

SAMS PHOTOFACT[®]



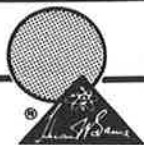
CB RADIO SERIES

CB-52
52
MARCH 1974



CONTENTS

TRADE NAME AND MODEL	PAGE	TRADE NAME AND MODEL	PAGE	TRADE NAME AND MODEL	PAGE
COURIER		MIDLAND		REALISTIC	
Centurion.....	5	13-700		TRC-35C	
		(Revised).....	77	(21-117)	
LAFAYETTE		PACE		(Rover-1500).....	119
Telsat SSB-25A		CBST-23			
(99-32559W).....	41	(Side Talk 23).....	87		



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 Centurion

ALIGNMENT

Suggested Alignment Tools:

T1 thru T12, T16 thru T21	GC ELECTRONICS #9440
T13 thru T15, L12, L14, L15	#9089, 8868
CT2 thru CT16	#5000, 8290

OSC ALIGNMENT

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
Frequency Counter	1	CT2	Set MODE Switch to AM Connect counter to TP2. Adjust for 11.000MHz.
Frequency Counter	5	CT3	Adjust for 11.050MHz.
Frequency Counter	9	CT4	Adjust for 11.100MHz.
Frequency Counter	13	CT5	Adjust for 11.150MHz.
Frequency Counter	17	CT6	Adjust for 11.200MHz.
Frequency Counter	21	CT7	Adjust for 11.250MHz.
Frequency Counter	1	CT8	Leave MODE Switch on AM Connect counter to TP3. Adjust for 8.1665MHz.
Frequency Counter	2	CT9	Adjust for 8.1765MHz.
Frequency Counter	3	CT10	Adjust for 8.1865MHz.
Frequency Counter	4	CT11	Adjust for 8.2065MHz.
Frequency Counter	1	CT12	Set MODE Switch to LSB. Connect counter to TP3. Adjust for 8.1635MHz.
Frequency Counter	2	CT13	Adjust for 8.1735MHz.
Frequency Counter	3	CT14	Adjust for 8.1835MHz.
Frequency Counter	4	CT15	Adjust for 8.2035MHz.
Frequency Counter	Any	CT18	Connect counter to emitter of TR-21 (SSB-OSC). Adjust for 7.8015MHz.

COURIER MODEL CENTURION

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

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OSC ALIGNMENT (CONTINUED)

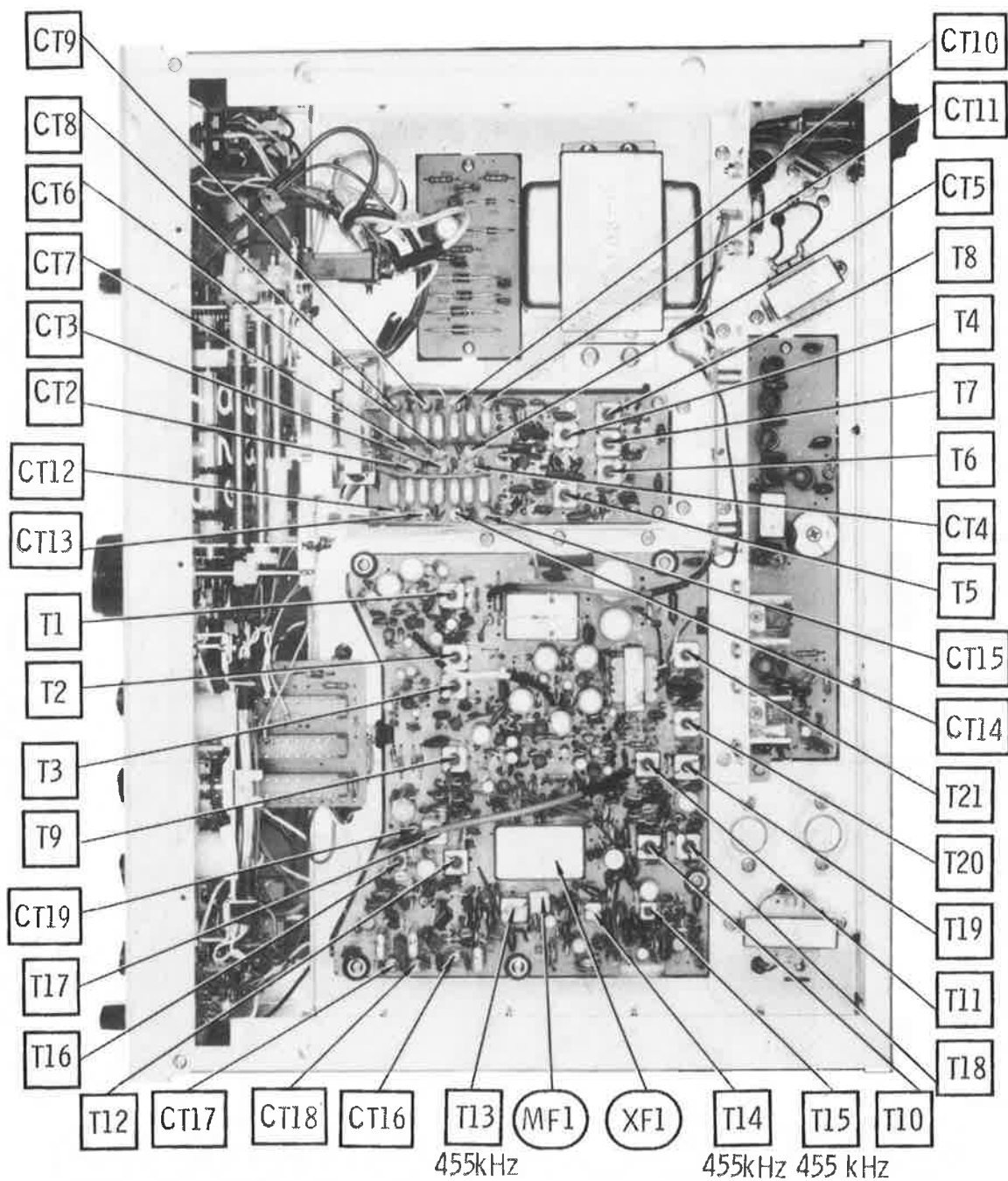
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
Frequency Counter	Any	CT17	Counter to emitter of TR-21, set MODE Switch to USB. Adjust for 7.7985MHz.
Frequency Counter	Any	CT16	Set MODE Switch to AM, Connect counter to TP7 and adjust for 7.3435MHz.

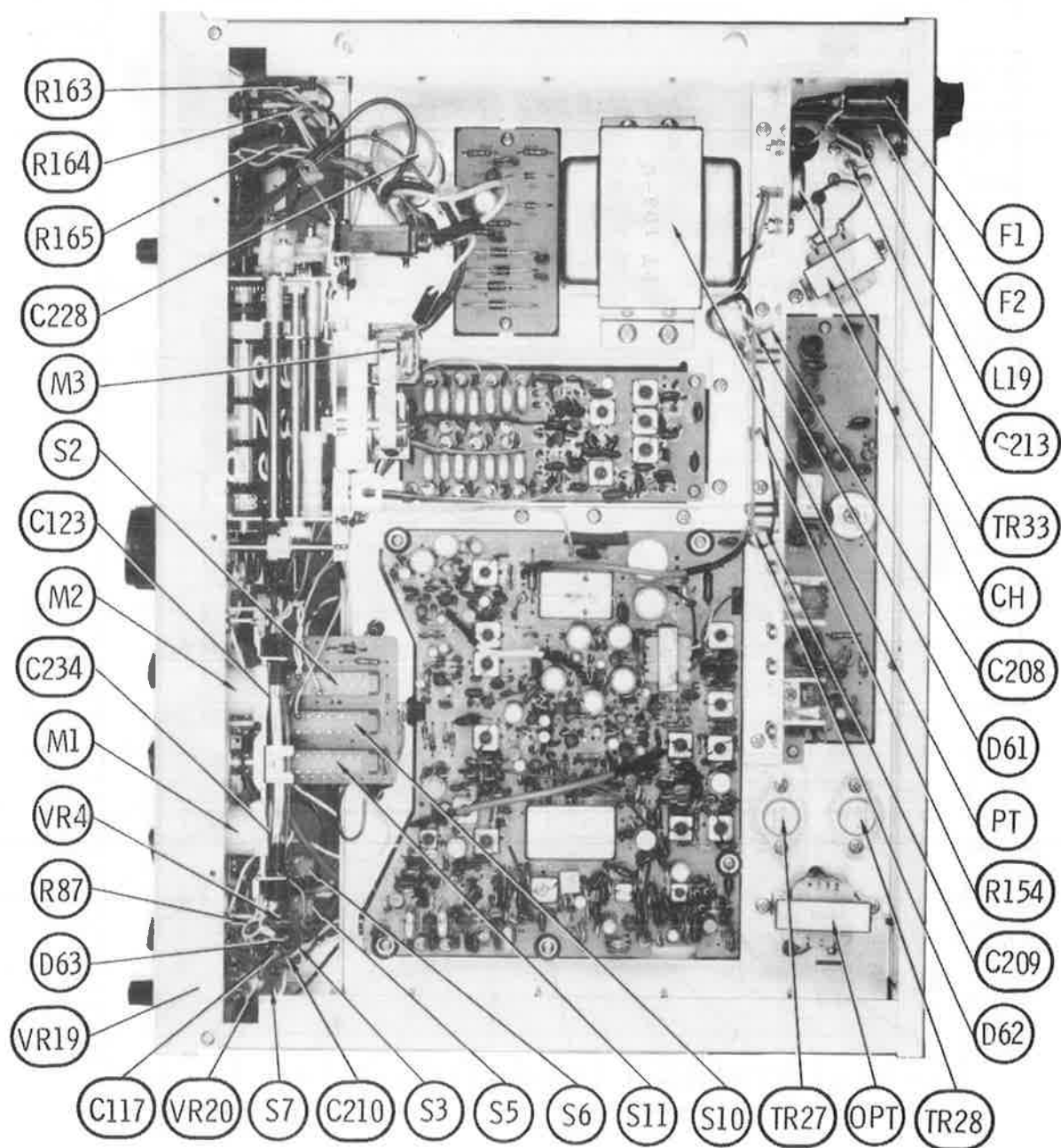
RECEIVER ALIGNMENT

Connect an AC VTVM across speaker voice coil. Set Squelch control fully CCW. Adjust volume control to obtain a suitable reading.			
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
AM High side thru .01mfd to base of TR12 (2nd Rec.Mixer) low side to ground. Set to 455KHz (Mod.).	Any	T15,T14, T13	Adjust for maximum.
High side thru .01mfd to Antenna connector, low side to ground. Set to 27.085MHz (Mod.).	11	T3,T2,	Adjust for maximum.
SSB High side thru .01mfd to TP6 Low side to ground. Set to 7.8MHz (Unmod.) an audio beat will be produced by the SSB OSC. and the 7.8MHz IF.	Any	T16,T11 T10	MODE Switch to LSB. Adjust for maximum.

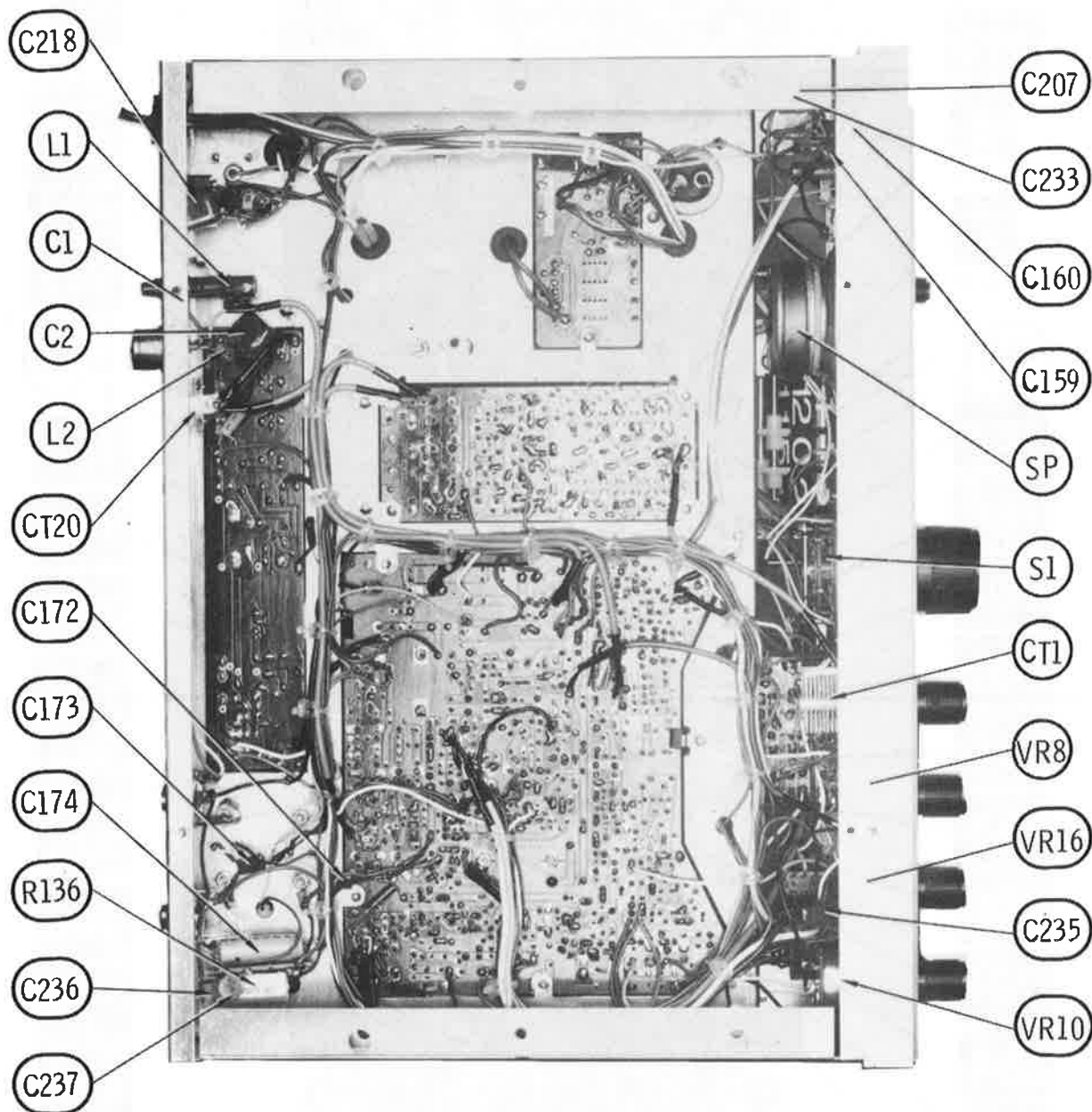
TRANSMITTER ALIGNMENT

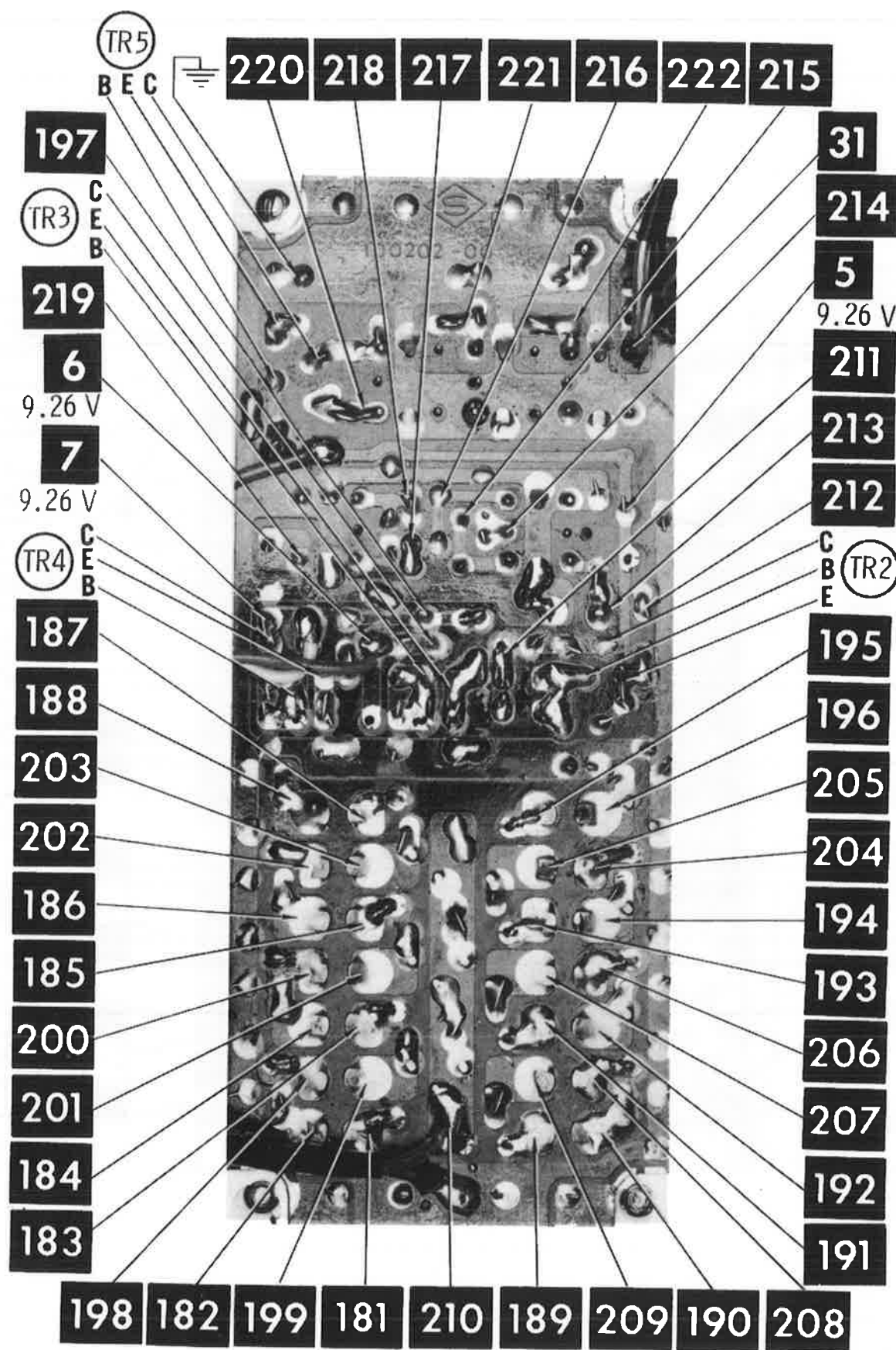
INDICATOR	ADJUST	REMARKS
AM RF Wattmeter to antenna connector	T4,T5, T6,T7, T8,T19, T20,T21 VR17,L12 L14	Key transmitter and adjust for maximum.
0-500 mA DC Meter	L14	Insert meter in meter jumper in collector circuit of TR31. Key transmitter and readjust L14 for 5 watts DC input.
TV Set (Ch. 2)	L1	Key transmitter and adjust for MINIMUM interference.
SSB RF Wattmeter Monitor Scope	VR13	Connect wattmeter and scope to the antenna connector, set MODE switch to USB or LSB. Short microphone input to ground. Key transmitter and adjust for MINIMUM carrier (no audio).
0-50 mA DC Meter	VR18	Insert meter in meter jumper in collector of TR31. Key transmitter and adjust for MINIMUM current (no audio).
RF Wattmeter Monitor Scope	T18,VR12, L15	Remove short from microphone input and connect an audio generator in the input. Set audio level to obtain maximum without distortion. Adjust for maximum.
RF Wattmeter 0-1 Amp DC Meter	L15	Insert meter in meter jumper in collector of TR31. Key transmitter and adjust to reduce collector current until power output just begins to fall off on RF Wattmeter.
		NOTE: After SSB transmitter alignment is completed it may be necessary to readjust L12 for 5 watts AM input.



