



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

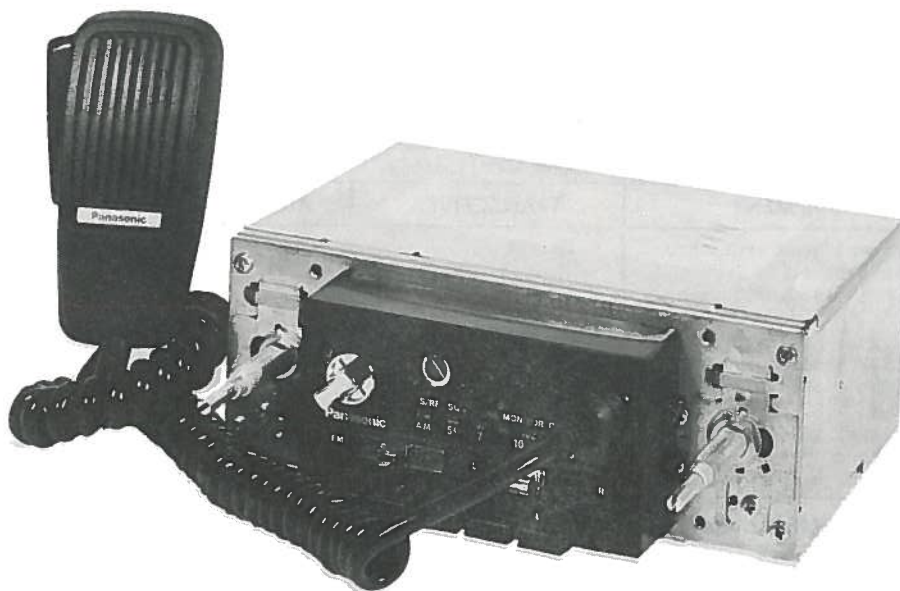
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL CR-B1717EU

PANASONIC MODEL CR-B1717EU

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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6CN410

CB ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Adjustments made with 14-volt DC input. Connect low sides of test equipment to ground unless specified otherwise. Connect 50-ohm dummy load or antenna before keying transmitter. Suggested Alignment Tools: GC Electronics:
 L903, L905.....9440
 C55, C63, C73, C102, C108, C114.....5000, 8290
 IFT51, IFT101, IFT102, IFT151, IFT152, IFT801 thru IFT804,
 T151, T152, T801, T802, T803, T902, T903, T904, L104.....8728

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Inputs of frequency counter and RF VTVM to T803 secondary.	Ch. 13	T803	Adjust for 37.750MHz at 60% of maximum output.
Input of frequency counter to T803 secondary.	Ch. 17 Ch. 21 Ch. 1 Ch. 5 Ch. 9		Check for 37.800MHz. Check for 37.850MHz. Check for 37.600MHz. Check for 37.650MHz. Check for 37.700MHz.
Input of frequency counter to TR809 emitter.	Delta Tune-mid-position Ch. 1 Ch. 2 Ch. 3 Ch. 4		Check for 10.180MHz. Check for 10.170MHz. Check for 10.160MHz. Check for 10.140MHz.
Input of frequency counter to TR904 emitter.	Ch. 1, Xmit Ch. 2, Xmit Ch. 3, Xmit Ch. 4, Xmit		Check for 10.635MHz. Check for 10.625MHz. Check for 10.615MHz. Check for 10.595MHz.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil. Adjust volume control to obtain a suitable indication. Set generator output low enough to prevent AGC limiting.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TR803 base. 455kHz, 1000Hz @ 30% modulation.	Ch. 13	IFT804, IFT803	Adjust for maximum.
Output of signal generator thru .01uF to TR802 base. 10.6MHz, 1000Hz @ 30% modulation.	Ch. 13	IFT802, IFT801	Adjust for maximum.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 13	T802, T801	Adjust for maximum. Repeat above steps, if necessary.

TRANSMITTER ALIGNMENT

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector. NOTE: Be sure to check transmit frequency and power on all active channels after alignment or adjustments of transmitter.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 13	T904, T903, T902, L905, L903	Adjust for maximum.
	Ch. 13	L903, L905	Adjust for 4 watts maximum.

TRANSMITTER ADJUSTMENTS

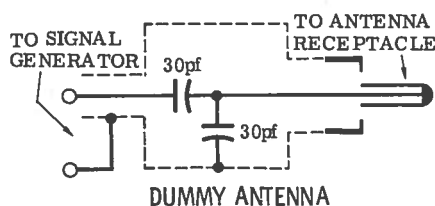
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector. NOTE: Be sure to check transmit frequency and power on all active channels after alignment or adjustments of transmitter.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation indicator to antenna jack. Inject a 1000Hz audio signal at MIC input. Output at 2mV.	Ch. 13	VR902	MIC GAIN Adjust for 100% modulation.

AM-FM ALIGNMENT INSTRUCTIONS

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to ant. input, low side to ground.	450kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	IFT102, IFT101	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C114, C108, C102	"
Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	L104	Adjust for maximum. Repeat alignment until no further improvement is noted.

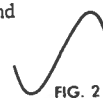
With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust C102 for maximum output. Antenna adjustment C102 is located on front to right of pushbutton.



FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .1uF to antenna jack. Use only enough marker signal for indication. Use 60-hertz, frequency-modulated signal, 450kHz sweep. Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to TPA.	(1) IFT51, IFT151, IFT152	Adjust for maximum amplitude and straightness of line. See Fig. 2.



(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

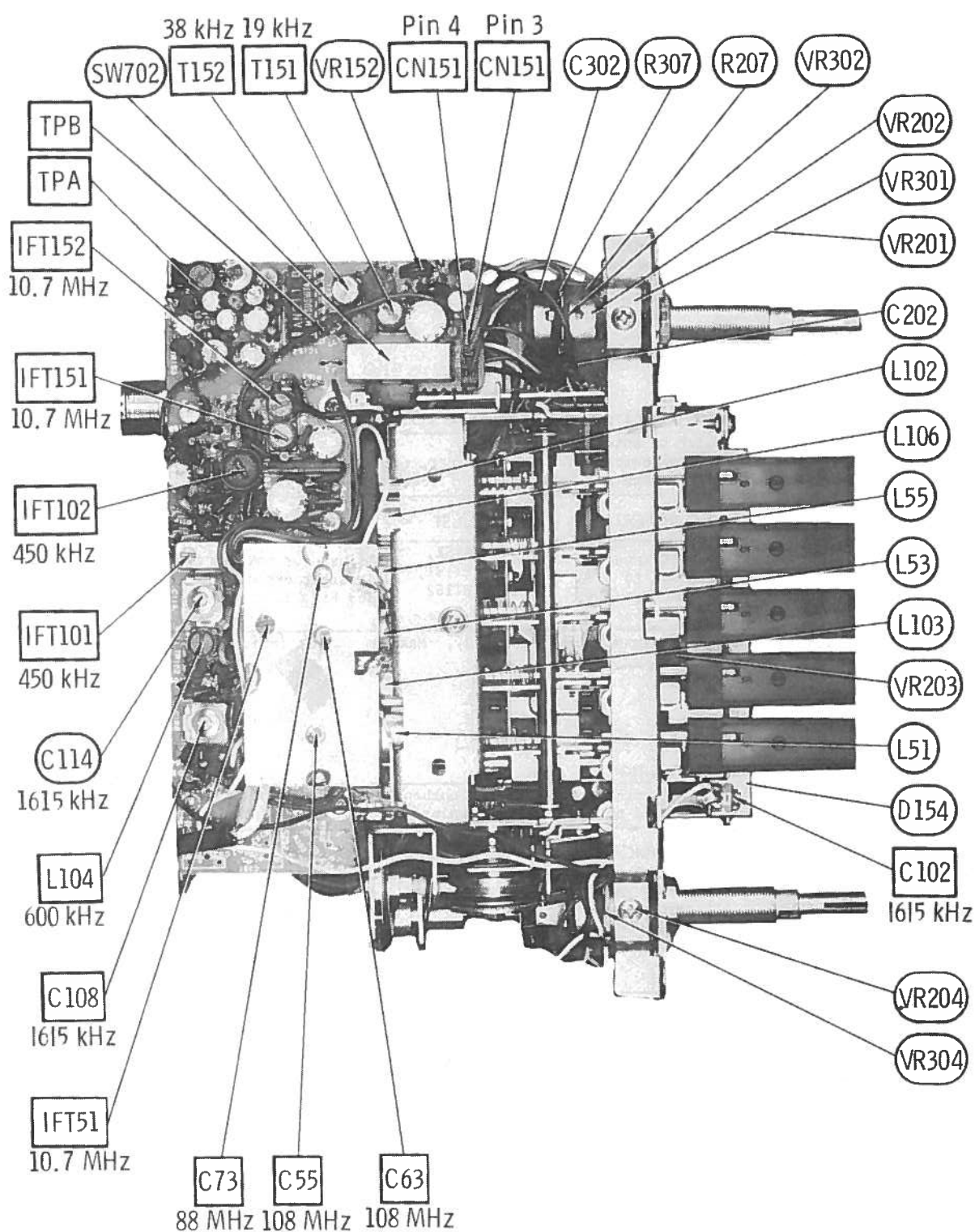
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Unmodulated	88MHz	Output meter across voice coil.	C73	Adjust for maximum.
108MHz Unmodulated	108MHz	"	C63, C55	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

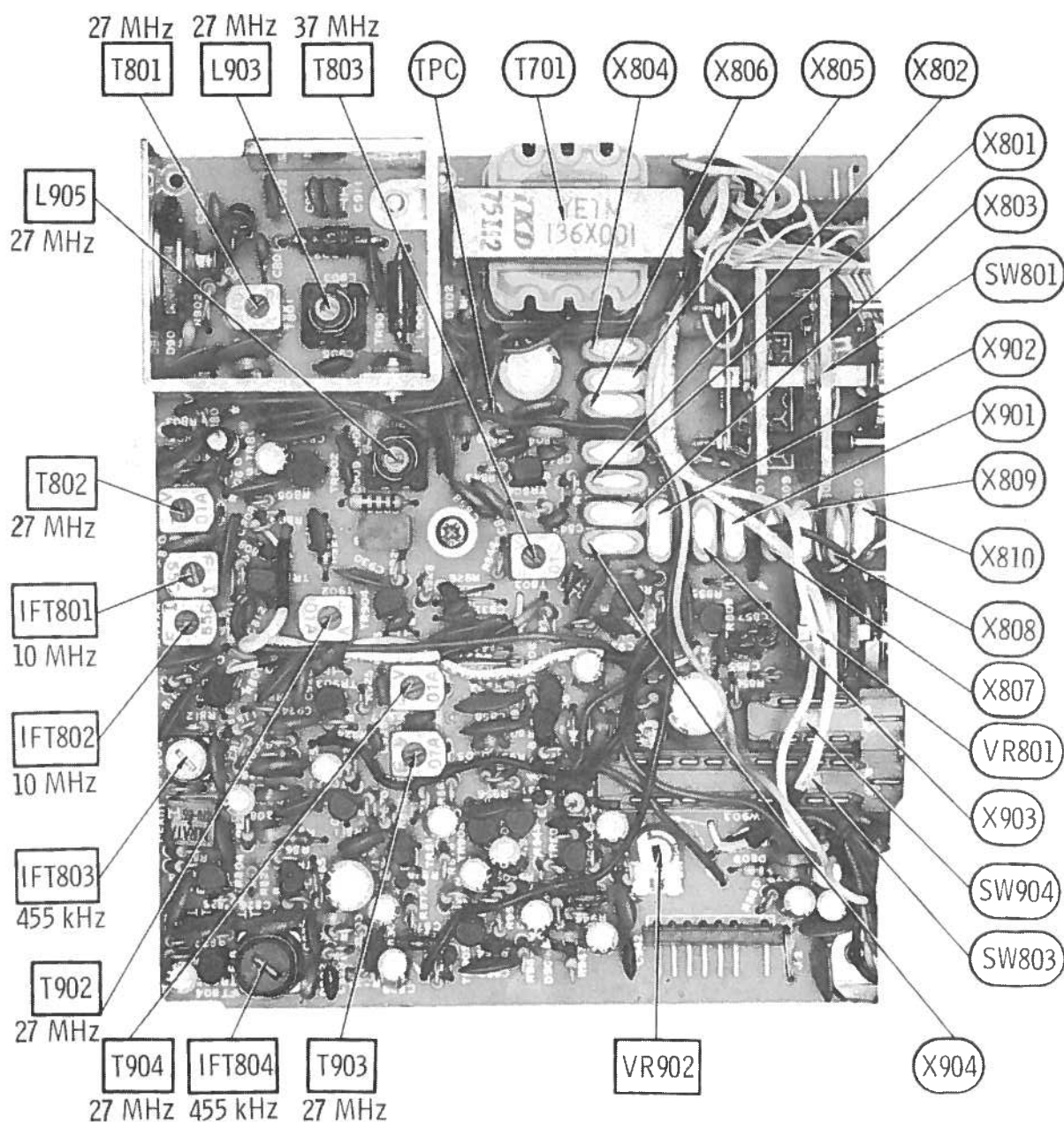
FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR (± .0001% ACCURACY)

High side of generator thru 47K to TPA.

