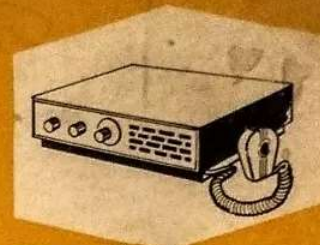


SAMS PHOTOFACT[®]



CB RADIO SERIES

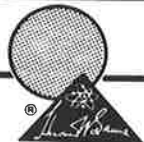
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HOWARD W. SAMS & CO., INC. Indianapolis, Indiana



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 TRC-46 (21-146)

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

T2, T3, T4, T9, T10, T11, T12, T13, T14, T15, T16 ...	GC ELECTRONICS #9440
T1, T19, T20, T21, T22, T23, T24, T25, T26	#9087, #9089
T5, T6, T7, T8	#8728

REALISTIC MODEL TRC-46

SYNTHESIZER ALIGNMENT

Connect 1000 Hz audio generator to mike input.
Connect frequency counter to antenna output jack.
Turn clarifier knob fully counterclockwise.
Key transmitter before each adjustment.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
Frequency Counter Audio Generator (Mod. 1000 Hz)	1 LSB	C116, C105	26.96330 MHz
	2 LSB	C106	26.97330 MHz
	3 LSB	C107	26.98330 MHz
	4 LSB	C108	27.00330 MHz
Same as above (Unmod.)	1 AM	C133	26.96430 MHz
	2 AM	C134	26.97430 MHz
	3 AM	C135	26.98430 MHz
	4 AM	C136	27.00430 MHz
	5 AM	C117	27.01430 MHz
	9 AM	C118	27.06430 MHz
	13 AM	C119	27.11430 MHz
	17 AM	C120	27.16430 MHz
	21 AM	C121	27.21430 MHz

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4CY132

OSC ALIGNMENT

INDICATOR	ADJUST	REMARKS
AM LOCAL OSCILLATOR Frequency Counter	C101	Set function switch to AM, connect frequency counter to the emitter of Q10 (AM Receiver Oscillator). Adjust frequency to 11.730 MHz.
CARRIER OSCILLATOR (LSB)	C174	Set function switch to LSB, connect frequency counter to wiper arm of R72. Adjust frequency to 11.272 MHz.
CARRIER OSC (AM & USB)	C161	Set function switch to USB, connect frequency counter to wiper arm of R72. Adjust frequency to 11.275 MHz.

RECEIVER ALIGNMENT

AM

Connect an AC-VTVM or audio power meter across speaker voice coil. Set clarifier control to center position; squelch at MINIMUM, RF gain at MINIMUM. Set Volume for suitable reading.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
Connect high side thru .01uF to antenna connector, low side to chassis. Set to 27.075 MHz (30% mod.).	10	T25,T1 T2,T3, T4,T5, T6,T7, T8,T9, T10,T11, T12,T13, T14,T15, T16,R12	Keep generator output low enough to prevent overload. Adjust for maximum output. Set R12 for desired sensitivity.
"S" METER As above with 100 uV output	10	R331	Adjust for S-9 reading on S meter.
SQUELCH As above	10	R19	Set Squelch to "0", RF gain to MINIMUM. Adjust for 500 mW output with volume control set fully clockwise.

RECEIVER ALIGNMENT

SSB

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
Connect high side thru .01 uF to antenna connector, low side to chassis. Set to 27.074 MHz (unmod. .)	10	T8,T9, T10,R67	Adjust clarifier for 1000 Hz beat. Adjust T8, T9, T10 for maximum. Adjust R67 for desired sensitivity.
"S" METER Connect high side thru .01 uF to antenna connector, low side to chassis. Set to 100 uV (Mod.).	10	R382	Squelch set to "0", RF gain to MINIMUM. Adjust for "S-9" reading on S meter.
AGC Same as above	10	R77	Adjust for .6 V on meter.
SQUELCH Same as above	10	R221	Set Squelch fully clockwise, Function switch to LSB. Adjust until squelch breaks between 100 to 140 uV.
ALC Audio generator 1 kHz	10	R316	Function switch to LSB. Adjust for 3 watts output.

AM

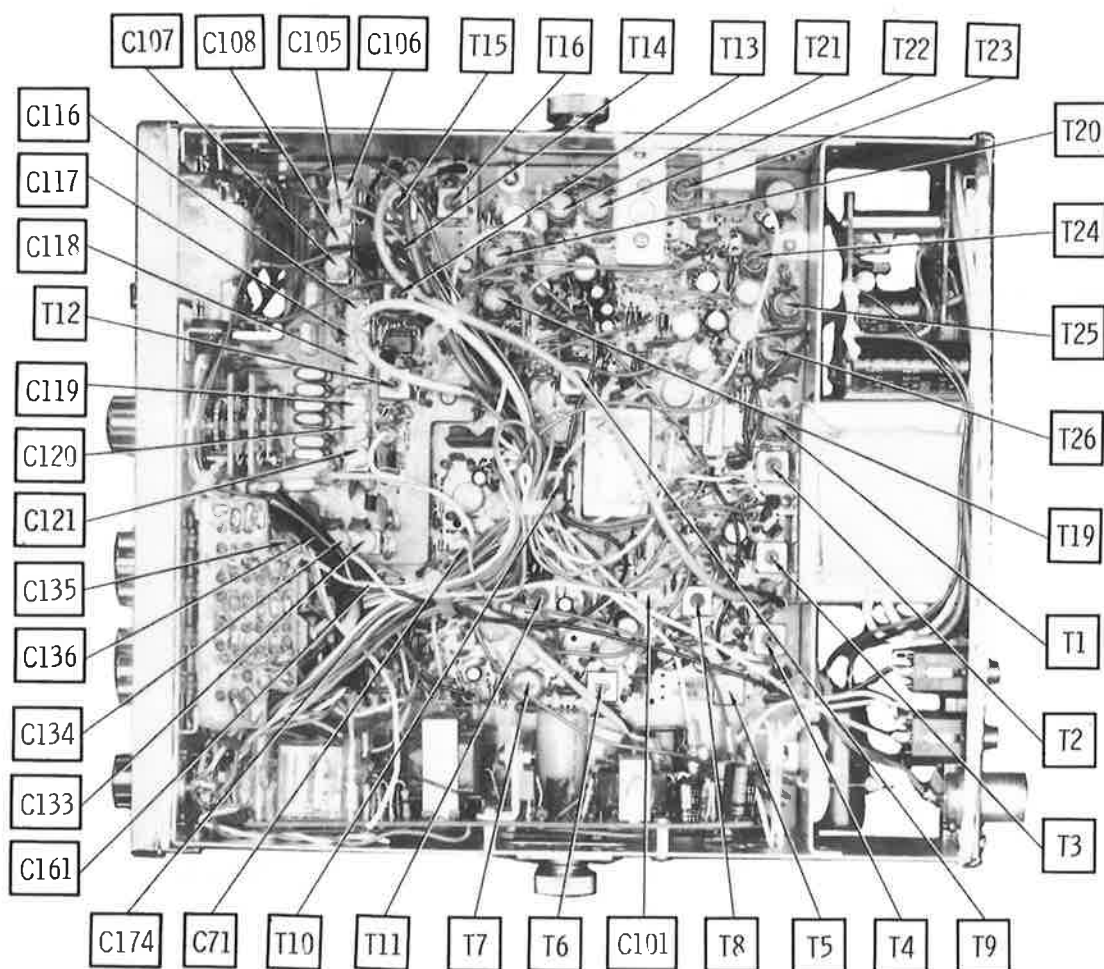
TRANSMITTER ALIGNMENT

INDICATOR	ADJUST	REMARKS
RF Wattmeter Scope	R212,T19 T20, T21,T22, T23,T24, T26 T15,T16	Connect wattmeter and oscilloscope to antenna jack. Apply a 1 mV, 1 kHz signal to microphone input jack. Key transmitter and adjust R212 for 100% modulation. Adjust transformers for maximum output. Remove 1 kHz modulation and adjust T15 and T16 for maximum power output.
RF METER ADJUSTMENT	R333	Adjust front panel meter to agree with power reading of RF wattmeter.

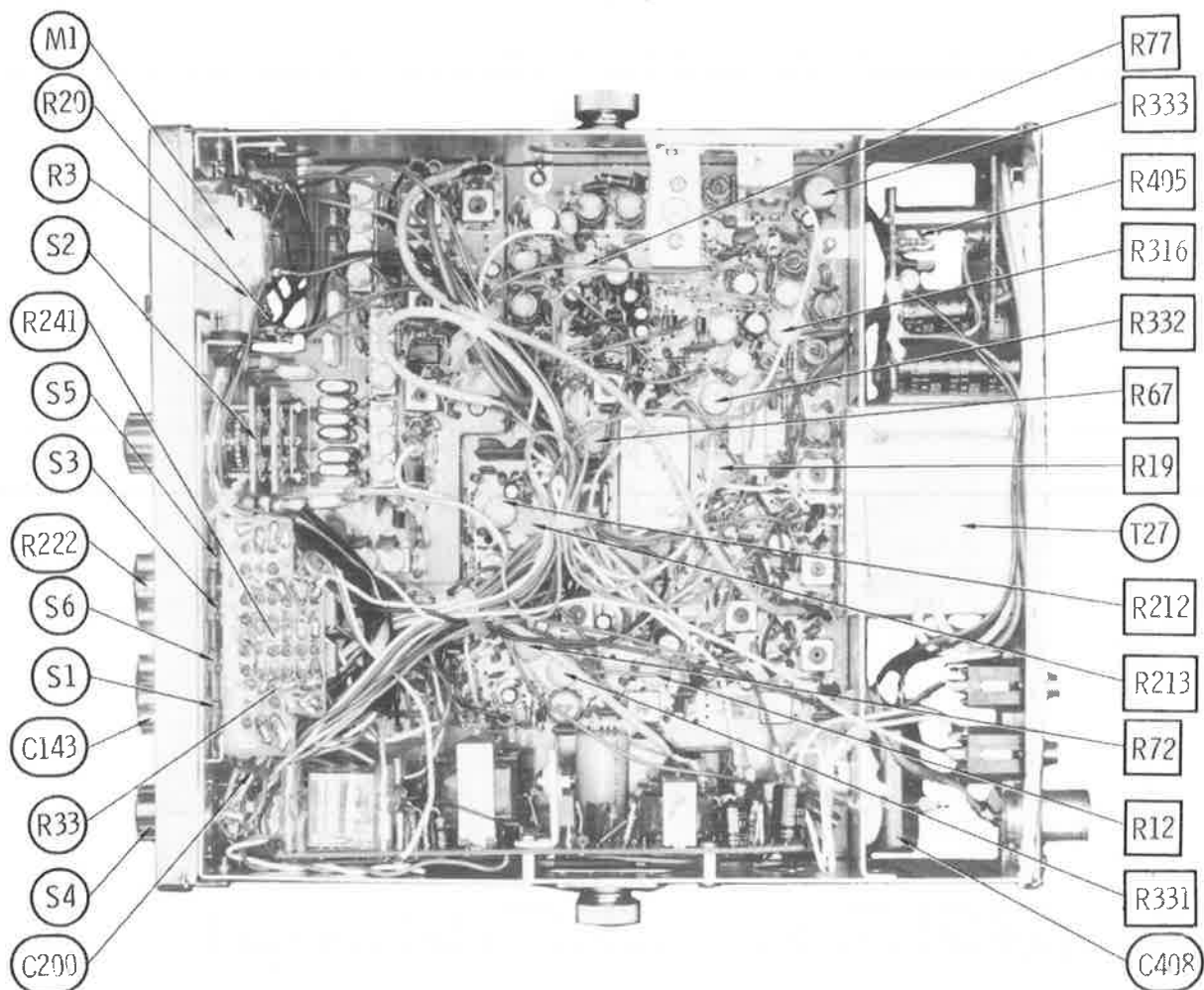
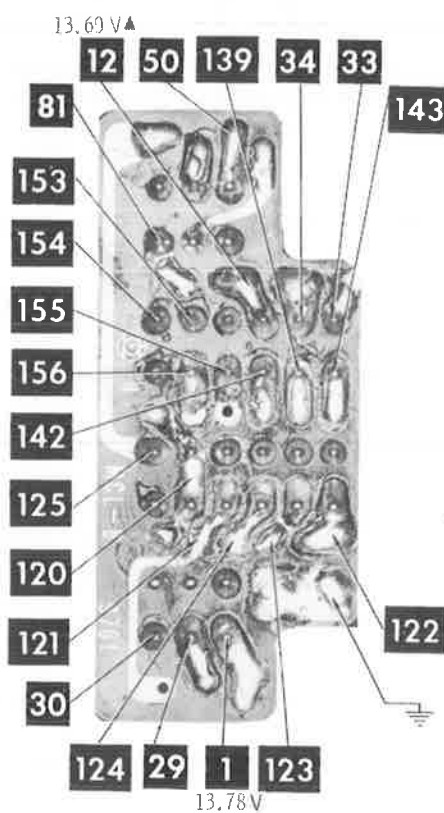
SSB