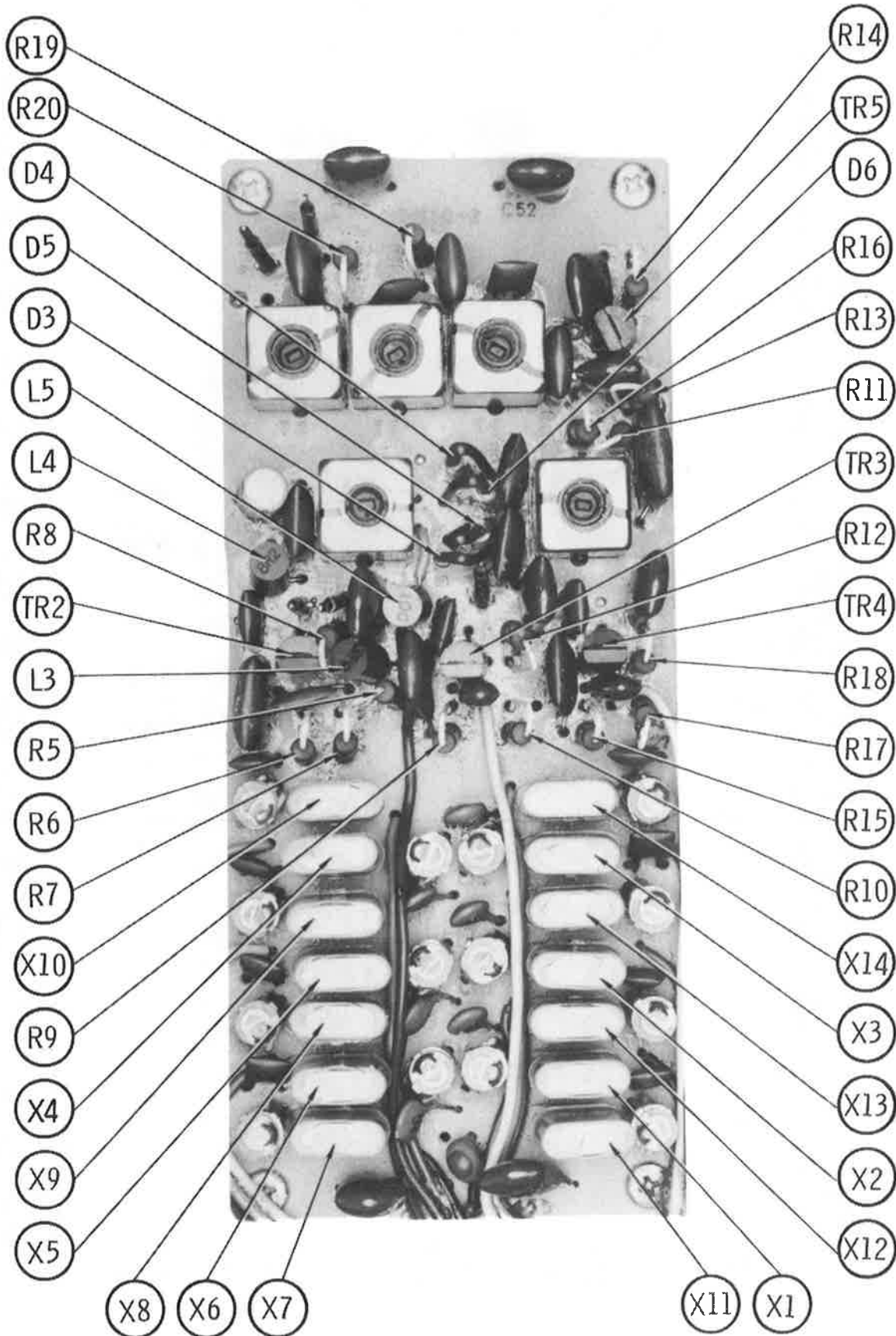


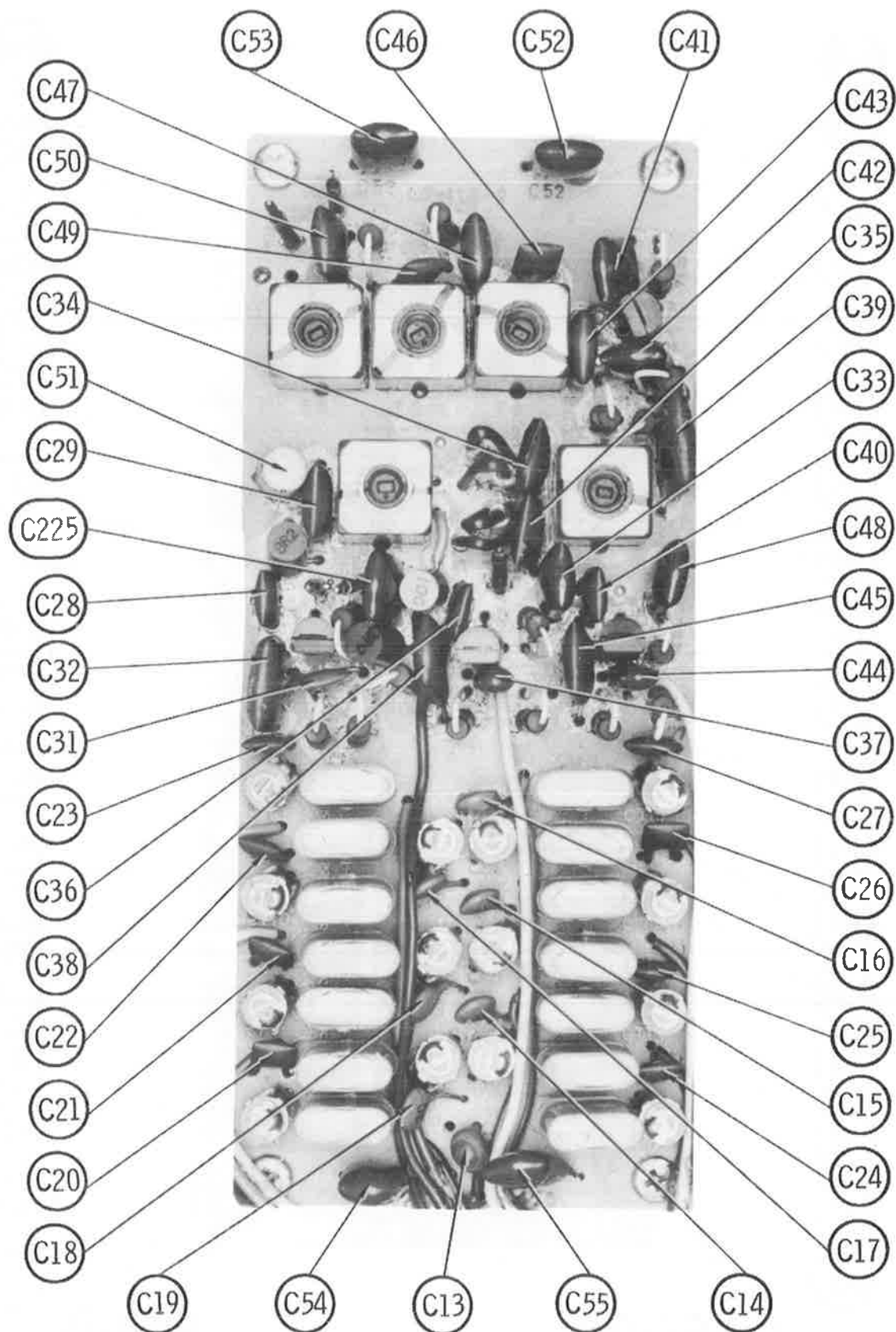
COURIER MODEL CENTURION

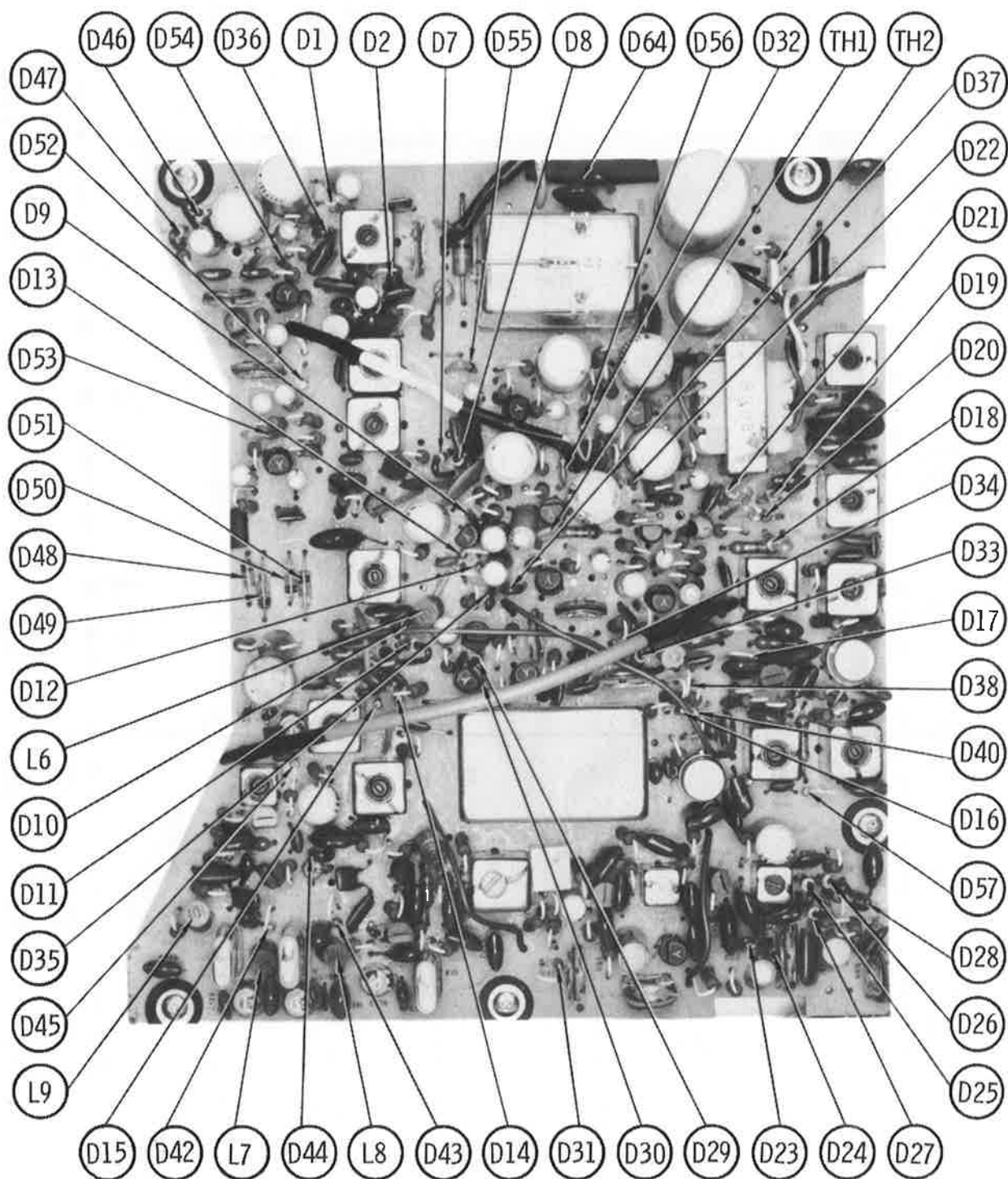


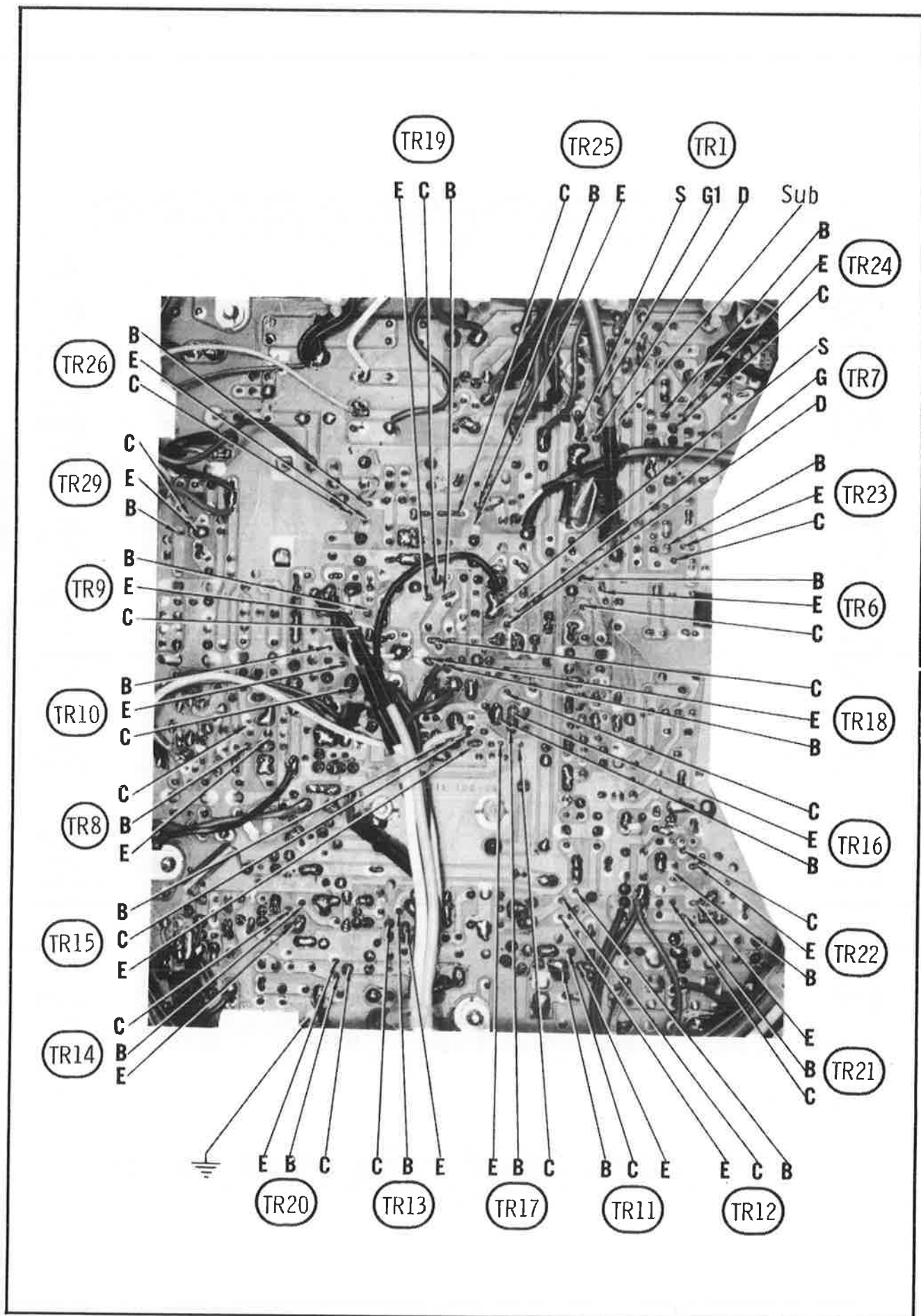


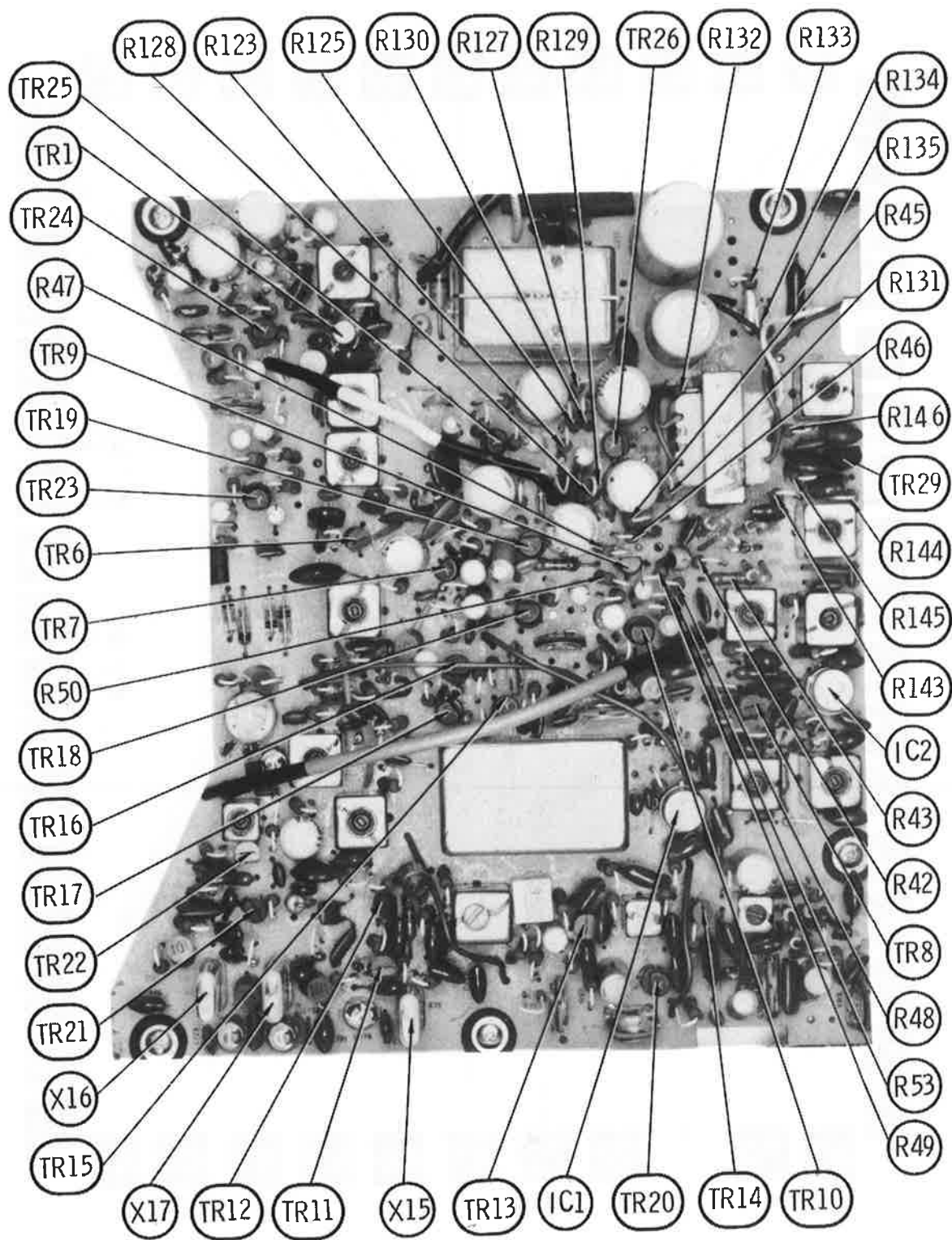
A Howard W. Sams CIRCUITRACE® Photo

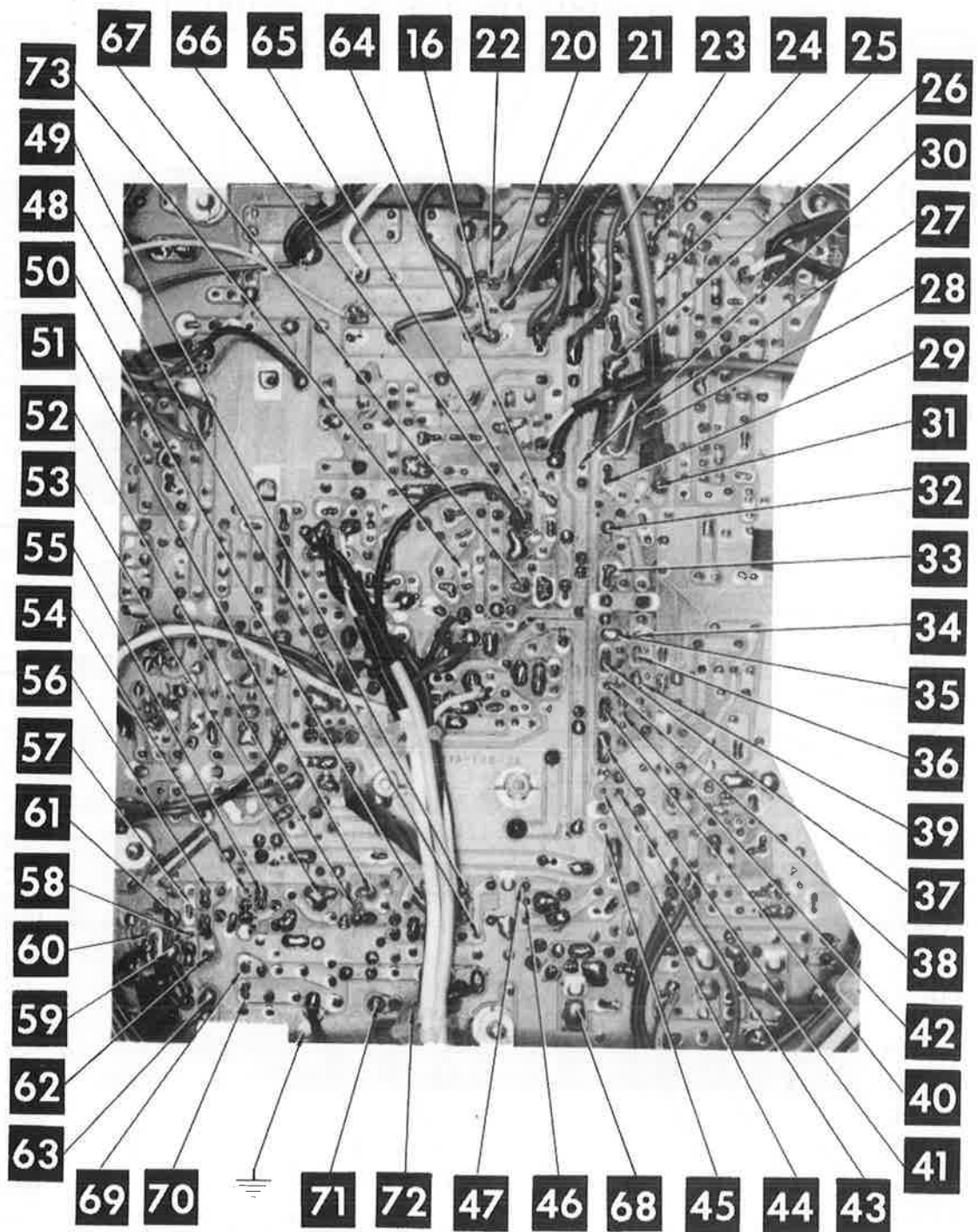




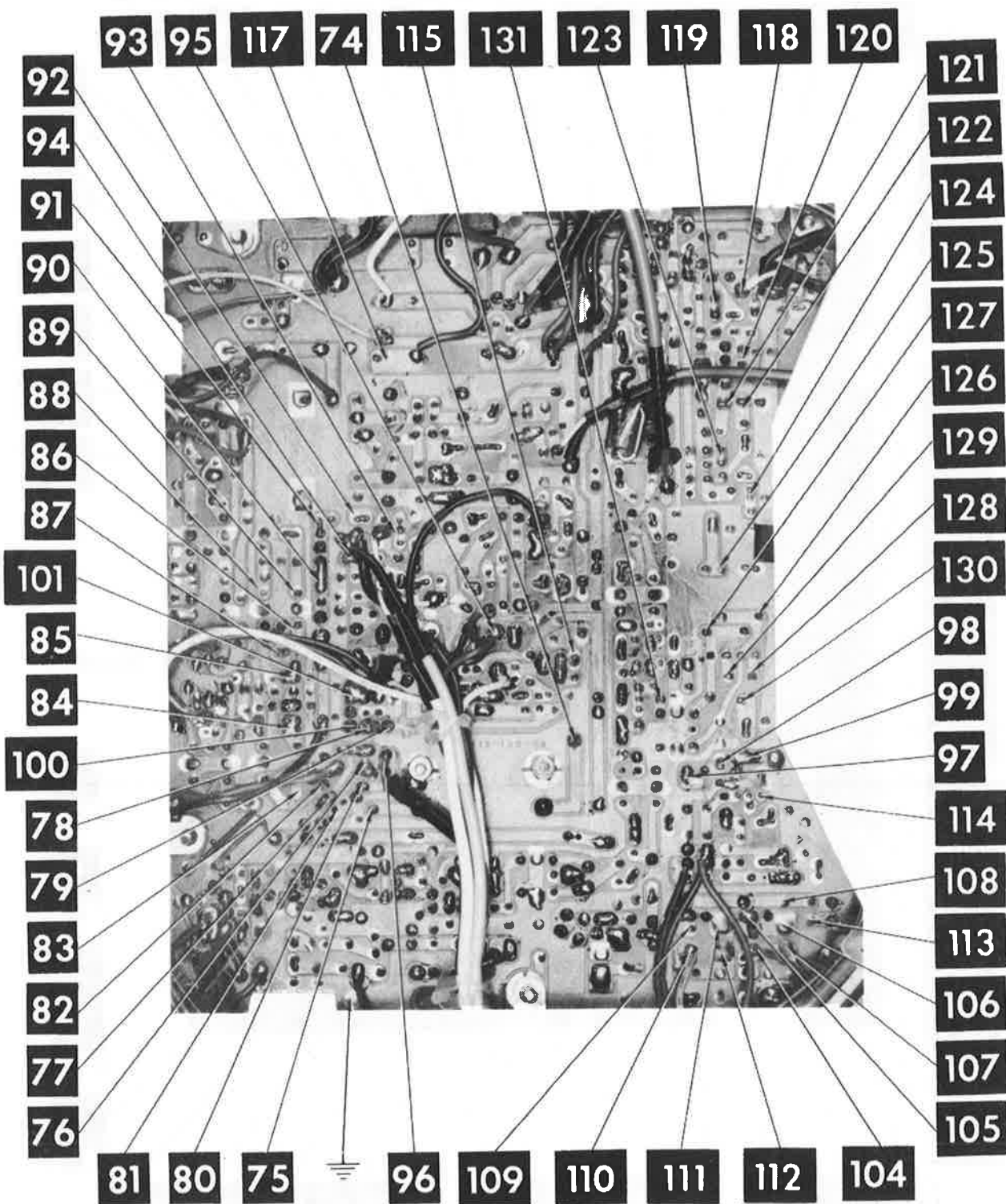


