

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

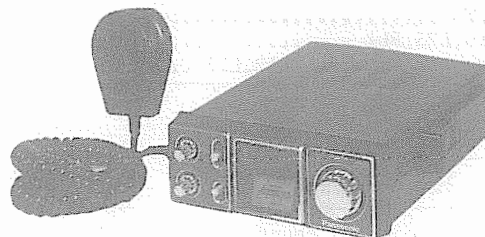
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(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 RJ-3150

MANUFACTURER'S SPECIFICATIONS

Power Source	13.8 V, DC
Receiver Section	
Frequency Range:	26.965 MHz to 27.405 MHz
Sensitivity:	Less than -6 dB (0.5 mV) for 10 dB S/N at 1 kHz, 30% modulation
Selectivity:	Bandwidth 5 kHz min. for 6 dB
Adjacent Channel Rejection:	55 dB
Audio Distortion at 1 kHz:	Less than 10% at 2 W
Spurious Emission:	-60 dB
Cross Modulation Rejection:	Better than 40 dB
Squelch Sensitivity:	2 dB, Approx.
Delta Tuning:	±1 kHz
Transmitter Section	
Frequency Range:	26.965 MHz to 27.405 MHz
Power Output at 13.8 V, DC:	4 W
Modulation:	Less than 100%
Emission (class D operation):	6A3
Spurious Emission:	-60 dB
Frequency Tolerance:	±0.005%
Antenna Impedance:	50 Ω
Modulation Distortion:	Less than 10% at 1 kHz at 80% modulation
Speaker:	3" (8cm) PM Dynamic speaker
Dimensions:	8"(Wide) × 2 $\frac{9}{16}$ " (High) × 10 $\frac{1}{2}$ " (Deep) (204 × 65 × 267) mm
Weight:	4 lb. 7 oz. Without microphone & car bracket
Impedance:	Speaker 8 Ω Microphone Jack 600 Ω EXT Speaker Jack 8 Ω PA Speaker Jack 8 Ω Antenna Jack 50 Ω

PANASONIC MODEL RJ-3150

Courtesy of the Manufacturer

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

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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 13.8-volt DC input. Connect low sides of test equipment to ground unless specified otherwise. Connect 50-ohm dummy load or antenna before keying transmitter. Connect microphone.

Suggested Alignment Tools: GC ELECTRONICS
 C69, C134 8276, 5000
 T1, T2, T3 5009, 8728-A, 8728
 L14, L16, L25, FL1 9304, 9300, 9302
 L1 thru L6, L8, L9, L10, L12, L13 9440

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP1 (Junction C44 and C43).	Ch. 19		Check for 10.240MHz
Input of DC meter to TP5 (Junction R55 and R141).	Ch. 19	L6	Adjust for 3.5 volts $\pm$.1 volt. Check for voltage greater than 2 volts on Ch. 1, and less than 5.9 volts on Ch. 40.
	Ch. 19, XMT	C134	Adjust for 3.5 volts $\pm$.1 volt.
Input of frequency counter thru 5pF to TP3 (TR25 Emitter).	Ch. 19 Delta Tune 0	L9	Adjust for 18.820MHz $\pm$ 100Hz.
Input of frequency counter to TP10 (TR24 Collector)	Ch. 19 Delta Tune 0		Check for 16.270MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP2 (L8 Secondary)	Ch. 19, XMT	L8	Adjust for maximum, then turn core 1/4 turn clockwise.
Input of frequency counter to TP2 (L8 Secondary).	Ch. 19, XMT	C69	Adjust for 29.515MHz $\pm$ 2.50Hz.
Input of frequency counter to TP11 (TR31 collector).	Ch. 1, XMT		Check for 26.965MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP12 (IC1 pin 2).	Ch. 1		Check for 2.550MHz. Check all channels. (See Truth Chart for correct frequencies.)

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil. Set generator output low enough to prevent AGC limiting. Preset as indicated, unless otherwise noted. Adjust volume control to obtain a suitable indication. Squelch MINIMUM, Delta Tune 0, ANL Off

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP7 (L5 Secondary). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T3, T2, T1	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	L5, L4, L3, L2, L1	Adjust for maximum output. If necessary readjust T1, T2 and T3.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication. Preset as indicated, unless otherwise noted:
Squelch MINIMUM, Delta Tune 0, ANL Off

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19 Squelch Max	R99	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19	R130	SIGNAL METER Adjust for 9 on signal scale of meter.

TRANSMITTER ALIGNMENT

Connect a 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input.	Ch. 19	L10, L12, L13, L14, L16, FL1, L25	Adjust for maximum.
Input of RF wattmeter to antenna input.	Ch. 19	L16	Adjust for 4 watts maximum.

TRANSMITTER ADJUSTMENTS

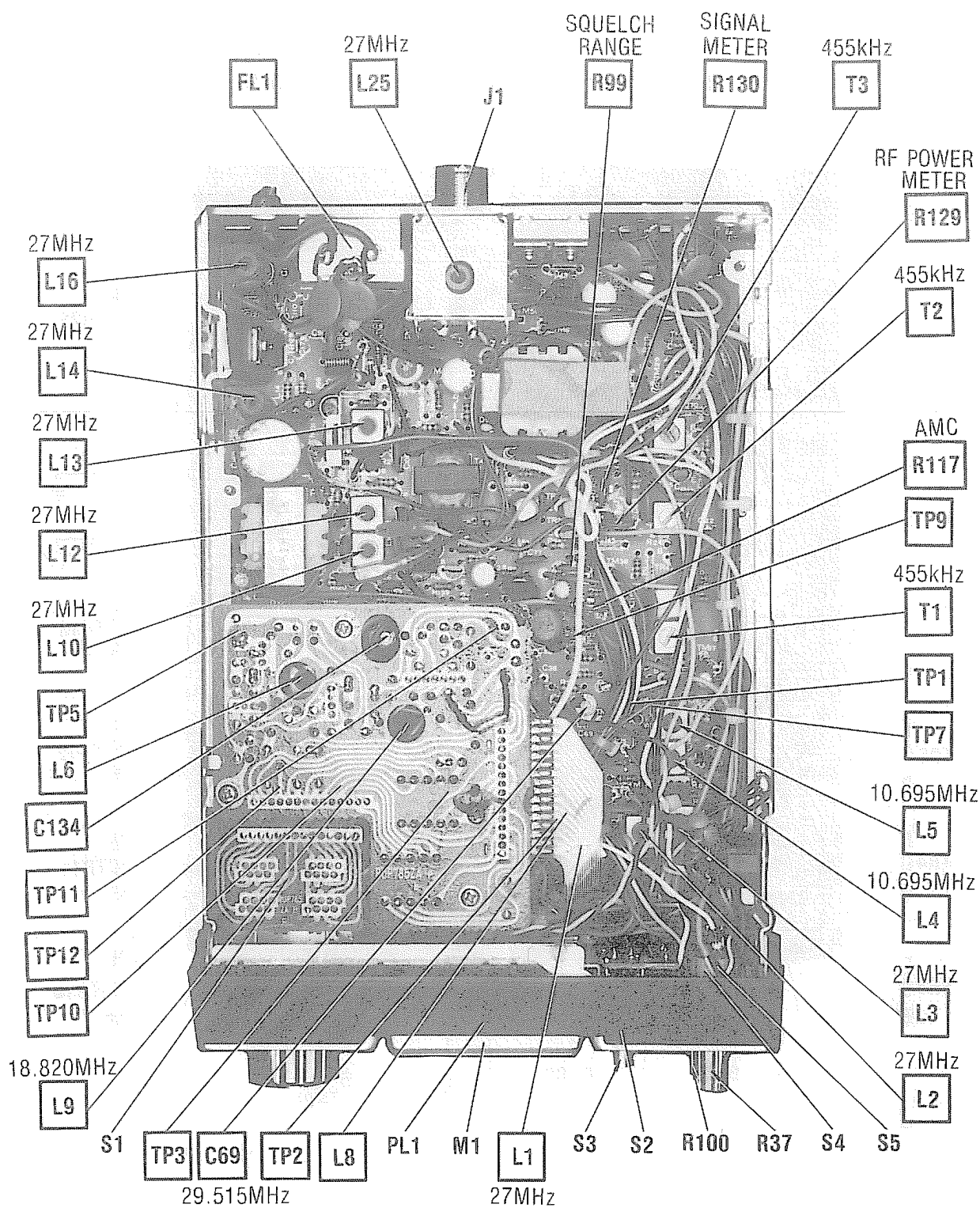
Connect a 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of DC meter to TP9.	Ch. 19	R117	AMC This adjustment made in receive mode. Adjust for 0.75 volts ± 0.05 volt.
Input of RF wattmeter to antenna input.	Ch. 19	R129	RF POWER METER Adjust so RF Power meter reads in the center of the red on RF Power scale of meter.