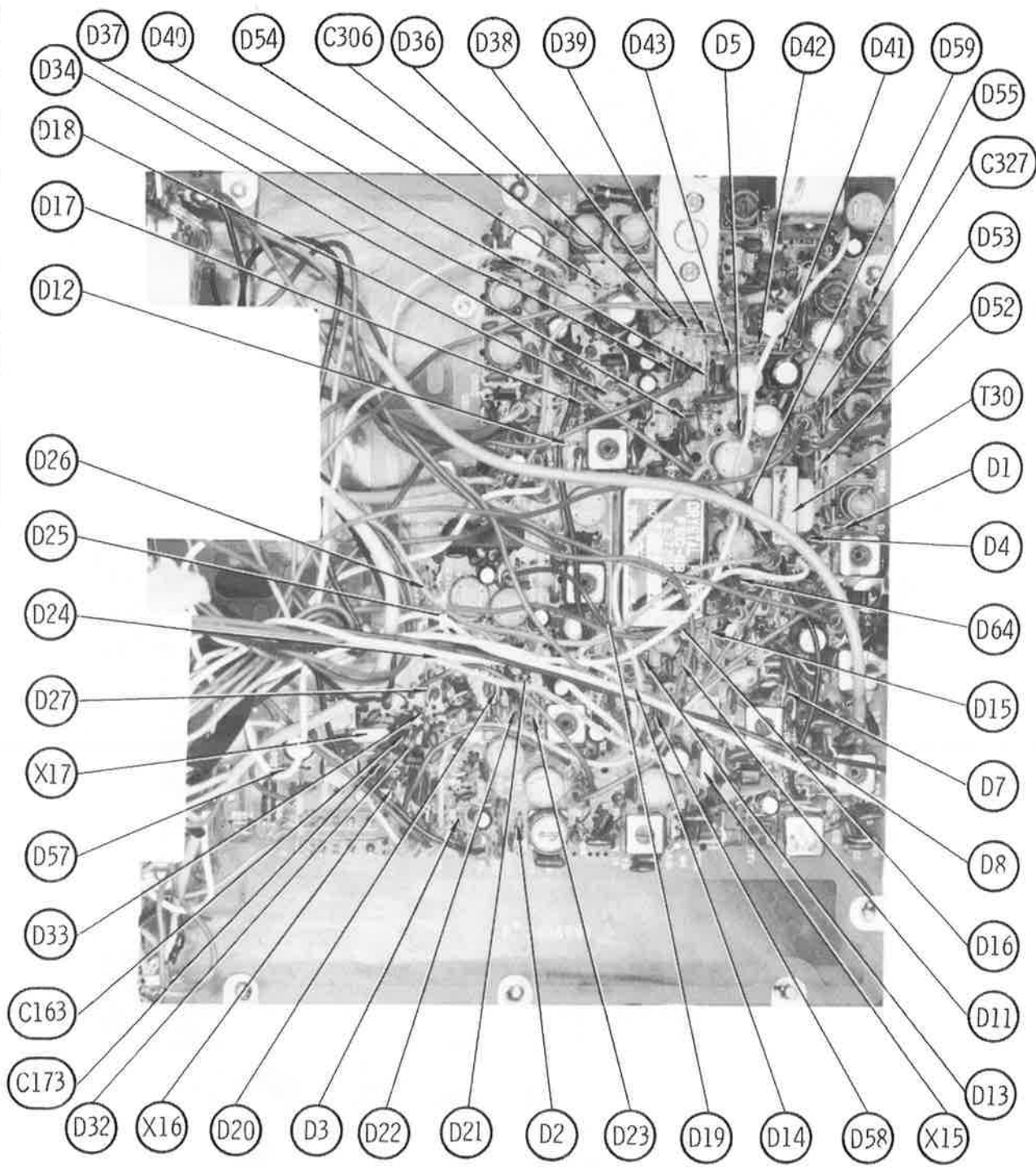
TRANSMITTER ALIGNMENT

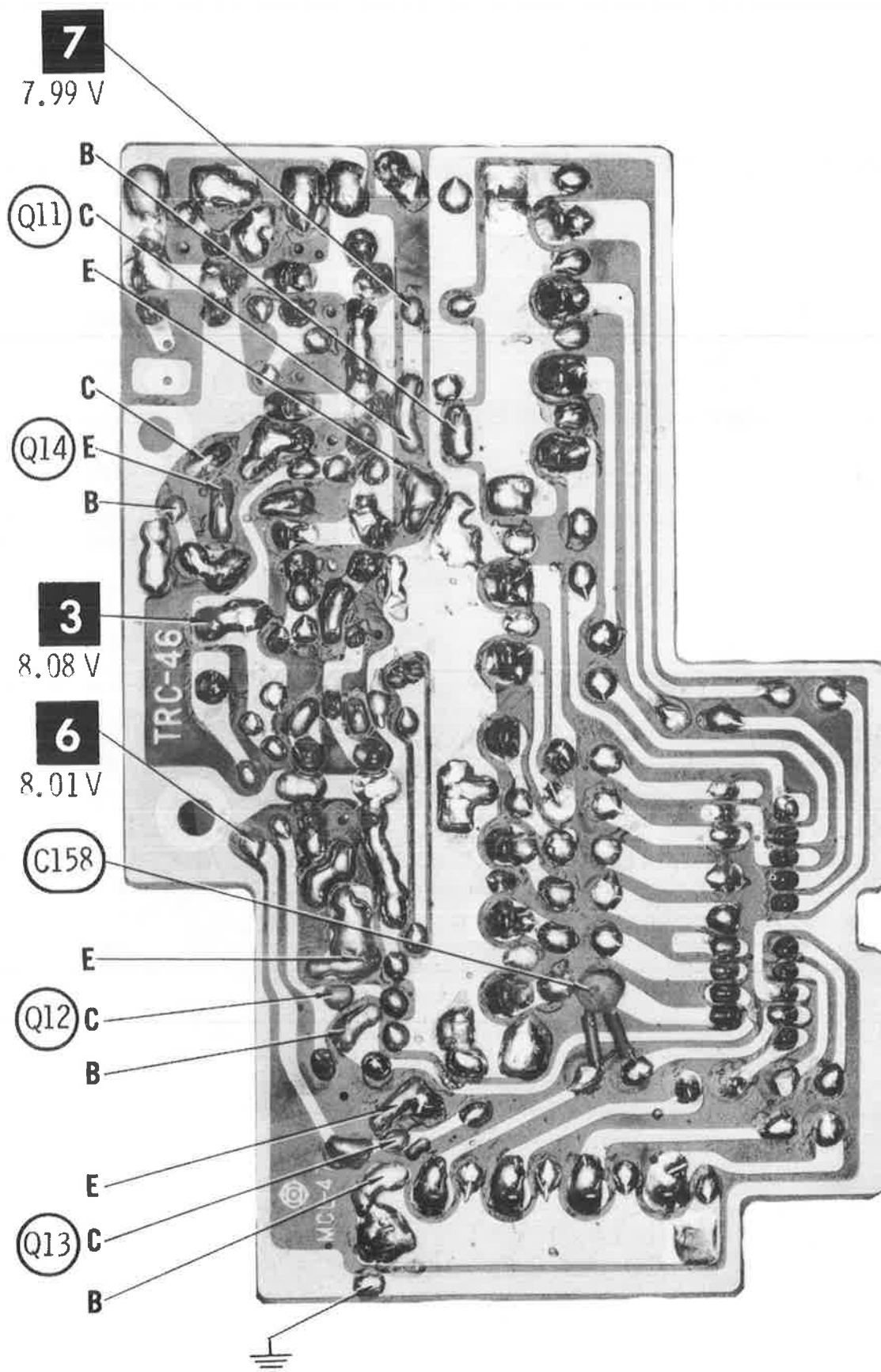
INDICATOR	ADJUST	REMARKS
RF Wattmeter	R213 T11 R72 C71	Function Switch to LSB. Audio generator (1 mV) 1 kHz to microphone input. Key transmitter and adjust R213 for 1.5 watts. Adjust T11 for maximum power output. Adjust R72 and C71 alternately for MINIMUM power output.