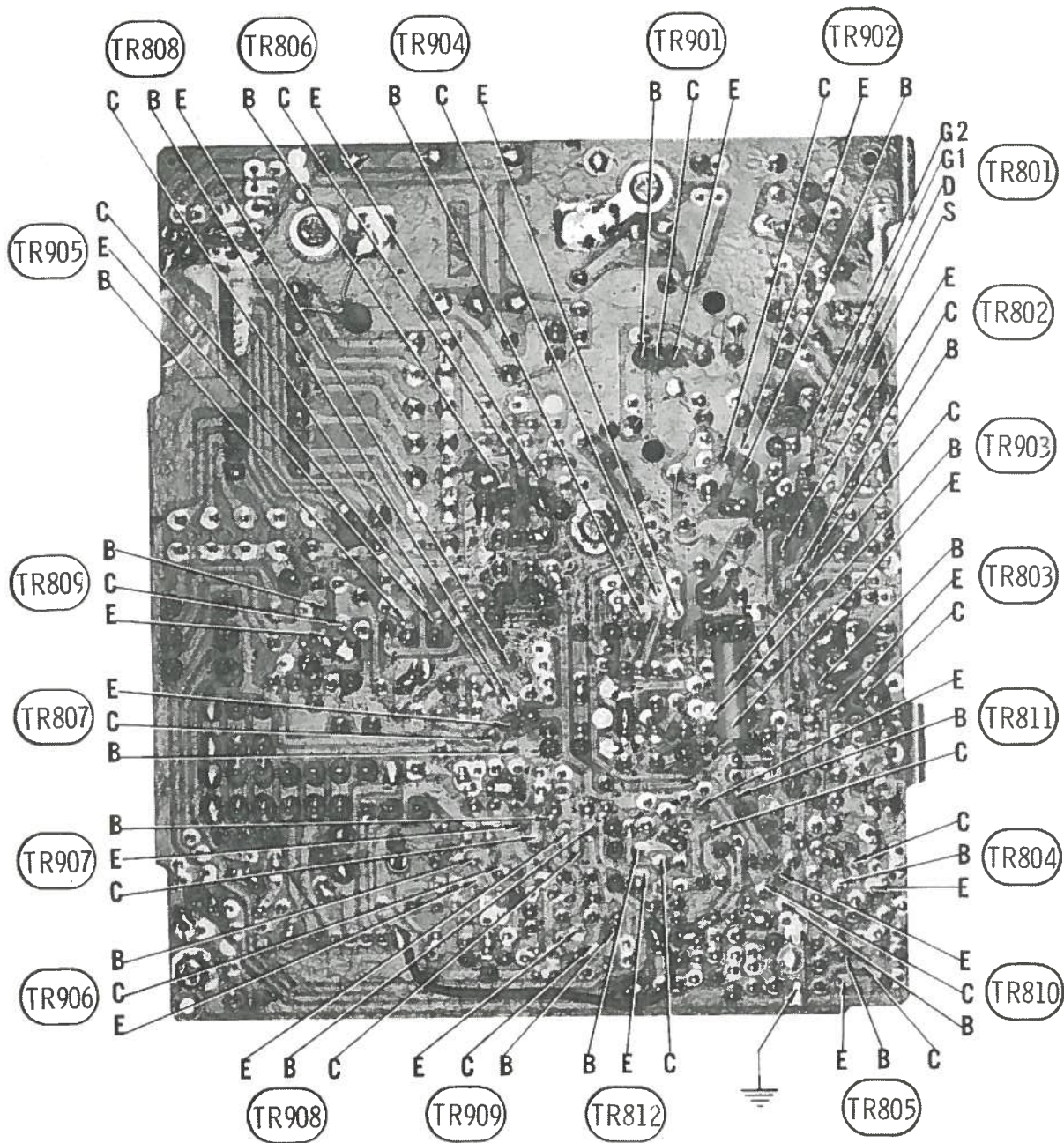
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
19kHz	Vert input of scope thru 47K to TPB.	T151	Adjust for maximum.
Modulated Left Channel	Vert input of scope to CN151 Pin 3.	T152, VR152	Adjust for MINIMUM. This step should require only slight adjustment.
Modulated Right Channel	Vert input of scope to CN151 Pin 4.		Check for MINIMUM. If necessary, make compromise adjustment of T152, VR152.