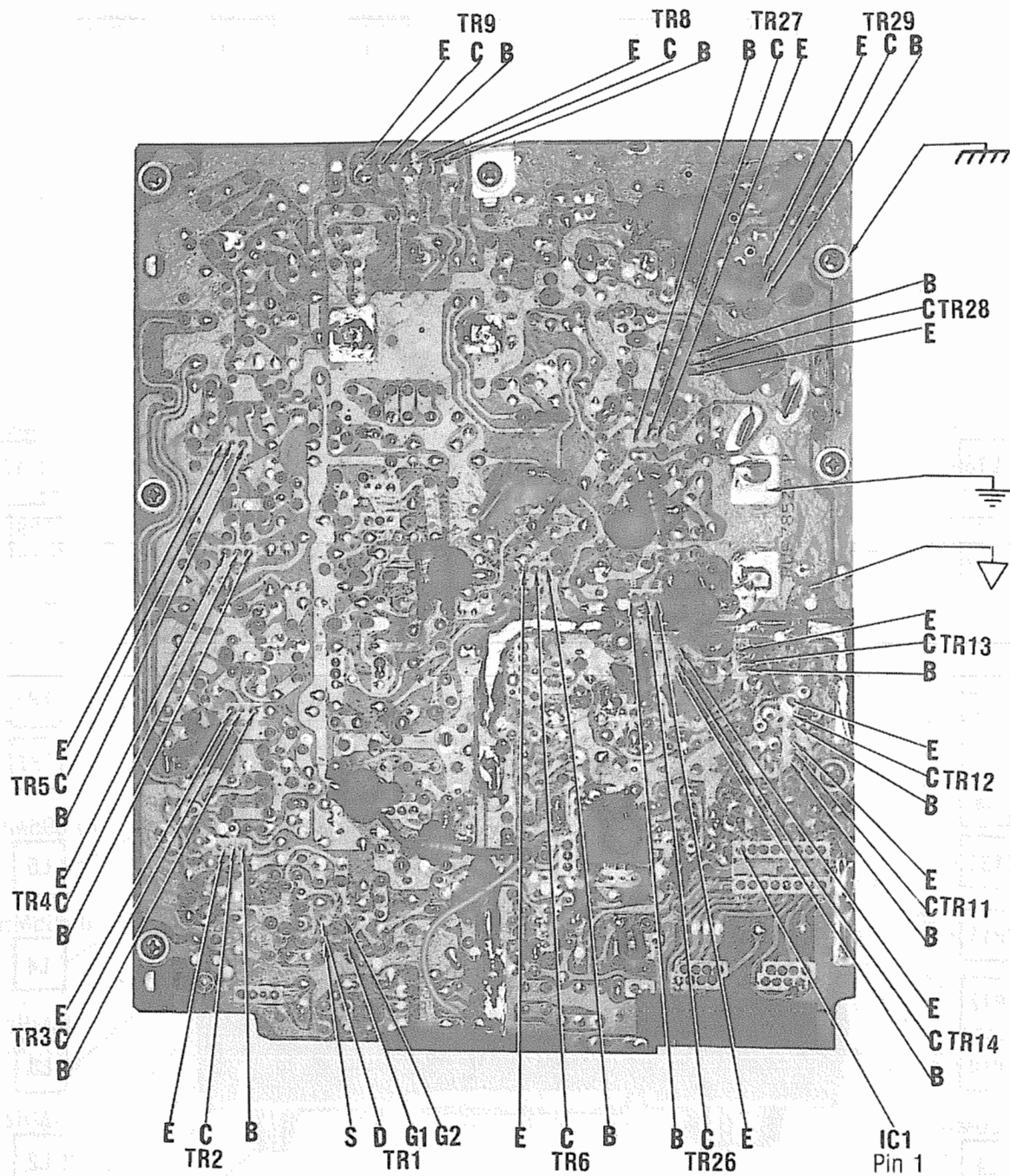
PANASONIC MODEL RJ-3150

TRUTH CHART

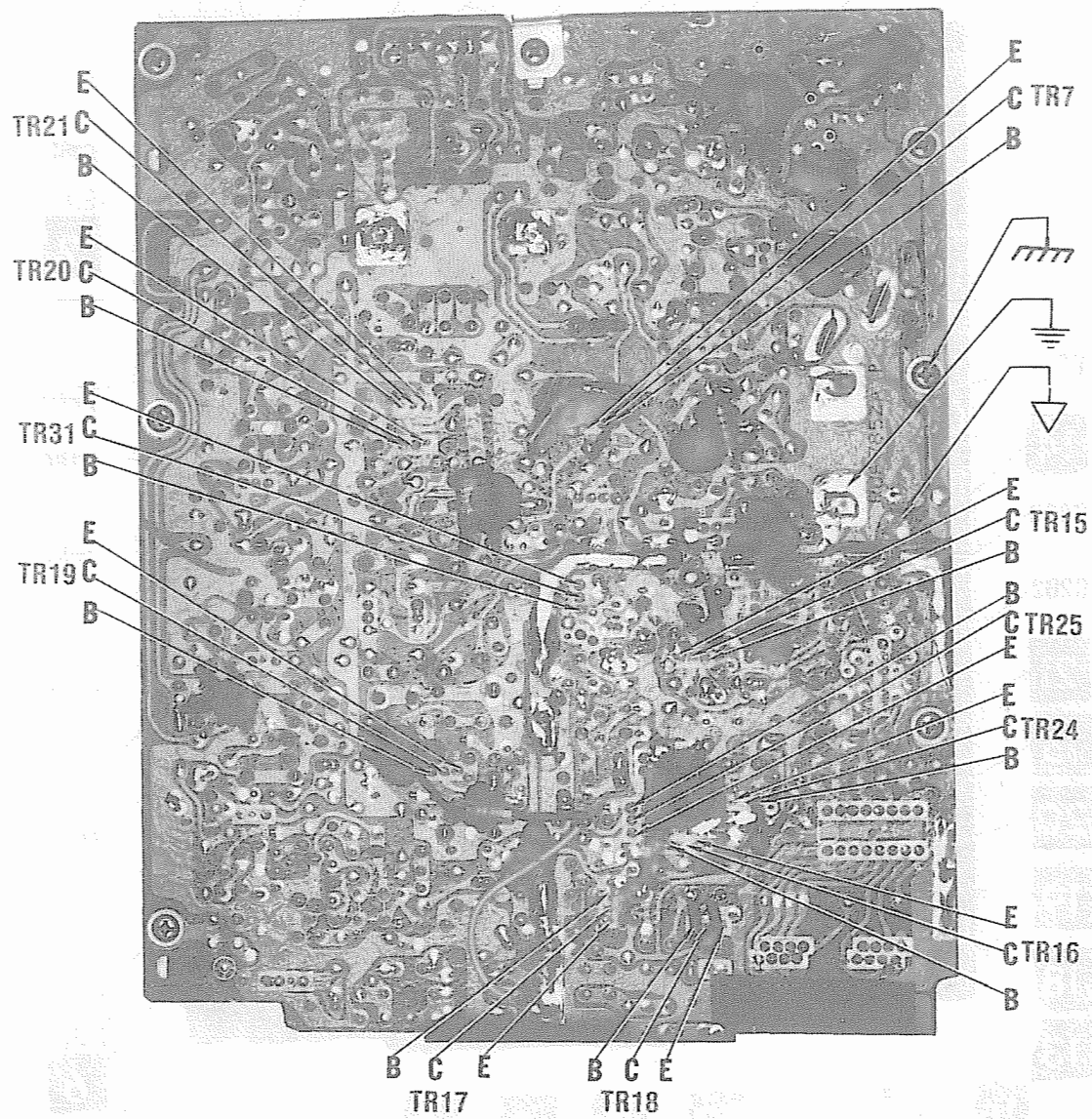
C H A N N E L	1 = 4.94 Volts 0 = 0 Volts								REC SYNTH OUTPUT IN MH AT TP10 (TR24, COLLECTOR)	REC & XMT DIVIDER INPUT IN MHz AT TP12 (IC1,Pin 2)	XMT SYNTH OUTPUT IN MHz AT TP11 (TR31, COLLECTOR)
	IC1 PROGRAM DIVIDER										
	PINS										
			10	11	12	13	14	15			
1			1	1	1	1	1	1	16.270	2.550	26.965
2			1	1	1	1	1	0	16.280	2.540	26.975
3			1	1	1	1	0	1	16.290	2.530	26.985
4			1	1	1	0	1	1	16.310	2.510	27.005
5			1	1	1	0	1	0	16.320	2.500	27.015
6			1	1	1	0	0	1	16.330	2.490	27.025
7			1	1	1	0	0	0	16.340	2.480	27.035
8			1	1	0	1	1	0	16.360	2.460	27.055
9			1	1	0	1	0	1	16.370	2.450	27.065
10			1	1	0	1	0	0	16.380	2.440	27.075
11			1	1	0	0	1	1	16.390	2.430	27.085
12			1	1	0	0	0	1	16.410	2.410	27.105
13			1	1	0	0	0	0	16.420	2.400	27.115
14			1	0	1	1	1	1	16.430	2.390	27.125
15			1	0	1	1	1	0	16.440	2.380	27.135
16			1	0	1	1	0	0	16.460	2.360	27.155
17			1	0	1	0	1	1	16.470	2.350	27.165
18			1	0	1	0	1	0	16.480	2.340	27.175
19			1	0	1	0	0	1	16.490	2.330	27.185
20			1	0	0	1	1	1	16.510	2.310	27.205
21			1	0	0	1	1	0	16.520	2.300	27.215
22			1	0	0	1	0	1	16.530	2.290	27.225
23			1	0	0	0	1	0	16.560	2.260	27.255
24			1	0	0	1	0	0	16.540	2.280	27.235
25			1	0	0	0	1	1	16.550	2.270	27.245
26			1	0	0	0	0	1	16.570	2.250	27.265
27			1	0	0	0	0	0	16.580	2.240	27.275
28			0	1	1	1	1	1	16.590	2.230	27.285
29			0	1	1	1	1	0	16.600	2.220	27.295
30			0	1	1	1	0	1	16.610	2.210	27.305
31			0	1	1	1	0	0	16.620	2.200	27.315
32			0	1	1	0	1	1	16.630	2.190	27.325
33			0	1	1	0	1	0	16.640	2.180	27.335
34			0	1	1	0	0	1	16.650	2.170	27.345
35			0	1	1	0	0	0	16.660	2.160	27.355
36			0	1	0	1	1	1	16.670	2.150	27.365
37			0	1	0	1	1	0	16.680	2.140	27.375
38			0	1	0	1	0	1	16.690	2.130	27.385
39			0	1	0	1	0	0	16.700	2.120	27.395
40			0	1	0	0	1	1	16.710	2.110	27.405