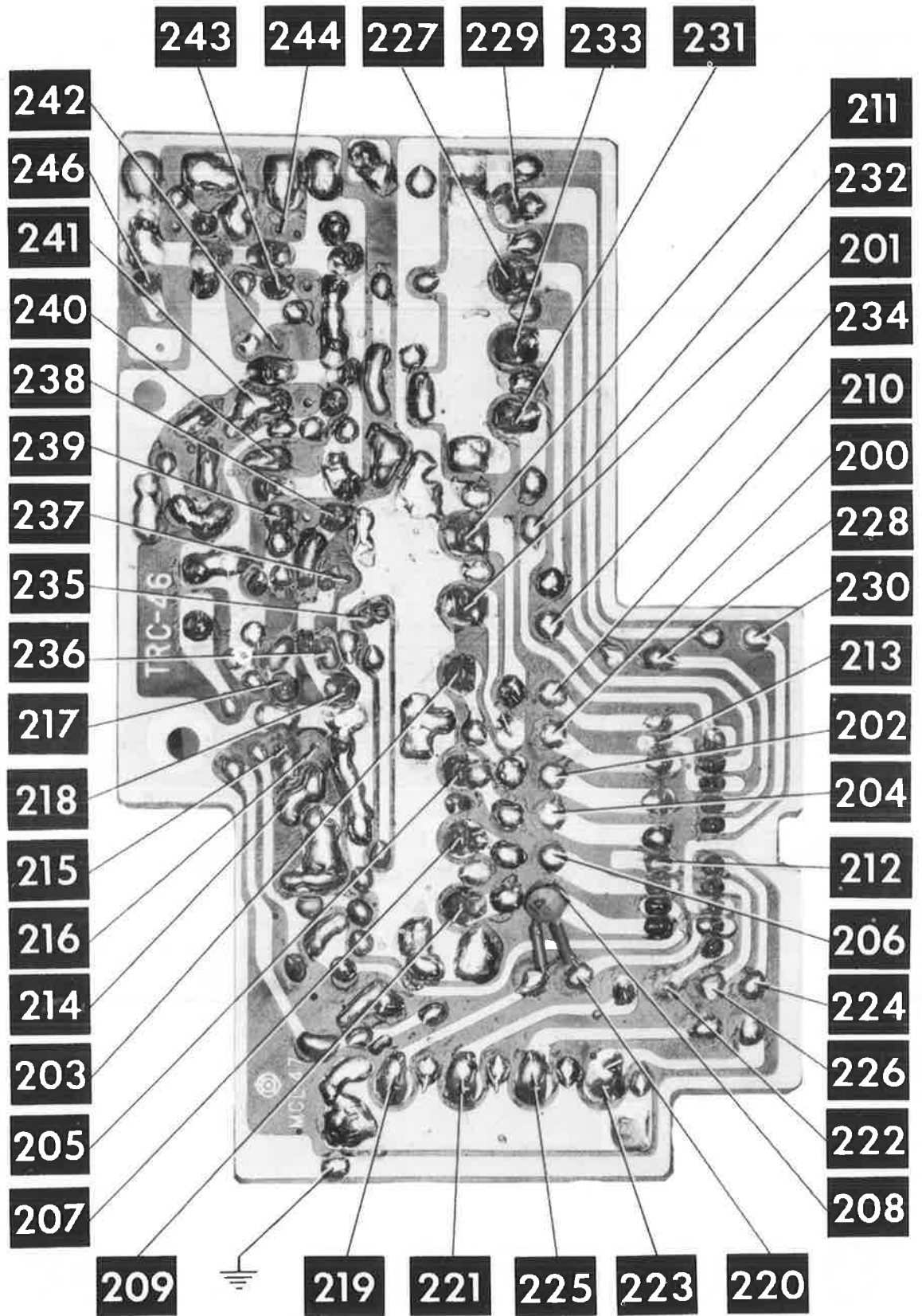
REALISTIC MODEL TRC-46



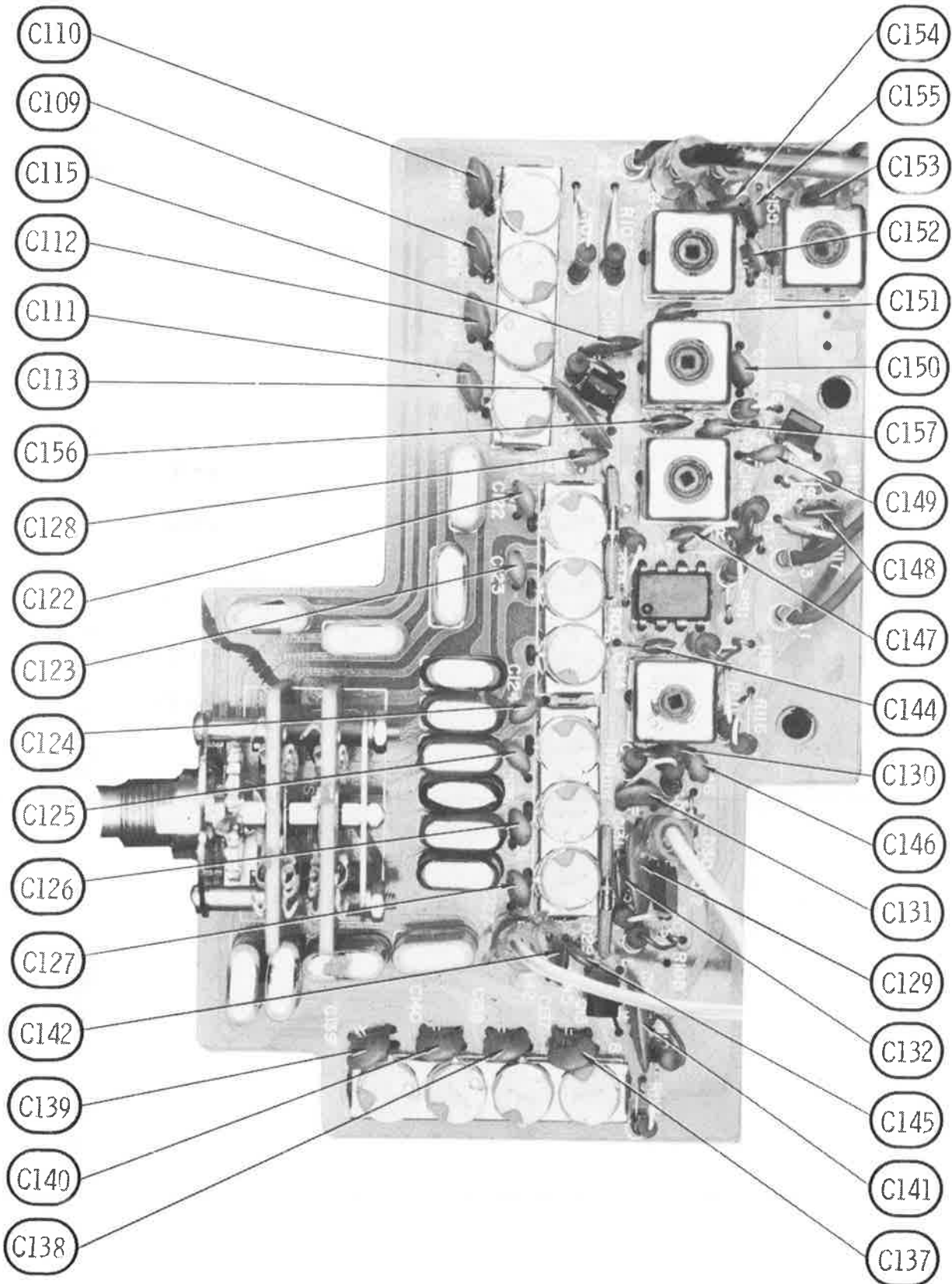


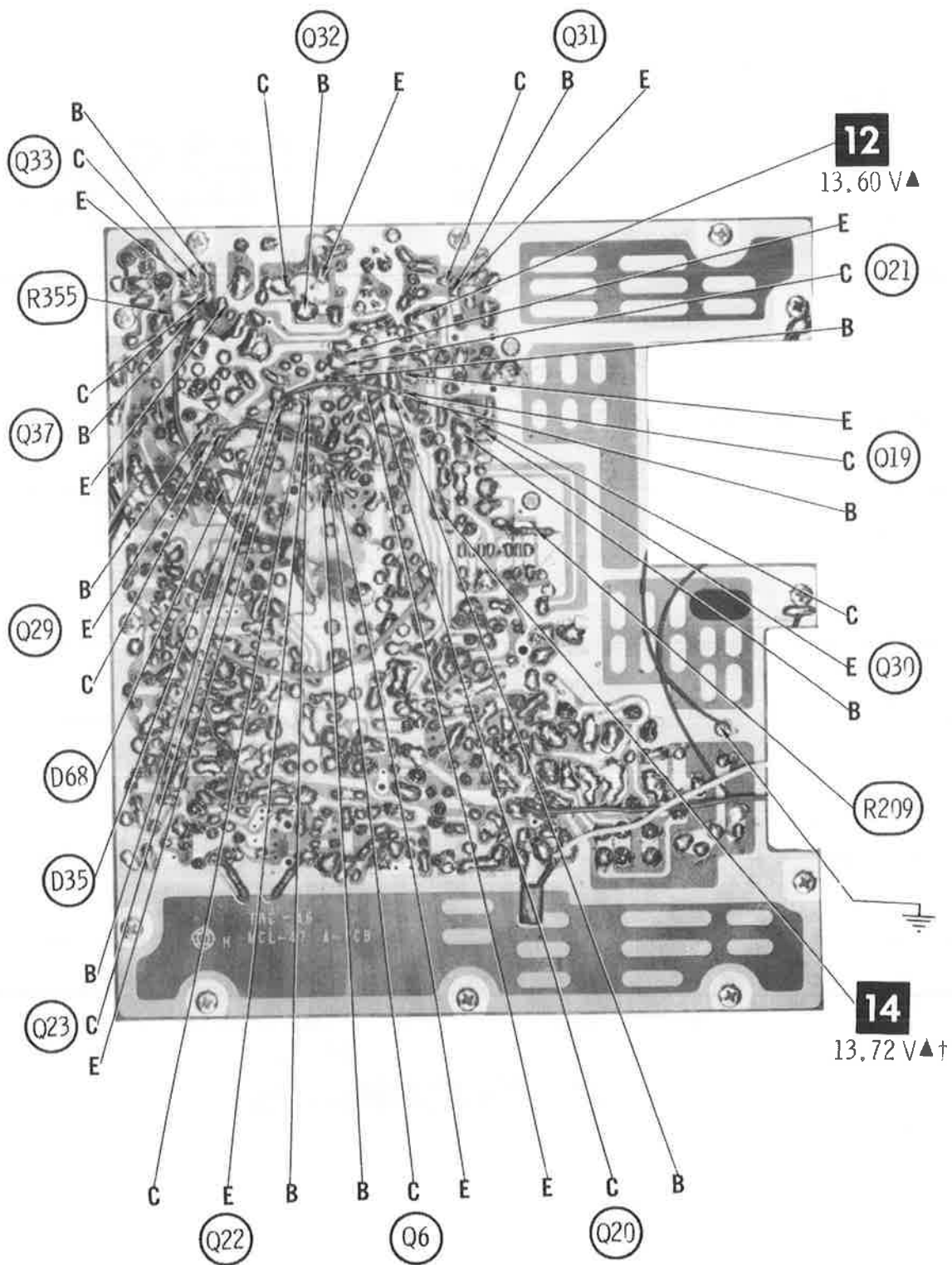


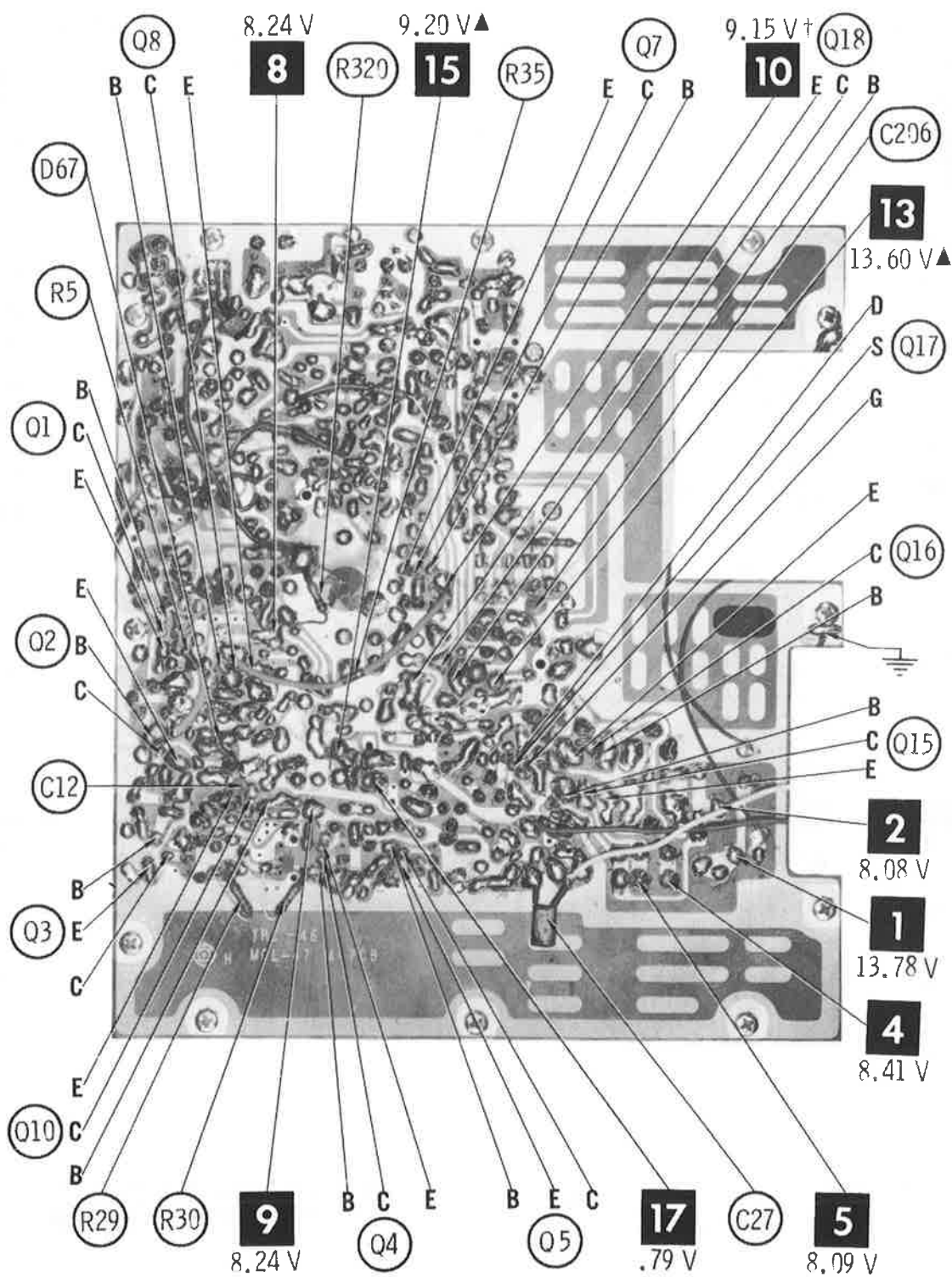
A Howard W. Sams **CIRCUITRACE** Photo

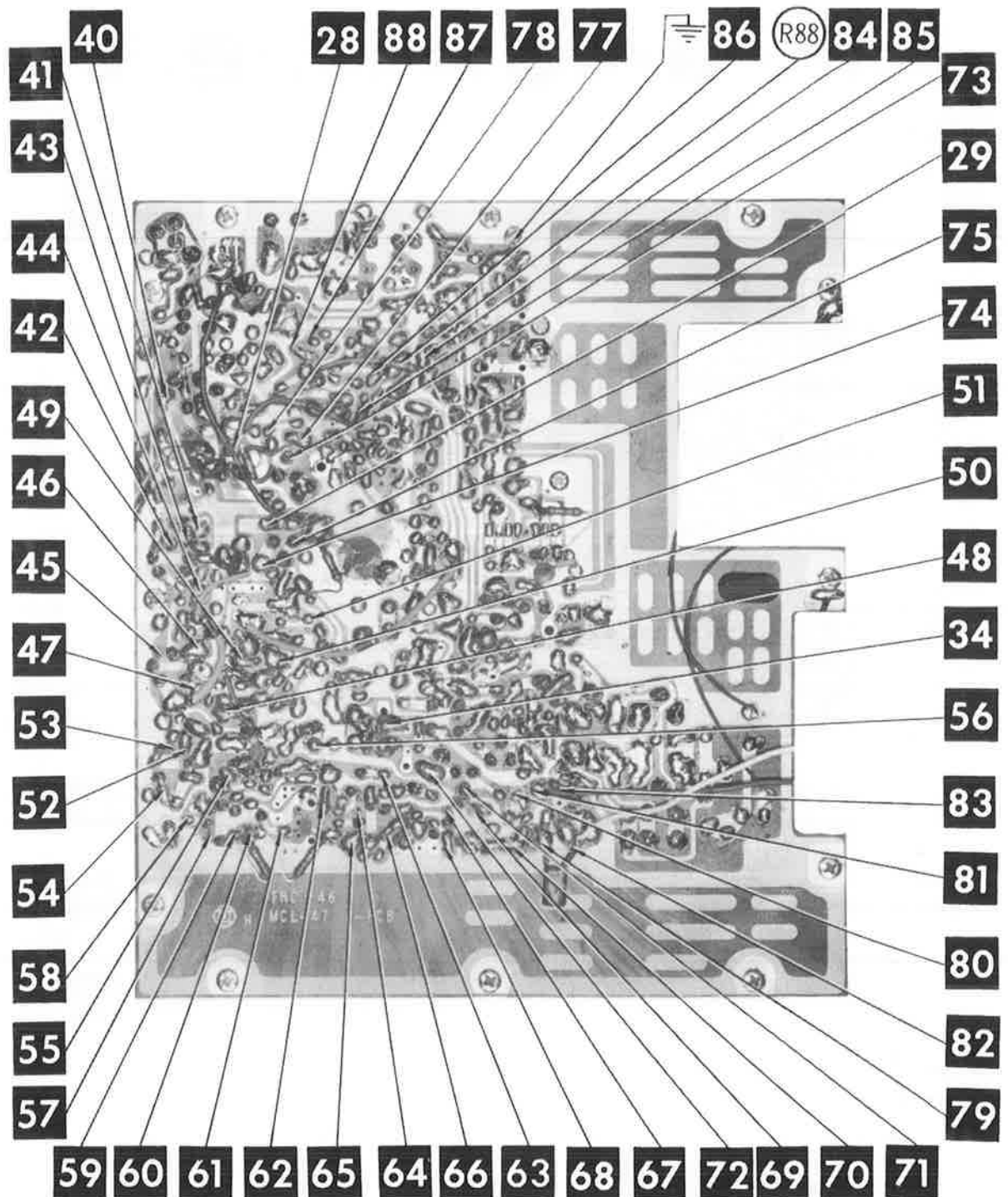


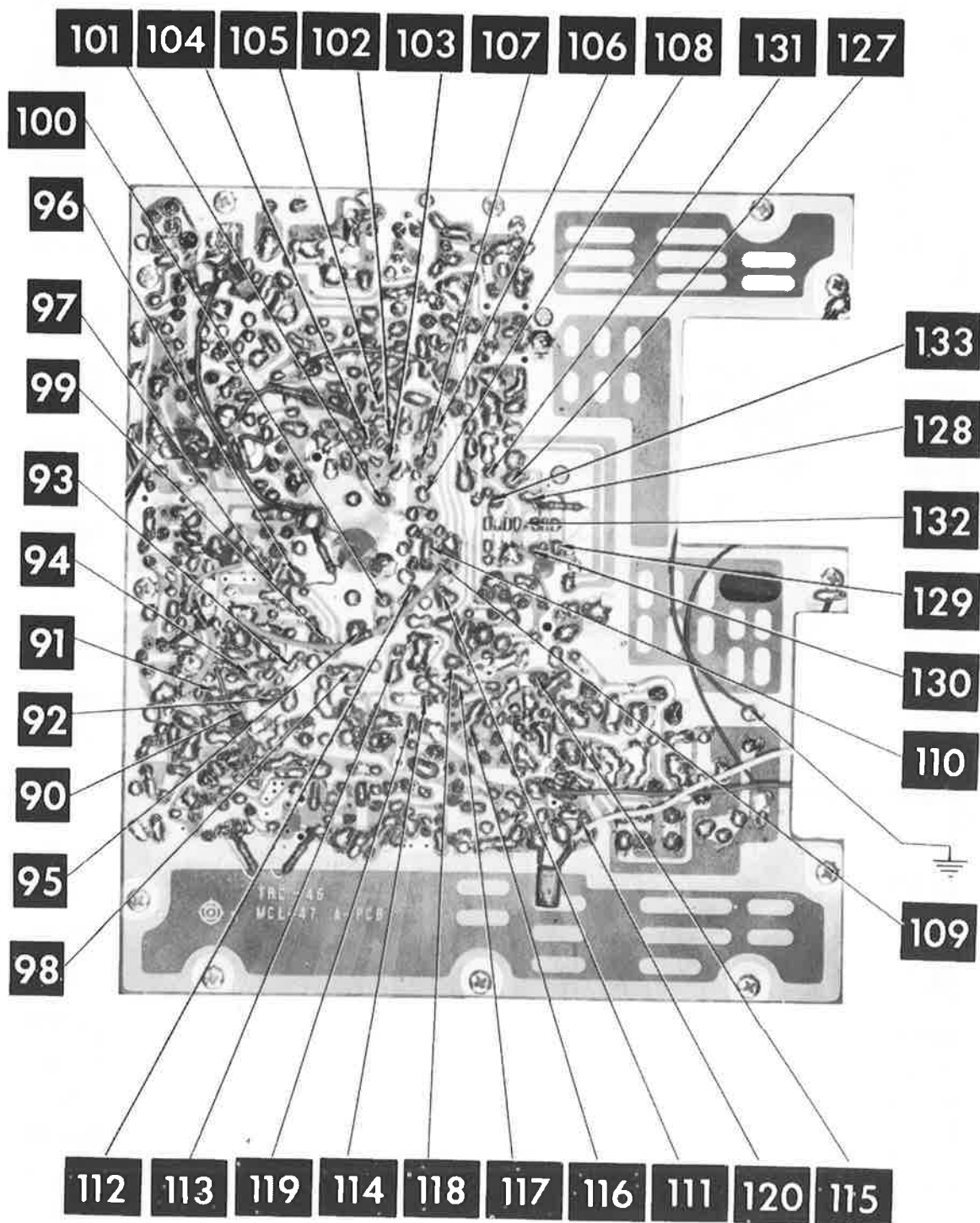