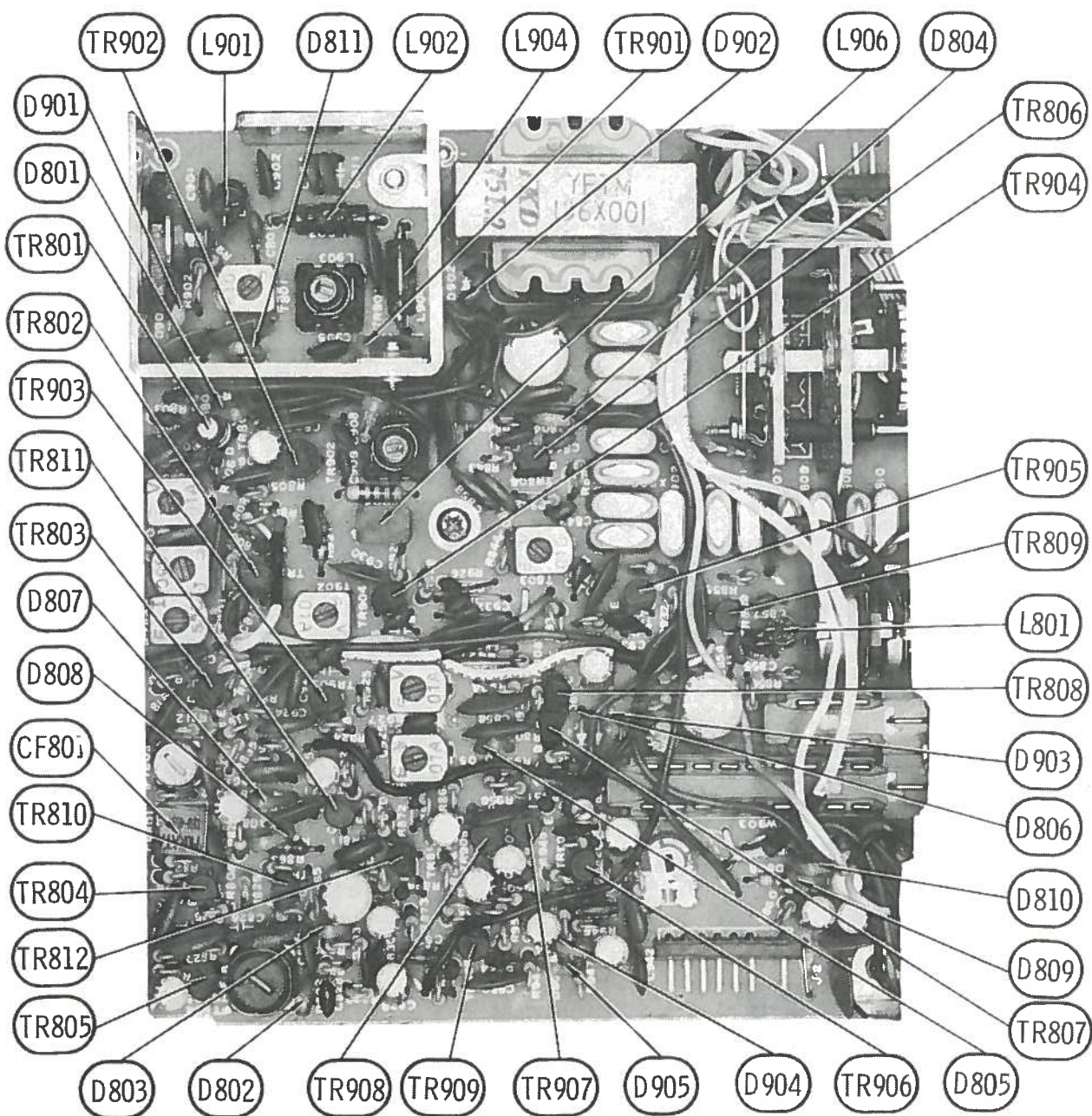
CHASSIS - BOTTOM



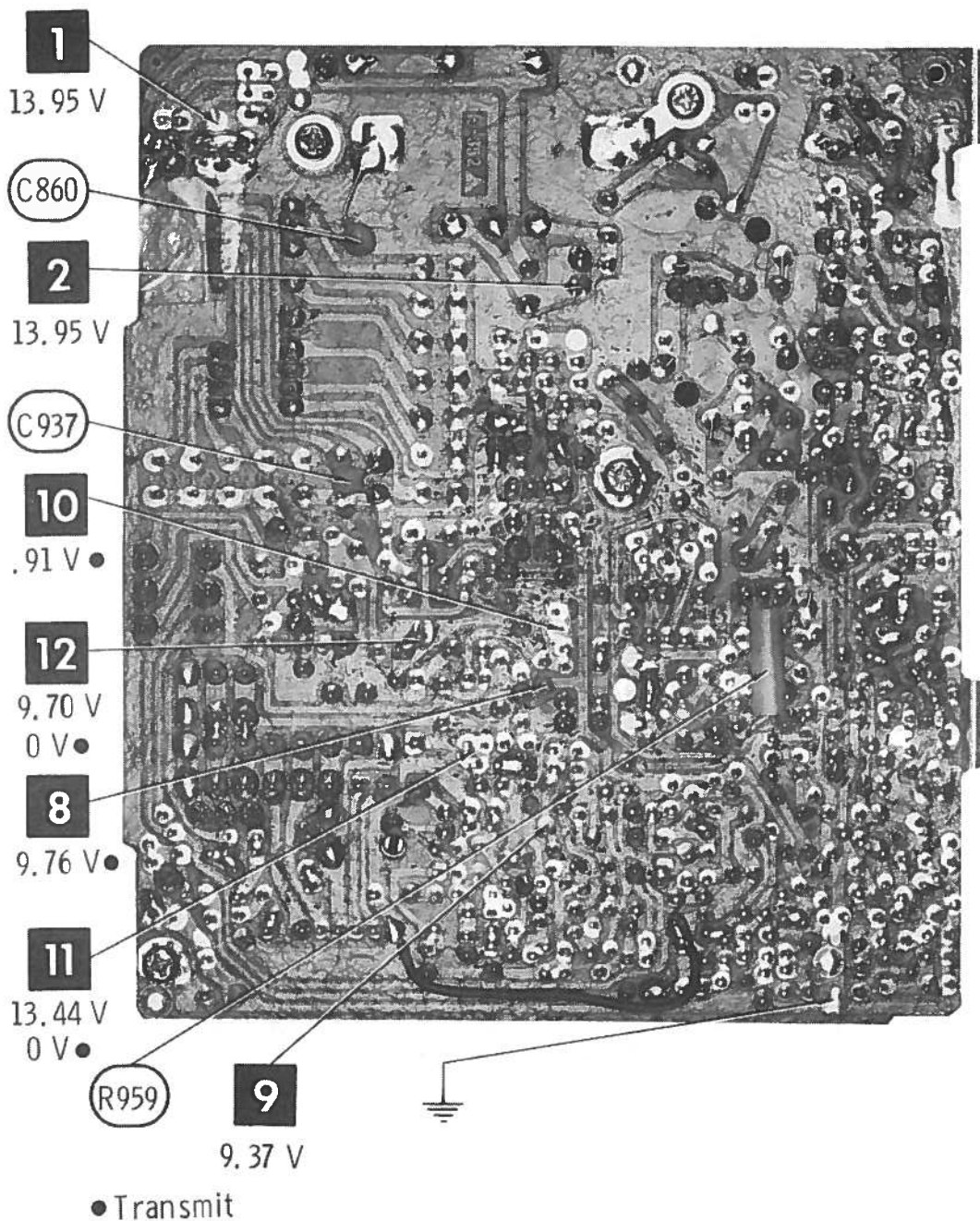
CB BOARD



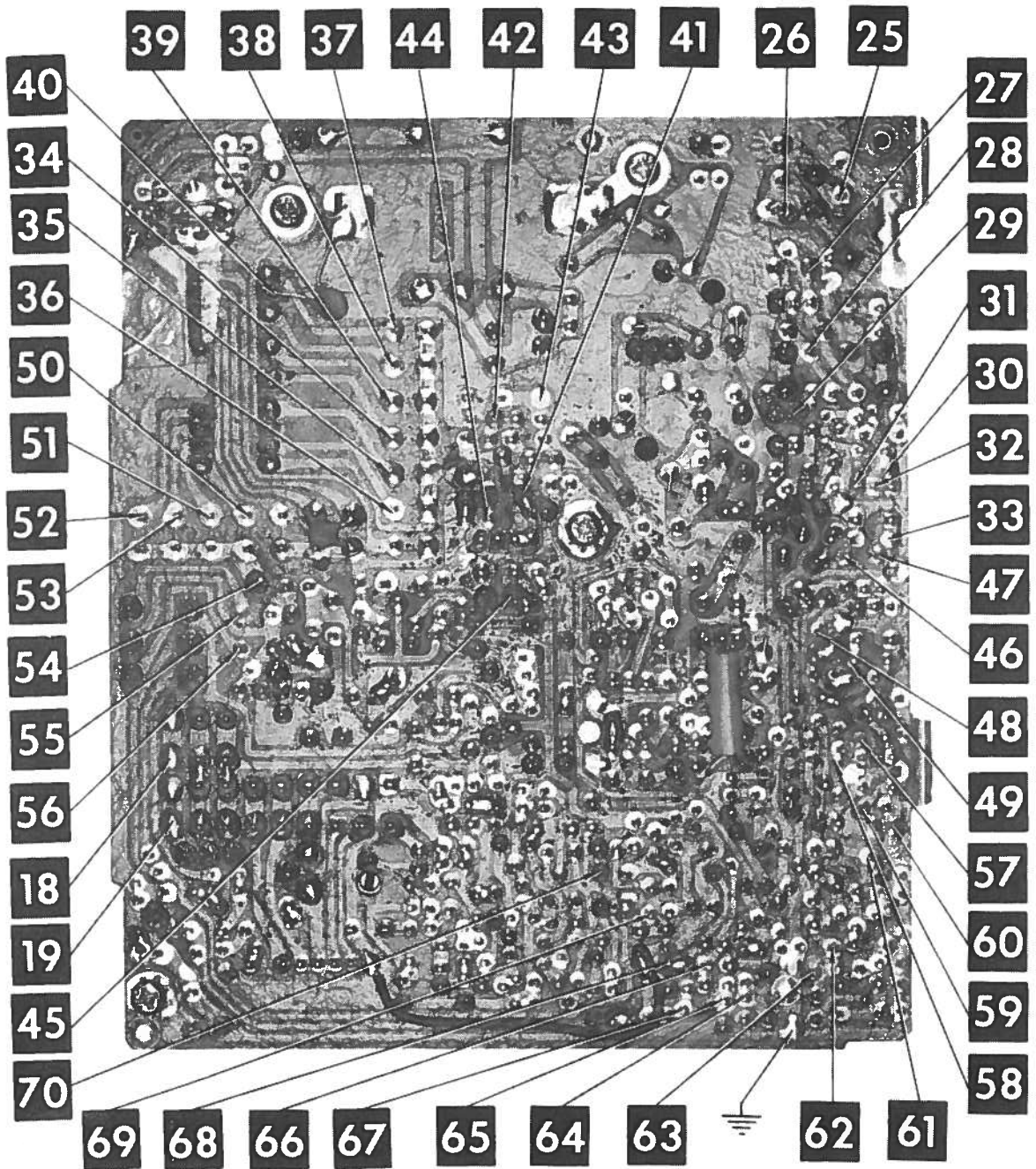
CB BOARD



CB BOARD

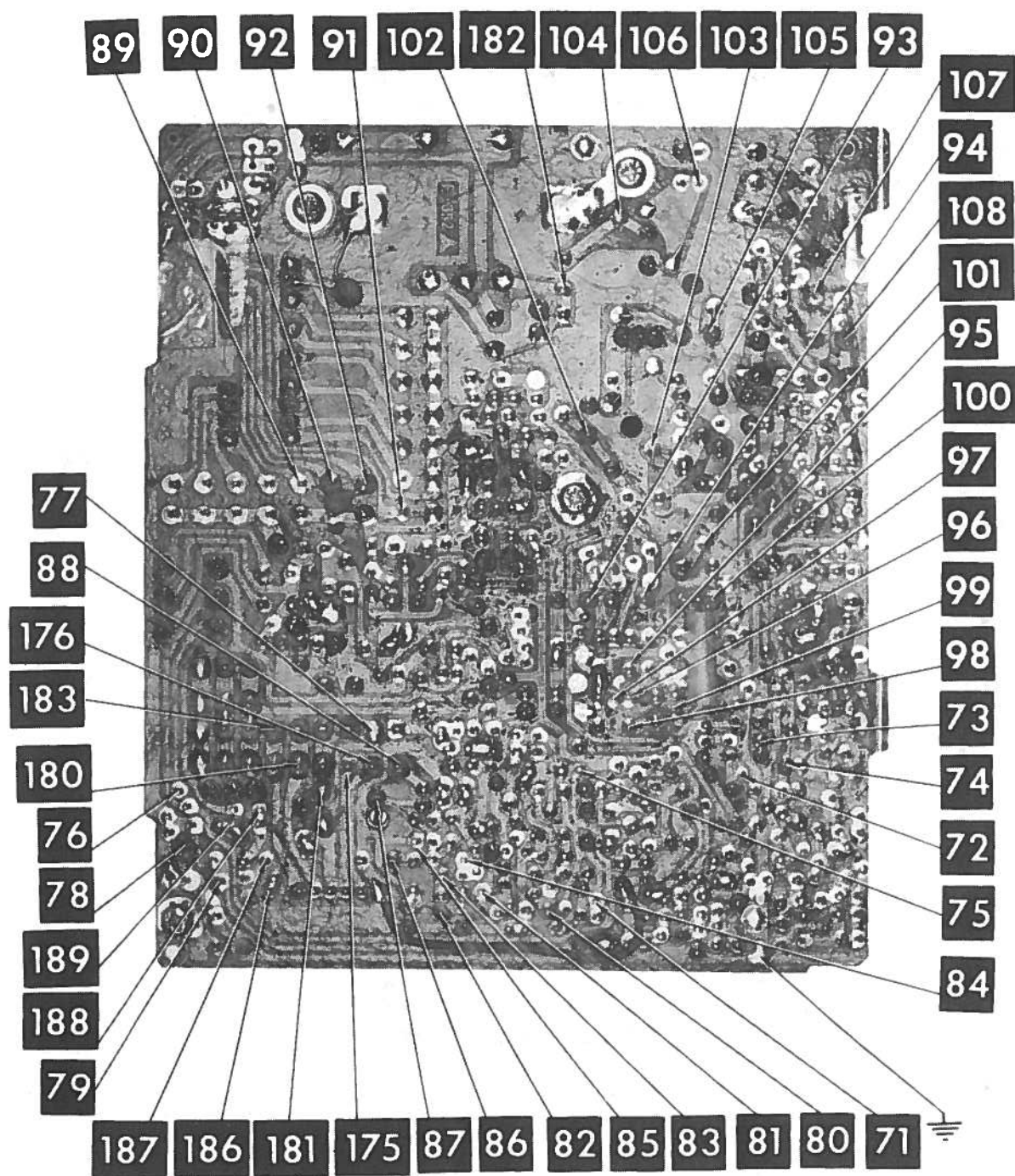


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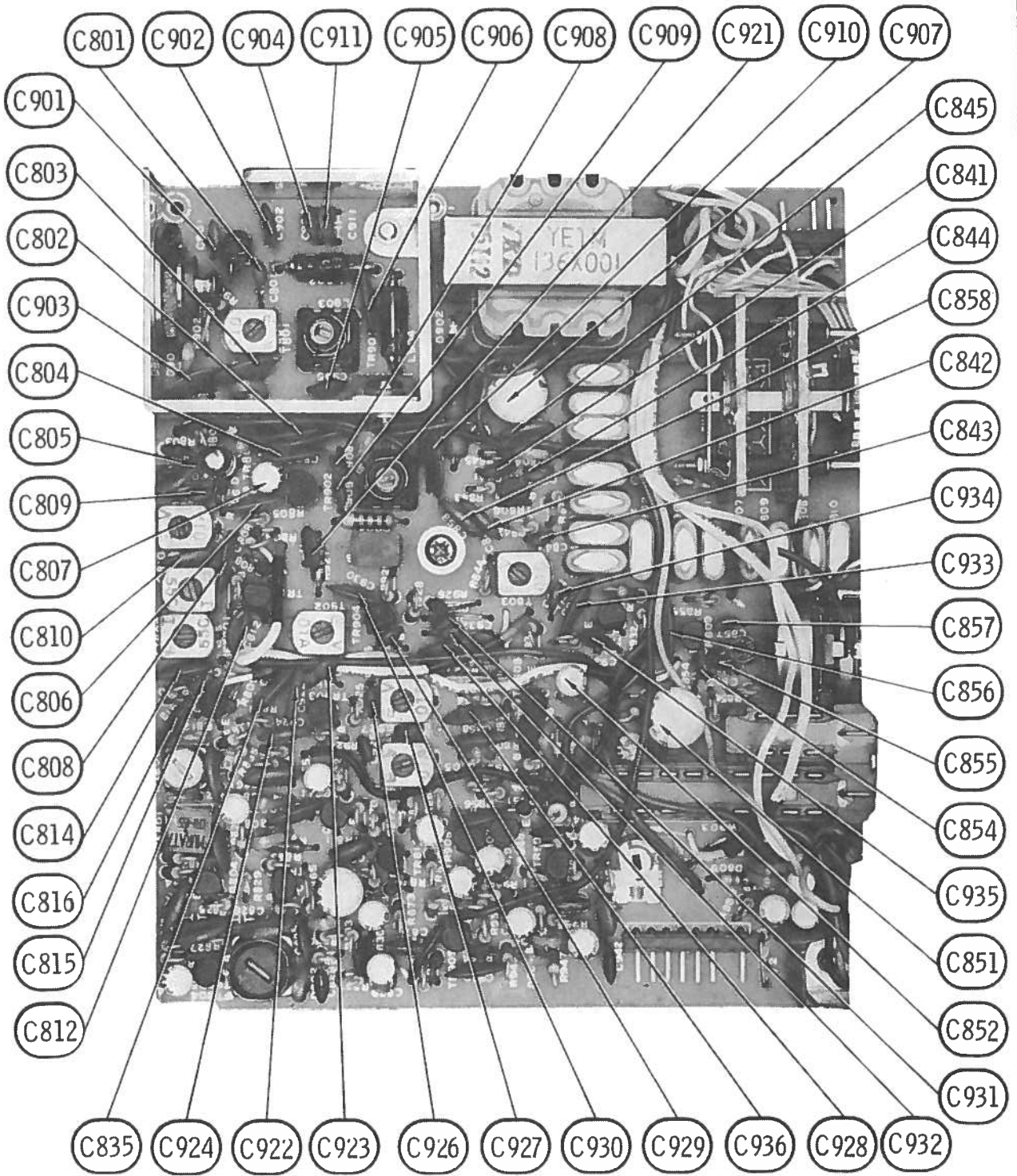