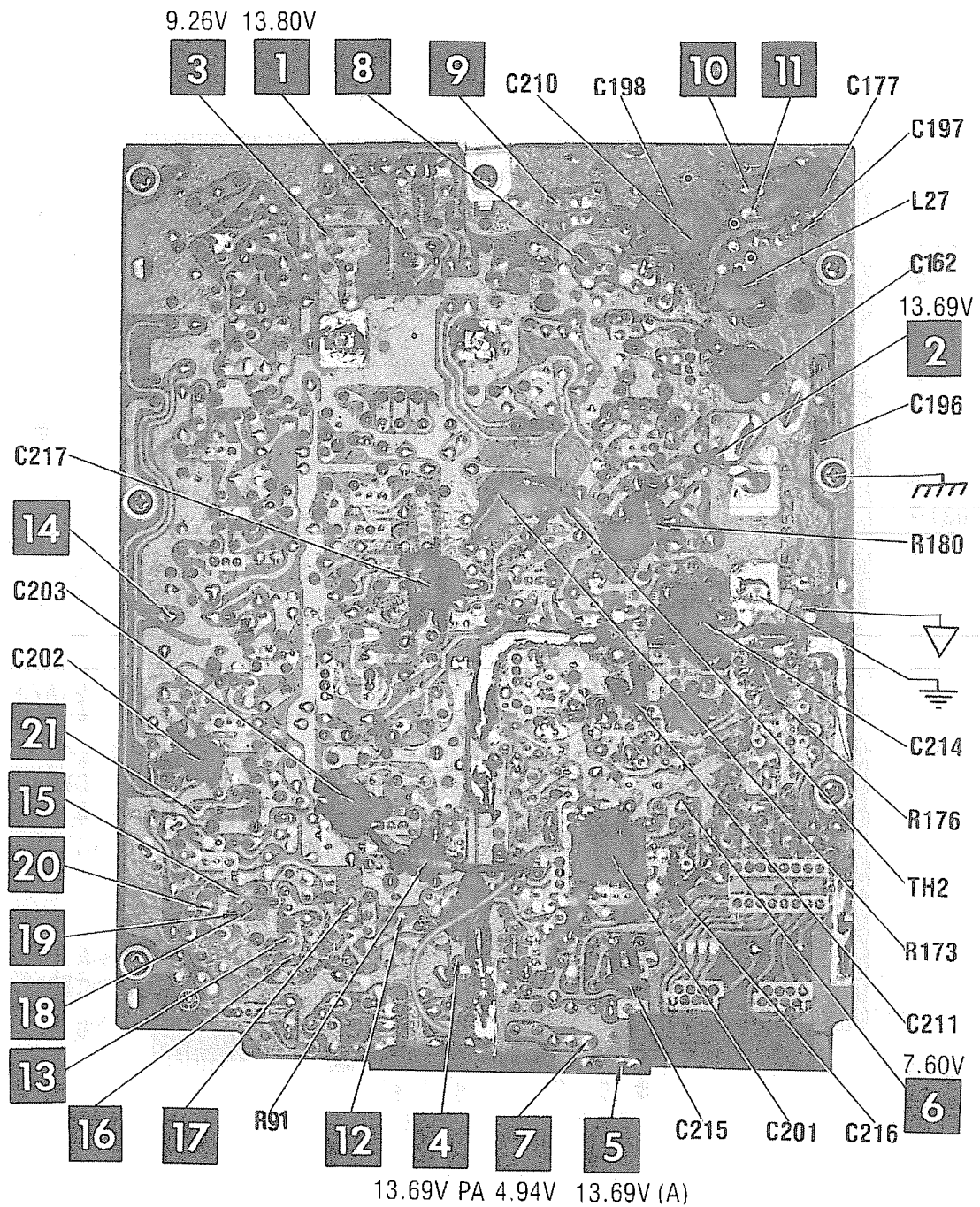
CHASSIS - BOTTOM



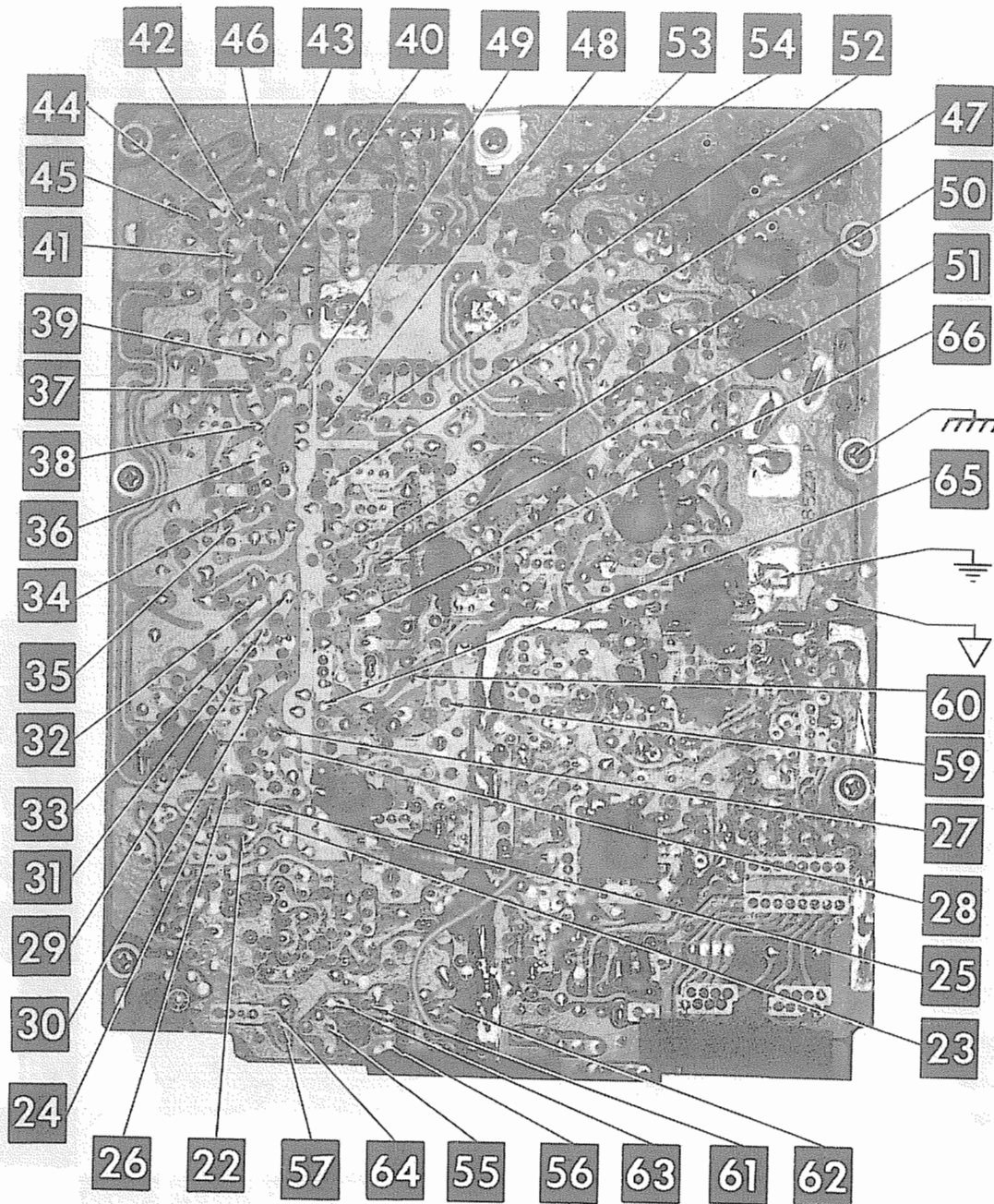
MAIN BOARD



MAIN BOARD

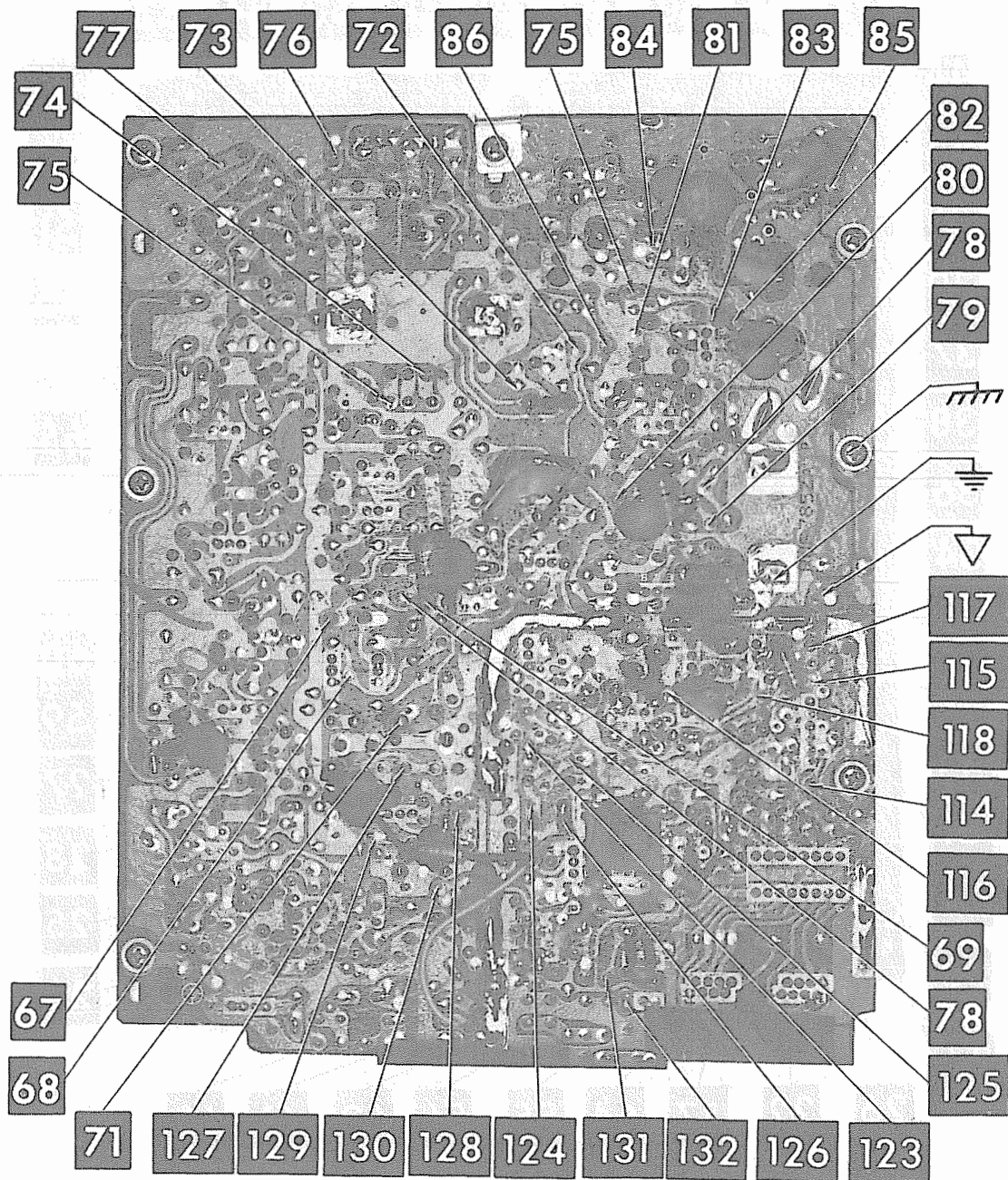


MAIN BOARD

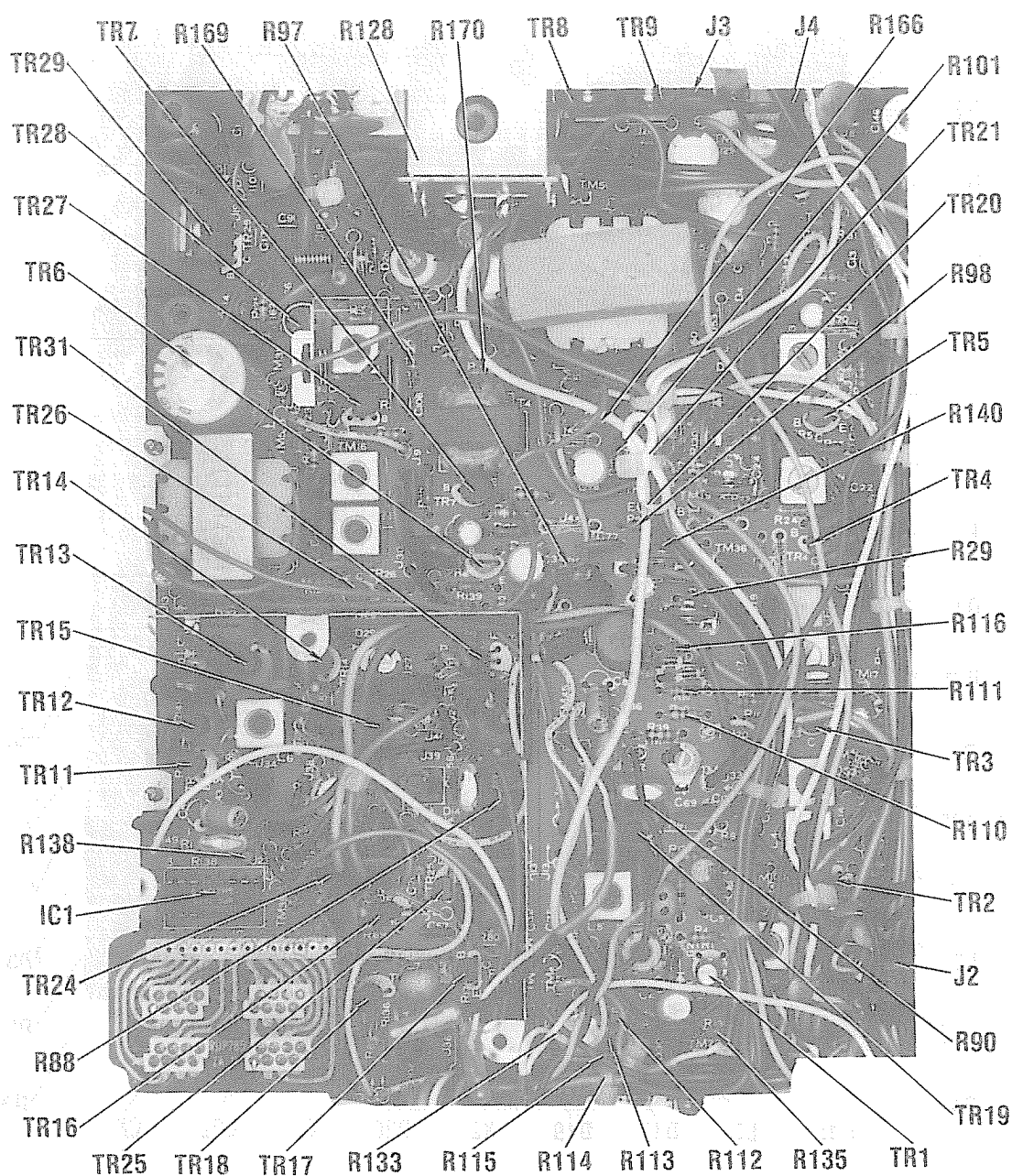


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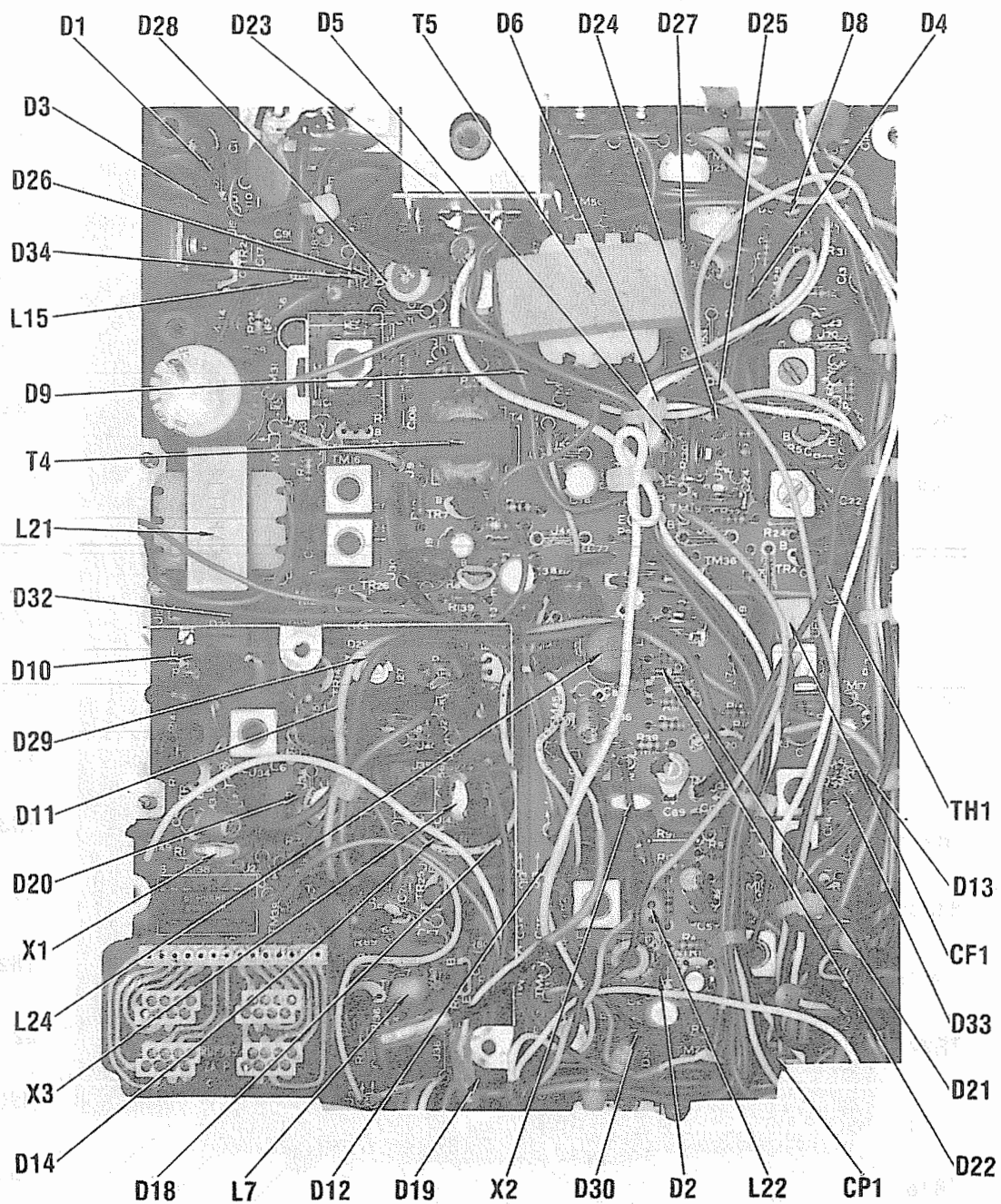
MAIN BOARD



