



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES AND REGULATIONS PART 95, SUBPARTS 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-123B

ALIGNMENT

Suggested Alignment Tools:	GC ELECTRONICS:
T2, T3, T4	5000, 8290
ALL OTHERS	9440

REGENCY MODEL CR-123B

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Frequency Counter	1	CT1	11.085 MHz	Connect counter between TP2 and TP4. Mode Switch to AM. SLIDE-O-TUNE 1/2 mesh.
	5	CT2	11.855 MHz	
	9	CT3	11.905 MHz	
	13	CT4	11.955 MHz	
	17	CT5	12.005 MHz	
	21	CT6	12.055 MHz	
	1	CT7	7.3615 MHz	Ground TP2. Mode Switch to AM. Connect counter to junction of L3 and T9.
	2	CT8	7.3715 MHz	
	3	CT9	7.3815 MHz	
	4	CT10	7.4015 MHz	
	1	CT11	7.3585 MHz	Same as above. Mode Switch to LSB.
	2	CT12	7.3685 MHz	
	3	CT13	7.3785 MHz	
	4	CT14	7.3985 MHz	
	Any	CT15	7.7985 MHz	Connect counter between TP6 and TP4. Mode Switch to USB.
	Any	CT16	7.8015 MHz	Same as above. Mode Switch to USB.

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

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RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
 Adjust VR19 for 14 V DC at L15.
 Adjust volume control to obtain suitable reading.

ALIGNMENT

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
455 kHz IF High side thru a .01 uF to base of TR2, low side to ground. Set to 455 kHz, 1000 Hz @ 30% Modulation Output MIN. uV.	Any	T2, T3, T4	Set to AM Mode. Adjust for maximum.
RF High side thru a .01 uF cap to Antenna Connector, low side to ground. Set to 27.085 MHz, 1000 Hz @ 30% Modulation Output MIN. uV.	11	T5, T6, T7, T8, T1	Set to AM Mode. Adjust for maximum.
SSB IF High side thru a .01 uF cap to base of TR22, low side to ground. Set to 7.8 MHz, output MIN. uV.	11	T16, T14, T15	Set to LSB Mode. An audio beat will be produced by the SSB OSC and the 7.8 MHz IF. Adjust for maximum.

ADJUSTMENT

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
FET BIAS, RECEIVER	Any	VR1	Set mode switch to AM. Set RF gain control maximum clockwise. Set volume control counterclockwise. Short antenna input. Adjust for 1.9 V.
AGC High side thru a .01 uF capacitor to antenna jack, low side to ground. Set to 27.085 MHz, 1000 Hz @ 30% modulation output 50,000 uV.	11	VR5	Set mode switch to AM. Adjust volume control to obtain 0dB. Decrease generator to 50 uV. Adjust so that signal does not drop more than 5 dB.
SQUELCH RANGE High side thru a .01 uF capacitor to antenna jack, low side to ground. Set to 27.085 MHz, 1000 Hz @ 30% modulation output 1000 uV.	11	VR2, VR3	Set squelch control fully clockwise. Adjust VR2 for LSB, VR3 for AM so that squelch just breaks.

TRANSMITTER

ALIGNMENT

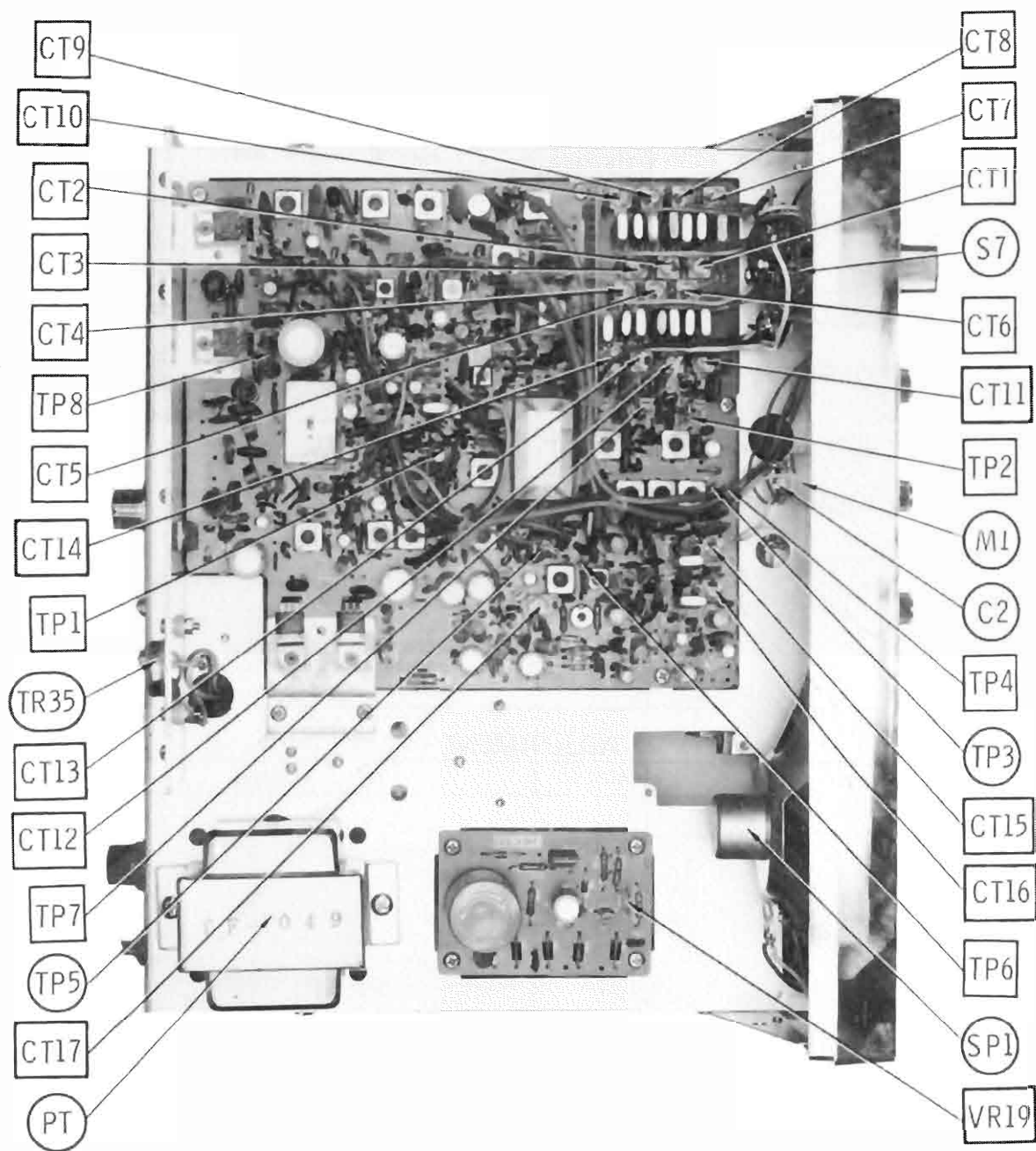
Connect an RF wattmeter or 50 ohm 25 watt dummy load to antenna connector.

INDICATOR	ADJUST	REMARKS
MIXER, BUFFER, DRIVER, FINAL RF Wattmeter or dummy load and RF VTVM.	T9, T10, T11, T12, T13, T21, T20, T19, T18, L12, L10	Connect wattmeter to antenna connector. Mode switch to AM. Channel selector to Channel 11. Key transmitter. Adjust for maximum.
FINAL INPUT POWER 0 - 1.5 A DC Milliammeter	L10	Insert meter between L11 and L14. Key transmitter. Adjust for no more than 5 watts DC Input.
TVI TRAP TV Set (Ch. 2)	L1	Channel selector to Channel 23. Key transmitter. Adjust for MINIMUM interference.
CARRIER BALANCE-SSB RF Wattmeter Monitor Scope	VR10, CT17	Connect wattmeter and scope to antenna jack. Mode switch to LSB. Key transmitter. Short microphone input. Adjust for MINIMUM carrier.
FINAL BIAS 0 - 50 mA DC Milliammeter	VR15	Insert meter between L11 and L14. Short microphone input. Key transmitter. Adjust for MINIMUM carrier.
FINAL OUTPUT POWER RF Wattmeter	L10	Connect two-tone generator to microphone input. Key transmitter. Adjust for no more than 15 watts P.E.P. NOTE: After SSB transmitter alignment is completed it may be necessary to readjust L10 for 5 watts DC input in AM mode.