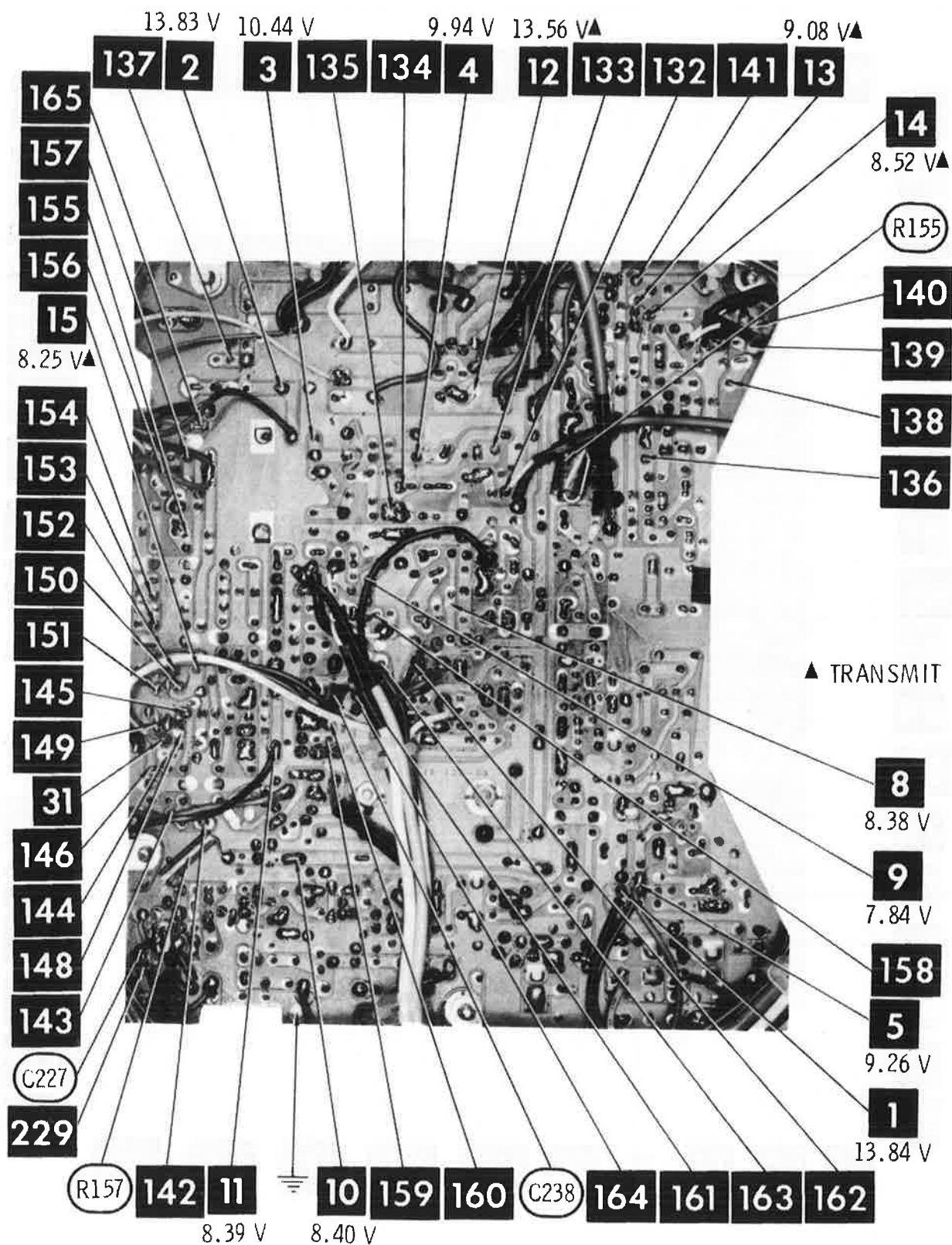


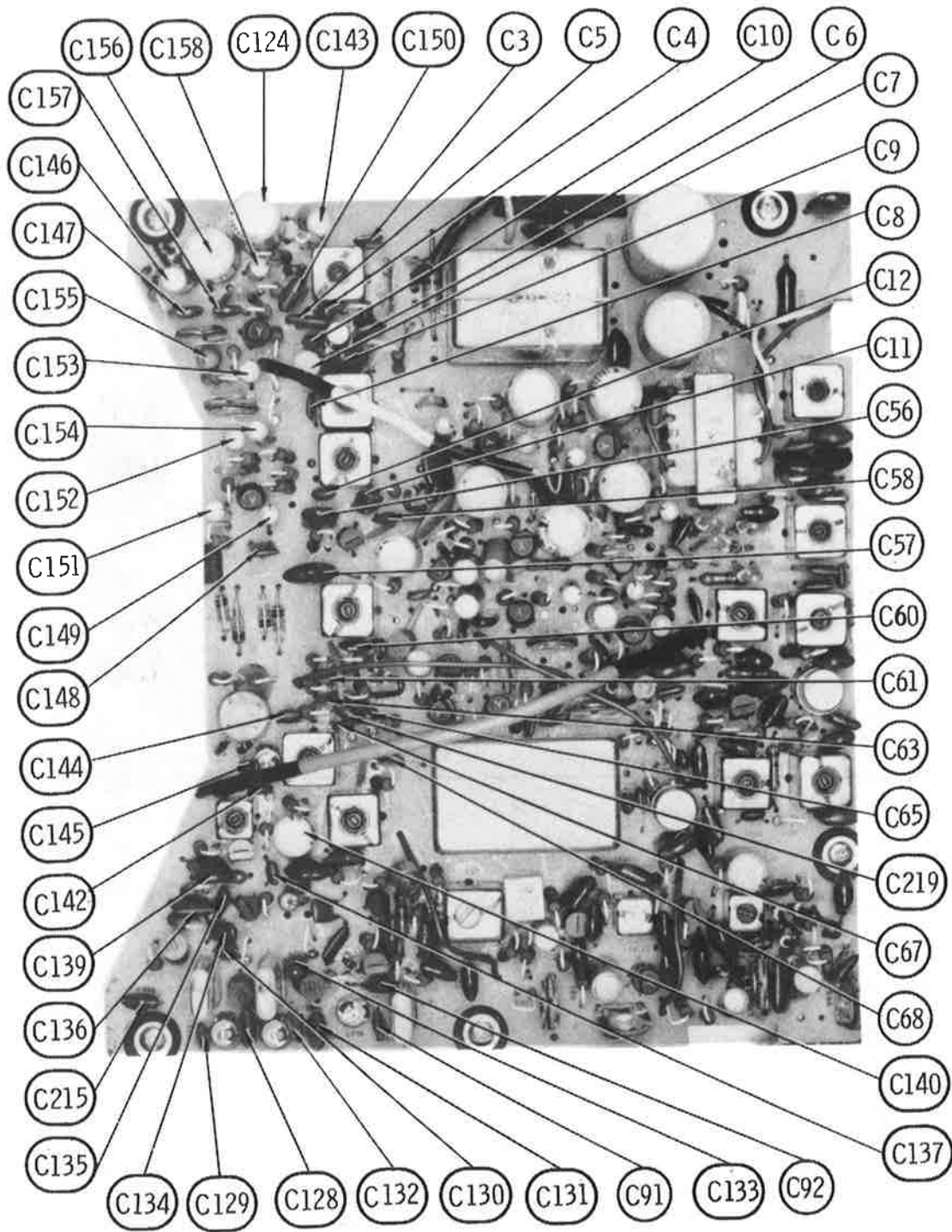


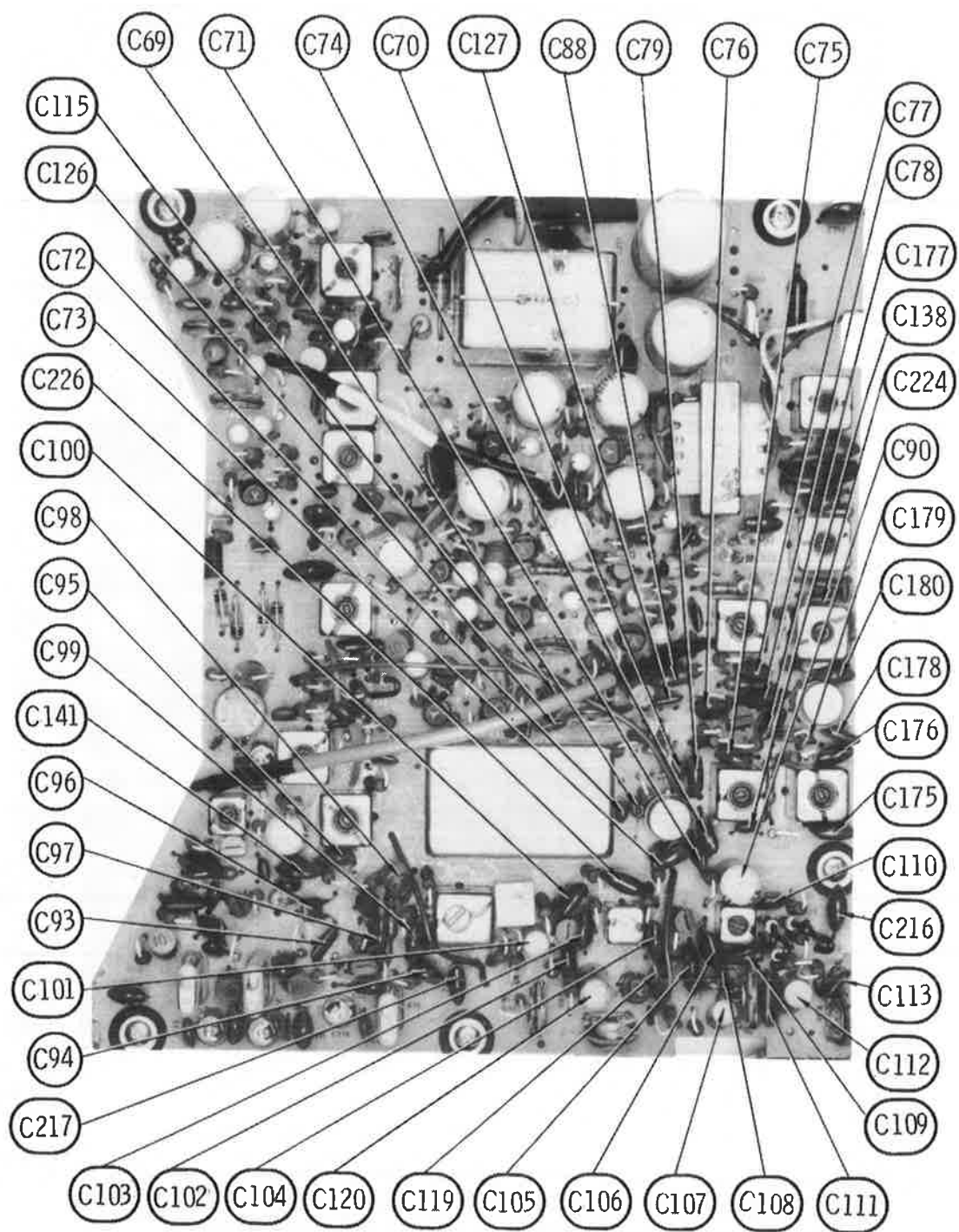


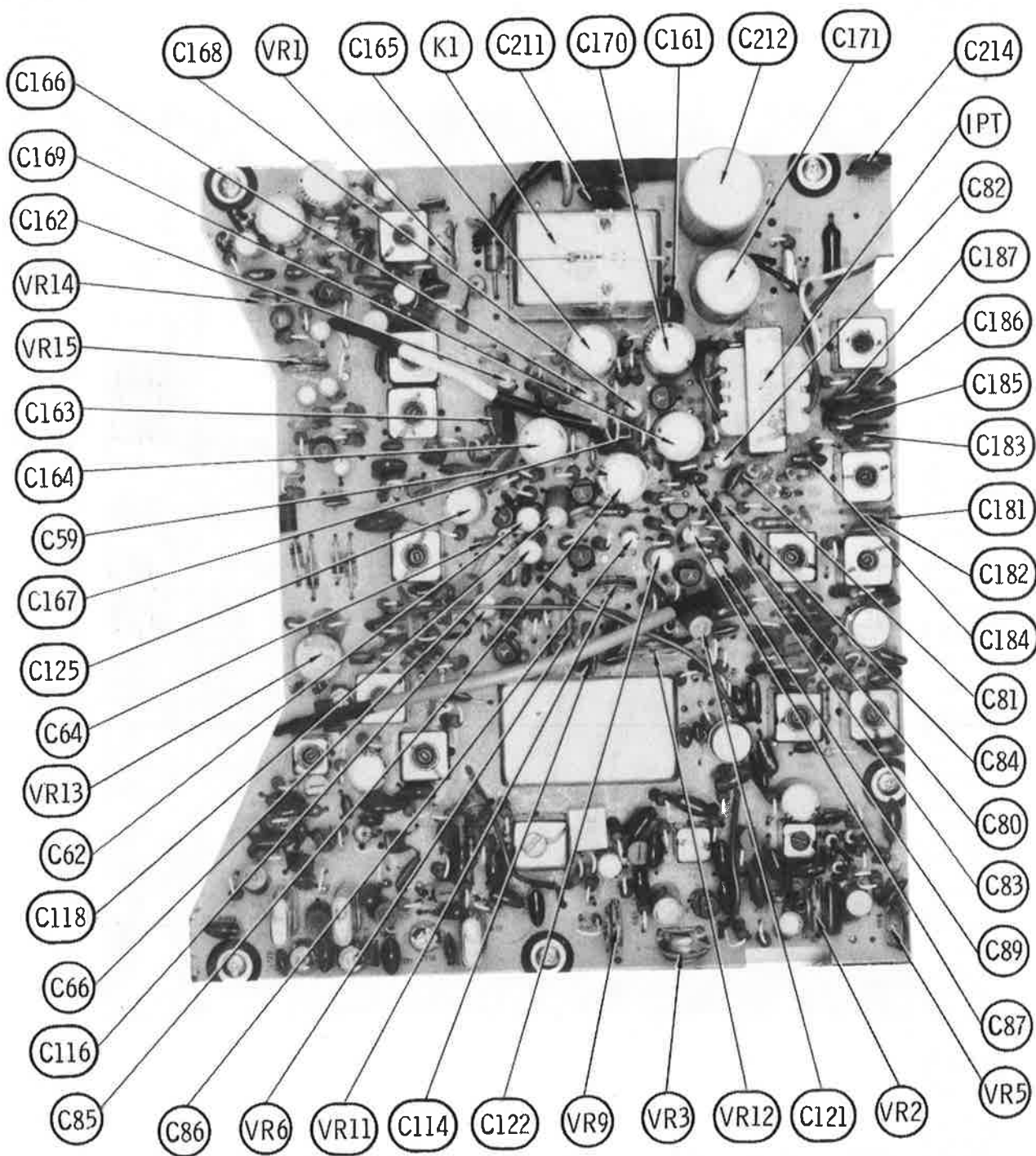
COURIER MODEL CENTURION

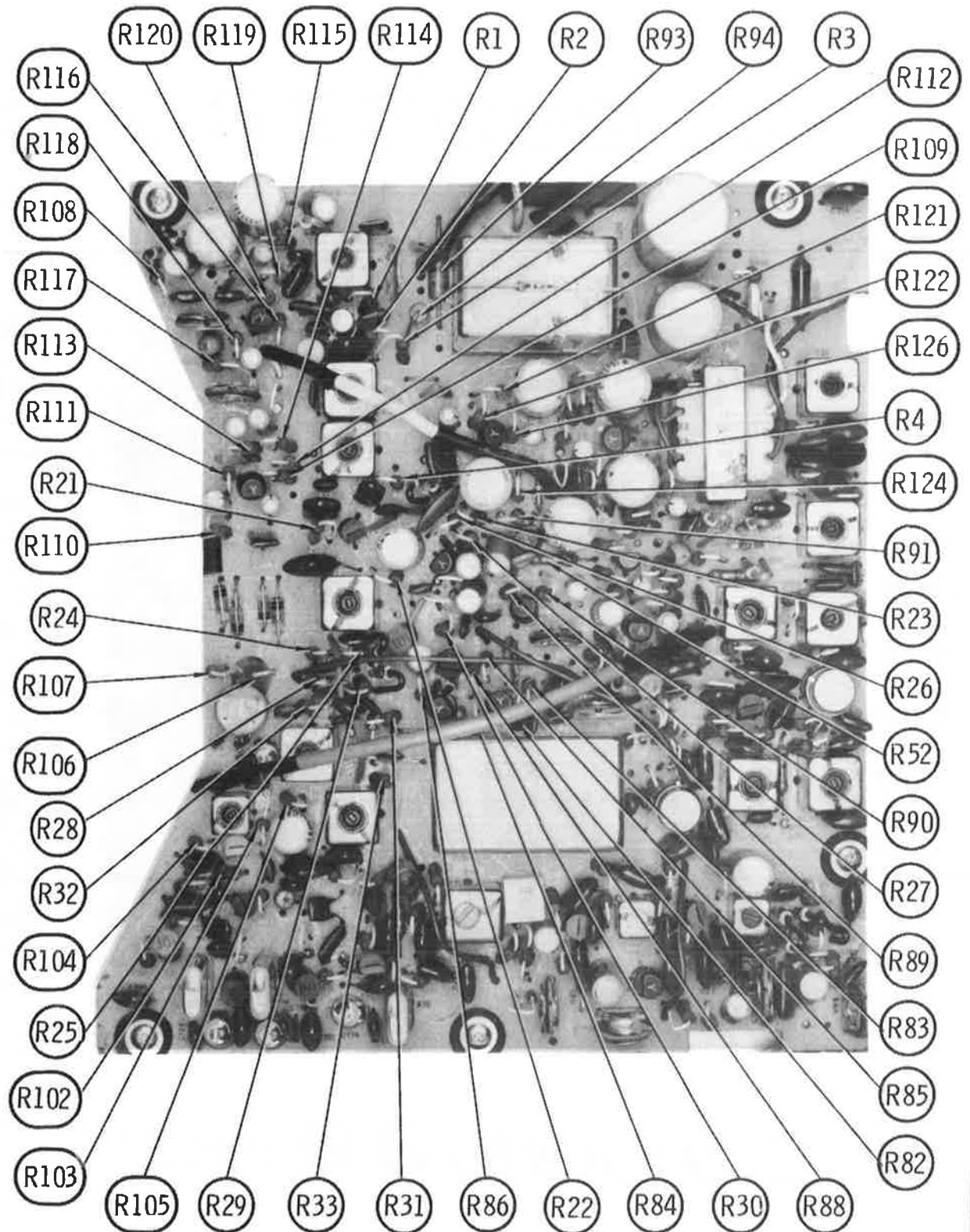


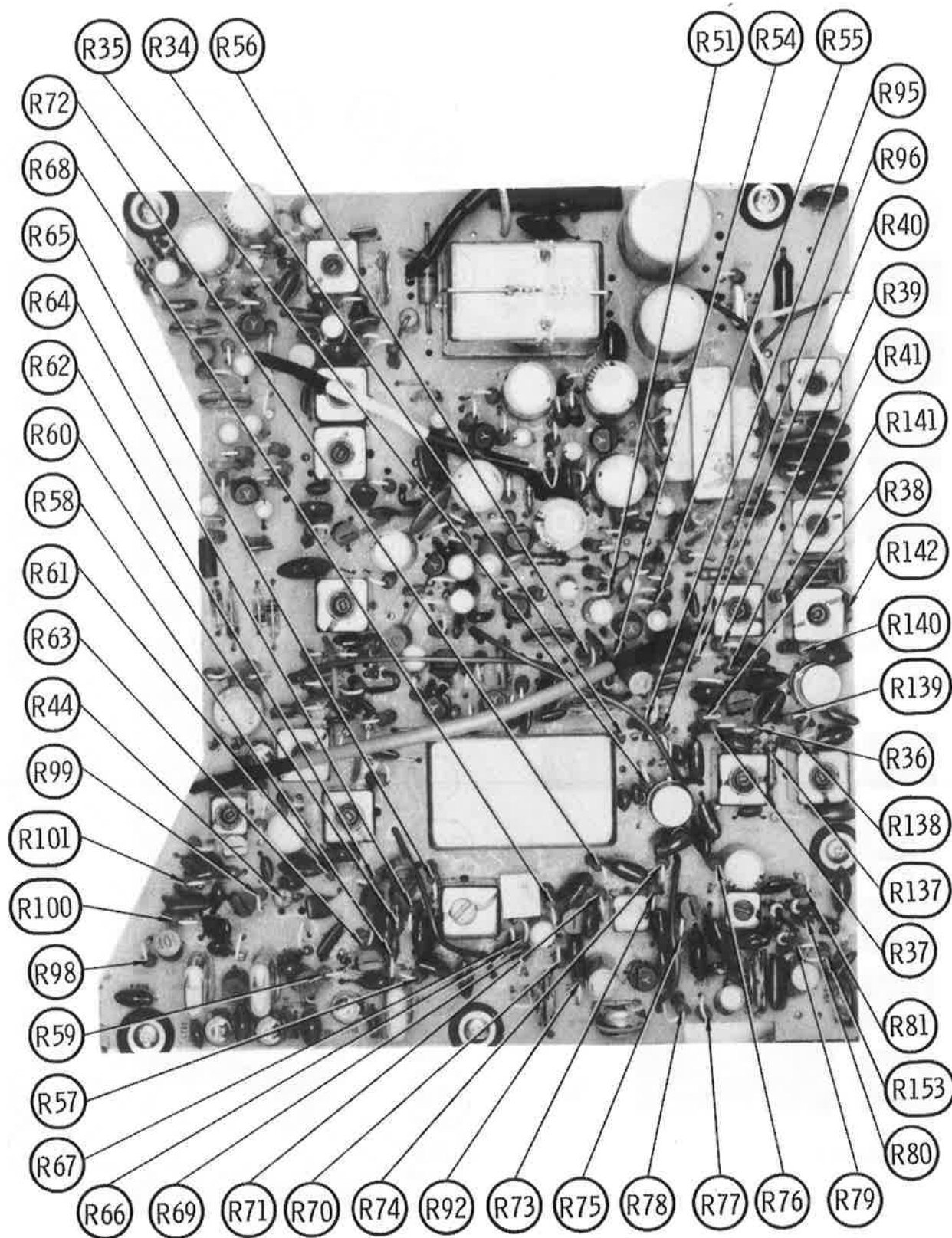


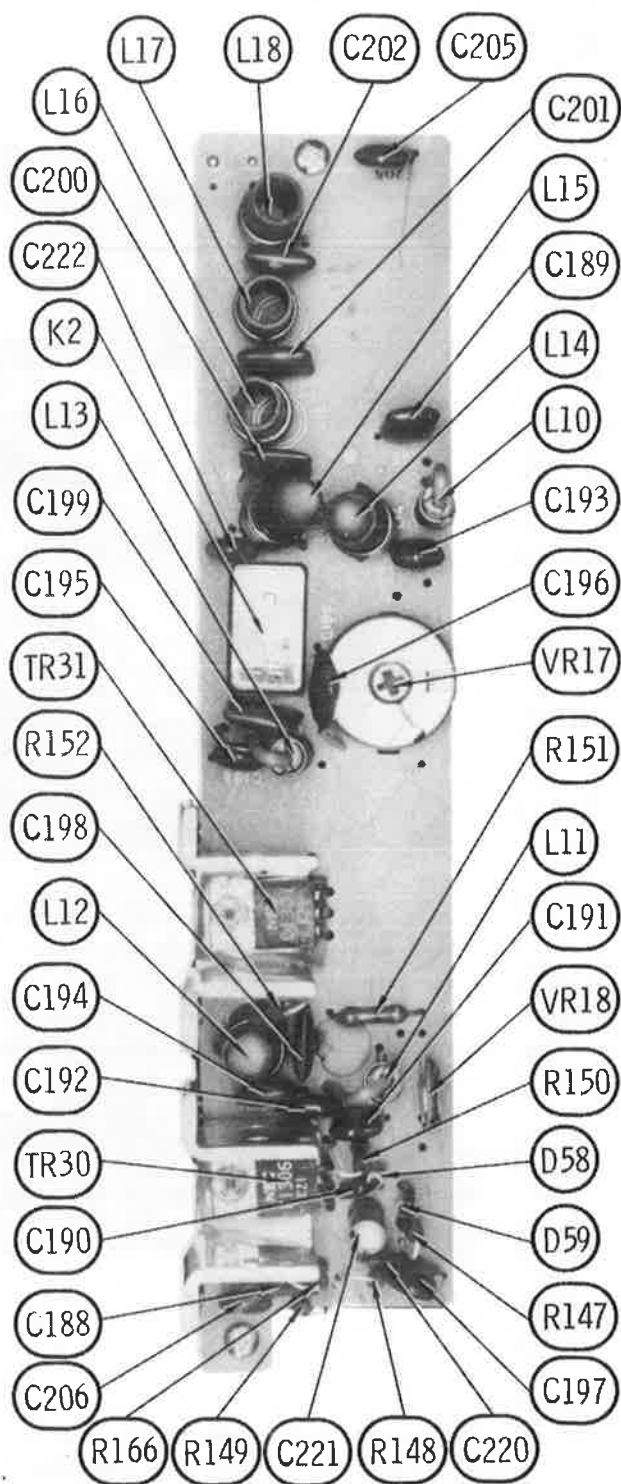
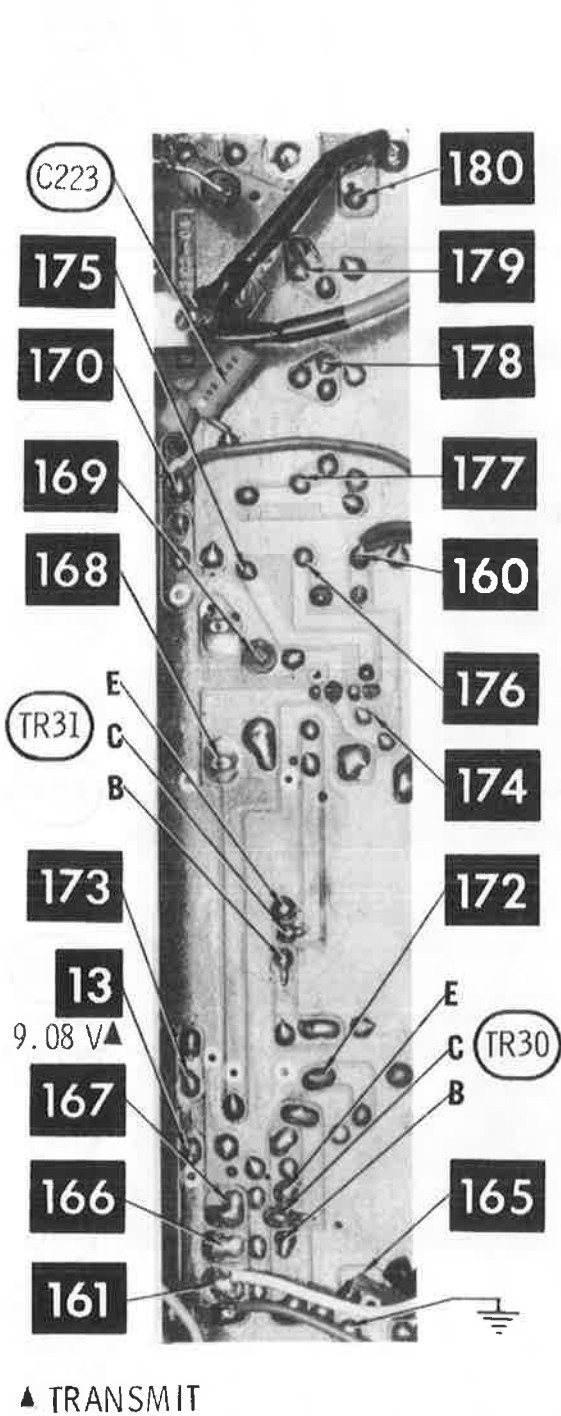