PANASONIC MODEL CR-B171ZEU

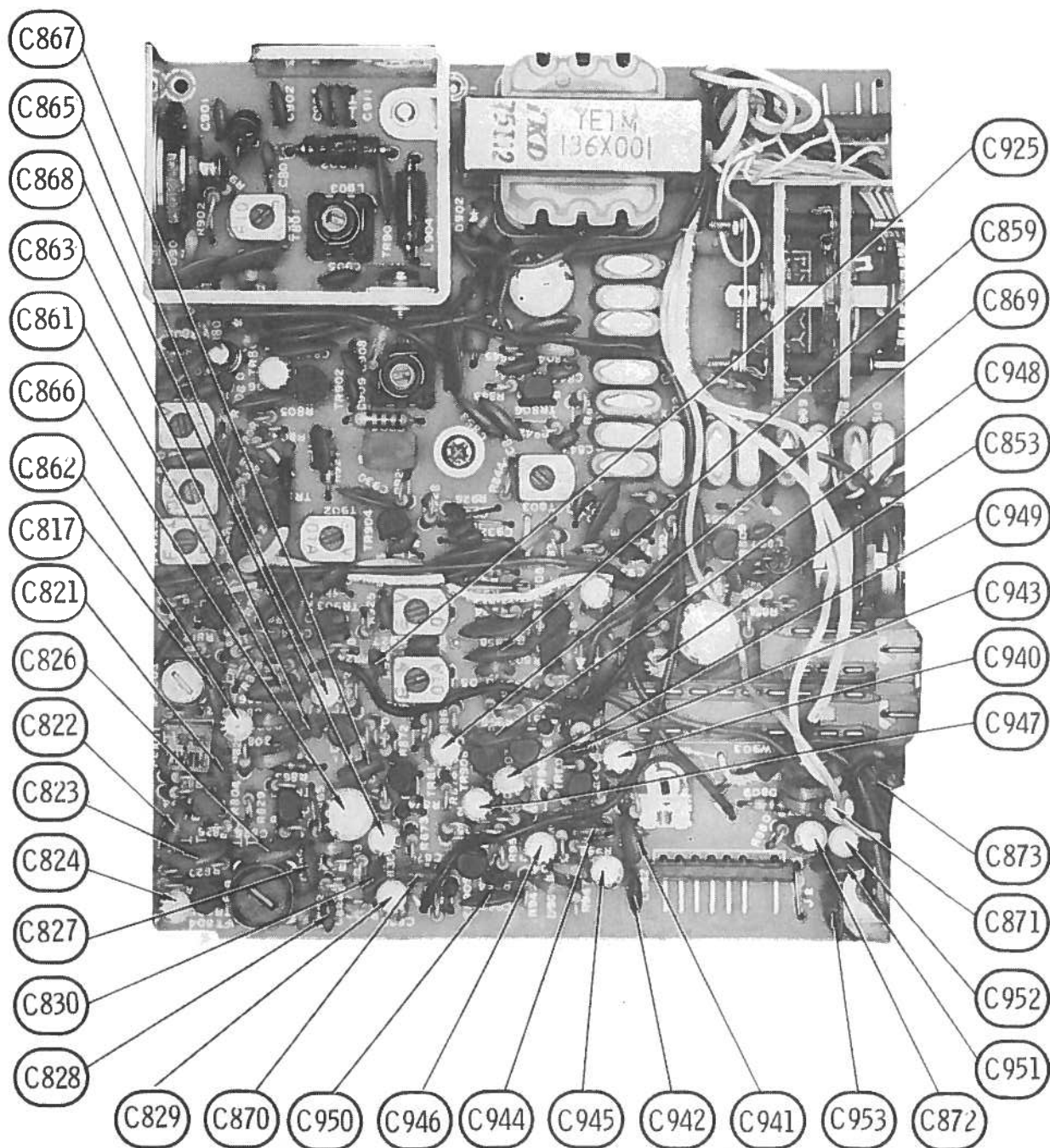
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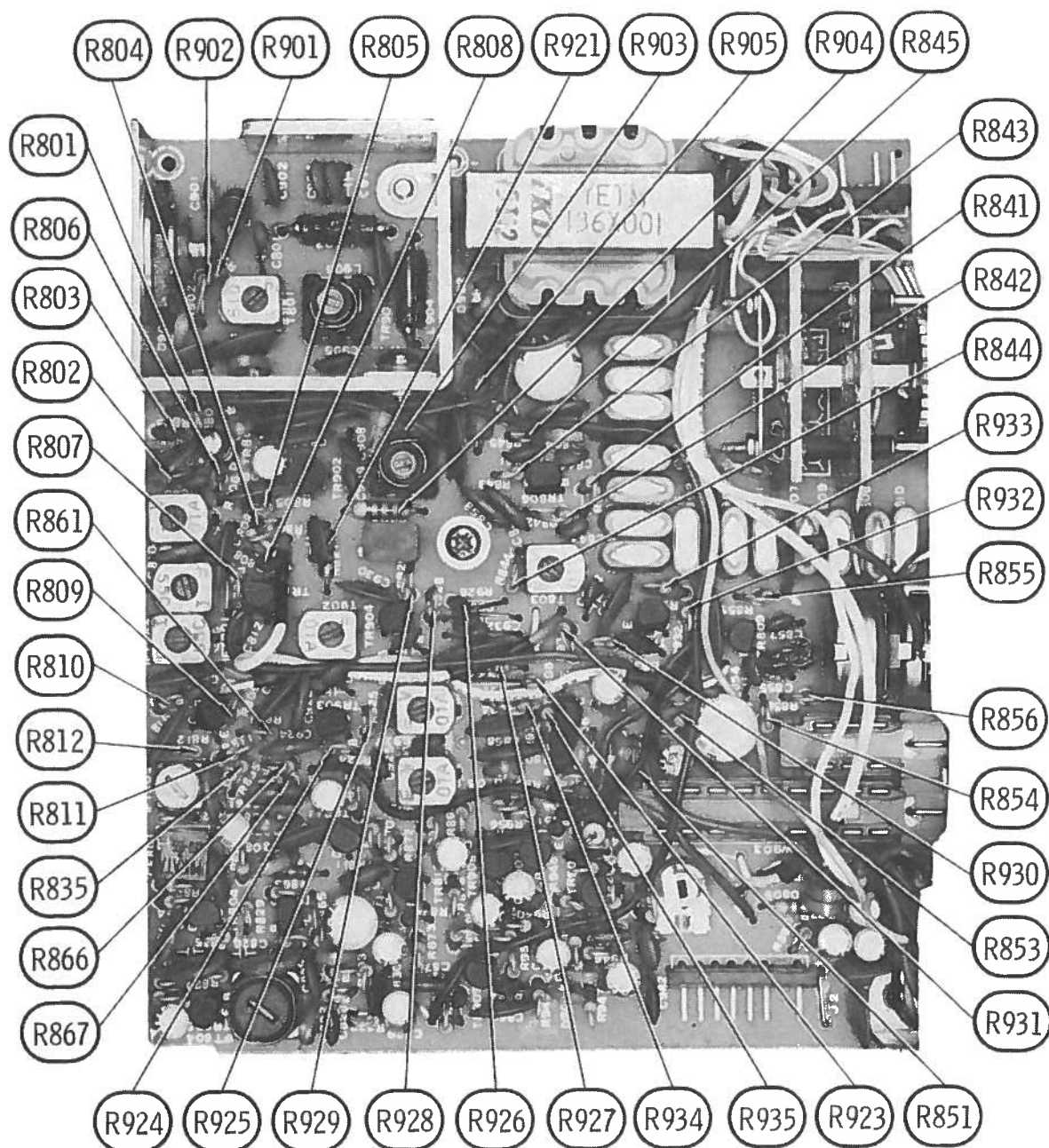
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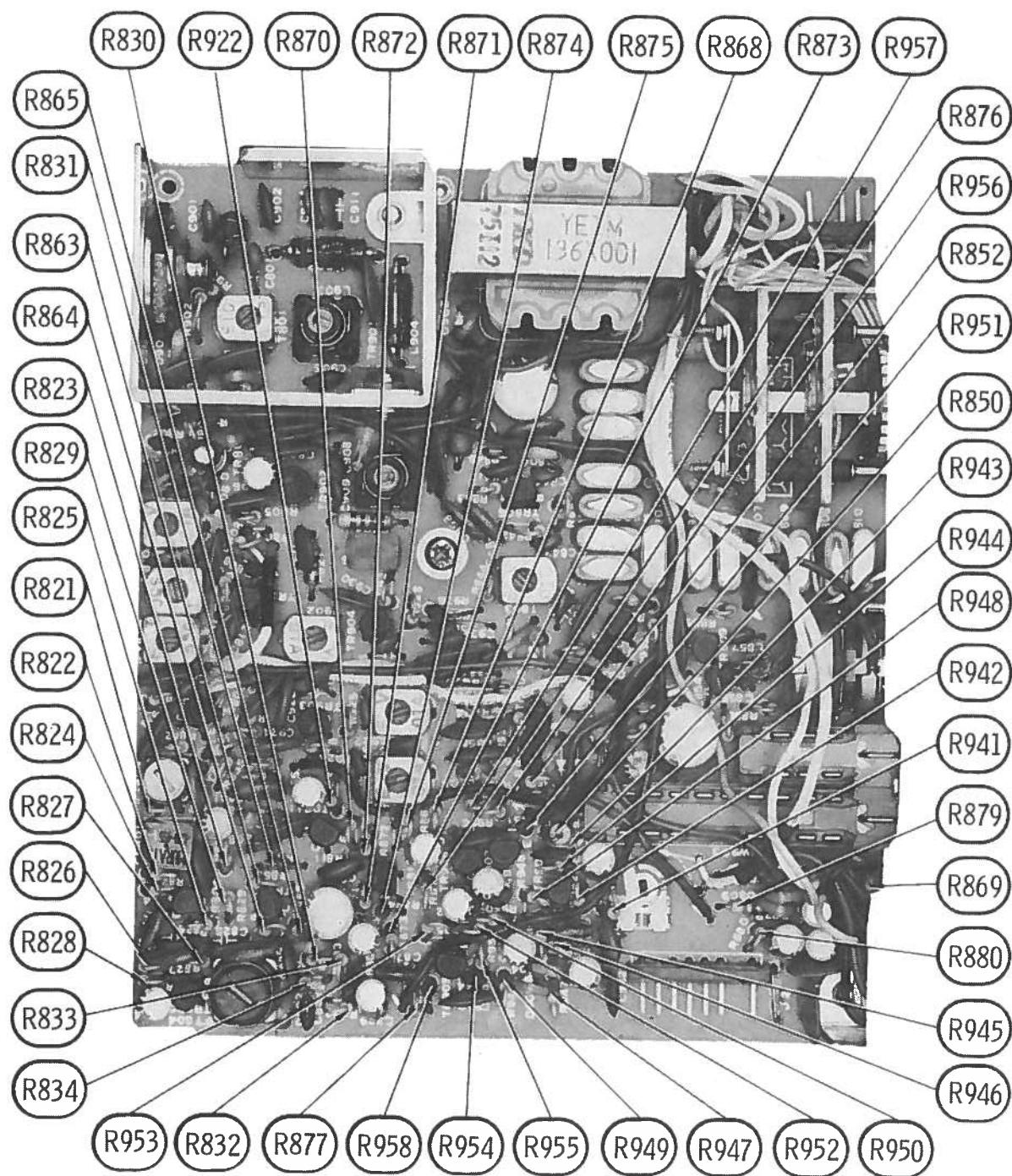
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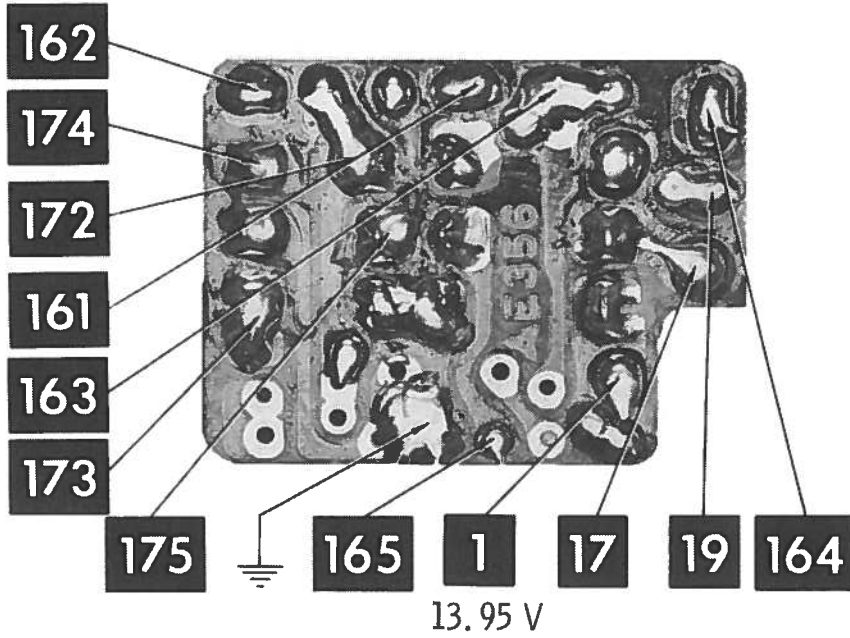
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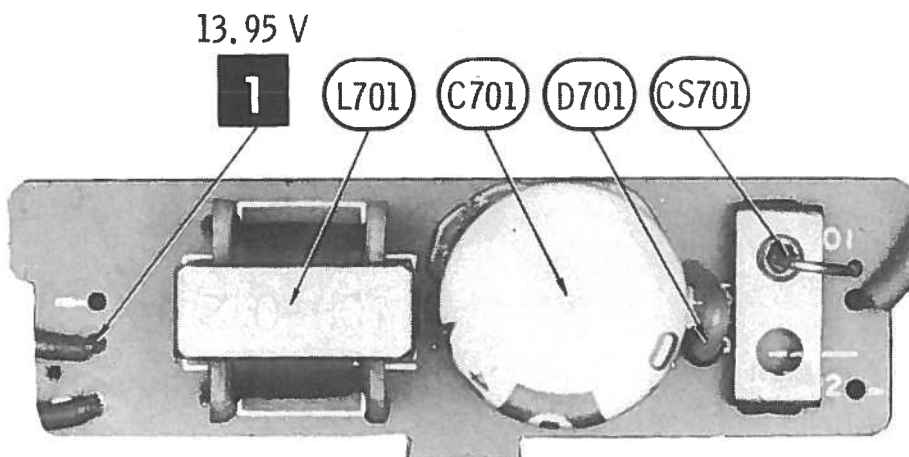
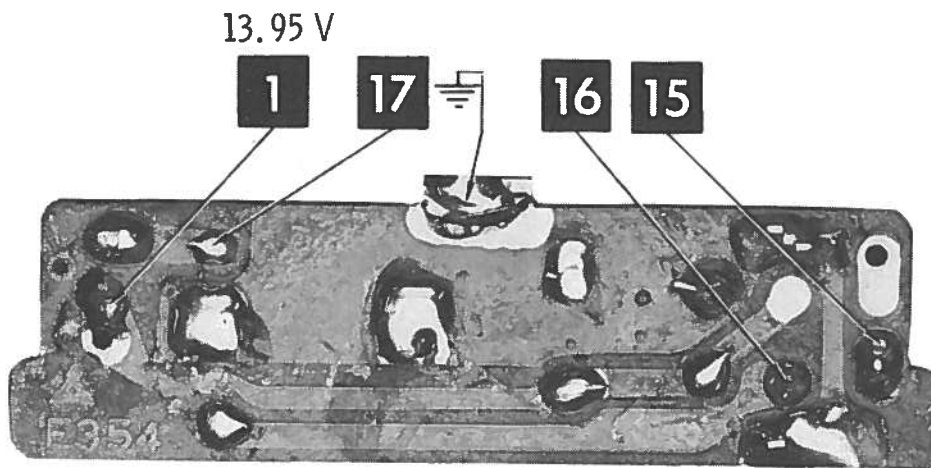
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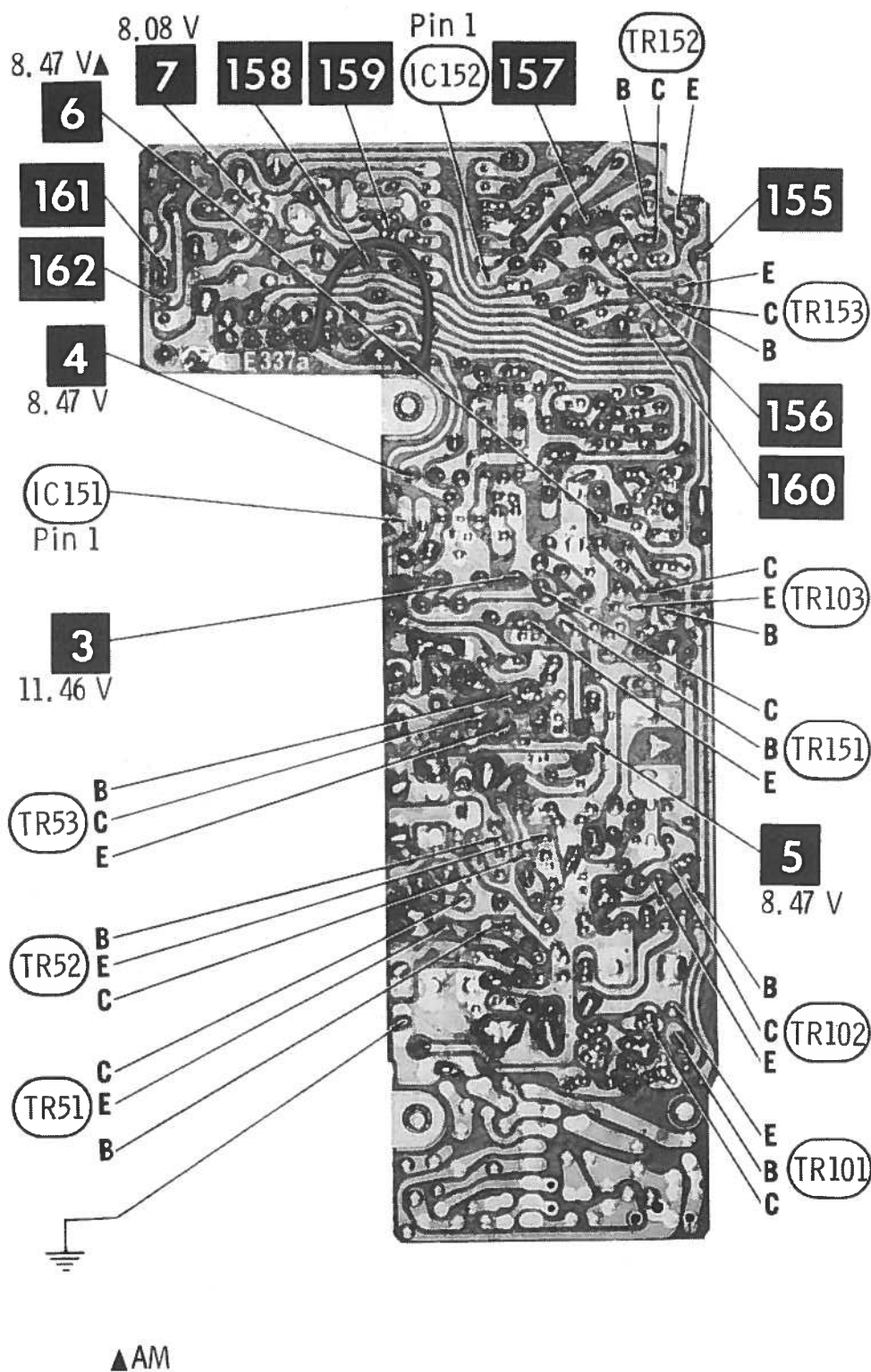
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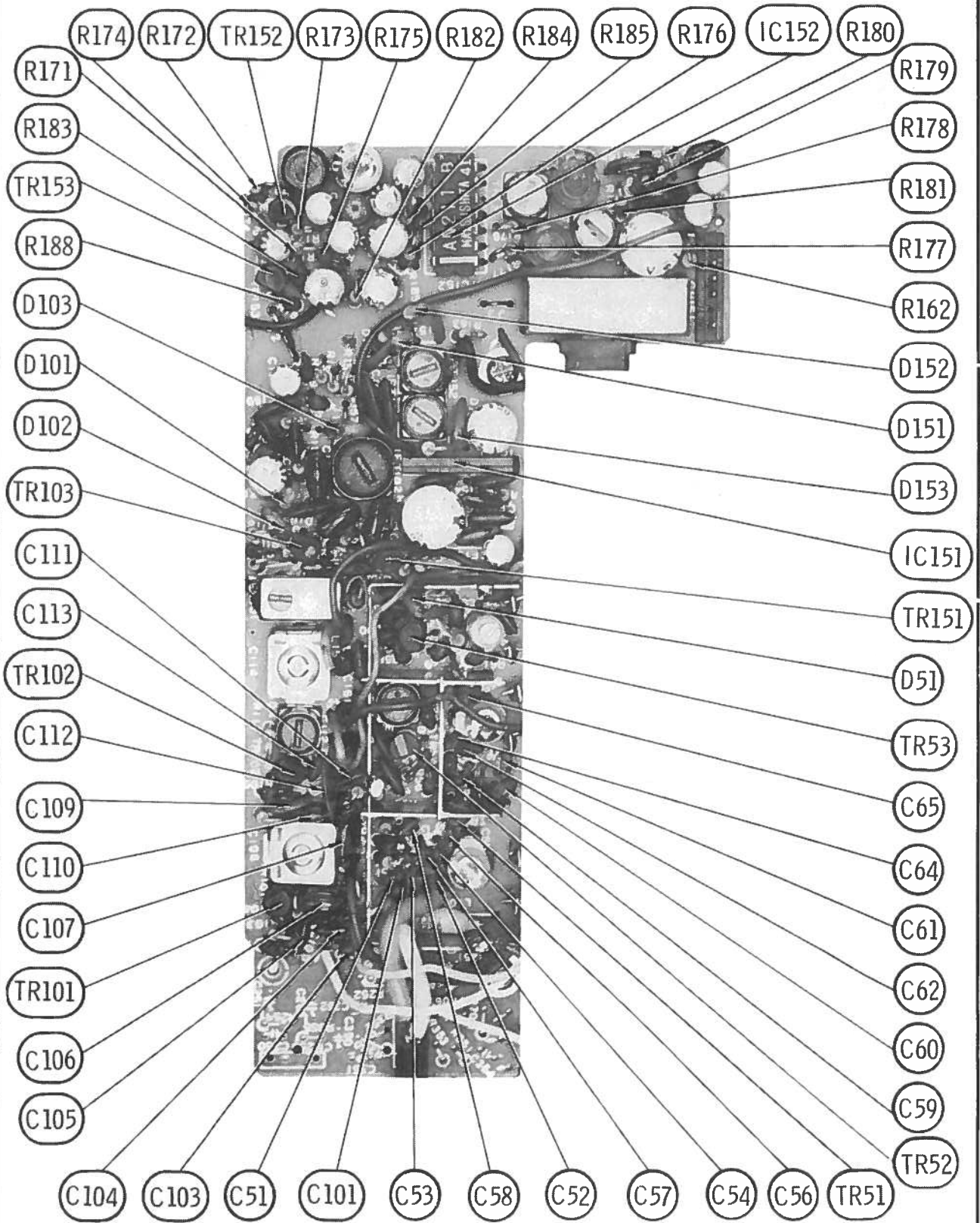
CONTROL BOARD