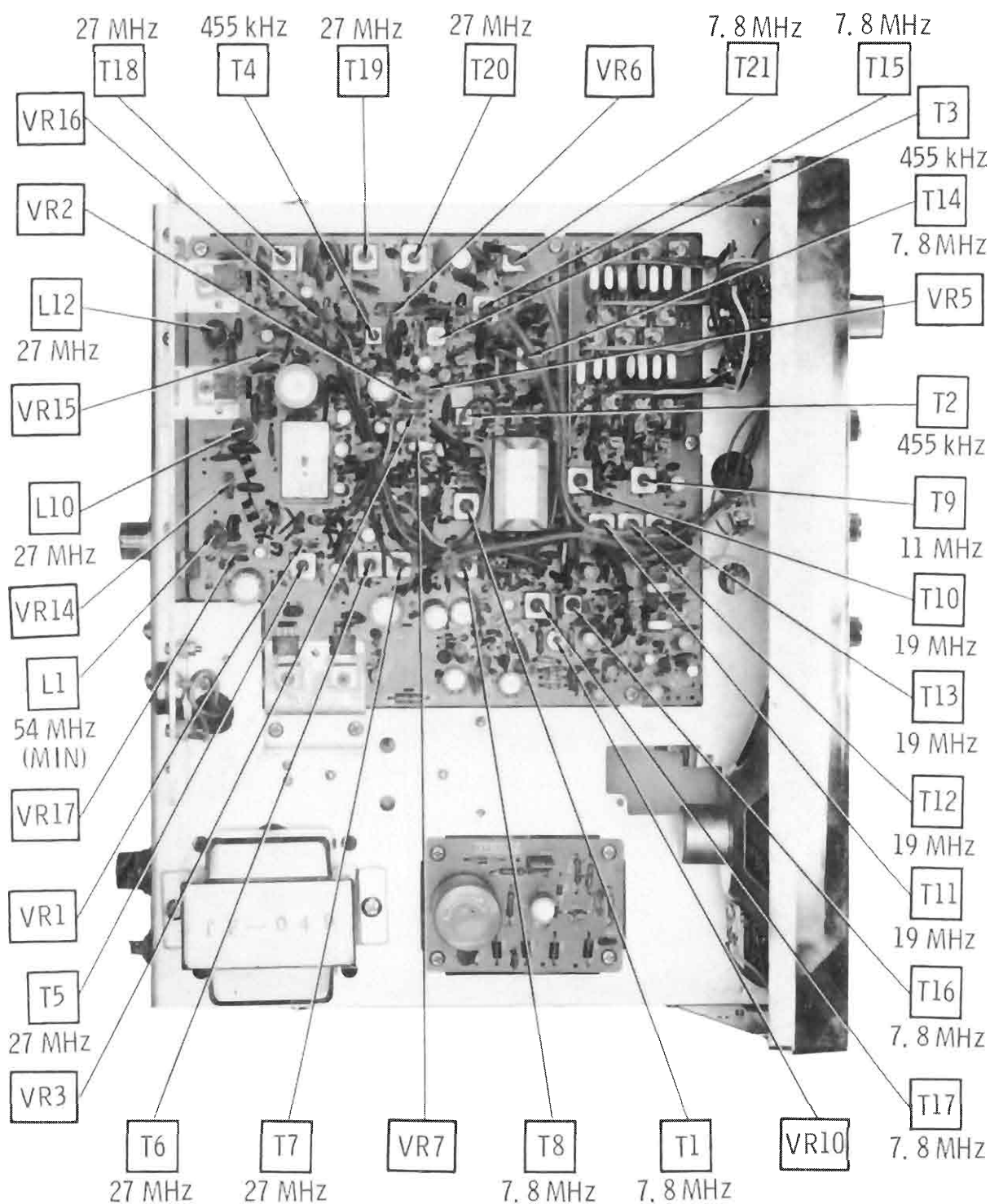
REGENCY MODEL CR-123B

ADJUSTMENT

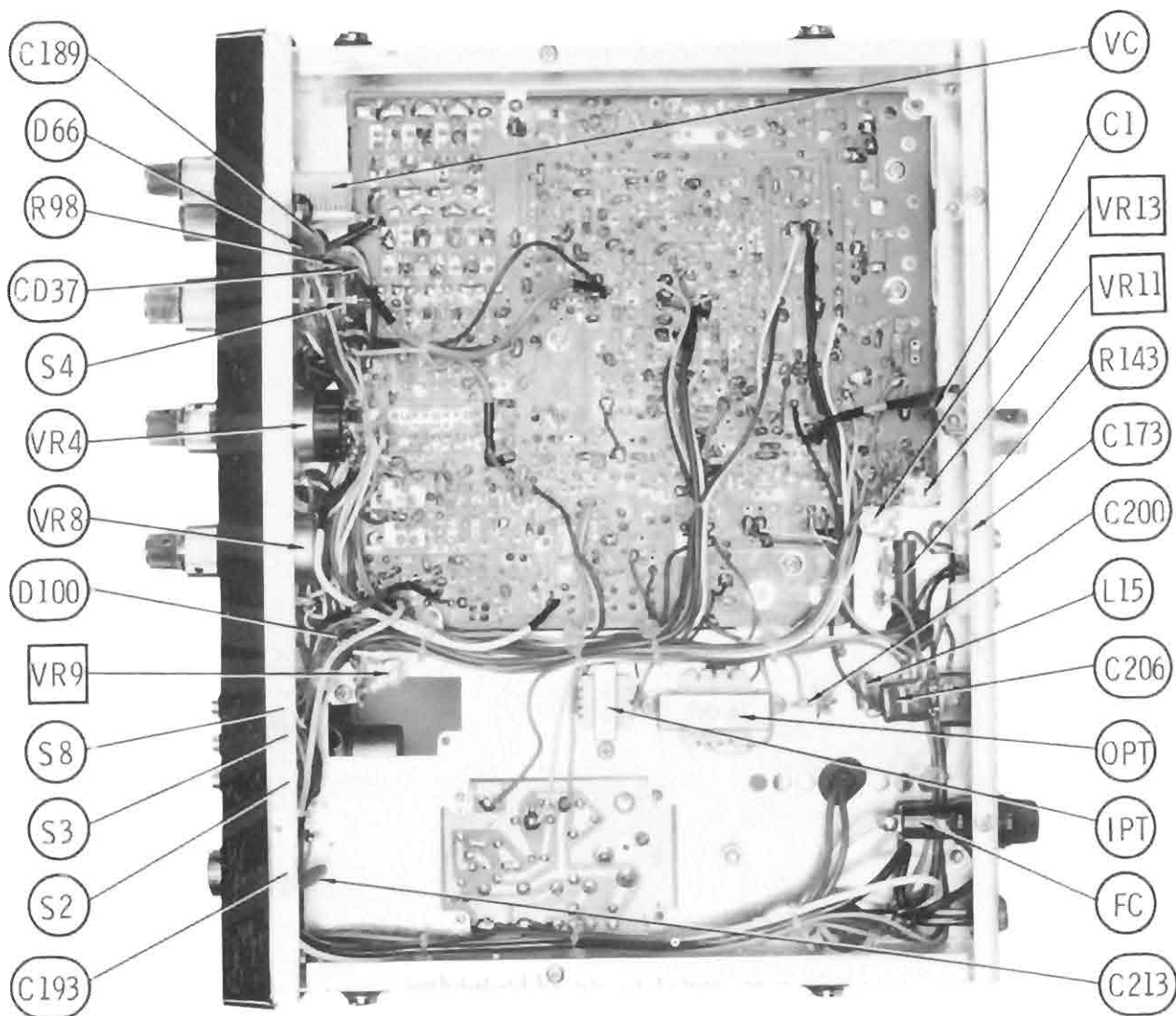
INDICATOR	ADJUST	REMARKS
VOLTAGE REGULATOR DC Voltmeter	VR19	Adjust for 14 VDC at L15. Key transmitter. Voltage should not vary.
AM-SSB MIKE GAIN RANGE Oscilloscope (Usable to 30 MHz)	VR12, T17	Set panel mike gain control fully clockwise. Connect audio generator to microphone input. Inject 1000 Hz signal. Key transmitter. Adjust for maximum (without distortion).
ALC RF Wattmeter Oscilloscope	VR16	Connect audio generator to microphone input. Inject a 1000 Hz signal. Key transmitter. Adjust for 15 watts P.E.P.
PANEL MODULATION METER Oscilloscope or Modulation Indicator	VR11	Connect audio generator to microphone input. Inject audio signal. Key transmitter. Adjust so that panel meter agrees with scope or indicator.
RF PANEL METER RF Wattmeter	VR14	Set mode switch to AM. Key transmitter. Adjust so that panel "RF" meter agrees with RF wattmeter.
AMC Modulator Meter	VR17	Connect audio generator to microphone input. Inject a 1000 Hz signal. Key transmitter. Adjust for 100% modulation maximum.