A Howard W. Sams **CIRCUITRACE** Photo

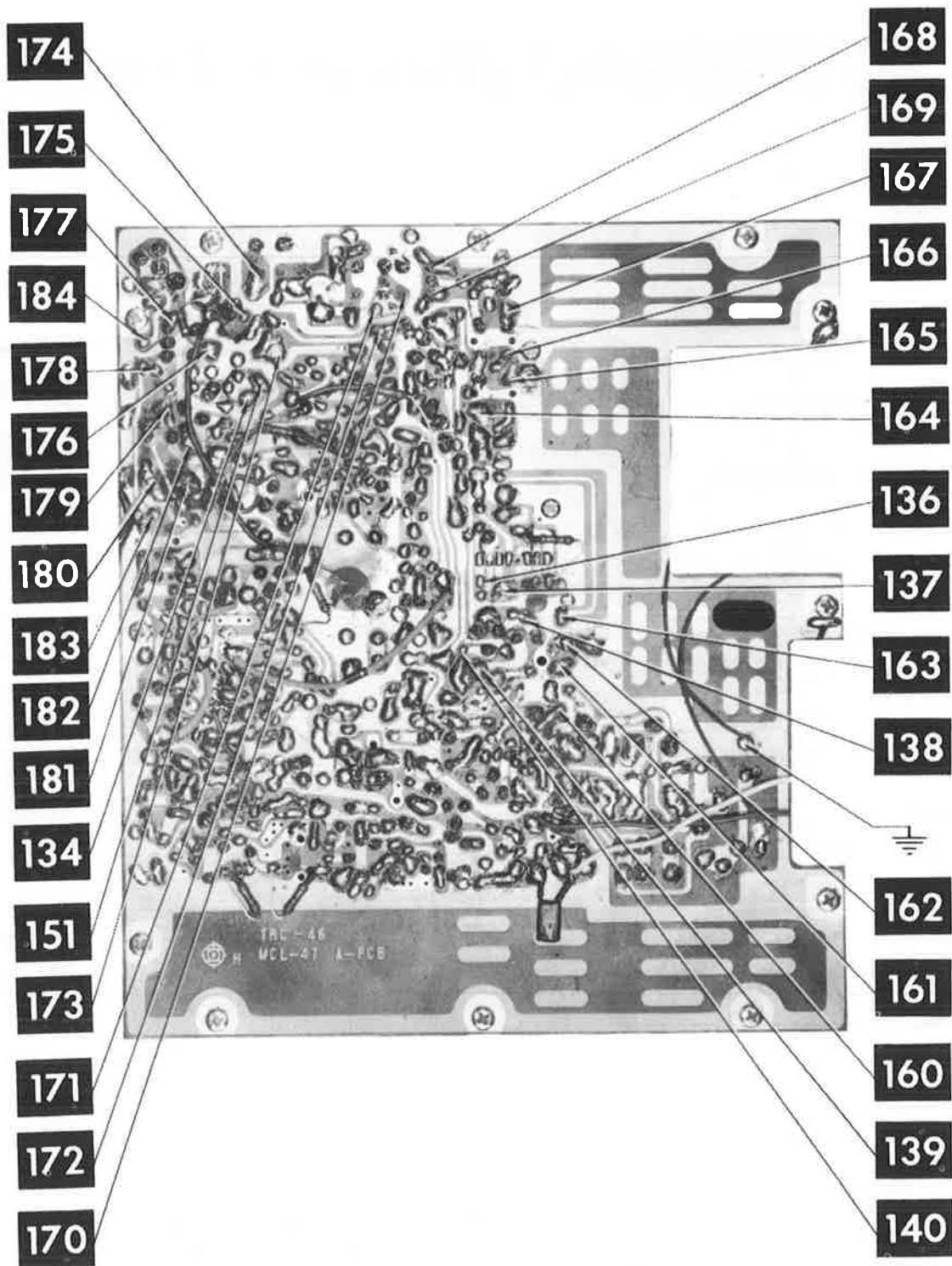


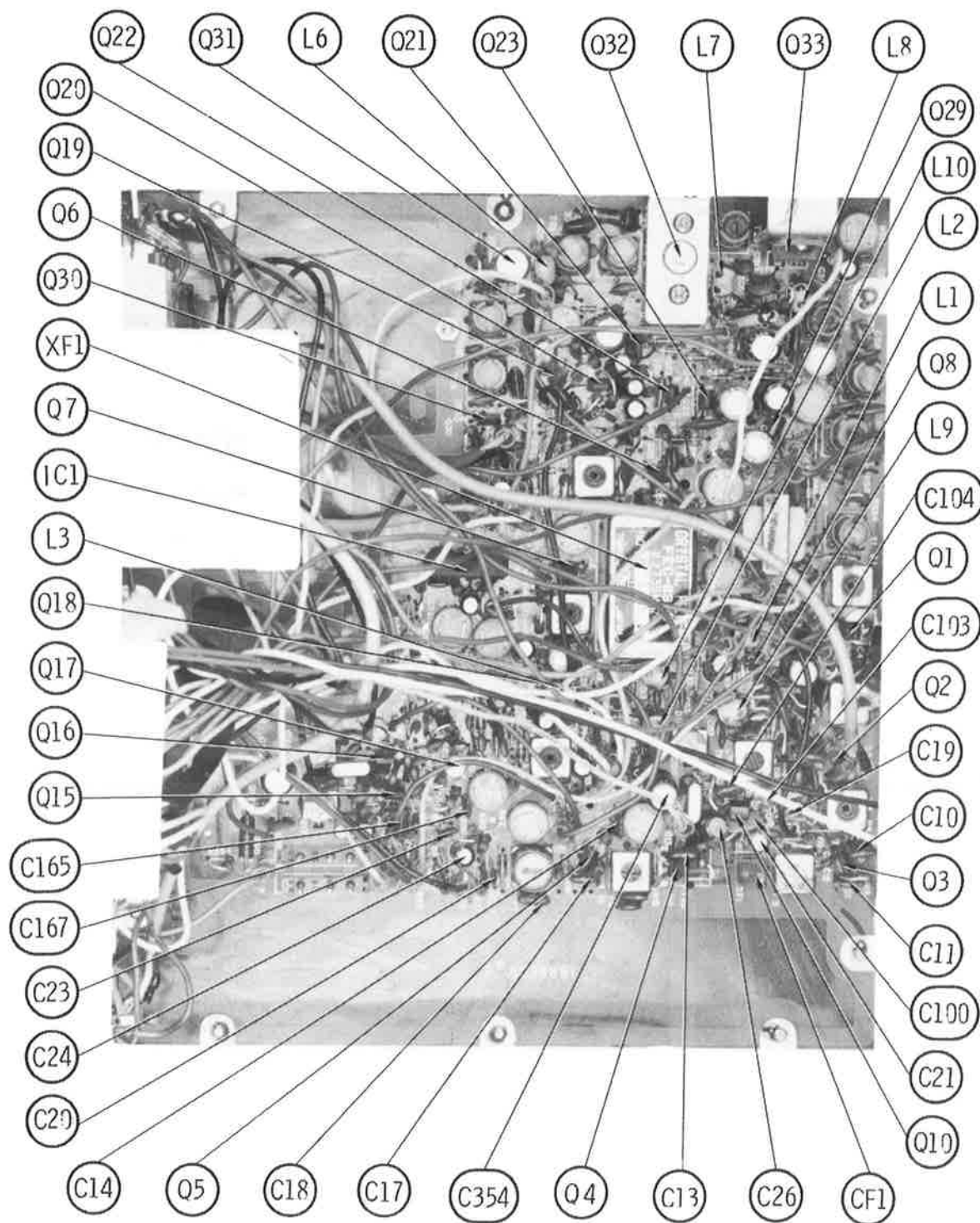


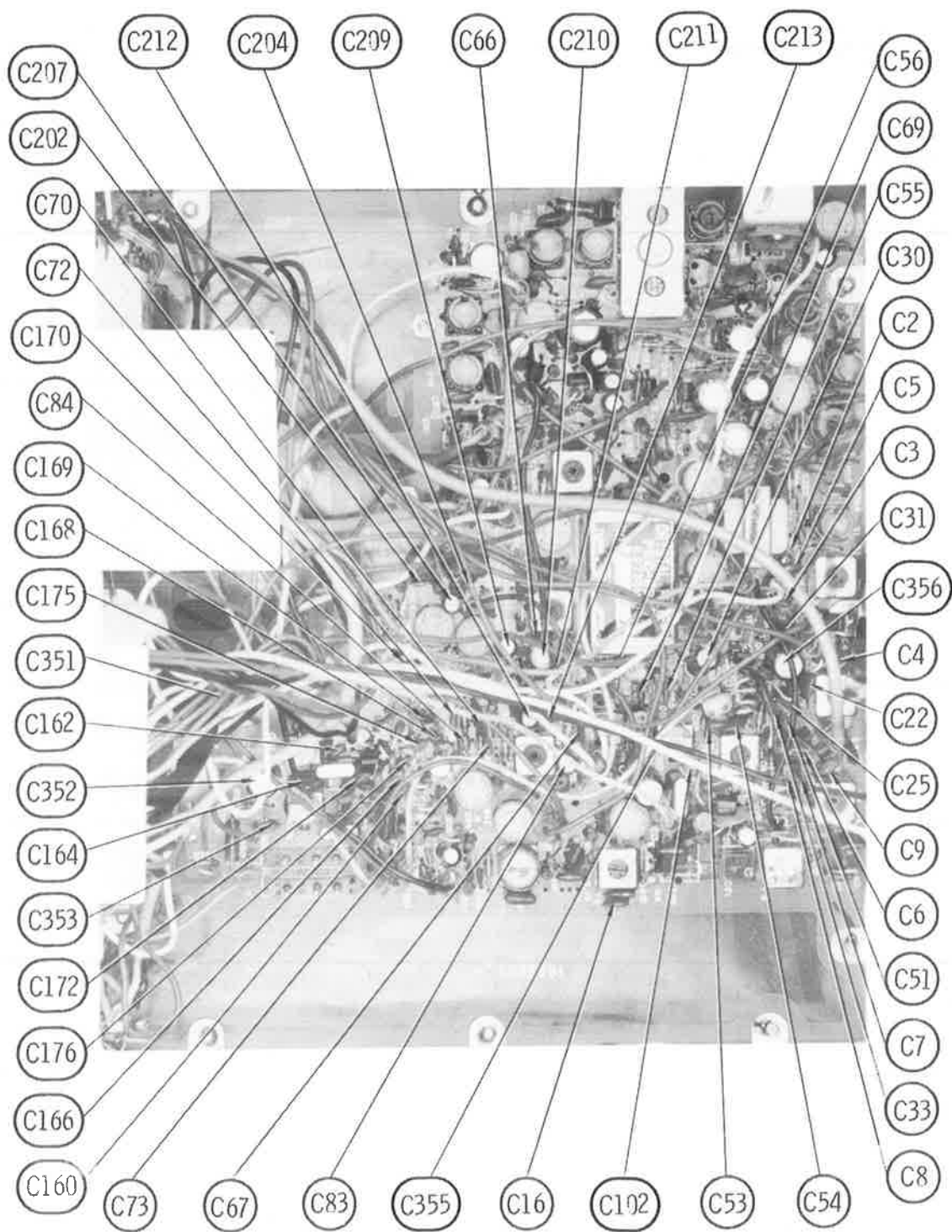


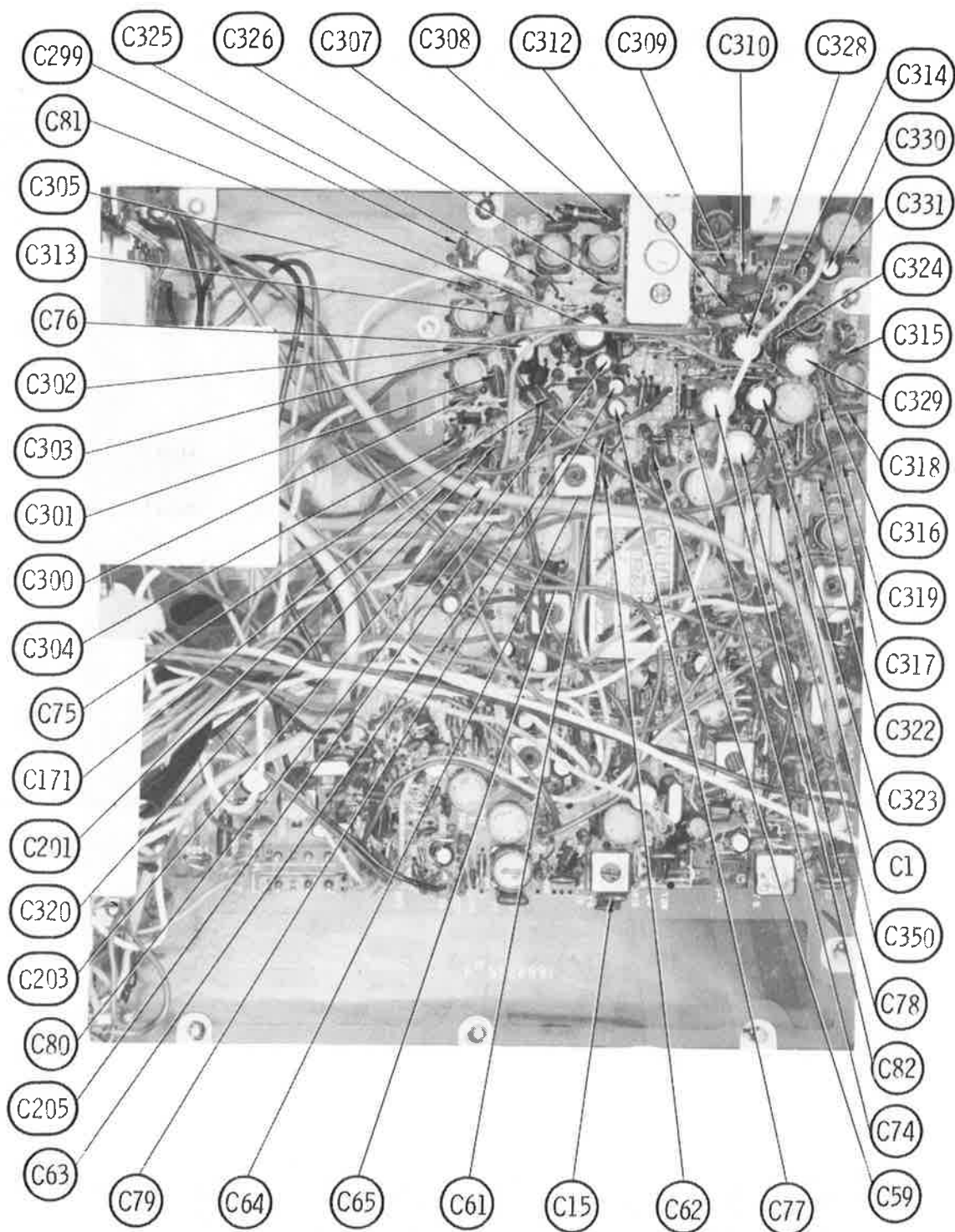


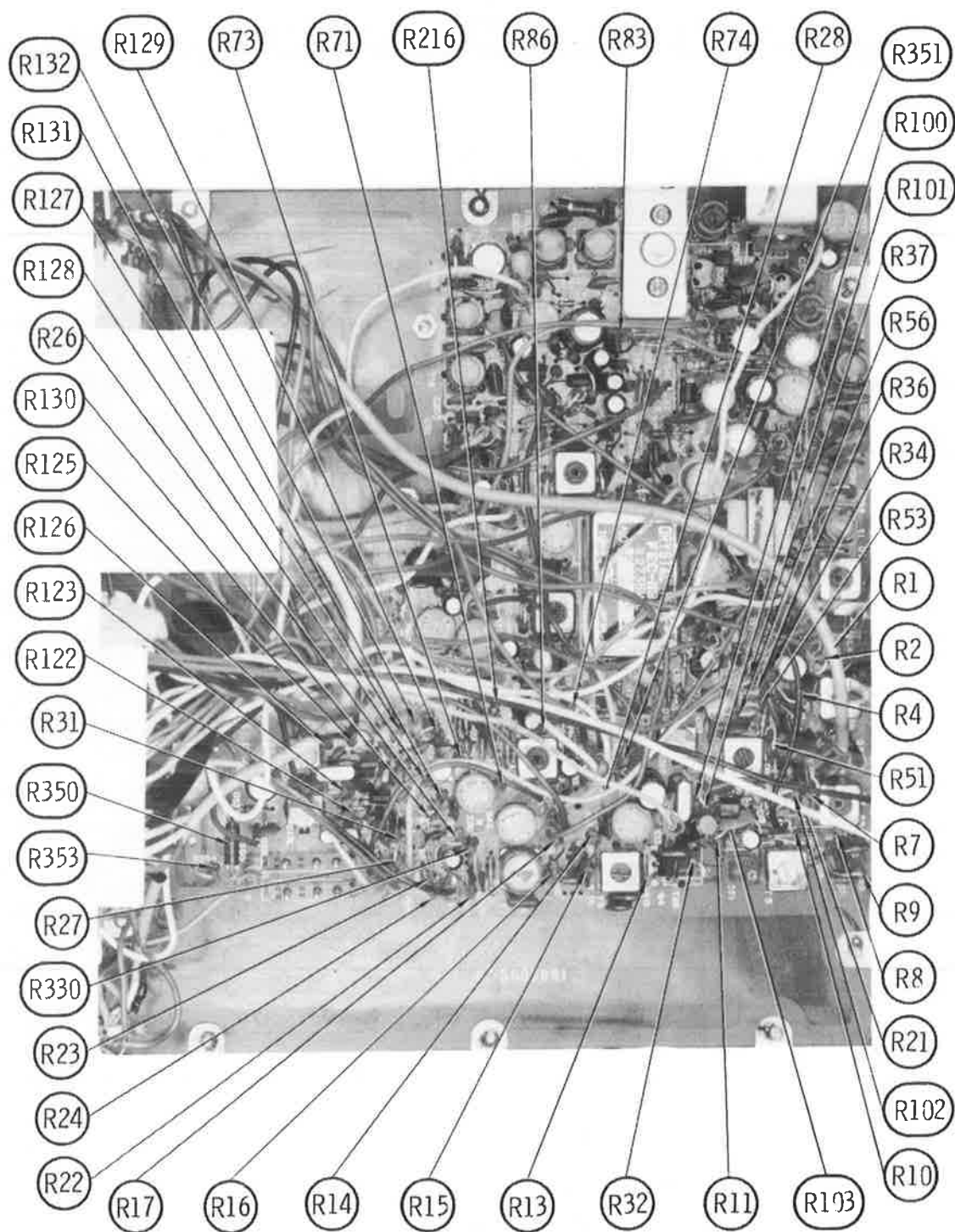


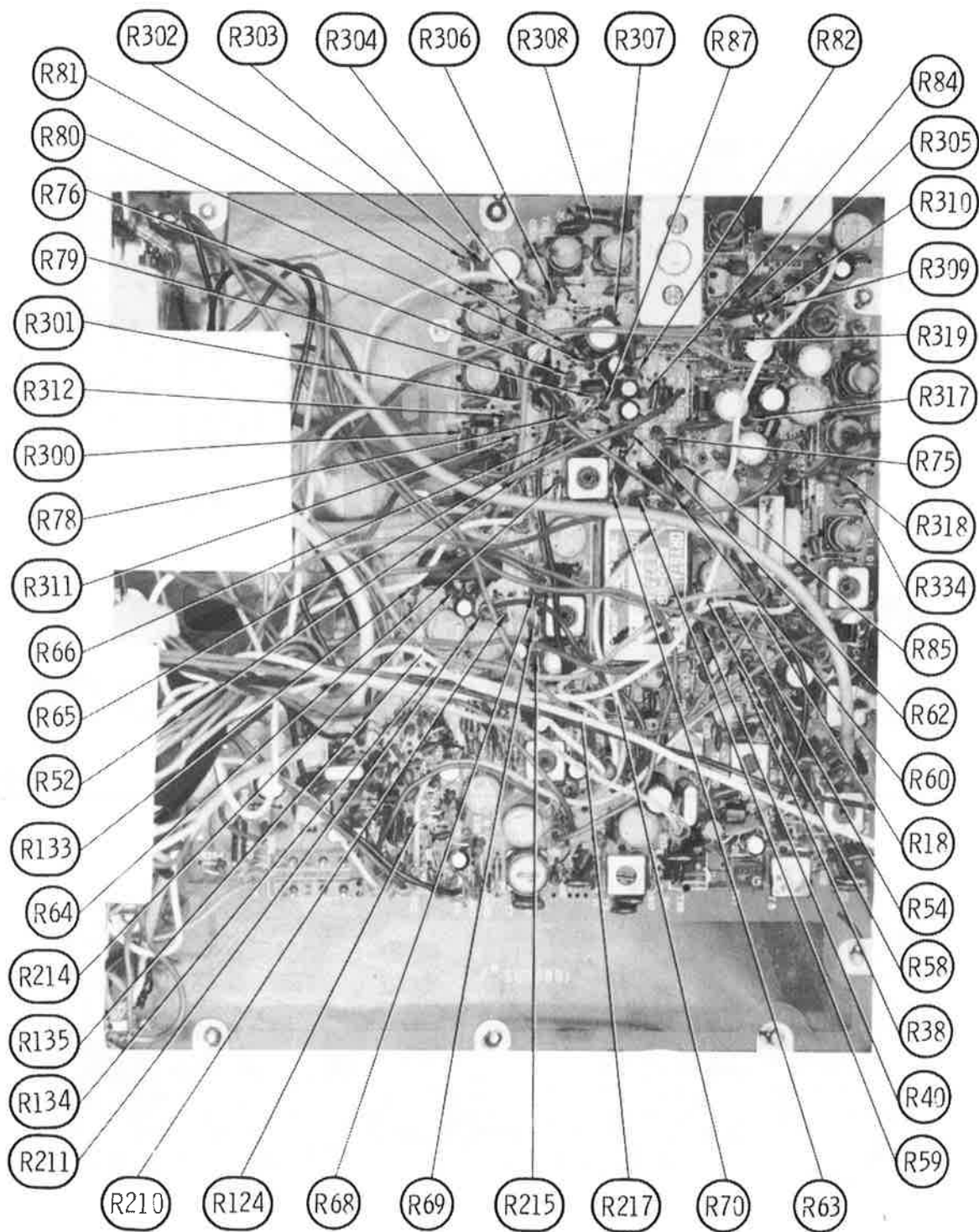












REALISTIC MODEL TRC-46

13.78V 8.24V 8.24V