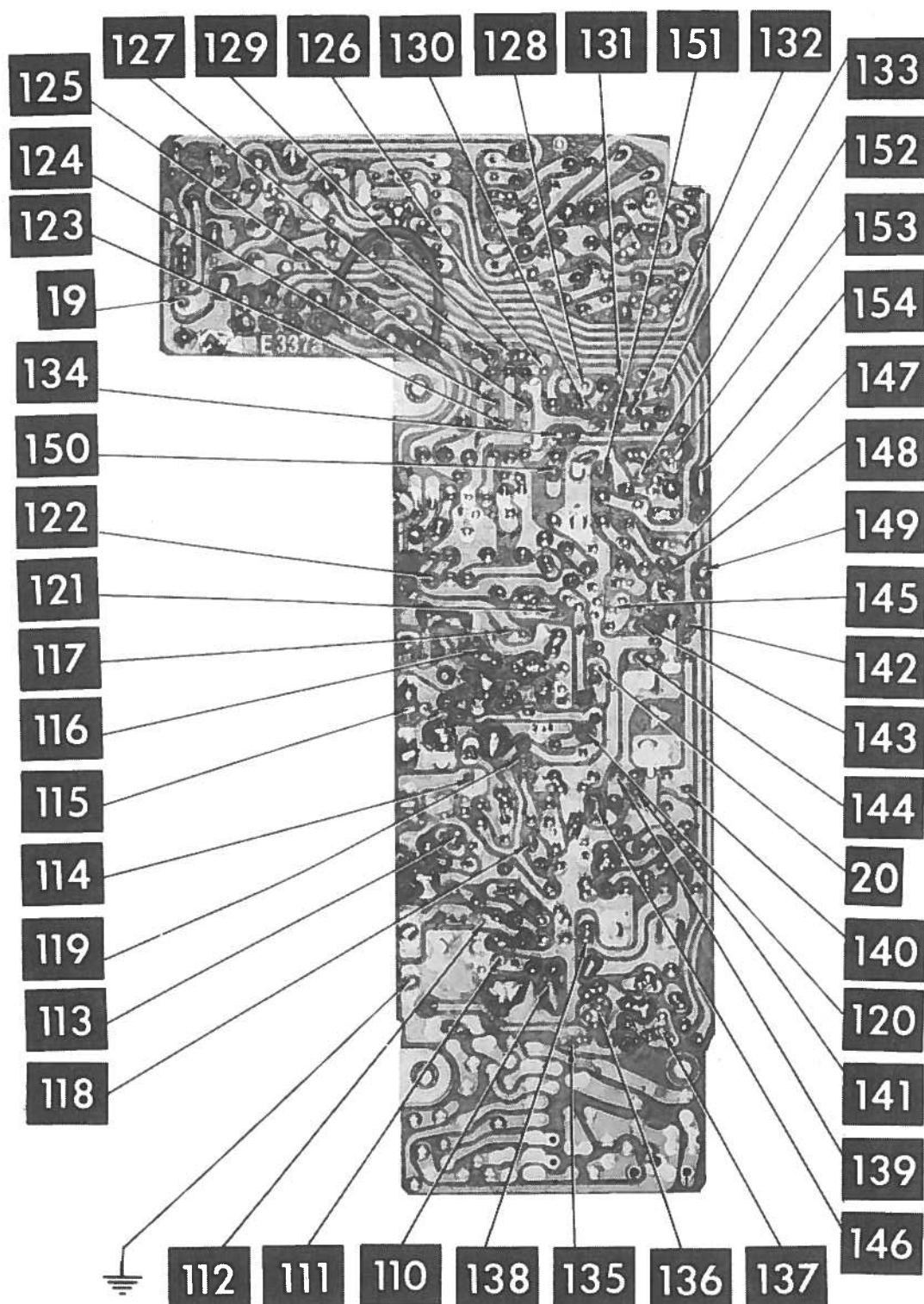
POWER SUPPLY BOARD



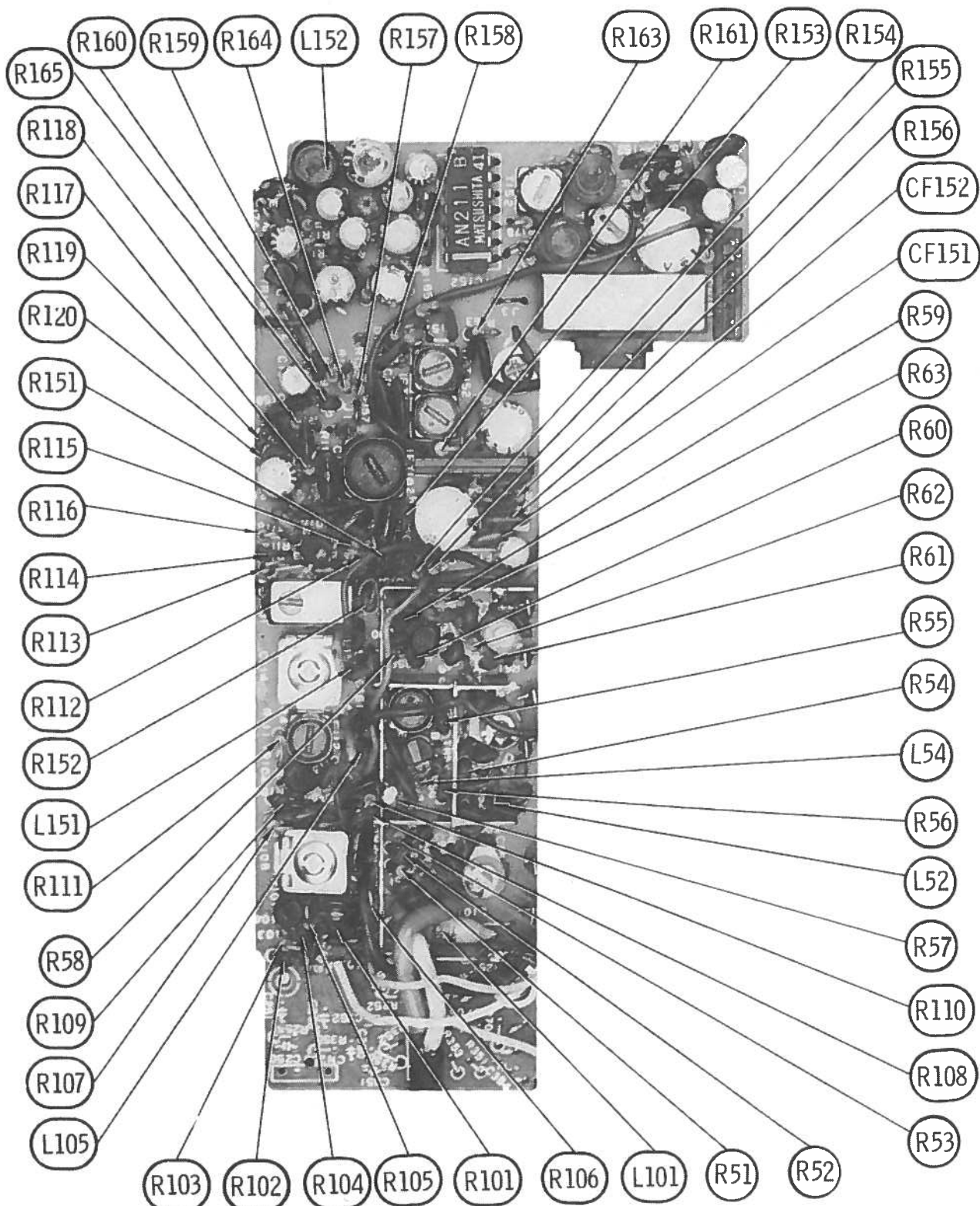
AM-FM BOARD



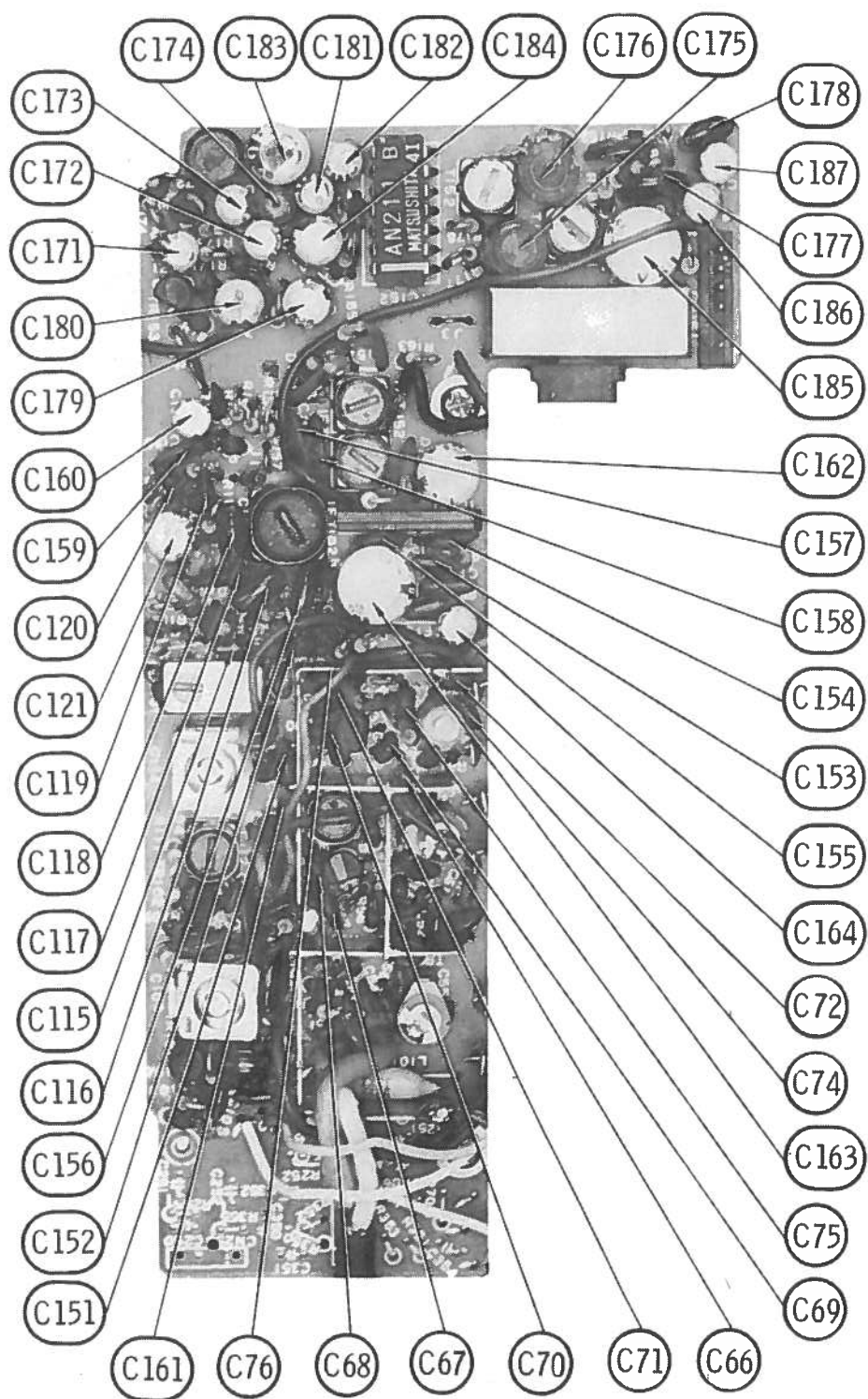
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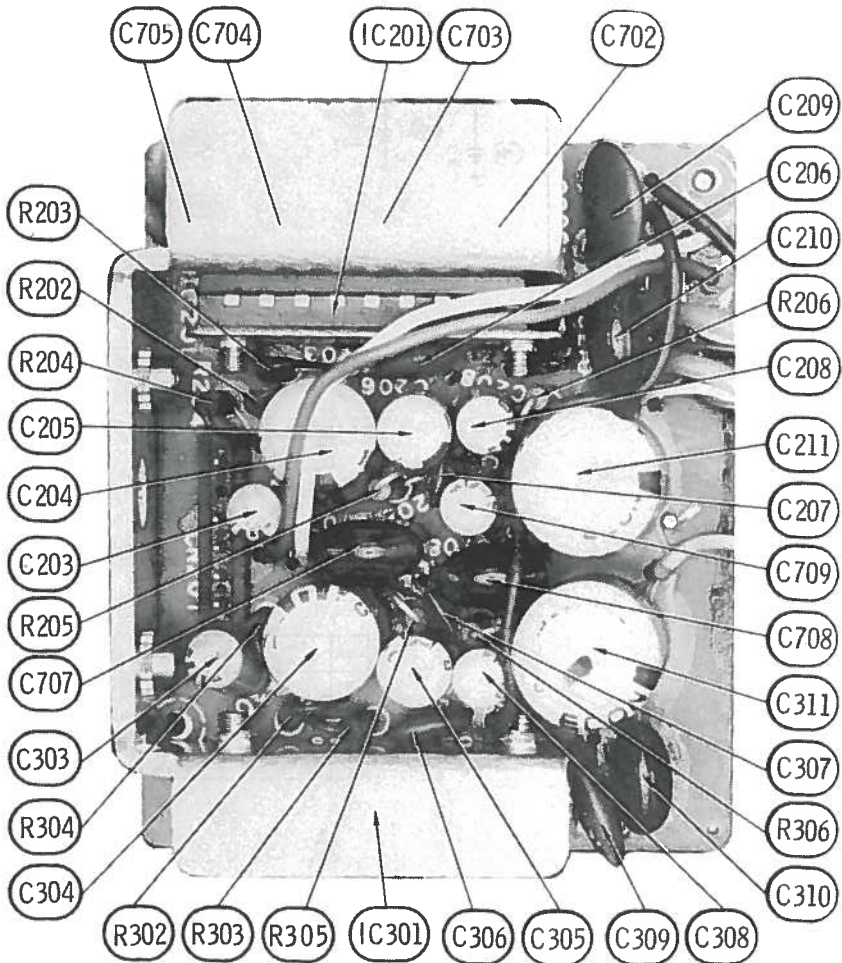
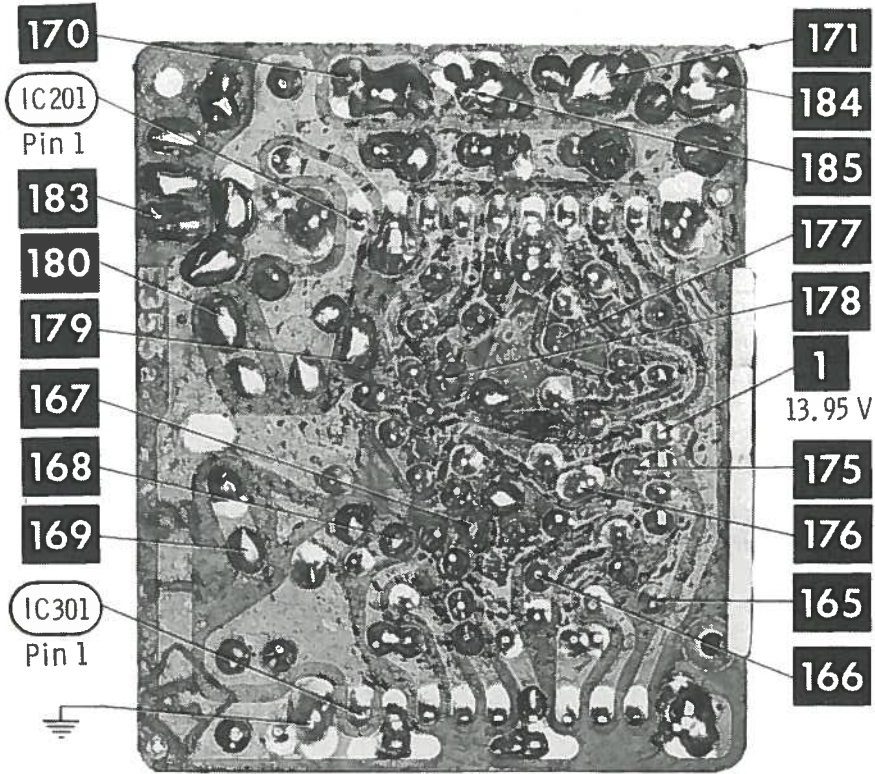
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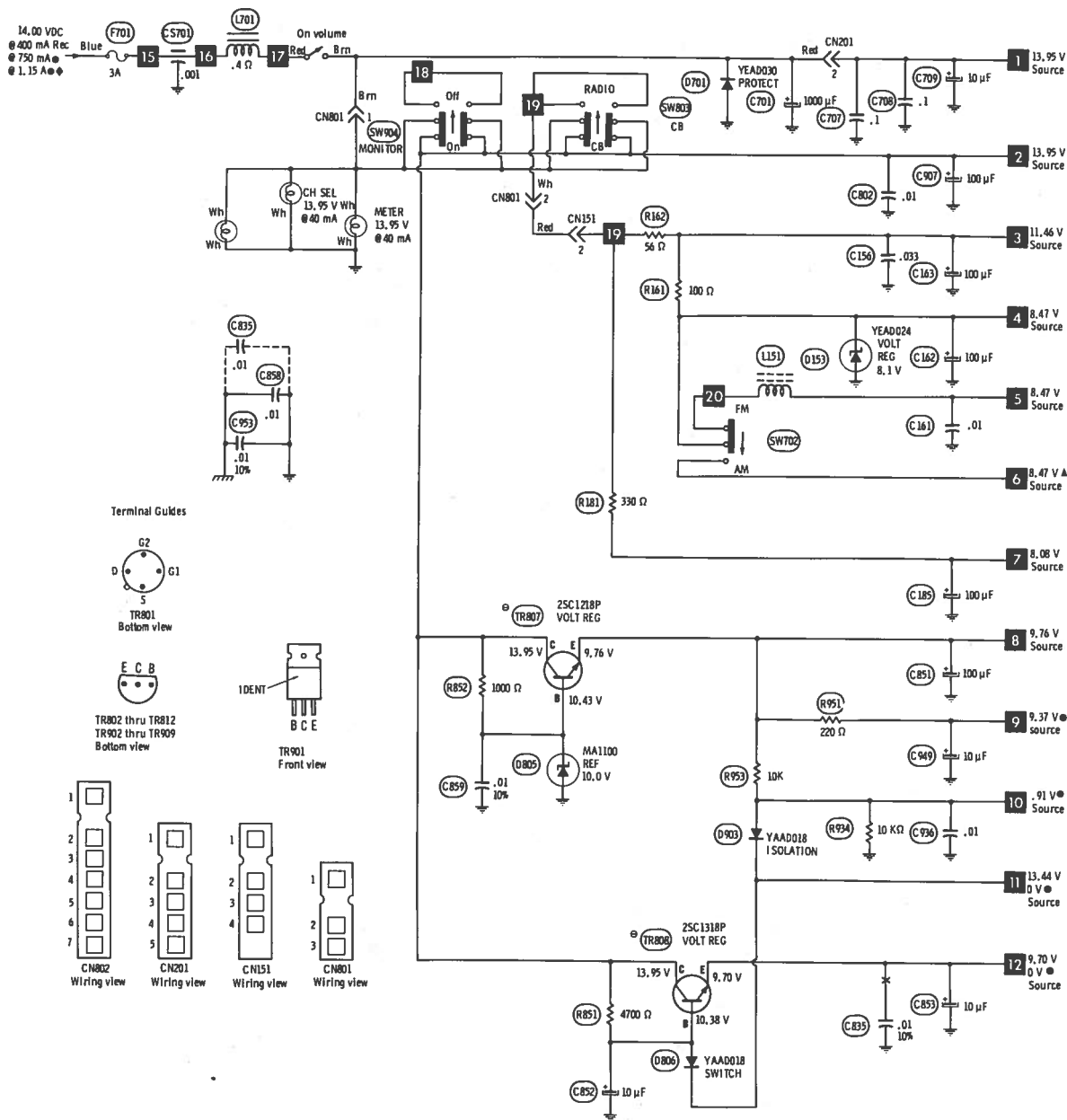
AM-FM BOARD



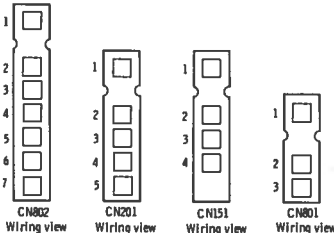
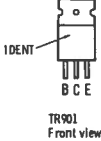