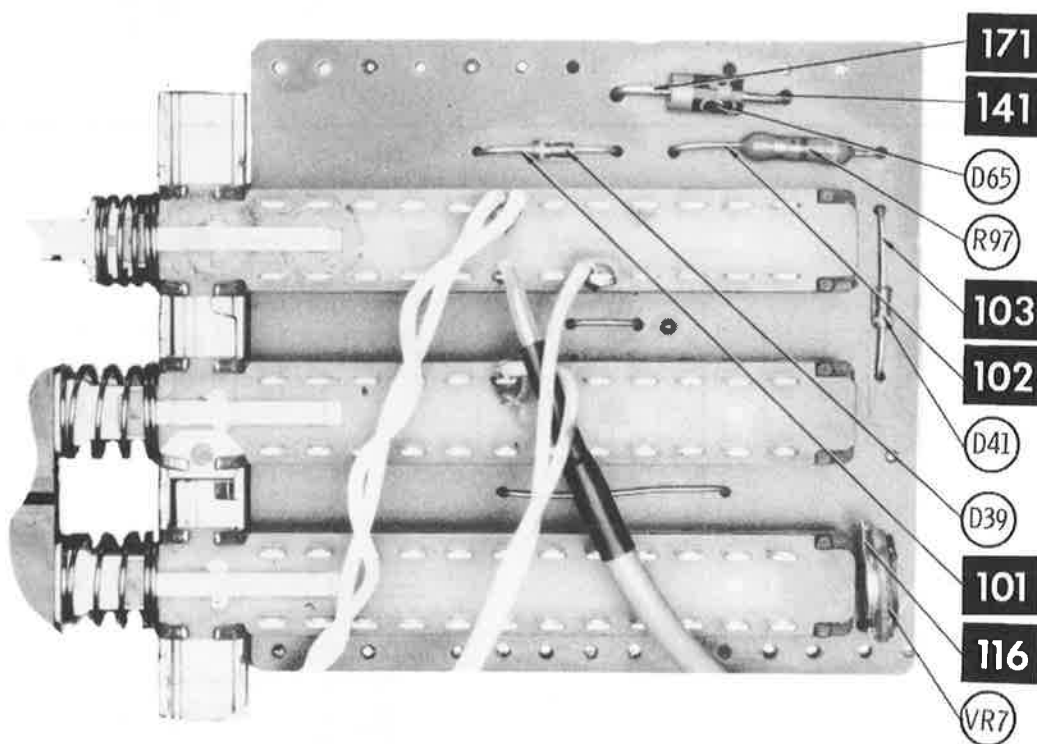
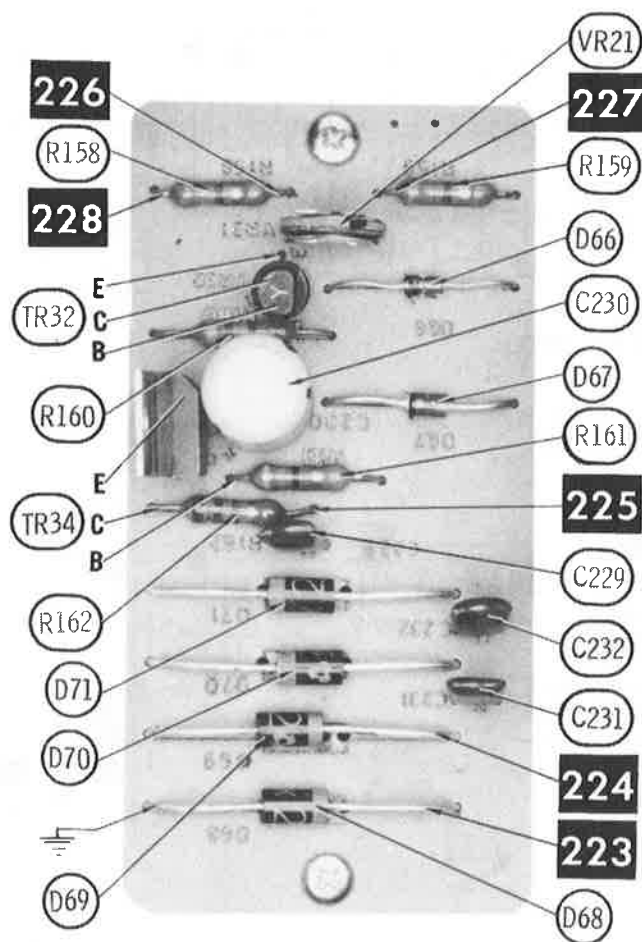


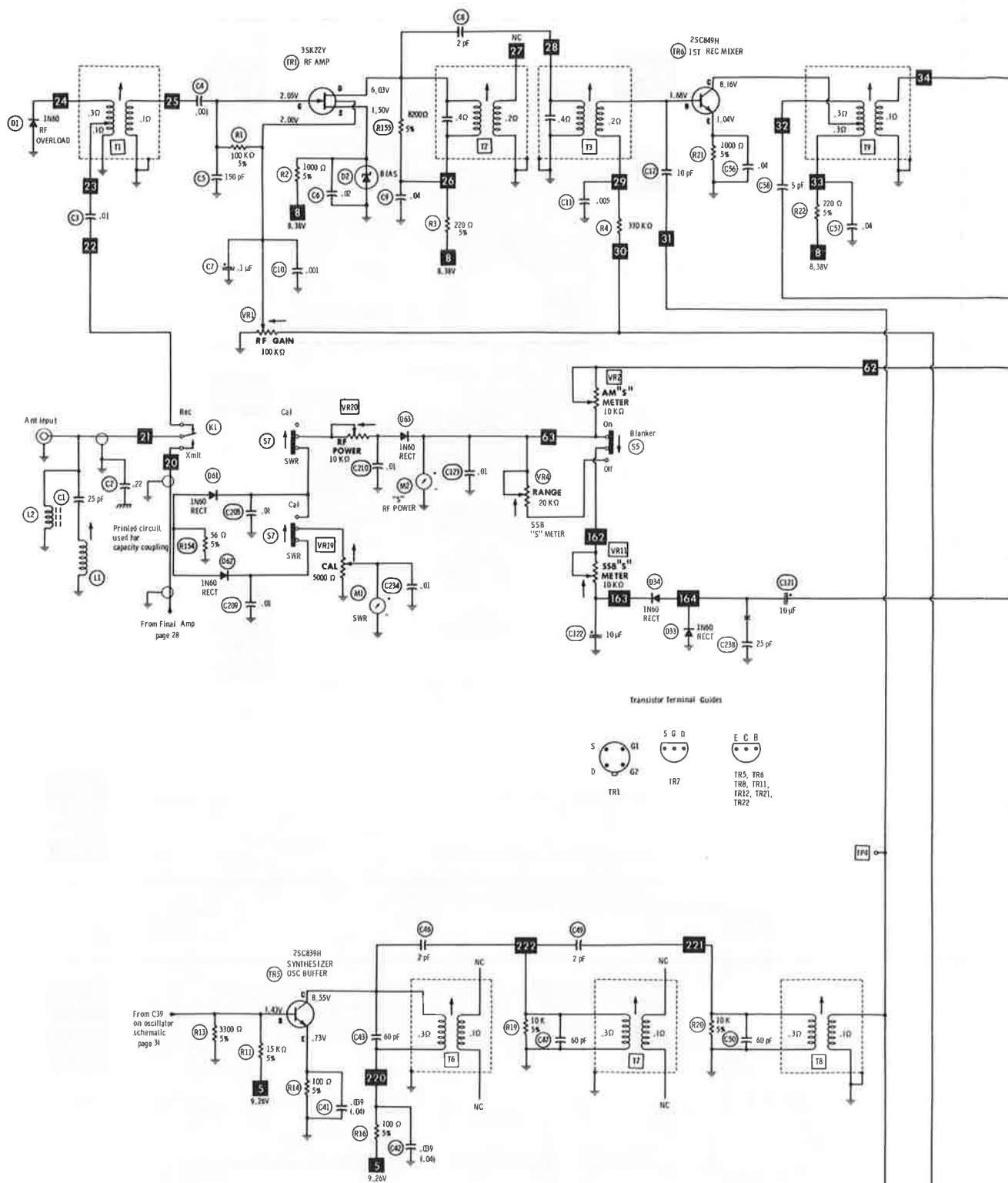






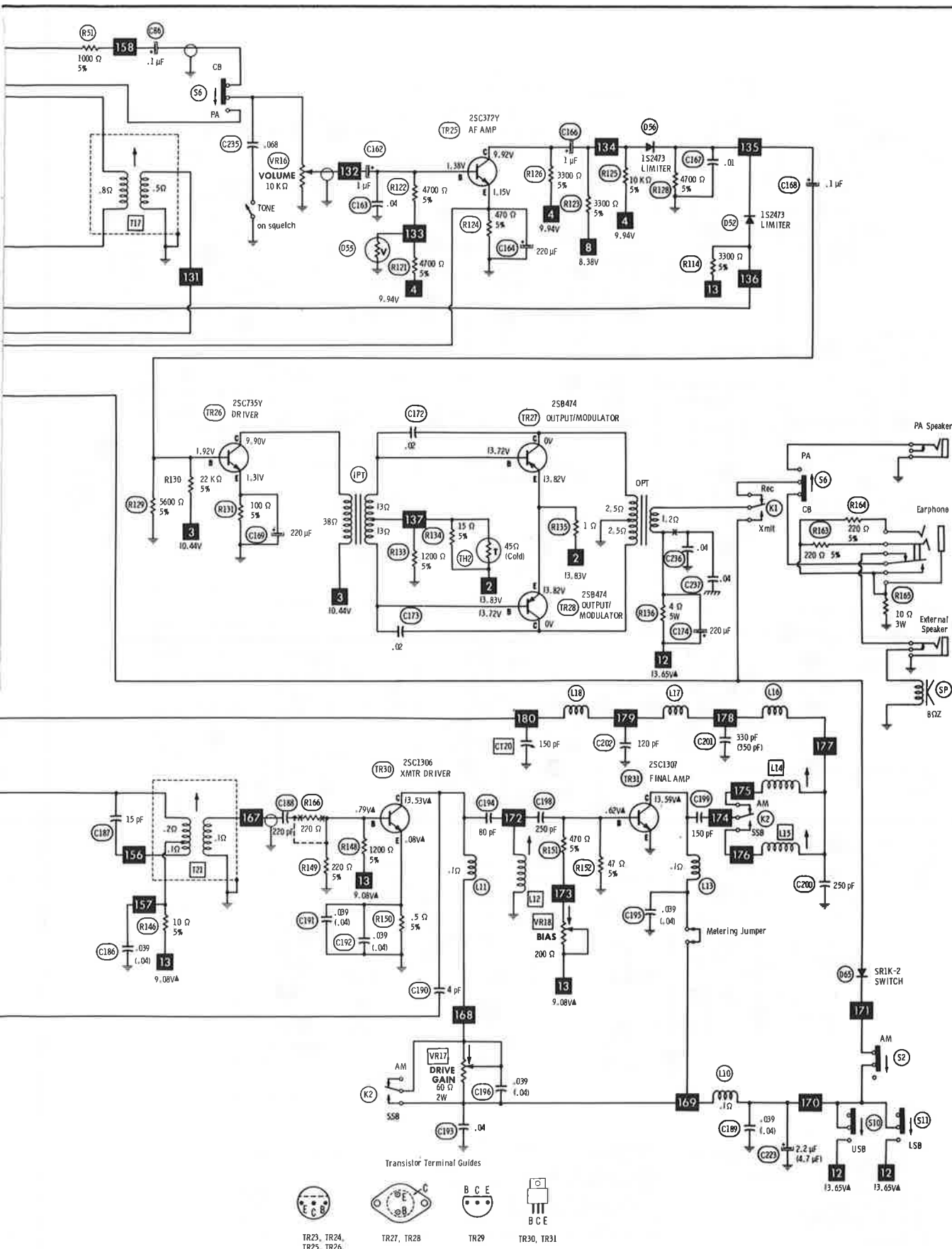






A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CIRCUITRACE**
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Denotes chassis.
Denotes ground. (Voltage reference unless otherwise indicated)
Indicates connection used in some versions.
Indicates connection not used in some versions.
Omitted in some versions.
See parts list.
Value varies; replace with original value.
Measured in transmit position.
Measured with unit squelched.
No Connection.
Measurements taken with switching in position shown unless otherwise indicated.
Values shown in () are used in some applications.
Resistors are 1/2W or less, 10K or 20K, 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.





33



PARTS LIST AND DESCRIPTION

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

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	1N60P/1042-13	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D2	/1074-124 (1.5 Zener)							
D3	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D4	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D5	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D6	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D7	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D8	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D9	1N4448/1042-16	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D10	IS1007/1042-14	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D11	IS1007/1042-14	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D12	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D13	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D14	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D15	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D16	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D17	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D18	1N60P/1042-13	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D19	1N60P/1042-13	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D20	1N60P/1042-13	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D21	1N60P/1042-13	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D23	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D24	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D25	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D26	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D27	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D28	1N4448/1042-16	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D29	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D30	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D31	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D32	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D33	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D34	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D35	/1074-122 (8.4 V Zener)	GE-X11	Z1208	ZB8.2	HEPZ0411	SK3059	RT239	ECG 138
D36	/1074-120 (9.0 V Zener)	GEZD-9.1	Z1208	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D37	/1074-120 (9.0 V Zener)	GEZD-9.1	Z1208	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D38	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D39	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D40	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D41	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D42	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D43	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D44	/1074-120 (9.0 V Zener)	GEZD-9.1	Z1208	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D45	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D46	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D47	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D48	IS1007/1042-14	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D49	IS1007/1042-14	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D50	IS1007/1042-14	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D51	IS1007/1042-14	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D52	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D56	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D57	IS2473/1074-118	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D58	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D59	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D61	1N60P/1042-13	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D62	1N60P/1042-13	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D63	1N60/294-42-9	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D64	SRI-K2/1074-119	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D65	SRI-K2/1074-119	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D66	/1074-123 (6.3 V Zener)	GEZD-6.2	Z-1204	PTC503	HEPZ0408	SK3058	RT237	ECG 137
D67	/1074-121 (16.9 V Zener)	GEZD-18	Z-1216	PTC510	HEPZ0420			ECG 5076
D68	SRI-K2/1074-119	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D69	SRI-K2/1074-119	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D70	SRI-K2/1074-119	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D71	SRI-K2/1074-119	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
IC1	TA-7045M/1042-11							ECG 724
IC2	TA-7045M/1042-11							ECG 724
TR1	3SK22Y/1042-01				HEPF2005	SK3116		ECG 220
TR2	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR3	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR4	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR5	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR6	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR7	2SK304/1042-02	GE-FET-2	FF-100	PTC152	HEPF0021	SK3116	RT175	ECG 132
TR8	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR9	2SC945QL/1074-115	GE-20	TR-21	PTC139	HEP724	SK3038	RT102	ECG 123A

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.
TR10	2SC1372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123
	2SC945R(1)	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR11	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR12	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR13	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR14	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR15	2SC372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC945R(1)	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR16	2SA495Y/1042-06	GE-21	TR-30	PTC103	HEP52	SK3114	RT115	ECG 159
TR17	2SA495Y/1042-05	GE-21	TR-30	PTC103	HEP52	SK3114	RT115	ECG 159
TR18	2SC372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC945R(1)	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR19	2SC372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC945R(1)	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR20	2SC372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC945R(1)	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR21	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR22	2SC839H/1042-04	GE-20	TR-24	PTC123	HEP54	SK3122	RT100	ECG 108
TR23	2SC372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC945R(1)	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR24	2SC372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC945R(1)	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR25	2SC372Y/1042-03	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC945R/1042-03	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR26	2SC735Y/1042-05	GE-63	TR-21	PTC123	HEP53	SK3018	RT102	ECG 123A
TR27	2SB474V10/1042-10	GE-31MP(6)	IRTR-94MP(6)	PTC120(7)	HEP643(7)	SK3068(7)		ECG 226MP(6)
TR28	2SB474V10/1042-10							
TR29	2SC710C/1042-07	GE-17	TR-24	PTC121	HEP56	SK3018	RT108	ECG 107
TR30	2SC1306/1042-08	GE-28	IRTR-55	PTC110	HEPS3023	SK3054	RT154	ECG 186
TR31	2SC1307/1042-09	GE-66		PTC110				
TR32	2SC372Y/1042-03	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC945R/1042-03	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
TR33	2SD180M/1074-117	GE-35	TR-26	PTC116	HEP247	SK3027	RT131	ECG 130
TR34	2SC1096L/1074-116	GE-28	IRTR-55	PTC110	HEP245	SK3041	RT133	ECG 186

(1) Used in some versions.

(6) Matched pair.

(7) Two required - select matched pair.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C7	.1 25V	10-42-122				TDC104M050EL	SD35-R109
C51	10 16V	1042-129	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C62	10 16V	1042-129	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C66	1 50V		RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
	(1 25V)	(1042-132)	RME-A-G-001	EP30-2	PC1-50	MTV1CB50	EV-1315
C82	1 10V	1042-120	ME-1-D-001	EP15-2	PC1-50	MTV1CB50	EV-1315
C84	33 6.3V	1042-117				TDC336M010FL	SD6-339
C85	330 16V		ME-B-E-250	EA15-250	WBR300-35	MTA300G50	EV-1245
	(47 16V)	(1042-128)	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C86	.1 16V	1042-121				TDC104M050EL	SD35-R109
C87	1 10V	1042-120	ME-1-D-001	EP15-2	PC1-50	MTV1CB50	EV-1315
C89.	4.7 10V	1042-119	RME-A-D-005	EP15-5	PC5-50	VTT4R7A50	EV-1319
C90	47 16V	1042-128	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C101	.47 50V	1042-133				TDC474M050EL	SD35-R479
C107	10 16V	1042-129	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C112	.1 25V	1042-122				TDC104M050EL	SD35-R109
C116	2.2 35V		RME-A-J-002	EP50-2	PC2-100	VTT2R2A50	EV-1517
	(2.2 16V)	(1042-131)	RME-A-E-002	EP15-2	WBR2-50	VTT2R2A50	EV-1317
C117	4.7 25V	1042-130	RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C118	10 16V	1042-129	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C120	22 16V	1074-138	ME-2-E-020	EP15-25	PC20-50	VTT22A16	EV-1224
C121	10 16V	1042-129	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C122	10 16V	1042-129	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C124	220 16V	1042-125	ME-6-E-200	EA15-250	PC200-16	MTV200DE15	EV-1240
C125	47 16V	1042-128	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C140	47 16V	1042-128	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C143	4.7 25V	1042-130	RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C146	10 16V	1042-129	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C149	1 10V	1042-120	ME-1-D-001	EP15-2	PC1-50	MTV1CB50	EV-1315
C151	10 6.3V	1042-118	RME-A-B-010	EP6-10	PC10-25	VTT10A25	EV-1222
C512	4.7 10V	1042-119	RME-A-D-005	EP15-5	PC5-50	VTT4R7A50	EV-1319
C153	4.7 10V	1042-119	RME-A-D-005	EP15-5	PC5-50	VTT4R7A50	EV-1319
C154	4.7 10V	1042-119	RME-A-D-005	EP15-5	PC5-50	VTT4R7A50	EV-1319
C155	33 6.3V	1042-117				TDC336M010FL	SD6-339
C156	100 16V	1042-127	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C158	1 10V	1042-120	ME-1-D-001	EP15-2	PC1-50	MTV1CB50	EV-1315
C162	1 10V	1042-120	ME-1-D-001	EP15-2	PC1-50	MTV1CB50	EV-1315
C164	220 6.3V		ME-6-B-200	EA6-250	PC200-10	MTV200DB10	EV-1140
	(220 16V)	(1042-126)	ME-6-E-200	EA15-250	PC200-16	MTV200DE15	EV-1240
C165	220 16V	1042-125	ME-6-E-200	EA15-250	PC200-16	MTV200DE15	EV-1240
C166	1 10V	1042-120	ME-1-D-001	EP15-2	PC1-50	MTV1CB50	EV-1315
C168	.1 16V	1042-121				TDC104M050EL	SD35-R109
C169	220 6.3V		ME-6-B-200	EA6-250	PC200-10	MTV200DB10	EV-1140
	(220 16V)	(1042-126)	ME-6-E-200	EA15-250	PC200-16	MTV200DE15	EV-1240
C170	220 16V	1042-125	ME-6-E-200	EA15-250	PC200-16	MTV200DE15	EV-1240

COURIER MODEL CENTURION

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C171	470 16V	1042-124	RME-L-E-500	EA15-500	PC500-16	MTV500DN15	EV-1250
C174	220 25V	1042-134	ME-G200	EA30-250	PC200-35	MTV200DE25	EV-1340
C212	1000 25V	1042-123	RME-P-G-1000	EA30-1000	WBR1000-25	MTA1000G25	EV-1360
C221	10 16V	1042-129	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C223	2.2 35V		RME-A-J-002	EP50-2	PC2-100	VTT2R2A50	EV-1517
	(4.7 25V)	(1042-130)	RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C228	2200 25V	1074-37	ME-G2000		WBR2000-25	TC2520A	TVA-1213.5
C230	220 16V	1042-125	ME-6-E-200	EA15-250	PC200-16	MTV200DE15	EV-1240

() Used in some versions.

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENC0 PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	25 10%			DTZ-25		CN0425	10TCC-Q25
C2	.2			UK25-204		MAG24022	HY-770
C3	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C4	.001		CCD-102	DD-102	GP1000	SM210	EV-1360
C5	150 10%		CCD-151	DD-151	GP150	GP315	10TS-T15
C6	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C8	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C9	.039			DD-403		GP140	
C10	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C11	.005		CCD-502	CK-502	MGP005	TA250	TG-D50
C12	10		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C13	3	N470	*			*	10TCT-V30
C14	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C15	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C16	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C17	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C18	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C19	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C20	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C21	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C22	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C23	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C24	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C25	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C26	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C27	20		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C28	40 10%					CN0439	10TCC-Q39
C29	100 10%		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C30	80		CCT0-820	DTZ-82	NP082	CN0482	10TCC-Q82
C31	150		CCD-151	DD-151	GP150	GP315	10TS-T15
C32	150 10%		CCD-151	DD-151	GP150	GP315	10TS-T15
C33	.039			DD-403		GP140	
C34	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C35	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C36	40 10%					CN0439	10TCC-Q39
C37	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C38	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C39	400 10%		CCD-391	DD-391	GP390	GP339	10TS-T39
C40	40 10%					CN0439	10TCC-Q39
C41	.039			DD-403		GP140	
C42	.039			DD-403		GP140	
C43	60 10%					CN0456	10TCC-Q56
C44	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C45	100 10%		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C46	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C47	60 10%					CN0456	10TCC-Q56
C48	.039			DD-403		GP140	
C49	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C50	60 10%					CN0456	10TCC-Q56
C52	.039			DD-403		GP140	
C53	.039			DD-403		GP140	
C54	.039			DD-403		GP140	
C55	.039			DD-403		GP140	
C56	.039			DD-403		GP140	
C57	.039			DD-403		GP140	
C58	5				NP05		10TCC-V50
C59	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C60	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C61	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C63	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C64	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C65	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C67	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C68	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C69	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C70	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C71	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C72	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C73	.04			DD-403		GP140	
C74	.04			DD-403		GP140	
C75	.039			DD-403		GP140	
C76	.039			DD-403		GP140	
C77	.039			DD-403		GP140	
C78	.039			DD-403		GP140	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCOPART No.	CENTRALABPART No.	CORNELL-DUBILIERPART No.	MALLORYPART No.	SPRAGUEPART No.
C79	.04			DD-403		GP140	
C80	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C81	.018		CCD-203	CK-203	MGP02	TA120	TG-S20
C83	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C88	.04			DD-403		GP140	
C91	20	N750	*	DTN-20	N20	CN7420	10TCU-Q20
C92	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C93	150	10%	CCD-151	DD-151	GP150	GP315	10TS-T15
C94	.039			DD-403		GP140	
C95	.039			DD-403		GP140	
C96	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C97	.039			DD-403		GP140	
C98	500	10%	DM-19-501J	CPR-510J	CD15FD511J03	SX351	424ME5100J501
C99	.039			DD-403		GP140	
C100	.039			DD-403		GP140	
C102	.039			DD-403		GP140	
C103	.039			DD-403		GP140	
C104	.039			DD-403		GP140	
C105	.039			DD-403		GP140	
C106	.039			DD-403		GP140	
C108	25	10%		DTZ-25		CN0425	10TCC-Q25
C109	.039			DD-403		GP140	
C110	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C111	500	10%	CCD-501	DD-501	GP500	GP350	10TS-T50
C113	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C114	.018		CCD-203	CK-203	MGP02	TA120	TG-S20
C115	.039			DD-403		GP140	
C119	.039			DD-403		GP140	
C123	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C126	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C127	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C128	.039			DD-403		GP140	
C129	20	N750	*	DTN-20	N20	CN7420	10TCU-Q20
C130	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C131	.039			DD-403		GP140	
C132	20	N750	*	DTN-20	N20	CN7420	10TCU-Q20
C133	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C134	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C135	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C136	100	10%	CCD-101	DD-101	GP100	GP310	10TS-T10
C137	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C138	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C139	.039			DD-403		GP140	
C141	.039			DD-403		GP140	
C142	6						
C144	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-V56
C145	.01		CCD-103	CK-103	MGP01	TA110	10TCC-Q10
C147	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C148	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C150	.039			DD-403		GP140	
C157	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C159	.04			DD-403		GP140	
C160	.04			DD-403		GP140	
C161	.039			DD-403		GP140	
C163	.039			DD-403		GP140	
C167	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C172	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C173	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C175	50	10%	CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C176	.039			DD-403		GP140	
C177	.039			DD-403		GP140	
C178	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C179	5				NP05		10TCC-V50
C180	.039			DD-403		GP140	
C181	1				CN0510		10TCC-V10
C182	30	10%	CCTO-300				10TCC-Q30
C183	.039			DD-403		GP140	
C184	.039			DD-403		GP140	
C185	.04			DD-403		GP140	
C186	.039			DD-403		GP140	
C187	30	10%	CCTO-300				10TCC-Q30
C188	220	10%	CCD-221	DD-221	GP220	GP322	10TS-T22
C189	.039			DD-403		GP140	
C190	4				NP03P9		10TCC-V39
C191	.039			DD-403		GP140	
C192	.039			DD-403		GP140	
C193	.039			DD-403		GP140	
C194	80	10%	CCTO-820	DTZ-82	NP082	CN0482	10TCC-Q82
C195	.039			DD-403		GP140	
C196	.039			DD-403		GP140	
C197	.039			DD-403		GP140	
C198	250	10%	CCD-270	DD-271	GP270	GP327	10TS-T27
C199	150	10%	CCD-151	DD-151	GP150	GP315	10TS-T15
C200	250	10%	CCD-270	DD-271	GP270	GP327	10TS-T27
C201	330	10%	CCD-331	DD-331	GP330	GP333	10TS-T33
C202	120		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C203	.04			DD-403		GP140	
C204	.039			DD-403		GP140	
C205	.039			DD-403		GP140	
C206	.04			DD-403		GP140	
C207	.04			DD-403		GP140	