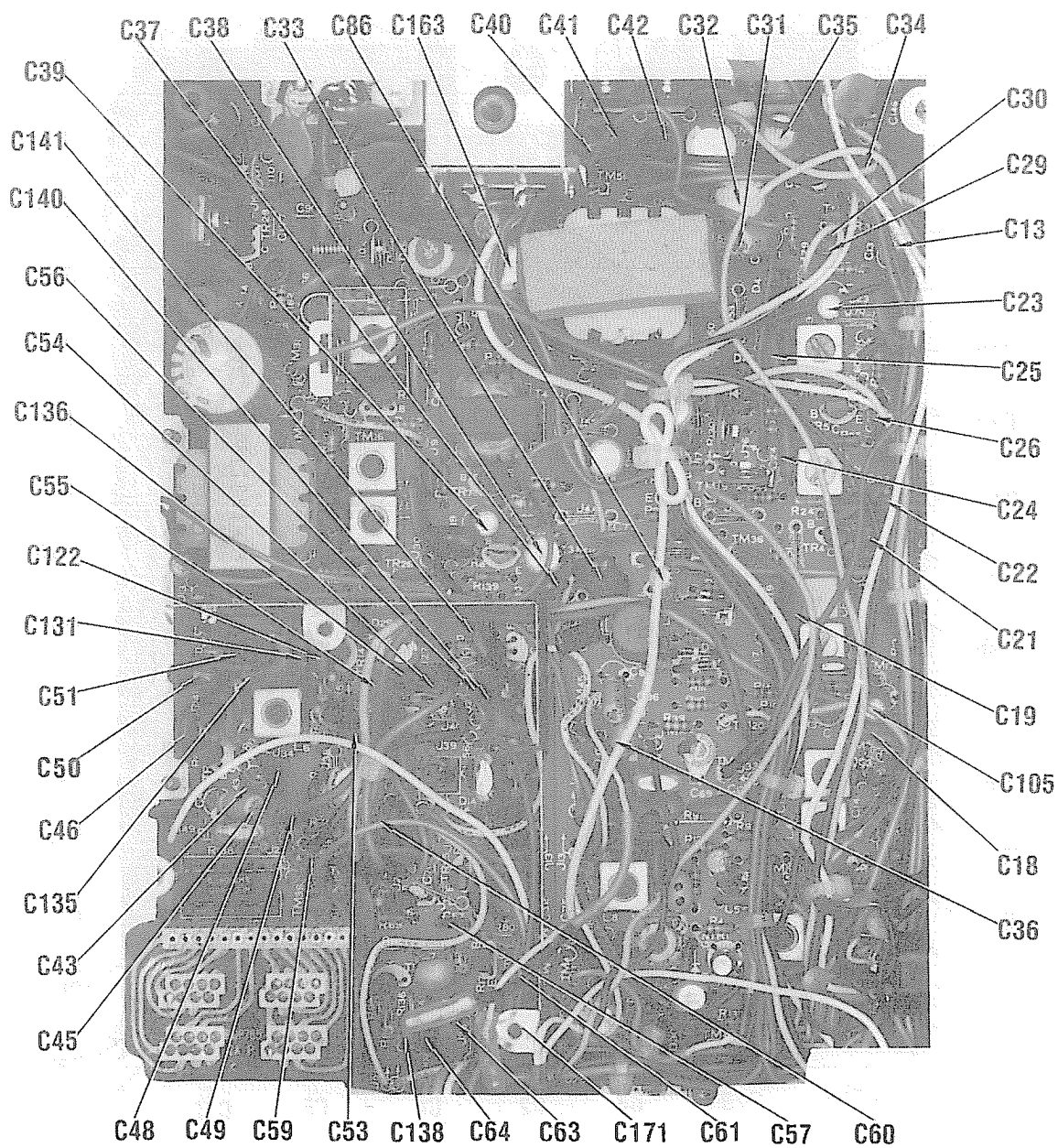
MAIN BOARD

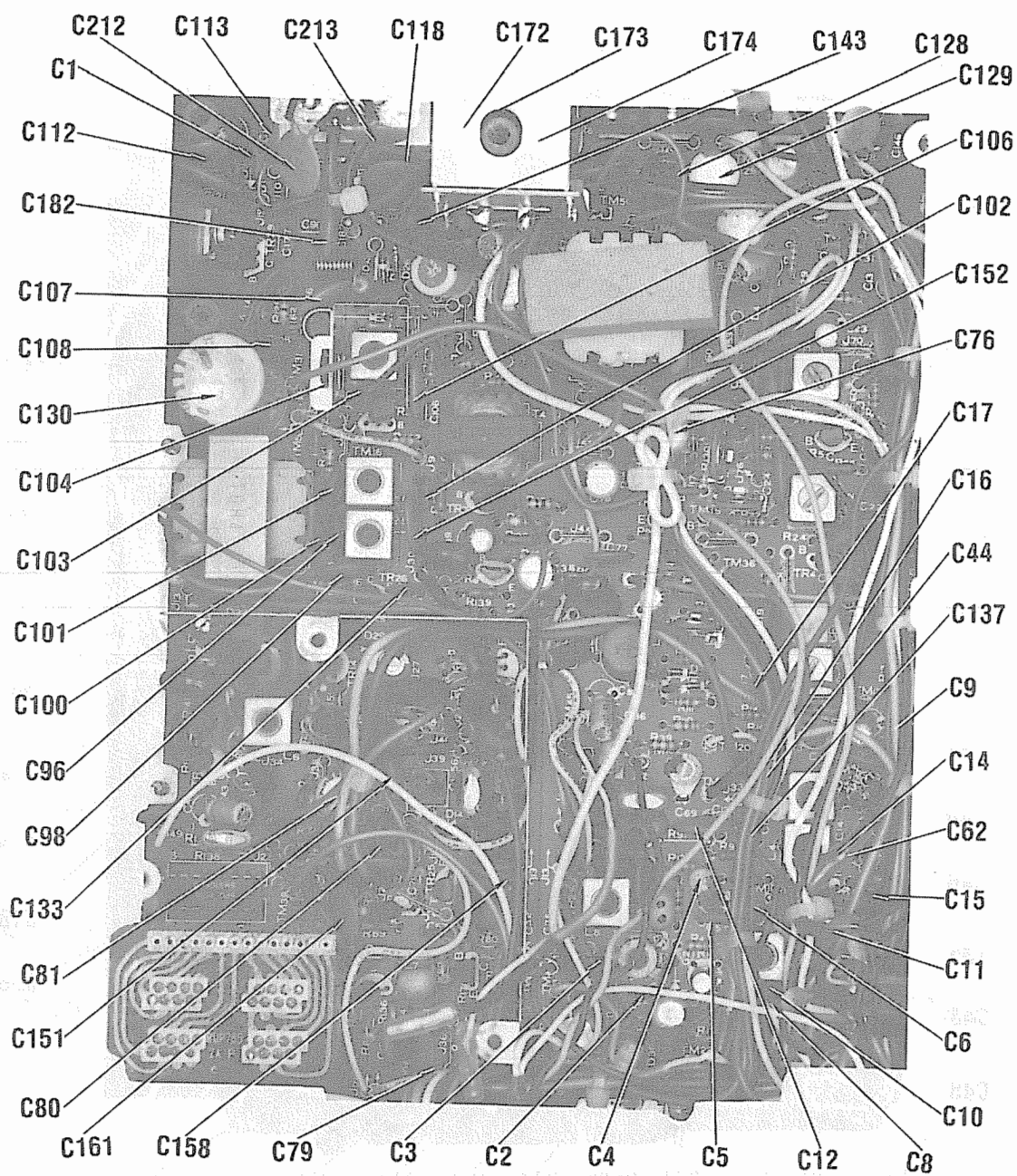


MAIN BOARD

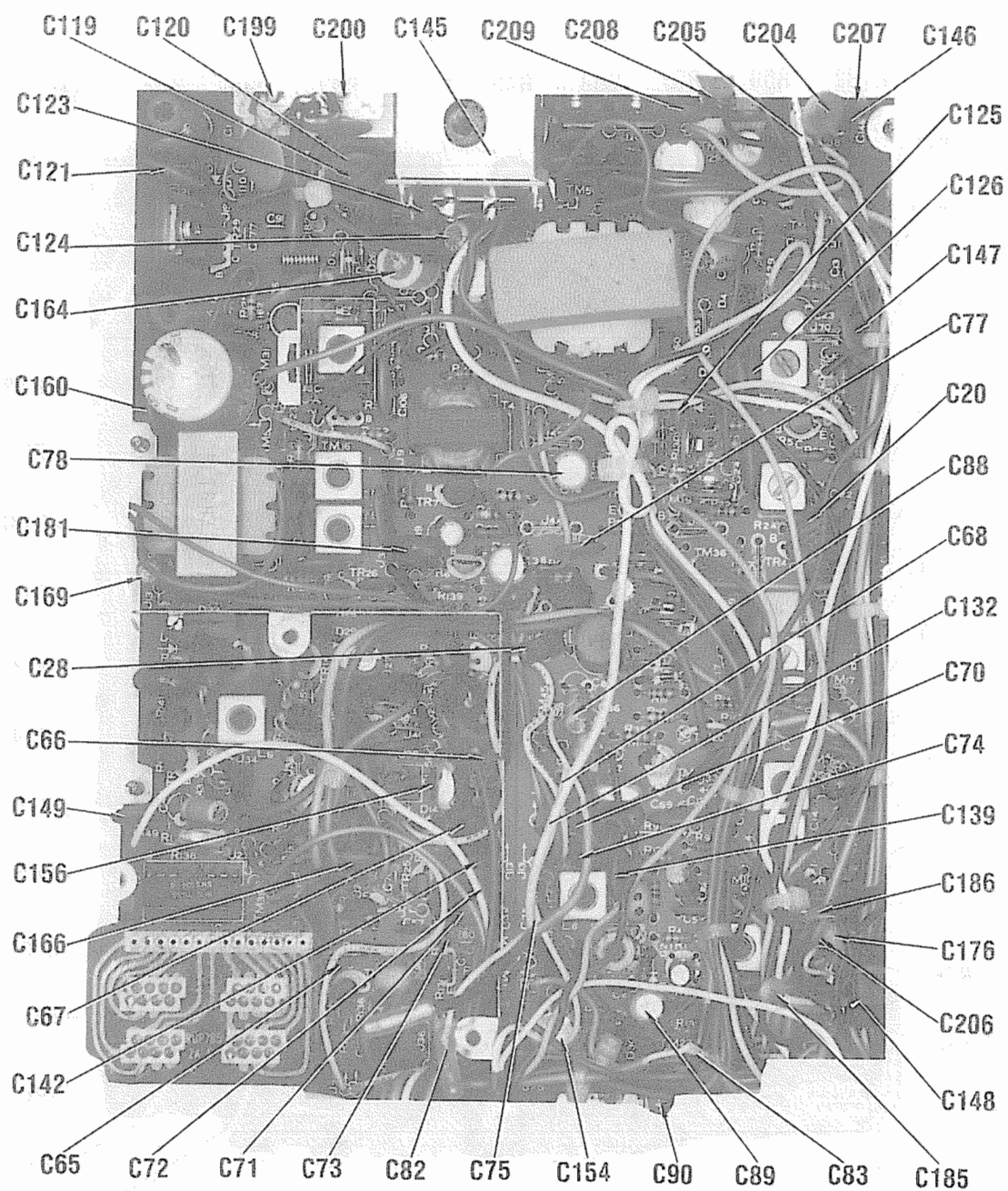


MAIN BOARD

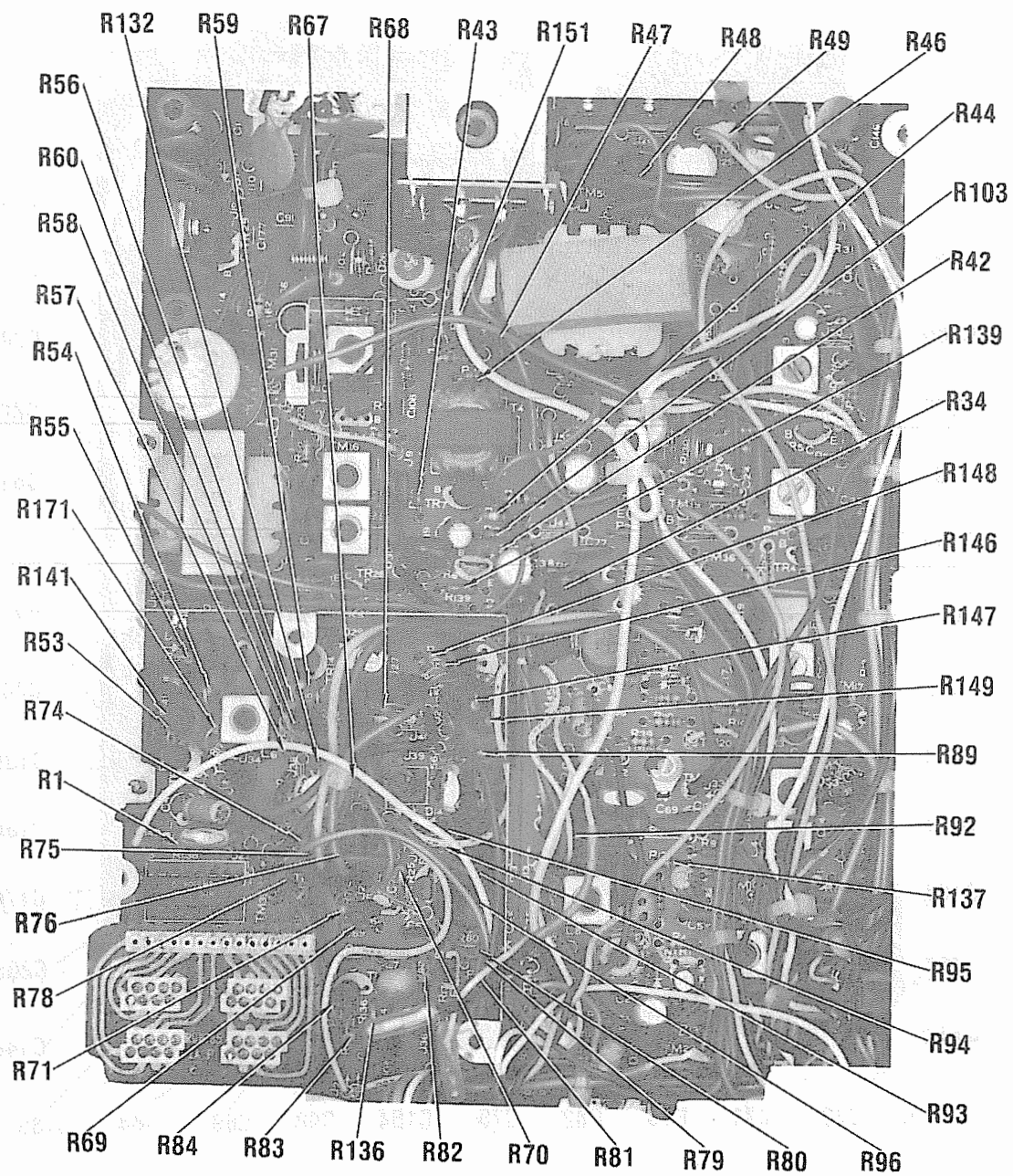




MAIN BOARD

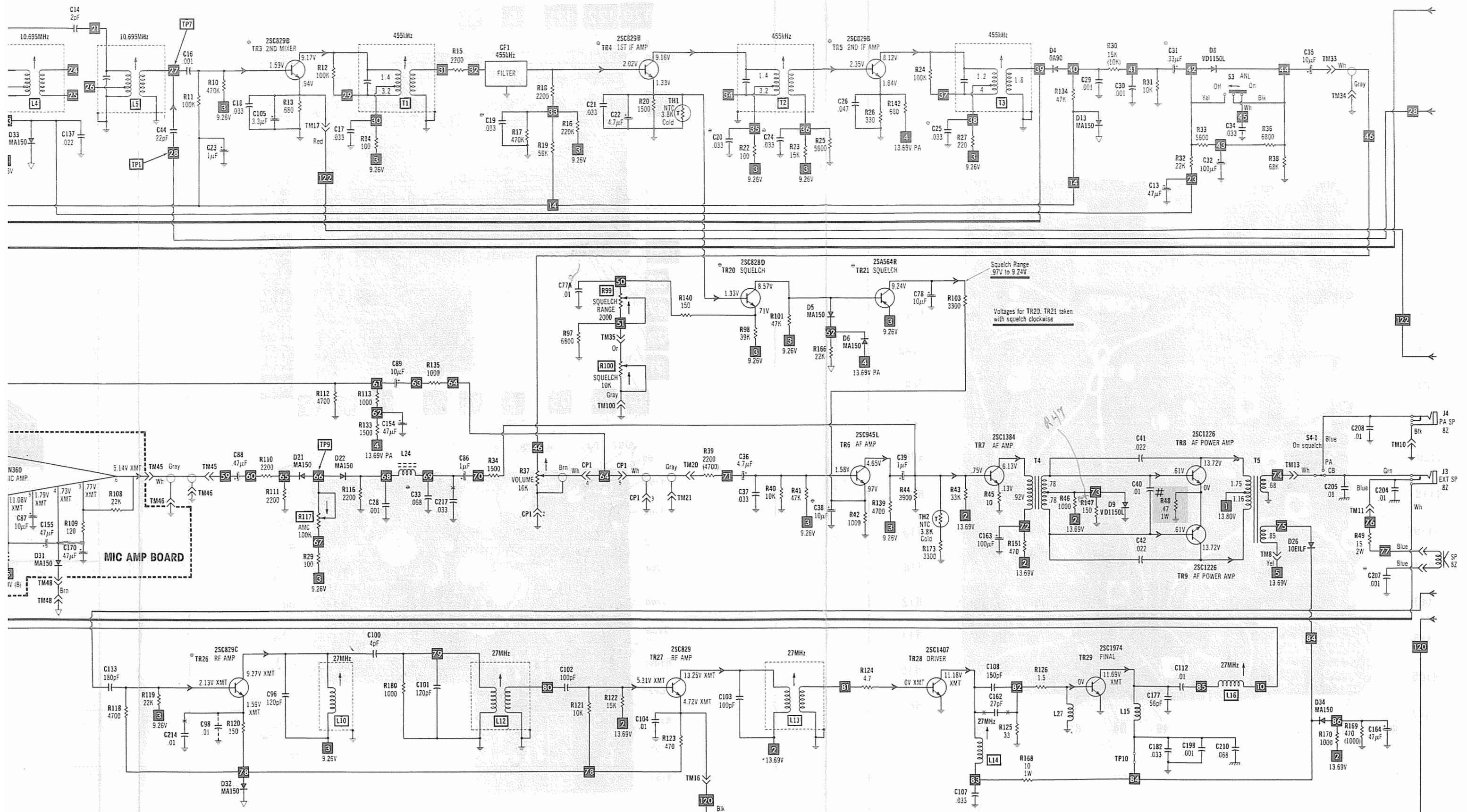


MAIN BOARD



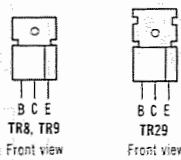
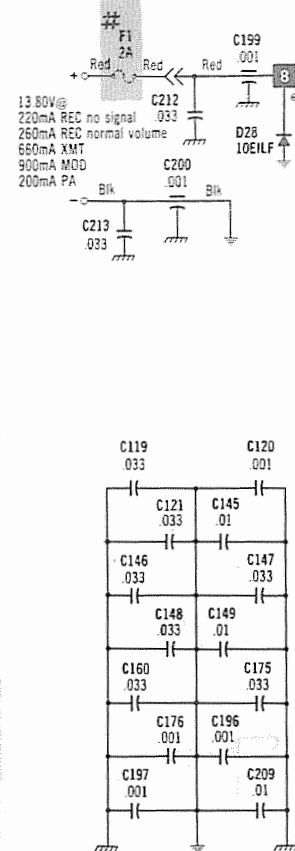
MAIN BOARD

Submit new "instant" for reprint (in cabinet by R. Wilkerson desk.



MAIN SCHEMATIC

PANASONIC MODEL RJ-3150



For SAFETY use only equivalent replacement part.

--- Circuitry not used in some versions

--- Circuitry used in some versions

• See parts list