CHASSIS-TOP

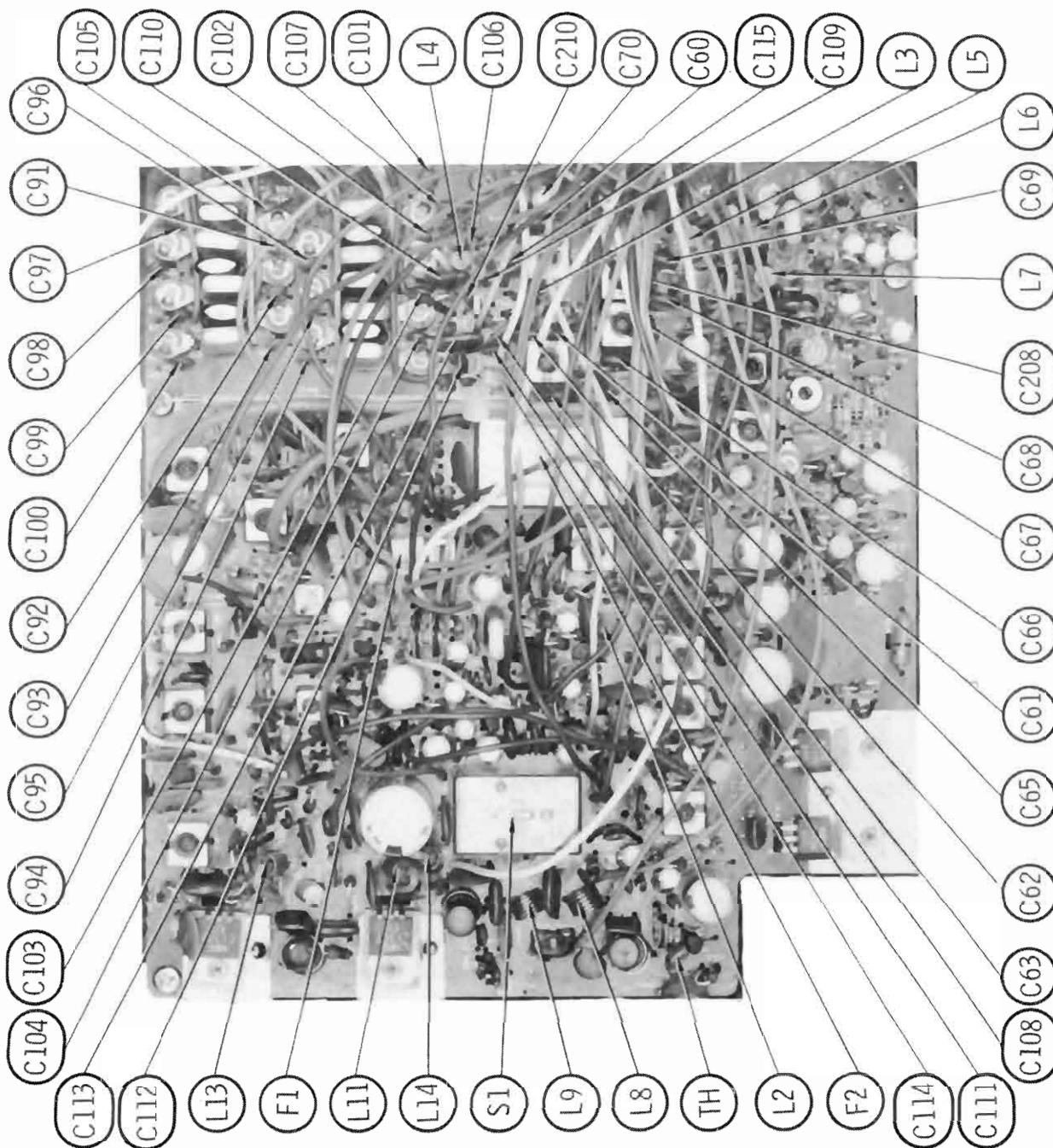


CHASSIS-TOP

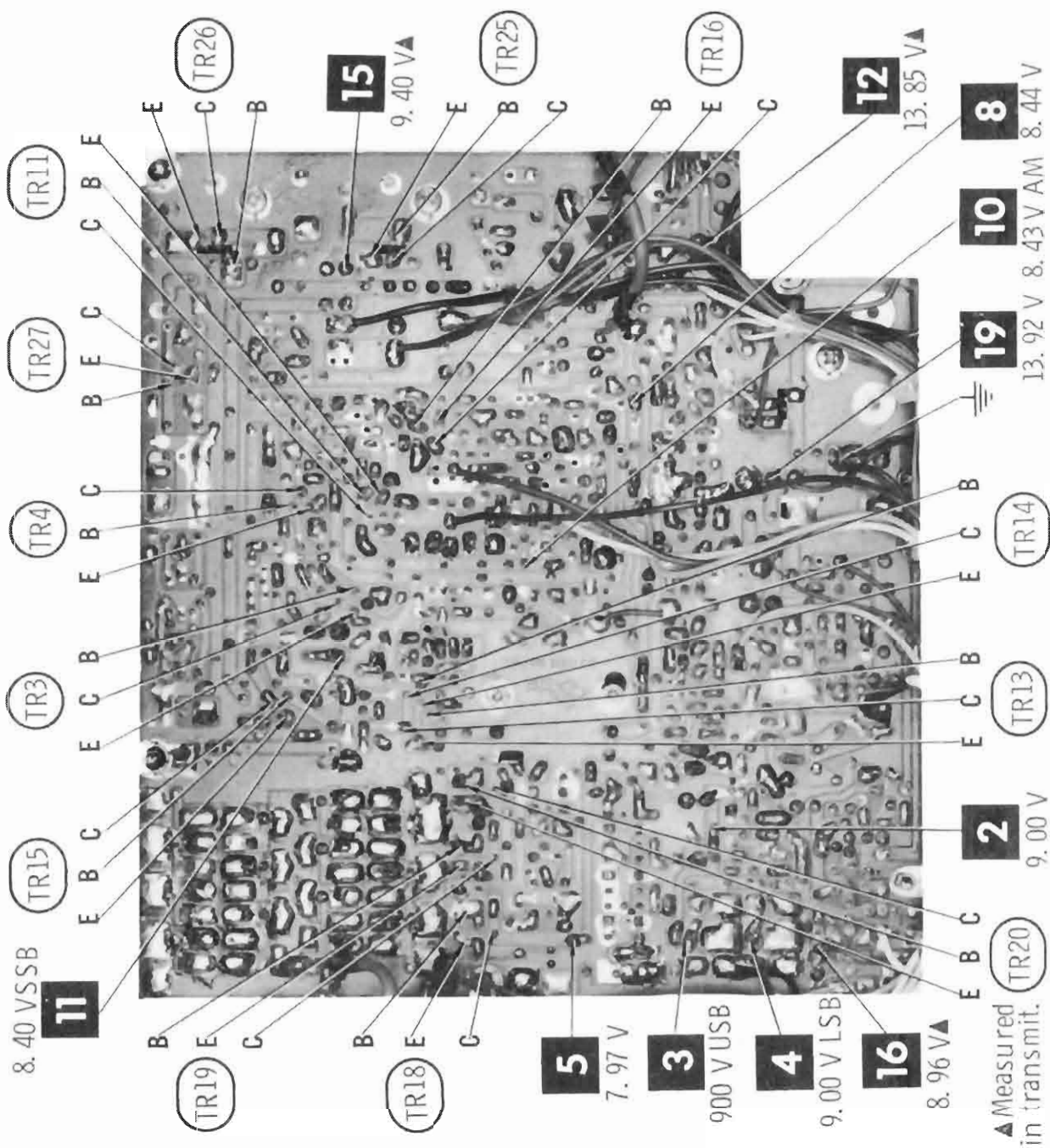


CHASSIS -BOTTOM

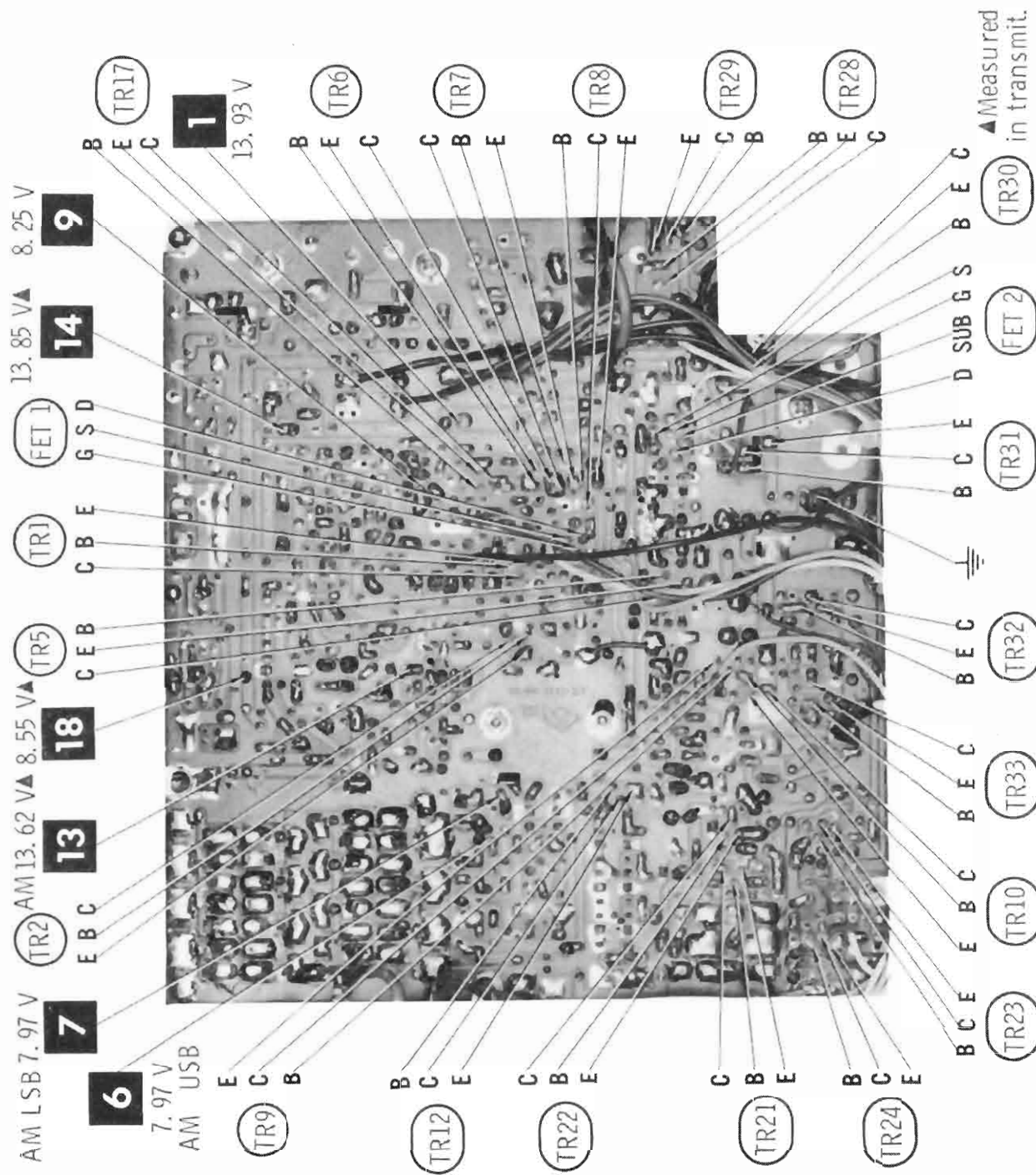
MAIN BOARD



MAIN BOARD

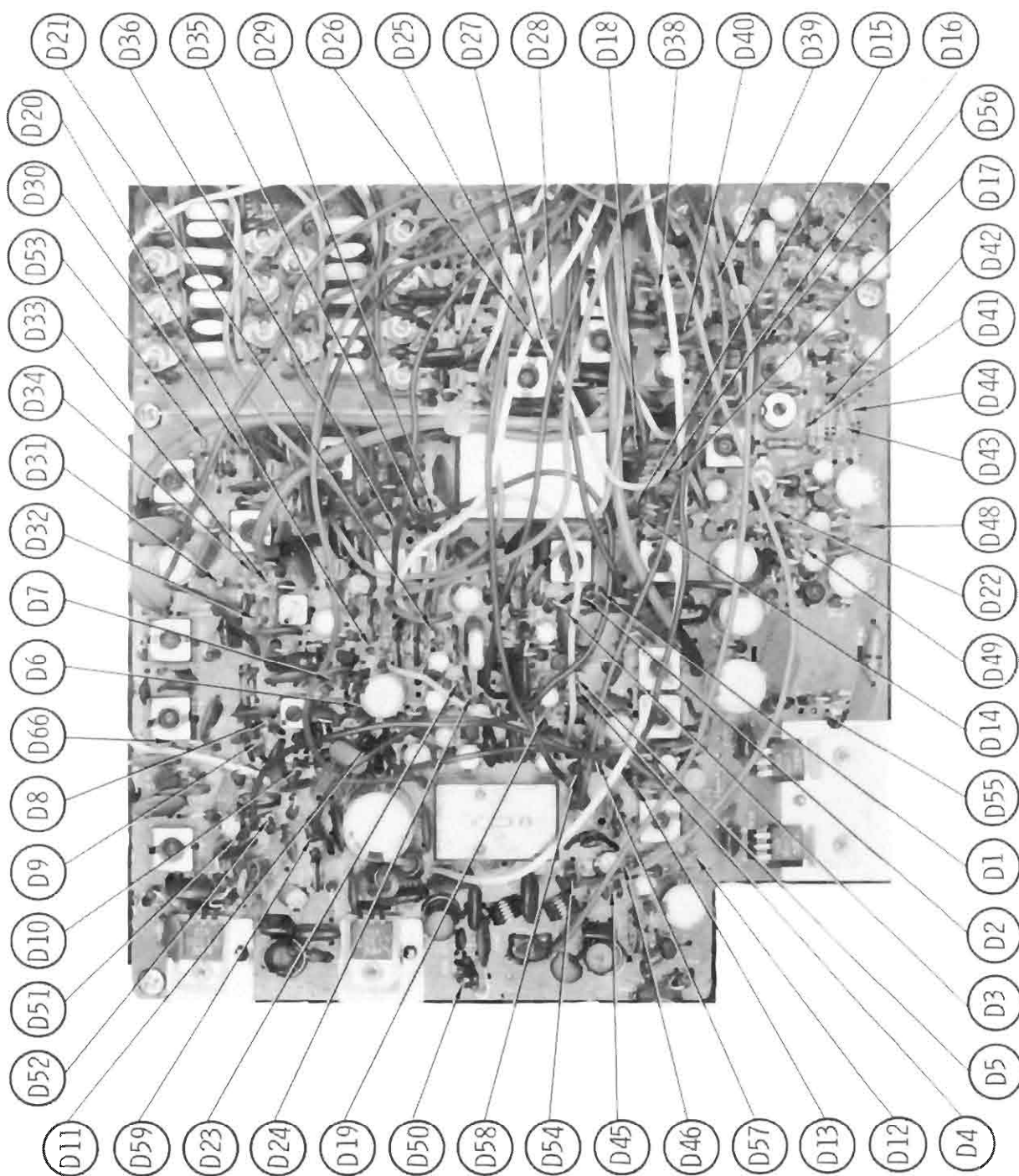


A Howard W. Sams CIRCUITRACE® Photo

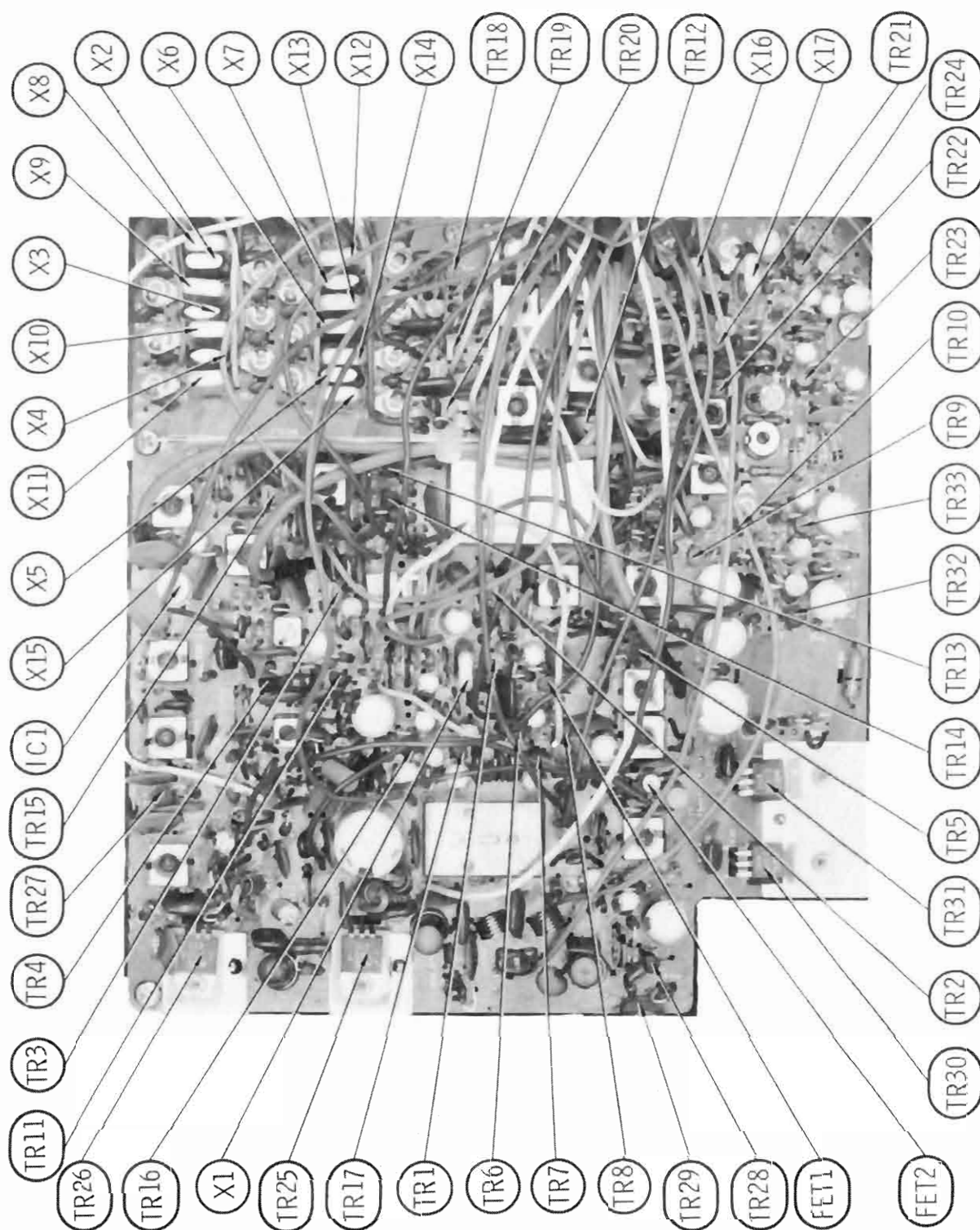


MAIN BOARD

A Howard W. Sams **CIRCUITRACE** Photo **REGENCY MODEL CR-123B**