COURIER MODEL CENTURION

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

CAPACITORS (cont.)			REPLACEMENT DATA					
ITEM No.	RATING	MFR. PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C208	.01	10%	CCD-103	CK-103	MGP01	TA110	TG-S10	
C209	.01		CCD-103	CK-103	MGP01	TA110	TG-S10	
C210	.01		CCD-103	CK-103	MGP01	TA110	TG-S10	
C211	.039		CCD-102	DD-403	GP1000	GP140	2SS-D10	
C213	.001			DD-102		SM210		
C214	.039			DD-403		GP140		
C215	.039			DD-403		GP140		
C216	.039			DD-403		GP140		
C217	.039			DD-403		GP140		
C218	.2			UK-204		MAG25022		
C219	10			CCT0-100		DTZ-10		NP010
C220	.01		CCD-103	CK-103	MGP01	TA110	TG-S10	
C222	.039		CCD-102	DD-403	GP1000	GP140	10TCC-Q25	
C224	25			DTZ-25		CN0425		
C225	.04			DD-403		GP140		
C226	.039			DD-403		GP140		
C227	.001			DD-102		SM210		
C229	.01			CK-103		MGP01		
C231	.01			CCD-103		MGP01		
C232	.01			CCD-103		MGP01		
C233	.04			DD-403		GP140		
C234	.01		CCD-103	CK-103	MGP01	TA110	TG-S10	
C235	.068		CCD-503	CK-503	MGP05	TA150	TG-S50	
C236	.04	10%	DD-403	GP140	GP140	10TCC-Q25		
C237	.04		DD-403		GP140			
C238	25		DTZ-25		CN0425			
CT1	50		1042-53		1042-53			
CT2	20							
CT3	20							
CT4	20							
CT5	20							
CT6	20							
CT7	20							
CT8	20							
CT9	20							
CT10	20							
CT11	20							
CT12	20							
CT13	20							
CT14	20							
CT15	20							
CT16	20							
CT17	20							
CT18	20							
CT19	20							
CT20	150							
		1042-102						

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
VR1	RF Gain	100K	1042-95	TSV-100K or T-100K	C-104	X201R104B	MTC15L1
VR2	AM "S" Meter	10K	1042-98	TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1 (1)
VR3	AM Squelch Range	10K	1042-98	TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1 (1)
VR4	SSB "S" Meter	20K	1042-97	T-20K or TSV-25K	C-253	X201R252B	MTC24L1
VR5	AM Volume	100K	1042-96	TSV-100 K (1) or T-100K (1)	C-104 (1)	X201R104B (1)	MTC15L1 (1)
VR6	SSB Squelch	500K	1042-73	TSV-500K (1) or T-500K (1)	C-504 (1)	X201R504B (1)	MTC55L1 (1)
VR7	RF Range	10K	1042-98	TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1 (1)
VR8	RF Gain	10K	1074-20	F1-10K, SNK100	A47-100K-S, RS-2 or [NP-10K-S, UP-A-400]	BU1, CF9, SS5, DC1	UA14L, SN1000 or U20]
VR9	AM Squelch	300K	1042-94	TSV-500K (1) or T-500K (1)	C-504 (1)	X201R504B (1)	MTC3253L1 (1)
VR10	Squelch/Switch	100K	1074-128	F1-100K, SPU304, KR8FR	NP-100K-S, UPP-A-400, PPAP, NWG-18	BU1, CF13, SS10, K	RUP154L, SL38, SL250
VR11	SSB "S" Meter	10K	1042-98	TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1 (1)
VR12	SSB Gain	10K	1042-98	TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1 (1)
VR13	SSB Gain	470	1042-87	TSV-500 (2) or T-500 (2)	C-501 (2)	X201R501B (2)	MTC52L1 (2)
VR14	SSB Modulation Balance	10K	1042-98	TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1 (1)
VR15	SSB Modulation	5000	1042-99	TSV-5K or T-5000	C-502	X201R502B	MTC52L1
VR16	Volume	10K	1074-18	F2-10K, SNK100	A47-10K-Z, RS-2 or [NP-10K-Z, UP-A-400]	BU1, CF61, SS5, DC1	UA14A, SN1000 or [RU14A, SL38, SN1000 or U18]

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	MFRG. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
IPT	1.0	1.0		1074-02 (8308)				() On Unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFRG. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
OPT	32	8	1074-03 (8307)				() On Unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFRG. PART No.	QUAM PART No.	
SP1	3 x 5" PM 8 ohms	1074-10 (121-56)	35A05Z8	() On Unit.

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	1A 250V	1074-08		AGC1	HKP	312001	342104	FG1-2
F2	2A 3AG 125V Slo-Blo	1042-104		MDL2	HKP	313002	342104	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Meter	1074-23	SWR
M2	Meter	1074-24	S/Rf
M3	Clock	1074-06	
MF1	Ceramic Filter	1042-50	455 KHz
S1	Switch	1042-64	Channel Selector
S2	Switch	1074-14	Mode (Includes S2, S10, S11)
S3	Switch	1074-15	Power
S4	Switch	1042-61	DC Power
S5	Switch	1074-14	Blanker, Noise
S6	Switch	1074-15	PA/CB Selector
S7	Switch	1074-16	SWR Cal.
S8	Relay	1042-59	Xmit. -Rec.
S9	Relay	1074-24	SSB
T13	Mechanical Filter	1042-49	455 KHz
X1D	Crystal	1042-67	11.000 MHz
X2E	Crystal	1042-68	11.050 MHz
X3F	Crystal	1042-69	11.100 MHz
X4I	Crystal	1042-70	11.150 MHz
X5H	Crystal	1042-71	11.200 MHz
X6G	Crystal	1042-72	11.250 MHz
X7J	Crystal	1042-73	8.1665 MHz
X8K	Crystal	1042-74	8.1765 MHz
X9L	Crystal	1042-75	8.1865 MHz
X10M	Crystal	1042-76	8.2065 MHz
X11N	Crystal	1042-77	8.1635 MHz
X12O	Crystal	1042-78	8.1735 MHz
X13X	Crystal	1042-79	8.1835 MHz
X14Y	Crystal	1042-80	8.2035 MHz
X15C	Crystal	1042-81	7.3435 MHz
X16B	Crystal	1042-82	7.7985 MHz
X17A	Crystal	1042-83	7.8015 MHz
XF1	Crystal Filter	1042-84	7.8 MHz

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

ITEM	PART No.	ITEM	PART No.
Knob, Channel	1074-67	Knob, Power Switch	1074-92
Knob, Clock	1074-69	Knob, Volume	1074-68
Knob, Clock	1074-70	Kial, Channel	1074-109

ACCESSORIES

ITEM	MFRG. PART No.	REMARKS
Microphone	1042-58	W/hanger.
Plug, DC power connector	1042-61	
Cord, DC power	1074-114	W/plug.

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[®] with CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

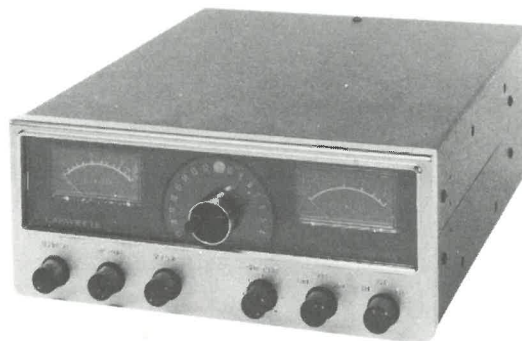
NOTE

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 Telsat SSB-25A (99-32559W)

SYNTHESIZER ALIGNMENT

Trimmer capacitors should not require adjustment unless an oscillator circuit component has been replaced.

23MHz OSCILLATOR
Connect a frequency meter or counter input to TP1 (emitter of Q1). Set FINE TUNE control to center position. Key transmitter and adjust to frequency $\pm 25\text{Hz}$.

CHANNEL SELECTOR	ADJUST	FREQUENCY
1	TC1	23.330MHz
5	TC2	23.380MHz
9	TC3	23.430MHz
13	TC4	23.480MHz
17	TC5	23.530MHz
21	TC6	23.580MHz

With FINE TUNE control in center position oscillator frequency should not change when transmitter is un-keyed; adjust trimmer on back of FINE TUNE control to equalize transmit and receive frequencies if necessary.

14MHz OSCILLATORS
Connect a frequency meter or counter to TP3 (emitter of Q3). Set mode switch to USB or AM. Adjust to frequency $\pm 5\text{Hz}$.

CHANNEL SELECTOR	ADJUST	FREQUENCY
1	TC7	14.910MHz
2	TC8	14.920MHz
3	TC9	14.930MHz
4	TC10	14.950MHz

Connect frequency meter or counter to TP4 (emitter of Q4). Set mode switch to LSB. Adjust to frequency $\pm 5\text{kHz}$.

CHANNEL SELECTOR	ADJUST	FREQUENCY
1	TC11	14.907MHz
2	TC12	14.917MHz
3	TC13	14.927MHz
4	TC14	14.947MHz

11MHz OSCILLATORS
Connect a frequency meter or counter to TP6 (emitter of Q6). Set mode switch to USB. Adjust TC15 to frequency of 11.275MHz.

Connect frequency meter or counter to TP7 (emitter of Q7). Set mode switch to LSB. Adjust TC16 to frequency of 11.272MHz.

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

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LAFAYETTE MODEL SSB-25A

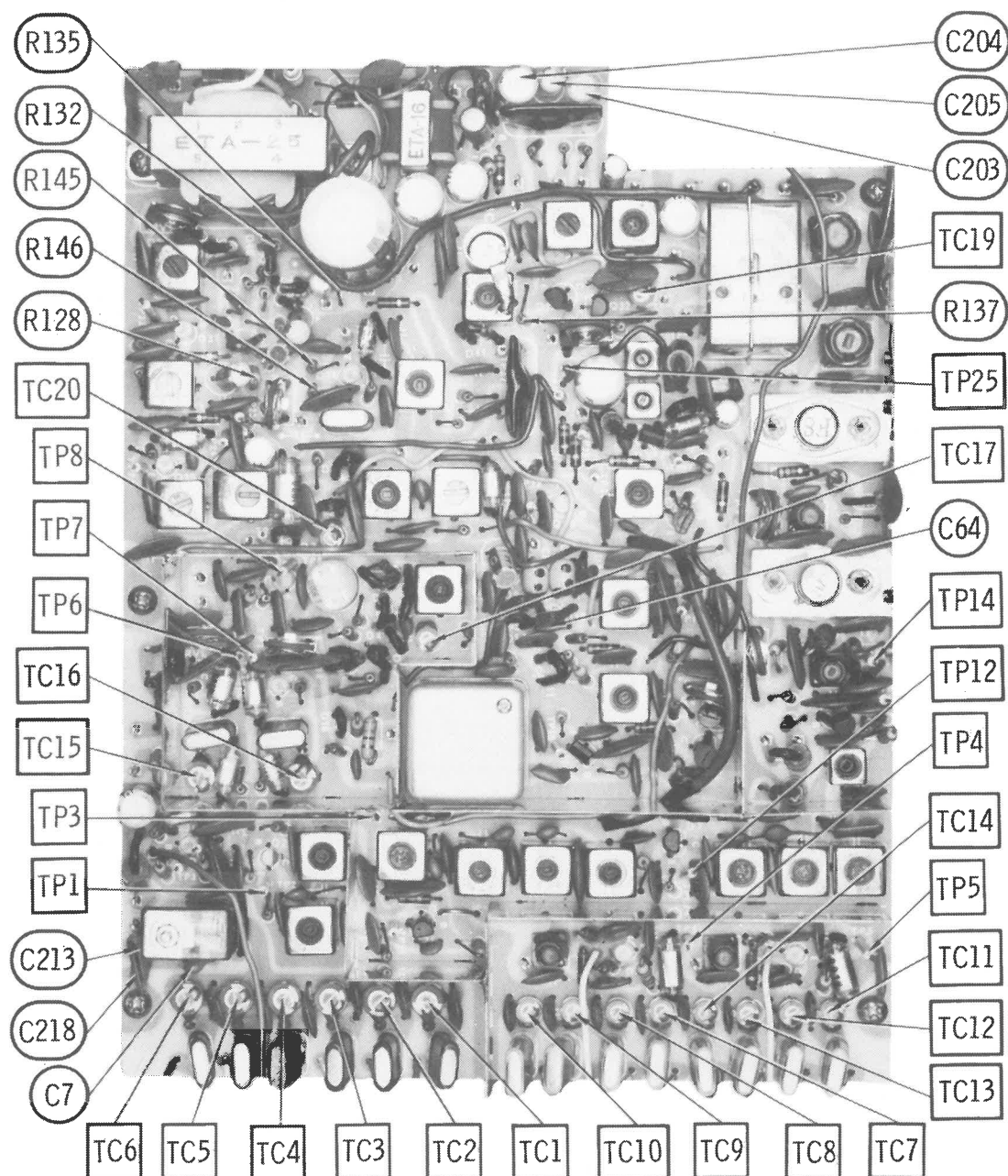
RECEIVER ALIGNMENT

Suggested Alignment Tools:		GC ELECTRONICS
L1 thru L16, L21, L24, L26, L30, L32, L33	#9440	
L18, L26 thru L29, L31	#9087, 9089	
L19, L20	#9440, 9295, 9302	

Connect an AC VTVM across speaker voice coil. Set SQUELCH control fully counterclockwise, FINE TUNE to center position, and ANL/NS to ANL. Adjust VOLUME control for suitable reading.

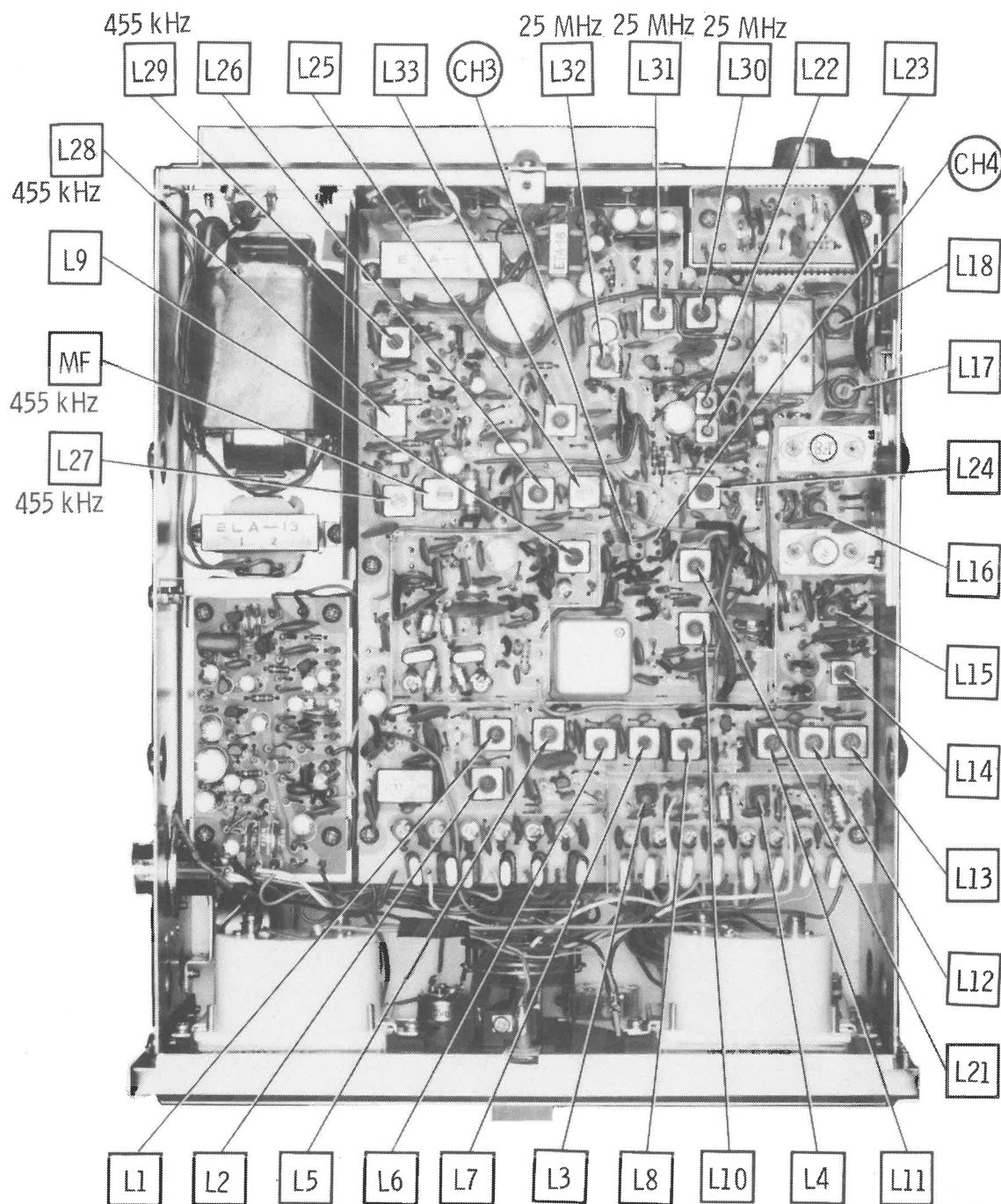
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
AM Connect high side thru .01mfd to cathode of D35 or D36 (2nd Mixer), low side to ground. Set to 455kHz (Mod).	Any	L29, L28, L27, MF	Set mode switch to AM. Adjust for maximum.
Connect high side thru .01mfd to antenna connector, low side to chassis. Set to 27.085MHz. (Channel 11) (Mod.)	11	L33, L26, L24, L23, L22	Adjust for maximum.
AM SQUELCH ADJUSTMENT Connect high side thru .01mfd to antenna connector, low side to chassis. Set to 27.085MHz (Channel 11) (Unmod). Set output level to desired squelch maximum.	11	RV15	Turn SQUELCH control fully clockwise (maximum). Adjust until squelch just opens.
AM S-METER ADJUSTMENT As above. Set output level to 150uv.	11	RV14	Adjust for reading of 9 on S-RF meter.
SSB Connect high side thru .01mfd to antenna connector, low side to chassis. Set output to 27.086MHz. (Unmod).	11	L25, L10, L21, RV11	Set mode switch to USB. Adjust for maximum.
SSB SQUELCH ADJUSTMENT As above. Set output level to desired squelch maximum.	11	RV12	Turn SQUELCH control fully clockwise. Adjust until squelch just opens.
SSB S-METER ADJUSTMENT As above. Set output level to 150uv.	11	RV13	Adjust for reading of 9 on S-RF meter.
NOISE SILENCER ADJUSTMENT Connect high side thru .01mfd to antenna connector, low side to chassis. Set to approximately 24MHz. (Mod). Connect the vertical input of an oscilloscope to observe detected signal, high side to TP25, low side to ground.		L32, L31, L30, TC19	Set ANL/NS switch to NS. Adjust for maximum without causing oscillation. Band width should be at least 500kHz, centered near 24MHz.

(CONTINUED ON PAGE 44)