16

9

8

Q28

B C E

R246

Q26

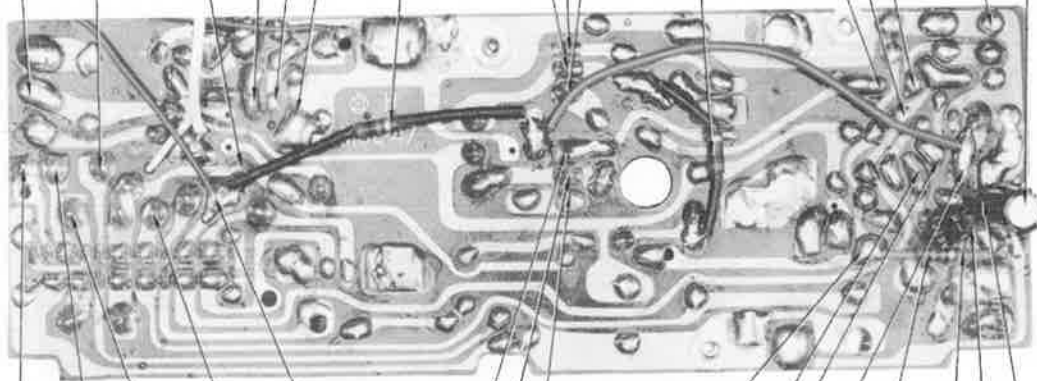
C B E

R245

Q25

C B E

C35



5

2

4

10

12

8.09V 8.08V 8.41V 9.15V + 13.60V▲

Q27

B C E

11

Q24

B C E

R226

Q9

B E C

135

152

32

153

157

158

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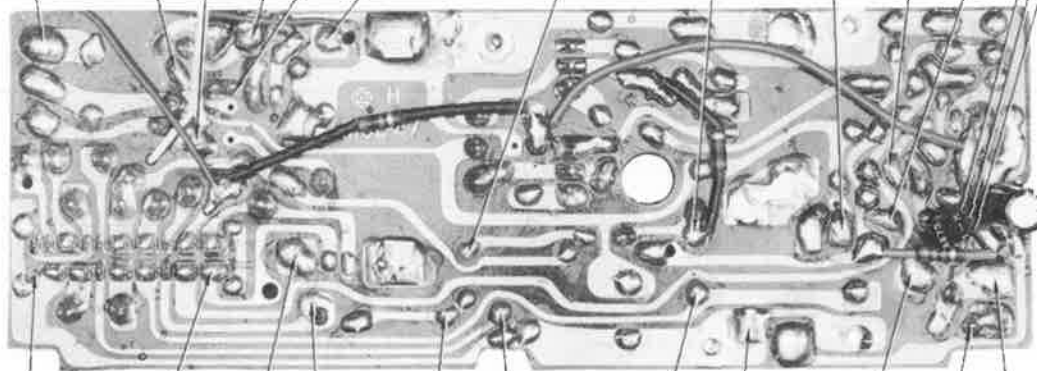
148