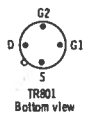
AM-FM BOARD



AUDIO BOARD



Terminal Guides



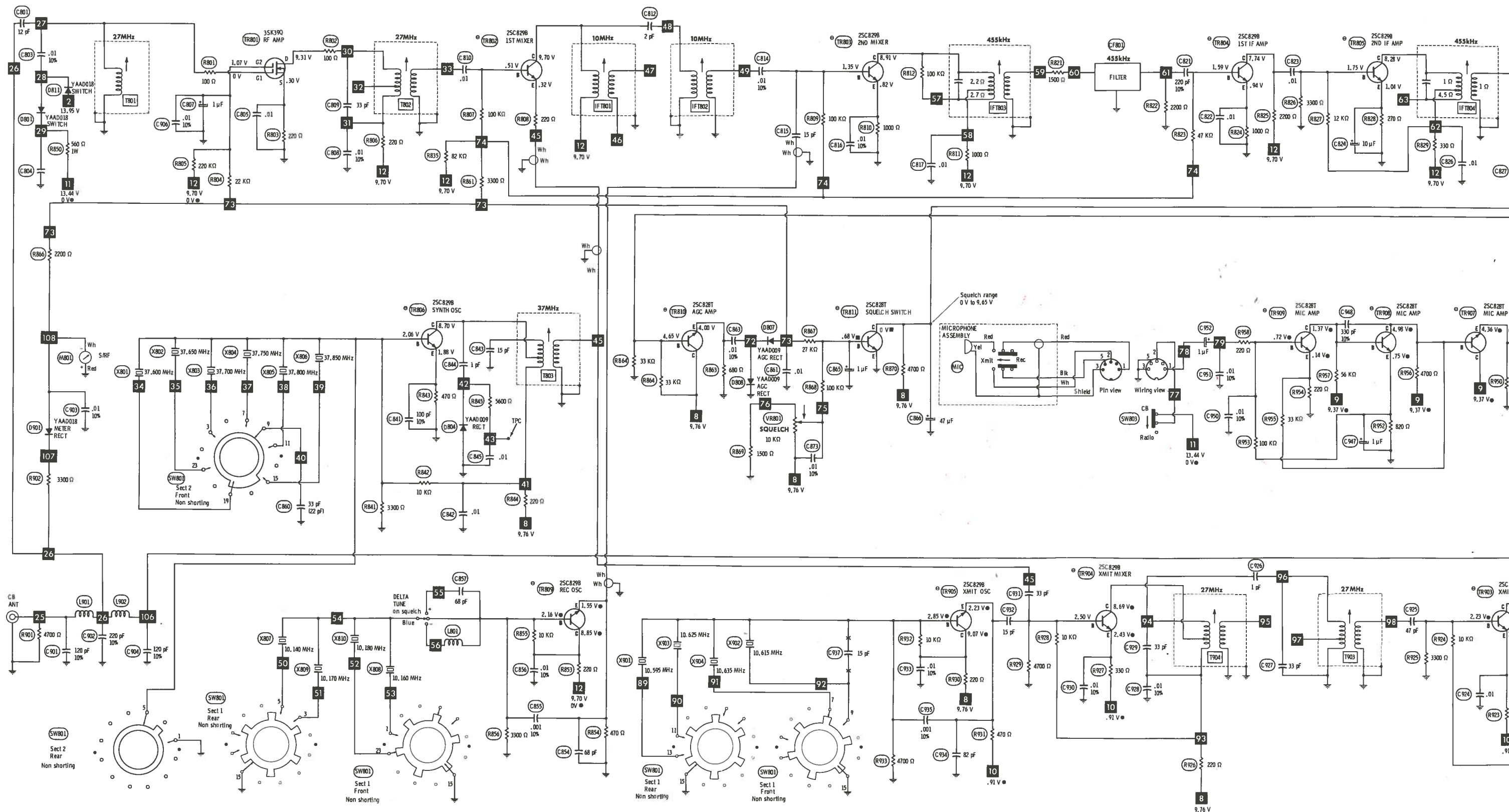
- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- * Nominal value
- ⊕ Ground
- ⏏ Chassis
- ▽ Common tie point

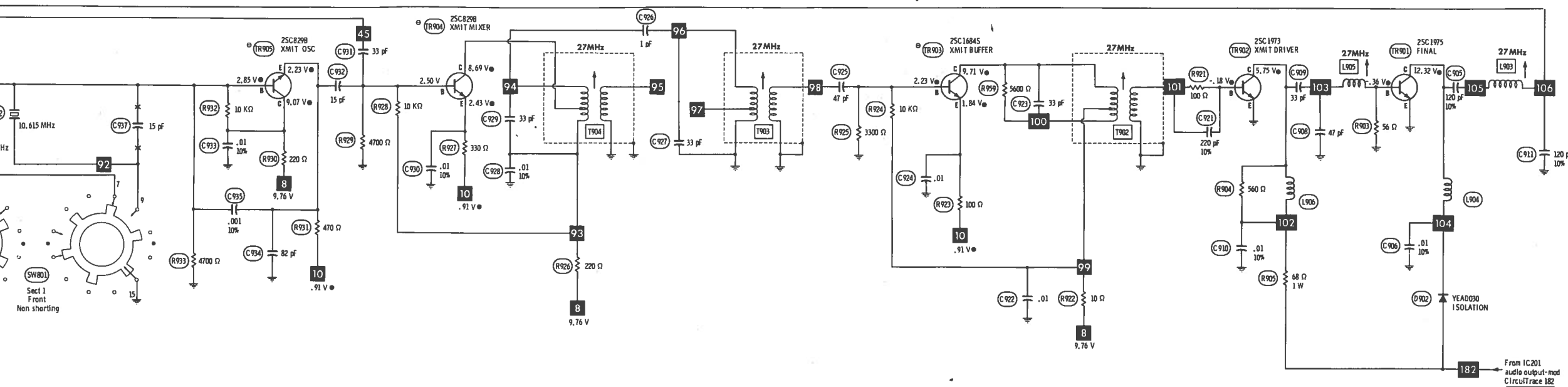
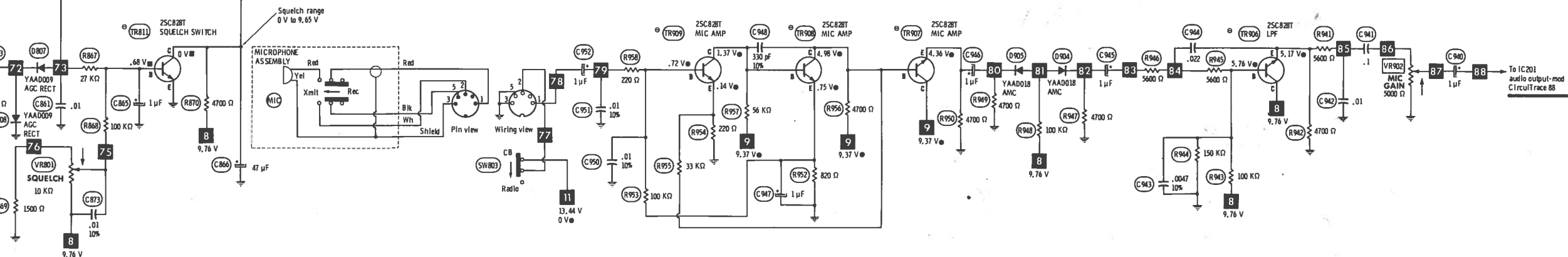
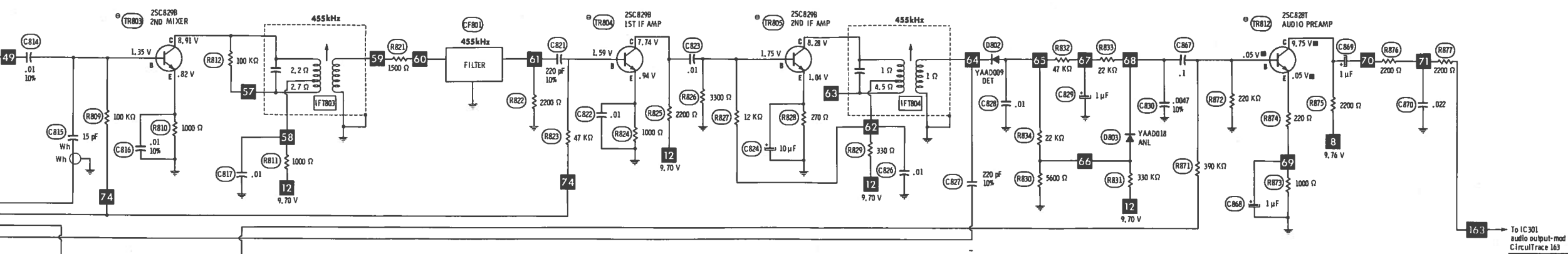
Measurements with switching as shown unless noted:
 ■ Squelch fully clockwise ♦ 100% modulation
 ● Transmit ▲ AM