* Nominal value

⊥ Ground

Chassis

Common tie point

Signal path

Voltage path

Measurements made in Channel 1 with switching as shown unless noted.

Item numbers in rectangles appear in the alignment/adjustment instructions.

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

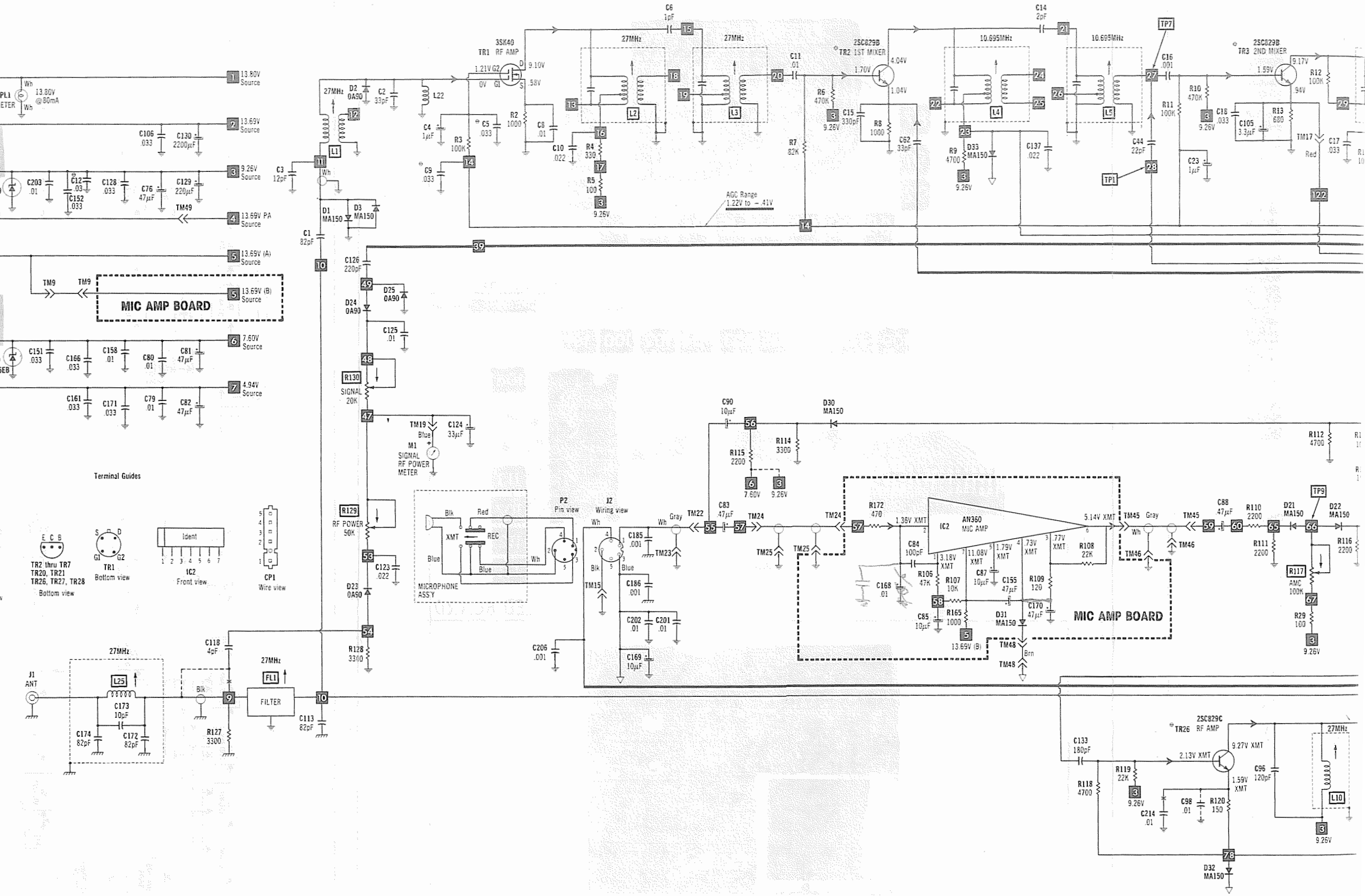
Controls adjusted for normal operation.

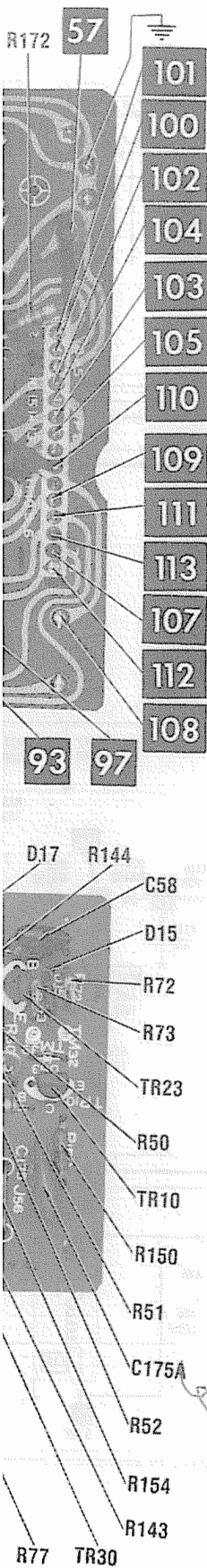
Arrow of control indicates direction of advance.

Terminal identification may not be found on unit.

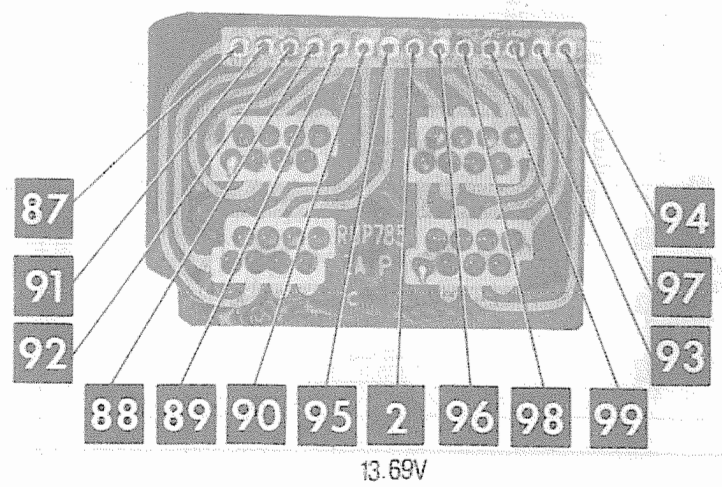
Resistors are 1/2W or less, 5% unless noted.

Value in () used in some versions.