123

147

126

Q38
E
C
B



185

144

142

141

145

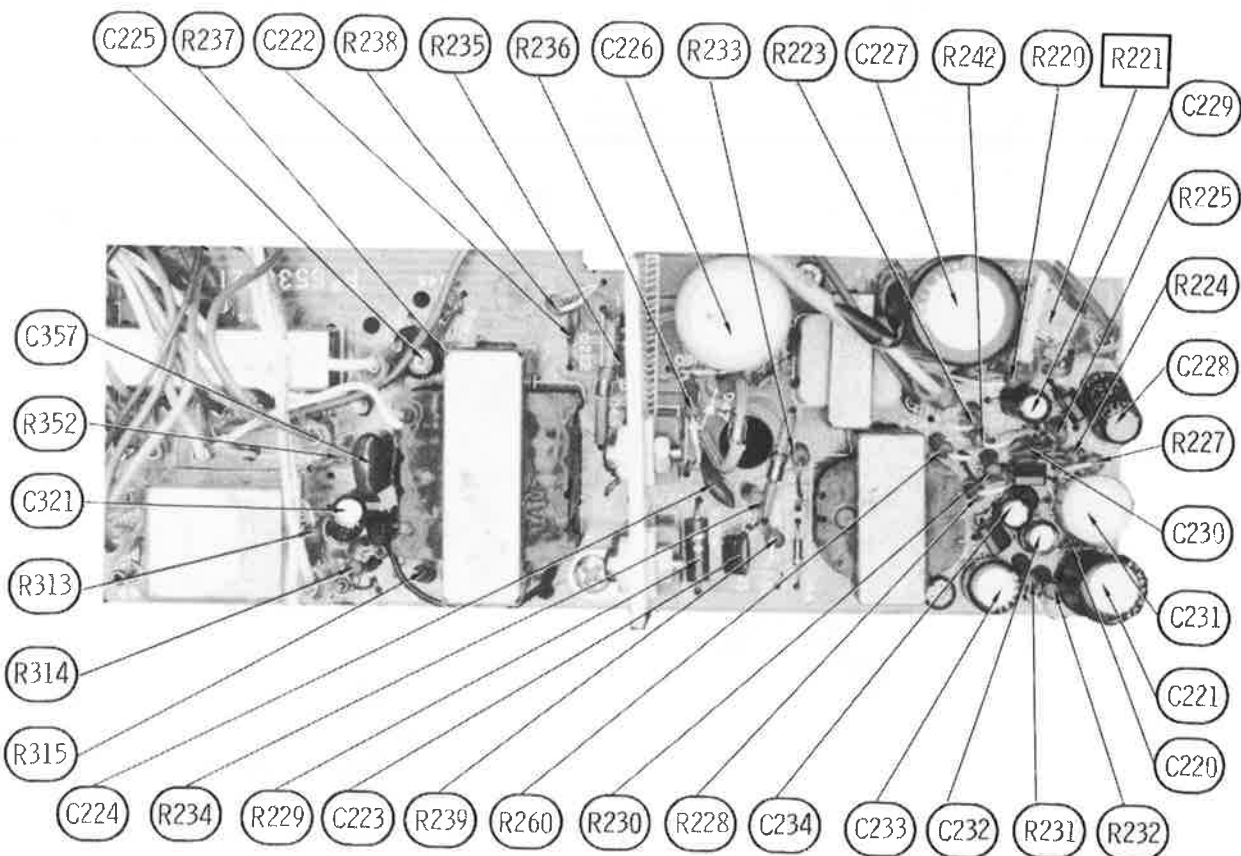
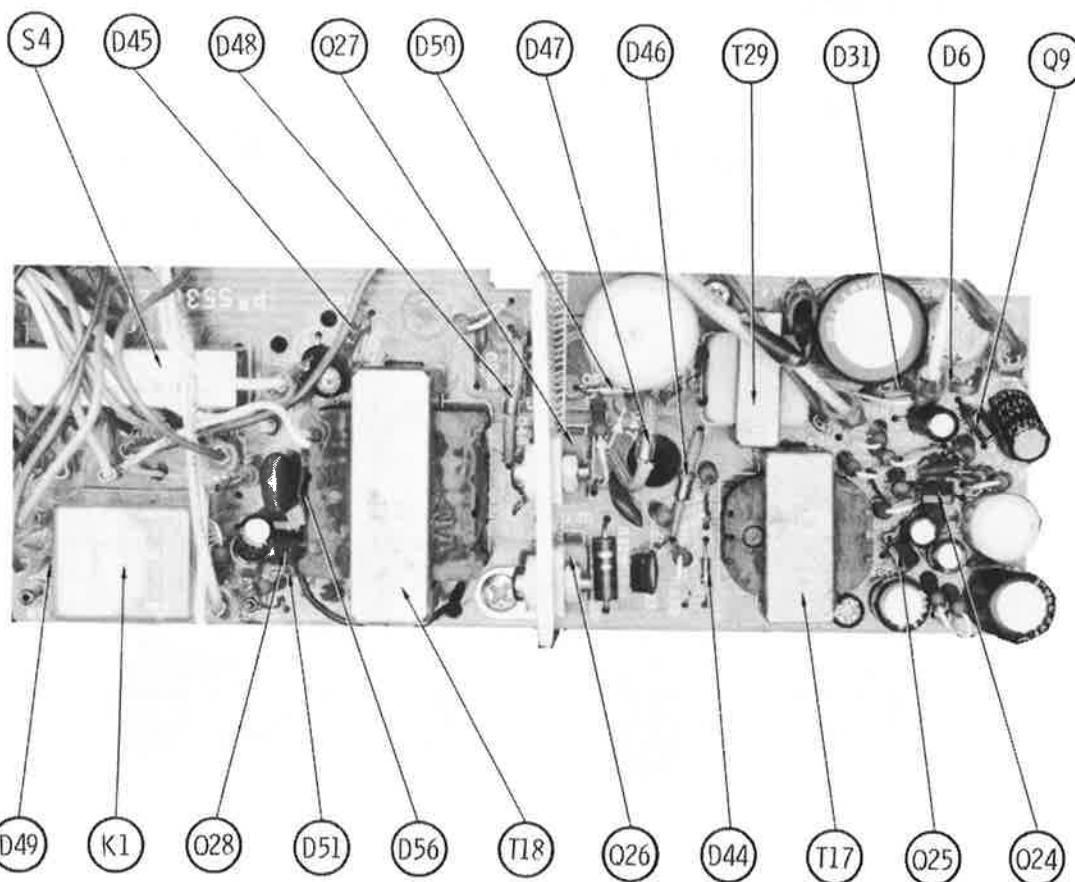
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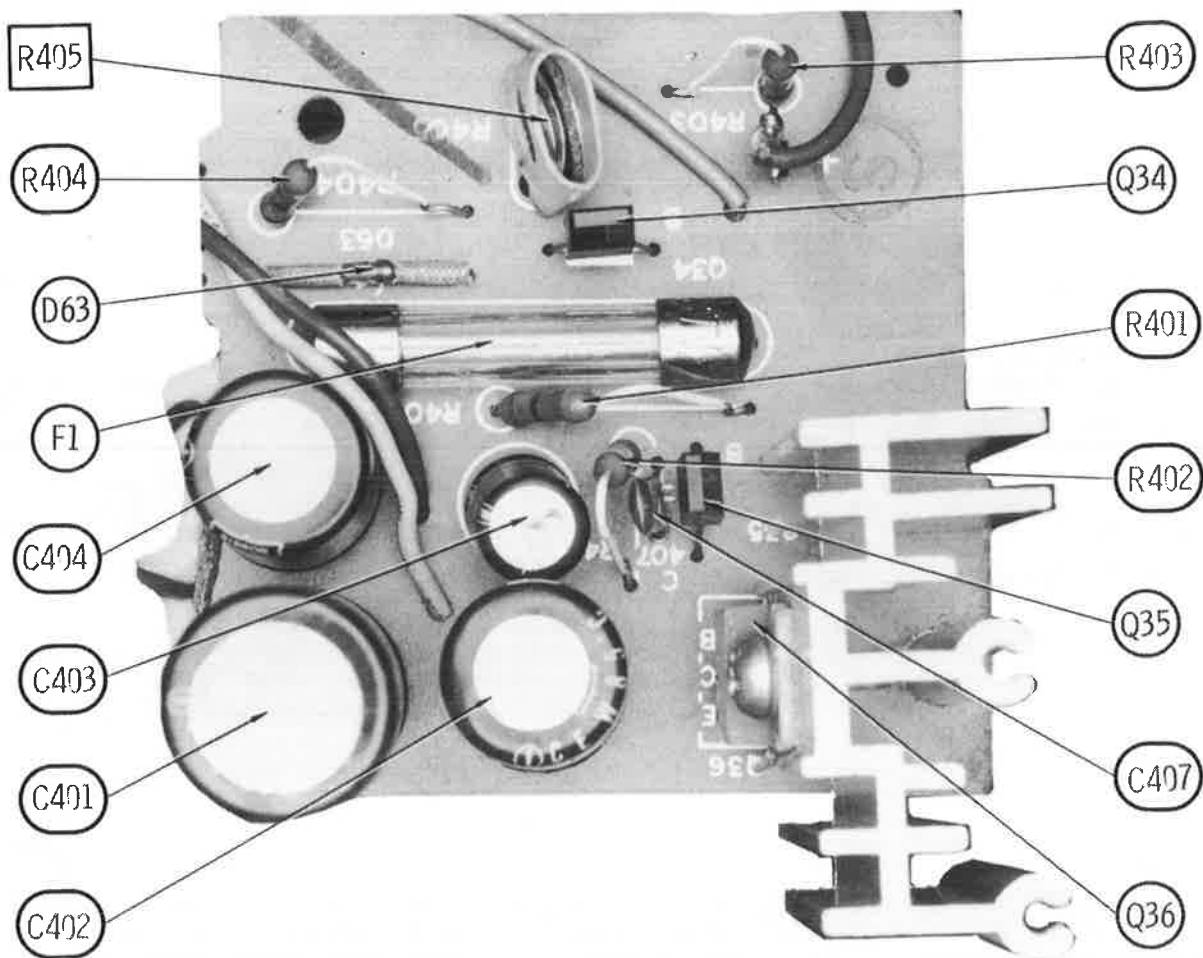
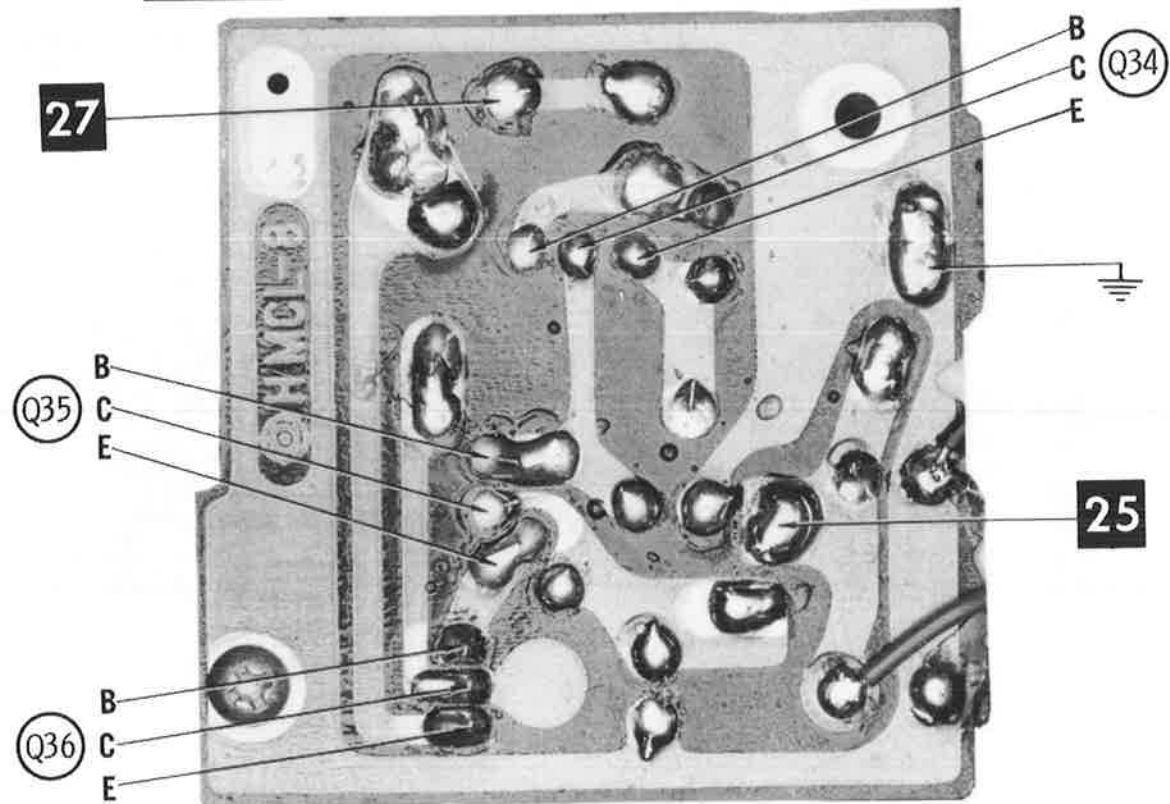
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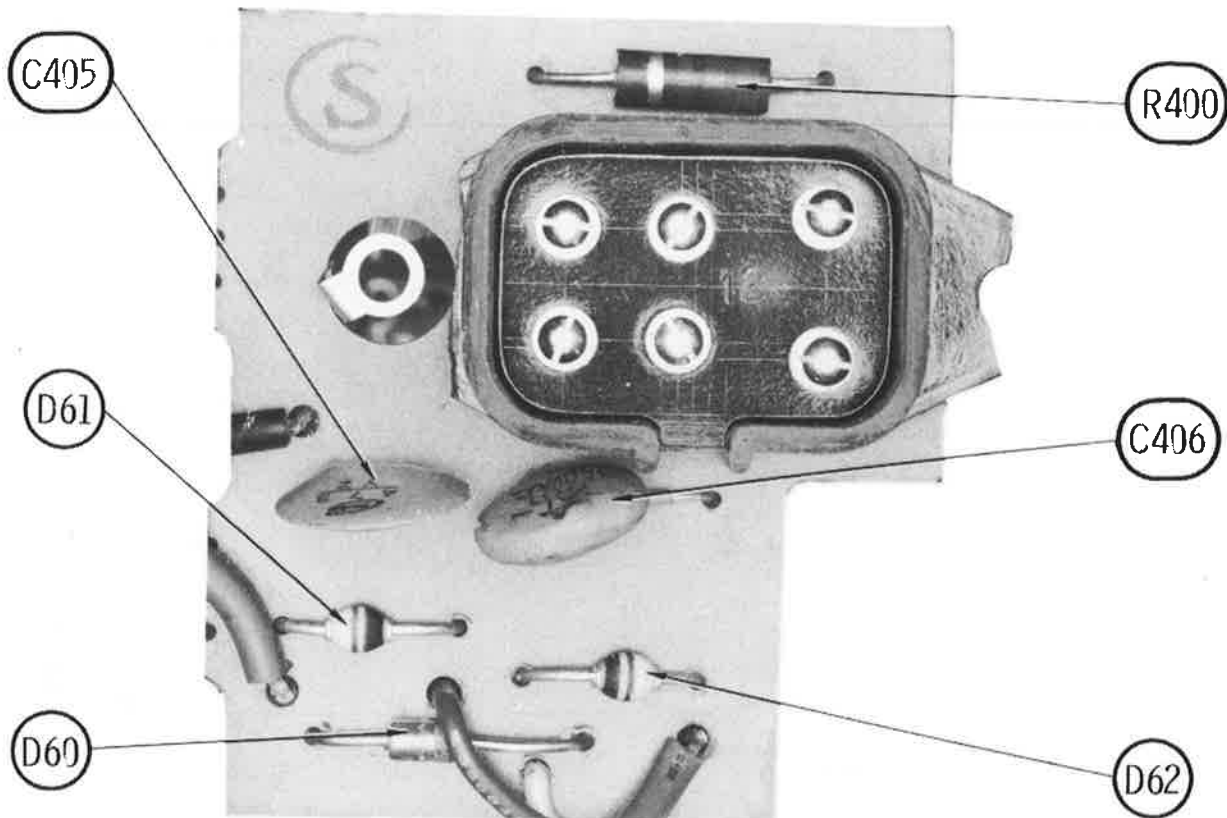
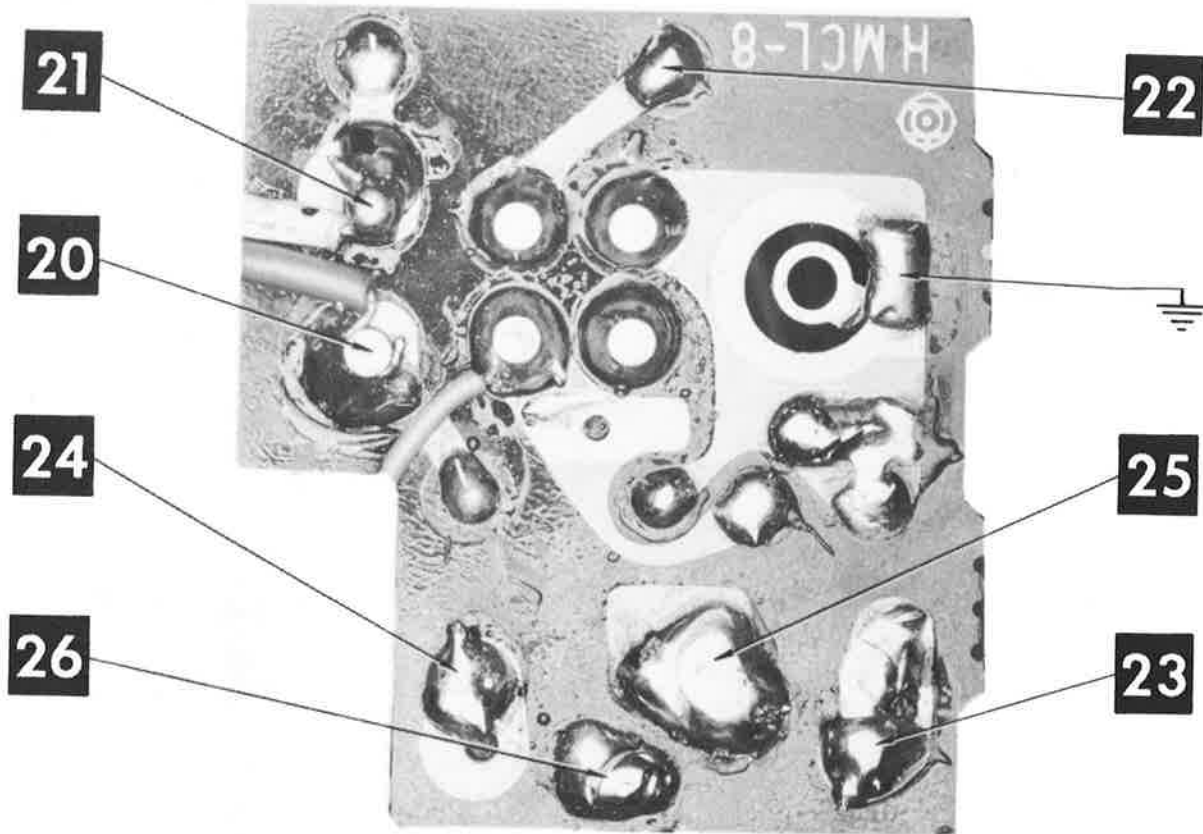
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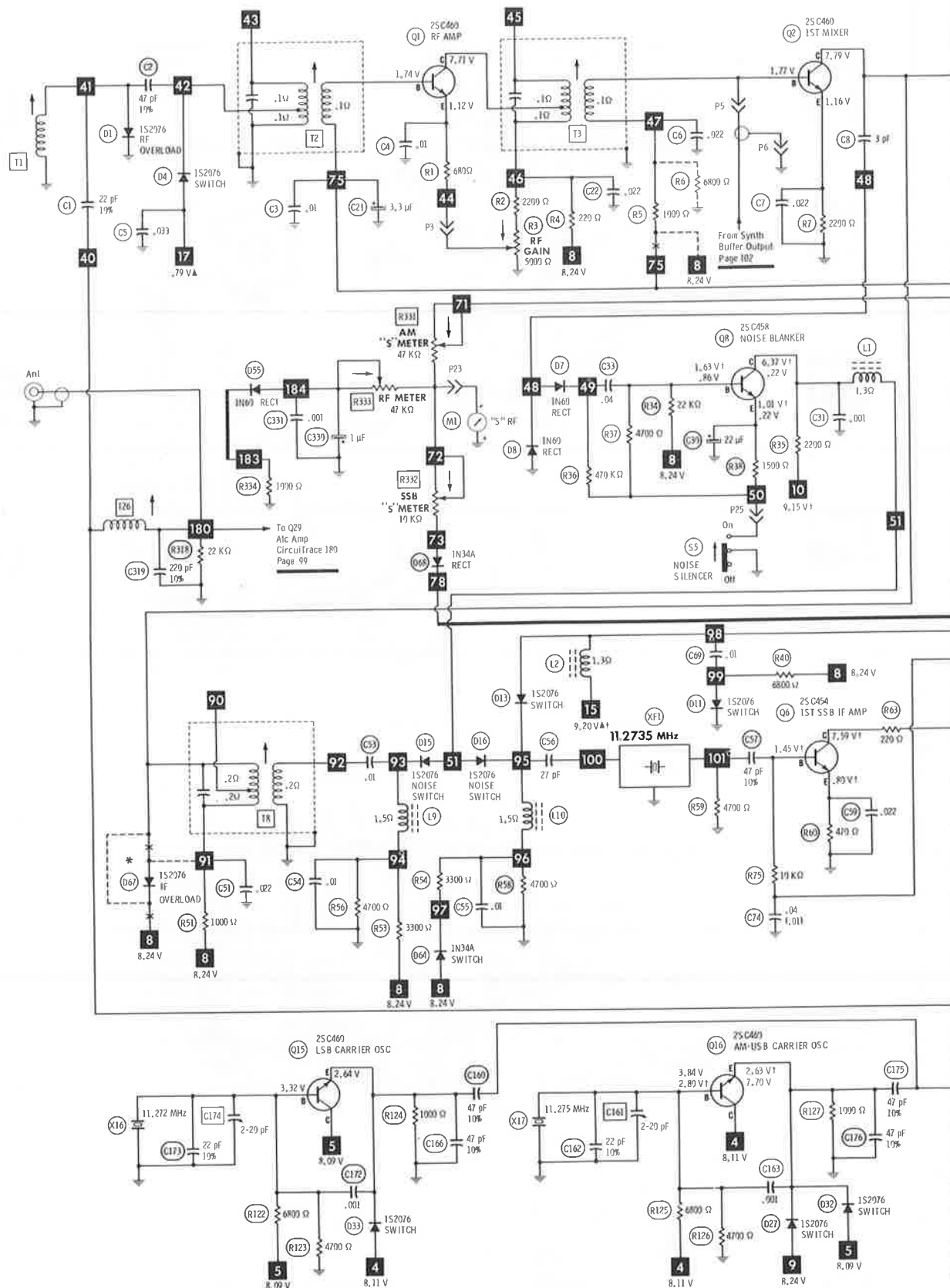
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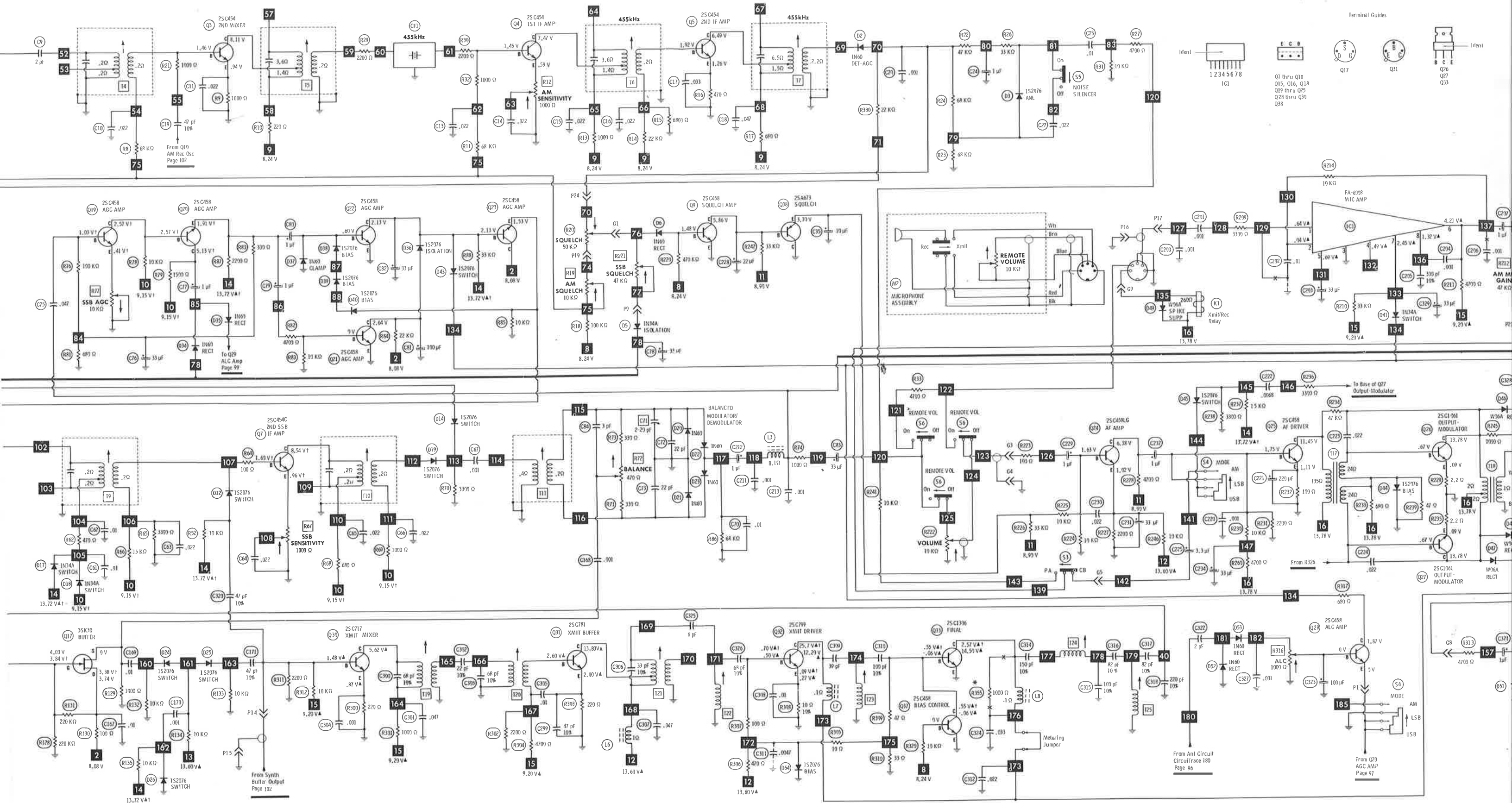


