

SAMS PHOTOFACT[®] CB RADIO SERIES



CB-40
40
JUNE 1972



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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 6423

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

GC ELECTRONICS

A1, A2, A3, A4 & A6 #8868, 9089

A5, A7, A8, A19, A10, A11 & A12 .. #8606L, 9440

RECEIVER

Connect an AC VTVM across speaker voice coil. Turn Volume control fully clockwise and Squelch control fully counterclockwise.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side through .01mfd to base of Q4 (2nd Mixer), low side to ground. Tune to 455KC (Mod).	Any	A1,A2,A3	Adjust for maximum.
High side through .01mfd to antenna connector, low side to ground. Tune to channel frequency	(1)	A4 thru A7	(1) Check crystal (M3 and M6 or M4 and M7) frequencies and set generator accordingly. Adjust for maximum.

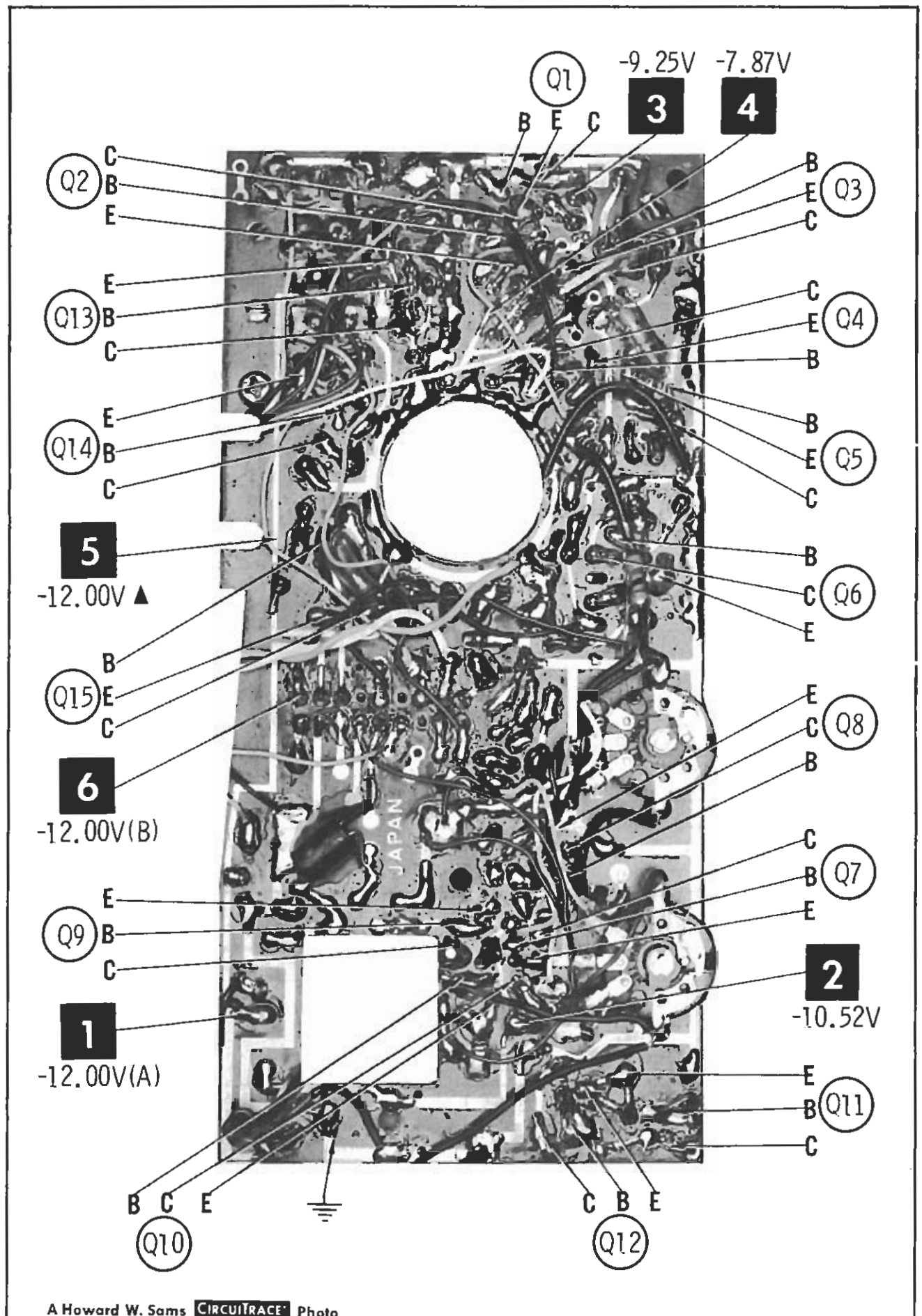
TRANSMITTER

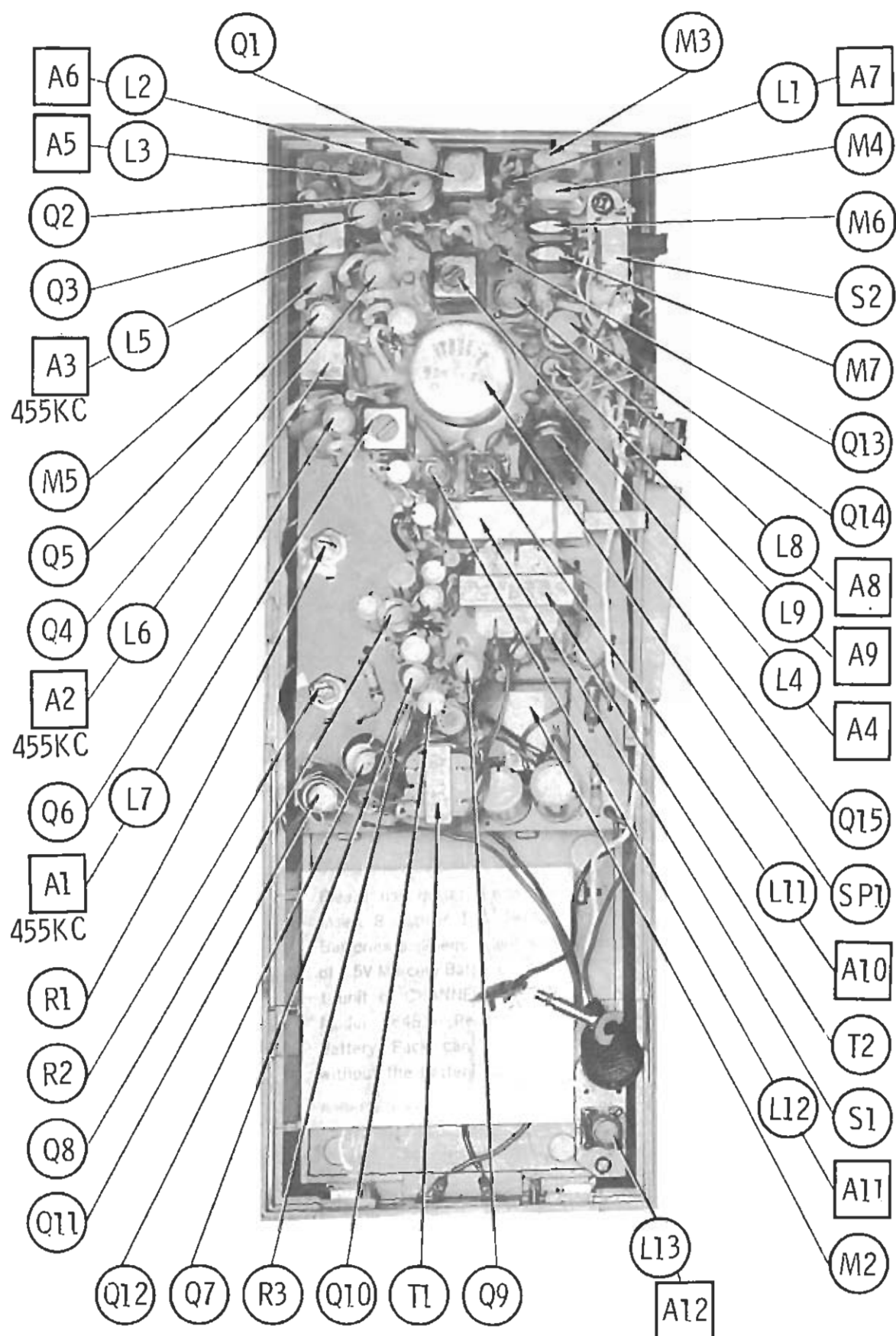
INDICATOR	ADJUST	REMARKS
RF wall meter or field strength meter.	A8 thru A12	Adjust for maximum.

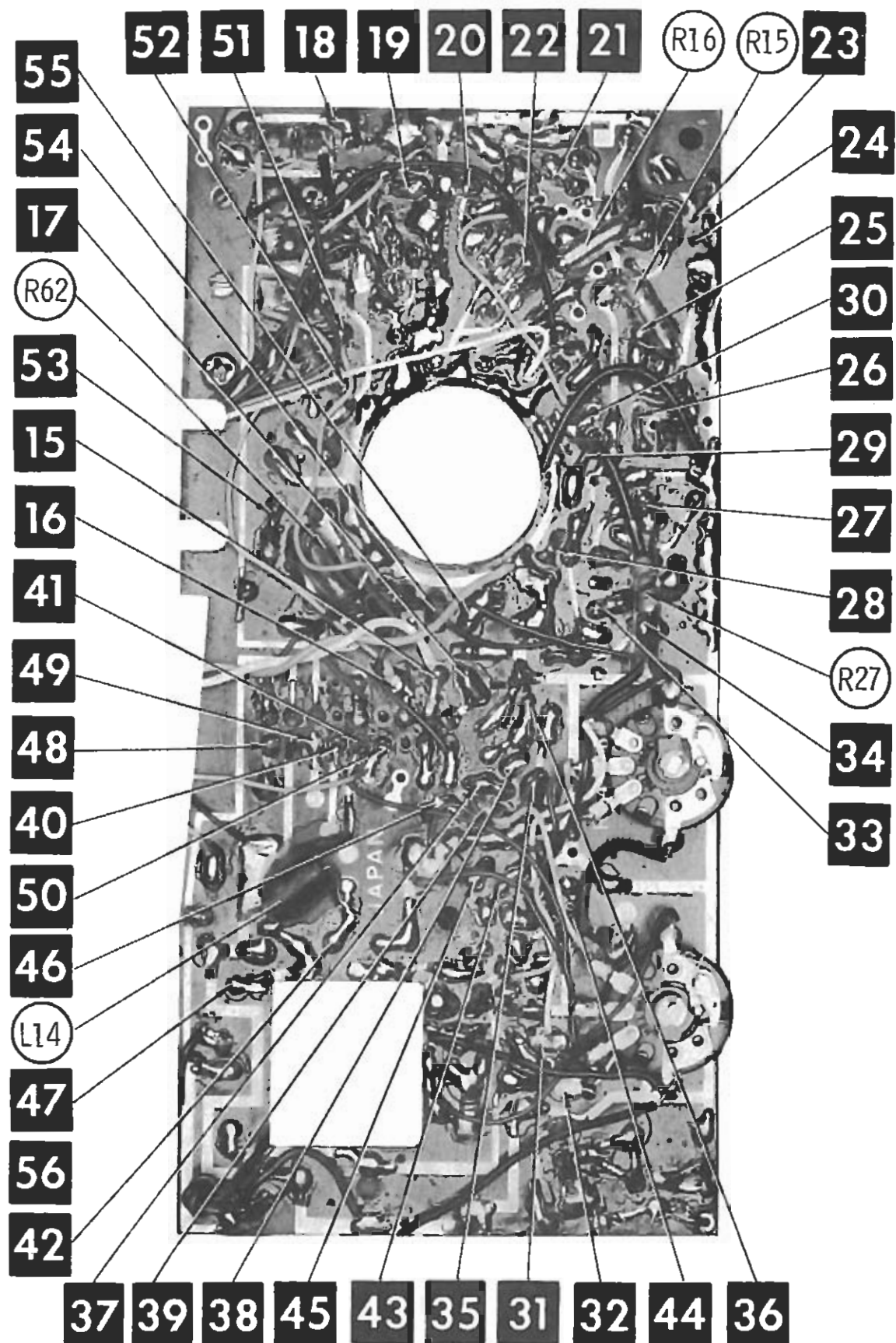
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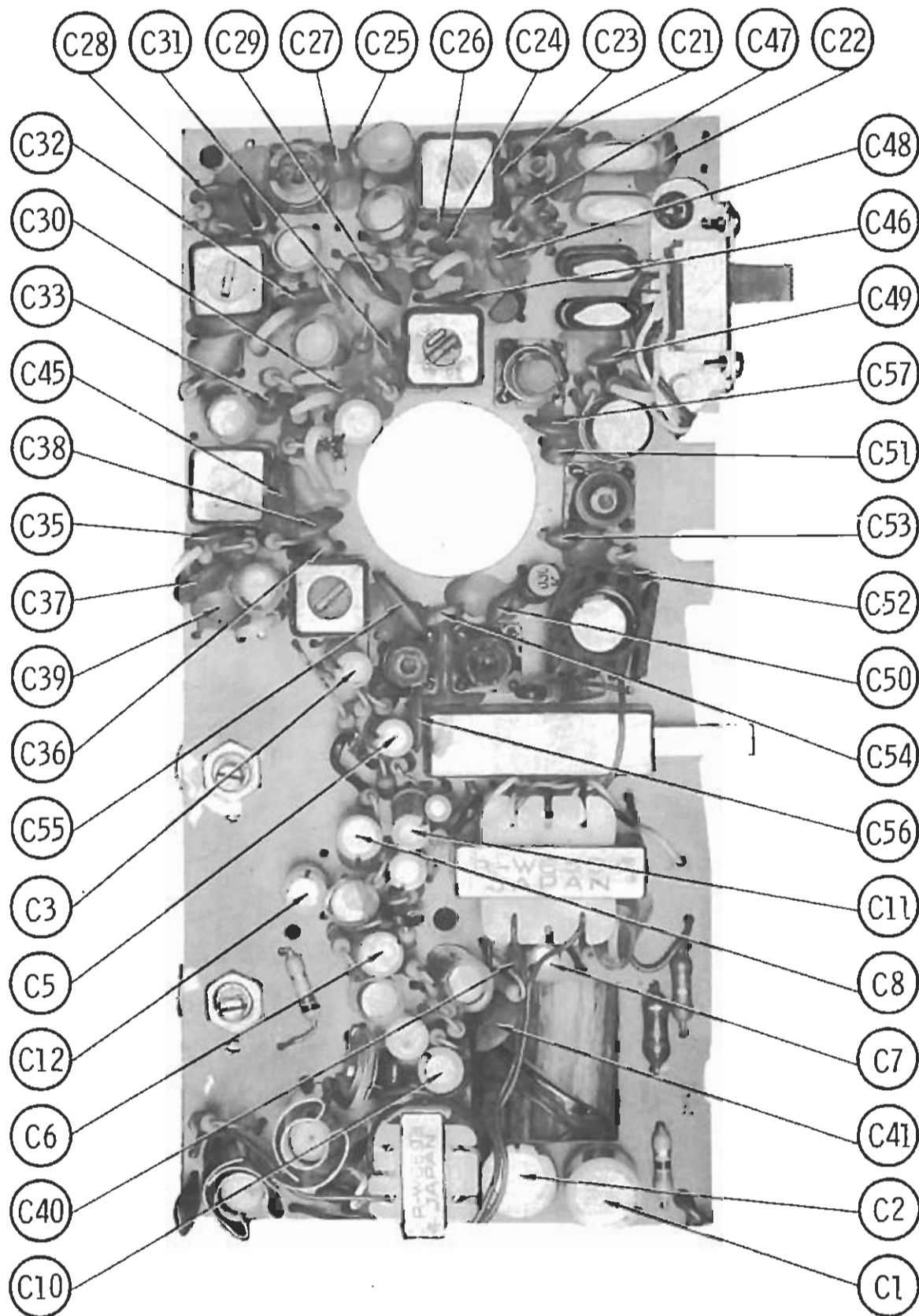
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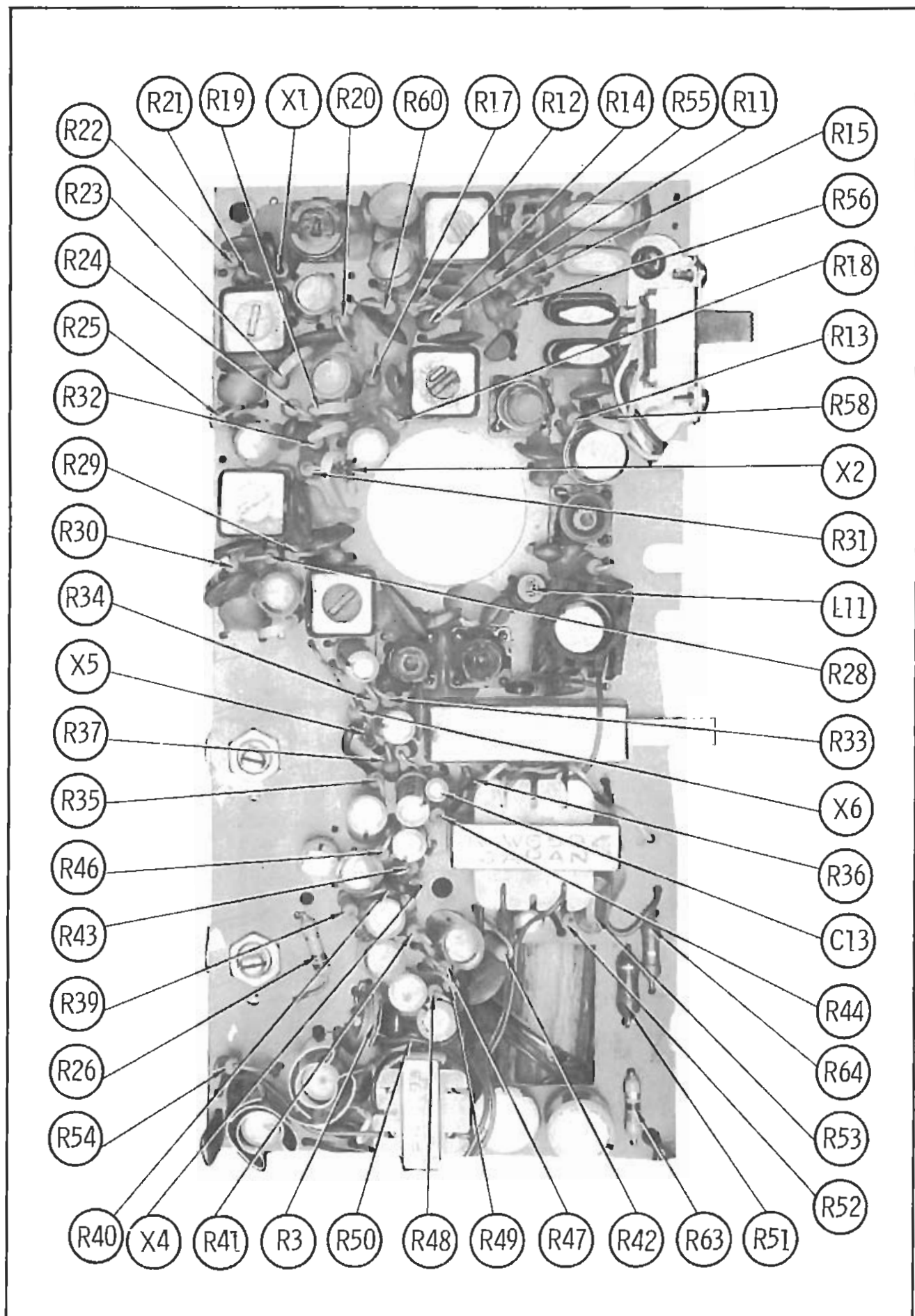
CHANNEL MASTER MODEL 6423











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.	8499 Single-Conductor Shielded (Neoprene)
		8498 Single-Conductor Shielded (Vinyl)
Ignition Noise Suppression	Use BELDEN No.	7302-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No.	8661 (3/8 In.)

SEMICONDUCTORS

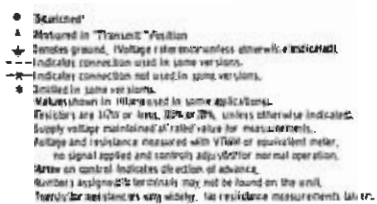
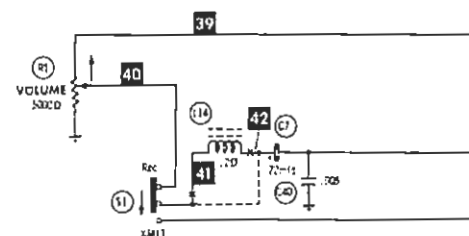
ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA					
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	MOTOROLA PART No.
Q1	2SA222	D073	GE-1		PTC107	SK3008	ECG 160	HEP637
Q2	2SB186	D030	GE-2			SK3004	ECG 102A	HEP633
Q3	2SA222	D073	GE-1		PTC107	SK3008	ECG 160	HEP637
Q4	2SA222	D073	GE-1		PTC107	SK3008	ECG 160	HEP637
Q5	2SA202A	D020	GE-9	TR-17	PTC107	SK3008	ECG 126	HEP253
Q6	2SA2038	D021	GE-9	TR-17	PTC107	SK3008	ECG 102A	HEP253
Q7	2SB186	D030	GE-2			SK3004	ECG 102A	HEP633
Q8	2SB186	D030	GE-2			SK3004	ECG 102A	HEP633
Q9	2SB186	D030	GE-2			SK3004	ECG 102A	HEP633
Q10	2SB187	D018	GE-53	TR-05		SK3004	ECG 102A	HEP632
Q11	2SB405	D126	GE-2			SK3004	ECG 158	HEP238
Q12	2SB405	D126	GE-2			SK3004	ECG 158	HEP238
Q13	2SC815		GE-20	1RTR-62	PTC123	SK3046	ECG 123A	HEP736
	2SC424	D141		1RTR-62		SK3046	ECG 108	HEP53
Q14	2SC37		GE-17	1RTR-63		SK3047	ECG 108	HEP53
	2SC30	D069	GE-17	1RTR-63		SK3047	ECG 108	HEP53
Q15	2SC181		GE-8	1RTR-65		SK3048	ECG 103A	HEP53
	2SC290	D152		1RTR-65		SK3048	ECG 102A	HEP641
X1	1S188		1N60	1N60	PTC206	SK3088	ECG 109	
X2	1N60	J685	1N60	1N60	PTC206	SK3088	ECG 109	
X3	1S188		1N60	1N60	PTC206	SK3088	ECG 109	
X4	1S188		1N60	1N60	PTC206	SK3088	ECG 109	
X5	1N60	D093	1N60	1N60	PTC206	SK3088	ECG 109	
X6	1S188		1N60	1N60	PTC206	SK3088	ECG 109	

CHANNEL MASTER MODEL 6423

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA							
		MFR. PART No.	AEROVOX PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	100 16V	R-C9514	MCD-180	RME-E-C-100	EP15-100	WBR100-16	MT1-19	MTV100C015	TE-1162
C2	45 16V	R-C9515	MCD-130	RME-E-E-050	EP15-50	WBR50-25	MT1-16	MTV50CB15	TE-1160
C3	4.7 16V	R-C9528	MCD-50	RME-A-E-005	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1152
C4	33 6.3V	R-C9023a	MCD-110	ME-2-B-035	EP6-25	WBR35-50	MT1-13	MTV30CB25	TE-1093
C5	4.7 16V	R-C9528	MCD-50	RME-A-E-005	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1152
C6	33 6.3V	R-C9023a	MCD-110	ME-2-B-035	EP6-25	WBR35-50	MT1-13	MTV30CB25	TE-1093
C7	.22 10V	R-C9566						TOC224M050EL	1500224X0010A2
C8	33 6.3V	R-C9023a	MCD-110	ME-2-B-035	EP6-25	WBR35-50	MT1-13	MTV30CB25	TE-1093
C9	4.7 16V	R-C9528	MCD-50	RME-A-E-005	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1152
C10	33 6.3V	R-C9023a	MCD-110	ME-2-B-035	EP6-25	WBR35-50	MT1-13	MTV30CB25	TE-1093
C11	4.7 16V	R-C9528	MCD-50	RME-A-E-005	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1152
C12	33 6.3V	R-C9023a	MCD-110	ME-2-B-035	EP6-25	WBR35-50	MT1-13	MTV30CB25	TE-1093
C13	.22 10V	R-C9566						TOC224M050EL	1500224X0010A2

(CONTINUED ON PAGE 14)



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PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C21	270		GPD X5F271K	CCD-270	CD-271	GP270	GP327	10TS-T27
C22	50			CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C23	20			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C24	.005		GPD X5F102K	CCD-102	DM-102	GP1030	SM210	25S-D10
C25	.005		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	25S-D10
C26	.005		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	25S-D10
C27	30			CCTO-300	TCZ-30			10TCC-Q30
C28	.005		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	25S-D10
C29	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C30	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C31	50			CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C32	.04		TTP-05	CCO-503	CK-503	MGP05	TA150	TGL-S50
C33	2		GPD CQJ2R2K		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C35	.04		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C36	5					NP05		10TCC-V50
C37	.04		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C38	220		GPD X5F221K	CCD-221	CO-221	GP220	GP322	10TS-T22
C39	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C40	.005		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	25S-D10
C41	.04		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C42	.0047		GPD X5R472K	CCD-472	DD-472G	GP4700	JF247	10TS-047
C43	.003		GPD X5R332K	CCD-332	DD-332	GP3300	JF233	25S-033
C44	.003		GPD X5R332K	CCD-332	DD-332	GP3300	JF233	25S-033
C45	.04		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C46	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C47	30			CCTO-300	TCZ-30			10TCC-Q30
C48	20			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C49	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	25S-D10
C50	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C51	30			CCTO-300	TCZ-30			10TCC-Q30
C52	150		GPD X5F151K	CCD-151	DO-151	GP150	GP315	10TS-T15
C53	30			CCTO-300	TCZ-30			10TCC-Q30
C54	100			CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C55	270		GPD X5F271K	CCD-270	CD-271	GP270	GP327	10TS-T27
C56	220		GPD X5F221K	CCD-221	DO-221	GP220	GP322	10TS-T22
C57	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10

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

ITEM No.	FUNCTION	RESIST- ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1 R2 R3	Volume/Switch Squelch/Switch Squelch Range	5000 5000 100K	R-R116516 R-R116516	TSV-100K (1) or T-100K (1)		X201R104B (1)	MTC15L1 (1)

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

PARTS LIST AND DESCRIPTION (CONTINUED)

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

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R53	33 (Cold)	FR-31	F413 (SDT-06)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Image	RW2614			
L2	Rec. Antenna Matching	RW2528			
L3	RF	RW2594			
L4	Rec. Oscillator	RS8521			
L5	Input IF	RW5T525	16-9026	2066	
L6	Interstage IF	RW5T526	16-9027	8517	
L7	Output IF	RW5T527	16-9028	2060	
L8	Xntr. Oscillator	RW8570			
L9	Xntr. Driver	RW4511			
L10	Final	RW9514			
L11	RF Choke	RW1507		72F226AP	TB12
L12	PI Network	RW9514			
L13	Antenna Loading	RW2616			

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.	
T1	2	1 CT		RW6593				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	180	20	RW6594				
		SEC. 2					
		2.4 DC Resistance					

CHANNEL MASTER MODEL 6423

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SPI	2 1/2" PH 20 ohms	RS6313		

BATTERIES

ITEM No.	VOLTAGE	MFGR. PART No.	EVEREADY PART No.	NOTES
M1	12V		1015 or E91 or E9	8 used

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M2	Meter, Battery	RS5575	
M3	Crystal	0052	25.580MC (Ch. 7) Rec
M4	Crystal	0051	26.630MC (Ch. 11) Rec
M5	Crystal		455KC
M6	Crystal	0070	27.035MC Xmit (Ch. 7)
M7	Crystal	0050	27.085MC Xmit (Ch. 11)
S1	Switch, Xmit-Rec	RS4565	
S2	Switch, Selector	RS4303	
	Antenna	RS1571	Telescopic

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

ITEM	PART No.	ITEM	PART No.
Panel, Front	R395183	Knob, Control	R325265



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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 TWIN "T"

ALIGNMENT

Suggested Alignment Tools:

A1-A2,A3,A5,A6,A13,A18,A22,A30,A31,A32,A33,A34,A35,A36..GC ELECTRONICS #8276,8277,8290
A4,A7 thru A12, A14 thru A17, A19 thru A21, A28,A29,A43,A44..GC ELECTRONICS #8276,8277,8290
A23,A24,A25,A26,A37.....GC ELECTRONICS #8606L, 9440
A21,A38,A39,A40,A41,A42.....GC ELECTRONICS #8868, 9089

RECEIVE (AM)

Connect an AC VTVM across speaker voice coil. Set volume control fully clockwise and squelch control fully counterclockwise.

	SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
1.	High side thru .01mfd to base of Q9 (2nd mixer), low side to chassis. Tune to 455KC (Mod.)	Any	A1,A2 A3	Adjust for maximum.
2.	"	Any	A5	Connect VTVM using RF Probe, to point  and turn A5 counterclockwise until the oscillator stops, then turn clockwise one turn.
3.	High side thru .01mfd to gate of Q3 (1st Rec. Mixer), low side to chassis. Tune to 5.200MC (Mod.).	Any	A4, A6	Adjust for maximum.

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TEABERRY MODEL TWIN "T"

ALIGNMENT INSTRUCTIONS (Continued)

RECEIVE (AM) (CONTINUED)

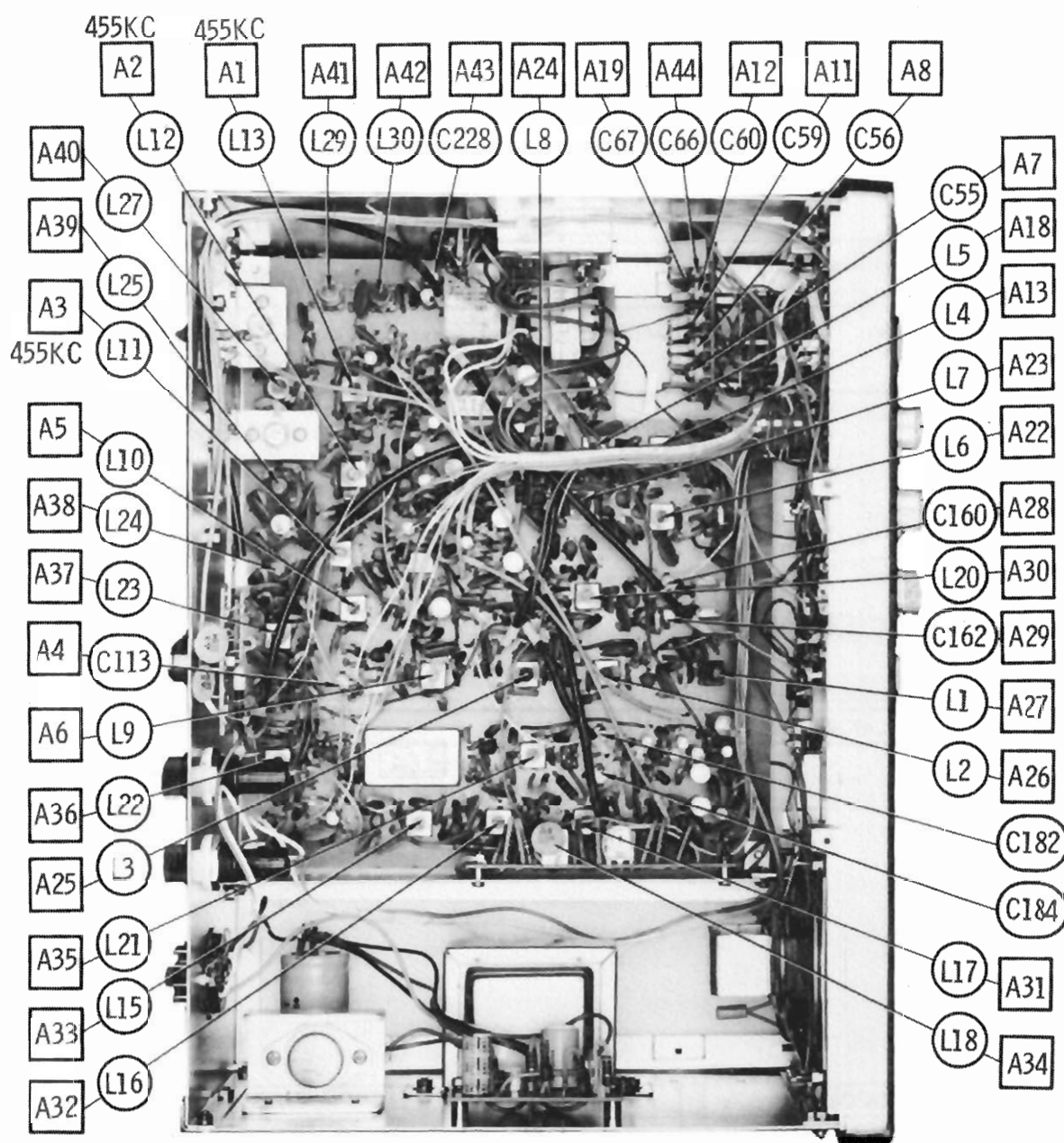
	SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
4.	High side thru .01mfd to gate of Q3 (1st Rec. Mixer) low side to chassis. Tune to 5.200MC (Mod.)	Any	A33,A32 A31	Connect VTVM using RF Probe, to point  . Adjust for maximum.
4.	"	"	A34	Connect VTVM using RF Probe to point  . Adjust for maximum.

RECEIVE (OSCILLATOR ADJUSTMENT)

	SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
5.	Frequency Counter	Any	A13	Connect counter to point  and turn A13 counterclockwise until oscillator stops, then turn clockwise one turn.
6.	Frequency counter		A7,A8,A9 A10,A11, A12	Connect counter to point  and adjust for correct crystal frequencies, with clarifier in the center of its range.
7.	Frequency Counter	Any	A18	Connect counter to point  and turn A18 counterclockwise until oscillator stops, then turn clockwise one turn.
8.	Frequency Counter		A14,A15, A16, A17	Connect counter to point  and adjust for correct crystal frequencies.

RECEIVE (AM)

	SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
9.	Frequency Counter	Any	A22	Connect counter to point  and turn A22 counterclockwise until oscillator stops, then turn clockwise one turn.
10.	Frequency Counter		A19, A20 A21, A44	Connect counter to point  and adjust for correct crystal frequencies.
11.	High side thru .01mfd to Antenna Connector, low side to chassis. Tune to 27.085MC (Mod.)	11	A23,A24 A25,A26, A27	Adjust for maximum.



TEABERRY MODEL TWIN "T"

ALIGNMENT INSTRUCTIONS (Continued)

TRANSMITTER (AM)

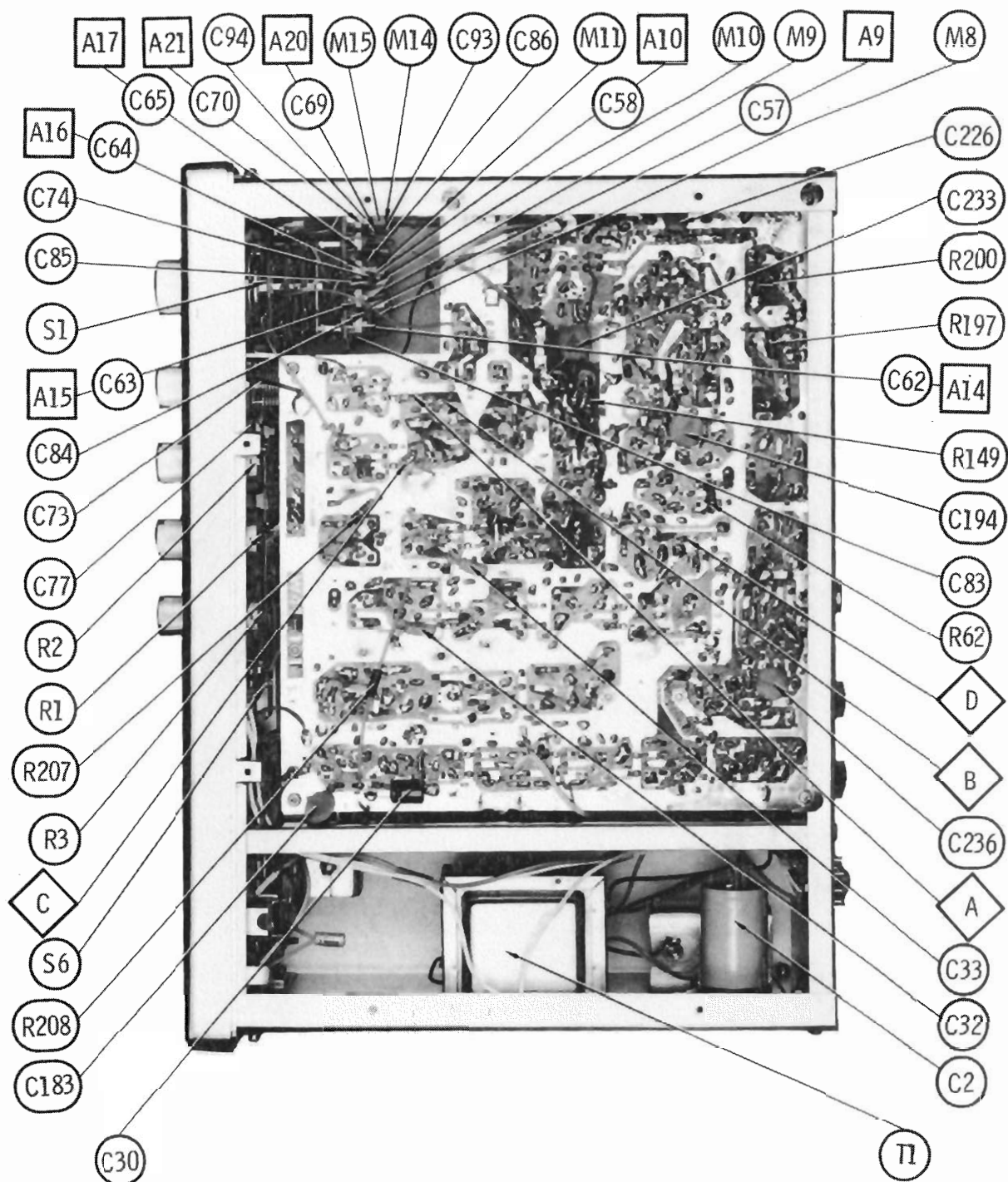
	INDICATOR	ADJUST	REMARKS
12.	Frequency Counter	A30	Connect counter to base of Q29 and turn A30 counterclockwise until oscillator stops then turn clockwise one turn.
	Frequency Counter	A28,A29	Connect counter to base of Q29 and adjust for correct crystal frequencies.
13.	RF Wattmeter or Field Strength Meter	A37,A38 A39,A40	Adjust for maximum.
14.	0-500ma DC Ammeter	A41,A42	Connect Ammeter in Emitter load of Q45 (Final Amp) and adjust for 5 Watts Input.

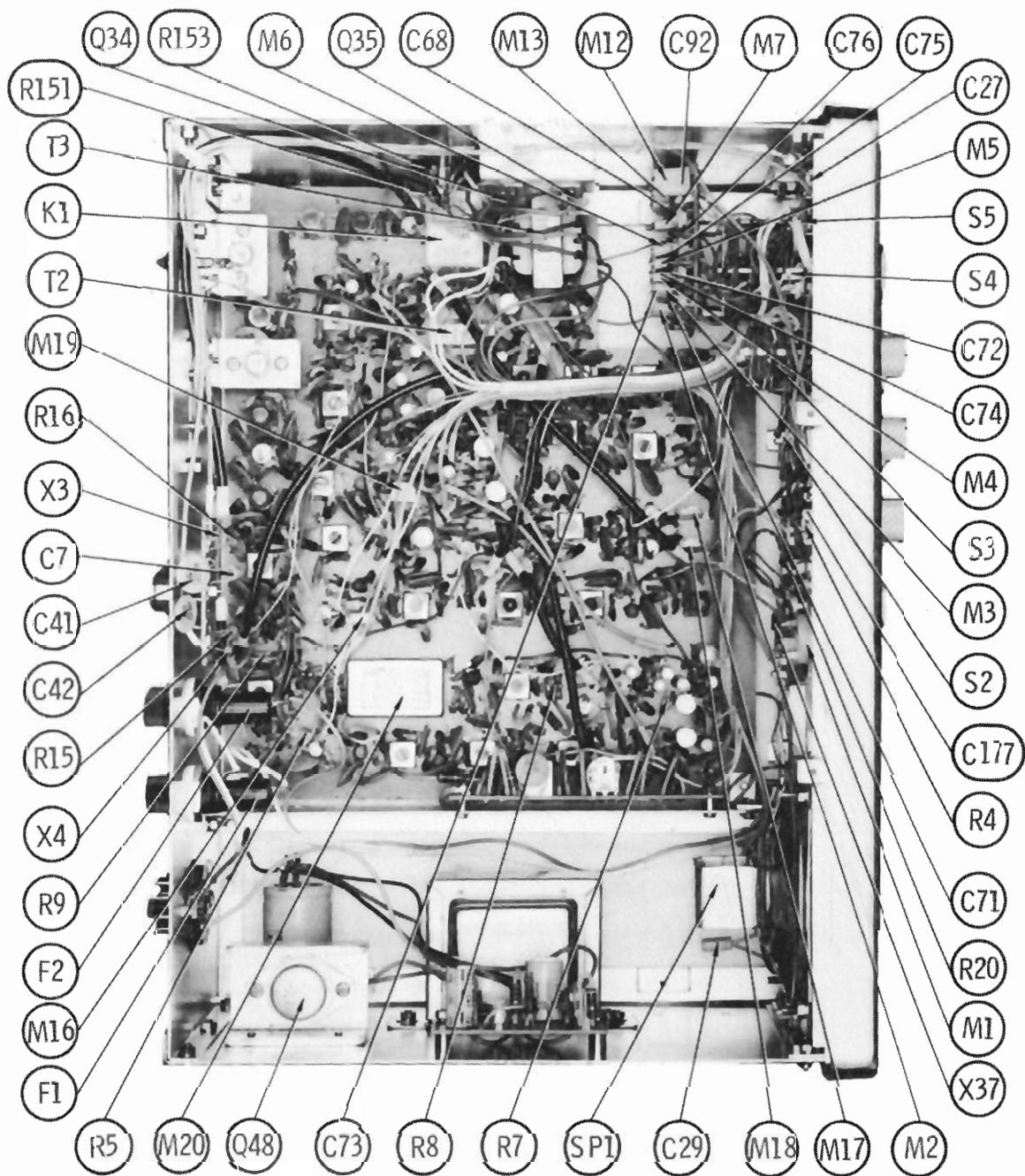
TRANSMITTER (AM MODULATION)

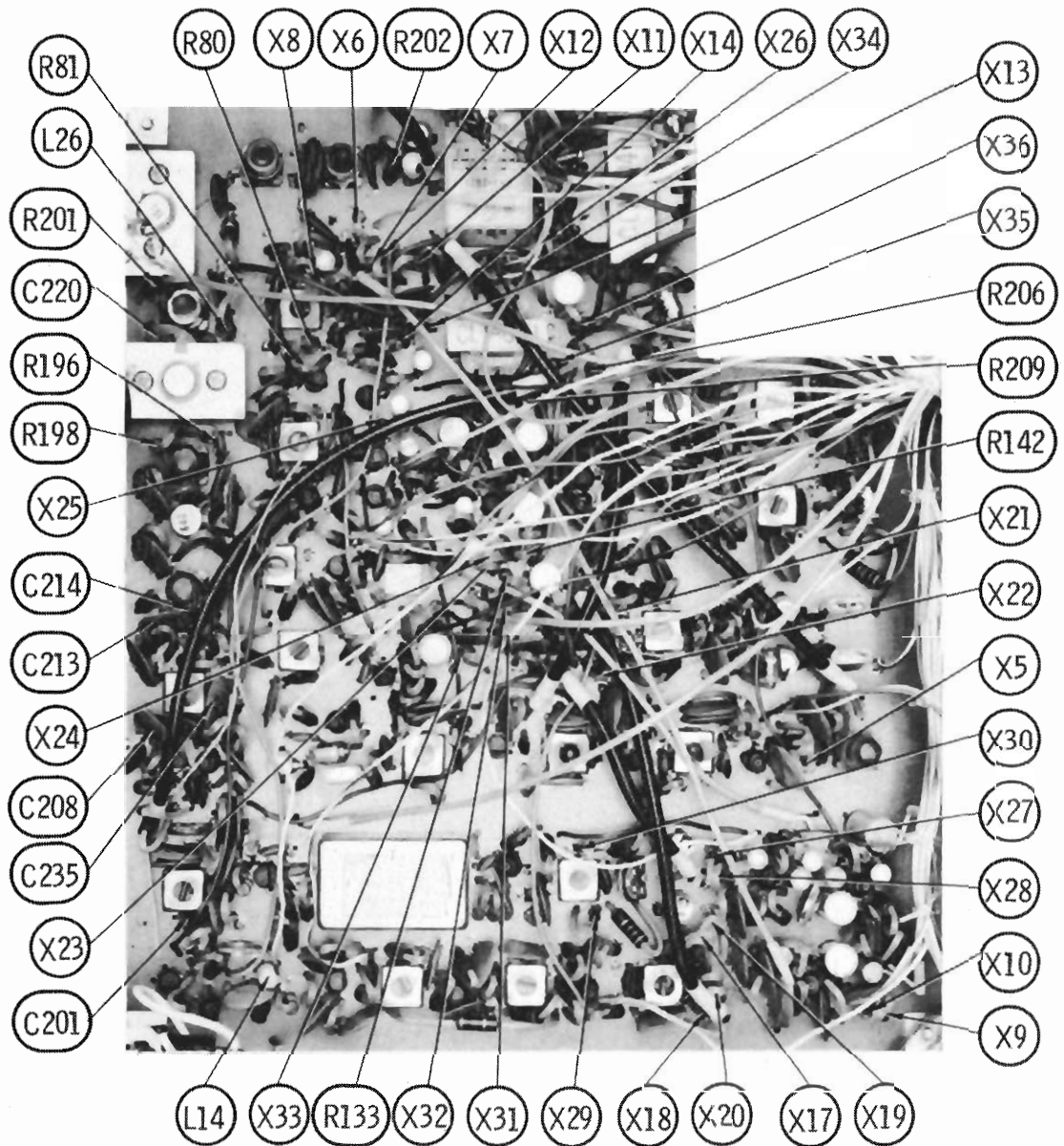
	INDICATOR	ADJUST	REMARKS
15.	Monitor Scope	R7	Connect Monitor Scope to Antenna Connector adjust R7 for 90% - 100% modulation.

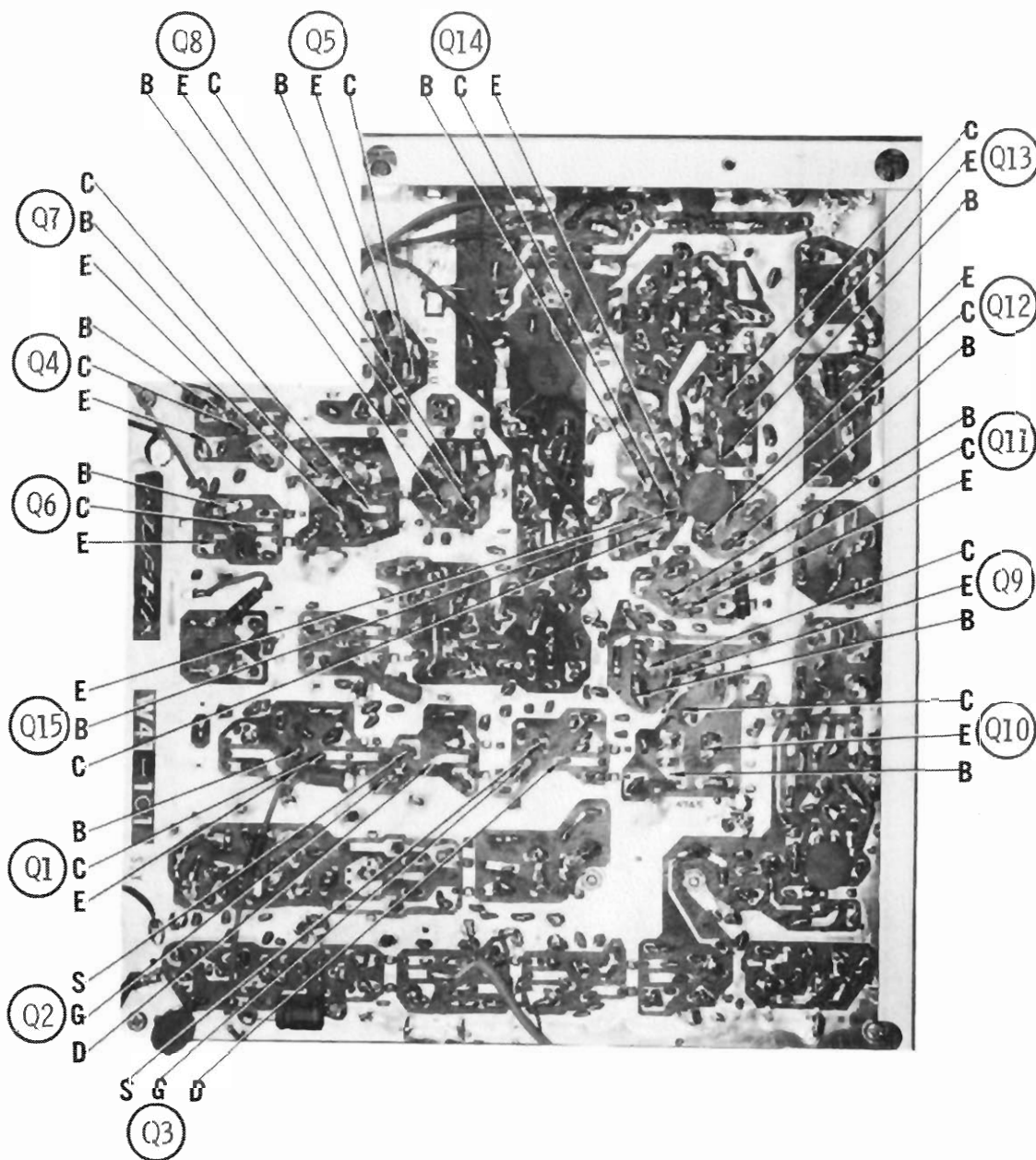
TRANSMITTER (SSB)

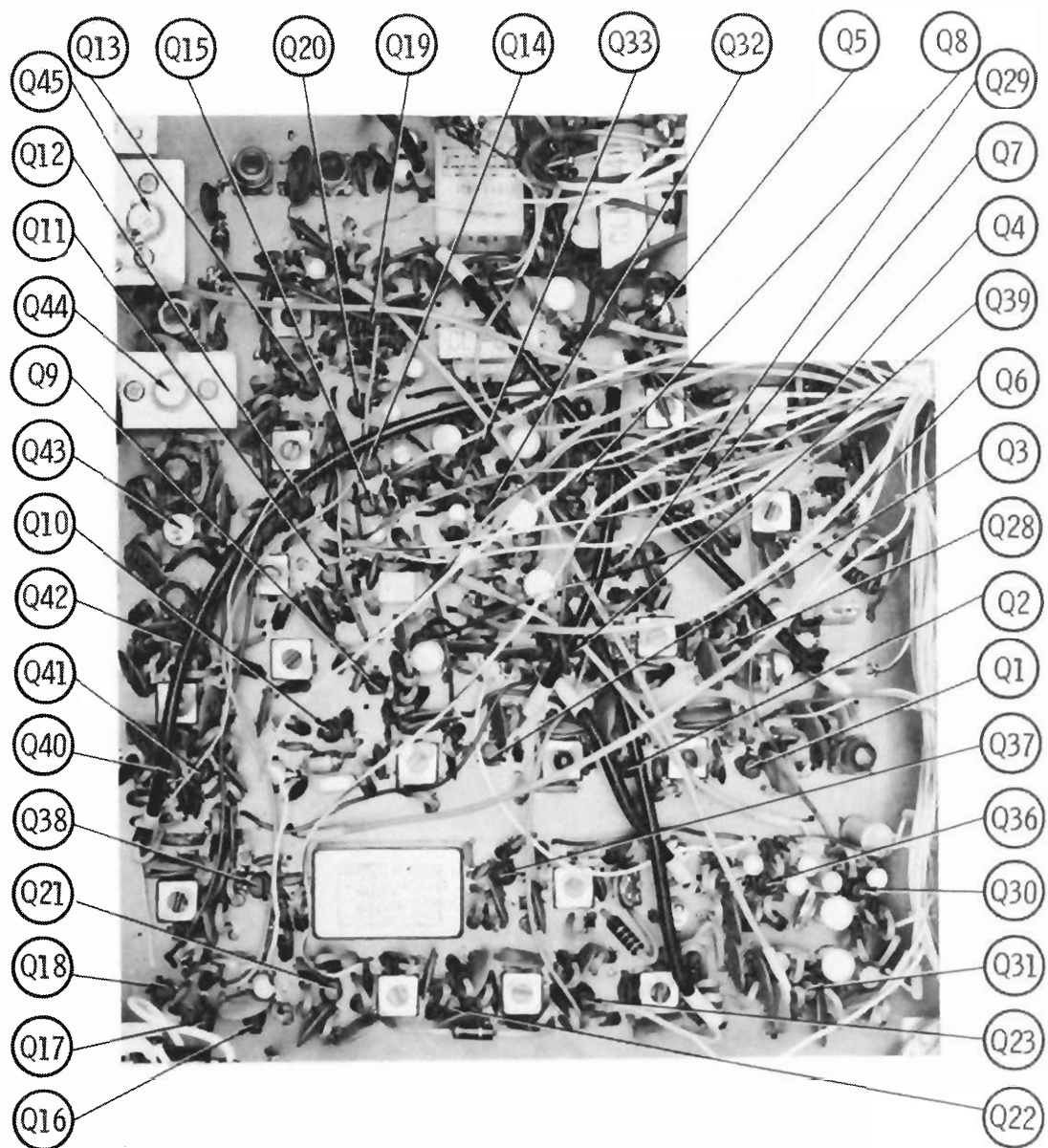
	INDICATOR	ADJUST	REMARKS
16.	RF Wattmeter and Monitor Scope	R8	Connect RF Wattmeter and Monitor Scope to Antenna connector. Set the mode switch to USB position, short microphone input to ground. Adjust for MINIMUM carrier output with no audio.
17.	RF Wattmeter and Monitor Scope	A35,A36 R9	Connect RF Wattmeter and Monitor scope to Antenna connector. Set the mode switch to USB position. Connect AF Generator to the microphone jack, and adjust generator output for useable output on monitor scope. Adjust A35 and A36 for maximum and adjust R9 for symmetric waveform.
18.	Television (Ch. 2)	A43	Adjust for MINIMUM interference.