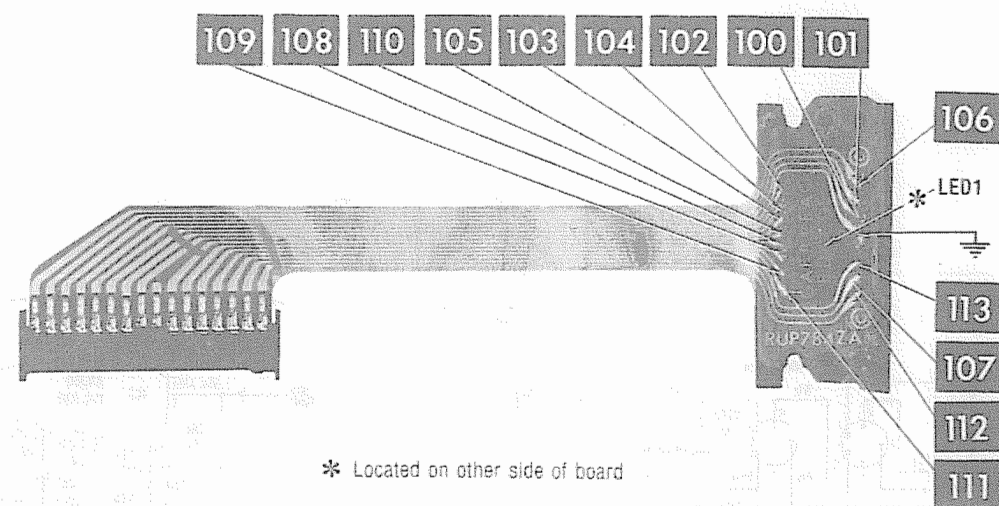




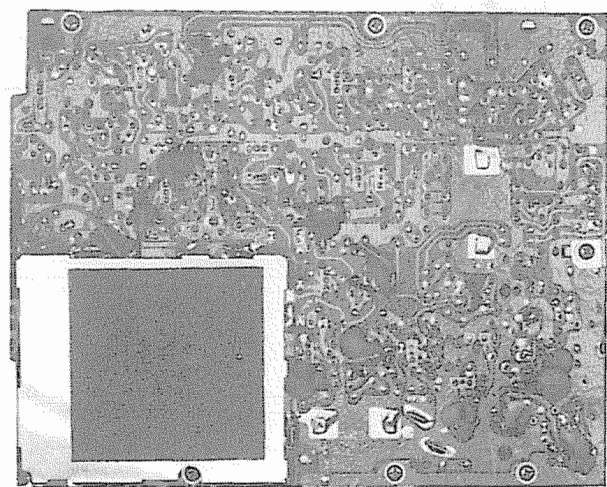
MIC AMP BOARD



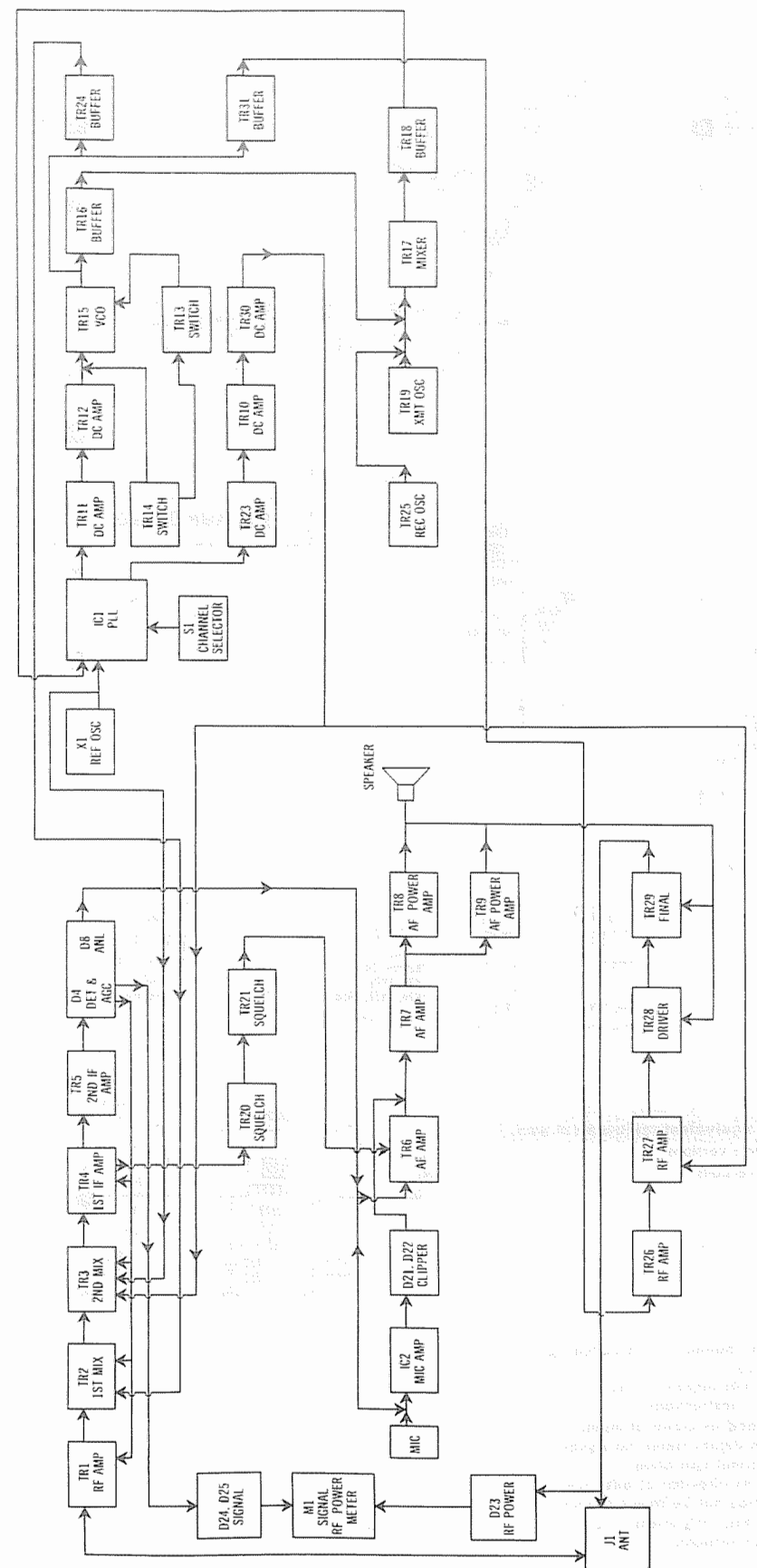
SWITCH BOARD



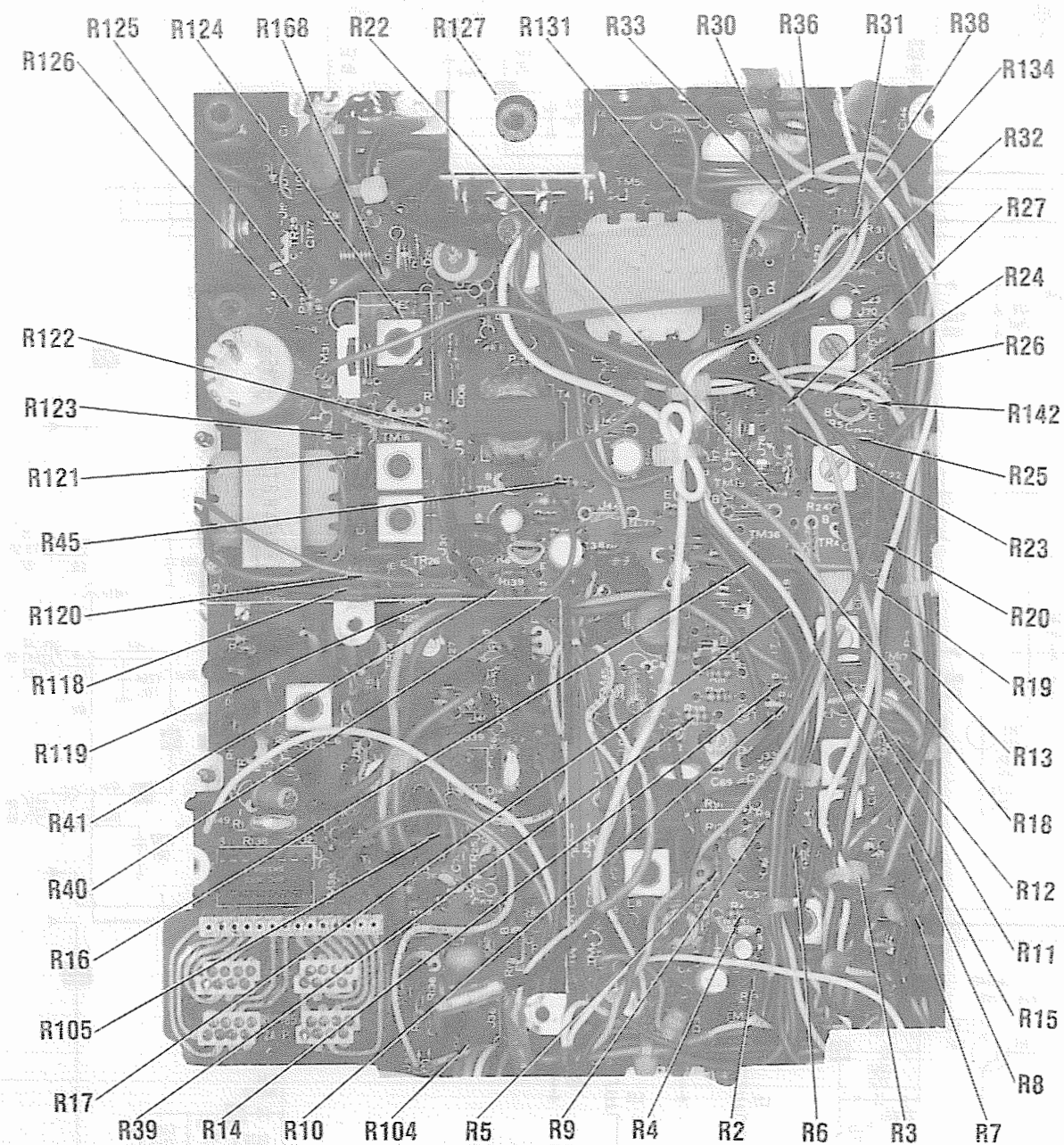
LED BOARD



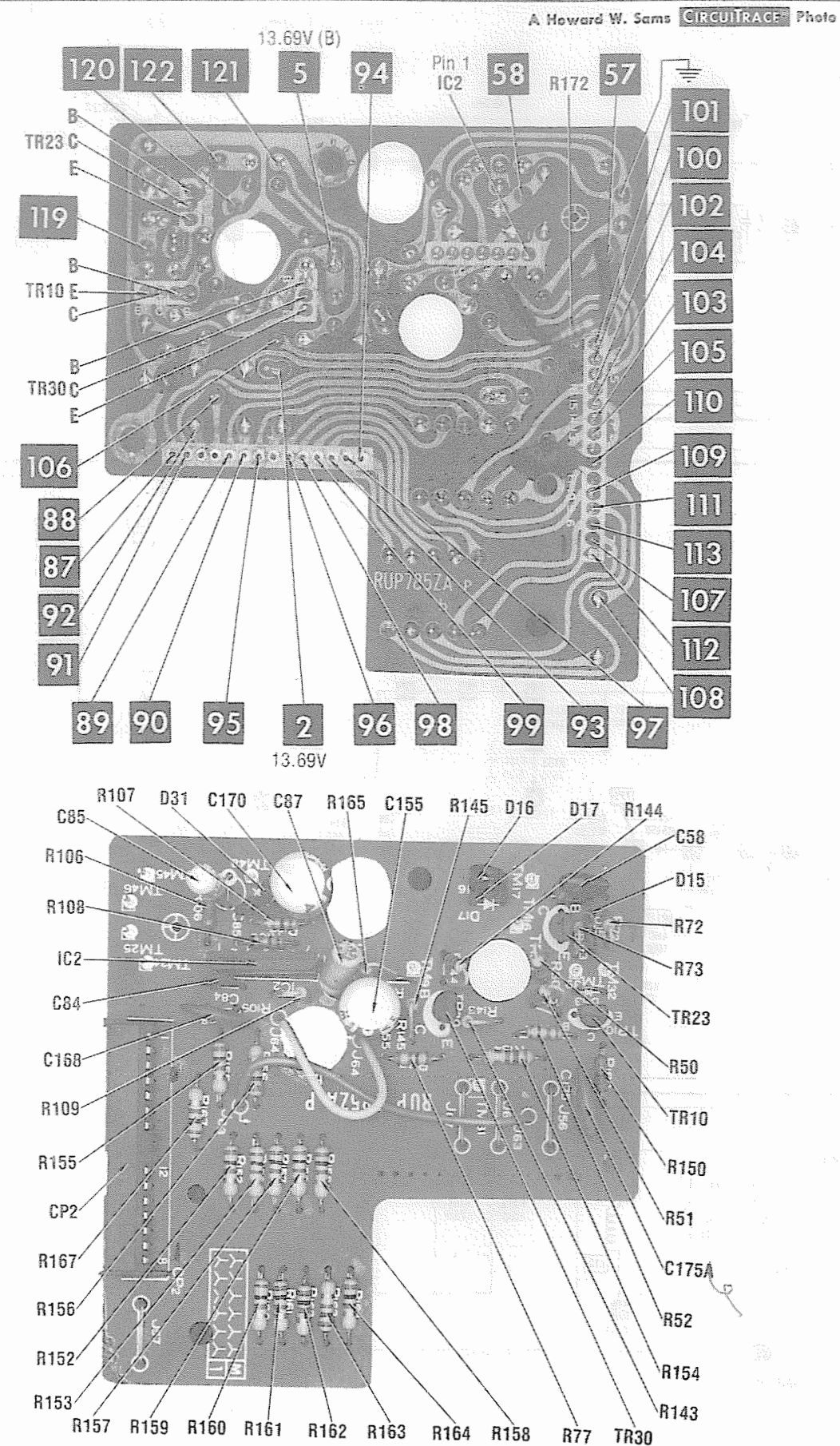
SHIELD LOCATION



BLOCK DIAGRAM



MAIN BOARD



MIC AMP BOARD

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.
C64	68 10%	ECV1Z10X39	DTZ-10	CD15ED680J03	SX468	QW1-23
C65	10 NPO		UK50-103	NP010	CN0410	MMA-680
C66	.01				MAG5011	10TCC-Q10
C67	18 NPO 10%		DTZ-3R3	NP03P3	CN0418	10TCC-Q18
C68	3 NPO				CN0533	10TCC-V33
C69	30					
C70	100 5%			CD15FD101J03	SX310	QW1-27
C71	470 10%			CD15FD471J03	SX347	QW1-42
C72	68 10%			CD15ED680J03	SX468	QW1-23
C73	2					
C74	120 5%	ECCD1H020C	DTZ-4R7	CD15FD121J03	SX312	QW1-29
C75	4 NPO		UK50-103	NP04P7	CN0547	MMA-121
C77	.01		UK50-103		MAG5011	10TCC-V47
C79	.01		UK50-103		MAG5011	
C80	.01		UK50-103		MAG5011	
C84	100 10%		DD-101	GP100	GP310	10TS-T10
C96	120 5%		UK50-103	CD15FD121J03	SX312	MMA-121
C98	.01				MAG5011	
C100	4			GP5	GP550	QC2-1
C101	120 5%			CD15FD121J03	SX312	QW1-29
C102	100 5%	ECV1Z10X39		CD15FD101J03	SX310	QW1-27
C103	100 5%		UK50-103	CD15FD101J03	SX310	QW1-27
C104	.01		UK50-103		MAG5011	
C106	.033		UK50-333		MAG50133	
C107	.033		UK50-333		MAG50133	
C108	150 5%			CD15FD151J03	SX315	QW1-31
C112	.01		UK50-103		MAG5011	
C113	82 10%		DD-820		GP482	10TS-Q82
C118	4			GP5	GP550	QC2-1
C119	.033		UK50-333		MAG50133	
C120	.001	ECCD1H070DC	DD-102		GP210	10TS-D10
C121	.033		UK50-333		MAG50133	
C122	.01		UK50-103		MAG5011	
C123	.022		OC-253	MGP025	TA125	TG-S25
C125	.01		UK50-103		MAG5011	
C126	220 5%			CD15F0221J03	SX322	QW1-35
C128	.033		UK50-333		MAG50133	
C131	.01		UK50-103		MAG5011	
C132	.01		UK50-103		MAG5011	
C133	180 10%		DD-181		GP318	10TS-T18
C134	10	ECV1Z10X39	DTN-22	N22	CN7422	10TCU-Q22
C135	22 N750				CN7439	10TCU-Q39
C136	39 N750		DC-253	MGP025	TA125	TG-S25
C137	.022		UK50-103		MAG5011	
C138	.01		UK50-103		MAG5011	
C139	.01		UK50-103		MAG5011	
C140	7 NPO					
C141	.001		DD-102		GP210	10TS-D10
C142	.01		UK50-103		MAG5011	
C143	.033		UK50-333		MAG50133	
C145	.01	ECCD1H070DC	UK50-103		MAG5011	
C146	.033		UK50-333		MAG50133	
C147	.033		UK50-333		MAG50133	
C148	.033		UK50-333		MAG50133	
C149	.01		UK50-103		MAG5011	
C151	.033		UK50-333		MAG50133	
C152	.033		UK50-333		MAG50133	
C156	10 NPO		DTZ-10	NP010	CN0410	10TCC-Q10
C158	.01		UK50-103		MAG5011	
C160	.033		UK50-333		MAG50133	
C161	.033	ECCD1H070DC	UK50-333		MAG50133	
C162	27 NPO 5%				CN0427	10TCC-Q27
C166	.033		UK50-333		MAG50133	
C168	.01		UK50-103		MAG5011	
C171	.033		UK50-333		MAG50133	
C172	82 NPO 5%		DTZ-82	NP082	CN0482	10TCC-Q82
C173	10 NPO		DTZ-10	NP010	CN0410	10TCC-Q10
C174	82 NPO 5%		DTZ-82	NP082	CN0482	10TCC-Q82
C175	.033		UK50-333		MAG50133	
C176	.001		DD-102		GP210	10TS-D10
C177	56 10%	ECCD1H070DC	DD-560		GP456	10TS-Q56
C181	.1			WMF05P1	EMF05010	1FT-P10
C182	.033		UK50-333		MAG50133	
C185	.001		DD-102		GP210	10TS-D10
C186	.001		DD-102		GP210	10TS-D10
C196	.001		DD-102		GP210	10TS-D10
C197	.001		DD-102		GP210	10TS-D10
C198	.001		DD-102		GP210	10TS-D10
C199	.001		DD-102		GP210	10TS-D10
C200	.001		DD-102		GP210	10TS-D10
C201	.01	ECCD1H070DC	UK50-103		MAG5011	
C202	.01		UK50-103		MAG5011	
C203	.01		UK50-103		MAG5011	
C204	.01		UK50-103		MAG5011	
C205	.01		UK50-103		MAG5011	
C206	.001		DD-102		GP210	10TS-D10
C207	.001		DD-102		GP210	10TS-D10
C208	.01		UK50-103		MAG5011	
C209	.01		UK50-103		MAG5011	
C210	.068		UK25-683		MAG25168	HY-740
C211	5 NPO					10TCC-V50