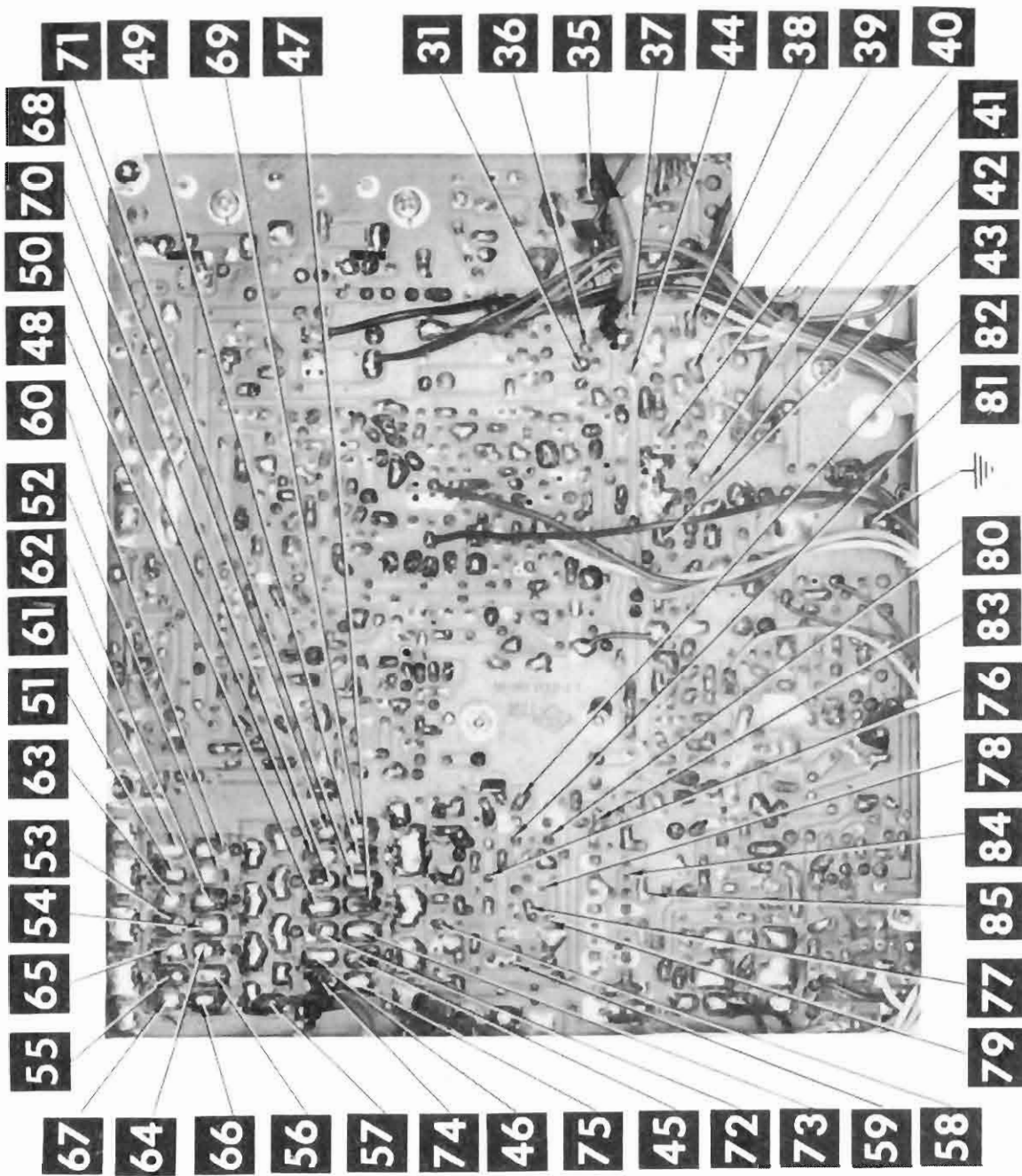


MAIN BOARD



MAIN BOARD

MAIN BOARD



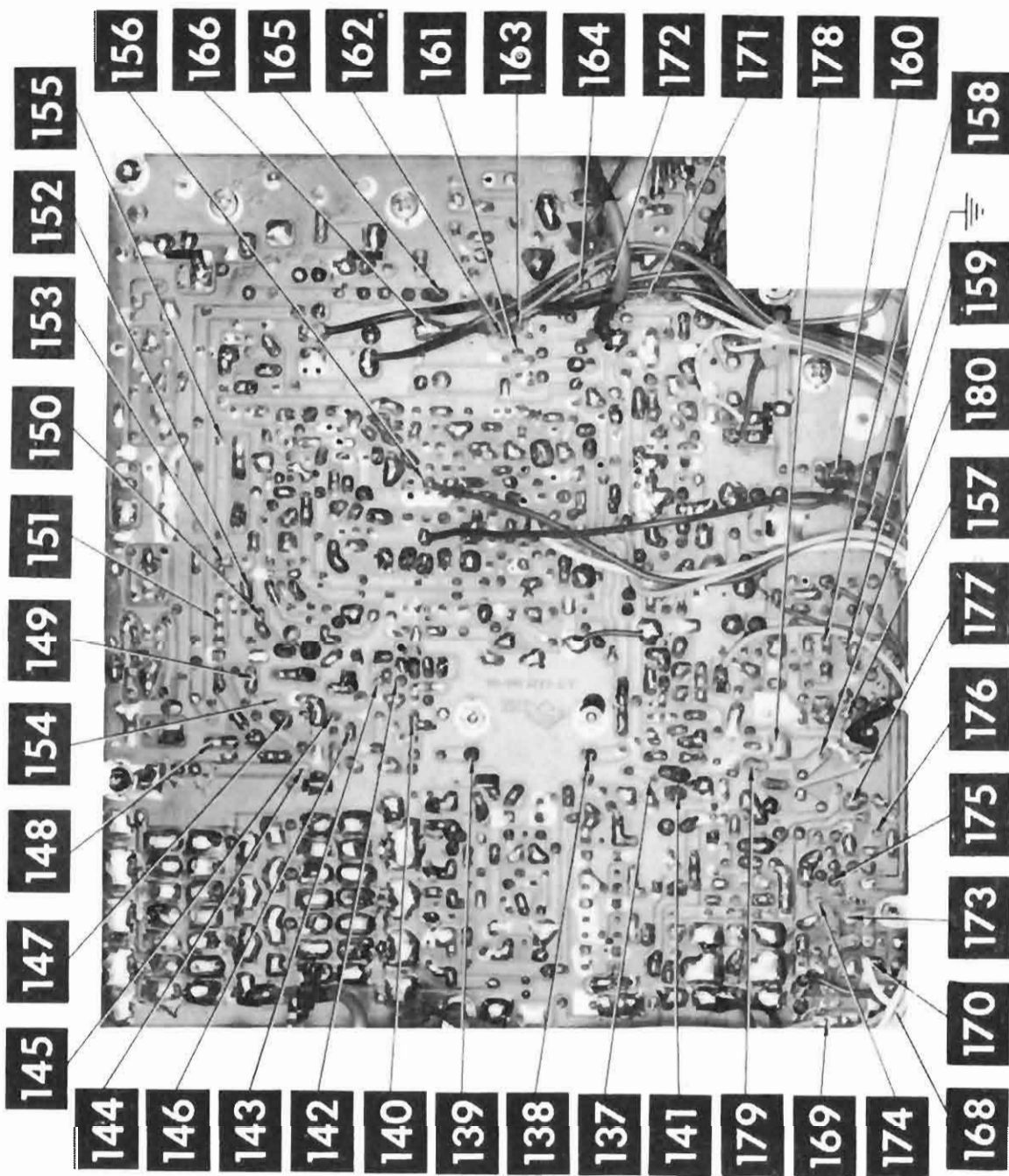
A Howard W. Sams CIRCUITRACE® Photo



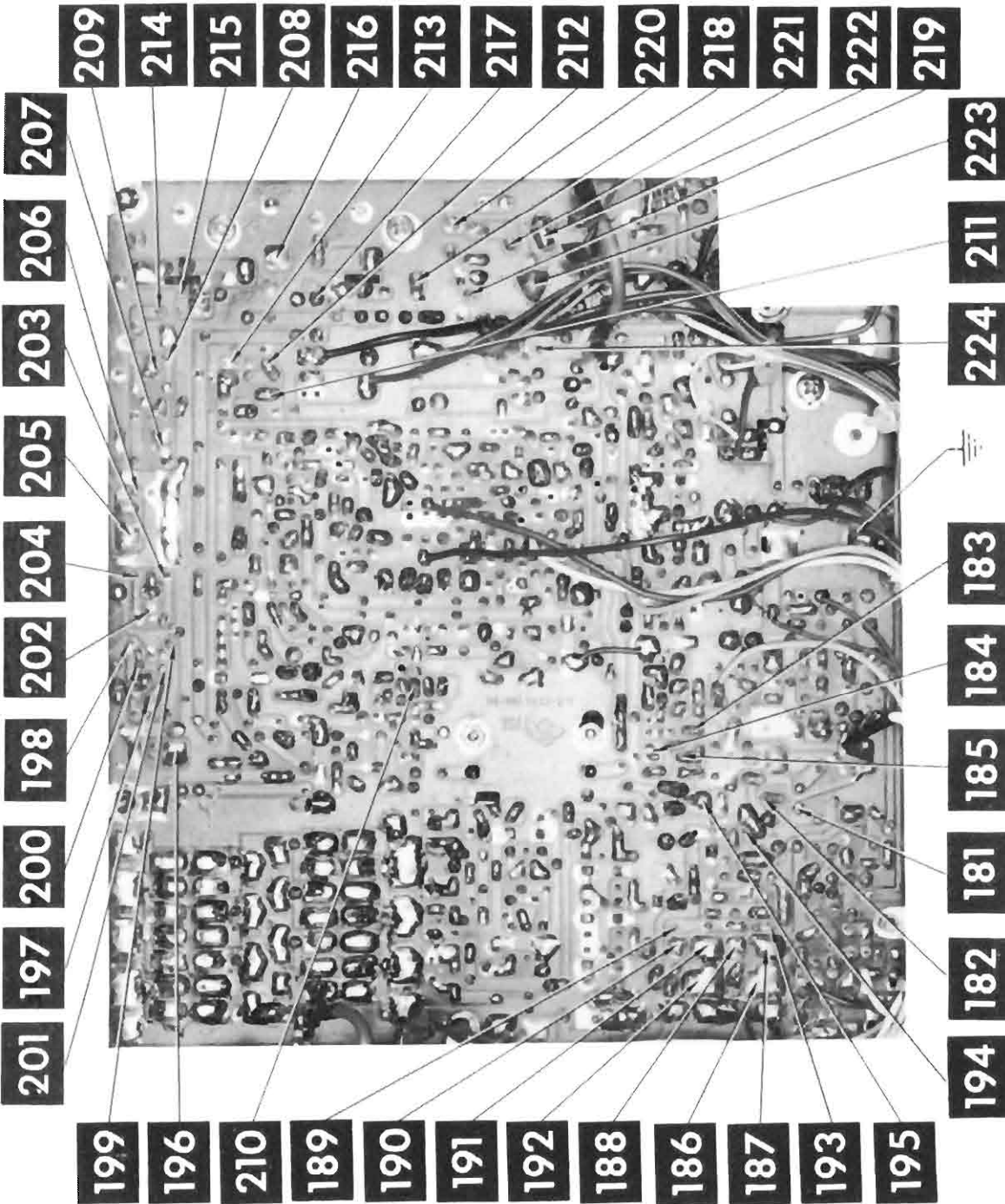
MAIN BOARD

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MAIN BOARD



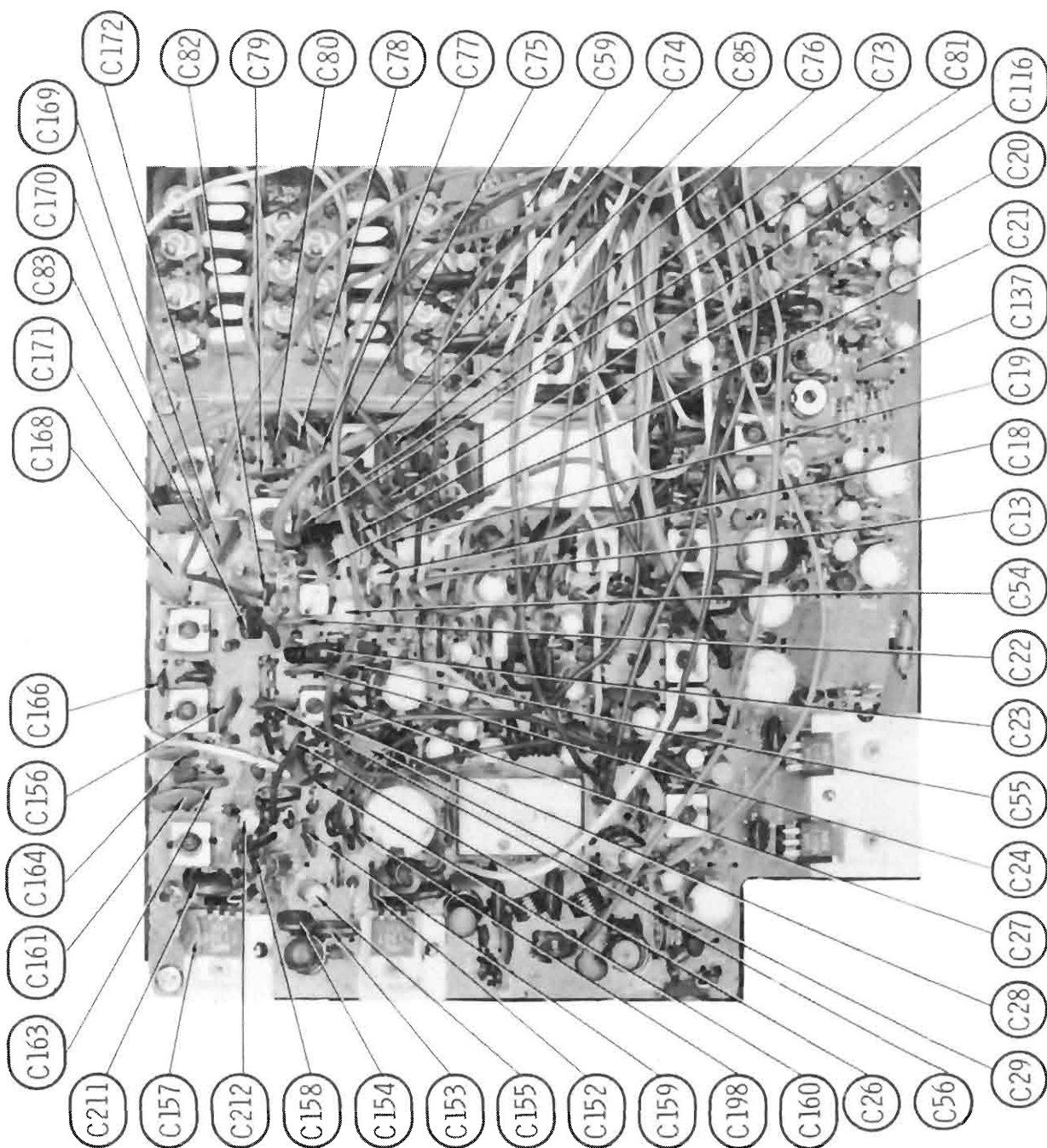
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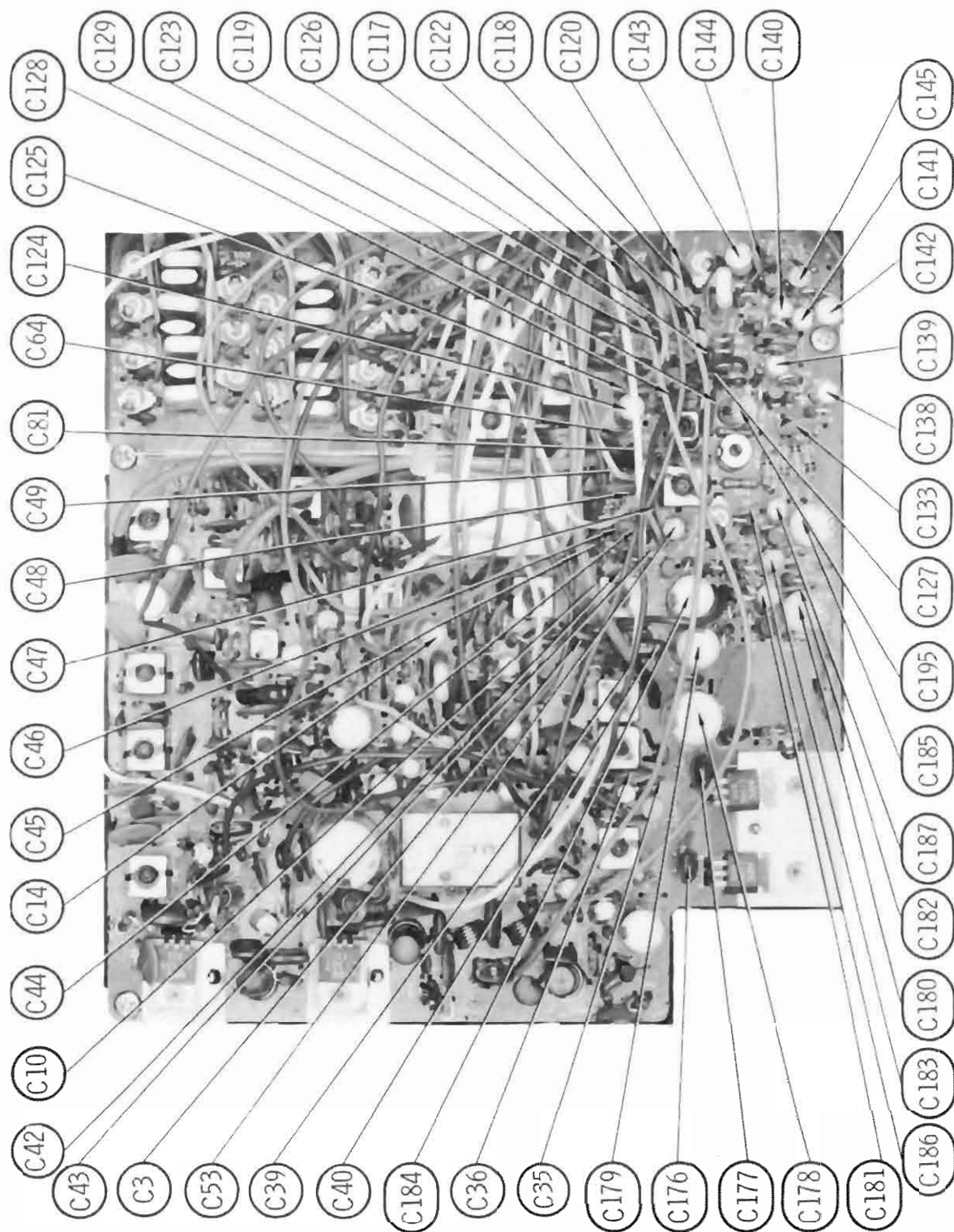
MAIN BOARD