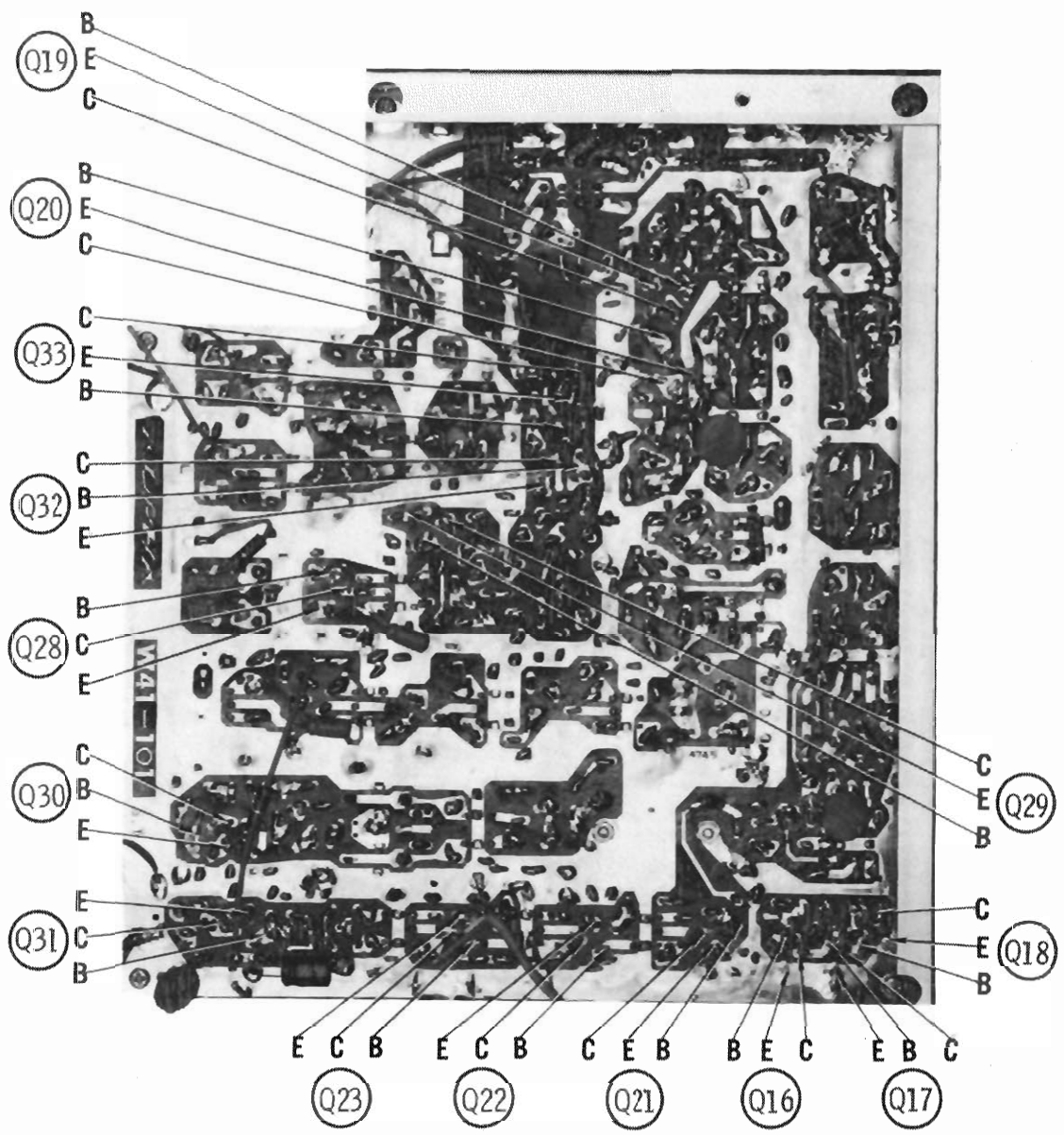


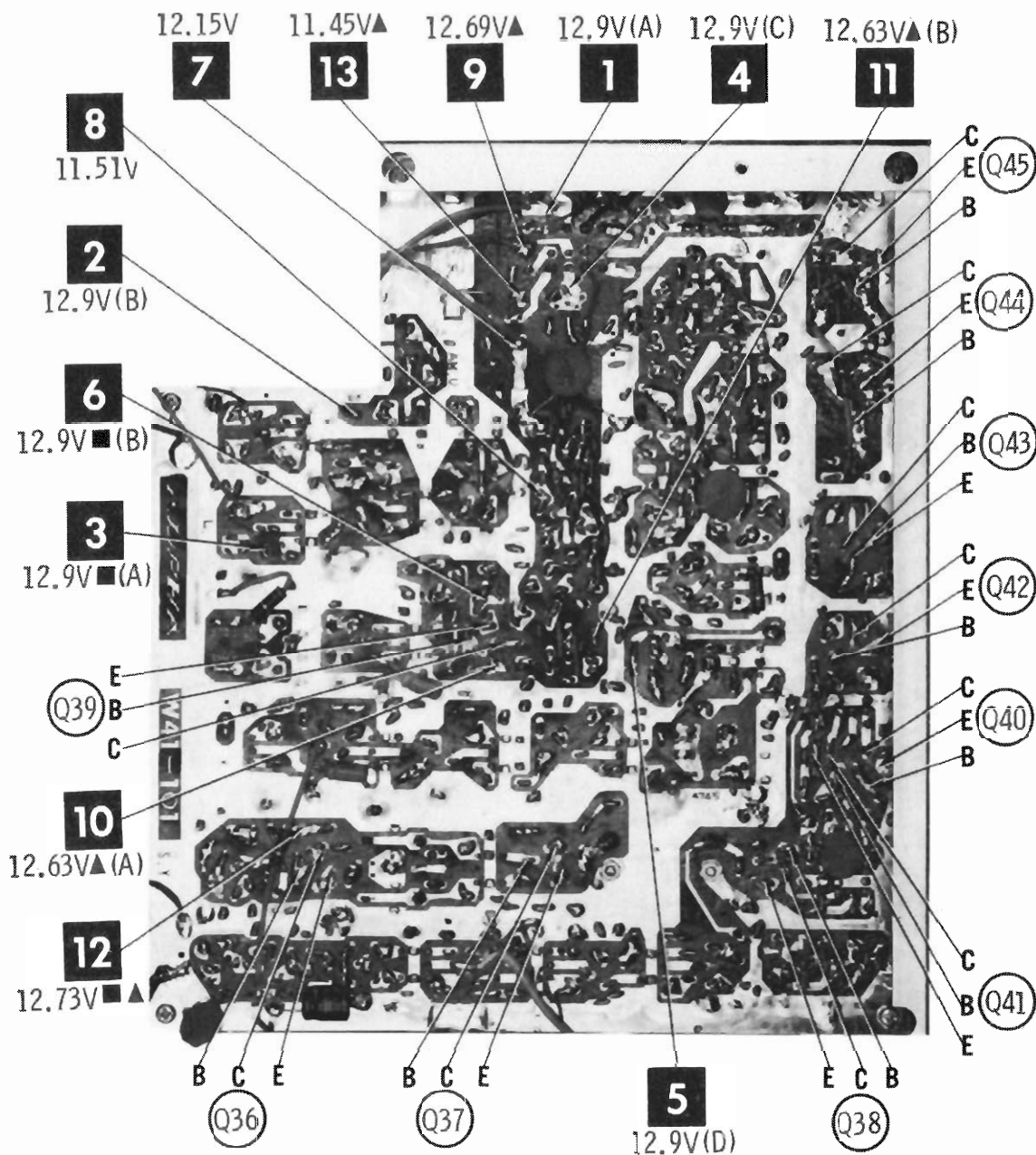


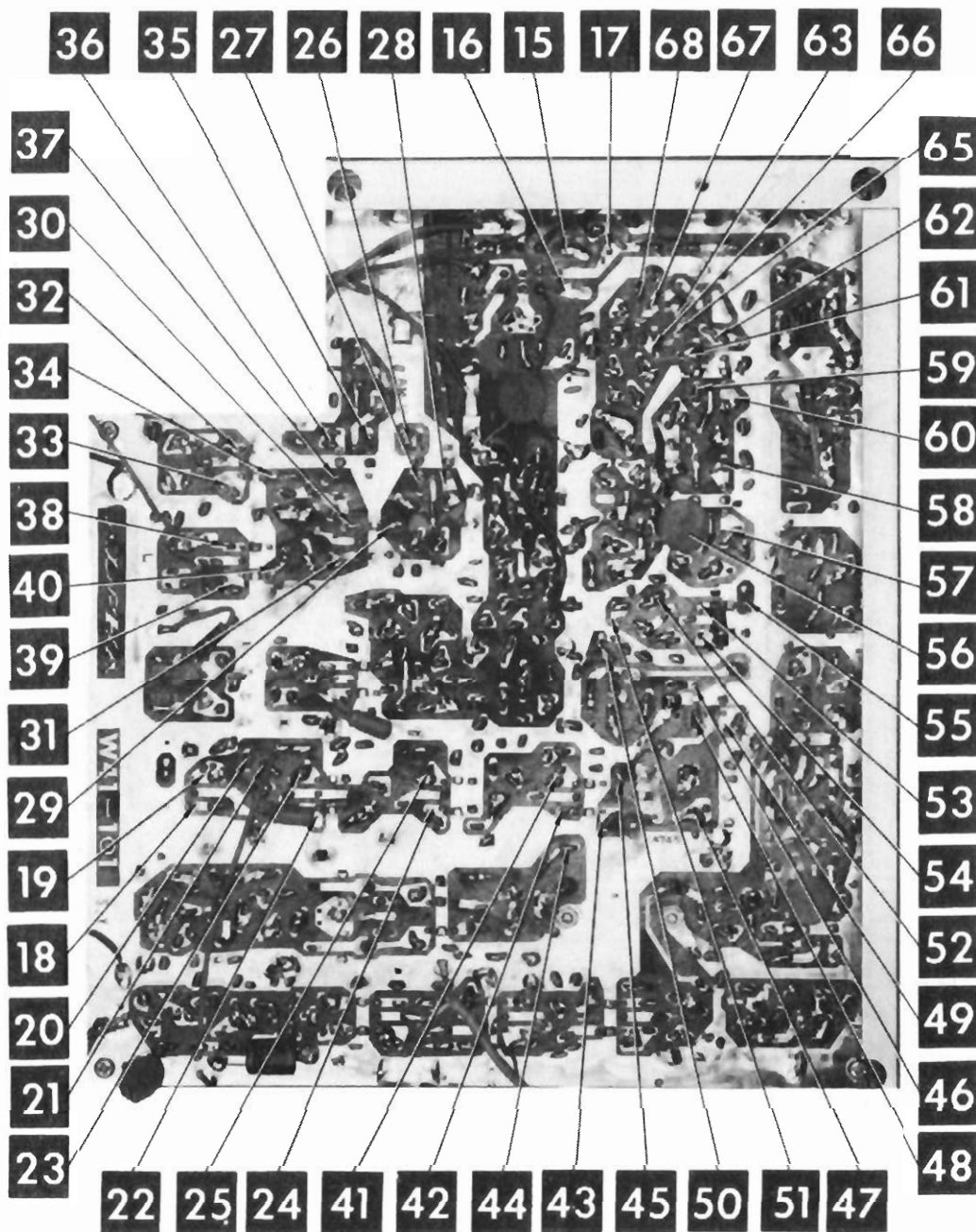


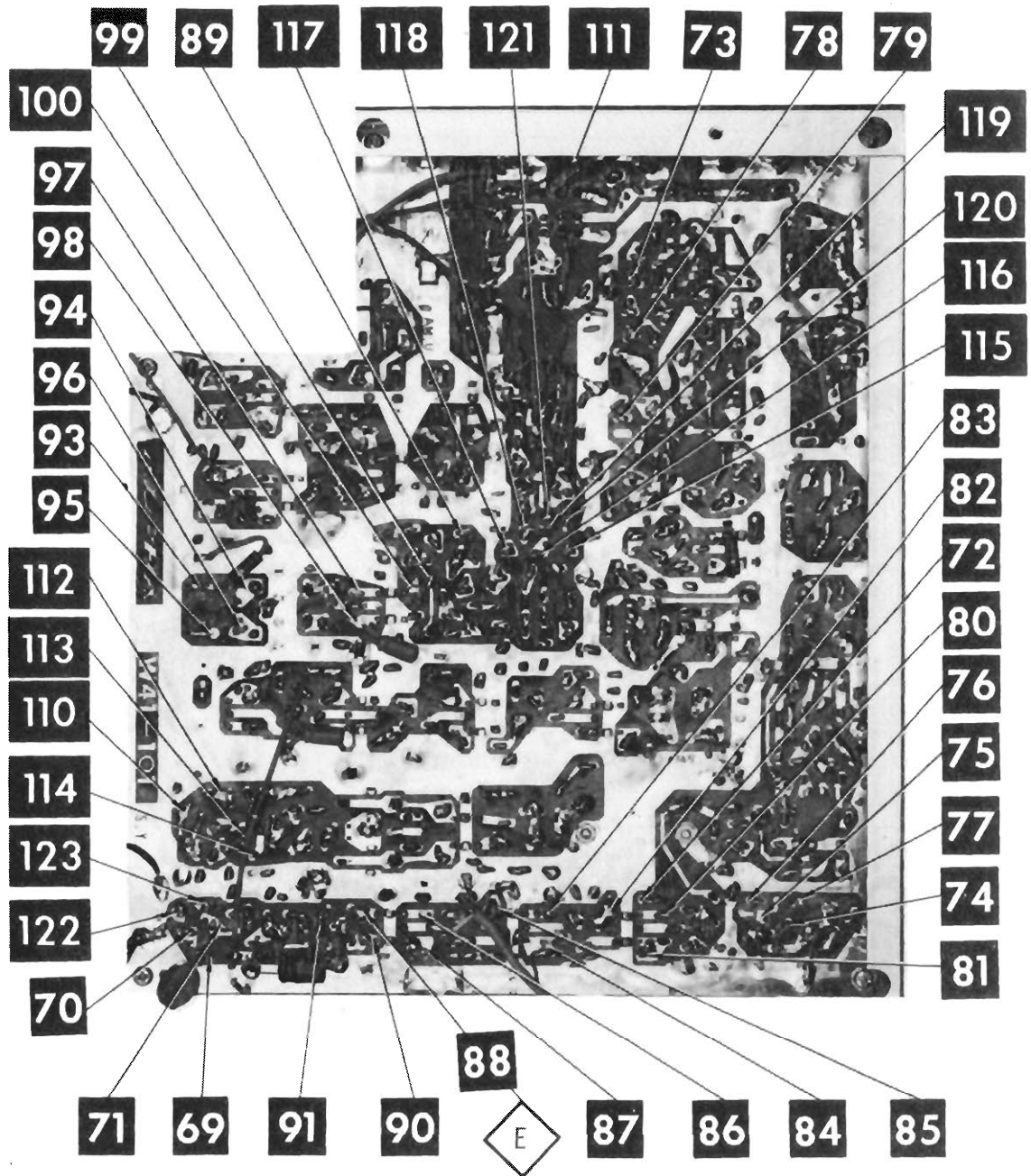


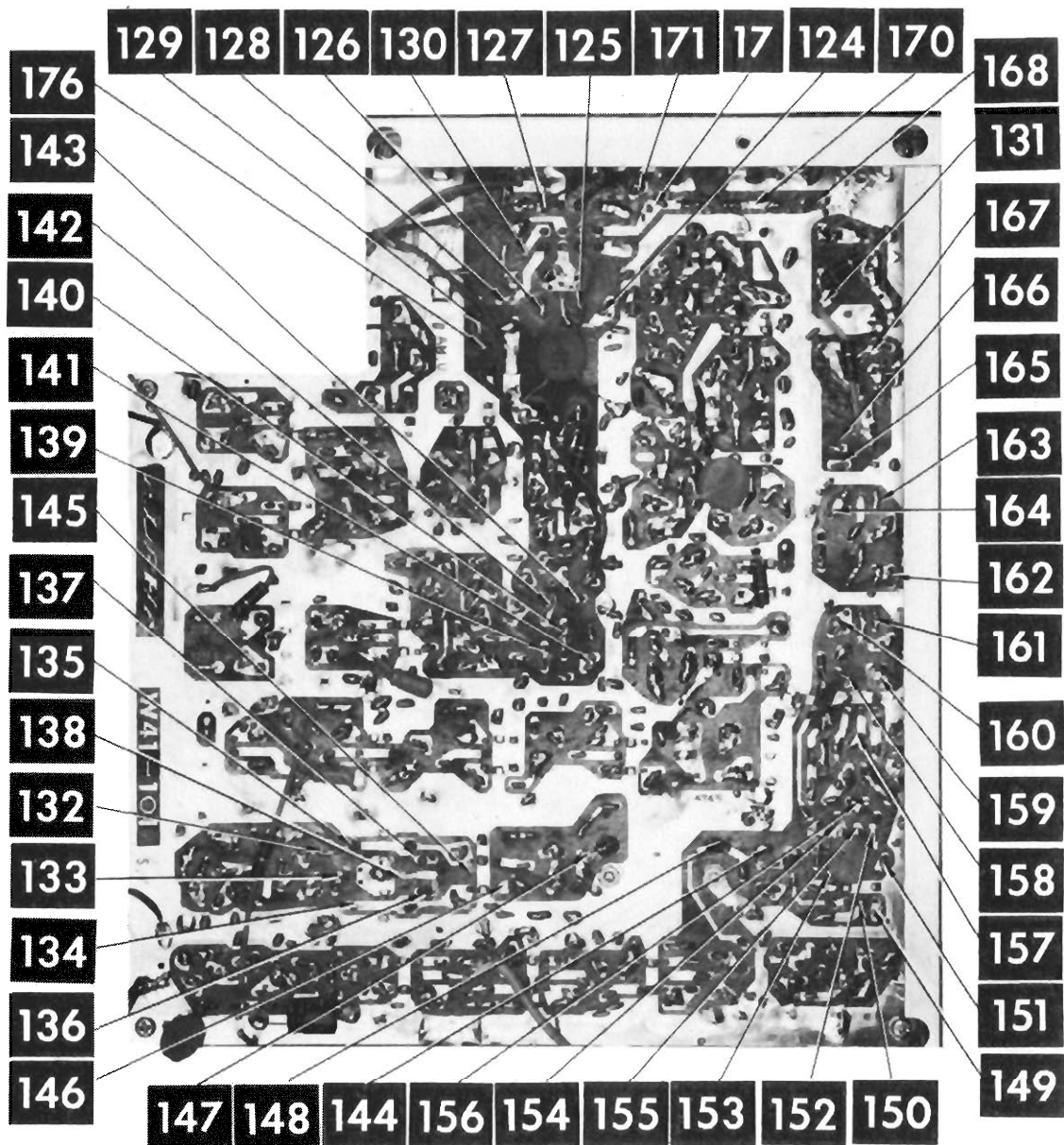


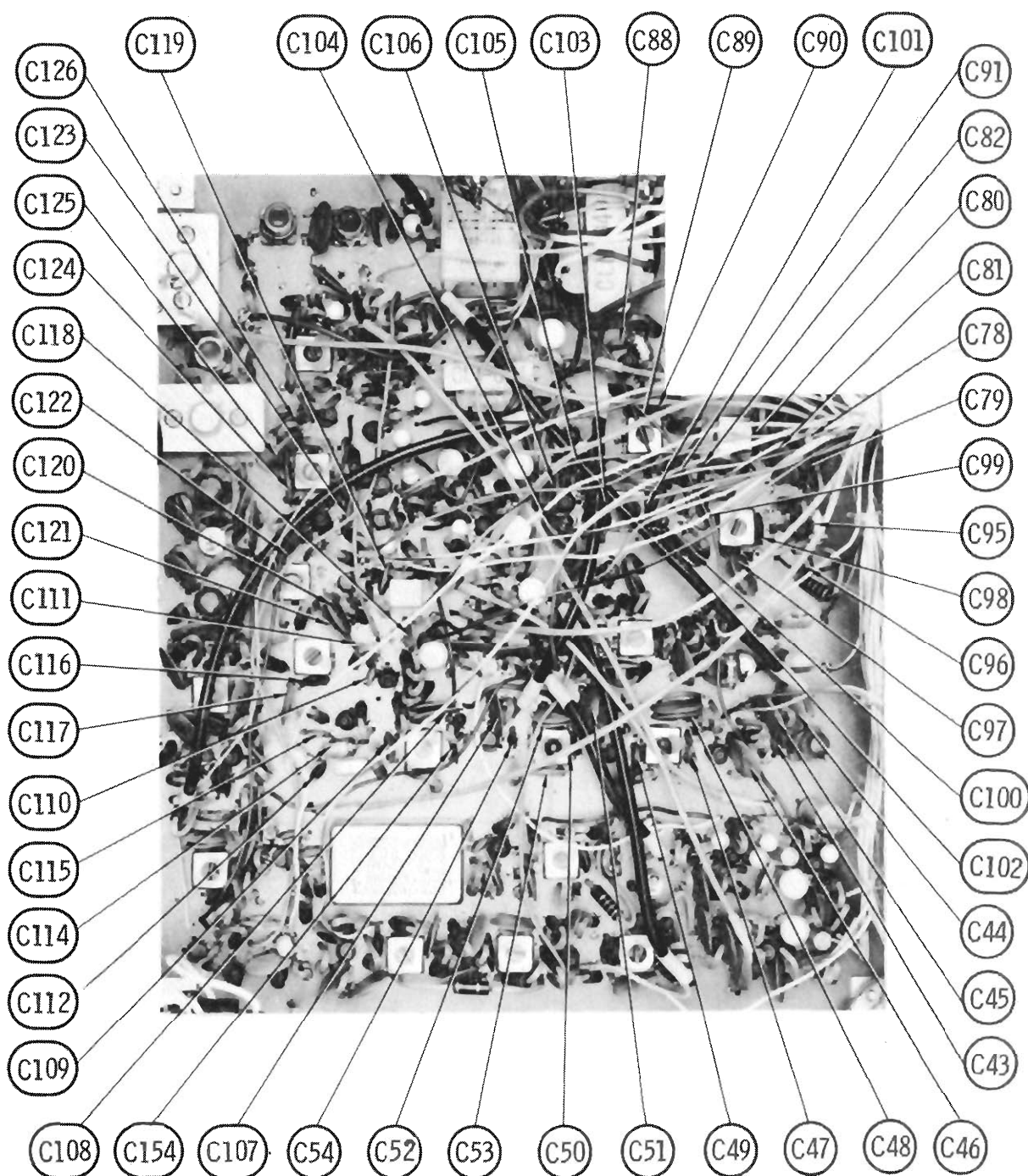


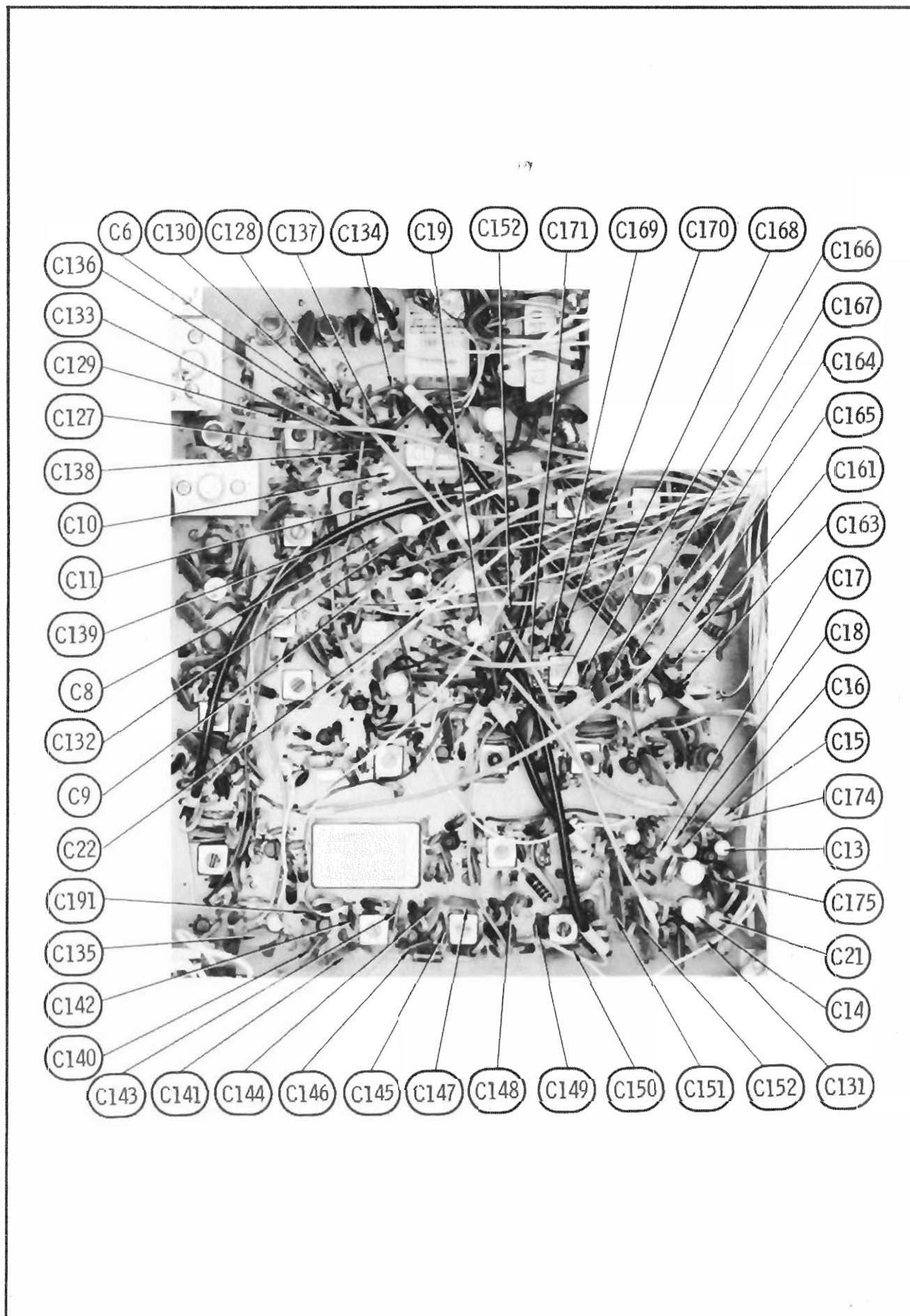


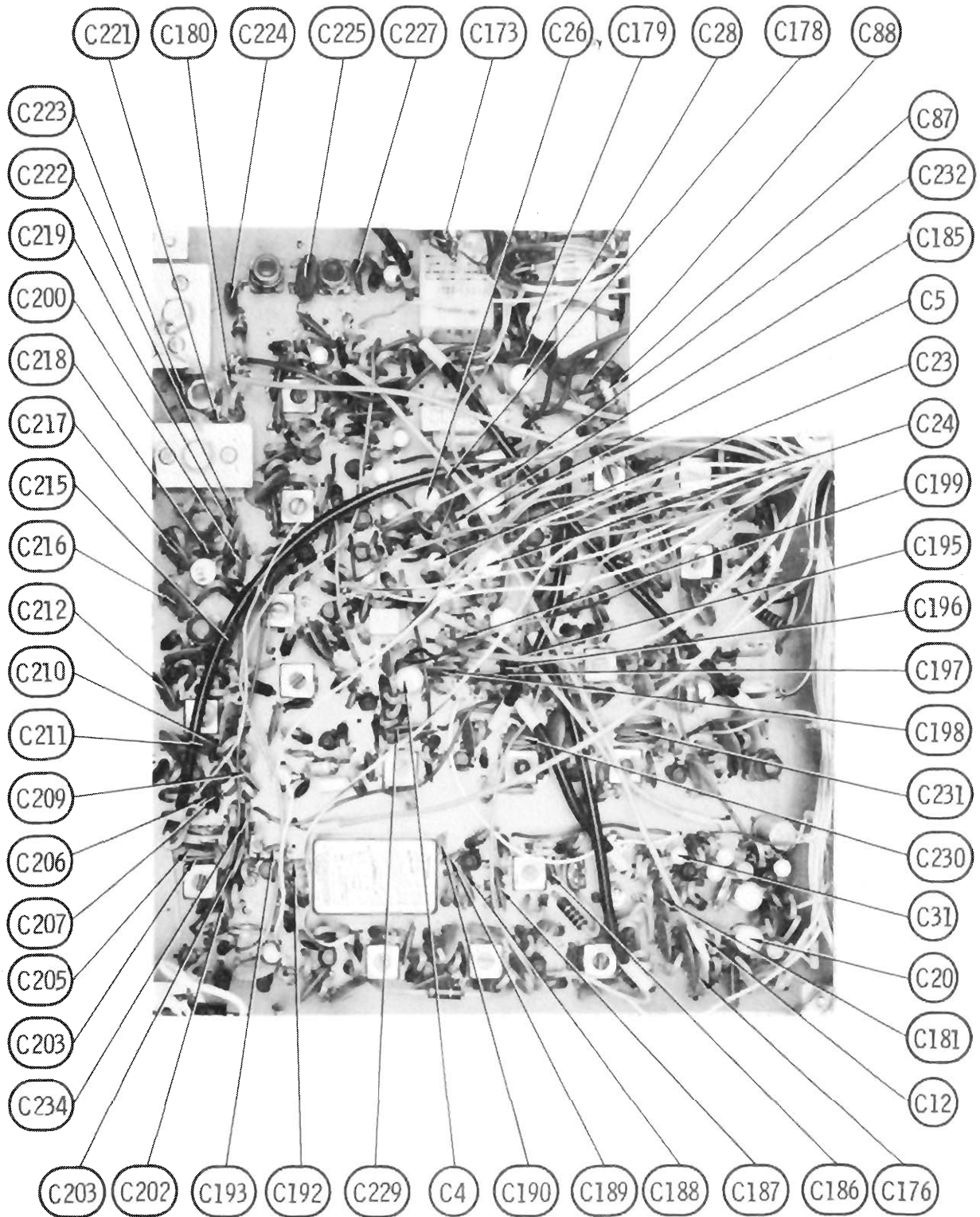


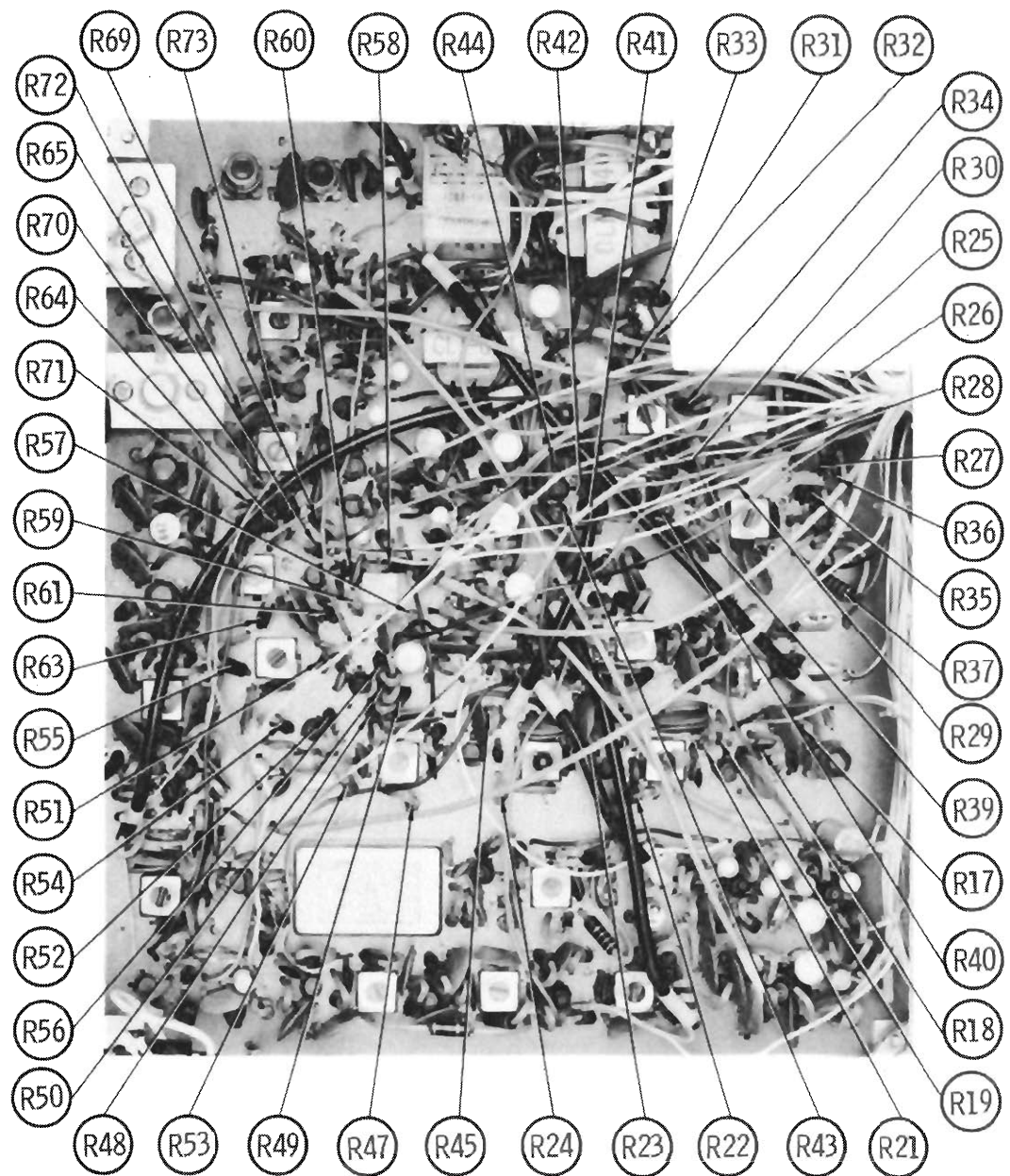


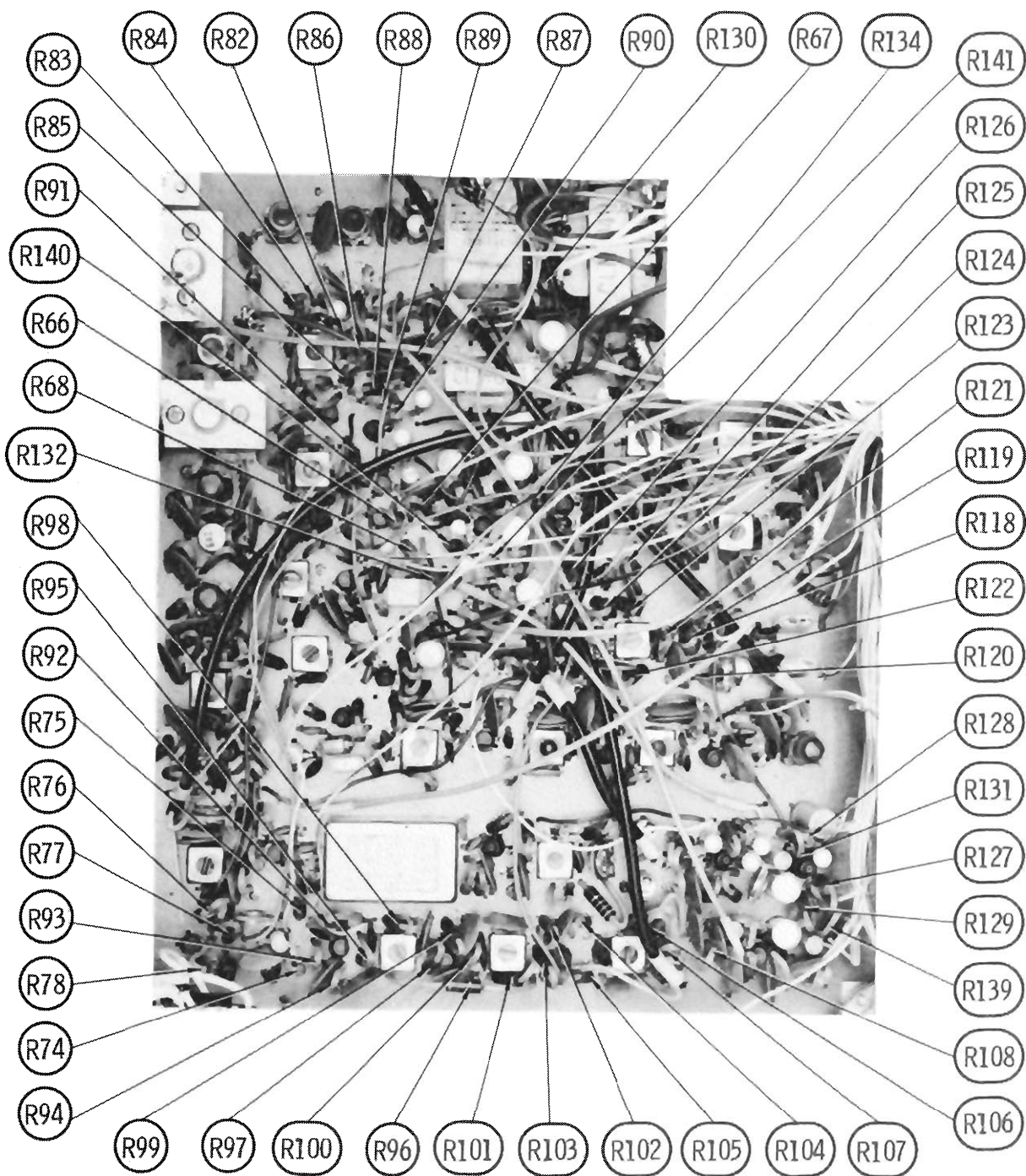


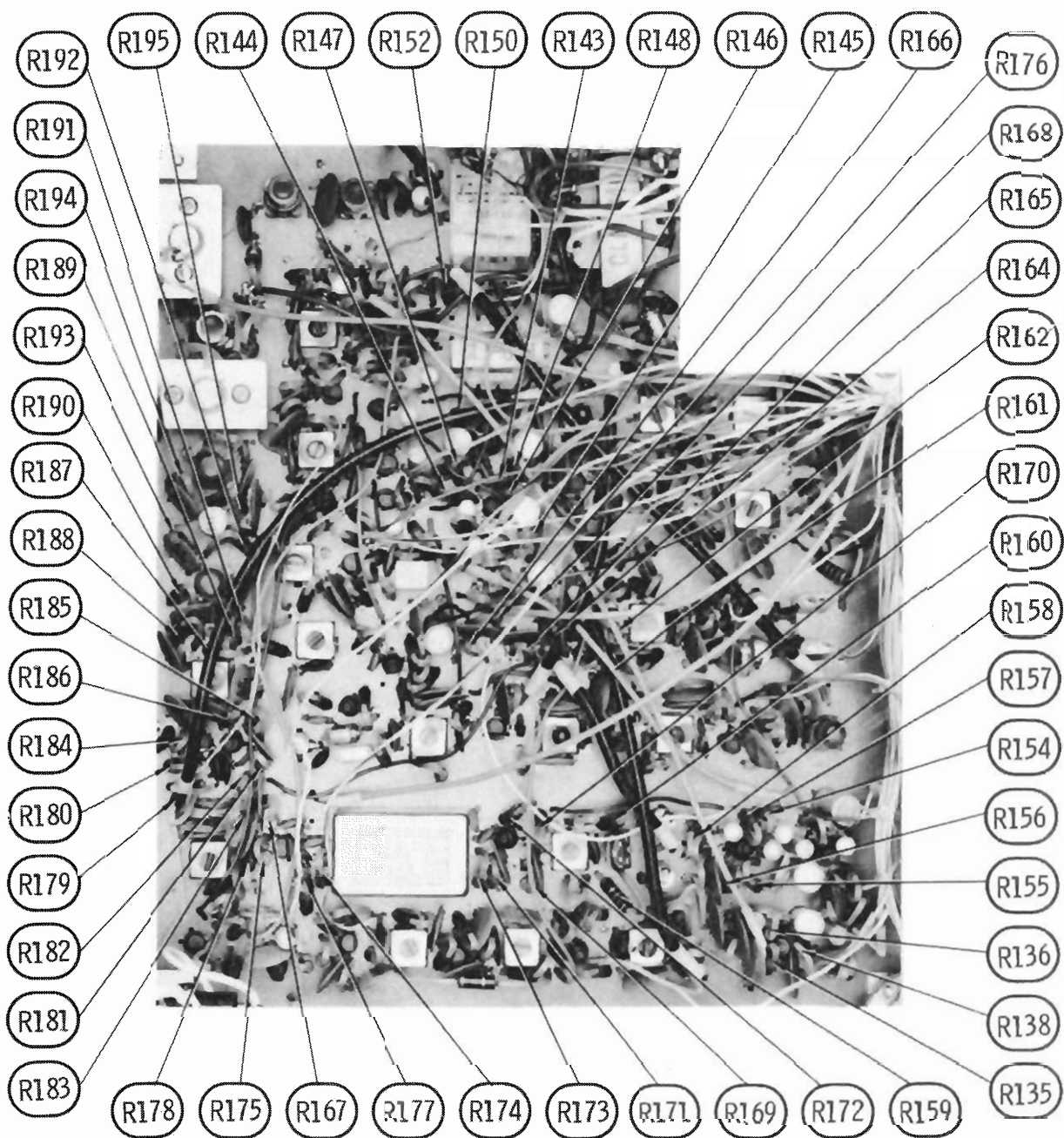


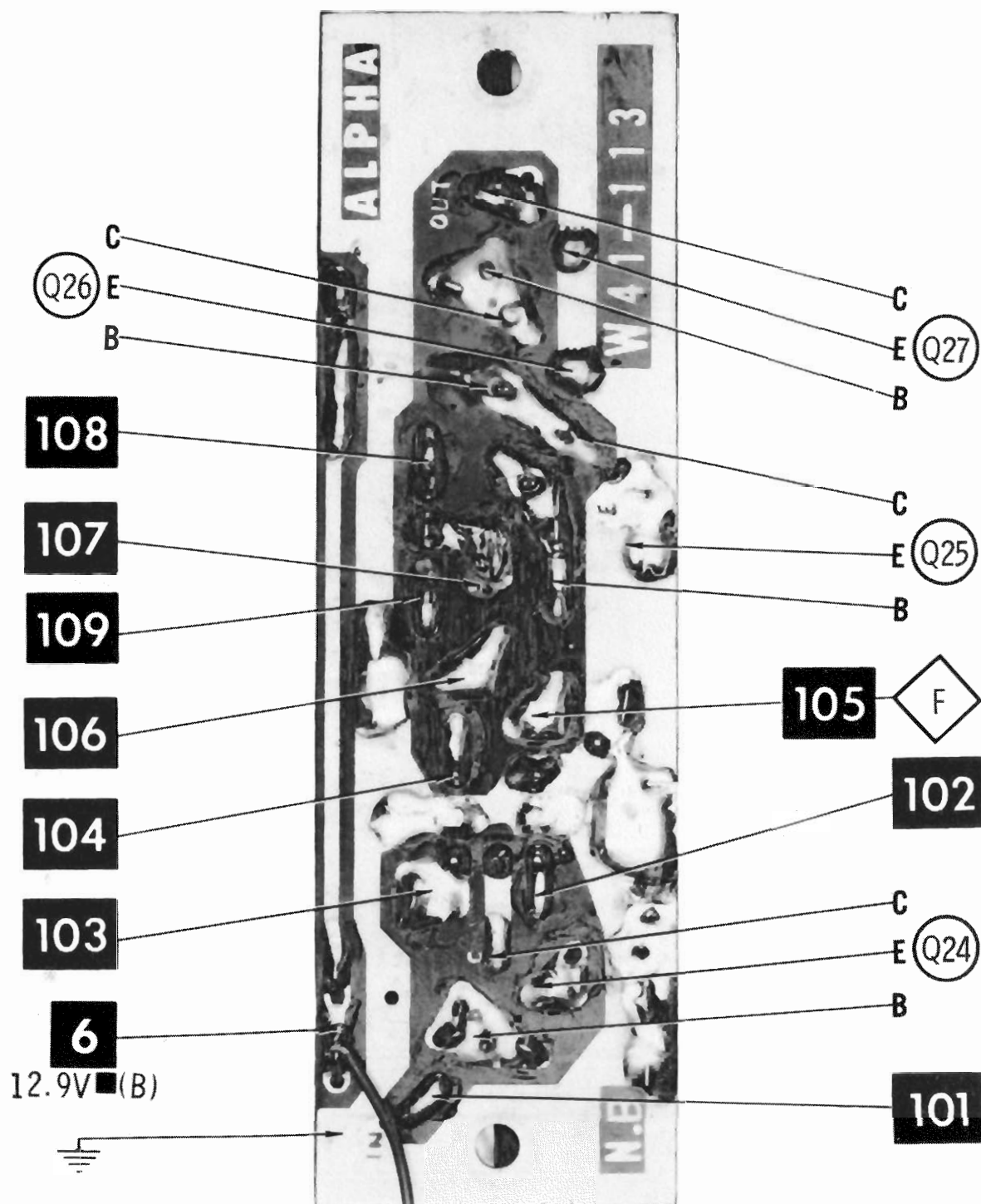


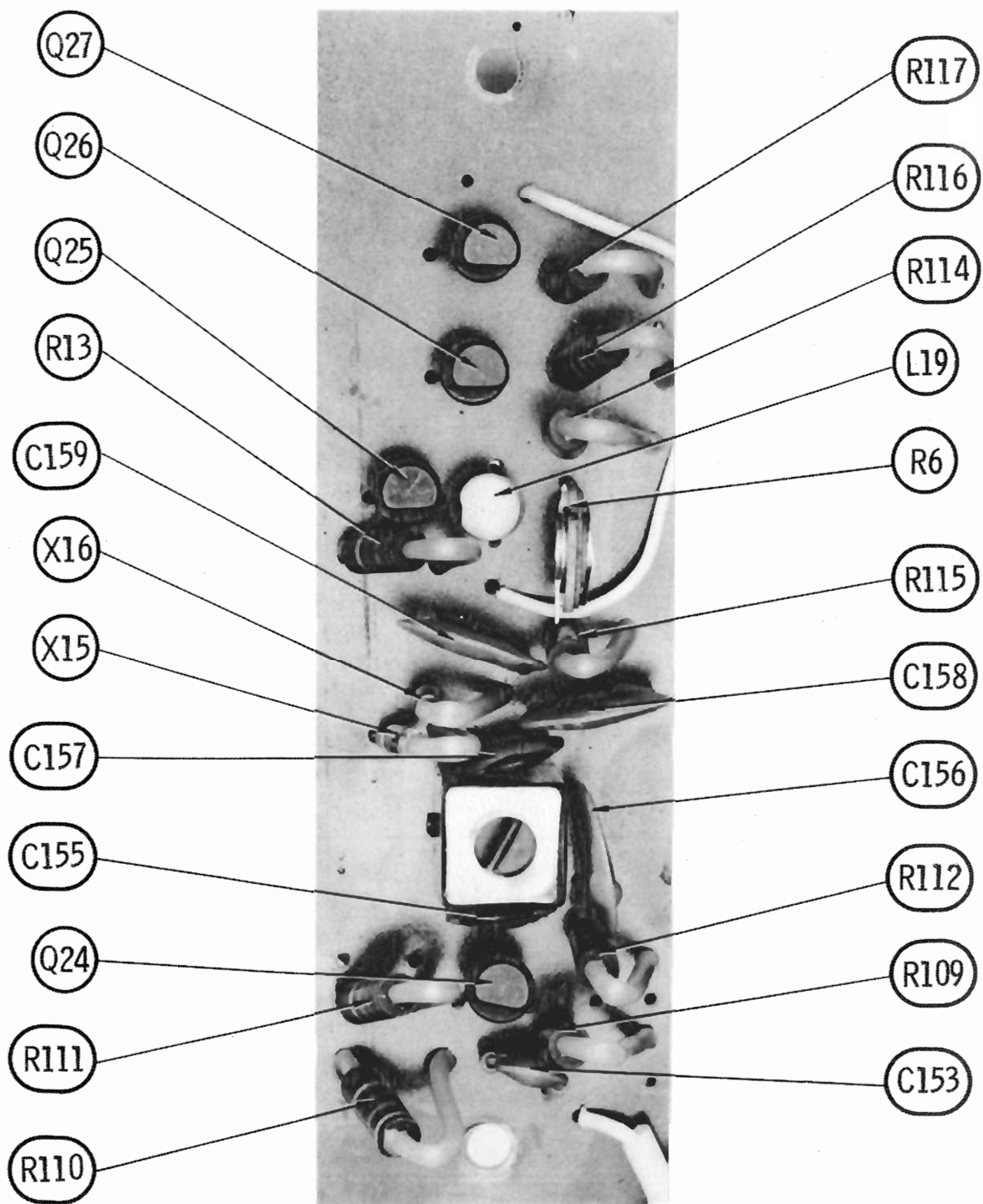


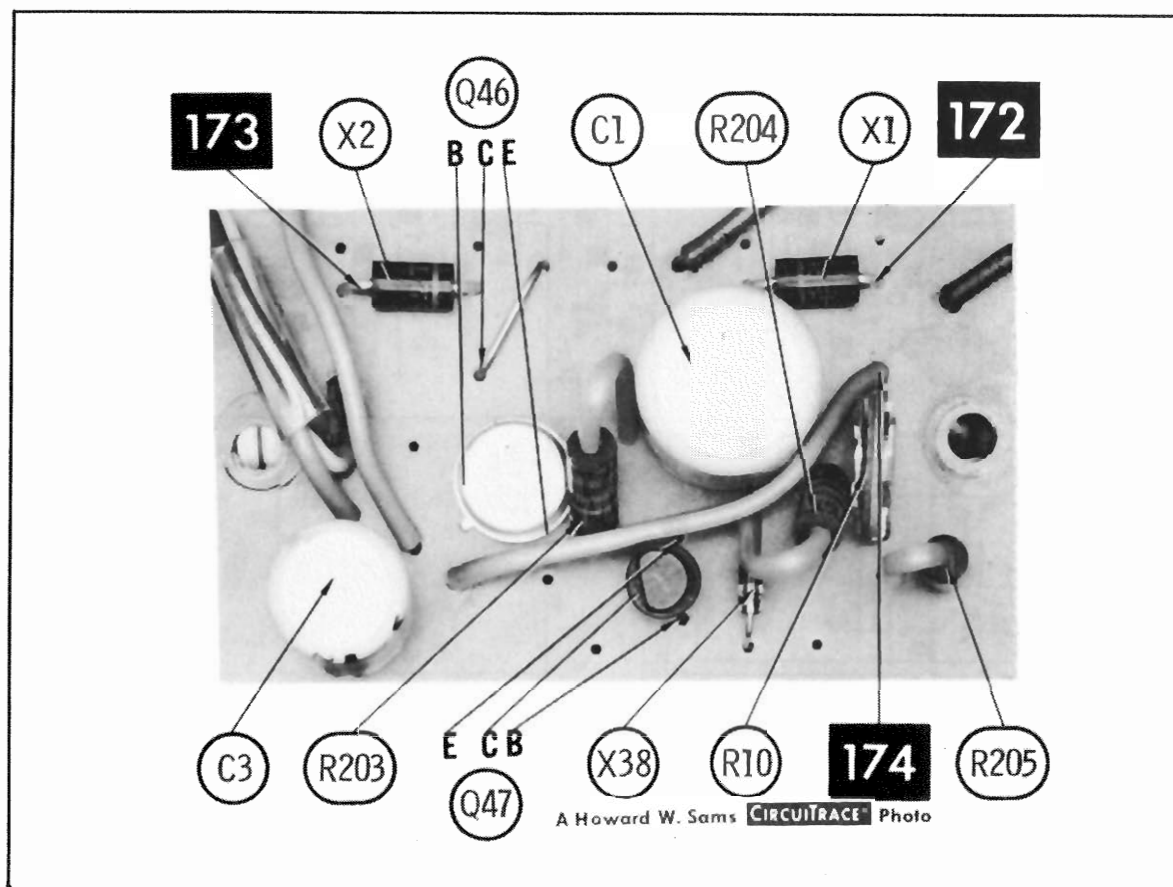












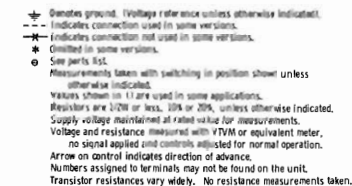
PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA					
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	MOTOROLA PART No.
Q1	2SC371(U)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q2	2SK19(GR)		GE-FET 1	FE-100		SK3116	ECG 132	HEP802