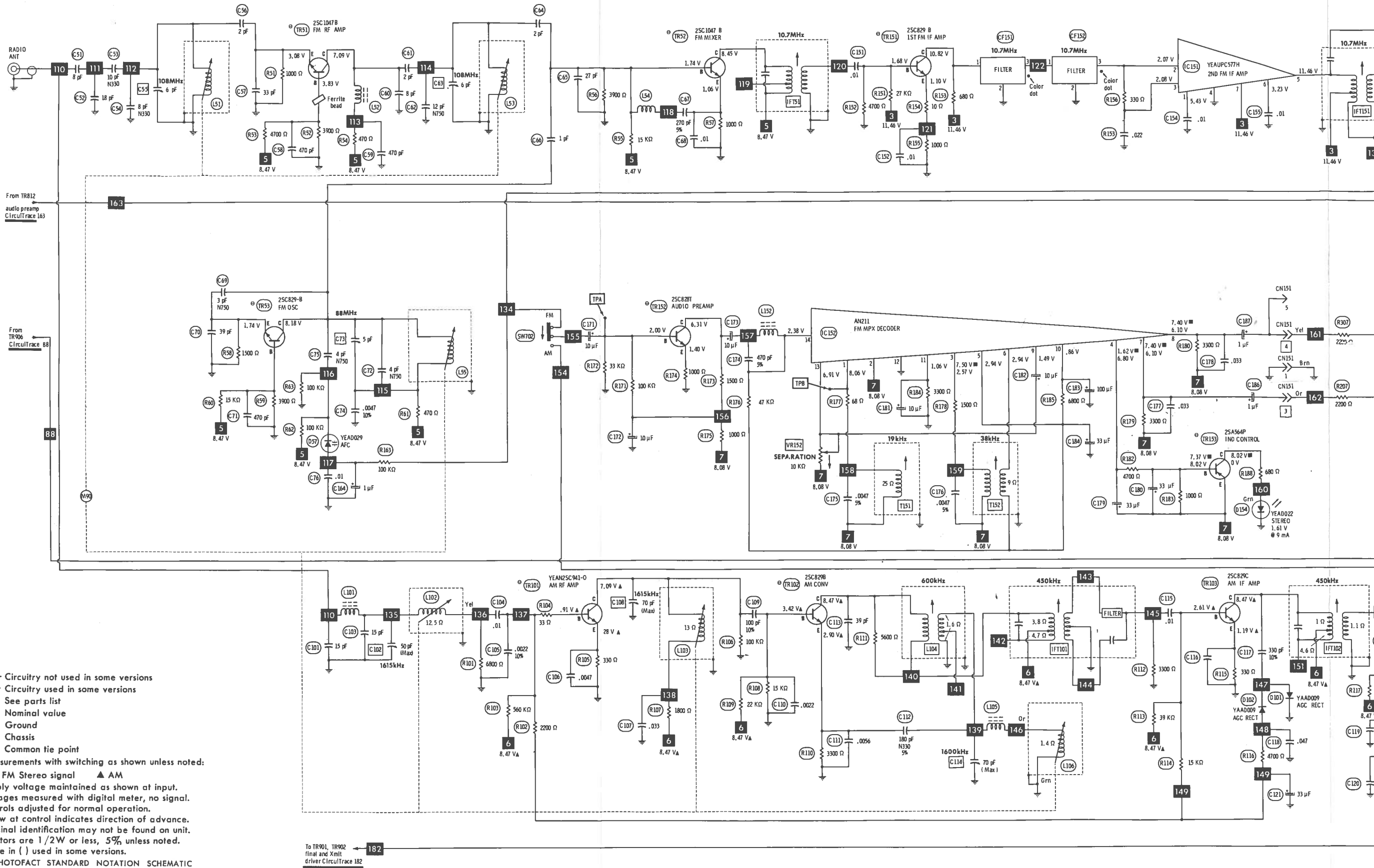
Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

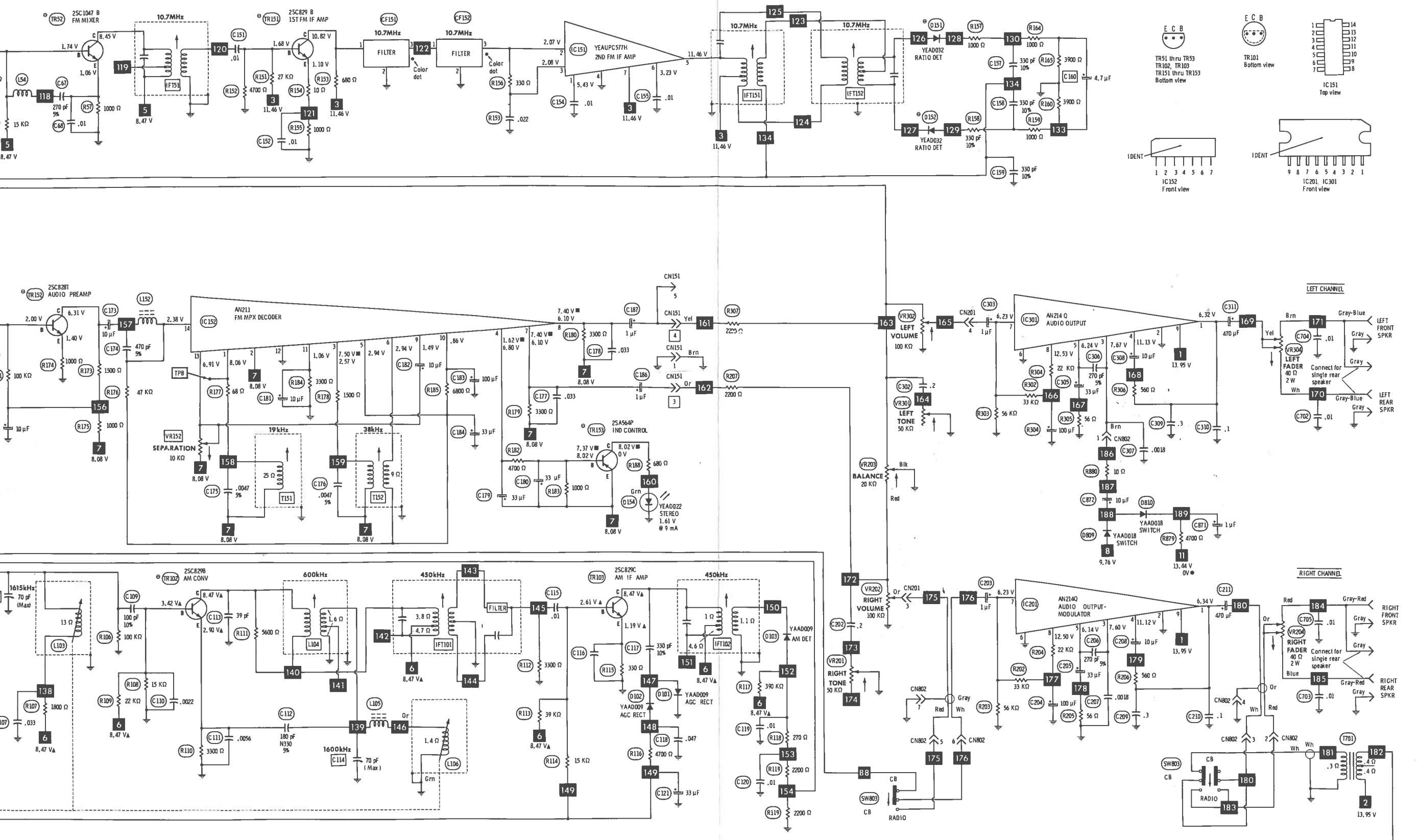
A PHOTOFACT STANDARD NOTATION SCHEMATIC
 WITH CIRCUITRACE

Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X801, X810, X904	7	X802, X808, X902	13	X804, X810, X904	19	X805, X808, X902
2	X801, X809, X903	8	X802, X807, X901	14	X804, X809, X903	20	X805, X807, X901
3	X801, X808, X902	9	X803, X810, X904	15	X804, X808, X902	21	X806, X810, X904
4	X801, X807, X901	10	X803, X809, X903	16	X804, X807, X901	22	X806, X809, X903
5	X802, X810, X904	11	X803, X808, X902	17	X805, X810, X904	23	X806, X807, X901
6	X802, X809, X903	12	X803, X807, X901	18	X805, X809, X903		









PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
051	YEAD029		GE-90	0201		HEPR2503	RE 195	SK3126	RT-262	
0101	YAAD009		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0102	YAAD001		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0103	YAAD009		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0151	YEAD032		1N34AS(7)	1N34A (7)	PTC207M(6)	HEPR9134(7)	RE 86(6)	SK3087(7)	RT-200(7)	ECG110(6)
D152	YEAD032									
D153	YEAD024		GEZD-8.2	Z1208	Z88.2A	HEPZ0411	RE 112	SK3136	RT-257	ECG5072
0154	YEAD022									
0701	YEAD030		GE-504A	5A40	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
0801	YAAD018		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0802	YAAD009		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D803	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0804	YAAD009		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0805	MA1100		GEZD-10		ZB108	HEPR9135	RE 115	SK3061	RT-241	ECG140
0806	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0807	YAAD009		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0808	YAAD009		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0809	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0810	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0811	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0901	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0902	YEAD030		GE-504A	5A40	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
0903	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0904	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0905	YAAD018		GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC151	YEAUPC577H						RE 341 IC			ECG1082
IC152	AN211		GEIC-48							ECG1056
IC201	AN214Q		GEIC-49		PTC757		RE 338 IC			ECG1058
IC301	AN214Q		GEIC-49		PTC757		RE 338 IC			ECG1058
TR51	2SC1047B, C, D		GE-60	(IR)2SC829B	PTC132	HEPS0016	RE 10	SK3018	RT-172	ECG108
TR52	2SC1047B, C, D		GE-60	(IR)2SC829B	PTC132	HEPS0016	RE 10	SK3018	RT-172	ECG108
TR53	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR101	2SC941-0,Y		GE-60	(IR)2SC380AC	PTC132	HEPS0016	RE 192	SK3122	RT-107A	ECG199
TR102	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR103	2SC829C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR151	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR152	2SC828T, R, S		GE-61	(IR)2SC828A	PTC121	HEPS0015	RE 192	SK3122	RT-302	ECG199
TR153	2SA564P, Q, R		GE-65	(IR)2SA564A	PTC103	HEPS0019	RE 26	SK3114	RT-303	ECG234
TR801	3SK390		GE-FET-4		PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
TR802	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR803	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR804	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR805	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR806	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR807	2SC1218P, Q, R		GE-210	TR-25	PTC178	HEPS0015	RE 210	SK3122	RT-302	ECG297
TR808	2SC1318P, Q, R		GE-210	TR-25	PTC178	HEPS0015	RE 210	SK3122	RT-302	ECG297
TR809	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR810	2SC828T, R, S		GE-61	(IR)2SC828A	PTC121	HEPS0015	RE 192	SK3122	RT-302	ECG199
TR811	2SC828T, R, S		GE-61	(IR)2SC828A	PTC121	HEPS0015	RE 192	SK3122	RT-302	ECG199
TR812	2SC828T, R, S		GE-61	(IR)2SC828A	PTC121	HEPS0015	RE 192	SK3122	RT-302	ECG199
TR901	2SC1975	(10)	GE-215		PTC186		RE 203	SK3197	RT-146	ECG235
TR902	2SC1973				PTC179					ECG315
TR903	2SC1684S, R, T		GE-62	TR-21	PTC115	HEPS0024	RE 192	SK3122	RT-108A	ECG199
TR904	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR905	2SC829B,C		GE-20	(IR)2SC829B	PTC121	HEPS0011	RE 9	SK3018	RT-308	ECG229
TR906	2SC828T, R, S		GE-61	(IR)2SC828A	PTC121	HEPS0015	RE 192	SK3122	RT-302	ECG199
TR907	2SC828T, R, S		GE-61	(IR)2SC828A	PTC121	HEPS0015	RE 192	SK3122	RT-302	ECG199
TR908	2SC828T, R, S		GE-61	(IR)2SC828A	PTC121	HEPS0015	RE 192	SK3122	RT-302	ECG199
TR909	2SC828T, R, S		GE-61	(IR)2SC828A	PTC121	HEPS0015	RE 192	SK3122	RT-302	ECG199

(6) Matched pair.

(7) Two required - select matched pair.

(10) Rating, 15 watt @ 2.0 Amp.