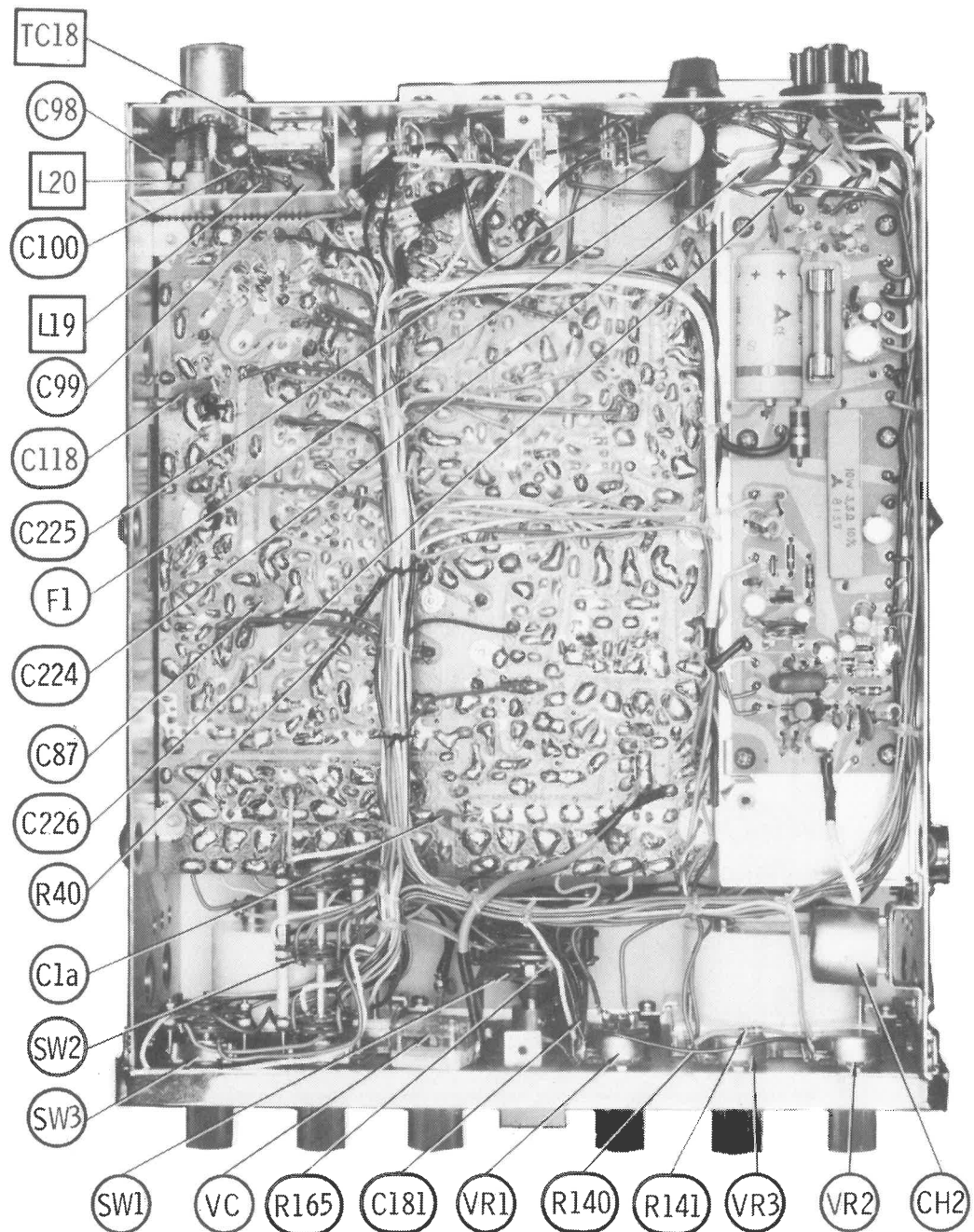


TRANSMITTER ALIGNMENT

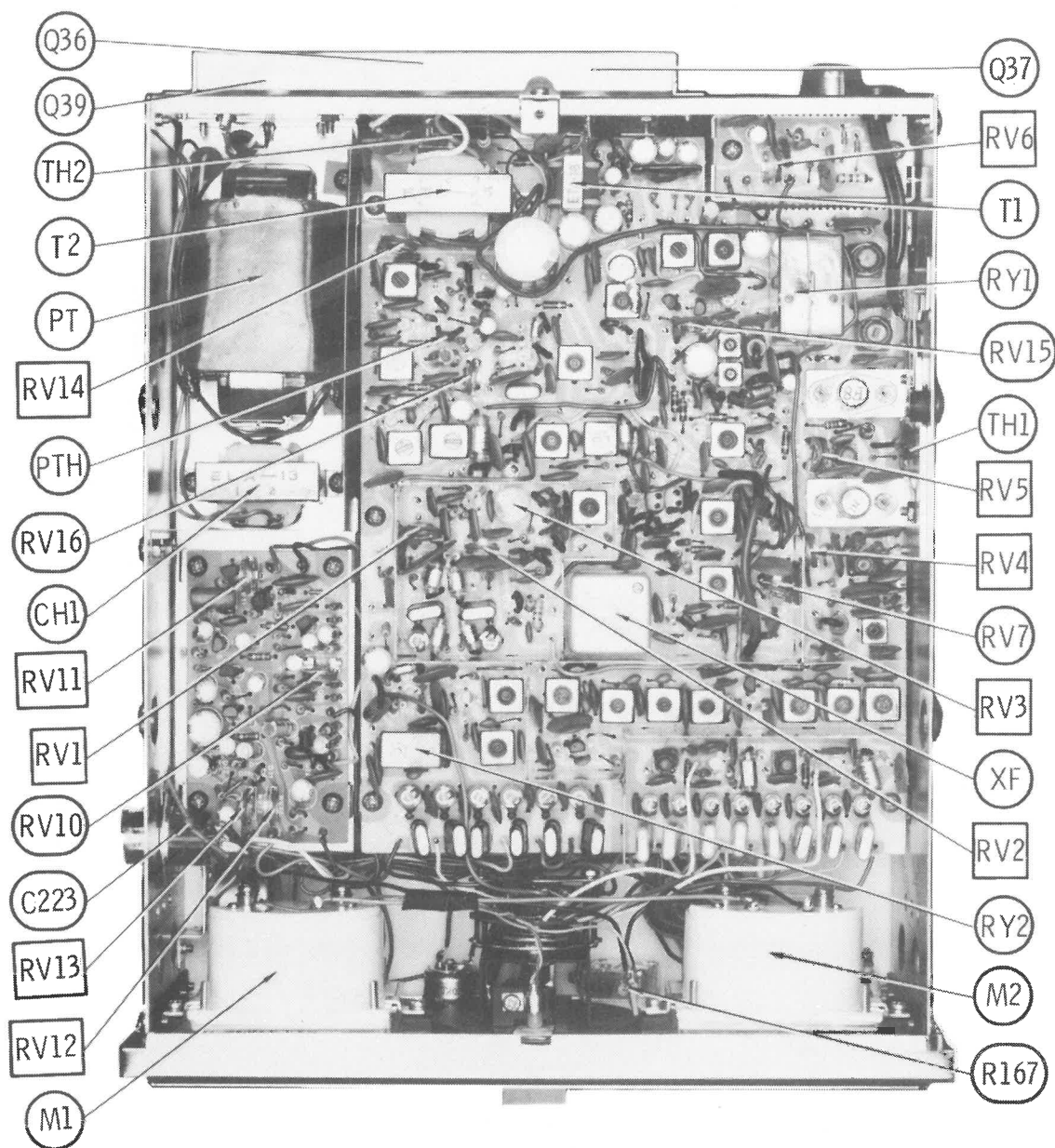
INDICATOR	ADJUST	REMARKS
AM Measure voltage to ground at TP12 with a DC VTVM.	L1, L2, L5, L6, L7, L8, L11, L12, L13, L14.	Set mode switch to AM. Key transmitter and adjust for MINIMUM voltage, approximately equal on all channels.
Connect an RF wattmeter between antenna connector and dummy load. Insert a 0-500ma DC ammeter in collector circuit of Q13 (RF Amp) at TP14.	L15, L16, L18, L19, TC18.	Adjust for maximum output. Readjust L19 to reduce DC input to 5 watts.
RF-METER ADJUSTMENT RF wattmeter as above.	RV6	Adjust for S-RF meter reading to agree with wattmeter.
AM MODULATION ADJUSTMENT Connect a modulation monitor across dummy load.	RV8	Key transmitter, speak into microphone, adjust to limit modulation to 100%.
SSB BALANCED MODULATOR ADJUSTMENT Measure voltage to ground at TP8 with a DC VTVM.	RV1, RV2.	Adjust for equal readings at TP8 with mode switch in USB (RV1) and LSB (RV2) (approximately 1.7V).
Connect an RF voltmeter across dummy load.	RV3, TC17.	Set mode switch to USB or LSB. Remove microphone plug from socket; key transmitter by shorting point A to ground. Adjust for MINIMUM RF output. Remove short key transmitter.
Connect an audio frequency generator to center connector of microphone socket. Set to 1kHz. Connect an RF wattmeter between antenna connector and dummy load.	L9, L10	Adjust output level of audio generator for RF output of about 1 watt. Adjust L9 and L10 for maximum output.
SSB BIAS ADJUSTMENT Measure voltage to ground at the junction of R48 and RV4 (RF Driver emitter circuit).	RV4	Set mode switch to USB or LSB. Adjust for 7.50V.
Measure voltage at junction of R51 and RV5. (RF Final Amp emitter circuit).	RV5	Adjust for 5.00V.
TVI ADJUSTMENT TV REC. (Ch. 2)	L20	Set mode switch to AM. Key transmitter; adjust for MINIMUM interference.