Q3	2SK19(GR)		GE-FET 1	FE-100		SK3116	ECG 132	HEP802
Q4	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q5	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q6	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q7	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q8	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q9	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q10	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q11	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q12	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q13	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q14	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q15	2SC371(O)		GE-17	TR-51	PTC121	SK3018	ECG 123A	HEP50
Q16	2SC373		GE-17	TR-51	PTC123	SK3020	ECG 123A	HEP55
Q17	2SC373		GE-17	TR-51	PTC123	SK3020	ECG 123A	HEP55

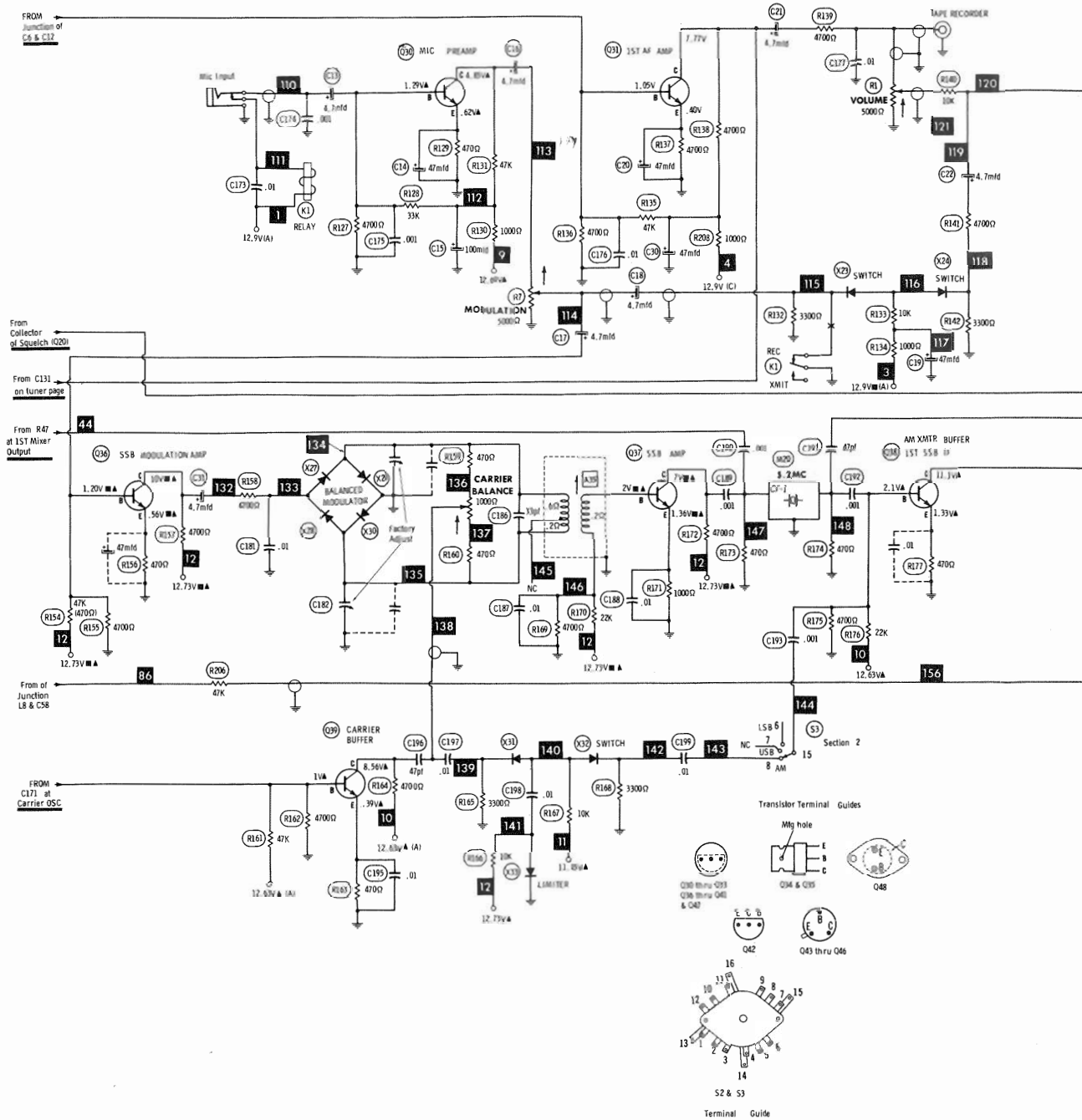
(CONTINUED ON PAGE 104)