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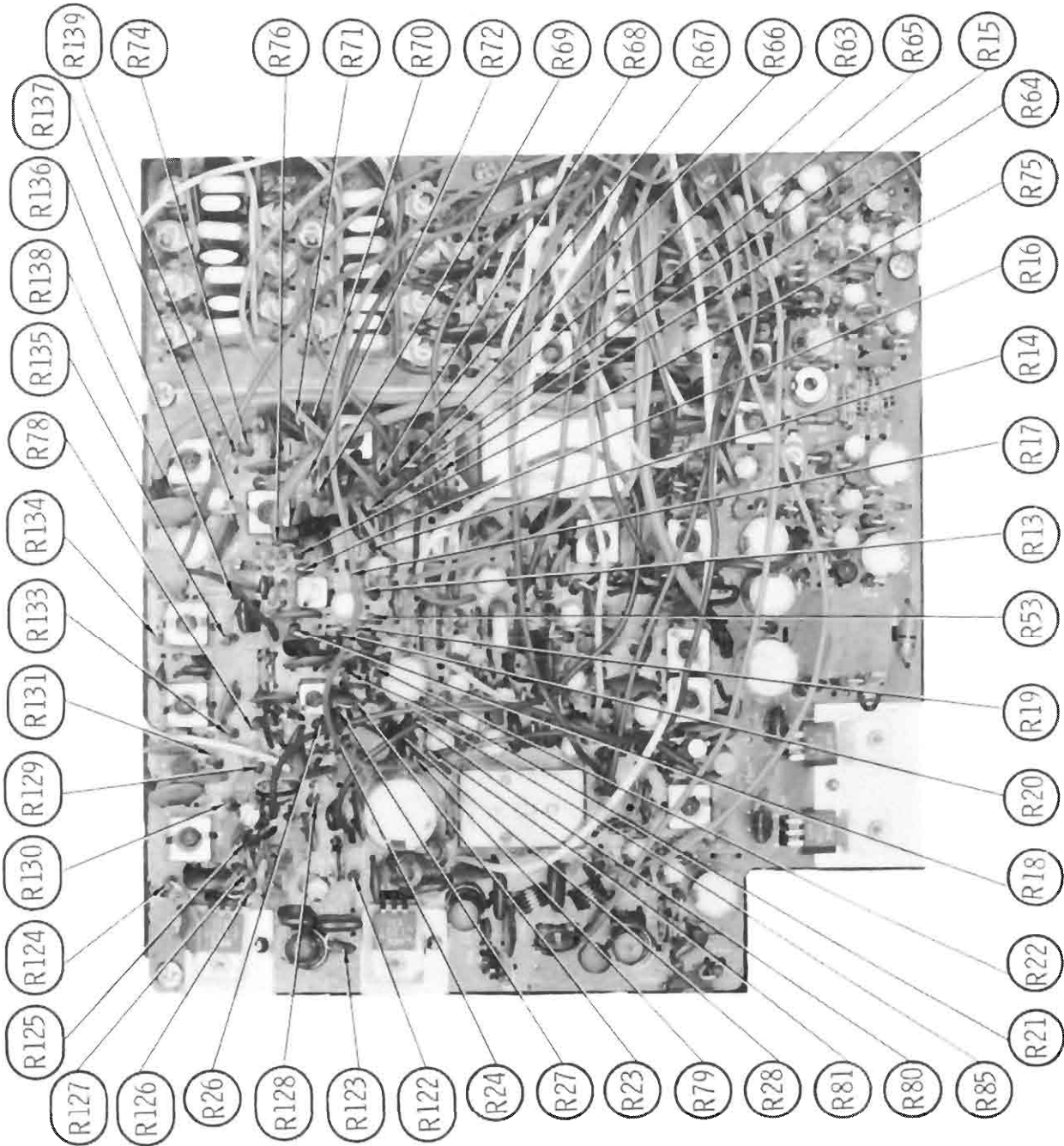
REGENCY MODEL CR-123B



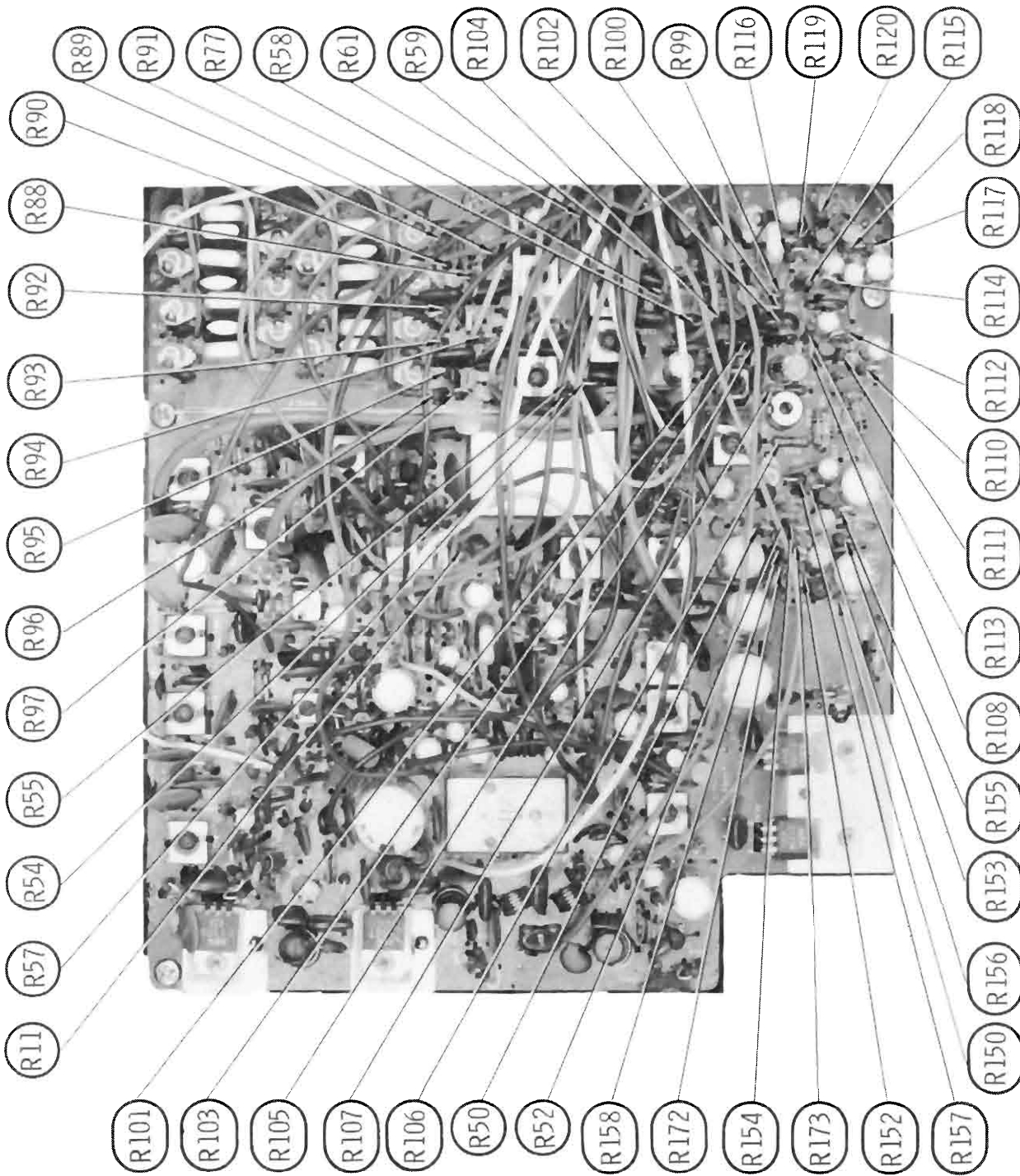
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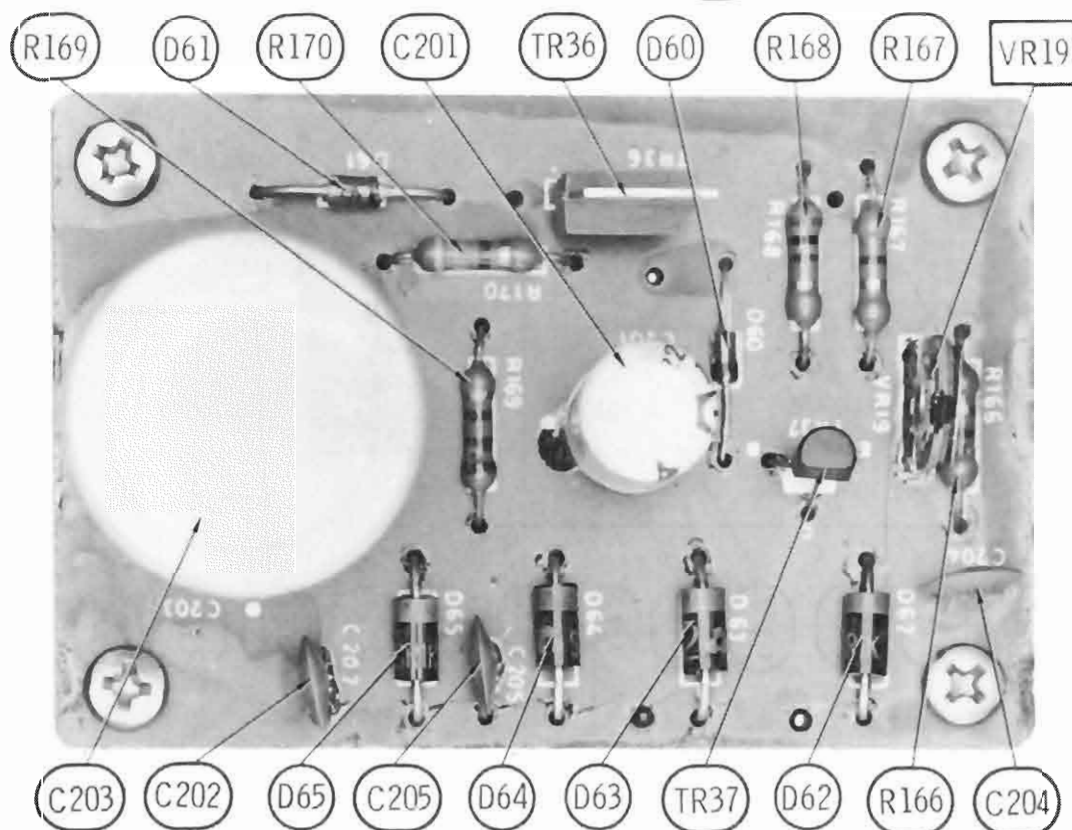
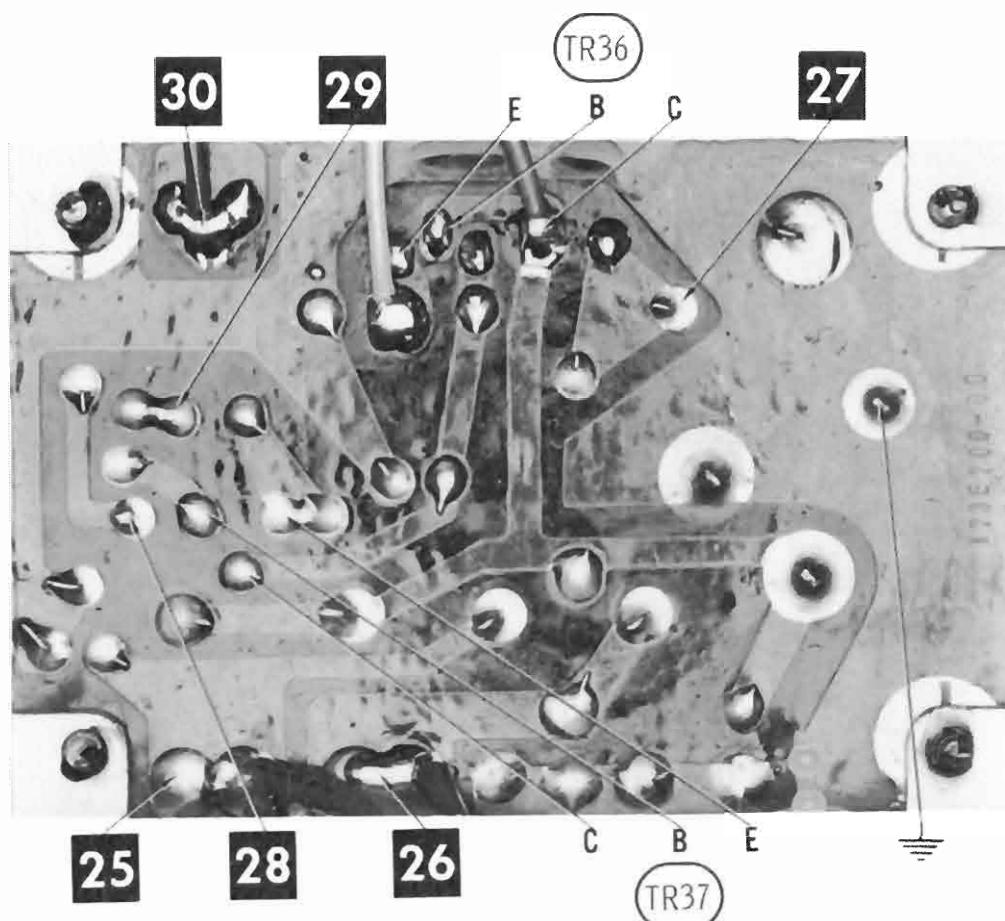
MAIN BOARD