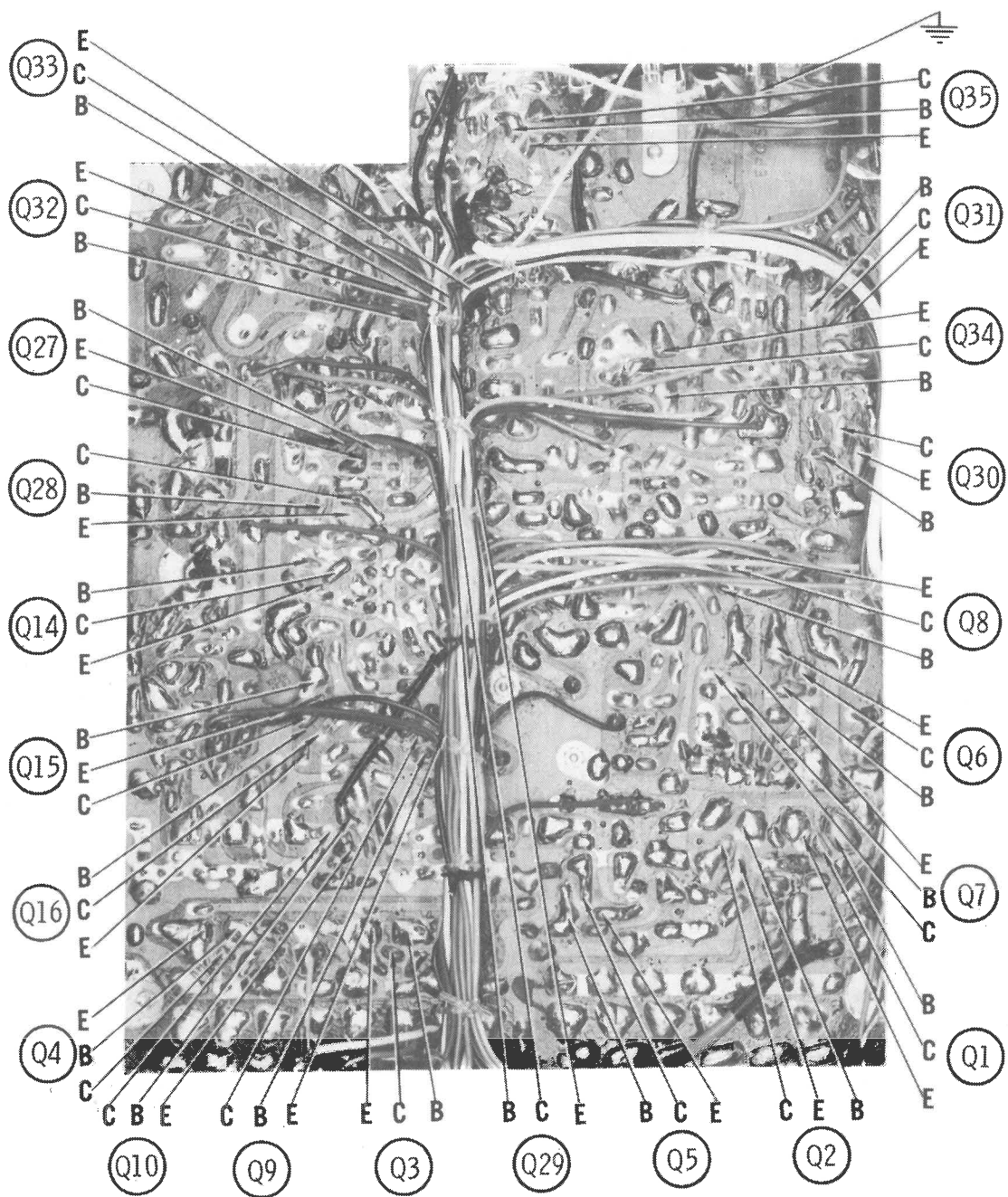


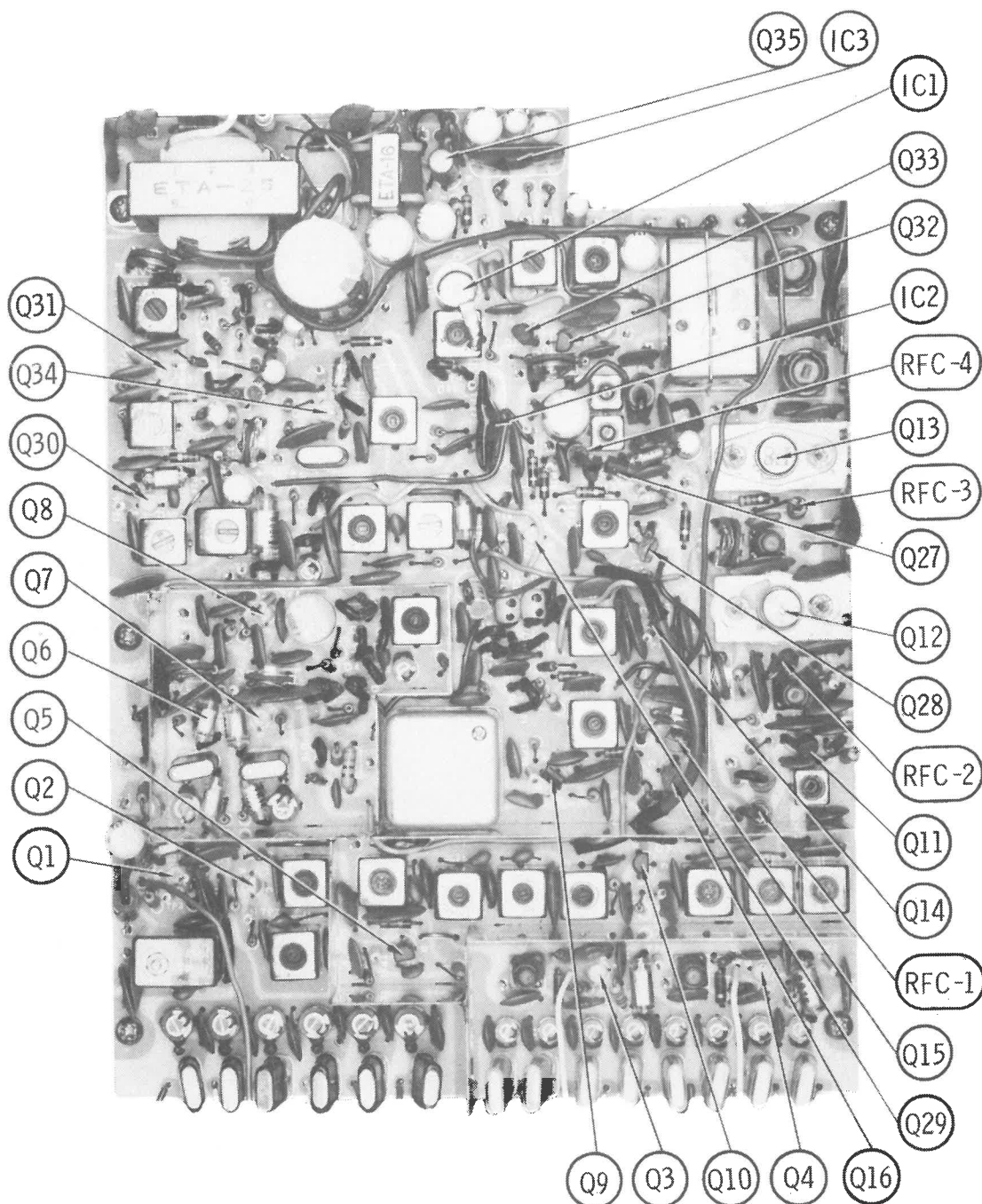
LAFAYETTE MODEL SSB-25A

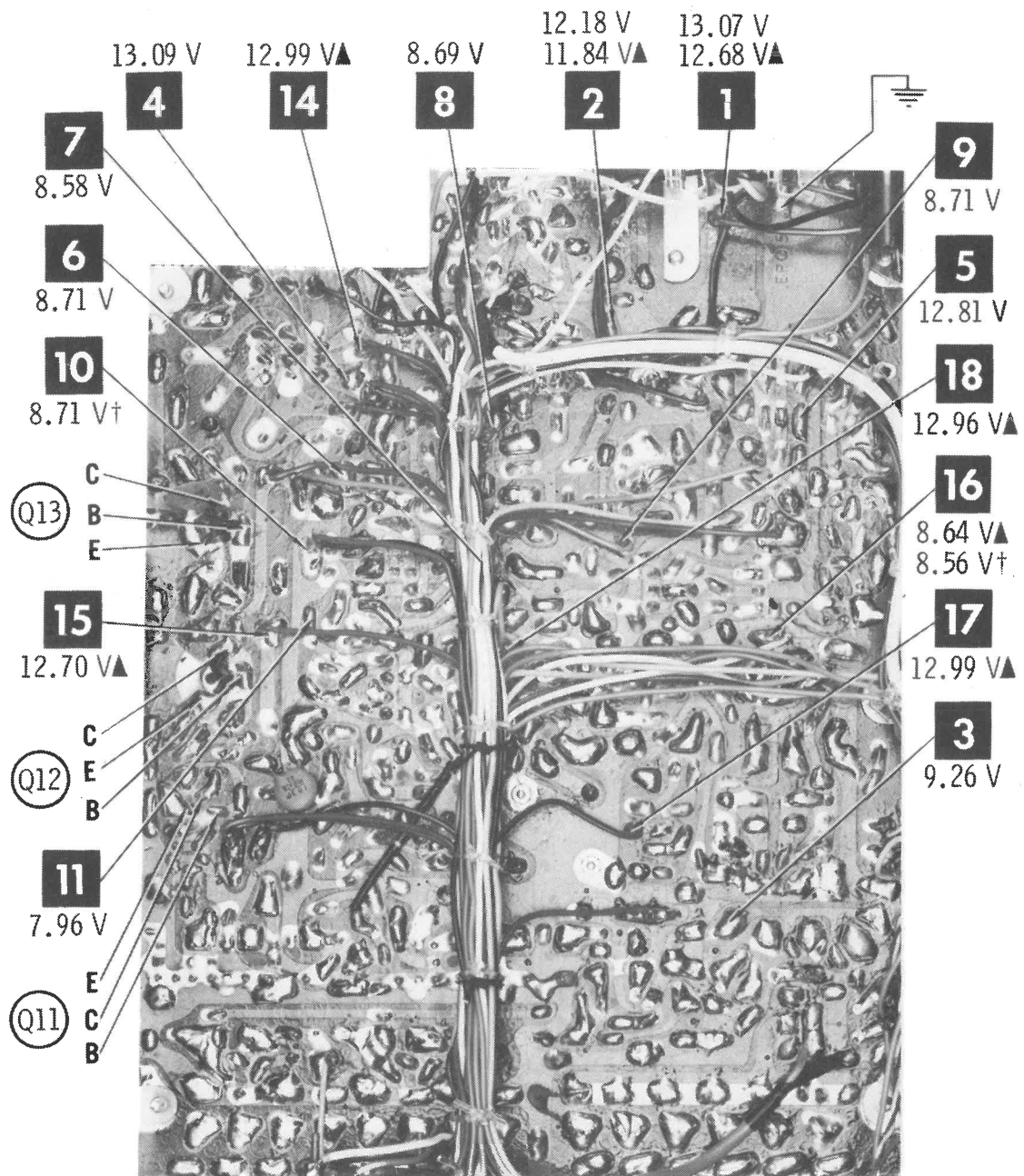


LAFAYETTE MODEL SSB-25A



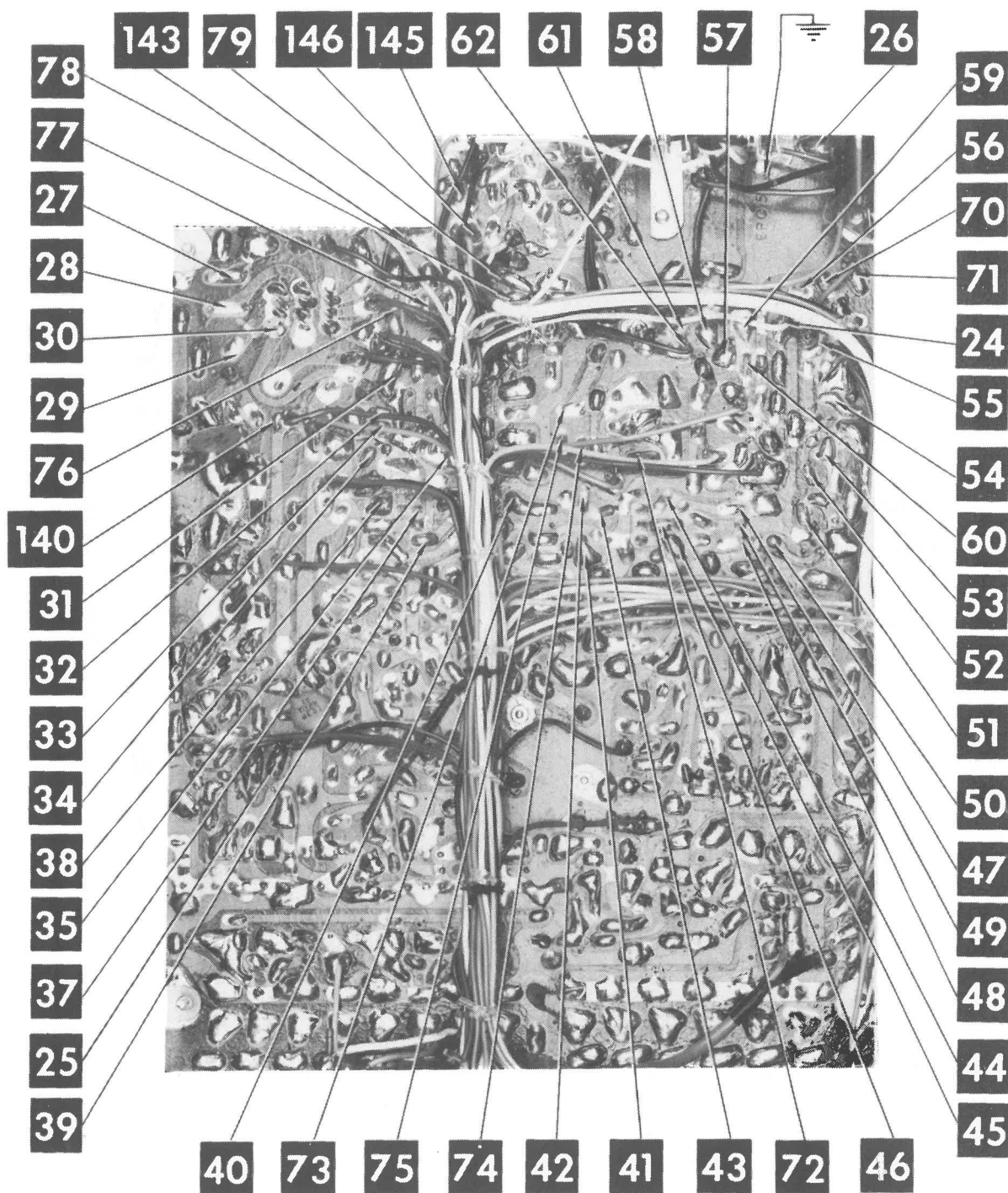


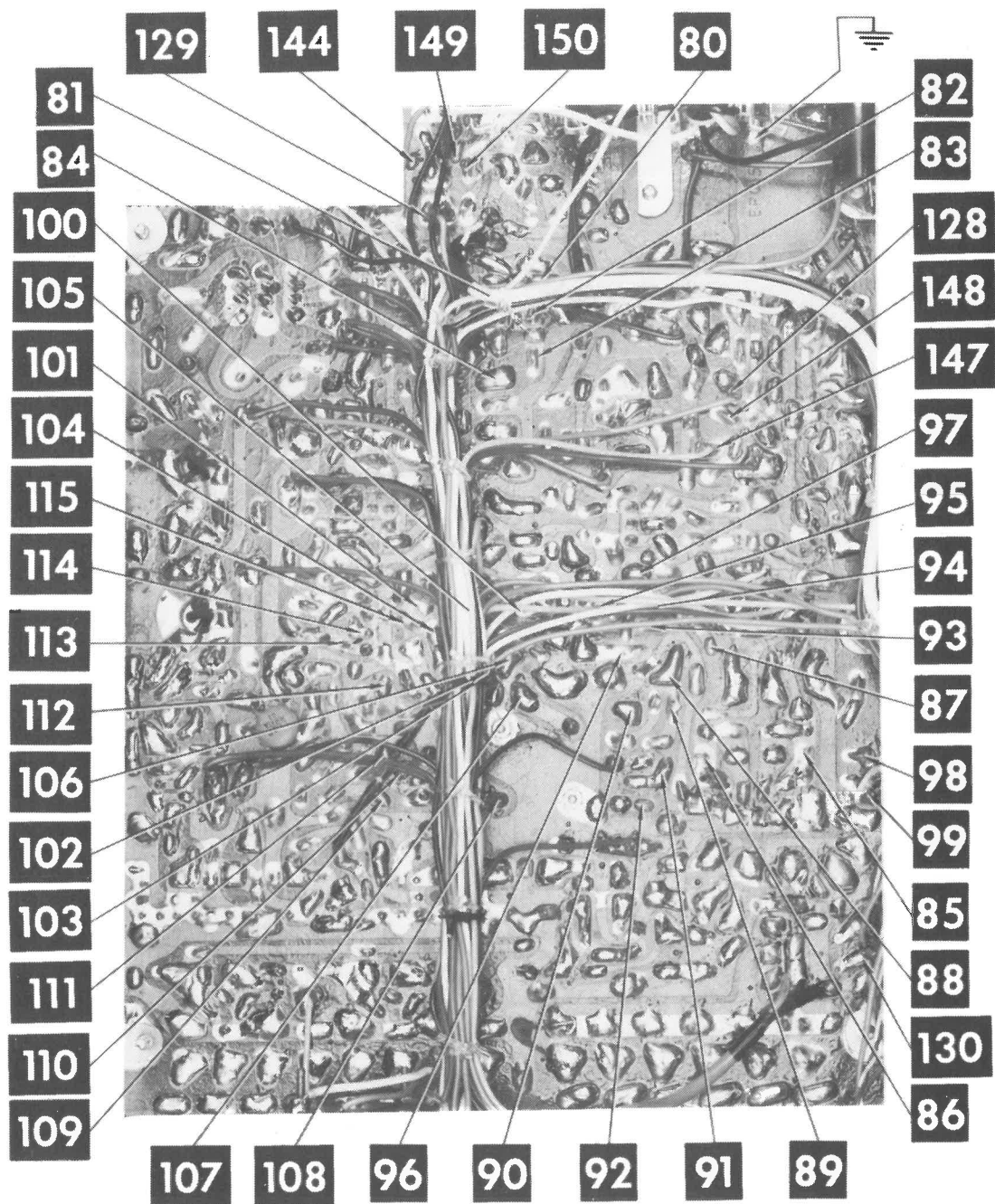


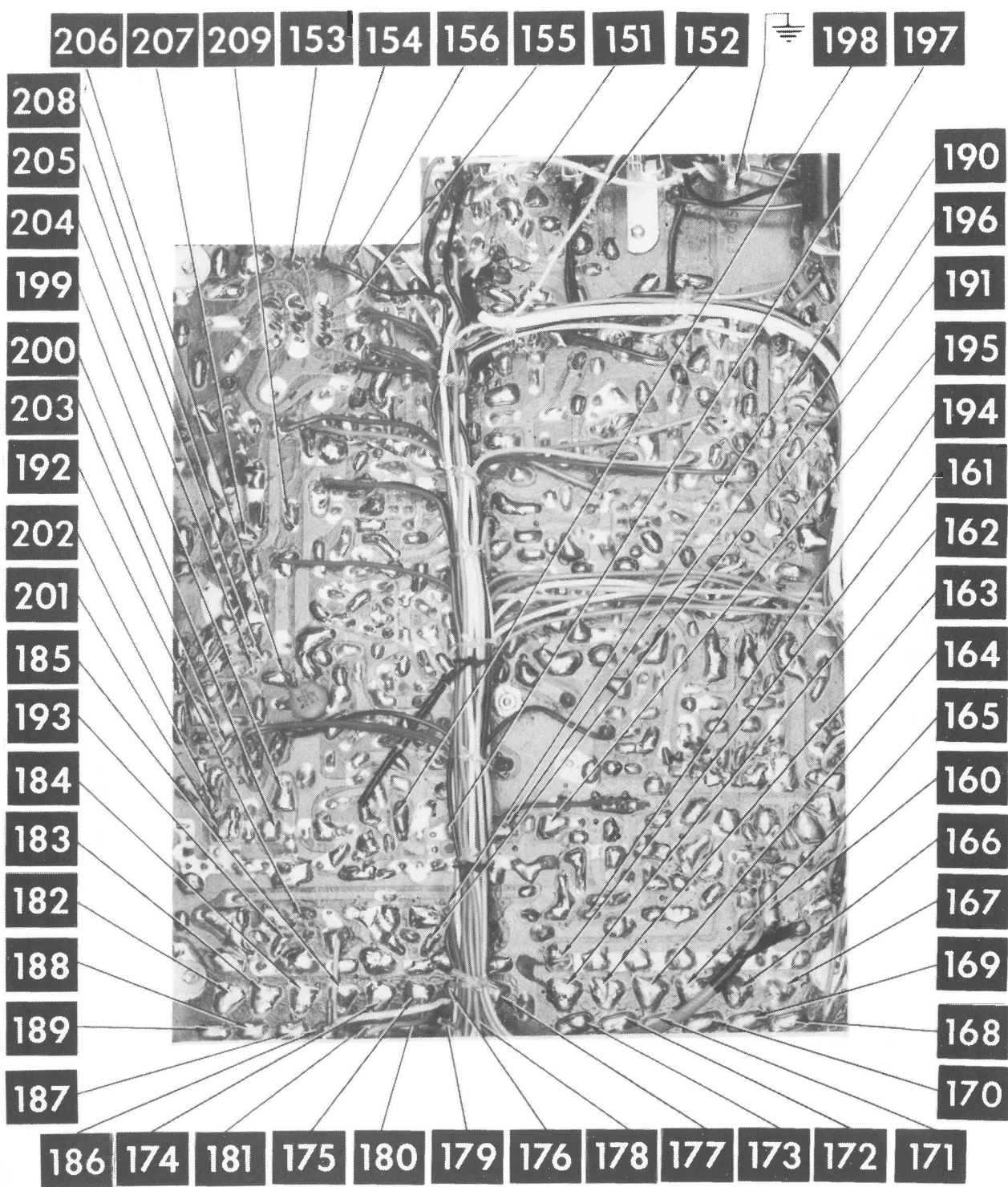


▲ TRANSMIT
 †SSB

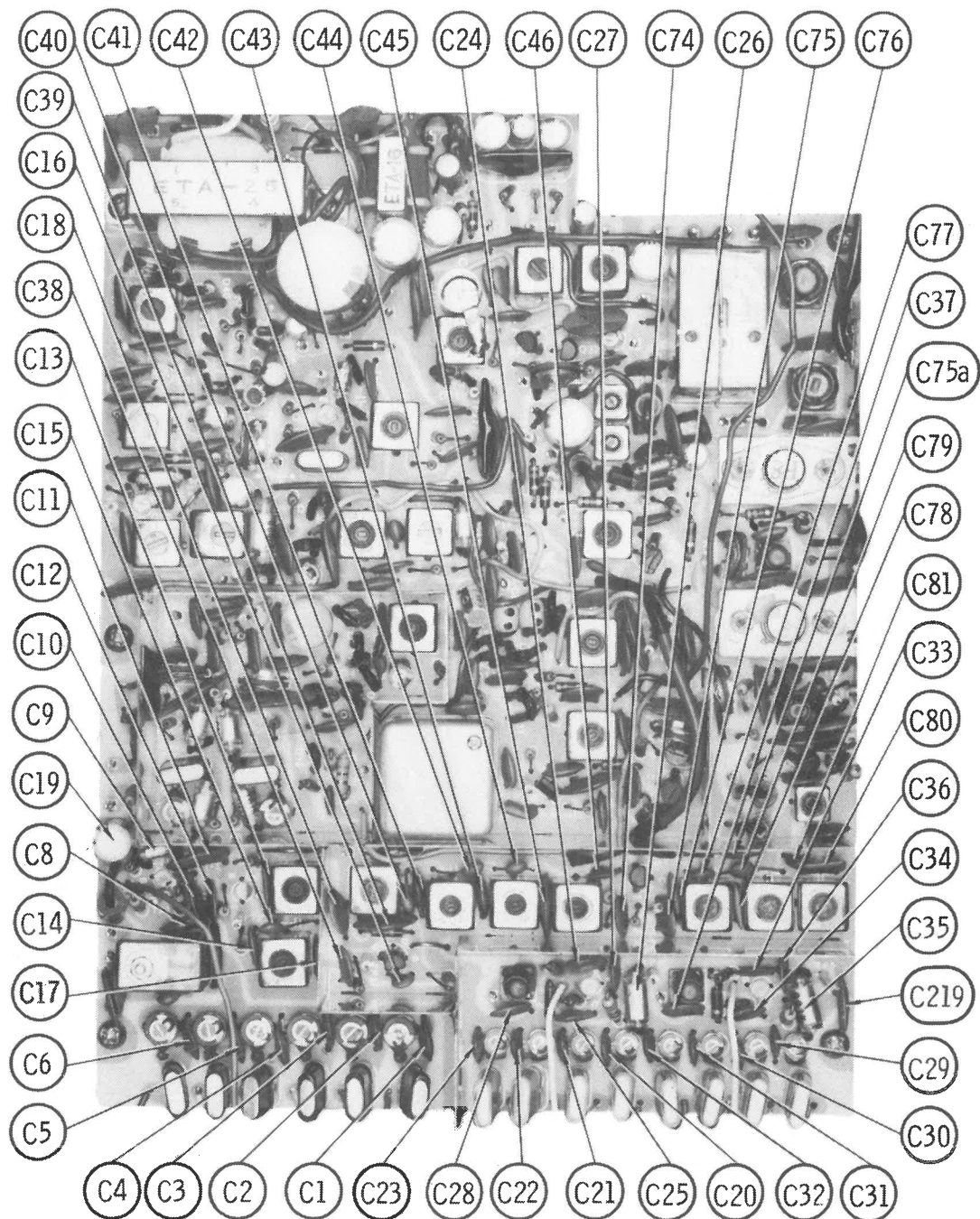
LAFAYETTE MODEL SSB-25A



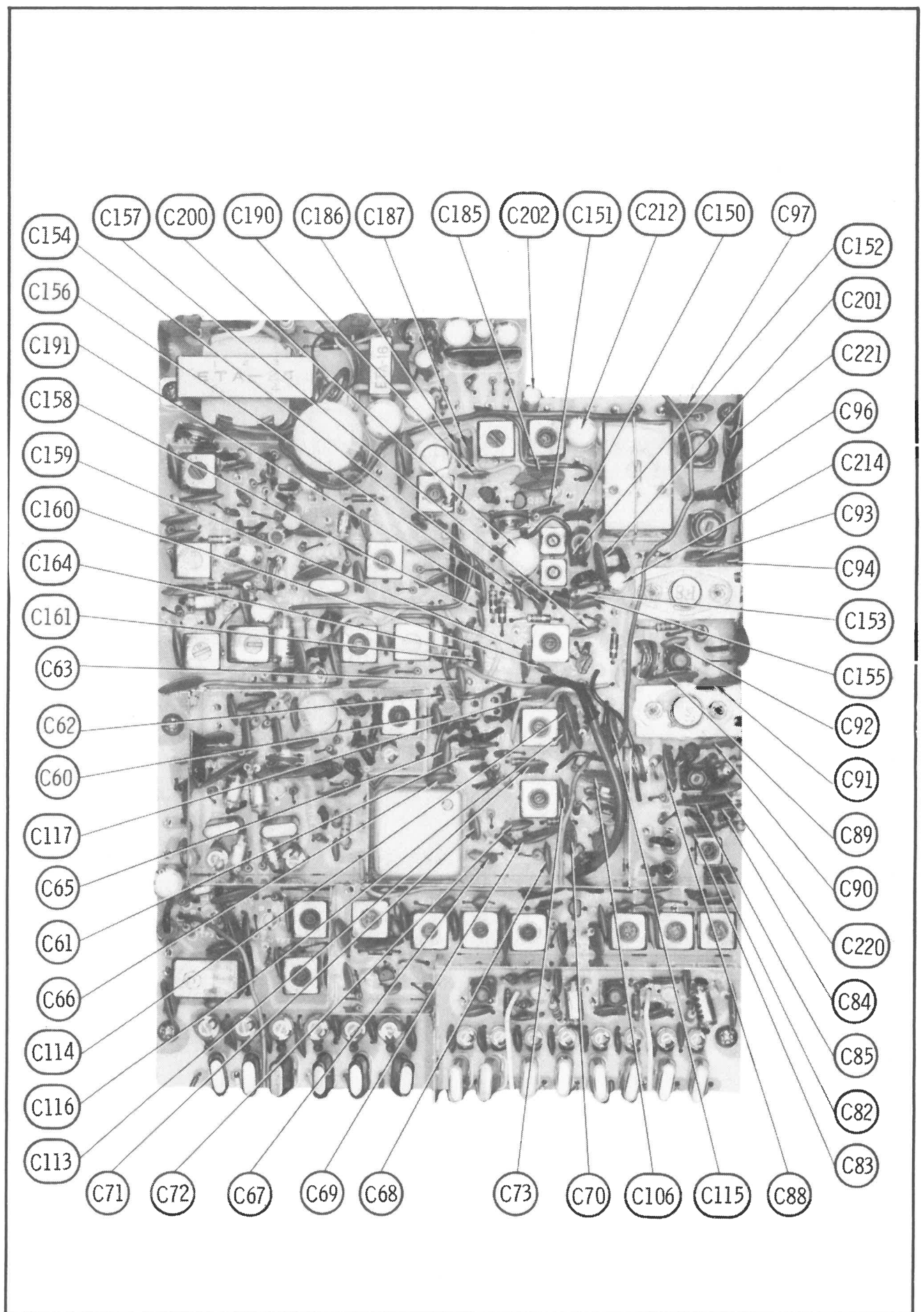


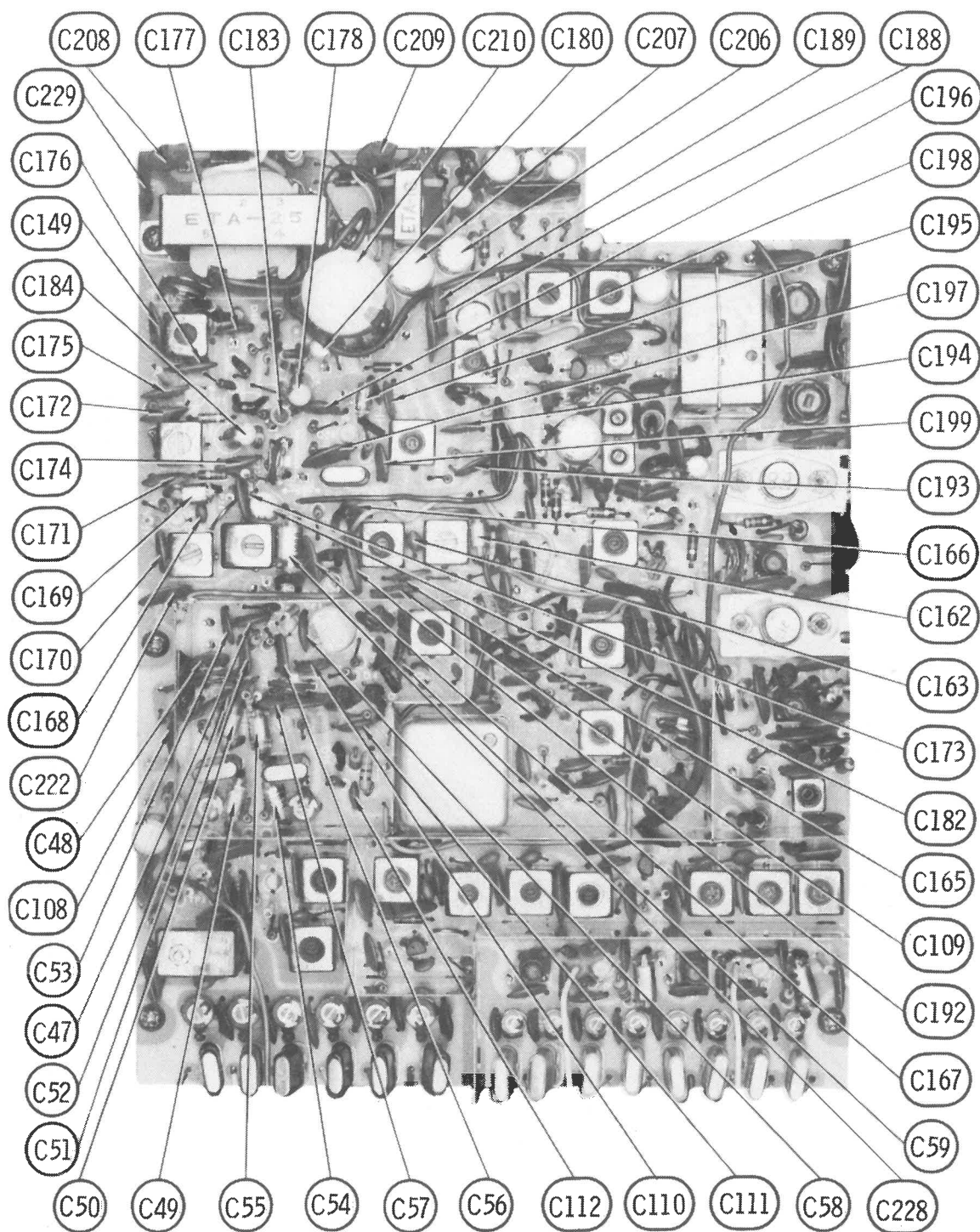


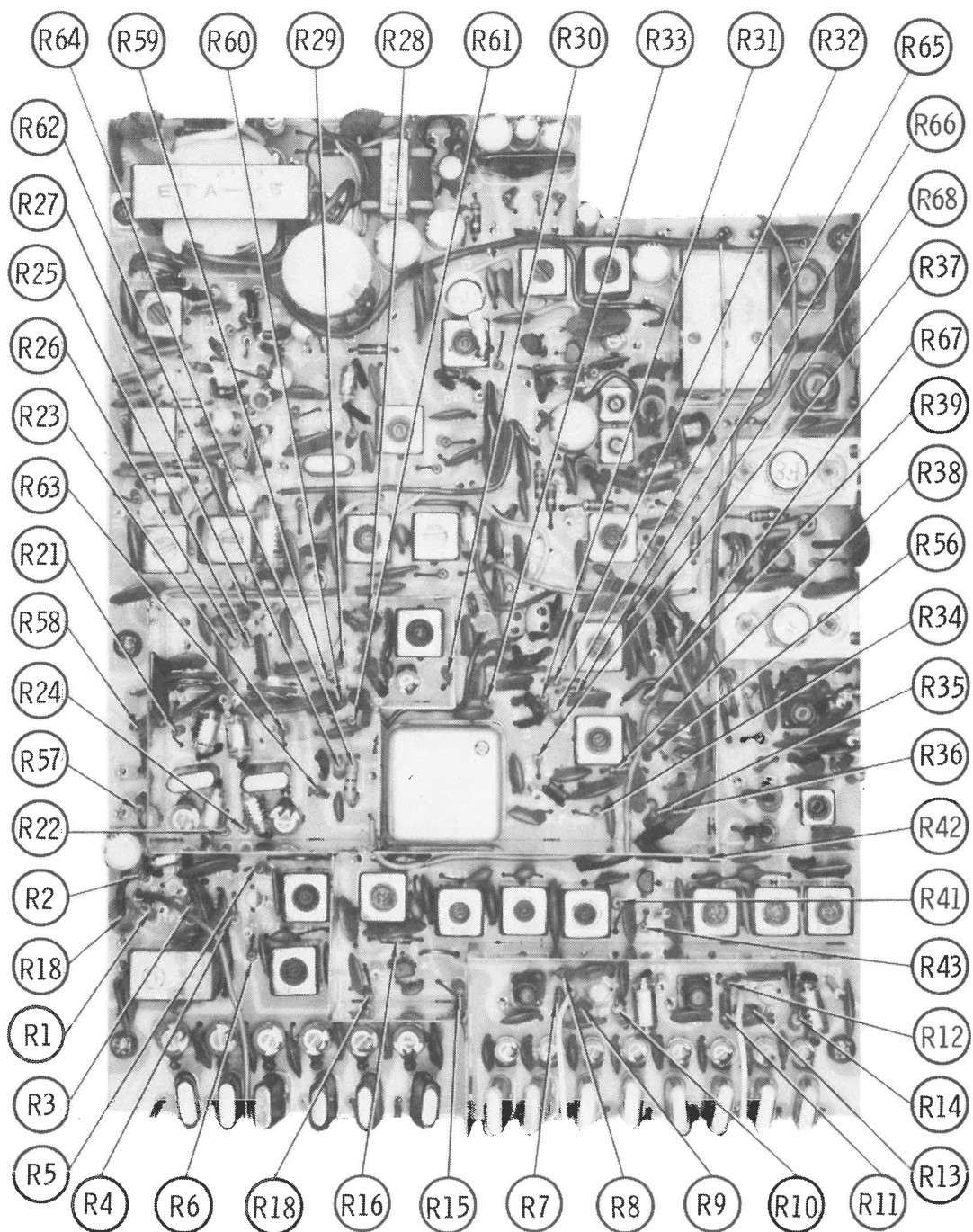
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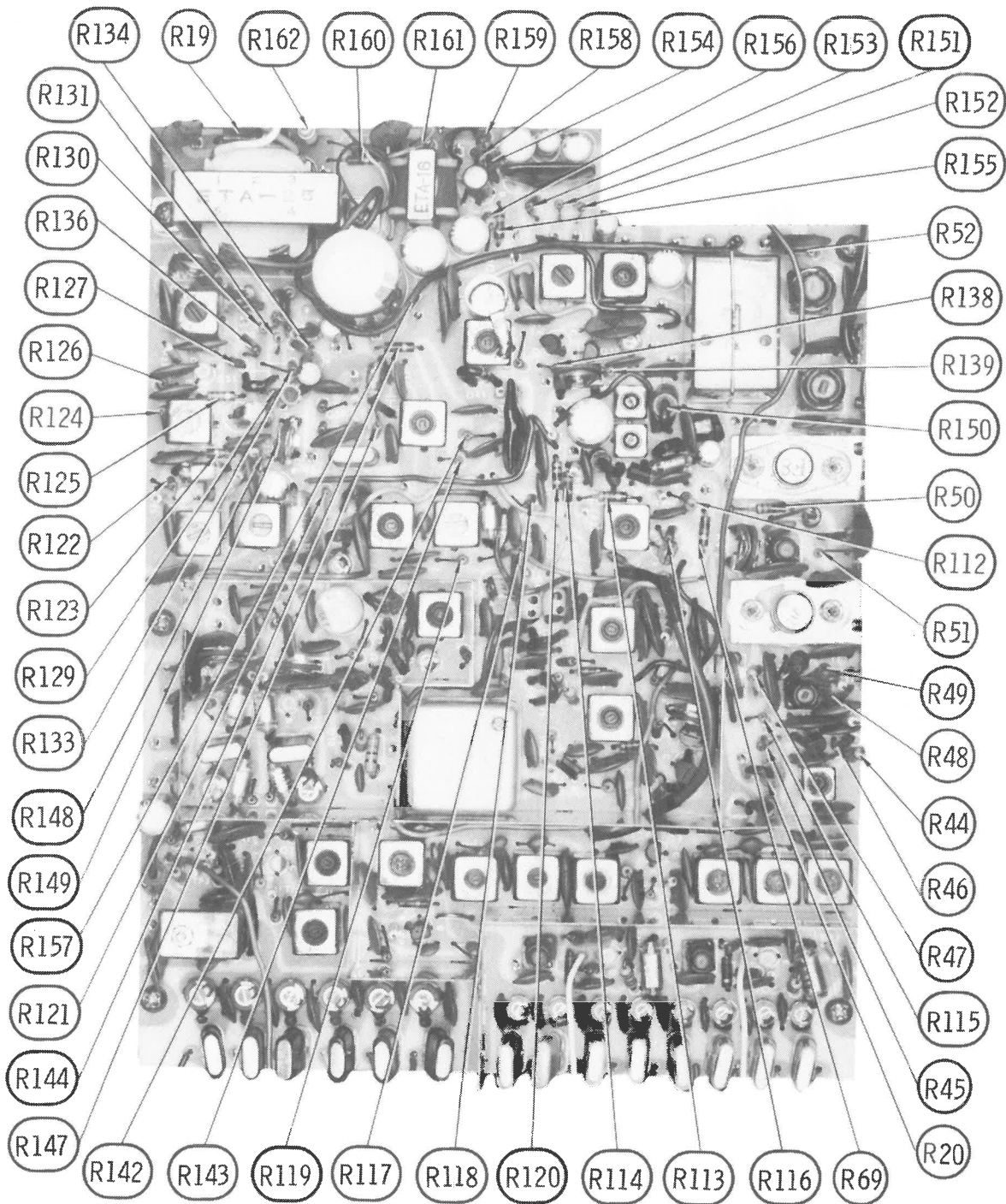


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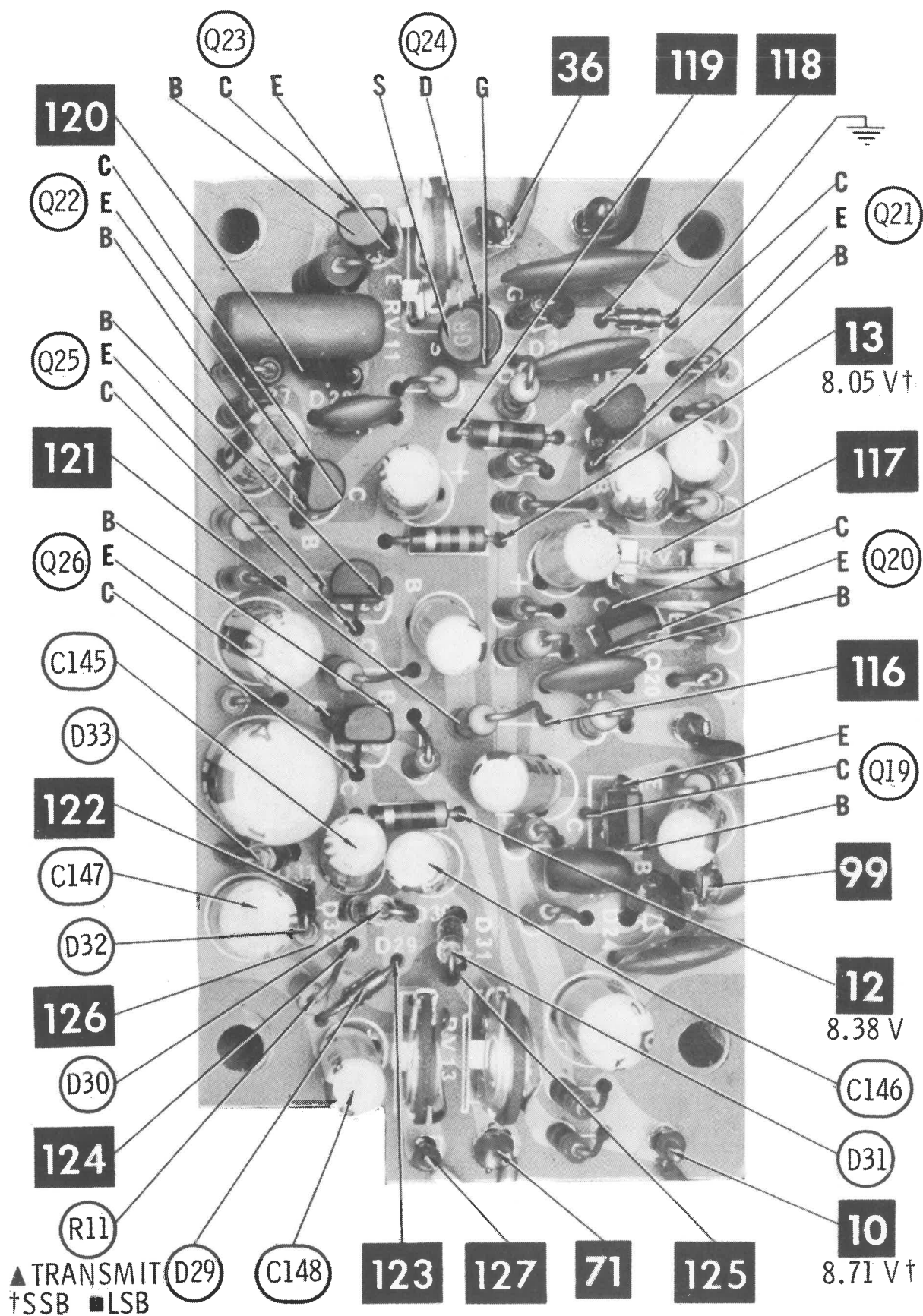