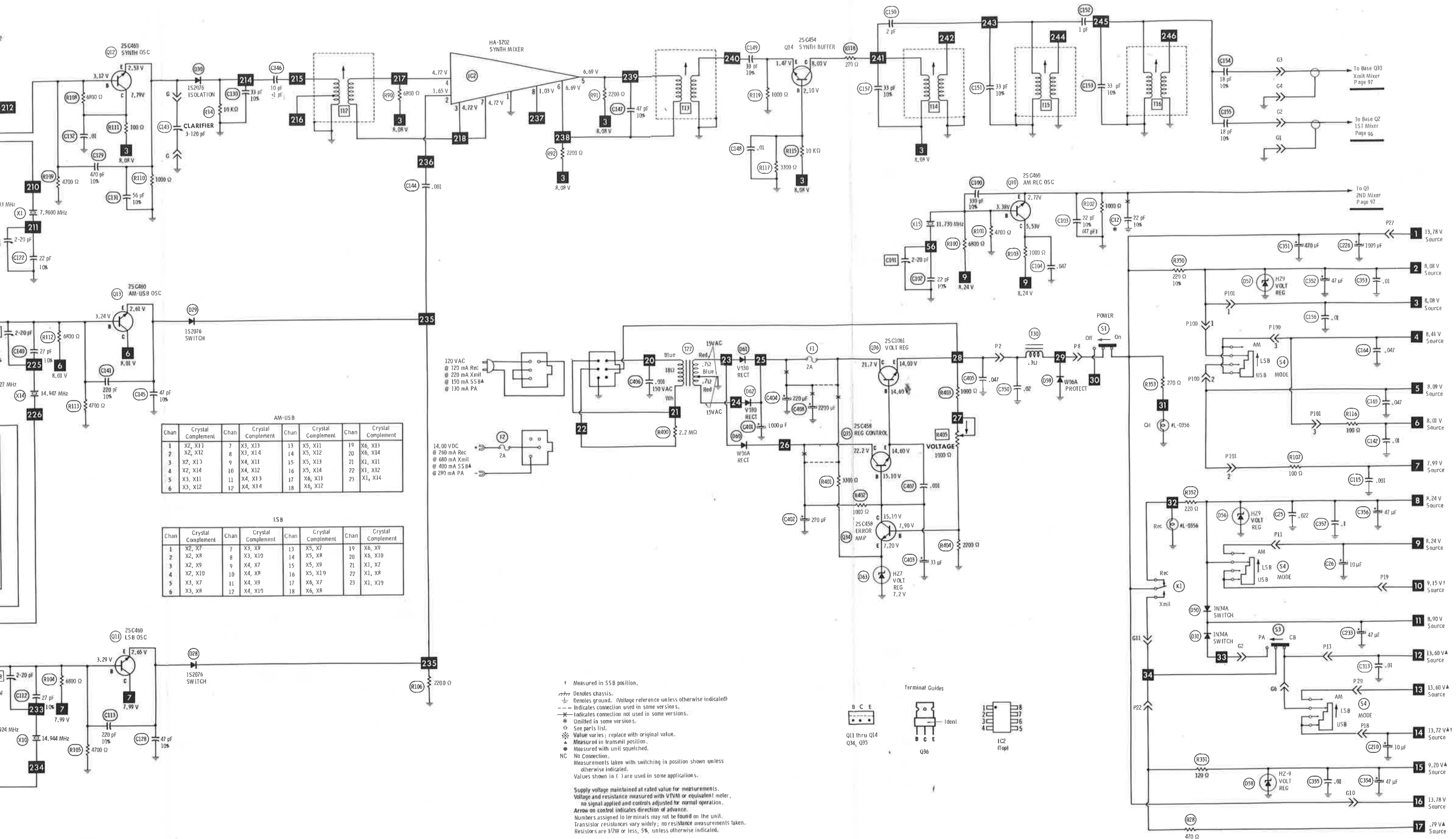




A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CircuitTrace**
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SEE NOTES ON PAGE 101





PARTS LIST AND DESCRIPTION

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

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 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) 8496 3-Conductor, 1 Shielded, for Press-to-Talk (Vinyl)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 In.)

SEMICONDUCTORS

ITEM No.	TYPE / MFG. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D2	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D3	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D4	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D5	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D6	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D7	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D8	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D11	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D12	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D13	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D14	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D15	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D16	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D17	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D18	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D19	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D20	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D21	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D22	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D23	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D24	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D25	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D26	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D27	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D28	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D29	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D30	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D31	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D32	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D33	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D34	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D35	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D36	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D37	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D38	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D39	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D40	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D41	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D42	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D43	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D44	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D45	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D46	W06A	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D47	W06A	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D48	W06A	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D49	W06A	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D50	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D51	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D52	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D53	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D54	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D55	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D56	HZ-9 (9 V Zener)	GEZD-9.1	Z1208	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D57	HZ-9 (9 V Zener)	GEZD-9.1	Z1208	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D58	HZ-9 (9 V Zener)	GEZD-9.1	Z1208	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D59	W06A	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D60	W06A	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D61	VO3C	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D62	VO3C	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D63	HZ-7 (7 V Zener)		Z1206	ZB6.8	HEPZ0409			ECG 117
D64	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D67	1S2076	GE-300	D200	PTC214	HEPRO602	SK3100	RT218	ECG 177
D68	1N34A	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
IC1	FA6008T							
IC2	HA-1202							

REALISTIC MODEL TRC-46

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (cont)

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q1	2SC460C	GE-11	TR-24	PTC121	HEP53	SK3018	RT108	ECG 108
Q2	2SC460C	GE-11	TR-24	PTC121	HEP53	SK3018	RT108	ECG 108
Q3	2SC454C	GE-20	TR-21	PTC136	HEP53	SK3018	RT102	ECG 123A
Q4	2SC454C	GE-20	TR-21	PTC136	HEP53	SK3018	RT102	ECG 123A
Q5	2SC454C	GE-20	TR-21	PTC136	HEP53	SK3018	RT102	ECG 123A
Q6	2SC454C	GE-20	TR-21	PTC136	HEP53	SK3018	RT102	ECG 123A
Q7	2SC454C	GE-20	TR-21	PTC136	HEP53	SK3018	RT102	ECG 123A
Q8	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q9	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q10	2SC460C	GE-11	TR-24	PTC121	HEP53	SK3018	RT108	ECG 108
Q11	2SC460C	GE-11	TR-24	PTC121	HEP53	SK3018	RT108	ECG 108
Q12	2SC460C	GE-11	TR-24	PTC121	HEP53	SK3018	RT108	ECG 108
Q13	2SC460C	GE-11	TR-24	PTC121	HEP53	SK3018	RT102	ECG 123A
Q14	2SC454C	GE-20	TR-21	PTC136	HEP53	SK3018	RT108	ECG 108
Q15	2SC460C	GE-11	TR-24	PTC121	HEP53	SK3018	RT108	ECG 108
Q16	2SC460C	GE-11	TR-24	PTC121	HEP53	SK3018	RT108	ECG 108
Q17	3SK30				HEPF2005	SK3116		ECG 220
Q18	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q19	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q20	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q21	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q22	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q23	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q24	2SC458(LG)D	GE-20	TR-24	PTC136	HEP53	SK3124	RT102	ECG 123A
Q25	2SC458D	GE-20	TR-24	PTC136	HEP53	SK3124	RT102	ECG 123A
Q26	2SC1061T(B)	GE-28	IRTR-92	PTC110	HEP55003	SK3054	RT154	ECG 186
Q27	2SC1061T(B)	GE-28	IRTR-92	PTC110	HEP55003	SK3054	RT154	ECG 186
Q28	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q29	2SC458D	GE-20	IRTR-51	PTC136	HEP53	SK3124	RT102	ECG 123A
Q30	2SC717	GE-17	IRTR-62	PTC101	HEP720	SK3039	RT107	ECG 108
Q31	2SC781		IRTR-87		HEP53001	SK3048		ECG 195
Q32	2SC799		IRTR-65		HEP53002	SK3049		ECG 195
Q33	2SC1306	GE-28	IRTR-55	PTC110	HEP53023	SK3054	RT154	ECG 186
Q34	2SC458D	GE-20	IRTR-92	PTC110	HEP55003	SK3054	RT154	ECG 186
Q35	2SC458D	GE-20	IRTR-92	PTC110	HEP55003	SK3054	RT154	ECG 186
Q36	2SC1061C	GE-66	IRTR-92	PTC110	HEP245	SK3054	RT150	ECG 152
Q37	2SC458D	GE-20	IRTR-92	PTC110	HEP55003	SK3054	RT154	ECG 186
Q38	2SA673B	GE-21	IRTR-88	PTC103	HEP242	SK3114	RT103	ECG 159