MAIN BOARD



MAIN BOARD



AC POWER SUPPLY BOARD

PARTS LIST AND DESCRIPTION

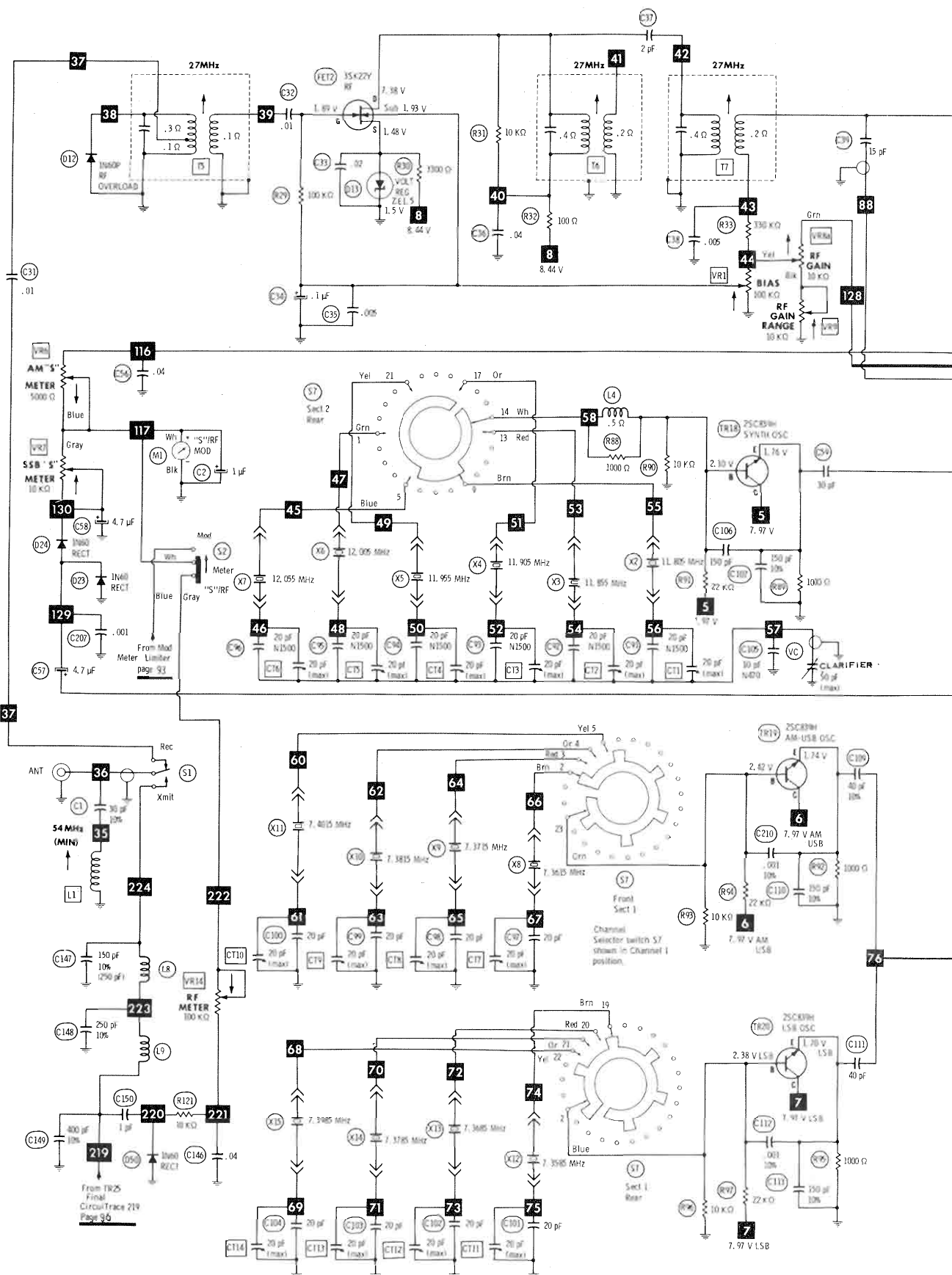
(When ordering parts, state Model, Part Number, and Description.)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1N60P	123-013	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D2	1N60P	123-013	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1N4448	123-016	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D4	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D5	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D6	1N60	123-015	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	1N60	123-015	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D8	1N60	123-015	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1N60	123-015	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D10	1N60	123-015	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D11	1S4448	123-016	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1N60P	123-013	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D13	ZE1.5	123-014								
D14	1S1007	123-018	GE-511	D172	PTC216	HEPR3012	RE 55	SK3130	RT-203	ECG506
D15	1S1007	123-018	GE-511	D172	PTC216	HEPR3012	RE 55	SK3130	RT-203	ECG506
D16	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D17	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D18	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D19	1N60P	123-013	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D20	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D21	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D22	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D23	1N60	123-015	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D24	1N60	123-015	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D25	1N60P	123-013	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
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D27	1N60P	123-013	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D28	1N60P	123-013	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
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D52	1N60	123-015	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D53	1S2473	123-017	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D54	SR1K-2	123-021	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D55	CD37	123B-003	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D56	CZ092	123-020	GEZD-9.1	Z1210	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D57	CZ092	123-020	GEZD-9.1	Z1210	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D58	ME081	123B-004	GEZD-8.2	Z1208	ZB8.2	HEPZ0411	RE 112	SK3136	RT-257	ECG5072
D59	SR1K-2	123-021	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D60	WZ061	123B-005	GEZD-6.8	Z1206	ZB6.8	HEPZ0409	RE 110	SK3058	RT-238	ECG5071
D61	BZ162	123B-006	GEZD-15	Z1214	ZB16	HEPZ0419	RE 122	SK3063	RT-246	ECG5075
D62	SR1K-2	123-021	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
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D65	SR1K-2	123-021	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D66	KB262	123-025	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D100	2SK30Y	123-003	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
FET1	3SK22Y	123-002	GE-FET-1	FE-100	PTC151	HEPF0010	RE 46	SK3112	RT-176	ECG133
FET2	TA7045M	123-001	GE-FET-3		PTC161	HEPF2005		SK3116	RT-180	ECG220
IC1	2SC839H	123-004	GE-20	TR-24	PTC744				TVMC-48	ECG744
TR1	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR2	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR3	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR4	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR5	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR6	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR7	2SA733Q	123-006	GE-65	TR-31	PTC131	HEPS0022	RE 26	SK3138	RT-120	ECG159
TR8	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR9	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR10	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR11	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR12	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR13	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR14	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108

(CONTINUED ON PAGE 99)

REGENCY MODEL CR-123B

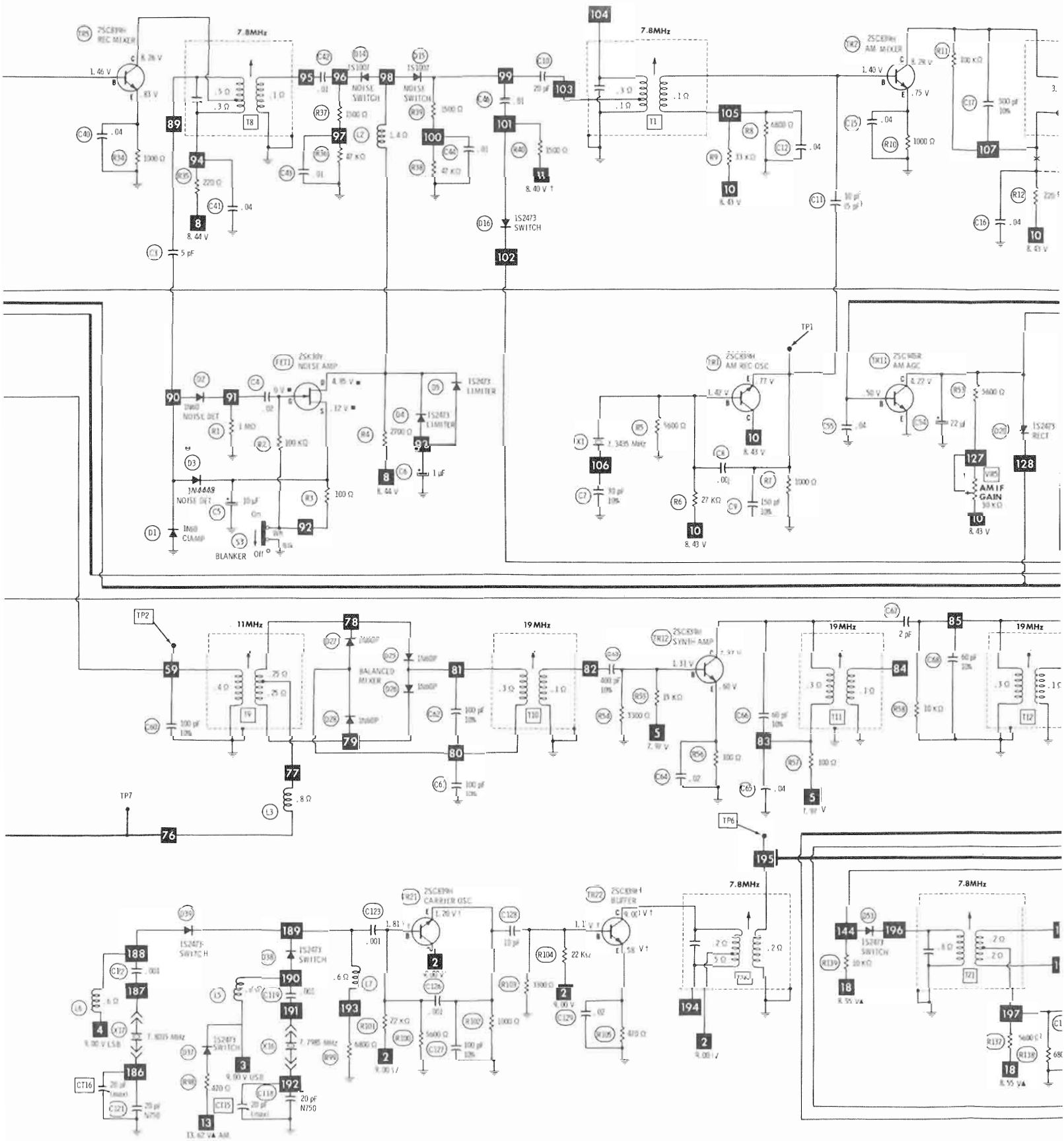


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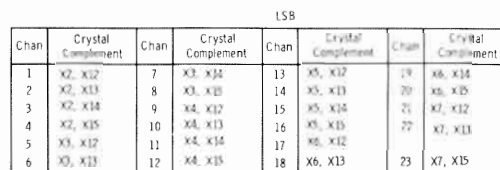
WITH **CIRCUITRACE**