PANASONIC MODEL RJ-3150

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C212	.033		UK50-333		MAG50133	
C213	.033		UK50-333		MAG50133	
C214	.01		UK50-103		MAG5011	
C215	5 NPO					10TCC-V50
C216	7 NPO			DPMS6533	M192P3339R8	QFT2-149
C217	.033					1FT-S33

*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	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
R37	Volume/Power Switch	10K	RVV14061-A			
R99	Squelch Range	2000	EVLTOAA00823	T-2500(2)	MTC23L1(2)	X201R252B(2)
R100	Squelch/PA Switch	10K	RVV14C62-A			
R117	AMC	100K	EVLTOAA00815	T-100K(2)	MTC15L1(2)	X201R104B(2)
R129	RF Power Meter	50K	EVLTOAA00854	T-50K(2)	MTC54L1(2)	X201R503B(2)
R130	Signal Meter	20K	EVLTOAA00824	T-20K(2)	MTC24L1(2)	X201R253B(2)

(2) Cut off one of the end terminals and bend to fit PC Board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
R48	.470 1W +5%		ERX1ANJR47	R131	68 1W +5%		ERG1ANJ680
R104	120 1W +5%		ERG1ANJ121	TH1	3800 Cold NTC		RT103
R105	120 1W +5%		ERG1ANJ121	TH2	3800 Cold NTC		

For SAFETY use only equivalent replacement part.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Antenna Matching	RLA7R41-Z	A7R471		
L2	RF Amp (27MHz)	RLA7C27-Z	A7C27Z		
L3	RF Amp (27MHz)	RLA7C27-Z			
L4	Mixer (10.695MHz)	RLD7CB-Z	D7CBZ		
L5	Mixer (10.695MHz)	RLD7CB-Z			
L6	PLL VCO	RLQ7R21-Z	07R21Z		
L7	Low Pass Filter	RLQ24701-D			
L8	XMT Osc (29.515MHz)	RLA7C28-Z	A7C28Z		
L9	Rec Osc (18.820MHz)	RLA7N18-0			
L10	RF Amp (27MHz)	RLA7C29-Z	A7C29Z		
L12	RF Amp (27MHz)	RLA7C28-Z	A7C28Z		
L13	RF Amp (27MHz)	RLA7R43-Z	7R43Z		
L14	Driver (27MHz)	RLA7Q10-M			
L15	RF Choke	RLQY3052-0			
L16	Final (27MHz)	RLA7Q10-M			
L22	RF Choke	RLQ21002-D			
L24	Low Pass Filter	RLQ21541-Y	154J		
L25	PI Filter	RLA7Q10-M			
L27	RF Choke	RLQ268S1-Y			
T1	Mixer (455kHz)	RLI2C246-M	R68		
T2	IF Amp (455kHz)	RLI2C246-M	1-2C-246M-0CC3		
T3	IF Amp (455kHz)	RLI2C446-M	1-2C-446M-0UC3		

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L21	660mA	.256	1mH	RLT6H4-W			(1)Number on unit.

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.	
					Q-LINE	GENERAL LINE
C4	1 50V	ECEA50V1	PC1-50	VTT1A50	QV1-11	EV-1615
C13	47 10V	ECEA10V47	PC50-16	VTT47D16	QV1-73	EV-1226
C22	4.7 35V	ECEA35V4R7	PC5-50	VTT47B50	QV1-29	EV-1519
C23	1 50V	ECEA50V1	PC1-50	VTT1A50	QV1-11	EV-1615
C31	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C32	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C35	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C35	4.7 35V	ECEA35V4R7	PC5-50	VTT47B50	QV1-29	EV-1519
C38	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C39	1 50V	ECEA50V1	PC1-50	VTT1A50	QV1-11	EV-1615
C45	.47 50V	ECEA50ZR47	PC1-50	VTT47A63	QV1-3	EV-1610
C76	47 25V		PC50-25	VTT47E25	QV1-75	EV-1326
C78	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C81	47 25V		PC50-25	VTT47E25	QV1-75	EV-1326
C82	47 10V	ECEA10V47	PC50-16	VTT47D16	QV1-73	EV-1226
C83	.47 50V	ECEA50ZR47	PC1-50	VTT47A63	QV1-3	EV-1610
C85	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C86	1 50V	ECEA50V1	PC1-50	VTT1A50	QV1-11	EV-1615
C87	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C88	.47 50V	ECEA50ZR47	PC1-50	VTT47A63	QV1-3	EV-1610
C89	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C90	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C105	3.3 25V	ECEA25V3R3	PC5-50	VTT3R3A50	QV1-23	EV-1318
C124	33 16V	ECEA16V33	PC30-25	VTT33D25	QV1-63	EV-1325
C129	220 16V	ECEA16V220	PC250-25	VTT220H16	QV1-117	EV-1240
C130	2200 16V	ECEA16V2200	WBR2000-16*	TC1520C*	QE1-643*	TVA-1175.3*
C154	47 25V		PC50-25	VTT47E25	QV1-75	EV-1326
C155	47 25V		PC50-25	VTT47E25	QV1-75	EV-1326
C163	100 16V	ECEA16V100	PC100-16	VTT100F16	QV1-95	EV-1230
C164	47 25V	ECEA25V47	PC50-25	VTT47E25	QV1-75	EV-1326
C169	10 16V	ECEA16V10	PC10-25	VTT10B25	QV1-41	EV-1222
C170	47 25V		PC50-25	VTT47E25	QV1-75	EV-1326

*Axial replacement for radial device.

CAPACITORS

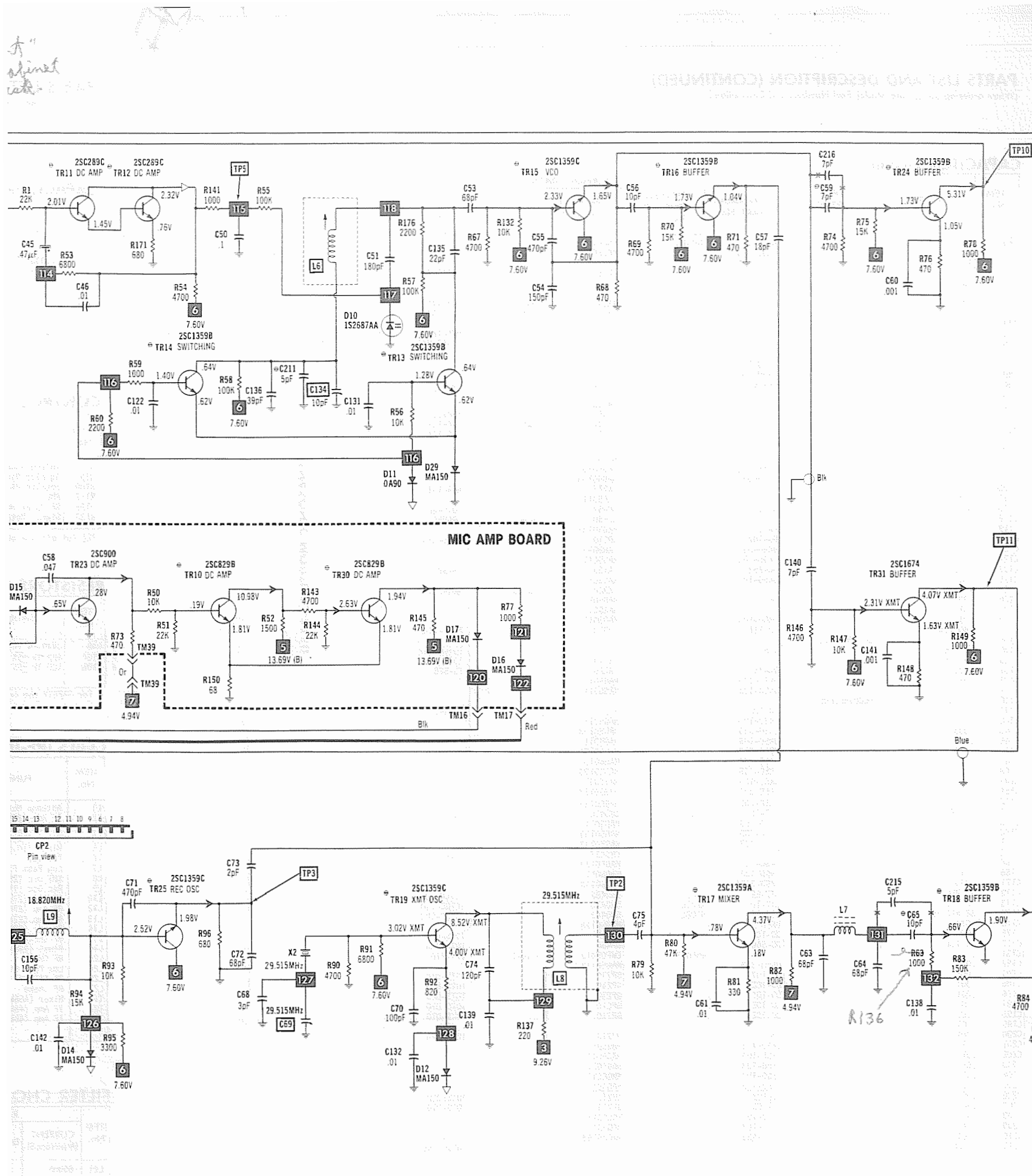
ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	82 NPO 5%		DTZ-82	NP082	CN0482		10TCC-Q82
C2	33 NPO 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C3	12 NPO				CN0412		10TCC-Q12
C5	.033		UK50-333		MAG50133		
C6	.01						
C8	.033		UK50-103		MAG5011		
C9	.033		UK50-333		MAG50133		
C10	.022		DC-253	MGP025	TA125		TG-S25
C11	.01		UK50-103		MAG5011		
C12	.033		UK50-333		MAG50133		
C14	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C15	330 10%		DD-331	GP330	GP333		10TS-T33
C16	.001		DD-102		GP210		10TS-D10
C17	.033		UK50-333		MAG50133		
C18	.033		UK50-333		MAG50133		
C19	.033		UK50-333		MAG50133		
C20	.033		UK50-333		MAG50133		
C21	.033		UK50-333		MAG50133		
C24	.033		UK50-333		MAG50133		
C25	.033		UK50-333		MAG50133		
C26	.047			DPMS2S47	EWFI1A147	QFT2-171	1FT-S47
C28	.001			DPMS6P1	EWFI1A210	QFT2-1	1FT-D10
C29	.001		DD-102		GP210		10TS-D10
C30	.001		DD-102		GP210		10TS-D10
C33	.068				GP210		10TS-D10
C34	.033			WMF1S68	EWFI1A168	QF1-195	1PB-S68
C37	.033			WMF0SP1	EWFO5010	QFT2-215	1FT-P10
C40	.01			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C41	.022			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C42	.022				MAG5011		
C43	10 NPO		DTZ-10	DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C44	22 NPO 10%		DTZ-22	DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C46	.01		UK50-103	NP010	CN0410		10TCC-Q10
C48	18 NPO 10%			NP022	CN0422		10TCC-Q22
C49	47 NPO 10%				MAG5011		10TCC-Q18
C50	.1		DTZ-47	NP047	CN0447		10TCC-Q47
C51	180 5%			WMF0SP1	EWFO5010	QFT2-215	1FT-P10
C53	68 10%			CD15FD181J03	SX318	QW1-33	MMA-181
C54	150 5%			CD15ED680J03	SX468	QW1-23	MMA-680
C55	470 5%			CD15FD151J03	SX315	QW1-31	MMA-151
C56	10 NPO			CD15FD471J03	SX347	QW1-42	MMA-471
C57	18 NPO 10%		DTZ-10	NP010	CN0410		10TCC-Q10
C58	.047				CN0418		10TCC-Q18
C59	3			DPMS2S47	EWFI1A147	QFT2-171	1FT-S47
C60	.001			GP5	GP550	QC2-1	10TS-D10
C61	.01		DD-102		GP210		
C62	33 NPO 10%		UK50-103		MAG5011		
C63	68 10%		DTZ-33	NP033	CN0433		10TCC-Q33
				CD15ED680J03	SX468		MMA-680

