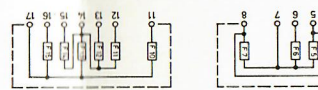
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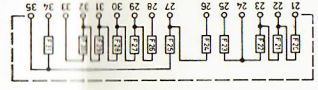
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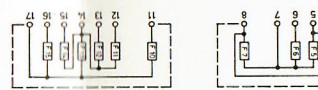
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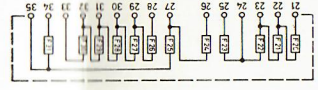
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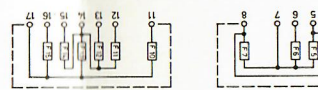
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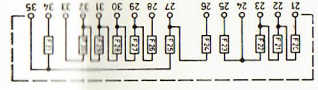
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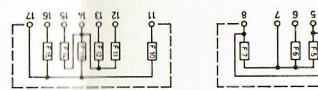
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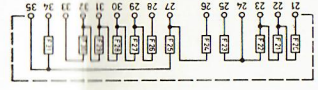
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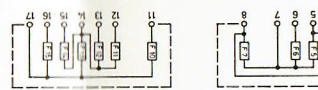
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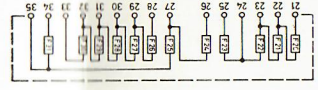
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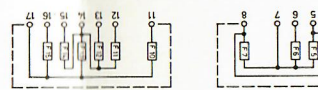
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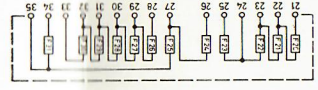
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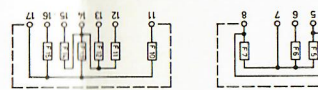
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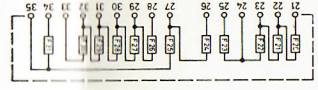
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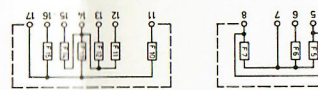
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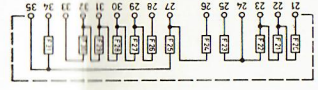
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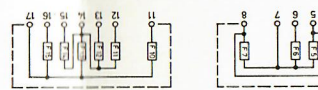
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