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SEE NOTES ON PAGE 96

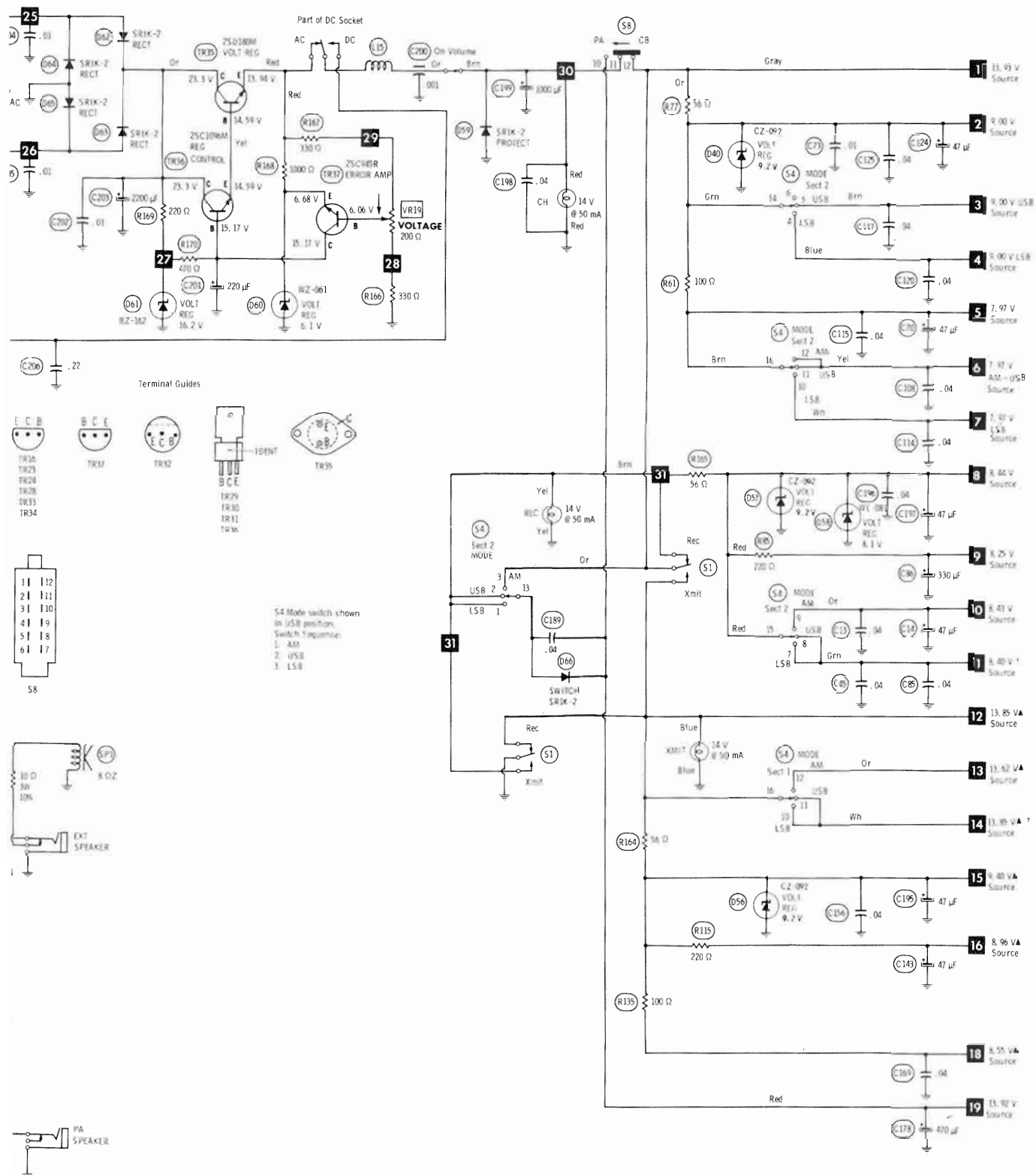






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PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (Select replacement transistor for best results)(cont)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
TR15	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR16	2SC945QL	123-007	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR17	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR18	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR19	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR20	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR21	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR22	2SC839H	123-004	GE-20	TR-24	PTC121	HEPS0015	RE 10	SK3018	RT-107A	ECG108
TR23	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR24	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR25	2SC1307	123-008(1)	GE-66		PTC186					
TR26	2SC1306	123-009(2)	GE-66	TR-55	PTC110					ECG235
TR27	2SC710C	123-010	GE-20	TR-21	PTC121	HEPS0016	RE 9	SK3018	RT-105	ECG107
TR28	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR29	2SC1096M	123-011A(3)	GE-28	TR-55	PTC110	HEPS0003	RE 42	SK3054	RT-197	ECG186
TR30	2SC1096M	123-011A(3)	GE-28	TR-55	PTC110	HEPS0003	RE 42	SK3054	RT-197	ECG186
TR31	2SC1096M	123-011A(3)	GE-28	TR-55	PTC110	HEPS0003	RE 42	SK3054	RT-197	ECG186
TR32	2SC735Y	123-012	GE-20	TR-21	PTC136	HEPS0014	RE 13	SK3047	RT-102	ECG123A
TR33	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199
TR35	2SD180M	123B-001(4)	GE-35	TR-61	PTC116	HEPS7002	RE 19	SK3027	RT-131	ECG130
TR36	2SC1096	123B-002(3)	GE-28	TR-55	PTC110	HEPS0003	RE 42	SK3054	RT-197	ECG186
TR37	2SC945R	123-005	GE-20	TR-21	PTC136	HEPS0015		SK3124	RT-107A	ECG199

- (1) Rating 25 watts @ 8 amp.
 (2) Rating 12 watts @ 3 amp.
 (3) Rating 10 watts @ 2 amp.
 (4) Rating 50 watts @ 5 amp.