with **CIRCUITTRACE**

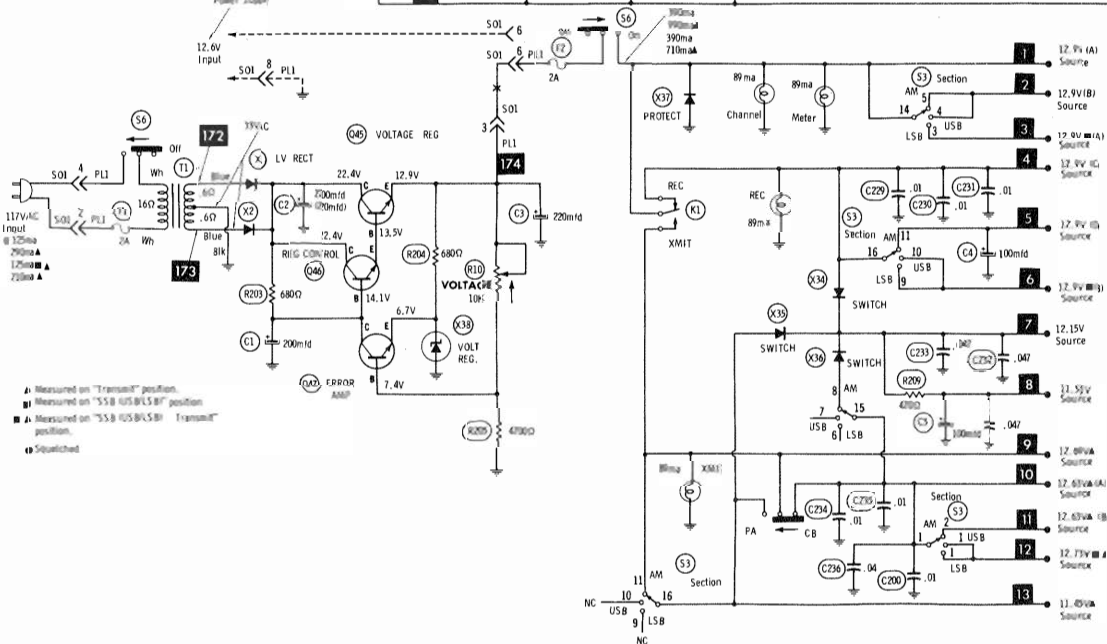
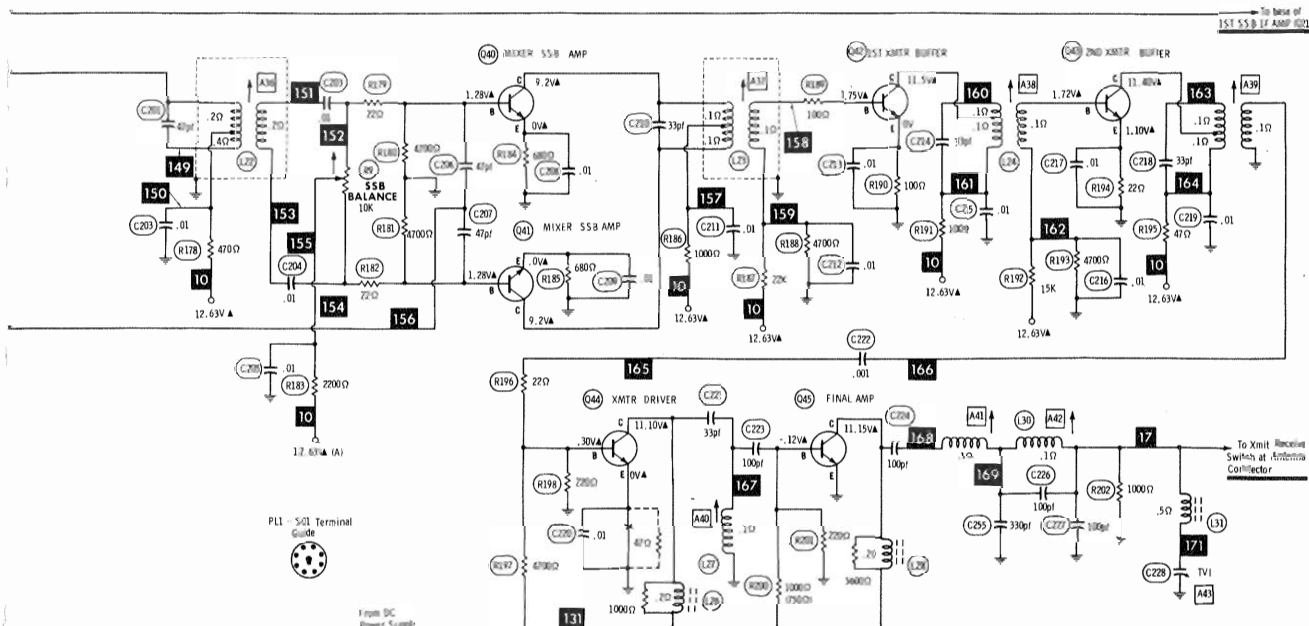
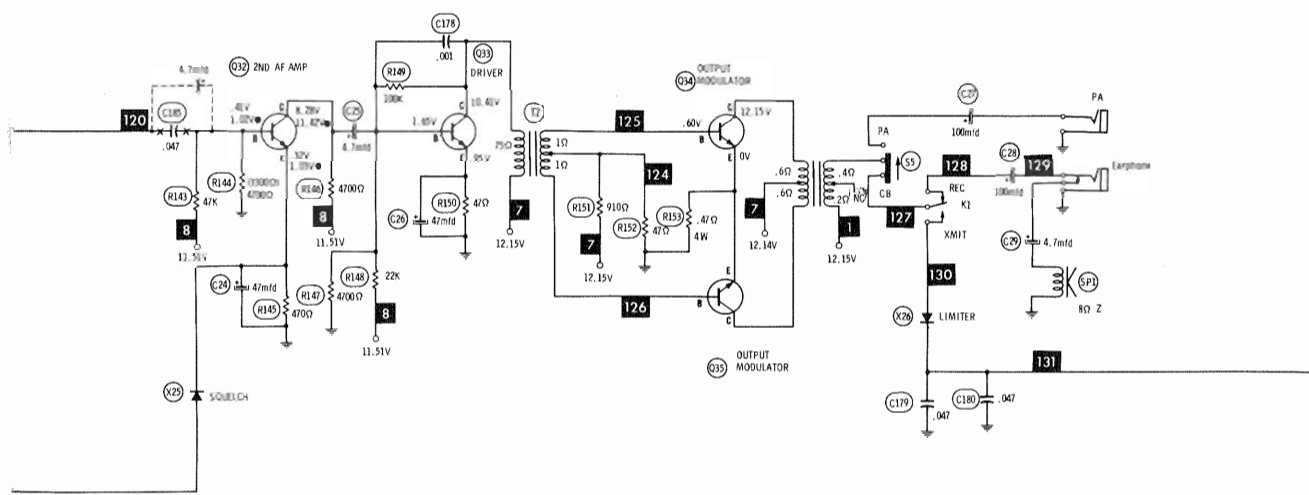
All measurements are taken with 117VAC input, unless otherwise noted.
 All measurements are taken with switching as shown, unless otherwise stipulated.
 ■ Measured in "Transmit" position
 ■ Measured in "SS-B OUT/SL-B" position
 ■ Measured in "SS-B OUT/SL-B" Transmit" position
 ● Squelched





⚡ Denotes ground. (Voltage reference unless otherwise indicated).
 --- Indicates connection used in some versions.
 * Indicates connection not used in some versions.
 * Omitted in some versions.
 Ⓢ See parts list.
 Measurements taken with switching in position shown unless otherwise indicated.
 Values shown in () are used in some applications.
 Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated.
 Supply voltage identified at rated value for measurements.
 Voltage and resistance measured with VTVM or equivalent meter, no signal applied and controls adjusted for normal operation.
 Arrow on control indicates direction of advance.
 Numbers assigned to terminals may not be found on the unit.
 Transistor resistances vary widely. No resistance measurements taken.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
 with **CIRCUITRACE**
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PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (cont)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA					
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	MOTOROLA PART No.
Q18	2SC373		GE-17	TR-51	PTC123	SK3020	ECG 123A	HEP55
Q19	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q20	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q21	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q22	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q23	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q24	2SC373		GE-17	IR-51	PTC123	SK3020	ECG 123A	HEP55
Q25	2SC373		GE-17	IR-51	PTC123	SK3020	ECG 123A	HEP55
Q26	2SC373		GE-17	IR-51	PTC123	SK3020	ECG 123A	HEP55
Q27	2SC373		GE-17	IR-51	PTC123	SK3020	ECG 123A	HEP55
Q28	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q29	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q30	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q31	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q32	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q33	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q34	2SC1014		GE-28	IR-55		SK3054	ECG 186	HEPS3020
Q35	2SC1014		GE-28	IR-55		SK3054	ECG 186	HEPS3020
Q36	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q37	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q38	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q39	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q40	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q41	2SC371(0)		GE-17	IR-51	PTC121	SK3018	ECG 123A	HEP50
Q42	2SC710		GE-17	IR-24		SK3018	ECG 123A	HEP56
Q43	2SC775		GE-17	IR-64		SK3047	ECG 128	HEPS3001
Q44	2SC777		GE-17	IR-64		SK3049	ECG 128	HEPS3002
Q45	2SC1239			IR-65		SK3049		HEPS3001
Q46	2SC498		GE-66	IR-64		SK3024	ECG 128	HEPS3001
Q47	2SC373		GE-17	IR-51	PTC123	SK3020	ECG 123A	HEP55
Q48	2SC495		GE-28	IR-55		SK3041	ECG 184	HEP245
X1	1S1885		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X2	1S1885		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X3	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X4	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X5	1S1555		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X6	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X7	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X8	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X9	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X10	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X11	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X12	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X13	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X14	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X15	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X16	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X17	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X18	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X19	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X20	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X21	1S1555		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X22	1S1555		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X23	1S1555		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X24	1S1555		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X25	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X26	1S1885		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X27	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X28	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X29	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X30	1S34		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X31	1S1555		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X32	1S1555		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X33	1S1555		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X34	1S1885		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X35	1S1885		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X36	1S1885		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X37	1S1885		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X38	02Z6.2A			Z1106		SK3058	ECG 5071	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA							
		MFGR. PART No.	AEROVOX PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	200 25V		PRS1280	ME-G200	EA30-250	WBR250-25	MT1-23.5	MTA200F25	TE-1213
C2	2200 25V		PRS1296	ME-G2000		WBR2000-25		TC2520	TL-1220
C3	220 16V		PRS1210	ME-8-E-250	EA15-250	WBR250-16	QT1-28	MTA250F15	TE-1164.5
C4	100 15V		CRE473A	ME-4-E-100	EA15-100	WBR100-16	MT1-19	MTA100E15	TE-1162
C5	100 15V		CRE473A	ME-4-E-100	EA15-100	WBR100-16	MT1-19	MTA100E15	TE-1162
C6	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C7	10 15V		CRE457A	ME-1-E-010	EA15-10	WBR10-25	MT1-5	MTA10D35	TE-1155
C8	1 16V		CRE750A	ME-1-E-001	EA15-2	WBR1-50	MT1-1	MTA1D50	TE-1148
C9	10 15V		CRE457A	ME-1-E-010	EA15-10	WBR10-25	MT1-5	MTA10D35	TE-1155
C10	10 15V		CRE457A	ME-1-E-010	EA15-10	WBR10-25	MT1-5	MTA10D35	TE-1155
C11	10 15V		CRE457A	ME-1-E-010	EA15-10	WBR10-25	MT1-5	MTA10D35	TE-1155
C12	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C13	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C14	4.7 16V		CRE467A	ME-3-E-050	EA15-50	WBR50-25	MT1-16	MTA50E15	TE-1160
C15	100 15V		CRE473A	ME-4-E-100	EA15-100	WBR100-16	MT1-19	MTA100E15	TE-1162
C16	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C17	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C18	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C19	47 16V		CRE467A	ME-3-E-050	EA15-50	WBR50-25	MT1-16	MTA50E15	TE-1160
C20	47 16V		CRE467A	ME-3-E-050	EA15-50	WBR50-25	MT1-16	MTA50E15	TE-1160
C21	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C22	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C24	47 16V		CRE467A	ME-3-E-050	EA15-50	WBR50-25	MT1-16	MTA50E15	TE-1160
C25	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C26	47 16V		CRE467A	ME-3-E-050	EA15-50	WBR50-25	MT1-16	MTA50E15	TE-1160
C27	100 15V		CRE473A	ME-4-E-100	EA15-100	WBR100-16	MT1-19	MTA100E15	TE-1162
C28	100 15V		CRE473A	ME-4-E-100	EA15-100	WBR100-16	MT1-19	MTA100E15	TE-1162
C29	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C30	47 16V		CRE467A	ME-3-E-050	EA15-50	WBR50-25	MT1-16	MTA50E15	TE-1160
C31	4.7 16V		CRE604A	ME-1-E-005	EA15-5	WBR5-50	MT1-3	MTA5D50	TE-1152
C32	10 15V		CRE457A	ME-1-E-010	EA15-10	WBR10-25	MT1-5	MTA10D35	TE-1155
C33	10 15V		CRE457A	ME-1-E-010	EA15-10	WBR10-25	MT1-5	MTA10D35	TE-1155

TEABERRY MODEL TWIN "T"

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMenco PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C41	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C42	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C43	.33			CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C44	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C45	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C46	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C47	.22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C48	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C49	.0001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C50	10			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C51	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C52	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C53	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C54	10			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C55								
C56								
C57								
C58								
C59								
C60								
C61								
C62								
C63								
C64								
C65								
C66								
C67								
C68	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C69								
C70								
C71	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C72	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C73	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C74	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C75	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C76	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS(cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C77	15			CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C78	330				CPR-330J		SX330	MS-333
C79	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C80	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C81	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C82	10			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C83	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C84	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C85	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C86	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C87	330				CPR-330J		SX330	MS-333
C88	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C89	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C90	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C91	10			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C92	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C93	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C94	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C95	330				CPR-330J		SX330	MS-333
C96	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C97	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C98	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C99	10			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C100	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C101	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C102	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C103	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C104	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C105	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C106	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C107	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C108	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C109	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C110	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C111	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C112	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C113								
C114	330				CPR-330J		SX330	MS-333
C115	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C116	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C117	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C118	.0047		GPD X5R472K	CCD-472	DD-472G	GP4700	JF247	10TS-D47
C119	.0047		GPD X5R472K	CCD-472	DD-472G	GP4700	JF247	10TS-D47
C120	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C121	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C122	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C123	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C124	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C125	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C126	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C127	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C128	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C129	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C130	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C131	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C132	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C133	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C134	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C135	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C136	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C137	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C138	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C139	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C140	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C141	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C142	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C143	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C144	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C145	47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C146	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C147	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C148	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C149	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C150	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C151	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C152	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C153	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C154	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C155	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C156	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C157	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C158	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C159	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C160								
C161	.22			CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C162								
C163	.22			CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C164	.330				CPR-330J	SX330	MS-333	MS-333
C165	.330				CPR-330J	SX330	MS-333	MS-333
C166	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C167	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C168	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C169	.10			CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C170	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C171	.10			CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C172	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C173	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C174	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C175	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C176	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C177	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C178	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C179	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C180	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C181	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C182								
C183	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C184								
C185	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C186	.33			CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C187	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C188	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C189	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C190	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C191	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C192	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C193	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C194	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C195	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C196	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C197	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C198	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C199	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C200	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C201	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C202	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C203	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C204	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C205	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C206	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C207	.47			CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C208	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C209	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C210	.33			CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C211	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C212	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C213	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C214	.33			CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C215	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C216	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C217	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C218	.33			CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C219	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C220	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10

TEABERRY MODEL TWIN "T"

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS(cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C221	33			CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C222	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C223	100			CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C224	100			CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C225	330		GPD X5F331K	CCD-331	DD-331	GP330	GP333	10TS-T33
C226	100			CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C227	100			CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C228								
C229	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C230	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C231	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C232	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C233	.047		TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C234	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C235	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C236	.04			CCD-103	DD-403		GP140	

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

ITEM No.	FUNCTION	RESIST- ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	5000		F2-5000 (1), SRS014		Q13-114(1) or [BU1(1),CF60, SS1,DC1]*	RU53A,SL36,SL3250 or [UA53A(1), SN1000] or U12(1)
R2	Squelch	1000		F1-1000 (1), SRS014	A47-1000-S(1), RS-2 or [NP-1000-S(1), UP-A-400]	Q11-108(1) or [BU1(1),CF6,SS1, DC1]*	RU13L,SL36,SL3250 or [UA13L(1), SN1000] or U4(1)
R3	RF Gain	1000		F1-1000(1), SRS014	A47-1000-S(1), RS-2 or [NP-1000-S(1), UP-A-400]	Q11-108(1) or [BU1(1),CF6,SS1, DC1]*	RU13L,SL36,SL3250 or [UA13L(1), SN1000] or U4(1)
R4	Meter Calibrate (CAL)	5000		F1-5000(1), SRS014	A47-5000-S(1), RS-2 or [NP-5000-S(1), UP-A-400]	Q11-114(1) or [BU1(1),CF8,SS1, DC1]*	RU53L,SL36,SL3250 or [UA53L(1), SN1000] or U14(1)
R5	Bias	50K		TSV-50K or T-50K		X201R503B	MTC54L1
R6	"SSB" Bias	50K		TSV-50K or T-50K		X201R503B	MTC54L1
R7	Modulation Adjust	5000		TSV-5K or T-5000		X201R502B	MTC53L1
R8	Carrier Balance	1000		TSV-1K or T-1000		X201R102B	MTC13L1
R9	"SSB" Balance	50K		TSV-50K or T-50K		X201R503B	MTC54L1
R10	Voltage Adjust	10K		TSV-10K or T-10K		X201R103B	MTC14L1

* "SNAPTROL"

(1) Enlarge Mounting Hole.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R153	.47 4W	WT47	

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Receive Antenna Input				
L2	RF				
L3	RF				
L4	Synthesizer Oscillator				
L5	AM-USB Oscillator				
L6	LSB Oscillator				
L7	Synthesizer Mixer				
L8	Synthesizer Output				
L9	Input IF				
L10	2nd Receive Oscillator				
L11	Interstage IF		16-9026	8517	
L12	Interstage IF		16-9027	8517	
L13	Interstage IF		16-9028	8518	
L14	RF Choke		19-2027	72F224AP	T312
L15	SSB Interstage IF				
L16	SSB Interstage IF				
L17	SSB Interstage IF				
L18	SSB Noise				
L19	RF Choke		19-2027	72F224AP	T312
L20	Carrier Oscillator				
L21	SSB IF Input				
L22	SSB Interstage IF				
L23	XMTR. Buffer				
L24	XMTR. Buffer				
L25	XMTR. Buffer				
L26	RF Choke		19-1002 (1)	74F226AP (1)	T812 (1)
L27	XMTR. Driver				
L28	RF Choke		19-1002 (2)	74F226AP (2)	T812 (2)
L29	XMTR. Tune				
L30	Antenna Tune				
L31	TVI Trap		19-2016	72F105AP	T823

(1) Shunt with 1000 Resistor.

(2) Shunt with 5600 Resistor.

TEABERRY MODEL TWIN "T"

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @290MA AC	33VAC/CT @990MA DC	(W41-401)				

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.	
T2	1.5	1		(CLI-021)				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	18 CT	8	(CLM-040)				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	3-1/2 x 3-1/2 - 8 ohms		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
F1	2A Fuse			AGC2	HKP-44	312002	342012	
F2	2A Fuse							

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay, Xmit Receiver	(SRE2D21)	
M1	Meter, PWR/SWR/"S"		
M2	XTAL 8.450MC		
M3	XTAL 8.500MC		
M4	XTAL 8.550MC		
M5	XTAL 8.600MC		
M6	XTAL 8.650MC		
M7	XTAL 8.700MC		
M8	XTAL 13.3165MC		
M9	XTAL 13.3265MC		
M10	XTAL 13.3365MC		
M11	XTAL 13.3565MC		
M12	XTAL 13.3735MC		
M13	XTAL 13.3235MC		
M14	XTAL 13.3335MC		
M15	XTAL 13.3535MC		
M16	XTAL 4.7450MC		
M17	XTAL 5.1985MC		
M18	XTAL 5.2015MC		
M19	XTAL Filter, 455KC	(LF-B)	
M20	XTAL Filter, 5.2MC	(G5040)	
S1	Switch, Selector		
S2	Switch, Selector		
S3	Switch, Selector		
S4	Switch, Blanker		
S5	Switch, PA/CB		
S6	Switch, Power		

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.)



PHOTOFACT®

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 TITAN IIA

RECEIVER ALIGNMENT

Suggested Alignment Tools: A1 thru A4, A8, A10 thru A13, A15, A16, A22 thru A24

GC ELECTRONICS #8606, 8869, 9295

A5, A6, A7, A9, A14, A17 thru A21.....GC ELECTRONICS #8868, 9089

Connect an AC VTVM across speaker voice coil. Set Volume control fully clockwise and squelch control counter-clockwise.

TRAM MODEL TITAN IIA

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
	Any	A8	Connect a DC VTVM to pin 7 (grid), V2 (1st Rec. Osc.) Adjust for approximately -5 Volts.
High side thru .01mfd to pin 7 (Grid) of V3A (2nd Rec. Mixer), low side to chassis.	Any	A1 thru A4	Set Mode switch to AM. Adjust for maximum.
High side thru .01mfd to antenna receptacle, low side to chassis. Tune to 26.975MC (Ch. 2)	2	A5	Set mode switch to M. Set Dial to channel 2. Adjust for maximum, then disconnect signal generator. (Press spot switch. Output indication should be observed on "S" Meter.
High side thru .01 to antenna receptacle, low, low side to chassis. Tune to 27.085MC. (Ch. 11)	11	A9 thru A11	Set mode switch to M. Tune dial to channel 11. Detune A10 slightly. Adjust A9, A11 for maximum. Check spot switch operation as explained in step 3.
High side thru .01mfd to antenna receptacle, low side to chassis. Tune to 26.965MC. (Ch. 1)	1	A10, A7	Set mode switch to M. Tune to channel 1. Adjust for maximum. Check Spot-switch operation as explained in step 3.
High side thru .01 to antenna receptacle, low side to chassis. Tune to 27.225MC (Ch. 22)	22	A6	Set mode switch to M. Tune dial to channel 22. Adjust for maximum. Check spot-switch operation as explained in step 3. Tune thru all channels. Outputs should be equal.
	Any	R7	Adjust so S meter reads zero with no signal.

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

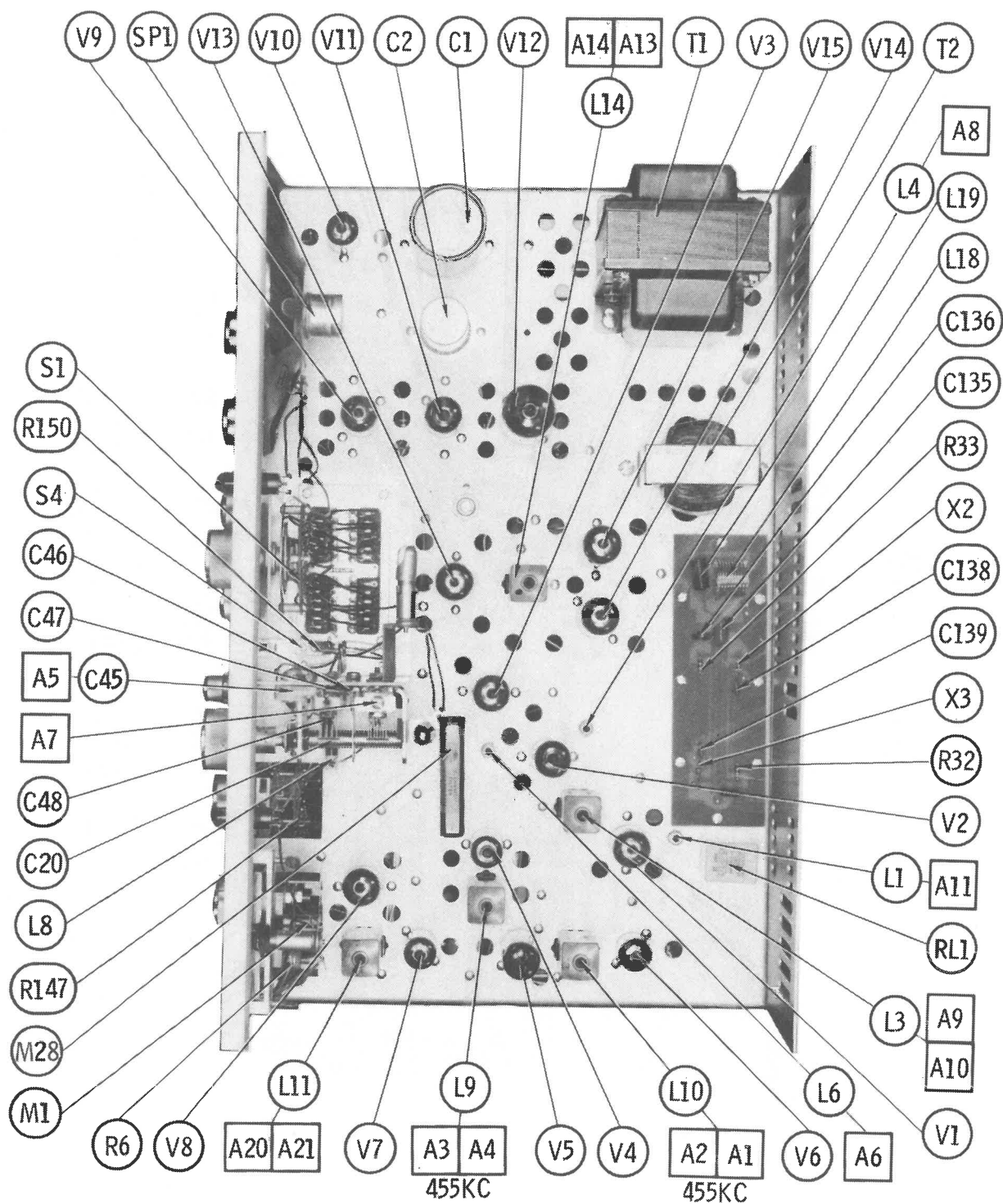
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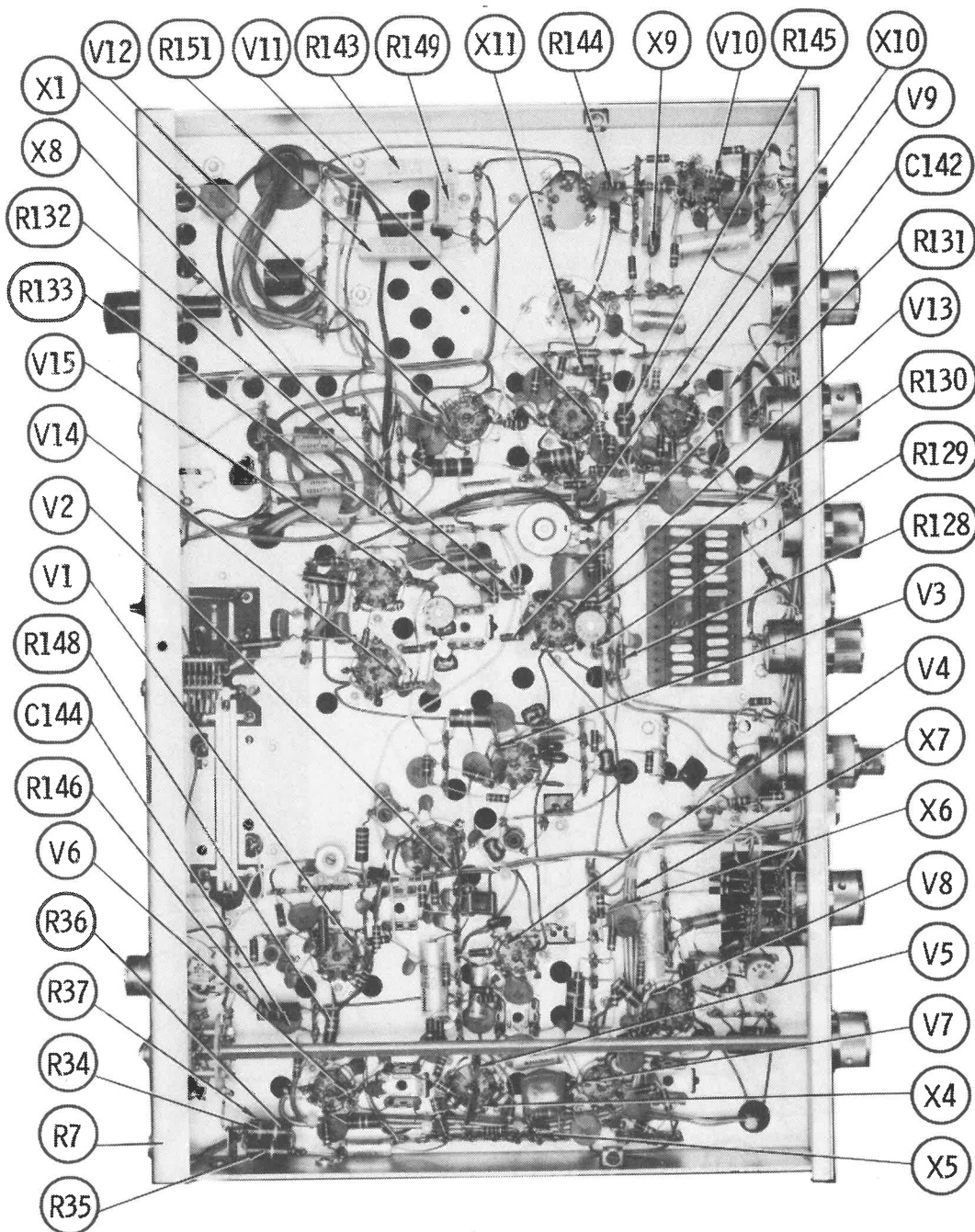
RECEIVER ALIGNMENT