PANASONIC MODEL CR-B1717EU

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C121	33 6.3V	ECEA6V33L	PC30-25	VTT33A10	EV-1125
C160	4.7 25V	ECEA25V4R7L	PC5-50	VTT4R7A50	EV-1319
C162	100 10V	ECEA10V100L	PC100-10	VTT100E10	EV-1130
C163	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C164	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C171	10 16V	ECEA16V100L	PC10-25	VTT10A25	EV-1222
C172	10 16V	ECEA16V100L	PC10-25	VTT10A25	EV-1222
C173	10 16V	ECEA16V100L	PC10-25	VTT10A25	EV-1222
C179	33 10V	ECEA10V33L	PC30-25	VTT33A10	EV-1125
C180	33 6.3V	ECEA6V33L	PC30-25	VTT33A10	EV-1125
C181	10 16V	ECEA10V10L	PC10-25	VTT10A25	EV-1222
C182	10 16V	ECEA10V10L	PC10-25	VTT10A25	EV-1222
C183	100 6.3V	ECEA6V100L	PC100-10	VTT100E10	EV-1130
C184	33 6.3V	ECEA6V33L	PC30-25	VTT33A10	EV-1125
C185	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C186	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C187	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C203	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C204	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C205	33 10V	ECEA10V33L	PC30-25	VTT33A10	EV-1125
C208	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C211	470 16V	ECEA16V470Z	PC500-16	VTT470J16	EV-1250
C303	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C304	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C305	33 10V	ECEA10V33L	PC30-25	VTT33A10	EV-1125
C308	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C311	470 16V	ECEA16V470Z	PC500-16	VTT470J16	EV-1250
C701	1000 16V	ECEA16V1000L	PC1000-16	VTT1000L16	EV-1260
C709	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C807	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C824	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C829	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C851	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C852	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C853	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C862	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C865	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C866	1 50V	ECEA16V47L	PC50-16	VTT470J16	EV-1226
C868	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C869	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C871	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C872	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C907	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C940	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C945	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C946	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C947	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C949	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C952	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615
C990	1 50V	ECEA50V1L	PC1-50	VTT1B63	EV-1615

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C51	8	YECC01H0800M				
C52	18	YECCD1H180KM				
C53	10 N330	YECCD1H100JS	*		*	10TCS-010
C54	8 N330	YECCD1H080DS	*		*	10TCS-V82
C55	6	ECV1ZW06X32				
C56	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C57	33	YECCD1H330KM				
C58	470		00-471	GP470	GP347	10TS-T47
C59	470		0D-471	GP470	GP347	10TS-T47
C60	8	YECC01H0800M				
C61	2	YECC01H020CM				
C62	12 N750		*		CN7412	10TCU-Q12
C63	6	ECV1ZW06X32				
C64	2		0TZ-2R2	NP02P2	CN0522	10TCC-V22
C65	27	YECCD1H270KM				
C66	1				CN0510	10TCC-V10
C67	270 5%					
C68	.01		DC-103	MGP01	TA110	TG-S10
C69	3 N750	YECCD1H030DU	*		*	
C70	39				CN0439	10TCC-Q39
C71	470		DD-471	GP470	GP347	10TS-T47
C72	4 N750	YECC01H040DU	*		*	10TCU-V47
C73	5	YECC01H050DU				
C74	.0047 10%				M192P4729R8	192P4729R8
C75	4 N750	YECC01H040DU	*		*	10TCU-V47
C76	.01		DC-103	MGP01	TA110	TG-S10
C101	15	YECC01H150KM				
C102	50 MAX	ECV1ZW50P32				
C103	15	YECC01H150KM				
C104	.01		OC-103	MGP01	TA110	TG-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont')

			REPLACEMENT DATA																																											
ITEM No.	RATING	MFR. PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.																																								
C105	.0022 10%	YECTTC10S700	DD-101	GP100	M192P2229R8	192P2229R8																																								
C106	.0047				M192P4729R8	192P4729R8																																								
C107	.033				M192P3339R8	192P3339R8																																								
C108	70 MAX				GP310	10TS-T10																																								
C109	100 10%				M192P2229R8	192P2229R8																																								
C110	.0022				M192P5629R8	192P5629R8																																								
C111	.0056				*	10TCS-T18																																								
C112	180 5% N330				CN0439	10TCC-Q39																																								
C113	39																																													
C114	70 MAX																																													
C115	.01	YECQNH473M	DO-331	WMF1S1	EWFA1A110	1PB-S10																																								
C116	.047			GP330	GP333	10TS-T33																																								
C117	330 10%																																													
C118	.047			WMF1S1	EWFA1A110	1PB-S10																																								
C119	.01			WMF1S1	EWFA1A110	1PB-S10																																								
C120	.01			TA110	TG-S10																																									
C151	.01			DC-103	MGP01	TG-S10																																								
C152	.01			DC-103	MGP01	TG-S10																																								
C153	.022			YECQNH223M	DC-103	MGP01	TA110	TG-S10																																						
C154	.01					MGP01	TA110	TG-S10																																						
C155	.01	MGP01	TA110			TG-S10																																								
C156	.033	M192P3339R8	192P3339R8																																											
C157	330 10%	GP330	GP333			10TS-T33																																								
C158	330 10%	GP330	GP333			10TS-T33																																								
C159	330 10%	GP330	GP333			10TS-T33																																								
C161	.01	MGP01	TA110			TG-S10																																								
C174	470 5%	CD15F0471J03	SX347			MWA-471																																								
C175	.0047 5%	CD19FD472J03	SX247			MWC-472																																								
C176	.0047 5%	CD19FD472J03	SX247	MWC-472																																										
C177	.033		M192P3339R8	192P3339R8																																										
C178	.033		M192P3339R8	192P3339R8																																										
C202	.2	YECQD12204M																																												
C206	270 5%																																													
C207	.0018																																													
C209	.3																																													
C210	.1																																													
C302	.2																																													
C306	270 5%																																													
C307	.0018																																													
C309	.3																																													
C310	.1																																													
C702	.01	YECQNH104M	DC-103	MGP01	TA110	TG-S10																																								
C703	.01						DC-103	MGP01	TA110	TG-S10																																				
C704	.01						DC-103	MGP01	TA110	TG-S10																																				
C705	.01						DC-103	MGP01	TA110	TG-S10																																				
C707	.1						WMF05P1	EWFO5010	431P1049R5																																					
C708	.1						WMF05P1	EWFO5010	431P1049R5																																					
C801	.12						WMF05P1	EWFO5010	431P1049R5																																					
C802	.01						DC-103	CN0412	10TCC-Q12																																					
C803	.01						OC-103	MGP01	TA110	TG-S10																																				
C804	.01 10%						YECKD1H103KB	DC-103	MGP01	TA110	TG-S10																																			
C805	.01	DC-103	MGP01	TA110	TG-S10																																									
C806	.01	DC-103	MGP01	TA110	TG-S10																																									
C808	.01	DC-103	MGP01	TA110	TG-S10																																									
C809	.33	YECQD1H330KM	OC-103	NP033																																										
C810	.01											DTZ-2R2	MGP01	TA110	TG-S10																															
C812	.2											NP02P2	CN0522	10TCC-V22																																
C814	.01 10%											YECKD1H103KB	DC-103	MGP01	TA110	TG-S10																														
C815	.15																OD-221	GP322	10TS-T22																											
C816	.01 10%																OC-103	TA110	TG-S10																											
C817	.01						OC-103	TA110	TG-S10																																					
C821	220 10%						OC-103	TA110	TG-S10																																					
C822	.01						OC-103	TA110	TG-S10																																					
C823	.01						OC-103	TA110	TG-S10																																					
C826	.01	DC-103	TA110	TG-S10																																										
C827	220	DD-221	GP322	10TS-T22																																										
C828	.01	YECKD1H103KB	WMF1S1	EWFA1A110	1PB-S10	192P4729R8																																								
C830	.0047						M192P4729R8																																							
C835	.01 10%																																													
C841	100 10%						DD-101	GP100	GP310	10TS-T10																																				
C842	.01						DC-103	MGP01	TA110	TG-S10																																				
C843	.15						DTZ-15	NP015	CN0415	10TCC-Q15																																				
C844	.1						YECQD1H010CM	DC-103	MGP01	TA110	TG-S10																																			
C845	.01											GP468	10TS-Q68																																	
C854	.68																																													
C855	.001 10%											DO-680	GP68	EWFA210																																
C856	.01 10%																																													
C857	.68	YECQNH102K	DO-680	GP68	GP468	10TS-Q68																																								
C858	.01											DC-103	MGP01	TA110	TG-S10																															
C859	.01 10%																																													
C860	.22																																													
C861	.01											YECKD1H103KB	DC-103	MGP01	TA110	TG-S10																														
C863	.01 10%																																													
C867	.1																																													
C870	.022																																													
C873	.01 10%																																													
C901	120 10%						YECQNH223M			EWFA22																																				
C902	220 10%	YECQNH220KM																																												
C903	.01 10%																YECQD1H121KM																													
																						DD-221																								

PANASONIC MODEL CR-B1717EU

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA							
			CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.				
C904	120 10%	YECCD1H121KM	00-221 DC-103	NP033	GP322 TA110	10TS-T22 TG-S10				
C905	120 10%	YECCD1H121KM								
C906	.01 10%	YECCD1H103KB								
C908	47	YECCD1H470KM								
C909	33	YECCD1H330KM								
C910	.01 10%	YECCD1H121KM								
C911	120 10%									
C921	220 10%									
C922	.01									
C923	33									
C924	.01	YECCD1H330KM	OC-103	MGP01 NP033 MGP01	TA110	TG-S10				
C925	47	YECCD1H470KM								
C926	1	YECCD1H330KM								
C927	33									
C928	.01 10%									
C929	33									
C930	.01 10%									
C931	33	YECCD1H103KB					NP033	CN0510		
C932	15	YECCD1H330KM								
C933	.01	YECCD1H103KB								
C934	82	YECCD1H330KM								
C935	.001	YECCD1H150KM								
C936	.01 10%	YECQH1H102K	OC-103 DO-820	MGP01	TA110 GP482 EWF1A210	TG-S10 10TS-Q82				
C937	15	YECCD1H150KM								
C941	.1	YECCD12104M								
C942	.01	YECQH1H223M								
C943	.0047									
C944	.022									
C948	330 10%									
C950	.01 10%									
C951	.01 10%	YECCD1H103KB					DD-331	GP330	EWF1A110 M192P4729R8 EWF1A22 GP333	1P8-S10 192P4729R8 10TS-T33
C953	.01 10%	YECCD1H103KB								
C5702	.001	YECCD1H103KB								
		YECCD1H103KB								
		YECCL510294								

*Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFRG. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR152	Separation	10K	EVN-J0AA0B14				
VR201	Tone-Right	50K	EWK-37FS37744				
VR202	Volume-Right	100K	EVA-HOPS15G24 EVN-TBRS03B41				
VR301	Tone-Left	50K					
VR302	Volume/Switch-Left	100K					
VR203	Balance	20K					
VR204	Fader-Right	40 2W					
VR304	Fader-Left	40 2W					
VR801	Squelch	10K	EWK-07AS20B14				
VR902	MIC Gain	5000	EVN-K4AA00B53				

COILS (RF-IF)

		REPLACEMENT DATA			REMARKS
ITEM No.	FUNCTION	PART No.	OTHER IDENTIFICATION	MILLER PART No.	
IFT51	FM Mixer (10.7MHz)	YE1F07S7049			
IFT101	AM IF (450kHz)	YE1C0702004A			
IFT102	AM IF (450kHz)	YE1A10S7086			
IFT151	FM IF (10.7MHz)	YE1F07S7048			
IFT152	FM IF (10.7MHz)	YE1F07S7047			
IFT801	Rec Mixer (10MHz)	E1F7S755C			
IFT802	Rec Mixer (10MHz)	E1F7S755C			
IFT803	CB IF (455kHz)	YE1A07S7074C			
IFT804	CB IF (455kHz)	YE1A10S7086			
L51	Rec Ant				
L52	RF Choke	YELT06C003			
L53	Rec RF				
L54	RF Choke	YELT03C011			
L55	FM Osc				
L101	RF Choke	YELQ0SC040			
L102	AM Ant				
L103	AM RF				
L104	AM Conv	YELL07S069			
L105	RF Choke	YELT06C003			
L106	AM Osc				
L151	RF Choke	YELT06C007			
L152	RF Choke	YELM14S917			
L801	RF Choke	YELT04N019			
L901	Pi Filter	YELT04N017			
L902	Pi Filter	YELT04N017			
L903	Final Tank (27MHz)				
L904	RF Choke	YELT04N018			
L905	Xmit Driver (27MHz)				

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

COILS (RF-IF) (cont)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L906	RF Choke	YELQ04N009			
T151	FH MPX (19kHz)	YELM07S912			
T152	FH MPX (38kHz)	YELM07S911			
T801	Rec Ant (27MHz)	E1V7E701B			
T802	Rec RF (27MHz)	E1V7E701A			
T803	Synth Osc (38MHz)	E1V7E701C			
T902	Xmit Buffer (27MHz)	E1V7E701A			
T903	Harmonic Suppressor (27MHz)	E1V7E701A			
T904	Xmit Mixer (27MHz)	E1V7E701A			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L701	1.15A	.4	4mH	YETQ02DF012 TCH-012 (1)			(1) Number on unit.

TRANSFORMER

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	1	2		YETN136X001			

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F701	3A Fast Acting	YEAFO1001		AGC3	H0J	312003	150145	FG3-2

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	WM2291R	18-032	18-034	18-010	18-105	1	3	2	NC	NC	3

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X801	37.600	YEXLHC18U009	0A32W37.600	1,2,3,4	X808	10.160	YEXLHC18U002	DC65W10.160	3,7,11,15,19
X802	37.650	YEXLHC18U010	DA32W37.650	5,6,7,8	X809	10.170	YEXLHC18U003	DC65W10.170	2,6,10,14,18,22
X803	37.700	YEXLHC18U011	DA32W37.700	9,10,11,12	X810	10.180	YEXLHC18U004	DC65W10.180	1,5,9,13,17,21
X804	37.750	YEXLHC18U012	0A32W37.750	13,14,15,16	X901	10.595	YEXLHC18U005	DB65W10.595	4,8,12,16,20,23
X805	37.800	YEXLHC18U013	DA32W37.800	17,18,19,20	X902	10.615	YEXLHC18U006	DB65W10.615	3,7,11,15,19
X806	37.850	YEXLHC18U014	DA32W37.850	21,22,23	X903	10.625	YEXLHC18U007	DB65W10.625	2,6,10,14,18,22
X807	10.140	YEXLHC18U001	DC65W10.140	4,8,12,16,20,23	X904	10.635	YEXLHC18U008	DB65W10.635	1,5,9,13,17,21

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF151	Filter	YE1N09N5004	10.7MHz (FM)
CF152	Filter	YE1N09H5004	10.7MHz (FM)
CF801	Filter	YE1C07P2005A	455kHz (CB)
M90	Tuner	YEAU05180	AM/FM
M801	Meter	YEAUCFM11	S/R
SW702	Switch	YEAS07026	FM/AM
SW801	Switch	ESRN24RF35BE	Channel Selector
SW803	Switch	YEAS09058	Radio/CB
SW904	Switch	YEAS9056	Monitor/Radio
	Power Supply Cord	YEAJ01110	
	Power Supply Cord	YEAJ01109	

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Cover, Bottom	YEFA05097	Side Plate, Right (Radio)	YEFA09029
Cover, Upper	YEFA03199	Rear Plate (Radio)	YEFA08013
Front Plate (CB)	YEFA05109	Knob, Guide Plate	YEFX239127
Rear Plate (CB)	YEFA05110	Knob, Squelch	YEFE08051
Power Case	YEFA13089	Knob, Delta-Tune	YEFE07054
Back Plate (Radio)	YEFJ10555	Knob, Channel Selector	YEFE17036
Front Plate (Radio)	YEFA07012A	Button, Monitor & CB	YEFE10162
Side Plate, Left (Radio)	YEFA09032		

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 13 Colors
	8524 (Stranded) Available in 13 Colors
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type)
	8237 Low-loss (RG-8/U)
	8240 (Solid) Miniature (RG-58/U)
	8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene
Bonding Strap	Use BELOEN No. 8661 (3/8 inch)