PARTS LIST AND DESCRIPTION (CONTINUED)
(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C64	68 10%			CD15ED680J03	SX468	QW1-23	MMA-680
C65	10 NPO		DTZ-10	NP010	CN0410		10TCC-Q10
C66	.01		UK50-103		MAG5011		
C67	18 NPO 10%				CN0418		10TCC-Q18
C68	3 NPO		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C69	.30						
C70	100 5%			CD15FD101J03	SX310	QW1-27	MMA-101
C71	470 10%			CD15FD471J03	SX347	QW1-42	MMA-471
C72	68 10%			CD15ED680J03	SX468	QW1-23	MMA-680
C73	2						
C74	120 5%			CD15FD121J03	SX312	QW1-29	MMA-121
C75	4 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C77	.01		UK50-103		MAG5011		
C79	.01		UK50-103		MAG5011		
C80	.01		UK50-103		MAG5011		
C84	100 10%		DD-101	GP100	GP310	QW1-29	10TS-T10
C96	120 5%			CD15FD121J03	SX312		MMA-121
C98	.01		UK50-103		MAG5011		
C100	4			GP5	GP550	QC2-1	56AV50
C101	120 5%			CD15FD121J03	SX312	QW1-29	MMA-121
C102	100 5%			CD15FD101J03	SX310	QW1-27	MMA-101
C103	100 5%			CD15FD101J03	SX310		
C104	.01		UK50-103		MAG5011		
C106	.033		UK50-333		MAG50133		
C107	.033		UK50-333		MAG50133		
C108	150 5%			CD15FD151J03	SX315	QW1-31	MMA-151
C112	.01		UK50-103		MAG5011		
C113	82 10%		DD-820	GP482	GP482	QC2-1	10TS-Q82
C118	4			GP5	GP550		56AV50
C119	.033		UK50-333		MAG50133		
C120	.001		DD-102		GP210		10TS-D10
C121	.033		UK50-333		MAG50133		
C122	.01		UK50-103		MAG5011		
C123	.022		DC-253	MGP025	TA125		TG-S25
C125	.01		UK50-103		MAG5011		
C126	220 5%			CD15FD221J03	SX322	QW1-35	MMA-221
C128	.033		UK50-333		MAG50133		
C131	.01		UK50-103		MAG5011		
C132	.01		UK50-103		MAG5011		
C133	180 10%		DD-181		GP318		10TS-T18
C134	10						
C135	22 N750						
C136	39 N750						
C137	.022		DC-253	MGP025	TA125		10TCU-Q39
C138	.01		UK50-103		MAG5011		TG-S25
C139	.01		UK50-103		MAG5011		
C140	7 NPO						
C141	.001		DD-102		GP210		10TS-D10
C142	.01		UK50-103		MAG5011		
C143	.033		UK50-333		MAG50133		
C145	.01		UK50-103		MAG5011		
C146	.033		UK50-333		MAG50133		
C147	.033		UK50-333		MAG50133		
C148	.033		UK50-333		MAG50133		
C149	.01		UK50-103		MAG5011		
C151	.033		UK50-333		MAG50133		
C152	.033		UK50-333		MAG50133		
C156	10 NPO		DTZ-10	NP010	CN0410		10TCC-Q10
C158	.01		UK50-103		MAG5011		
C160	.033		UK50-333		MAG50133		
C161	.033		UK50-333		MAG50133		
C162	27 NPO 5%				CN0427		10TCC-Q27
C166	.033		UK50-333		MAG50133		
C168	.01		UK50-103		MAG5011		
C171	.033		UK50-333		MAG50133		
C172	82 NPO 5%		DTZ-82	NP082	CN0482		10TCC-Q82
C173	10 NPO		DTZ-10	NP010	CN0410		10TCC-Q10
C174	82 NPO 5%		DTZ-82	NP082	CN0482		10TCC-Q82
C175	.033		UK50-333		MAG50133		
C176	.001		DD-102		GP210		10TS-D10
C177	56 10%		DD-560		GP456		10TS-Q56
C181	.1			WMF0SP1	EWFO5010	QFT2-215	1FT-P10
C182	.033		UK50-333		MAG50133		
C185	.001		DD-102		GP210		10TS-D10
C186	.001		DD-102		GP210		10TS-D10
C196	.001		DD-102		GP210		10TS-D10
C197	.001		DD-102		GP210		10TS-D10
C198	.001		DD-102		GP210		10TS-D10
C199	.001		DD-102		GP210		10TS-D10
C200	.001		DD-102		GP210		10TS-D10
C201	.01		UK50-103		MAG5011		
C202	.01		UK50-103		MAG5011		
C203	.01		UK50-103		MAG5011		
C204	.01		UK50-103		MAG5011		
C205	.01		UK50-103		MAG5011		
C206	.001		DD-102		GP210		10TS-D10
C207	.001		DD-102		GP210		10TS-D10
C208	.01		UK50-103		MAG5011		
C209	.01		UK50-103		MAG5011		
C210	.068		UK25-683		MAG25168		HY-740
C211	5 NPO						10TCC-V50

PANASONIC MODEL RJ-3150



PLL SCHEMATIC

PARTS LIST AND DESCRIPTION

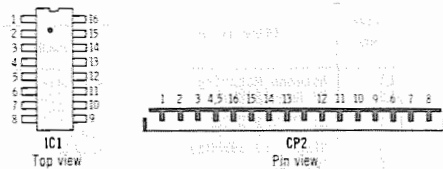
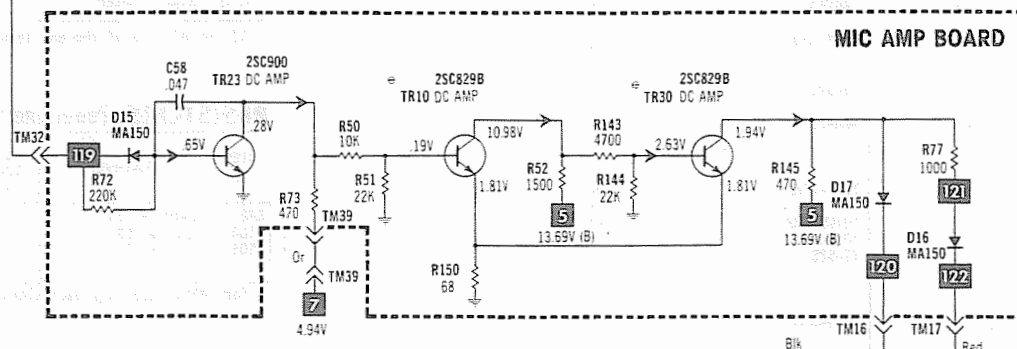
(When ordering parts, state Model, Part Number, and Description.)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D2	0A90		1N60	PTC206	HEPR0135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D3	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D4	0A90		1N60	PTC206	HEPR0135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D5	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D6	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D8	VD1150L	RVDVD1150L		PTC301	HEPR0602	REN 601	SK3463	RT-218	ECG601	TM177	WEP1062	103-131
D9	VD1150L	RVDVD1150L		PTC301	HEPR0602	REN 601	SK3463	RT-218	ECG601	TM177	WEP1062	103-131
D10	1S2687AA				HEPR2502	REN 612	SK3088	RT-263	ECG612	TM109/**	WEP134	103-176
D11	0A90		1N60	PTC206	HEPR0135	REN 109	SK3088	RT-218	ECG109	TM177	WEP1062	103-131
D12	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D13	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D14	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D15	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D16	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D17	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D18	1S2687AA				HEPR2502	REN 612	SK3088	RT-218	ECG612	TM109/**	WEP134	103-176
D19	1N4733	RVDIN4733	GEZD-5.1		HEPR2502	REN 612	SK3088	RT-218	ECG612	TM109/**	WEP134	103-176
D20	RD7R5EB	RVD7R5EB	GEZD-7.5	ZB7.58	HEPR2502	REN 612	SK3088	RT-218	ECG612	TM109/**	WEP134	103-176
D21	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D22	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D23	0A90		1N60	PTC206	HEPR0135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D24	0A90		1N60	PTC206	HEPR0135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D25	0A90		1N60	PTC206	HEPR0135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D26	10E1LF	RVD10E1LF	GE-504A	PTC201	HEPR0052	REN 116	SK3060	RT-213	ECG116	TM116	WEP156	212-76-02
D27	1N4739	RVD1N4739	GEZD-9.1	ZB9.1A	HEPR0052	REN 116	SK3060	RT-213	ECG116	TM116	WEP156	212-76-02
D28	10E1LF	RVD10E1LF	GE-504A	PTC201	HEPR0052	REN 116	SK3060	RT-213	ECG116	TM116	WEP156	212-76-02
D29	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D30	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D31	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D32	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D33	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D34	MA150		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
IC1	SM5104G				HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
IC2	AN360		GEIC-295	PTC182	HEPR2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-926
TR1	2SC829B		GE-FET-4	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR2	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR3	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR4	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR5	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR6	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR7	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR8	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR9	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR10	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR11	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR12	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR13	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR14	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR15	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR16	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR17	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR18	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR19	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR20	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR21	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR22	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR23	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR24	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR25	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR26	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR27	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR28	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR29	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR30	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-29021*
TR31	2SC1674		GE-61	PTC132*	HEPS0010*	REN 107	SK3246	RT-308	ECG229*	TM229*	WEP956*	121-29021*

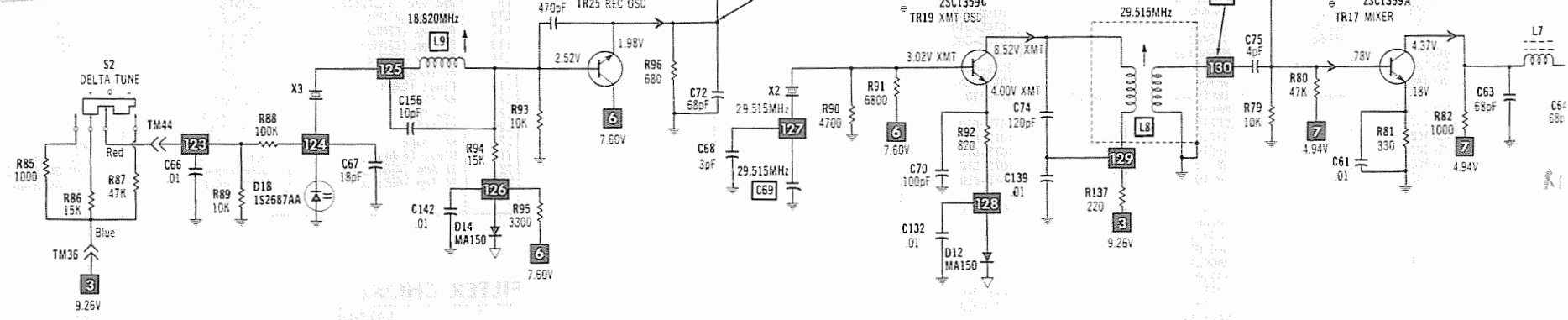
* Lead configuration may vary from original.
 /** Also available as exact type replacement.

for reprint. (C.M. 100)
A Williamson death.



- A PHOTOFACT STANDARD NOTATION SCHEMATIC

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PAI

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T4	1	1		RLT3F33-W RLJ3F33-T(1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T5	13.52	1 8 20.48	RLT412-V RLT412-W(1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3" PM 8 Ohms	EASBP65G BP65G(1)	30A052BR	(1) Number on unit.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
# F1	2A Quick Acting	XBATE20NR5		AGC-2	HRK	312002	150145

For SAFETY use only equivalent replacement part.

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	RJM131Z-H	18-032	18-034	18-010		1	2	3	4	NC	2	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	EFCL455K40B1	455kHz
FL1	Filter	RLE5006	27MHz
J1	Jack	RJS258Y	Antenna
J2	Jack	RJS263Z-H	Microphone
J3	Jack	RJJ55A	Ext. Speaker
J4	Jack	RJJ55A	PA Speaker
LED1	LED	RAD301ZE	Channel Display (Each segment supplied 1.68V @ 12.4mA)
M1	Meter	RSM2524Z	S/RF Power
PL1	Lamp		Meter (13.80V @ 80mA)
P2	Plug		Microphone
S1	Switch	RSRX002Z-A	Channel Selector
S2	Switch	RST3803Z-H	Delta Tune
S3	Switch	RST2807Z-H	ANL On/Off
S4	Switch		CB/PA (Part of Squelch)
S5	Switch		Power On/Off (Part of Volume)
X1	Crystal	RVCX10240Q4Z	10.240MHz
X2	Crystal	RVCX29515Q4Z	29.515MHz
X3	Crystal	RVCX18820Q4Z	18.820MHz

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

ITEM	PART No.	ITEM	PART No.
Cabinet Assembly, Upper Side	RYFJ3150M	Bracket (Plastic), Both Sides	RKC38Z
Cabinet Cover, Lower Side	RKF345Z	Knob, Controls	RBN401Z
		Knob, Channel Selector	RBN402Z

WIRING DATA

General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded) 23AWG	BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672	28AWG	BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106	31AWG	BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded) 23AWG	BELDEN No. 8415 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

PANASONIC MODEL RJ-3150

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Listing all models/chassis covered in
PHOTOFACT CB (Citizens Band) Series volumes

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