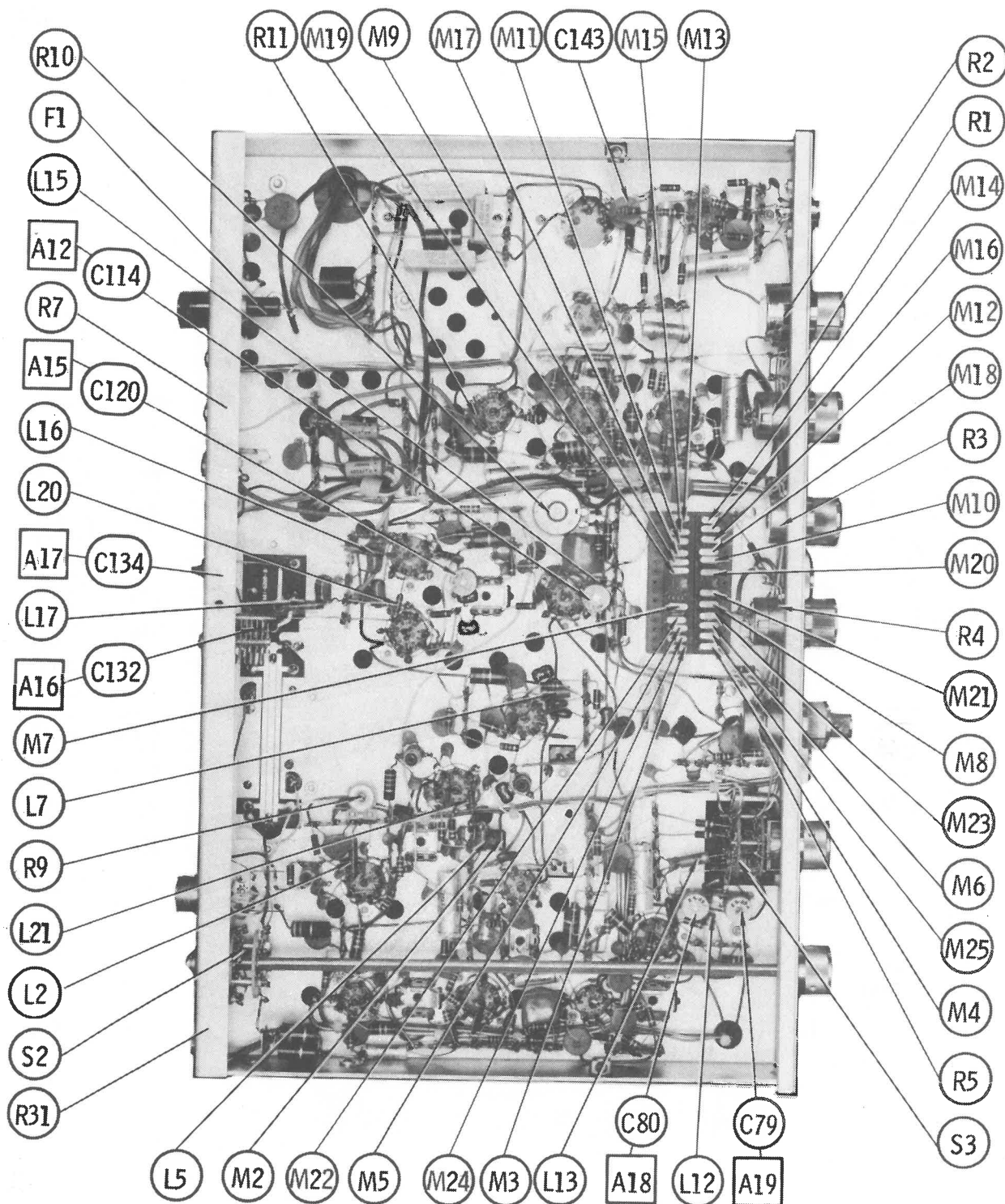
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to antenna receptacle, low side chassis. Tune to 27.085MC (Ch. 11) (50 micro volts output).	11	R2,R10	Set mode switch to M. Tune dial to channel 11. Adjust R2 for 5-9 indication on "S" meter. Increase the signal 40db and adjust R10 for 40db over 5-9. Repeat until no further improvement is noted.
High side thru .01mfd to Pin 7 (Grid) of V3A (2nd Rec. Mixer), low side to chassis. Tune to 460KC.	Any	A18	Set mode switch to LSB. Adjust for zero beat.
High side thru .01mfd to pin 7 (Grid) of V3 (2nd Rec. Mixer) low side to chassis.		A19	Set mode switch to USB. Adjust for zero beat.
Tune to 450KC	Any	A20,A21	Set mode switch to USB. Tune generator to produce a 1000-cycle beat. Adjust for maximum audio output. Set mode switch to LSB and retune generator for 1000-cycle beat. The audio level should be approximately equal to the audio level received on USB. If not, retune A20,A21 so that the 1000CPS beats are equal.

TRANSMITTER ALIGNMENT

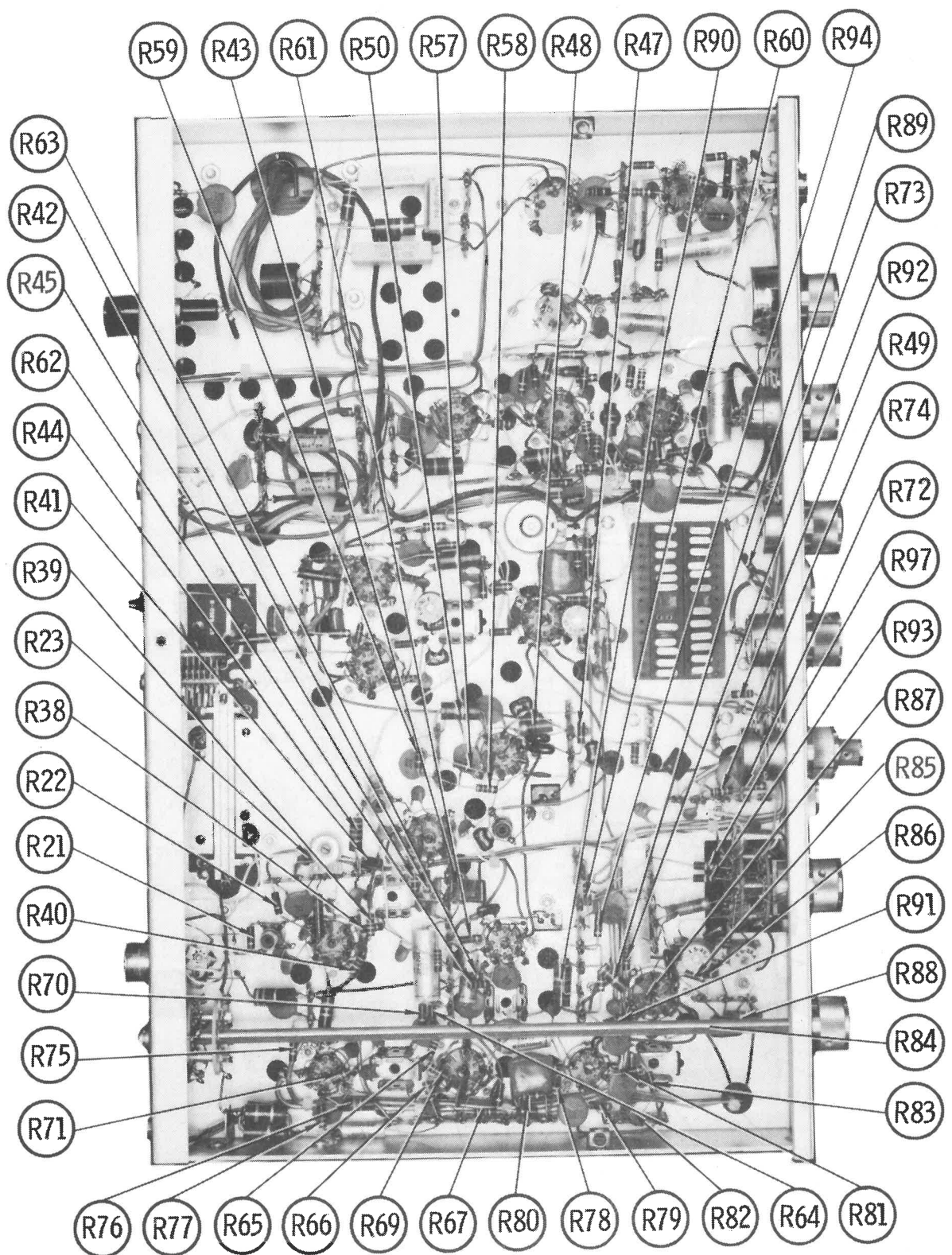
INDICATOR	ADJUST	REMARKS
DC VTVM connected to Pin 2 of V14 (Final Amp). Common to ground.	A13 thru A15	Set S3 (Meter Switch) to PWR Int. Load. Set Channel Selector to channel 12. Key Transmitter. Adjust A15 for maximum. Detune A14 and tune A13 for maximum. Adjust A14 & A15 for maximum.
RF Wattmeter or Field Strength Meter or Power Meter on front panel.	A16,A17	Adjust for maximum.
Accurate frequency Meter.	A12	Check for on-freq. operation. If all channels are off in same direction, A12 may be used for correction. Individual channel variations are usually a result of defective crystals.
DC VTVM connected to Pin 2 (Suppressor grid) of V10 (Mic Pre-Amp) and Moduation Indicator Lamp.		Observe 12 to 15 volt meter fluctuation on loud passages while speaking into microphone.
Accurate RF Wattmeter or Field Strength Meter.	R7	Set S2 Meter Switch on PWR Ant. Key XMTR. Adjust control so that panel meter reads the same as external wattmeter.
Front Panel Meter	R6	Set Meter Switch to SWR cal. Tune to clear channel and Key XMTR. Adjust so that meter needle is on the line marked SWR cal on front of meter.

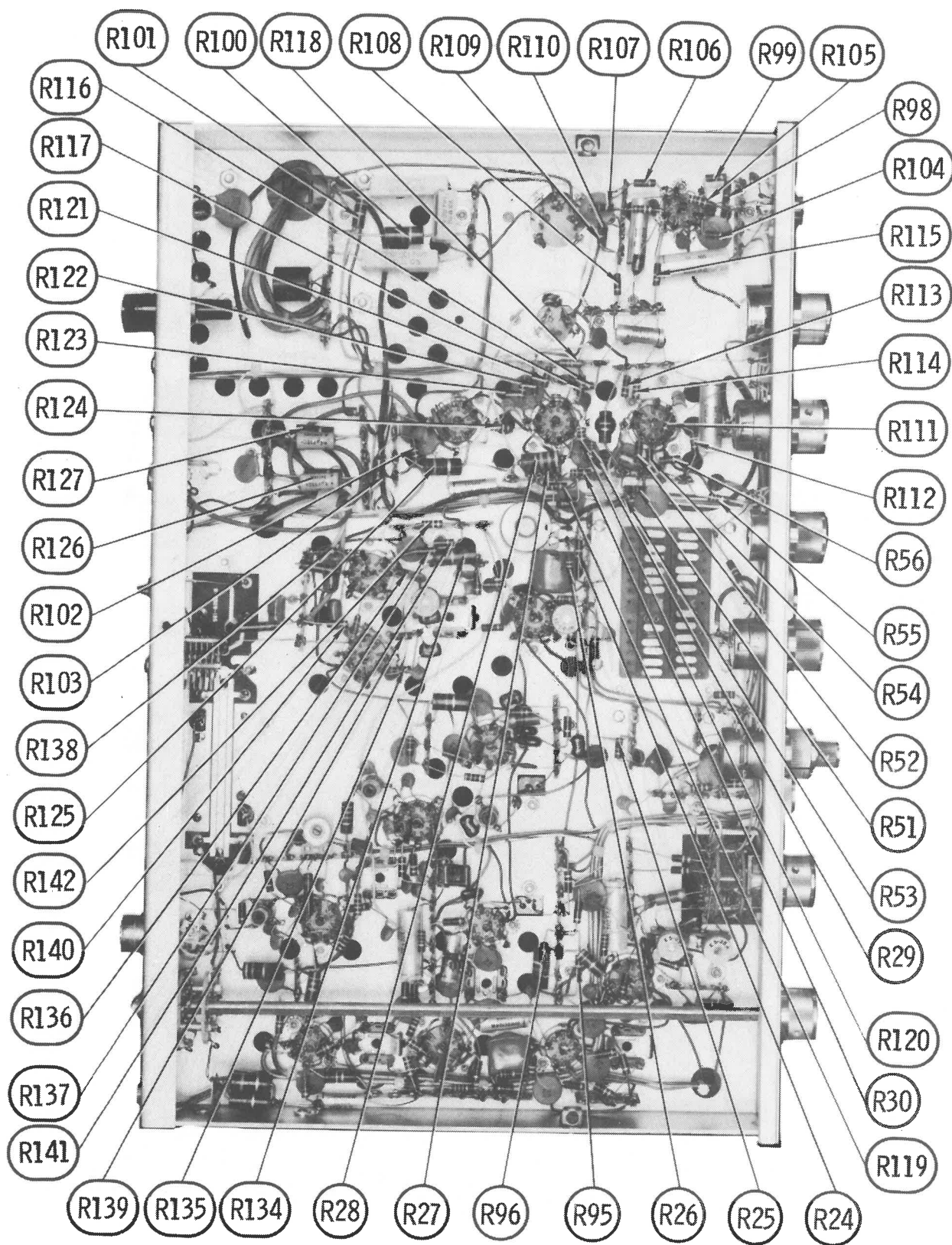




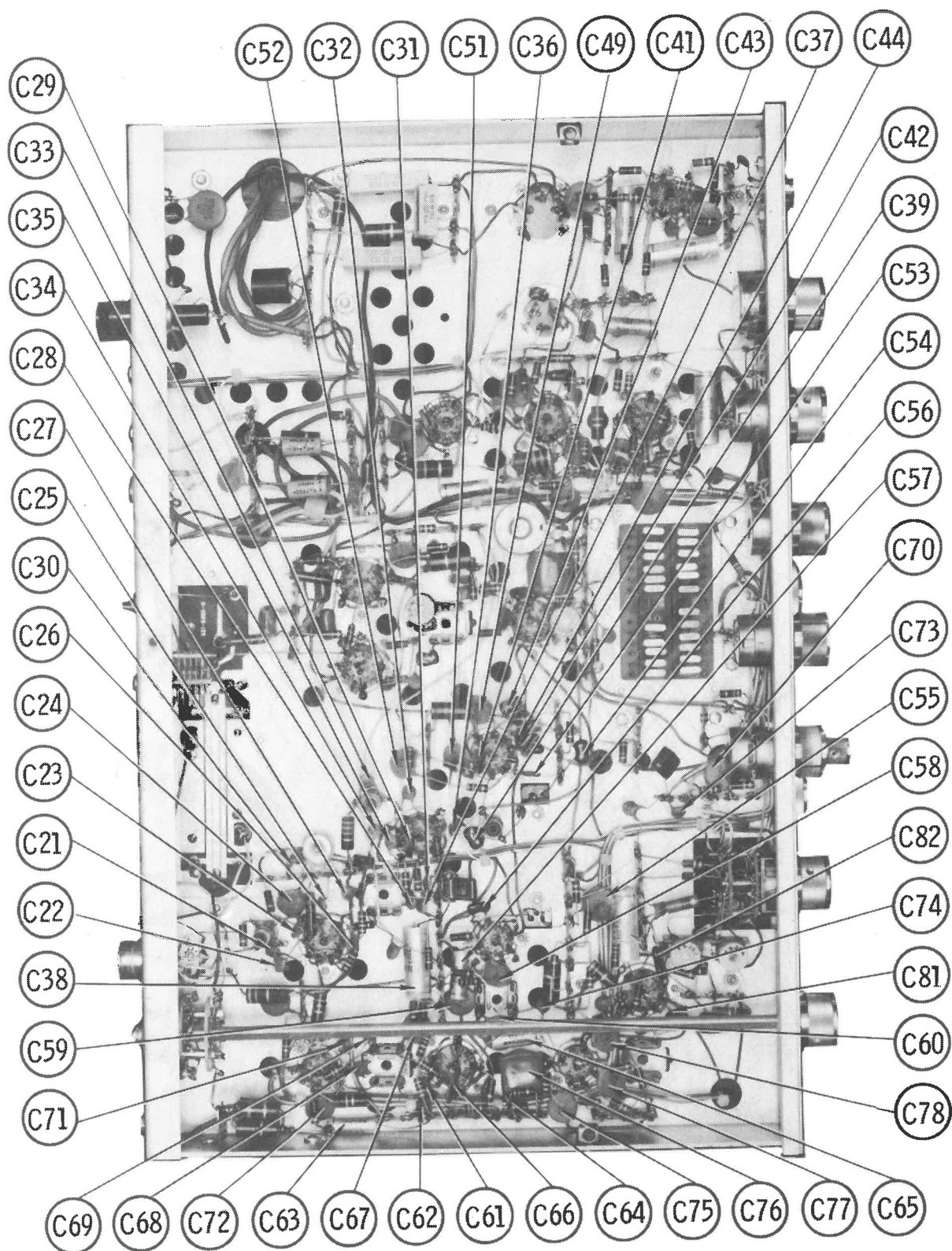


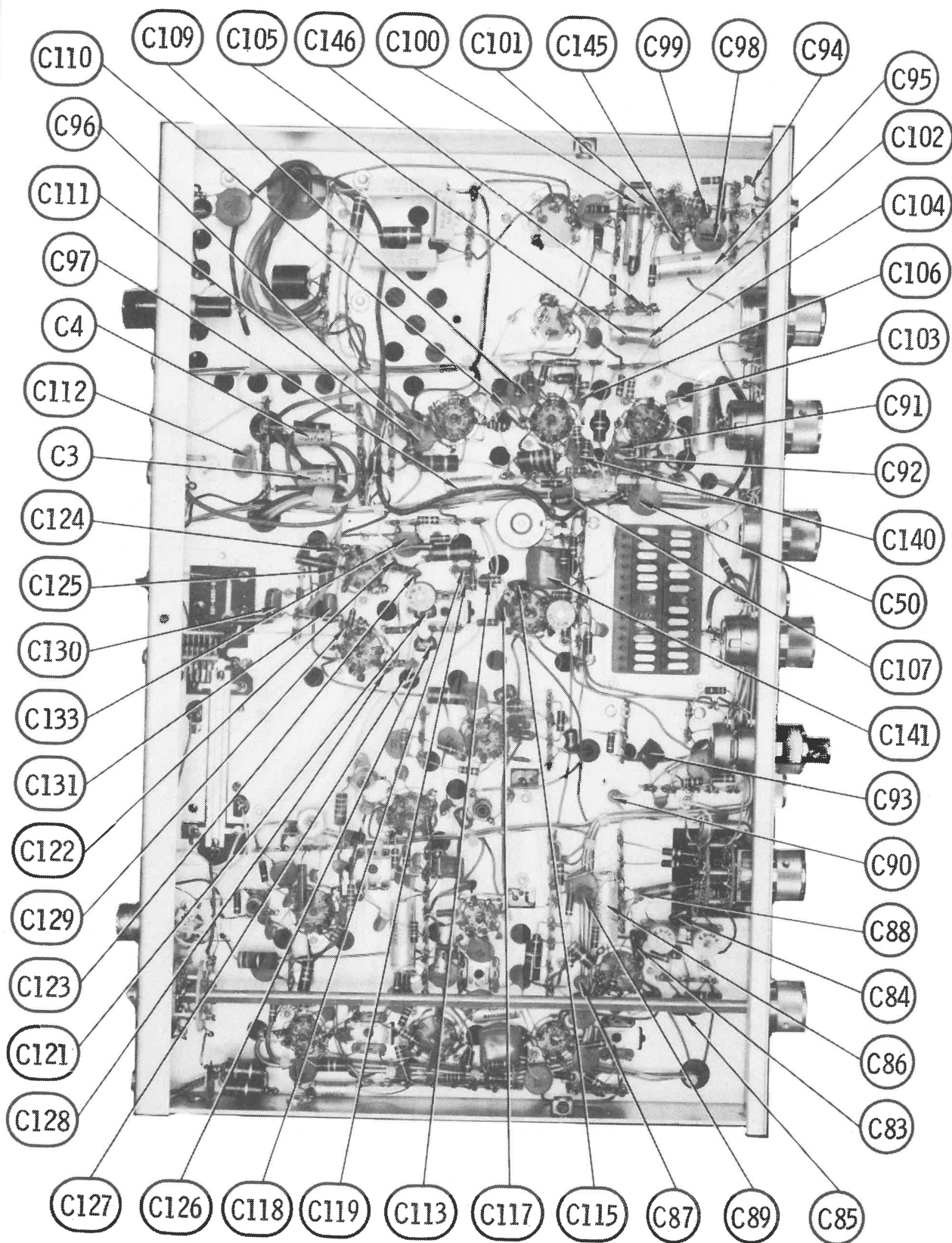
TRAM MODEL TITAN IIA

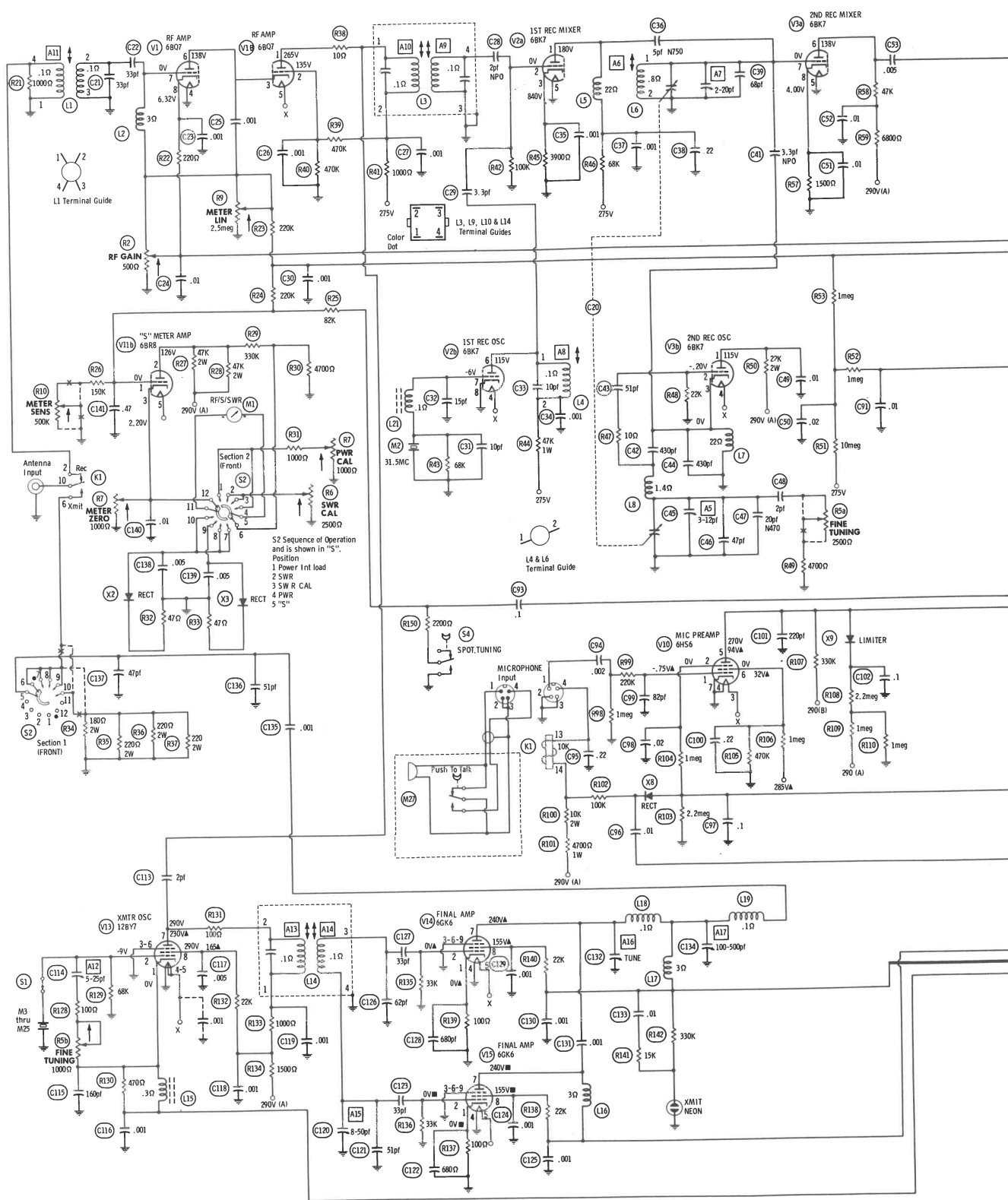




TRAM MODEL TITAN IIA

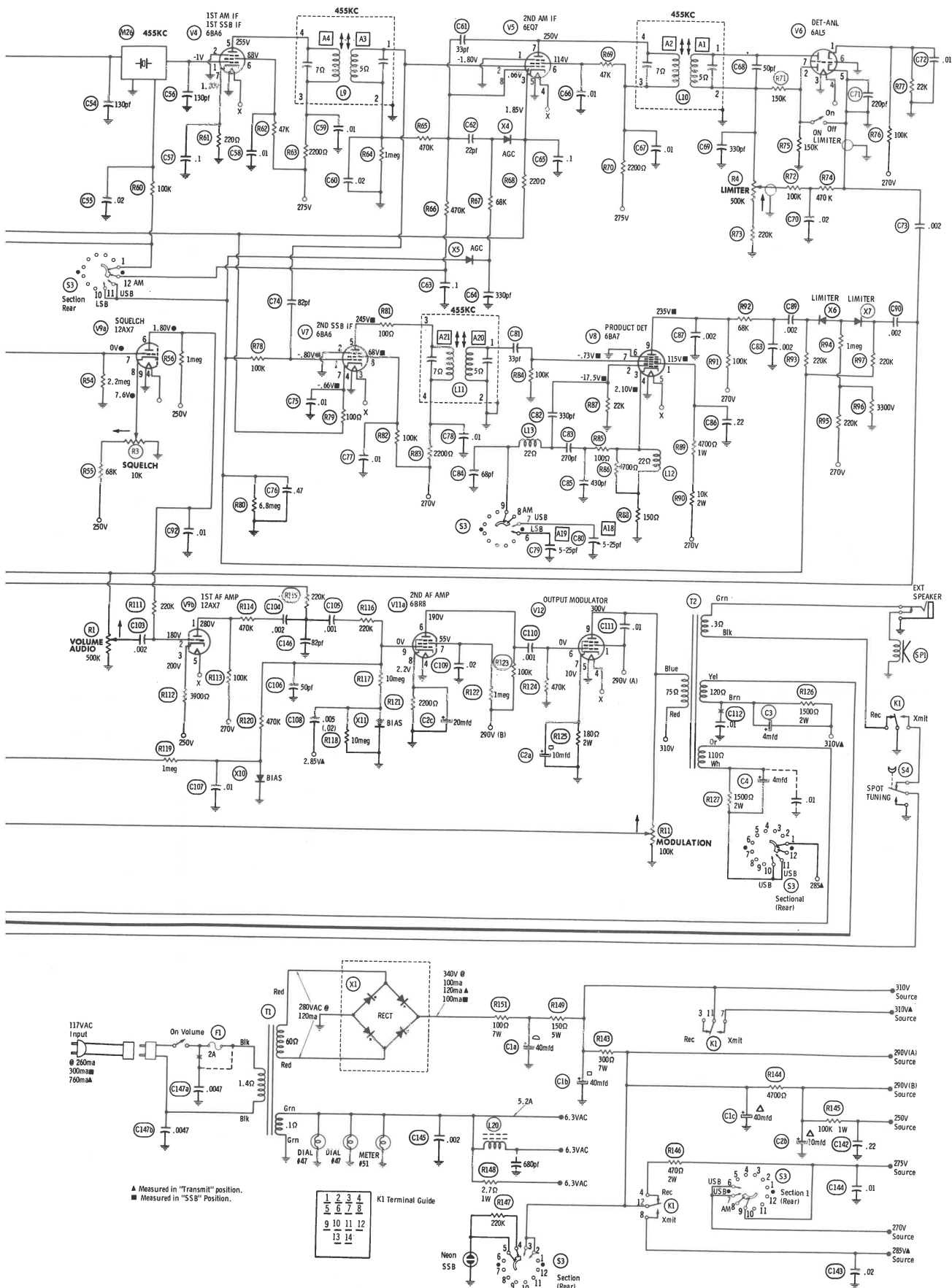






⚡ Denotes ground. (Voltage reference unless otherwise indicated).
 --- Indicates connection used in some versions.
 * Indicates connection not used in some versions.
 * Omitted in some versions.
 e See parts list.
 Measurements taken with switching in position shown unless otherwise indicated.
 Values shown in (1) are used in some applications.
 Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated.
 Supply voltage maintained at rated value for measurements.
 Voltage and resistance measured with VTVM or equivalent meter.
 No signal applied and controls adjusted for normal operation.
 Arrow on control indicates direction of advance.
 Numbers assigned to terminals may not be found on the unit.
 Transistor resistances vary widely. No resistance measurements taken.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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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.)