REGENCY MODEL CR-123B

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C2	1 50 V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C5	10 16 V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C6	1 50 V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C14	47 10 V		RME-D-D-050	EP15-50	PC50-10	MTV50CB15	EV-1226
C18	.47 50 V				WB1-500	TDC474M050EL	EV-1310
C25	10 16 V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C29	.1 25 V					TDC104M050EL	SD50-R109
C34	.1 25 V					TDC104M050EL	SD50-R109
C52	2.2 25 V		RME-A-G-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C53	10 16 V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C54	22 16 V		RME-D-E-025	EP15-25	PC25-25	MTV25CB35	EV-1325
C57	4.7 25 V		RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C58	4.7 25 V		RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C70	47 10 V		RME-D-D-050	EP15-50	PC50-10	MTV50CB15	EV-1226
C86	330 10 V		ME-8-E-250	EP15-250	WBR300-3E	MTA300G50	EV-1245
C87	33 6.3 V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C88	1 50 V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C89	1 50 V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C90	33 6.3 V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C124	47 10 V		RME-D-D-050	EP15-50	PC50-10	MTV50CB15	EV-1226
C134	4.7 25 V		RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C136	10 16 V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C137	1 10 V					TDC105M035EL	SD35-19
C138	10 16 V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C139	4.7 25 V		RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C140	4.7 25 V		RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C141	4.7 25 V		RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C142	33 6.3 V		ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C143	47 10 V		RME-D-D-050	EP15-50	PC50-10	MTV50CB15	EV-1226
C145	1 50 V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C155	2.2 25 V		RME-A-G-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C172	4.7 25 V		RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C174	220 16 V		RME-J-E-250	EP15-250	PC250-25	MTV250DE15	EV-1245
C178	470 16 V		RME-L-E-500	EP15-500	PC500-16	MTV500DN15	EV-1250
C179	220 16 V		RME-J-E-250	EP15-250	PC250-25	MTV250DE15	EV-1245
C180	220 6.3 V		ME-4-A-250	EA6-250	WBR250-16	MTA250F15	TVA-1091.5
C181	.47 25V					TDC474M050EL	SD50-R479
C183	1 50 V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C184	220 16 V		RME-J-E-250	EP15-250	PC250-25	MTV250DE15	EV-1245
C185	220 6.3 V		ME-4-A-250	EA6-250	WBR250-16	MTA250F15	TVA-1091.5
C187	1 50 V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C195	47 10 V		RME-D-D-050	EP15-50	PC50-10	MTV50CB15	EV-1226
C197	47 10 V		RME-D-D-050	EP15-50	PC50-10	MTV50CB15	EV-1226
C199	1000 25 V		RME-P-G-1000	EP30-1000	WBR1000-2E	MTA1000G25	EV-1360
C201	220 16 V		RME-J-E-250	EP15-250	PC250-25	MTV250DE15	EV-1245
C203	2200 25 V		ME-G2000		WBR2000-2E	TC2520A	TVA-1213.5
C212	1 50 V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	30	10%	DM-15-300J	CPR-30J	CD15CD0500J3	SX430	
C3	5		DM-15-050D		MGP02	SX550	
C4	.02		CCD-203	CK-203		TA120	TG-S20
C7	30	10%	DM-15-300J	CPR-30J		SX430	
C8	.001		6DP-1-102	CPR-1000J	DPMS6D1	EWFA1A210	225P10291WD3
C9	150	10%	DM-15-151J	CPR-150J	CD15FD151J03	SX315	424MC1500J501
C10	20		DM-15-200J	CPR-20J		SX420	
C11	10		DM-15-100J		CD15CD100J03	SX410	
C12	.04			DD-403		GP140	
C13	.04			DD-403		GP140	
C15	.04		1DP-1-403			PVC114	
C16	.04			DD-403		GP140	
C17	500	10%	DM-19-501J				
C19	.04			DD-403		GP140	
C20	.04		1DP-1-403			PVC114	
C21	.04			DD-403		GP140	
C22	.04			DD-403		GP140	
C23	.04		1DP-1-403			PVC114	
C24	.04			DD-403		GP140	
C26	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C27	15		DM10-150J	CD6CD150J03		SX420	
C28	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C30	.002		1MDP-1-202				
C31	.01		1DP-1-103	CPR-1000J	DPMS6S1	EWFA1A110	225P10391WD3
C32	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C33	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C35	.005		CCD-502	CK-502	MGP005	TA250	TG-D50
C36	.04			DD-403		GP140	
C37	2		DM-10-020D				
C38	.005		CCD-502	CK-502	MGP005	TA250	TG-D50
C39	15		DM-15-150J			SX415	
C40	.04		1DP-1-403			PVC114	
C41	.04			DD-403		GP140	
C42	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C43	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C44	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C45	.04			DD-403		GP140	
C46	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C47	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C48	.1			CK-104		TA010	TG-P10
C49	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C50	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C51	.04	10%	1DP-1-403			PVC114	
C55	.04			DD-403		GP140	
C56	.04			DD-403		GP140	
C59	30		DM-15-300J	CPR-30J		SX430	
C60	100	10%	DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C61	100	10%	DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C62	100	10%	DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C63	400	10%					MS-34
C64	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C65	.04			DD-403		GP140	
C66	60	10%					MS-46
C67	2		DM-10-020D				
C68	60	10%					MS-46
C69	60	10%					MS-46
C71	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C72	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C73	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C74	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C75	2		DM-10-020D				
C76	.04			DD-403		GP140	
C77	.04			DD-403		GP140	
C78	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C79	.04			DD-403		GP140	
C80	.1			CK-104		TA010	TG-P10
C81	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C82	.01	10%	1DP-1-103	CPR-1000J	DPMS6S1	EWFA1A110	225P10391WD3
C83	.04	10%	1DP-1-403			PVC114	
C84	.01		1DP-1-103	CPR-1000J	DPMS6S1	EWFA1A110	225P10391WD3
C85	.04			DD-403		GP140	
C91	20	N1500	*				10TCW-Q20
C92	20	N1500	*				10TCW-Q20
C93	20	N1500	*				10TCW-Q20
C94	20	N1500	*				10TCW-Q20
C95	20	N1500	*				10TCW-Q20
C96	20	N1500	*				10TCW-Q20
C97	20		DM-15-200J	CPR-20J		SX420	
C98	20		DM-15-200J	CPR-20J		SX420	
C99	20		DM-15-200J	CPR-20J		SX420	
C100	20		DM-15-200J	CPR-20J		SX420	
C101	20		DM-15-200J	CPR-20J		SX420	
C102	20		DM-15-200J	CPR-20J		SX420	
C103	20		DM-15-200J	CPR-20J		SX420	
C104	20		DM-15-200J	CPR-20J		SX420	
C105	10	N470	*			*	10TCT-Q20
C106	150		CCD-151	DD-151	GP150	GP315	10TS-T15
C107	150	10%	DM-15-151J	CPR-150J	CD15FD151J03	SX315	424MC1500J501
C108	.04			DD-403		GP140	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING		MFR. PART No.	REPLACEMENT DATA				
				ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C109	40	10%		DM-15-390J	CPR-39J	CD15ED390J03	SX439	MS-44
C110	150	10%		DM-15-151J	CPR-150J	CD15FD151J03	SX315	424MC1500J501
C111	40	10%		DM-15-390J	CPR-39J	CD15ED390J03	SX439	MS-44
C112	.001	10%		6DP-1-102	CPR-1000J	DPMS6D1	EWFA210	225P10291WD3
C113	150	10%		DM-15-151J	CPR-150J	CD15FD151J03	SX315	424MC1500J501
C114	.04				DD-403		GP140	
C115	.04				DD-403		GP140	
C116	.04				DD-403		GP140	
C117	.04				DD-403		GP140	
C118	20	N750					CN7420	10TCU-Q20
C119	.001			6DP-1-102	CPR-1000J	DPMS6D1	EWFA210	225P10291WD3
C120	.04				DD-403		GP140	
C121	20	N750					CN7420	10TCU-Q20
C122	.001			6DP-1-102	CPR-1000J	DPMS6D1	EWFA210	225P10291WD3
C123	.001			6DP-1-102	CPR-1000J	DPMS6D1	EWFA210	225P10291WD3
C125	.04				DD-403		GP140	
C126	.001			6DP-1-102	CPR-1000J	DPMS6D1	EWFA210	225P10291WD3
C127	.001	10%		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C128	10			DM-15-100J		CD15CD100J03	SX410	
C129	.02			CCD-203	CK-203	MGP02	TA120	TG-S20
C130	10			DM-15-100J		CD15CD100J03	SX410	
C131	10			DM-15-100J		CD15CD100J03	SX410	
C132	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C133	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C135	.001			CCD-102	DD-102	GP1000	SM210	2SS-D10
C144	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C146	.04				DD-403		GP140	
C147	150	10%		DM10-151J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C148	250	10%		DM-19-251J				
C149	400	10%						
C150	1			DM-10-010D				MS-34
C151	650	10%						
C152	.04				DD-403		GP140	
C153	250	10%		DM-19-251J				
C154	60	10%						
C156	.04				DD-403		GP140	MS-46
C157	.1				CK-104		TA010	TG-P10
C158	2			DM-10-020D				
C159	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C160	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C161	.02			CCD-203	CK-203	MGP02	TA120	TG-S20
C162	.04				DD-403		GP140	
C163	.02			CCD-203	CK-203	MGP02	TA120	TG-S20
C164	.02			CCD-203	CK-203	MGP02	TA120	TG-S20
C166	2			DM-10-020E				
C168	.02			CCD-203	CK-203	MGP02	TA120	TG-S20
C169	.04				DD-403		GP140	
C170	10			DM-15-100J		CD15CD100J03	SX410	
C171	.02			CCD-203	CK-203	MGP02	TA120	TG-S20
C176	.04			1DP-1-403			PVC114	
C177	.04			1DP-1-403			PVC114	
C182	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C186	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C189	.04			CCD-403			GP140	5GA-S40
C193	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C194	.04				DD-403		GP140	
C196	.04				DD-403		GP140	
C198	.04				DD-403		GP140	
C200	.001							
C202	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C204	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C205	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C206	.22			4DP-5-224		DPMS4P22	EWFA222	4PS-P22
C207	.001			CCD-102	DD-102	GP1000	SM210	2SS-D10
C208	2			DM-10-020D				
C209	.01			CCD-103	CK-103	MGP01	TA110	TG-S10
C210	.001	10%		6DP-1-102	CPR-1000J	DPMS6D1	EWFA210	225P10291WD3
C211	400	10%		DM-15-501J		CD15FD501J03		
C213	.04				DD-403		GP140	
CT1	20 (Max)		123B-017					
CT2	20 (Max)		123B-017					
CT3	20 (Max)		123B-017					
CT4	20 (Max)		123B-017					
CT5	20 (Max)		123B-017					
CT6	20 (Max)		123B-017					
CT7	20 (Max)		123B-017					
CT8	20 (Max)		123B-017					
CT9	20 (Max)		123B-017					
CT10	20 (Max)		123B-017					
CT11	20 (Max)		123B-017					
CT12	20 (Max)		123B-017					
CT13	20 (Max)		123B-017					
CT14	20 (Max)		123B-017					
CT15	20 (Max)		123B-C17					
CT16	20 (Max)		123B-C17					
CT17	20 (Max)		123B-C17					
VC	50 (Max)							

REGENCY MODEL CR-123B

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

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	Bias	100K	123B-014	TSV-100K or T-100K	C-104	MTC15L1	X201R104B
VR2	SSB Squelch	500K	123B-007	TSV-500K (2) or T-500K (2)	C-504 (2)	MTC55L1 (2)	X201R504B (2)
VR3	AM Squelch	200K	123B-008	TSV-250K (2) or T-250K (2)		MTC254L1 (2)	X201R254B (2)
VR4a b	Squelch Volume/Switch	100K 10K					
VR5	AM IF Gain	30K	123B-010	TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR6	AM "S" Meter	5000	123B-012	TSV-5K (2) or T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
VR7	SSB "S" Meter	10K	123B-011	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
VR8a b	RF Gain Mike Gain	10K 10K					
VR9	RF Gain Range	10K	123B-0011	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
VR10	Balance	100	123B-016	TSV-100 (4) or T-100 (4)		MTC12L1 (4)	X201R101B (4)
VR11	Mod Meter	100K	123B-009	TSV-100K (2) or T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
VR13	Modulation	10K	123B-011	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
VR14	RF Meter	100K	123B-009	TSV-100K (2) or T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
VR15	Bias	200		T-200 (2) or TSV-250 (2)		MTC22L1 (2)	X201R251B (2)
VR16	ALC	30K	123B-010	TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR17	AM Xmit Power	20K	123B-013	T-20K (2) or TSV-25K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)
VR19	Voltage	200	123B-015	T-200 or TSV-250		MTC22L1	X201R251B

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

(4) Modify terminals to fit PC board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R124	.5 (1/4W)			R143	10 (10% 3W Metal)		
R127	2.2 (1/4W)			R147	1 (1W Metal)		
R142	10 (10% 3W Metal)			TH	3500 (Cold)		

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	TVI Trap (54MHz)	LC-018	TC-71024		
L2	RF Choke (100uH)			4642	
L3	RF Choke (8.2uH)			4611	
L4	RF Choke (3.9uH)			4608	
L5	RF Choke (470uH)			72F474AP	
L6	RF Choke (470uH)			72F474AP	
L7	RF Choke (470uH)			72F474AP	
L8	RF Choke	LE-008	NS-1367A		
L9	RF Choke	LE-008	NS-1367A		
L10	Final Amp (27MHz)	LC-018	TC-71024		
L11	RF Choke	LD-021	NS-1515B		
L12	Xmit Driver (27MHz)	LC-018	TC-71024		
L13	RF Choke	LD-021	NS-1515B		
L14	RF Choke	LD-021	NS-1515B		
L15	RF Choke	LE-001	NS-1516		
T1	Rec Mix (7.8MHz)	LA-027	TKAC-22015A		
T2	Input IF (455kHz)	LB-011	LPN-5944BM		
T3	Interstage IF (455kHz)	LB-003	LLC-3657		
T4	Output IF (455kHz)	LB-005	LLC-4990A2		
T5	Rec Antenna (27MHz)	LA-028	TKXC-22019GN		
T6	Rec RF (27MHz)	LA-025	TKXC-2201A0		
T7	Rec RF (27MHz)	LA-025	TKXC-2201A0		
T8	Rec Mixer (7.8MHz)	LA-038	TKAC-22524N		
T9	Syn Osc (11MHz)	LA-024	TKXN-21017ZV1		

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.	
T10	Syn Amp (19MHz)	LA-004	KXN-6711BM		
T11	Syn Amp (19MHz)	LA-004	KXN-6711BM		
T12	Syn Amp (19MHz)	LA-004	KXN-6711BM		
T13	Syn Amp (19MHz)	LA-004	KXN-6711BM		
T14	SSB Mix (7.8MHz)	LA-027	TKAC-22015A		
T15	SSB IF (7.8MHz)	LA-027	TKAC-22015A		
T16	Xmit Buffer (7.8MHz)	LB-013	113CC-2804AC		
T17	Balanced Mod (7.8MHz)	LA-023	TKAN-21026AO		
T18	Xmit Amp (27MHz)	LA-069	TKXC-23444X		
T19	Xmit Mix (27MHz)	LA-087	TKXC-24122X		
T20	Xmit Mix (27MHz)	LA-082	TKXC-241178BH		
T21	Xmit Mix (7.8MHz)	LA-068	TKAC-23360ZV1		

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
IPT	4	1		N24A-8580A (8580)				

REGENCY MODEL CR-123B

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
OPT	32	8	N35-8579B (8579)				

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
PT	120 VAC @ 390 mA	19 VAC @ 2.9A	(UT-123E)				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3-1/2" PM 8 Ohm		3A05Z8	

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
F3	1A Fast Acting	123B-050	123B-049	AGC1	HKP	312001	342013AL	FG1-2
F4	2A Fast Acting	123B-051	123B-048	AGC2	HDJ	312002	150145	FG2-2

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
X1	7.3435	123B-037	AGD32M7.3435	Receive	X10	7.3815	123B-027	AGB90M7.3815	3,7,11,15,19
X2	11.805	123B-029	AGA90M11.805	1,2,3,4	X11	7.4015	123B-028	AGB90M7.4015	4,8,12,16,20,23
X3	11.855	123B-030	AGA90M11.855	5,6,7,8	X12	7.3585	123B-021	AGC90M7.3585	1,5,9,13,17,21
X4	11.905	123B-031	AGA90M11.905	9,10,11,12	X13	7.3685	123B-022	AGC90M7.3685	2,6,10,14,18,22
X5	11.955	123B-032	AGA90M11.955	13,14,15,16	X14	7.3785	123B-023	AGC90M7.3785	3,7,11,15,19
X6	12.005	123B-033	AGA90M12.005	17,18,19,20	X15	7.3985	123B-024	AGC90M7.3985	4,8,12,16,20
X7	12.055	123B-034	AGA90M12.055	21,22,23	X16	7.7985	123B-035	AGD32M7.7985	USB
X8	7.3615	123B-025	AGB90M7.3615	1,5,9,13,17,21	X17	7.8015	123B-036	AGD32M7.8015	LSB
X9	7.3715	123B-026	AGB90M7.3715	2,6,10,14,18,22					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
F1	Crystal Filter	LF-86	455kHz IF
F2	Crystal Filter	K07F22A	7.8MHz
	Meter		S/RF
	Relay		Xmit/Rec
S2	Switch		Meter "S"/RF
S3	Switch		Blanker
S4	Switch		Mode, AM/USB/LSB
S7	Switch		Channel Selector
S8	Switch		CB/PA
	Printed Circuit Board	123E-100	
	Printed Circuit Board	123E-200	
	Socket	123B-042	Crystal

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

ITEM	PART No.	ITEM	PART No.
Chassis	123B-053	Knob, M4-02146	123B-067
Bonnet	123B-054	Knob, M4-02147	123B-068
Bottom Board	123B-055	Knob, M4-02148	123B-069
Front Panel	123B-061	Channel Plate	123B-070
Knobs, Channel	123B-066		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
AC Power Cord	123B-047	

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Shielded Antenna Lead	8524 (Stranded) Available in 12 Colors
	8214 Lowest-loss (RG-8/U Type)
	8231 Low-loss (RG-8/U)
	8240 (Solid) Miniature (RG-58/U)
	8250 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene
	8491 4-Conductor (2 shielded, 2 unshielded) Neoprene
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 inch)