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.
C21	3.3 25 V		RME-A-H-003	EP30-5	PC5-50	VTT3R3A50	EV-1618
C24	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C26	10 2 V		RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C30	22 10 V		ME-2-D-020	EP15-25	PC20-50	VTT22A16	EV-1224
C76	33 6 V		ME-2-B-035	EP6-25	PC30-25	VTT33A10	EV-1125
C77	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C78	33 25 V		ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C79	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C80	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C81	100 16 V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C82	33 25 V		ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C83	3.3 25 V		RME-A-H-003	EP30-5	PC5-50	VTT3R3A50	EV-1618
C203	33 6 V		ME-2-B-035	EP6-25	PC30-25	VTT33A10	EV-1125
C207	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C209	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C210	10 25 V		RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C212	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C221	220 10 V		ME-6-D-200	EP15-250	PC200-10	MTV200DB10	EV-1140
C225	3.3 25 V		RME-A-H-003	EP30-5	PC5-50	VTT3R3A50	EV-1618
C226	1000 25 V		RME-P-G-1000	EP30-1000	WBR1000-25	MTA1000G25	EV-1360
C227	470 25 V		RME-N-G-500	EP30-500	WBR500-25	MTA500G25	EV-1350
C228	22 10 V		ME-2-D-020	EP15-25	PC20-50	VTT22A16	EV-1224
C229	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C231	33 16 V		ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C232	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C233	47 16 V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C234	3.3 25 V		RME-A-H-003	EP30-5	PC5-50	VTT3R3A50	EV-1618
C235	10 25 V		RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C321	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C323	100 16 V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C328	47 16 V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C329	33 25 V		ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C330	1 25 V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C351	470 16 V		RME-L-E-500	EP15-500	PC500-16	MTV500DN15	EV-1250
C352	47 16 V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C354	46 16 V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C356	46 16 V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C401	1000 25 V		RME-P-G-1000	EP30-1000	WBR1000-25	MTA1000G25	EV-1360
C402	220 25 V		ME-G200	EP30-250	PC200-35	MTV200DE25	EV-1340
C403	33 25 V		ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C404	220 25 V		ME-G200	EP30-250	PC200-35	MTV200DE25	EV-1340
C408	2200 16 V		ME-G2000	EA15-2000	WBR2000-16	TC1520C	TVA-1175.3

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

REALISTIC MODEL TRC-46

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C2	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C3	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C4	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C5	.033		CCD-203	CK-303	MGP02	GP130	TG-S30
C6	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C7	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C8	3						
C9	2						
C10	.022		CCD-203	DTZ-2R2	NP02P2	CN0522	10TCC-V30
C11	.022		CCD-203	CK-203	MGP02	TA120	10TCC-V22
C12	22		CCD-203	CK-203	MGP02	TA120	TG-S20
C13	.022		CCTO-200	DTZ-20	NP020	CN0420	TG-S20
C14	.022		CCD-203	CK-203	MGP02	TA120	10TCC-Q20
C15	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C16	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C17	.033		CCD-203	CK-303	MGP02	TA120	TG-S20
C18	.047		CCD-503	CK-503	MGP05	GP130	TG-S30
C19	47		CCTO-470	DTZ-47	NP047	TA150	TG-S50
C20	.001		CCD-102	DD-102	GP1000	CN0447	10TCC-Q47
C22	.022		CCD-203	CK-203	MGP02	SM210	2SS-D10
C23	.01		CCD-103	CK-103	MGP01	TA120	TG-S20
C25	.022		CCD-203	CK-103	MGP01	TA110	TG-S10
C27	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C31	.001		CCD-203	CK-203	MGP02	TA120	TG-S20
C33	.04		CCD-102	DD-102	GP1000	SM210	2SS-D10
C51	.022		CCD-203	CK-203	MGP02	GP140	TG-S20
C53	.01		CCD-103	CK-103	MGP01	TA120	TG-S10
C54	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C55	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C56	27		CCTO-270		NP027	TA110	TG-S10
C57	47		CCTO-470	DTZ-47	NP047	CN0427	10TCC-Q27
C59	.022		CCD-203	CK-203	MGP02	CN0447	10TCC-Q47
C61	.01		CCD-103	CK-103	MGP02	TA120	TG-S20
C62	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C63	.022		CCD-203	CK-203	MGP01	TA110	TG-S10
C64	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C65	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C66	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C67	.001		CCD-203	CK-203	MGP02	TA120	TG-S20
C69	.01		CCD-102	DD-102	GP1000	SM210	2SS-D10
C70	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C71	2-20	C-0431	CCD-103	CK-103	MGP01	TA110	TG-S10
C72	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C73	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C74	.04			DD-403		GP140	
C75	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C84	3						
C100	330		CCD-331	DD-331	GP330		10TCC-V30
C101	2-20	C-0431				GP333	10TS-T33
C102	22		CCTO-200	DTZ-20	NP020		
C103	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C104	.047		CCD-503	CK-503	MGP05	CN0420	10TCC-Q20
C105	2-20	C-0536				TA150	TG-S50
C106	2-20	C-0536					
C107	2-20	C-0536					
C108	2-20	C-0536					
C109	27		CCTO-270		NP027	CN0427	10TCC-Q27
C110	27		CCTO-270		NP027	CN0427	10TCC-Q27
C111	27		CCTO-270		NP027	CN0427	10TCC-Q27
C112	27		CCTO-270		NP027	CN0427	10TCC-Q27
C113	220		CCD-201	DD-201	GP200	CN0427	10TCC-Q27
C115	.01		CCD-103	CK-103	MGP01	GP320	10TS-T20
C116	2-20	C-0457				TA110	TG-S10
C117	2-20	C-0457					
C118	2-20	C-0457					
C119	2-20	C-0457					
C120	2-20	C-0457					
C121	2-20	C-0457					
C122	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C123	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C124	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C125	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C126	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C127	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C128	47		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C129	470		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C130	33		CCD-471	DD-471	GP470	GP347	10TS-T47
C131	56		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C132	.01		CCD-103	CK-103	MGP01	CN0456	10TCC-Q56
C133	2-20	C-0536				TA110	TG-S10
C134	2-20	C-0536					
C135	2-20	C-0536					
C136	2-20	C-0536					
C137	27		CCTO-270		NP027	CN0427	10TCC-Q27
C138	27		CCTO-270		NP027	CN0427	10TCC-Q27
C139	27		CCTO-270		NP027	CN0427	10TCC-Q27
C149	27		CCTO-270		NP027	CN0427	10TCC-Q27
C141	220		CCD-221	DD-221	GP220	CN0427	10TCC-Q27
C142	.01		CCD-103	CK-103	MGP01	GP322	10TS-T22
C143	3-120	C-4478				TA110	TG-S10
C144	.001		CCD-102	DD-102	GP1000		
C145	47		CCTO-470	DTZ-47	NP047	SM210	2SS-D10
C146	10		CCTO-100	DTZ-10	NP010	CN0447	10TCC-Q47
						CN0410	10TCC-Q10

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/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C147	47	C-0431	CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C148	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C149	33		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C150	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C151	33		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C152						CN0510	10TCC-V10
C153	33		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C154	18		CCTO-180		NP018	CN0418	10TCC-Q18
C155	18		CCTO-180		NP018	CN0418	10TCC-Q18
C156	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C157	33		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C158	4				NP03P9		10TCC-V39
C160	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C161	2-20						
C162	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C163	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C164	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C165	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C166	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C167	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C168	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C169	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C170	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C171	47	C-0431	CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C172	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C173	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C174	2-20						
C175	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C176	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C200	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C201	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C202	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C204	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C205	330		CCD-331	DD-331	GP330	GP333	10TS-T33
C206	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C211	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C213	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C220	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C222	.022		CCD-682	DD-682	JF268		10TS-D68
C223	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C224	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C230	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C299	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C300	68			DTZ-68		CN0468	10TCC-Q68
C301	.047	C-0431	CCD-503	CK-503	MGP05	TA150	TG-S50
C302	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C303	68			DTZ-68		CN0468	10TCC-Q68
C304	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C305	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C306	33		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C307	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C308	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C309	39					CN0439	10TCC-Q39
C310	100		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C311	.0047		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C312	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C313	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C314	150		CCD-151	DD-151	GP150	GP315	10TS-T15
C315	100		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C316	82		CCTO-820	DTZ-82	NP082	CN0482	10TCC-Q82
C317	82		CCTO-820	DTZ-82	NP082	CN0482	10TCC-Q82
C318	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C319	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C320	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C322	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C324	.033	C-0431	CCD-203	CK-303		GP130	TG-S30
C325	6						10TCC-V56
C326	68			DTZ-68		CN0468	10TCC-Q68
C327	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C331	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C350	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C353	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C355	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C357	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C405	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C406	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C407	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R3	RF Gain	5000	P-6040	TSV-1K (4) or	C-102 (4)	X201R102B (4)	MTC13L1 (4)
R12	AM Sensitivity	1000		T-1000 (4)			
R19	AM Squelch	10 K	P-0652	TSV-10K (4) or	C-103 (4)	X201R103B (4)	MTC14L1 (4)
				T-10K (4)			
R20	Squelch	50 K	P-1242	TSV-1K (4) or	C-102 (4)	X201R102B (4)	MTC13L1 (4)
R67	SSB Sensitivity	1000	P-6040	T-1000 (4)			
R72	Balance	470	P-0708	TSV-500 (4) or	C-501 (4)	X201R501B (4)	MTC52L1 (4)
				T-500 (4)			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS—IRC PART No.	MALLORY PART No.
R77	SSB AGC	10 K	P-0652	TSV-10K (4) or T-10K (4)	C-103 (4)	X201R103B (4)	MTC14L1 (4)
R212	AM Mic Gain	47 K	P-6086	TSV-50K (4) or T-50K (4)	C-503 (4)	X201R503B (4)	MTC54L1 (4)
R213	SSB Mic Gain	10 K	P-0652	TSV-10K (4) or T-10K (4)	C-103 (4)	X201R103B (4)	MTC14L1 (4)
R221	SSB Squelch	47 K	P-6086	TSV-50K (4) or T-50K (4)	C-503 (4)	X201R503B (4)	MTC54L1 (4)
R222	Volume	10 K	P-0709	F2-10K (1), SSK014	A47-10K-Z (1), KSS-3 or [NP-10K-Z (1), UPC-C-014]	BU1 (1), CF61, SS1, DC1	RU14A, SL36, SK1000 or [UA14A (1), SK1000]
R316	ALC	1000	P-6040	TSV-1K (4) or T-1000 (4)	C-102 (4)	X201R102B (4)	MTC13L1 (4)
R331	AM "S" Meter	47 K	P-6086	TSV-50K (4) or T-50K (4)	C-503 (4)	X201R503B (4)	MTC54L1 (4)
R332	SSB "S" Meter	10 K	P-0652	TSV-10K (4) or T-10K (4)	C-103 (4)	X201R103B (4)	MTC14L1 (4)
R333	RF Meter	47 K	P-6086	TSV-50K (4) or T-50K (4)	C-503 (4)	X201R503B (4)	MTC54L1 (4)
R405	Voltage	1000	P-0710	TSV-1K (2) or T-1000 (2)	C-102 (2)	X201R102B (2)	MTC13L1 (2)
	Remote Volume	10 K (19)		B16-116			

(1) Enlarge mounting hole.

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

(4) Modify terminals to fit PC board.

(19) Part of Microphone Assembly

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.
R229	2.2 (1/2W Carbon)			R235	2.2 (1/2W Carbon)		

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	REMARKS
L1	RF Choke (22 uH)	CA-2765			
L2	RF Choke (22 uH)	CA-2765			
L3	Peaking (220 uH)	CA-2764			
L6	RF Choke (4.7 uH)	CB-2139			
L7	RF Choke (1 uH)	CB-2140			
L8	RF Choke (1 uH)	CB-2140			
L9	Peaking (33 uH)	CB-2141			
L10	Peaking (33 uH)	CB-2141			
T1	Antenna Matching	CA-2091			
T2	Antenna Input	CA-6260			
T3	RF	CA-5081			
T4	11 MHz 1st Mixer	CA-6265			
T5	455 kHz Input IF	CA-7168			
T6	455 kHz Interstage IF	CA-6266			
T7	455 kHz Output IF	CA-7169			
T8	11 MHz SSB Input IF	CA-6265			
T9	11 MHz SSB 1st IF	CA-6265			
T10	11 MHz SSB 2nd IF	CA-6265			
T11	11 MHz SSB Output IF	CA-7171			
T12	23 MHz Synthesizer Osc.	CA-2523			
T13	38 MHz Synthesizer Mixer	CA-7172			
T14	38 MHz Buffer	CA-7172			
T15	38 MHz Buffer	CA-7172			
T16	38 MHz Buffer	CA-7172			
T19	27 MHz Xmit Mixer Input	CA-2093			
T20	27 MHz Xmit Mixer Output	CA-2093			
T21	27 MHz Xmit Buffer Input	CA-2529			
T22	27 MHz Xmit Buffer Output	CA-2091			
T23	27 MHz Xmit Driver	CA-2530			
T24	27 MHz Xmit Final Amp	CA-2530			
T25	27 MHz Xmit Final Amp	CA-2529			
T26	27 MHz Xmit Final Amp	CA-2530			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T30	680 mA	.3	2.8 mH	CB-2028				

CHOKE (Audio Output)

ITEM No.	INDUCTANCE	REPLACEMENT DATA				NOTES
		MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T29	2.8 mH	CB2028				

REALISTIC MODEL TRC-46

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.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
T17	25	1 CT		TD0014				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T18	32	8	TD0081				

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T27	120 VAC @ 220 mA	30 VAC @ 310 mA	TA-0347				

SPEAKER

ITEM No.	TYPE		REPLACEMENT DATA		NOTES
			MFGR. PART No.	QUAM PART No.	
SP1	3" x 5"	PM 8 ohms	S-4360	35AD5Z8	

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
F1	2 A @ 125 V, Quick Acting	HF-0043						
F2	1 A @ 125 V, Quick Acting	HF-001						

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	R-8048	(Rec-Xmit)
CF1	Ceramic Filter	CA-2762	(455 kHz)
S1	Switch	S-7092	Power
S2	Switch	S-1043	Poannel Selector
S3	Switch	S-7092	PA-CB
S4	Switch	S-2139	Mode
S5	Switch	S-7092	Noise Silencer
S6	Switch	S-7092	Remote Volume
X1	Crystal	5780161	7.860000 MHz
X2	Crystal	5780162	7.776666 MHz
X3	Crystal	5780163	7.793333 MHz
X4	Crystal	5780164	7.810000 MHz
X5	Crystal	5780164	7.810000 MHz
X6	Crystal	5780165	7.826666 MHz
X7	Crystal	5780171	14.904 MHz
X8	Crystal	5780172	14.914 MHz
X9	Crystal	5780173	14.924 MHz
X10	Crystal	5780174	14.944 MHz
X11	Crystal	5780175	14.907 MHz
X12	Crystal	5780176	14.917 MHz
X13	Crystal	5780177	14.927 MHz
X14	Crystal	5780178	14.947 MHz
X15	Crystal	5780167	11.730 MHz
X16	Crystal	5780168	11.272 MHz
X17	Crystal	5780169	11.275 MHz
XF1	Crystal Filter	CA-2763 (5161011)	11.2735 MHz

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

ITEM	PART No.	ITEM	PART No.
Cover, Top	Z-1066	Push Button, Power, Remote Volume,	
Cover, Bottom	Z-1067	PA, Noise Silencer	K-1181
Knob, Channel	K-1180	Knob, RF Gain-Squelch	K-1182
Knob, Volume-Clarifier-Mode	K-1179	Escutcheon Plate	Z-10656

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	M-2210	
DC Power Cord	W-1461	
AC Power Cord	W-1493	