TUBES

AMPEREX			GENERAL ELECTRIC			RCA			SYLVANIA		
ITEM No.	USE	TYPE				ITEM No.	USE	TYPE			
V1	RF	6BQ7A				V9	Squelch - 1st AF Amp	12AX7			
V2	1st Receiver Mixer - Osc.	6BK7B				V10	Mic Preamp	6HS6			
V3	2nd Receiver Mixer - Osc.	6BK7B				V11	"S" Meter Amp - 2nd AF Amp	6BR8			
V4	1st AM - 1st SSB	6BA6				V12	Output - Modulator	6GM5			
V5	2nd AM	6EQ7				V13	XMTR Oscillator	12BY7			
V6	Detector-ANL	GAL5				V14	Final Amp	6GK6			
V7	2nd SSB	6BA6				V15	Final Amp	6GK6			
V8	Product Detector	6BA7									

SEMICONDUCTORS

SEMICONDUCTORS			REPLACEMENT DATA					
ITEM No.	TYPE No.	MFR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	MOTOROLA PART No.
X1	PD-1567		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X2	1N67A		1N34AS	1N34A	PTC206	SK3087	ECG 109	
X3	1N67A		GE-300	D200	PTC214	SK3100	ECG 177	
X4	1N4454		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
X5	CER71				PTC202	SK3031	ECG 117	
X6	1N4454		GE-300	D200	PTC214	SK3100	ECG 177	
X7	1N4454		GE-300	D200	PTC214	SK3100	ECG 177	
X8	CER71		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X9	CER71		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X10	CER71		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	
X11	CER71		GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	ECG 116 or	
					PTC202	SK3031	ECG 117	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA							
		MFR. PART No.	AEROVOX PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1a	40 450V				CC0350A	XC3-40	RP345.2		CTM-3772
b	40 450V								
c	40 450V								
C2a	10 450V								
b	10 450V								
c	20 25V				CC0260A	XC3-23.1	FP377.1A		CTM-3656
C3	4 150V		CDE-953A	ME-3-N-004		WBR4-150	MT1-4	TT150X4	500D40F150CC7
C4	4 150V		CDE-953A	ME-3-N-004		WBR4-150	MT1-4	TT150X4	500D40F150CC7

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C20								
C21	33			CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C22	33			CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C23	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C24	.01		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C25	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C26	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C27	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C28	2 NPO		GPD COJ2R2K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C29	3.3 NPO		GPD COJ3R3K		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C30	.001		GPD X5F102K		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C31	10			CCD-102	DM-102	GP1000	SM210	2SS-D10
C32	15 N750			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C33	10		GPD U2J150K	CCTN-150		N15	CN7415	
C34	.001			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C35	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C36	5 N750		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C37	.001					N5	CN7515	
C38	.22		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C39	68		V1614P22	4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C41	3.3 NPO		ADM-15-680	VDM-20-68DS	CPR-68S	CD15ED680J03	SX468	MS-468
C42	430 500V		GPD COJ3R3K		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C43	51 500V		ADM-15-471	VDM-20-4315	CPR-430J	CD15FD431J03	SX343	MS-343
C44	430 500V		ADM-15-470	VDM-20-510J	CPR-47J	CD15ED510J03		MS-451
C45	3-12							
C46	47 500V		ADM-15-470	VDM-20-470J	CPR-47J	CD15ED470J03	SX447	MS-447
C47	20			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C48	2 NPO		GPD COJ2R2K		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C49	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C50	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C51	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C52	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C53	.005		TTP-005	CCD-502	CK-502	MGP005	TA250	TG-D50
C54	130 500V		ADM-15-120	VDM-20-1315	CPR-130J	CD15FD121J03	SX313	MS-313
C55	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C56	130 500V		ADM-15-120	VDM-20-131J	CPR-130J	CD15FD121J03	SX313	MS-313
C57	.1 200V		DBE2P1	1DP-2-104		DPMS2P1	PVC101	22SP10491WD3
C58	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C59	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C60	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C61	33			CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C62	22			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C63	.1 200V		TTP-1		CK-104		TA010	TG-P10
C64	330		GPD X5F331K	CCD-331	DD-331	GP330	GP333	10TS-T33
C65	.1 200V		TTP-1		CK-104		TA010	TG-P10
C66	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C67	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C68	50			CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C69	330		GPD X5F331K	CCD-331	DD-331	GP330	GP333	10TS-T33
C70	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C71	220		GPD X5F221K	CCD-221	DD-221	GP220	GP322	10TS-T22
C72	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C73	.002		GPD X5F202K	CCD-202	DM-202	GP2000	GP220	2SS-D20
C74	82			CCTO-820	DTZ-82	NP082	CN0482	10TCC-Q82
C75	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C76	.47		DBE2P47	2DP-5-474		DPMS2P47	PVC2047	2PS-P47
C77	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C78	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C79	5-2							
C80	5-25							
C81	33							
C82	330			CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C83	270 500V		GPD X5F331K	CCD-331	DD-331	GP330	GP333	10TS-T33
C84	68 500V		ADM-15-251	VDM-20-271J	CPR-270J	CD15FD471J03	SX327	MS-327
C85	430 500V		ADM-15-680	VDM-20-680J	CPR-68J	CD15ED680J03	SX468	MS-468
C86	.22 200V		ADM-15-471	VDM-20-431J	CPR-430J	CD15FD431J03	SX343	MS-343
C87	.002		V1614P22	4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C88	.002		GPD X5F202K	CCD-202	DM-202	GP2000	GP220	2SS-D20
C89	.002		GPD X5F202K	CCD-202	DM-202	GP2000	GP220	2SS-D20
C90	.002		GPD X5F202K	CCD-202	DM-202	GP2000	GP220	2SS-D20
C91	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C92	.01 400V		V1614S1	4DP-1-103	CPR-10000J	DPMS6S1	PVC411	4PS-S10
C93	.1				CK-104		TA010	TG-P10
C94	.002		TTP-1		DM-202		GP220	2SS-D20
C95	.22 400V		GPD X5F202K	CCD-202		DPMS4P22	PVC4022	4PS-P22
C96	.01		V1614P22	4DP-5-224		MGP01	TA110	TG-S10
C97	.1		TTP-01	CCD-103	CK-103	DPMS4P1	PVC401	4PS-P10
C98	.02		DBE4P1	4DP-3-104		MGP02	TA120	TG-S20
C99	82		TTP-02	CCD-203	CK-203	NP082	CN0482	10TCC-Q82
C100	.22 400V		V1614P22	CCTO-820	DTZ-82	DPMS4P22	PVC4022	4PS-P22

TRAM MODEL TITAN IIA

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	220		GPD X5F221K	CCD-221	DD-221	GP220	GP322	10TS-T22
C102	.1		TTP-1		CK-104		TA010	TG-P10
C103	.002		GPD X5F202K	CCD-202	DM-202	GP2000	GP220	2SS-D20
C104	.002		GPD X5F202K	CCD-202	DM-202	GP2000	GP220	2SS-D20
C105	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C106	50			CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C107	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C108	.005		TTP-005	CCD-502	CK-502	MGP005	TA250	TG-D50
C109	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C110	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C111	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C112	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C113	2	NPO	GPD C0J2R2K		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C114	5-25							
C115	160	500V	ADM-15-151	DM-10-151	CPR-160J	CD15FD151J03	SX316	MS-316
C116	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C117	.005		TTP-005	CCD-502	CK-502	MGP005	TA250	TG-D50
C118	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C119	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C120	8-50							
C121	51	500V	ADM-15-560	DM-10-510		CD15EDJ10J03		MS-451
C122	680		GPD X5F681K	CCD-681	DD-681	GP680	GP368	10TS-T68
C123	33			CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C124	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C125	.001	1000V	DBE16D1	16DP-2-102	DD30-102	DPMS20D1		16PS-D10
C126	62	500V	ADM-15-560	DM-10-620	CPR-62J		SX462J	MS-462
C127	33			CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C128	680		GPD X5F681K	CCD-681	DD-681	GP680	GP368	10TS-T68
C129	.001		GPD X5F102K	CCD-102	DM-102	GP1000	SM210	2SS-D10
C130	.001	1000V	DBE16D1	16DP-2-102	DD30-102	DPMS20D1		16PS-D10
C131	.001	1000V	DBE16D1	16DP-2-102	DD30-102	DPMS20D1		16PS-D10
C132								
C133	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C134	100-500							
C135	.001	1000V	GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C136	51	500V		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C137	47	500V		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C138	.005		TTP-005	CCD-502	CK-502	MGP005	TA250	TG-D50
C139	.005		TTP-005	CCD-502	CK-502	MGP005	TA250	TG-D50
C140	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C141	.47							
C142	.22	400V	DBE2P1	1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C143	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C144	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C145	.002		GPD X5F202K	CCD-202	DM-202	GP2000	GP220	2SS-D20
C146	82			CCTO-820	DTZ-82	NP082	CN0482	10TCC-Q82
C147a	.0047		GPD X5R472K	CCD-472	DD-472G	GP4700	JF247	10TS-D47
C147b	.0047		GPD X5R472K	CCD-472	DD-472G	GP4700	JF247	10TS-D47

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Audio/(Volume) Switch	500K	A-0093-1 (LF4422)	F2-500K,SRS010 KR-1	A47-500K-Z, RS-2,SWE-12 or [NP-500K-Z, UP-A-400,NWE-12]	B13-123,SK3, 76-1 or [BU1, CF25,SS3,GC]*	UA55A,SL2500,US41 or [RU55A,SL38, SL2500,US41] or [U48,US26]
R2	"RF" Gain	500	A-0184 (CM34698)	WW501 or WN501	A43-500,RS-2 or [NPW-500, NML-A-300]	AW500 or WPK500 or [BU1,WF20,	MR500B or VW500 or R500L
R3	Squelch	10K	A-0133-5 (RA3633)	F1-10K,SRS010	A47-10K-S,RS-2 or [NP-10K-S, UP-A-400]	B11-116,SK3 or [BU1,CF9,SS3, DC1]*	UA14L,SL2500 or [RU14L,SL38,SL2500] or U20
R4	Limiter/Switch	500K	A-0093-2 (LH5378)	F1-500K,SRS010 KR-1	A47-500K-S,RS-2, SWE-12 or [NP-500K-S, UP-A-400,NWE-12]	B11-133,SK3,76-1 or [BU1,CF16,SS3, GC]*	UA55L,SL2500,US41 or [RU55L,SL38, SL2500,US41] or [U50,US26]
R5a	Fine Tuning (Receiver)	2500	A-0335 (WB2039)	F1-2500, R1-1000,FFS010, RFS100	NP-2500-S, NR-1000-S, UPC-A-101(1), UR-D-100	≠QJ-2757R	P252L,3014,RU13L, OX625,IS1000
b	Fine Tuning (Transmitter)	1500					

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	RESISTANCE	REPLACEMENT DATA				
			MFG. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R6	SWR Calibrate	2500	A-0314 (308440)	JC-252			
R7	Meter Zero	1000	A-0092 (BE23374)	V-1000	U39-1000	112-1000 or (117R102A)	MR1000F
R8	Power Calibrate	1000	A-0092 (BE23374)	V-1000	U39-1000	112-1000 or (117R102A)	MR1000F
R9	"S" Meter Lin	2.5meg	A-0221 (SL7504)	TSV-2.2M or T-2meg		X201R205B	MTC26L1
R10	Meter Sensitivity	500K	A-0133-3 (MM9045)	F1-500K, SRS004	A47-500K-S, FKS-1/4 or [NP-500K-S, UP-S-010]	B11-133,SK2 or [BU2,CF16,SS2, DC1]*	UA55L,SK750 or [RU55L,SL38,SK750] or U8
R11	Modulation	100K	A-0221-4 (TS8859)	TSV-100K or T-100K		X201R104B	MTC15L1

* "CONCENTRIKIT" Equivalent: K-15 Kit with base elements & shafts: B11-111, P14-019 (Panel)
B11-108, R1-028 (Rear)

"SNAPTROL" Equivalent: BU4, CF86, CR2, SF2, SR3, DC1

* "SNAPTROL"

(1) Cut shaft to duplicate original.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFG. PART No.
R143	300 7W	7G-300	

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFG. PART No.
R149 R151	150 5W 100 7W	7G-100	

TRAM MODEL TITAN IIA

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Antenna Matching	A-0030		6224	
L2	RF Choke (15uh)	A-0095-4	19-2018	72F155AP	T862
L3	Receiver RF	A-0191			
L4	Receiver Oscillator	A-0029		4202	
L5	RF Choke (2.2uh)	A-0095-5		4666	T876
L6	Input IF	A-0052			
L7	RF Choke (2.2uh)	A-0095-5		4666	T876
L8	RF Choke (17uh)	A-0109		72F185AP	
L9	Interstage IF	A-0144-1		12-C30	
L10	Interstage IF	A-0144-1		12-C31	
L11	AGC IF	A-0144-1			
L12	RF Choke (2.2uh)	A-0095-5		4666	T876
L13	RF Choke (2.2uh)	A-0095-5		4666	T876
L14	XMTR Oscillator	A-0191			
L15	RF Choke (5.6uh)			74F566AP	T820
L16	RF Choke (15uh)	A-0095-4	19-2018	72F155AP	T862
L17	RF Choke (15uh)	A-0095-4	19-2018	72F155AP	T862
L18	Pi Filter	A-0127-1			
L19	Pi Filter	A-0126			
L20	RF Choke	A-0095-3		74F566AP	T820

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFG. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ .76A	280VAC @ 12A	B-0333-125				
	SEC. 2	SEC. 3					
	6.3VAC @ 5.2A						

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	4800	4	A-0226				
		SEC 2					
		.3 DC Resistance					
		SEC 3					
		130 DC Resistance					

SPEAKER

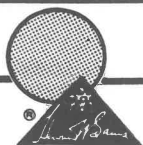
ITEM No.	TYPE		REPLACEMENT DATA		NOTES
			MFGR. PART No.	QUAM PART No.	
SP1	4" x 6"	3.2 ohms	A-0182	46A15	

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	2A			AGC 2	HKP	312002	342014	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	A-0135	31.50MC 13.4825MC (Ch. 1) 13.4875MC (Ch. 2) 13.4925MC (Ch. 3) 13.5025MC (Ch. 4) 13.5075MC (Ch. 5) 13.5125MC (Ch. 6) 13.5175MC (Ch. 7) 13.5275MC (Ch. 8) 13.5325MC (Ch. 9) 13.5375MC (Ch. 10) 13.5425MC (Ch. 11) 13.5525MC (Ch. 12) 13.5575MC (Ch. 13) 13.5625MC (Ch. 14) 13.5675MC (Ch. 15) 13.5775MC (Ch. 16) 13.5825MC (Ch. 17) 13.5875MC (Ch. 18) 13.5925MC (Ch. 19) 13.6025MC (Ch. 20) 13.6075MC (Ch. 21) 13.6125MC (Ch. 22) 13.6275MC (Ch. 23)
M1	Meter	A-0330-125	
M2	Crystal	A-0312-123	
M3	Crystal		
M4	Crystal		
M5	Crystal		
M6	Crystal		
M7	Crystal		
M8	Crystal		
M9	Crystal		
M10	Crystal		
M11	Crystal		
M12	Crystal		
M13	Crystal		
M14	Crystal		
M15	Crystal		
M16	Crystal		
M17	Crystal		
M18	Crystal		
M19	Crystal		
M20	Crystal		
M21	Crystal		
M22	Crystal		
M23	Crystal		
M24	Crystal		
M25	Crystal		
M26	Crystal Filter	A-0186	455KC
M27	Microphone		
S1	Switch, Selector	B-0320	
S2	Switch, Meter	B-0292	
S3	Switch, Mode	A-0247-B	
S4	Switch, Spot	A-0319	



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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 WILDCAT II

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

A1, A2, A3.....GC ELECTRONICS #8868, 9089

A4 thru A9.....GC ELECTRONICS #8606L, 9440

PEARCE-SIMPSON MODEL WILDCAT II

RECEIVER

Connect an AC VTVM across the speaker voice coil. Set volume control fully clockwise and squelch control fully counterclockwise.

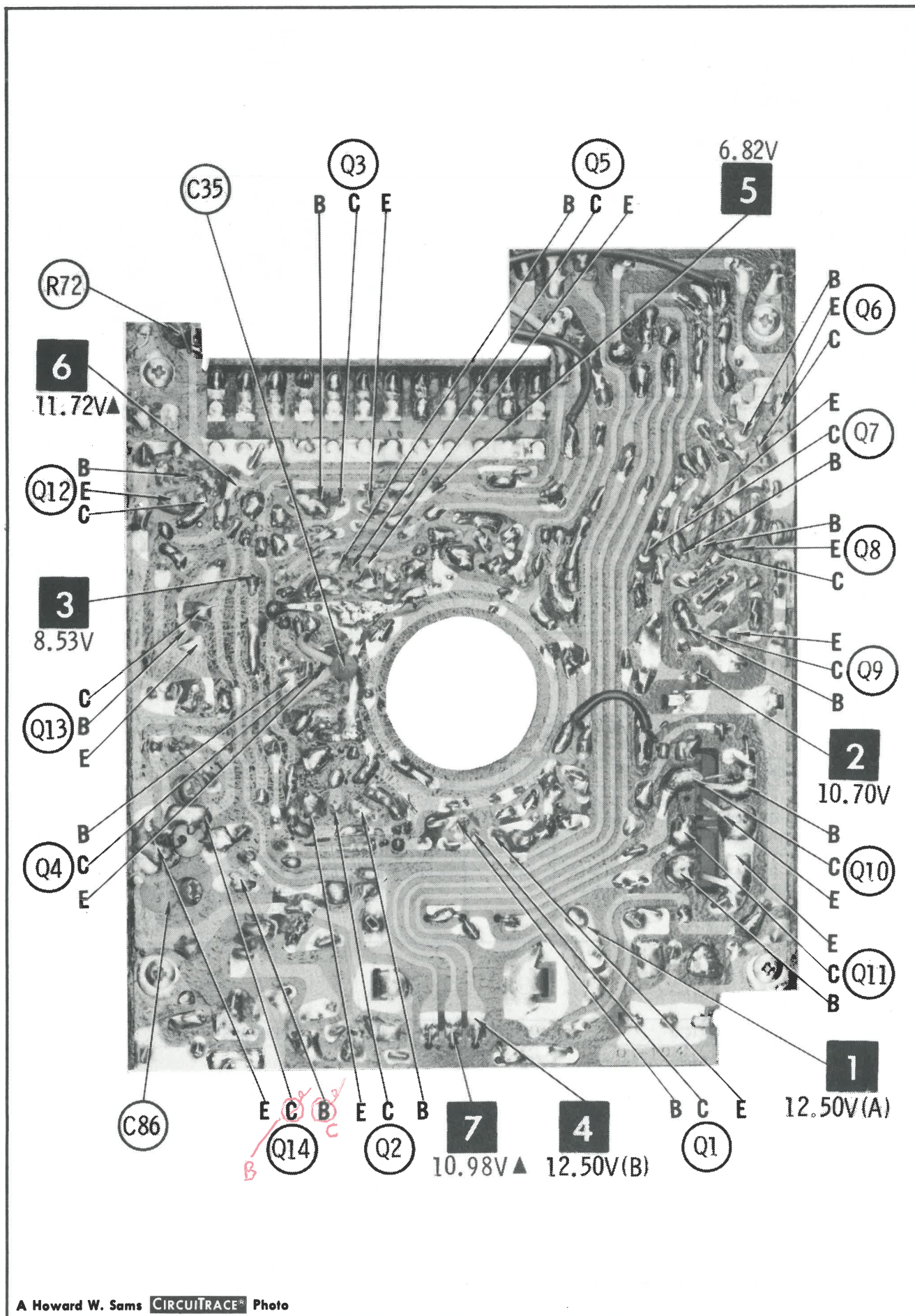
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
Connect high side through .01mfd to base Q2 low side to ground. Tune to 455KC (Mod)	Any	A1,A2,A3	Adjust for maximum.
Connect high side through .01mfd to antenna connector low side to ground. Tune to channel frequency.	(1)	A4,A5,A6	(1) Check Crystal (M3) frequencies and set generator accordingly. Adjust for maximum.

TRANSMITTER

INDICATOR	ADJUST	REMARKS
RF Wattmeter or Field Strength Meter	A7, A8	Adjust for maximum.
0-500ma DC Ammeter	A8	Remove meter jumper and insert meter. Readjust A8 for 5 Watts input to Q14 (Final Amp).
Television (Ch. 2)	A9	Adjust for MINIMUM interference.

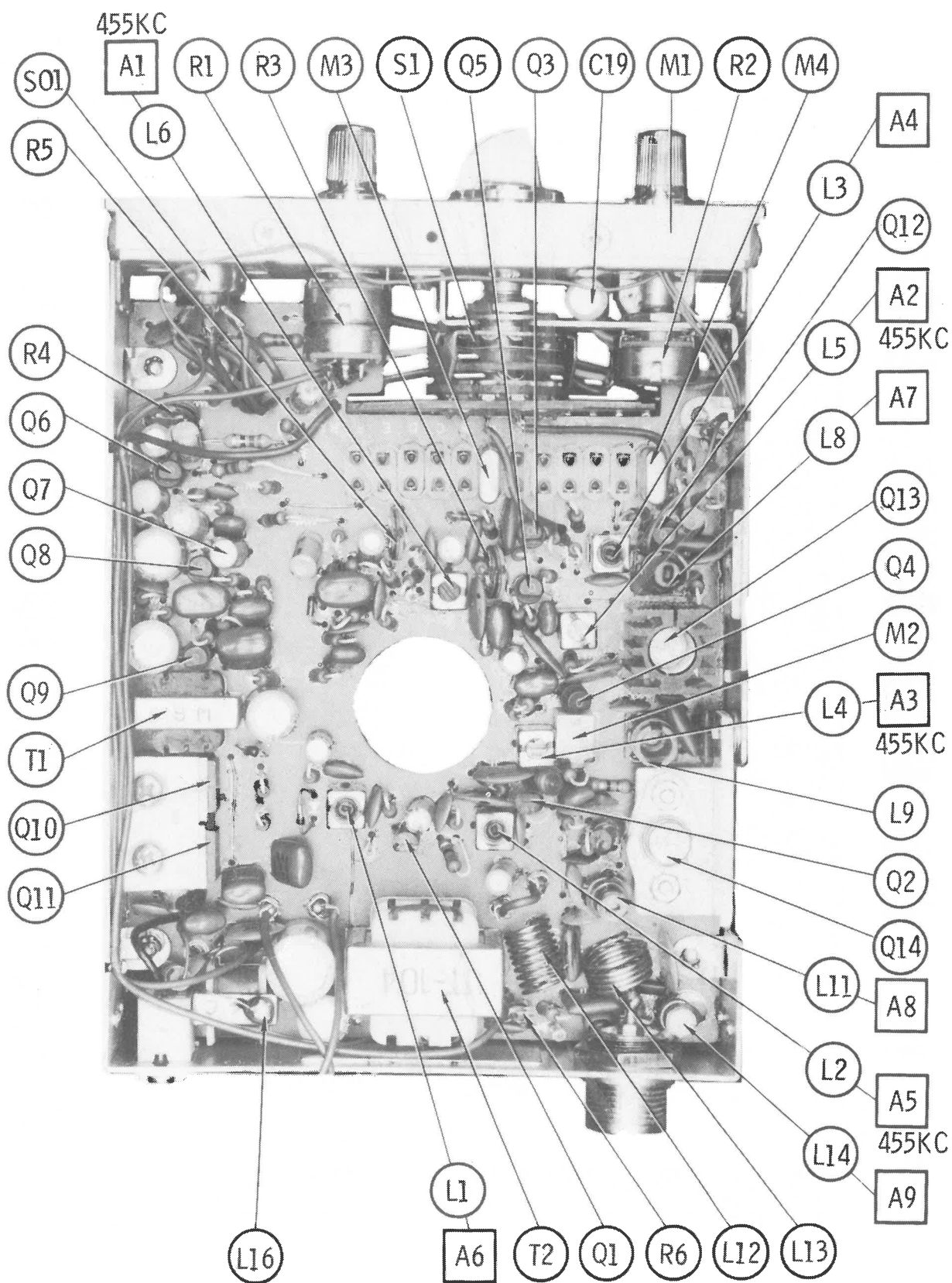
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

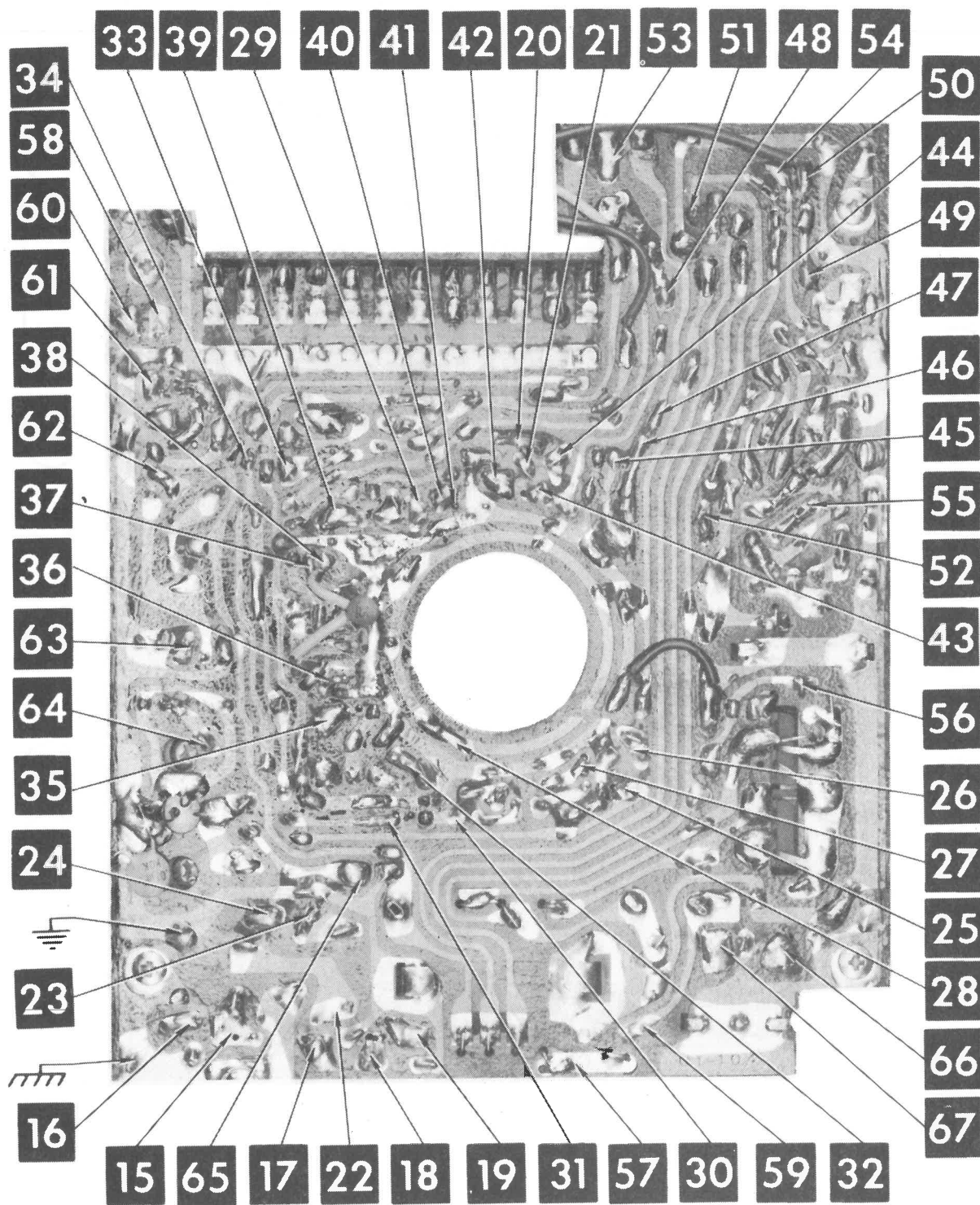
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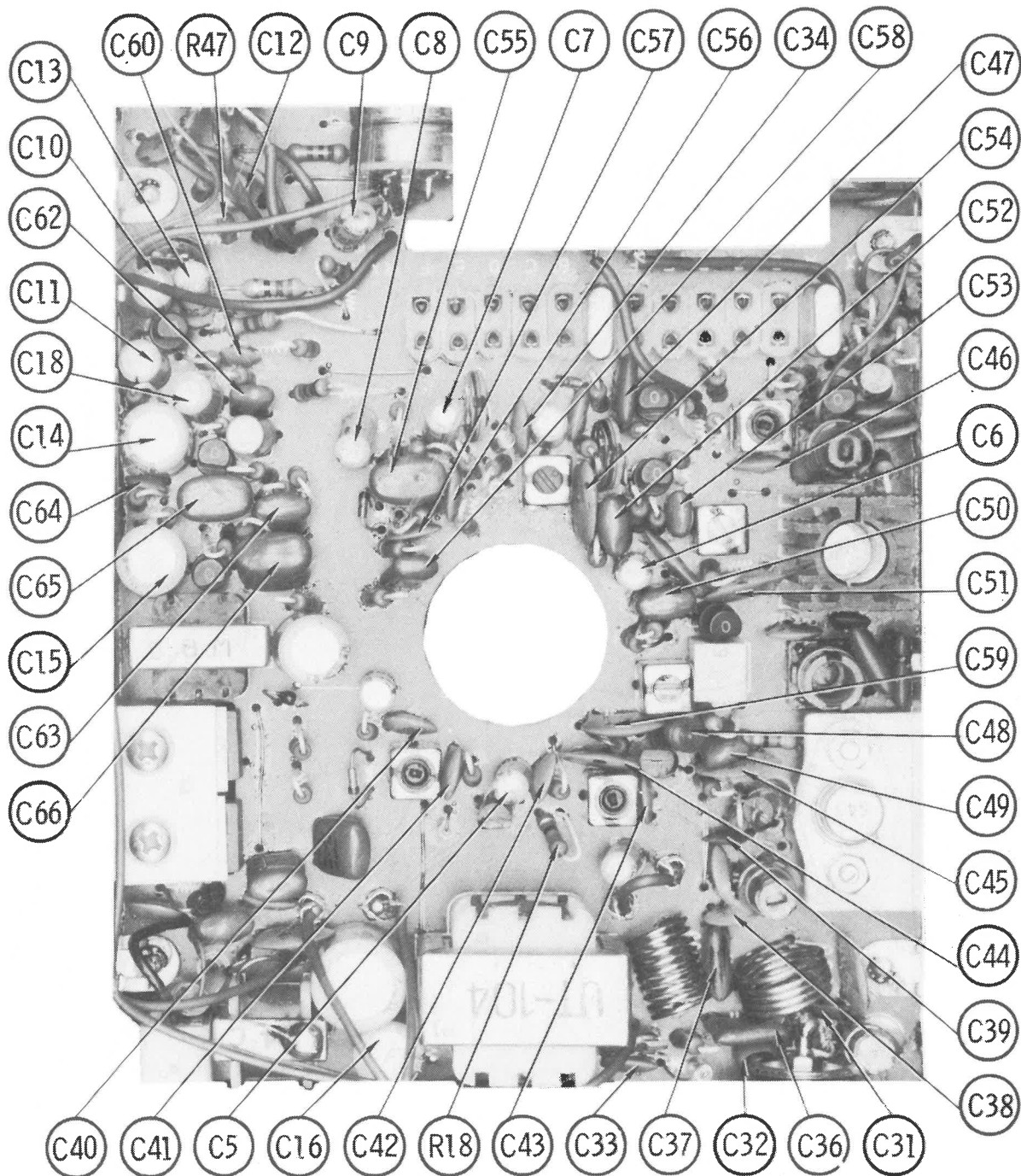


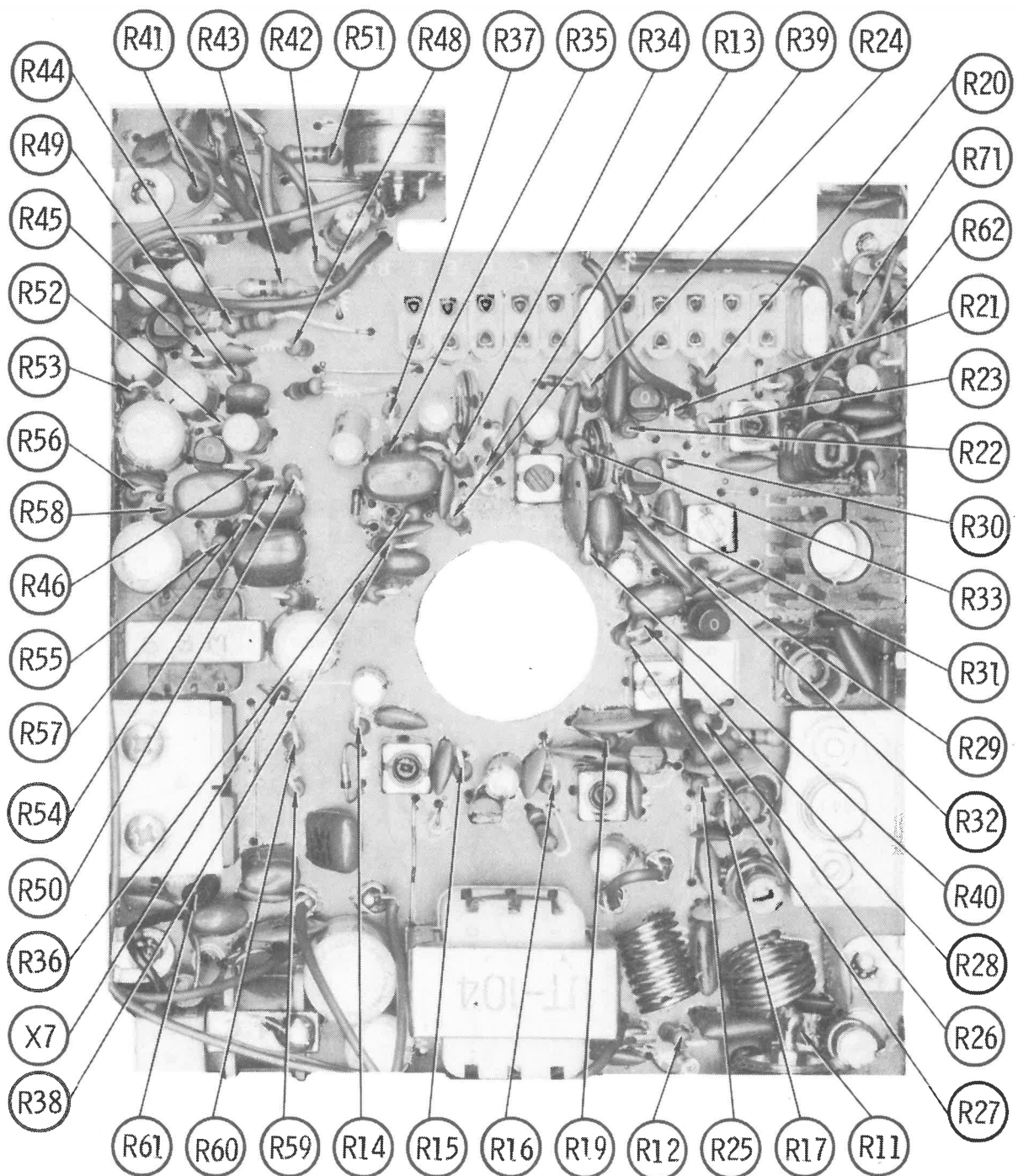
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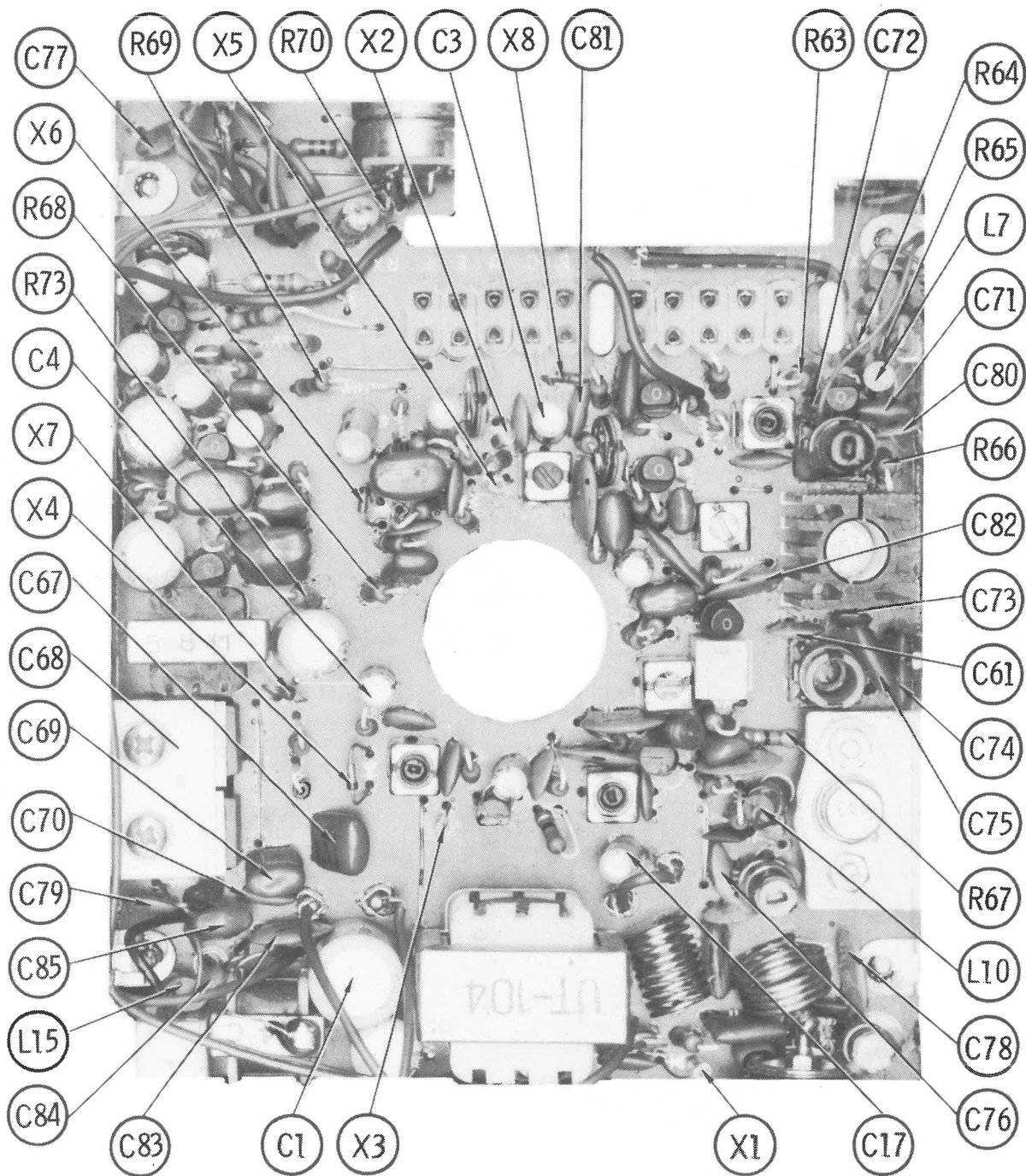
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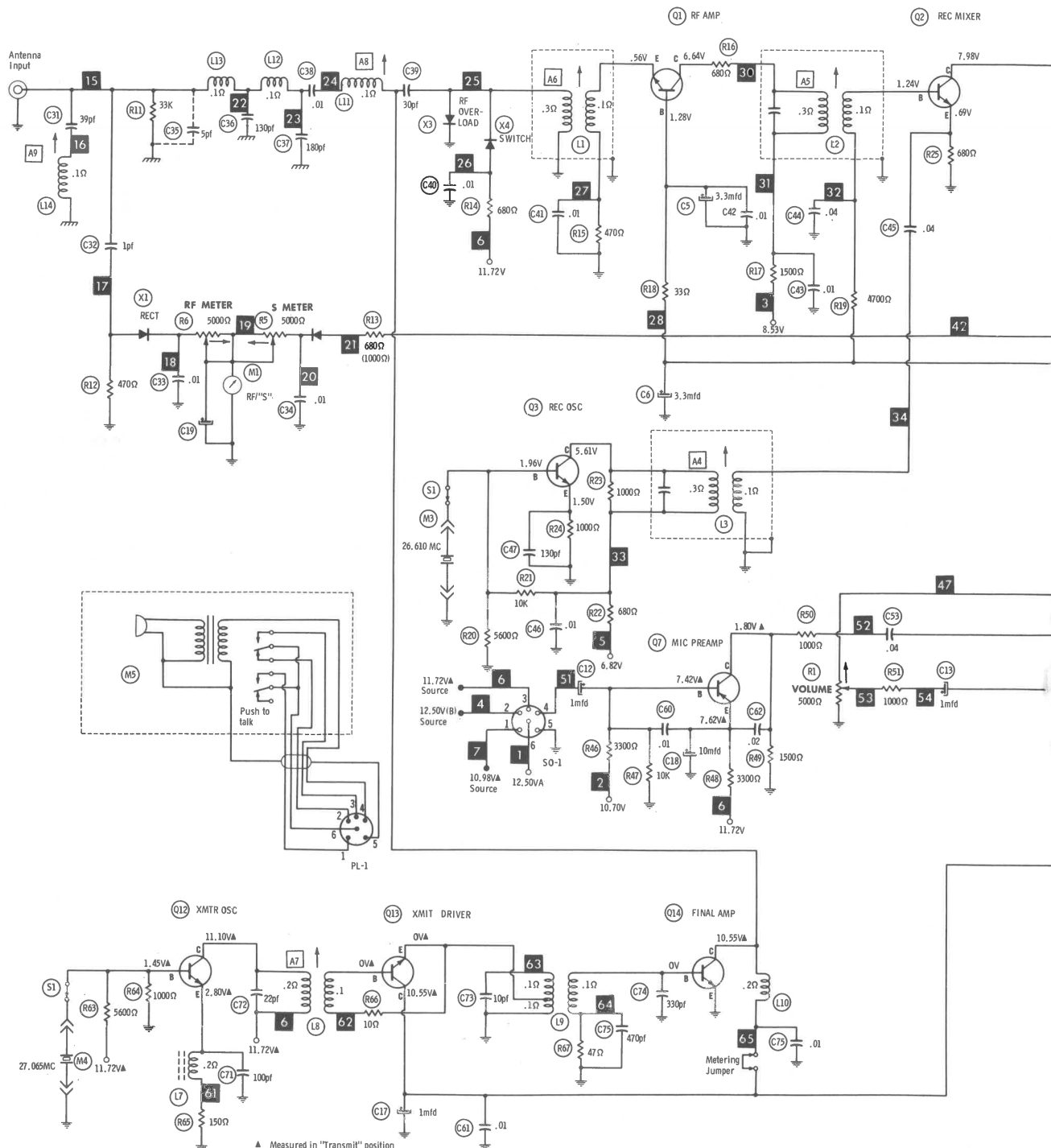








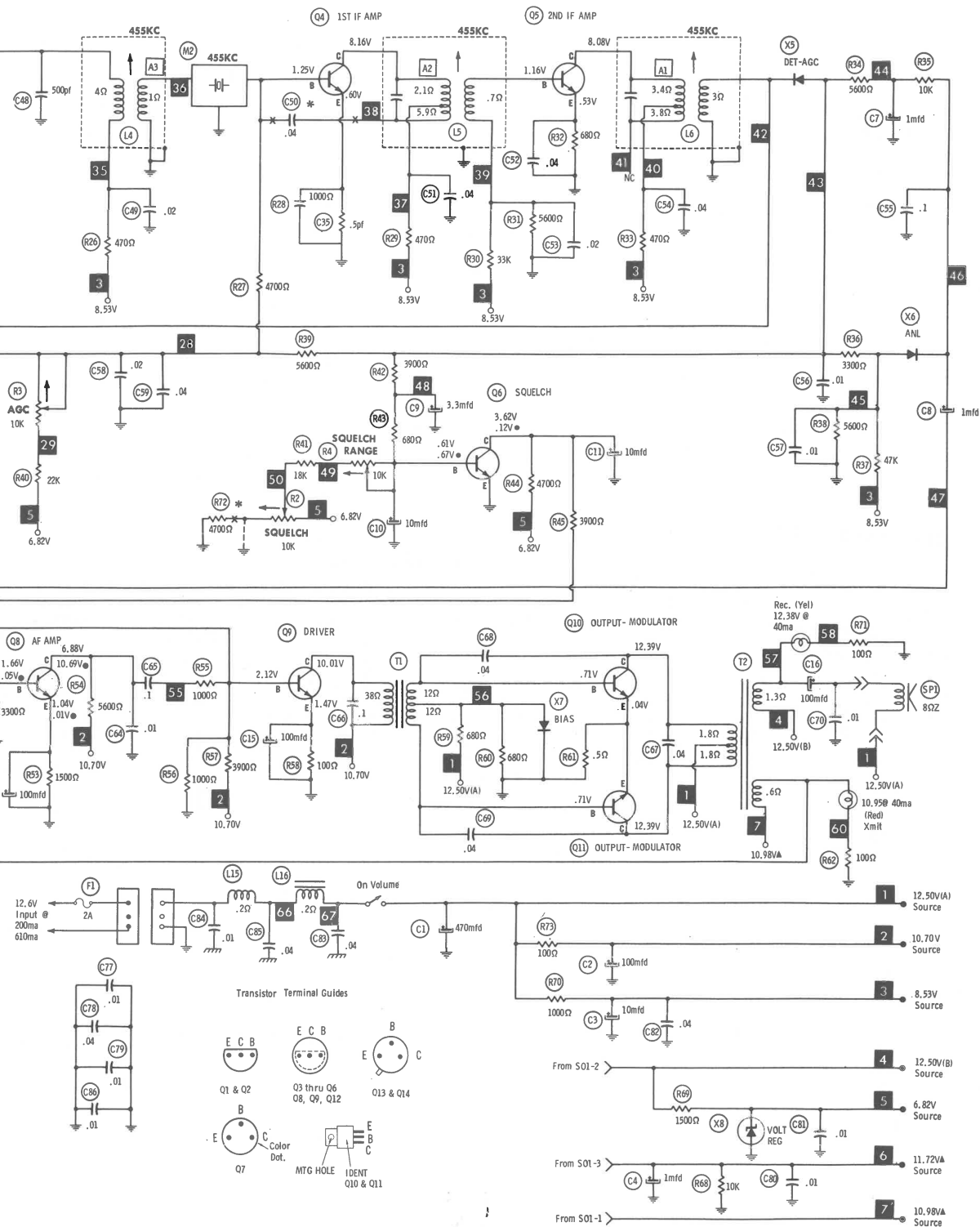




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with **CIRCUITRACE**

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PEARCE-SIMPSON MODEL WILDCAT II

PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA					
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	MOTOROLA PART No.
Q1	2SC839		GE-20	TR-24	PTC121	SK3018	ECG 123A	HEP728
Q2	2SC839		GE-20	TR-24	PTC121	SK3018	ECG 123A	HEP728
Q3	2SC372(0)		GE-10	IRTR-51	PTC121	SK3018	ECG 123A	HEP55
Q4	2SC372(0)		GE-10	IRTR-51	PTC121	SK3018	ECG 123A	HEP55
Q5	2SC372(0)		GE-10	IRTR-51	PTC121	SK3018	ECG 123A	HEP55
Q6	2SC372(0)		GE-10	IRTR-51	PTC121	SK3018	ECG 123A	HEP55
Q7	2SB54		GE-2	TR-14	PTC109	SK3004	ECG 102A	HEP633
Q8	2SC372(0)		GE-10	TR-24	PTC121	SK3018	ECG 123A	HEP728
Q9	2SC735(0)		GE-10	TR-21	PTC123	SK3020	ECG 128A	HEP53
Q10	2SC1014		GE-28	IRTR-55		SK3054	ECG 186	HEPS3020
Q11	2SC1014		GE-28			SK3054	ECG 186	
Q12	2SC735		GE-10	IRTR-62	PTC123	SK3046	ECG 123A	HEP53
Q13	2SC775		GE-17	IRTR-64		SK3047	ECG 128	HEPS3001
Q14	2SC778			IRTR-65		SK3048	ECG 128	HEPS3002
X1	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X2	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X3	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X4	MDP173		GE-300	D200	PTC214	SK3100	ECG 177	
X5	1N60		1N60	1N60	PTC206	SK3088	ECG 109	
X6	MDP173		GE-300	D200	PTC214	SK3100	ECG 177	
X7	MV3		GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 116 or ECG 117	
X8	HZ7			Z1106			ECG 5071	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA							
		MFR. PART No.	AEROVOX PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	470 16V		PRS1220	RME-L-E-500	EA15-500	WBR500-16	QT1-30A	MTV500DN15	TL-1166
C2	100 16V		MCD-170	RME-E-B-100	EP6-100	WBR100-16	MT1-21	MTV100CB6	TE-1102
C3	10 16V		MCD-60	ME-1-E-006	EP15-5	WBR10-25	MT1-5	MTV6CB50	TE-1153
C4	1 50V		MCD-10	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	TE-1300
C5	3.3 25V		MCD-40	RME-A-H-003	EP30-5	WBR5-50	MT1-3	MTV3CB50	TE-1302
C6	3.3 25V		MCD-40	RME-A-H-003	EP30-5	WBR5-50	MT1-3	MTV3CB50	TE-1302
C7	1 50V		MCD-10	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	TE-1300
C8	1 50V		MCD-10	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	TE-1300
C9	3.3 25V		MCD-40	RME-A-H-003	EP30-5	WBR5-50	MT1-3	MTV3CB50	TE-1302
C10	10 16V		MCD-60	ME-1-E-006	EP15-5	WBR10-25	MT1-5	MTV6CB50	TE-1153
C11	10 16V		MCD-60	ME-1-E-006	EP15-5	WBR10-25	MT1-5	MTV6CB50	TE-1153
C12	1 50V		MCD-10	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	TE-1300
C13	1 50V		MCD-10	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	TE-1300
C14	100 16V		MCD-170	RME-E-B-100	EP6-100	WBR100-16	MT1-21	MTV100CB6	TE-1102
C15	100 16V		MCD-170	RME-E-B-100	EP6-100	WBR100-16	MT1-21	MTV100CB6	TE-1102
C16	100 16V		MCD-170	RME-E-B-100	EP6-100	WBR100-16	MT1-21	MTV100CB6	TE-1102
C17	1 50V		MCD-10	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	TE-1300
C18	10 16V		MCD-60	ME-1-E-006	EP15-5	WBR10-25	MT1-5	MTV6CB50	TE-1153
C19	100 6.3V		MCD-170	RME-E-B-100	EP6-100	WBR100-16	MT1-21	MTV100CB6	TE-1102

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENC0 PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C31	5					NP05		10TCC-V50
C32	39		ADM-15-390	DM5-EC390J	CPR-39J		SX439	MS-439
C33	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C34	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C35	.5pt							
C36	130		ADM-15-131	DM5-FY131J	CPR-130J		SX313	MS-313
C37	180		ADM-15-181	DM5-FY181J	CPR-180J		SX318	MS-318
C38	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C39	30		ADM-15-300	DM5-EC300J	CPR-30J		SX430	MS-43
C40	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C41	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C42	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C43	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C44	.04				DD-403		GP140	
C45	.04				DD-403		GP140	
C46	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C47	130		ADM-15-131	DM5-FY131J	CPR-130J		SX313	MS-313
C48	500			DM-16-471	CPR-470J	CD15F471J500	SX347	MS-347
C49	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C50	.04				DD-403		GP140	
C51	.04				DD-403		GP140	
C52	.04				DD-403		GP140	
C53	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C54	.04				DD-403		GP140	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C55	.1		TTP-1		CK-104		TA010	TG-P10
C56	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C57	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C58	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C59	.04				DD-403		GP140	
C60	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C61	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C62	.02		TTP-02	CCD-203	CK-203	MGP02	TA120	TG-S20
C63	.04				DD-403		GP140	
C64	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C65	.1		TTP-1		CK-104		TA010	TG-P10
C66	.1		TTP-1		CK-104		TA010	TG-P10
C67	.04				DD-403		GP140	
C68	.04				DD-403		GP140	
C69	.04				DD-403		GP140	
C70	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C71	100		ADM-15-101	DM5-FY101J	CPR-100J		SX310	MS-31
C72	22		ADM-15-220	DM5-CC220J	CPR-22J		SX422	MS-422
C73	10		ADM-15-100	DM5-CC100J			SX410	MS-41
C74	330		ADM-15-331	DM5-FY331J	CPR-330J		SX333	MS-333
C75	470		ADM-15-471	DM15-471J	CPR-470J		SX347	MS-347
C76	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C77	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C78	.04				DD-403		GP140	
C79	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C80	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C81	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C82	.04				DD-403		GP140	
C83	.04				DD-403		GP140	
C84	.01		TTP-01	CCD-103	CK-103	MGP01	TA110	TG-S10
C85	.04				DD-403		GP140	

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

ITEM No.	FUNCTION	RESIST- ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS—IRC PART No.	MALLORY PART No.
R1	Volume/Switch	5000					
R2	Squelch	10K					
R3	AGC	10K					
R4	Squelch Range	20K		TSV-10K(1) or T-10K (1)		X201R103B (1)	MTC14L1 (1)
				T-20K (1) or TSV-25K (1)		X201R253B (1)	MTC24L1 (1)
R5	Squelch Range	10K	(2)				
	"S" Meter Adjust	5000		TSV-5K (1) or T-5000 (1)		X201R502B (1)	MTC53L1 (1)
R6	"RF" Meter Adjust	10K		TSV-10K (1) or T-10K (1)		X201R103B (1)	MTC14L1 (1)
	"RF" Meter Adjust	5000	(2)				

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

(2) Used in some versions.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Rec. Antenna Matching	113CN-2639AQ			
L2	RF	113CC-2638AQ			
L3	Receiver Oscillator	113CC-2448BM			
L4	Input IF	LPN-5944BM	16-9033	8810	
L5	Interstage IF	LLC-3657	16-9034	8811	
L6	Output IF	LLC-4990A2	16-9035	8812	
L7	RF Choke	LF4-010K		74F126AP	T807
L8	Xmtr. Oscillator	B-21			
L9	Xmtr. Driver	B-22			
L10	RF Choke (.5uh)	NS-1373	19-2005	4588	T958
L11	Final (4.5 turns)	NCW			
L12	Pi Network (9.5 turns)	NS-1344			
L13	Pi Network (5 turns)	NS-1448			
L14	TVI (4.5 turns)	NCW-04			
L15	RF Choke (.5uh)	NS-1373	19-2005	4588	T958

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.	
L16	610ma	.3	.7mh	84C				

PEARCE-SIMPSON MODEL WILDCAT II

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		MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
T1	1.2	1		58M				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC. #1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	128	8					
		SEC #2					
		1.3 DC Resistance					

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" 8 ohms	30A05Z8		

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	2A			AGC2	HDJ	31200Z	150145	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Meter RF/S		
M2	Crystal Filter		
M3	Crystal (Rec)	HC-25U 27.065MC	(Ch. 9)
M4	Crystal (Xmit)	HC-25U 26.610MC	(Ch. 9)
M5	Microphone	22-115-25	
S1	Switch, Selector		

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)
	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.)