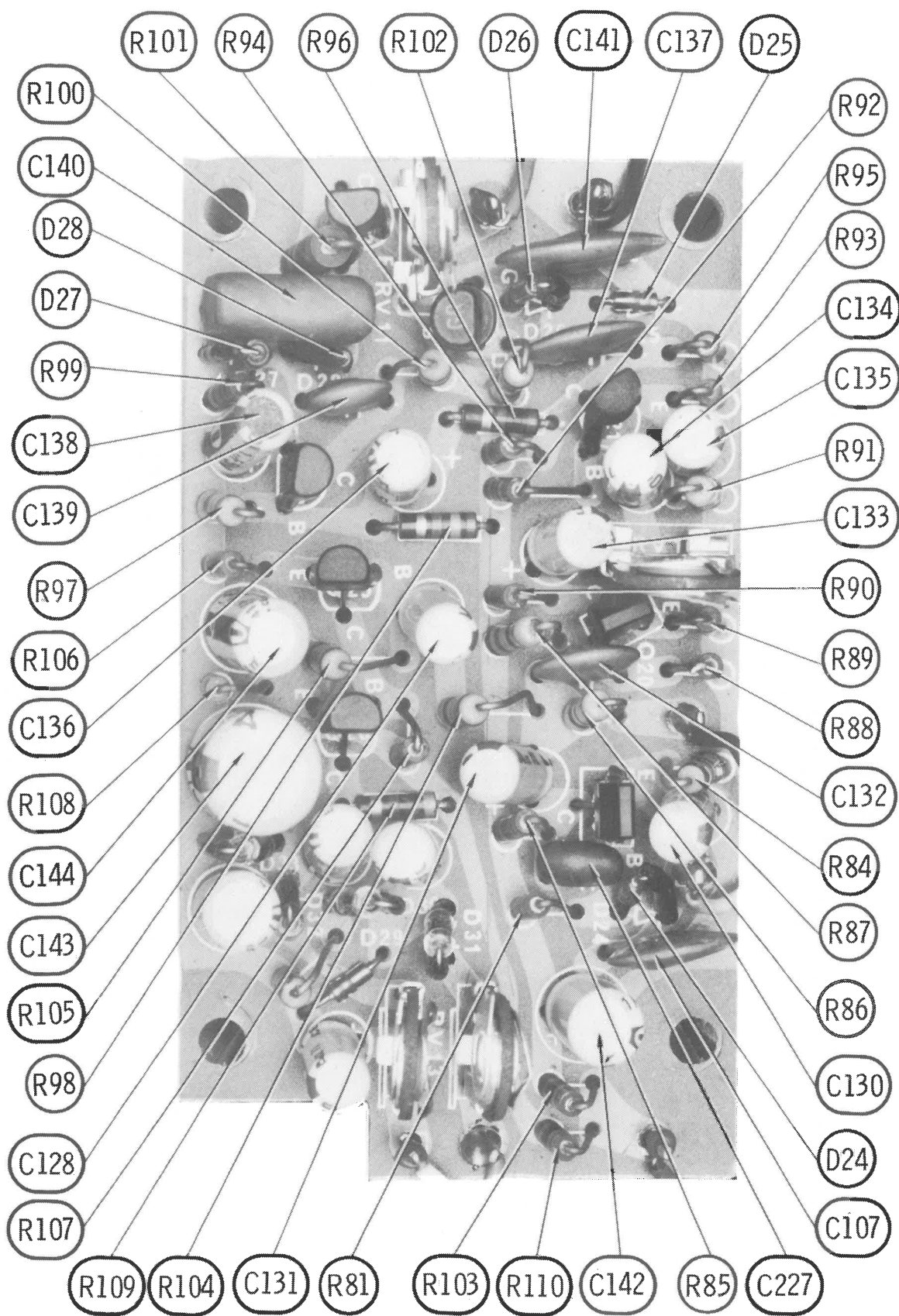


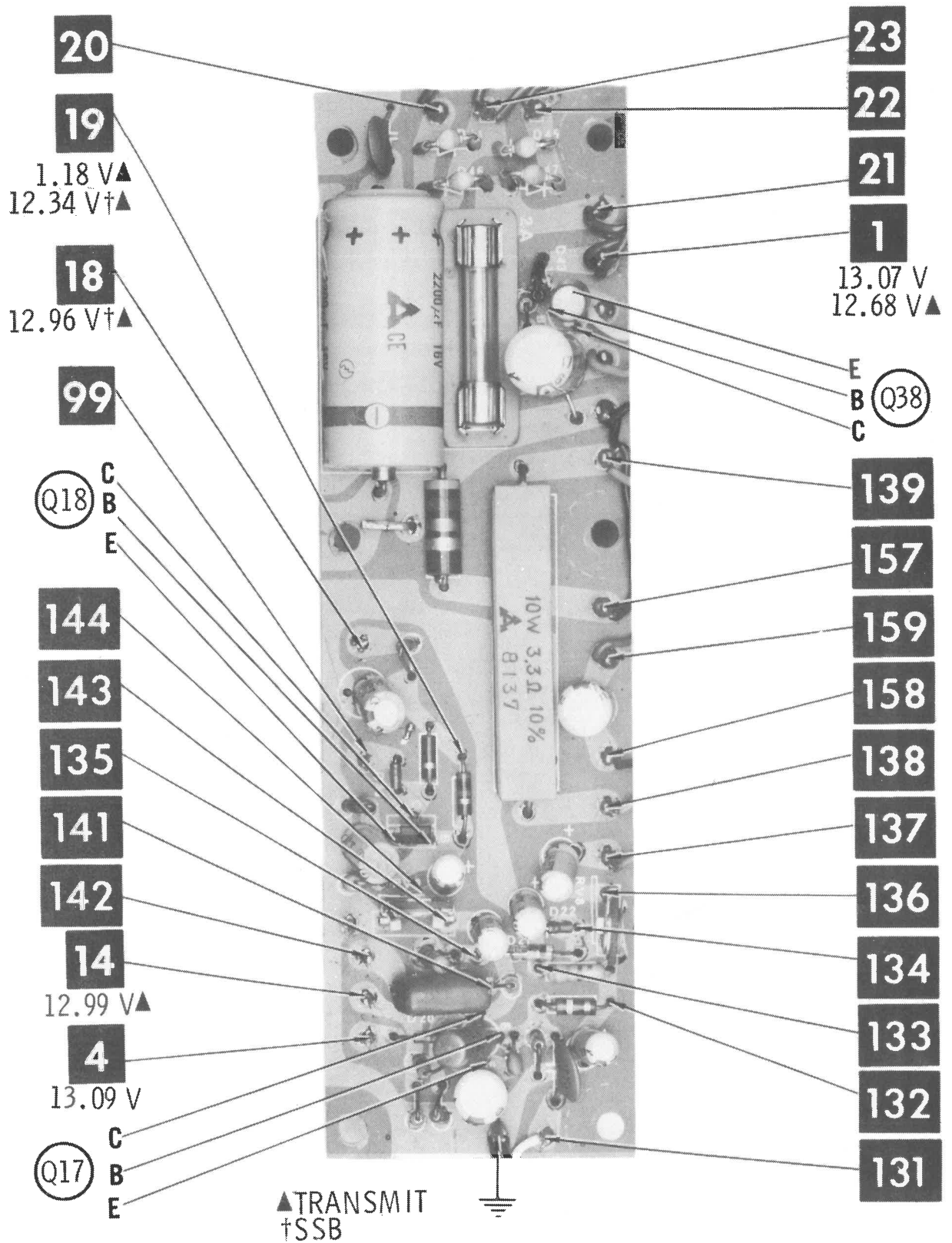


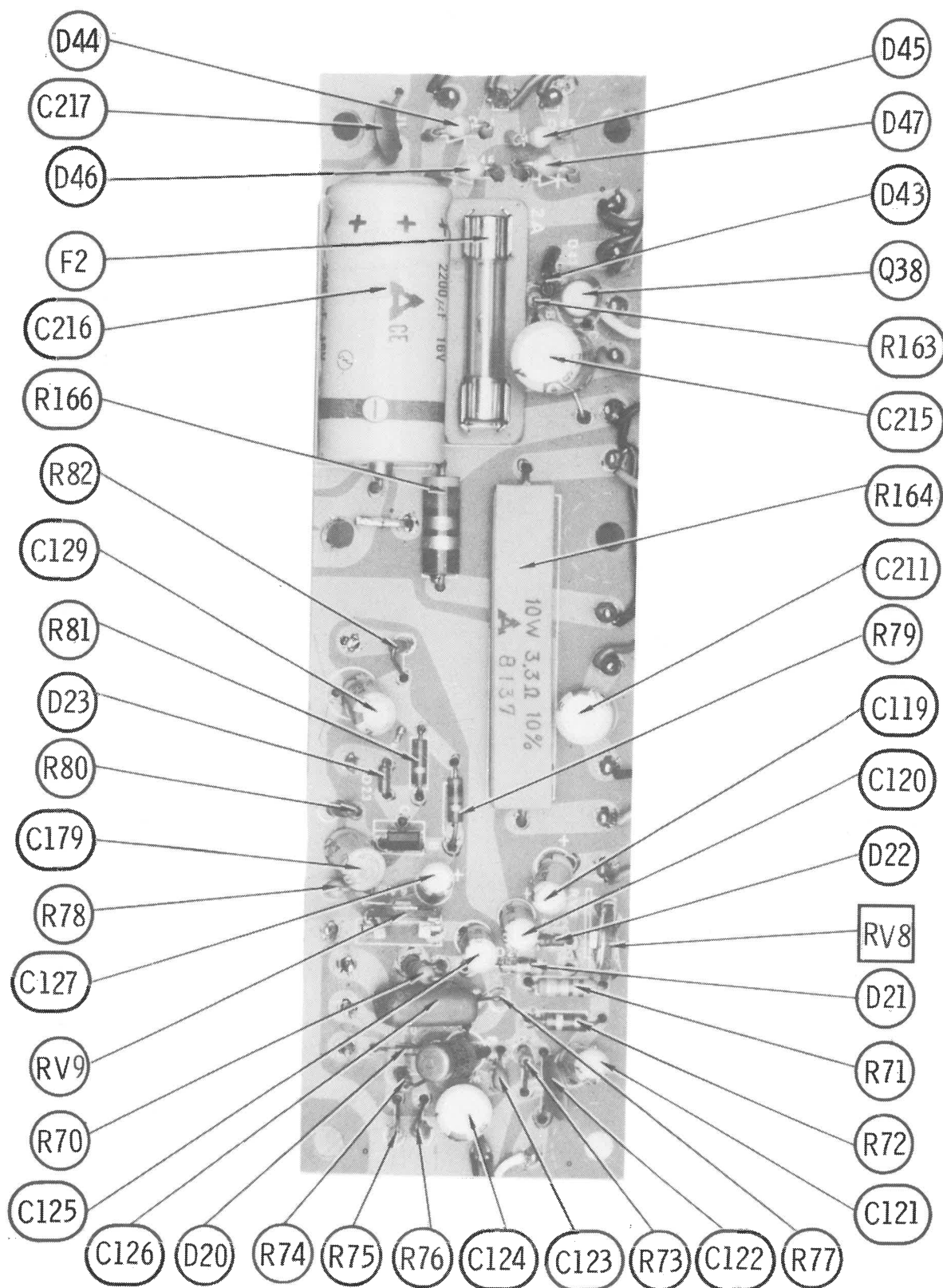
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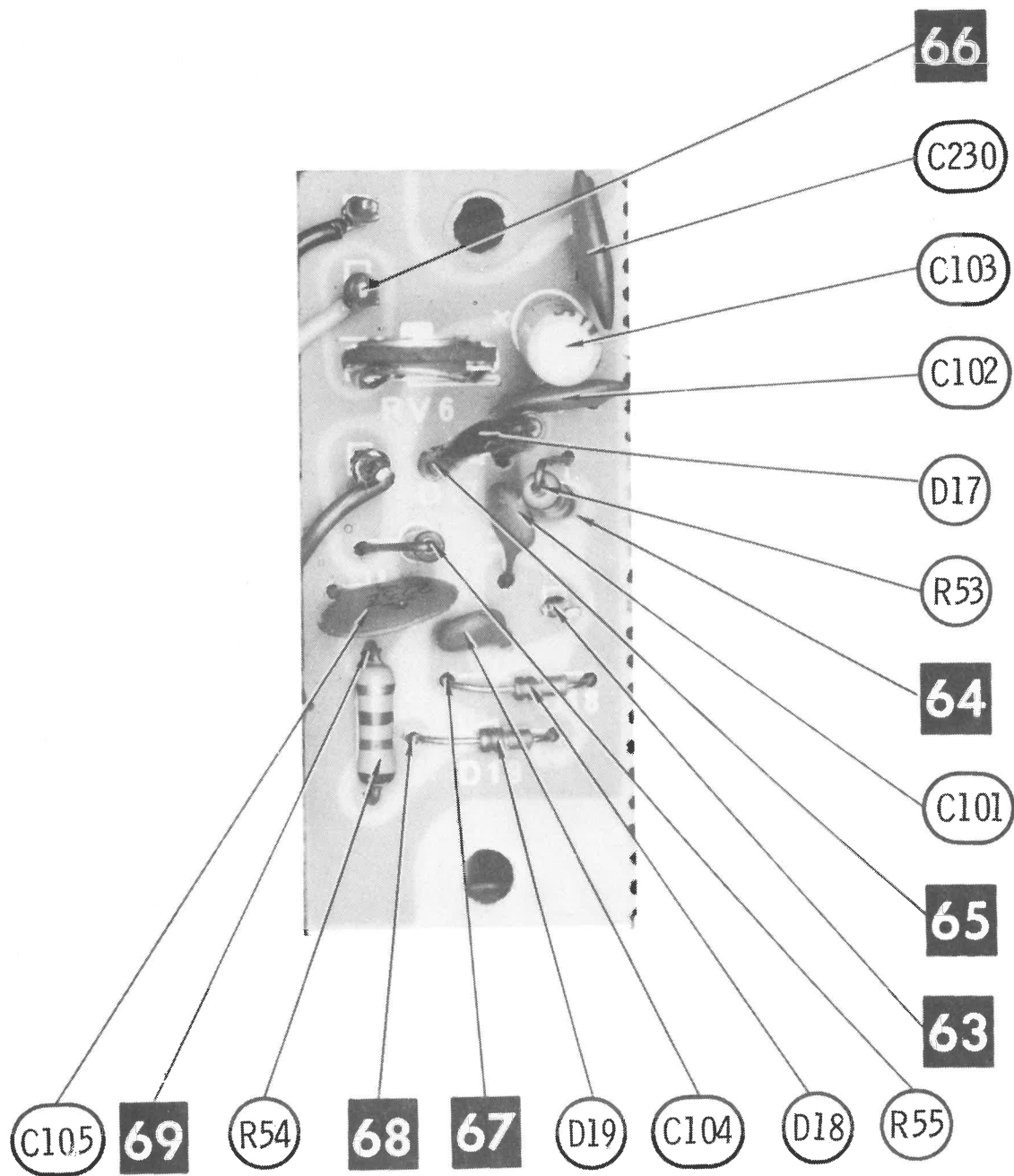


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PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS

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.
D1	AW-01-09/2150-17 (9 V Zener)	GEZD-9.1 (10)	Z1208 (10)	PTC505 (10)	HEPZ0412 (10)	SK3060 (10)	RT240 (10)	ECG 139 (10)
D2	AW-01-08/2064-17 (8 V Zener)	GE-X11 (10)	Z1208 (10)	ZB8.2 (10)	HEPZ0411 (10)	SK3059 (10)	RT239 (10)	ECG 5072 (10)
D3	1N60P/2151-17 (12)	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D4	1N60P/2151-17 (12)	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D5	1N60P/2151-17 (12)	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D6	1N60P/2151-17 (12)	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D7	M1-301/2065-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D8	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D9	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D10	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D11	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D12	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D13	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D14	M1-301/2065-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D15	1S983	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D16	M1-301/2065-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D17	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D18	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D19	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D20	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D21	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D22	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D23	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D24	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D25	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D26	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D27	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D28	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D29	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D30	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D31	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D32	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D33	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D34	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D35	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D36	1S953/2066-17	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D37	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D38	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D39	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D40	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D41	1N60/1000-17	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D42	AW-01-08/2064-17 (8 V Zener)	GE-X11 (10)	Z1208 (10)	ZB8.2 (10)	HEPZ0411 (10)	SK3059 (10)	RT239 (10)	ECG 5072 (10)
D43	RD-13AN/2021-17 (13 V Zener)		Z1212 (10)	PTC508 (10)	HEPZ0416 (10)	SK3093 (10)	RT234 (10)	ECG 5022 (10)
D44	V06BX4/2031-17	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0053	SK3016 or SK3031	RT214 or RT215	ECG 116 or ECG 117
D45	B06BX4/2031-17	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0053	SK3016 or SK3031	RT214 or RT215	ECG 116 or ECG 117
D46	B06BX4/2031-17	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0053	SK3016 or SK3031	RT214 or RT215	ECG 116 or ECG 117
D47	B06BX4/2031-17	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0053	SK3016 or SK3031	RT214 or RT215	ECG 116 or ECG 117
IC1	CA-3011/1002-25							
IC2	1009-25							
IC3	1007-35							
Q1	2SC183/1210-17	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q2	2SC184/1634-17	GE-20	TR-21	PTC115	HEP56	SK3018	RT107	ECG 108
Q3	2SC183/1210-17	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q4	2SC183/1210-17	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q5	2SC815/1879-17	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q6	2SC183/1210-17	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q7	2SC183/1210-17	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q8	2SC183/1210-17	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q9	2SC458(LG,B)/1374-17	GE-20	TR-24	PTC136	HEP738	SK3124	RT102	ECG 123A
Q10	2SC815/1879 17	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q11	2SC815/1879-17	GE-20	TR-24	PTC139	HEP724	SK3038	RT102	ECG 123A
Q12	2SC777/2062-17		IRTR-64		HEP75	SK3047		ECG 224
Q13	2SCF8/1068-17		IRTR-65		HEPS3001	SK3048		ECG 224
Q14	2SC458/1374-17	GE-20	IRTR-51	PTC136	HEP738	SK3124	RT102	ECG 123A
Q15	2SC900/2132-17	GE-62	TR-21	PTC139	HEP725	SK3124	RT102	ECG 199
Q16	2SC900/2132-17	GE-62	TR-21	PTC139	HEP725	SK3124	RT102	ECG 199
Q17	2SB77/1060-17	GE-52	IRTR-85	PTC109	HEP633	SK3004	RT121	ECG 102A
Q18	2SC458	GE-20	IRTR-51	PTC136	HEP738	SK3124	RT102	ECG 123A
Q19	2SC458	GE-20	IRTR-51	PTC136	HEP738	SK3124	RT102	ECG 123A
Q20	2SC458	GE-20	IRTR-51	PTC136	HEP738	SK3124	RT102	ECG 123A
Q21	2SC945	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 199
Q22	2SC945	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 199
Q23	2SC945	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 199
Q24	2SK19	GE-FET-2	FE-100	PTC152	HEPF0021	SK3116	RT175	ECG 132
Q25	2SC945	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
Q26	2SC945	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
Q27	2SC460G/1373-17	GE-20	IRTR-62	PTC101	HEP720	SK3039	RT107	ECG 108
Q28	2SC900/2132-17	GE-62	TR-21	PTC139	HEP725	SK3124	RT102	ECG 199
Q29	2SC184/1634-17	GE-20	TR-21	PTC115	HEP56	SK3018	RT107	ECG 108
Q30	2SC183	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q31	2SC183	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q32	2SC183	GE-20	IRTR-70	PTC132	HEP56	SK3018	RT113	ECG 108
Q33	2SB77	GE-52	IRTR-85	PTC109	HEP633	SK3004	RT121	ECG 102A
Q34	2SB337/1559-17	GE-16	TR-02	PTC105	HEP232	SK3009	RT127	ECG 121
Q35	2SB337/1559-17	GE-16	TR-02	PTC105	HEP232	SK3009	RT127	ECG 121
Q36	2SB77	GE-52	IRTR-85	PTC109	HEP633	SK3004	RT121	ECG 102A
Q37	2SB337	GE-16	TR-02	PTC105	HEP232	SK3009	RT127	ECG 121

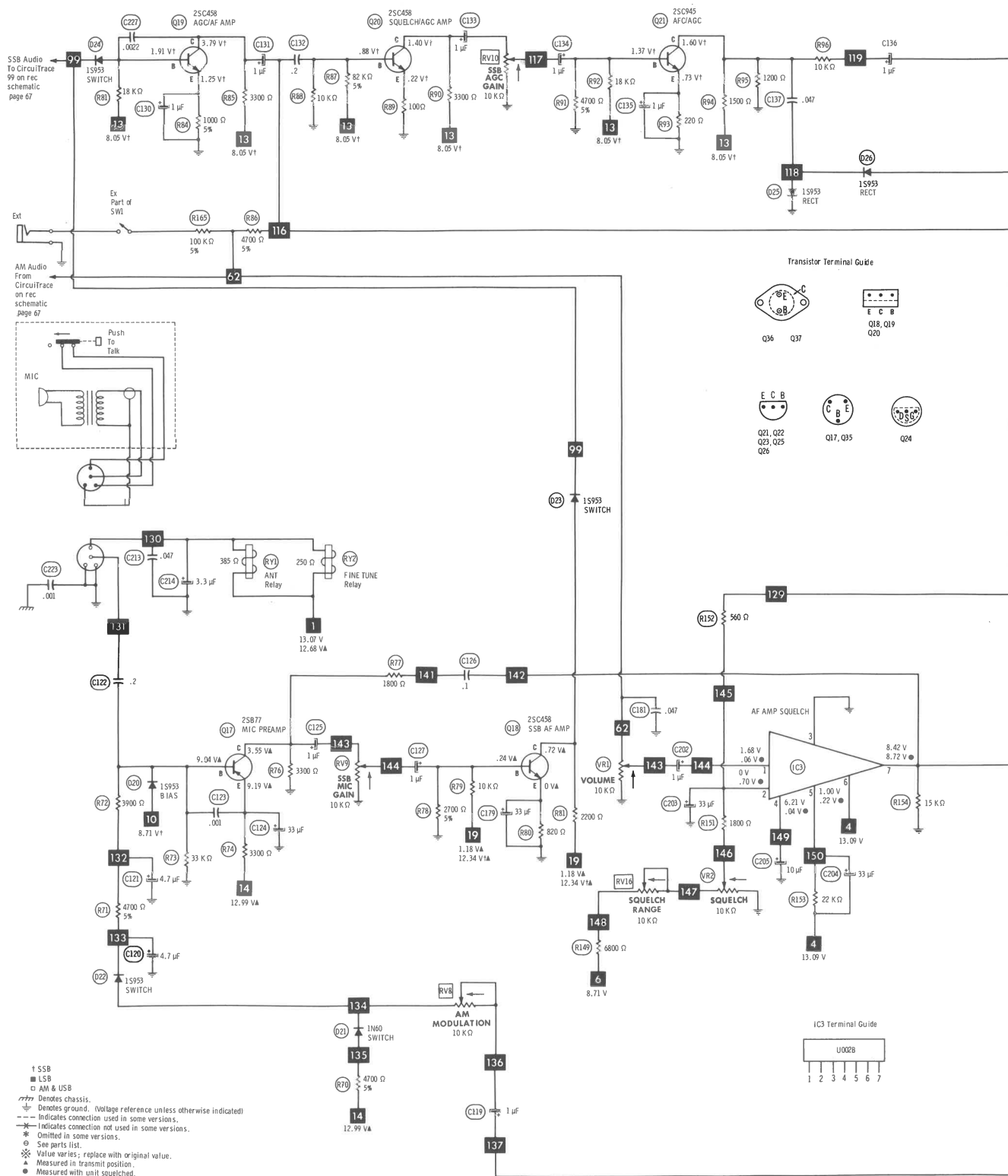
(10) Zener

(12) D3, D4, D5, D6 -- matched set.

(CONTINUED ON PAGE 72)

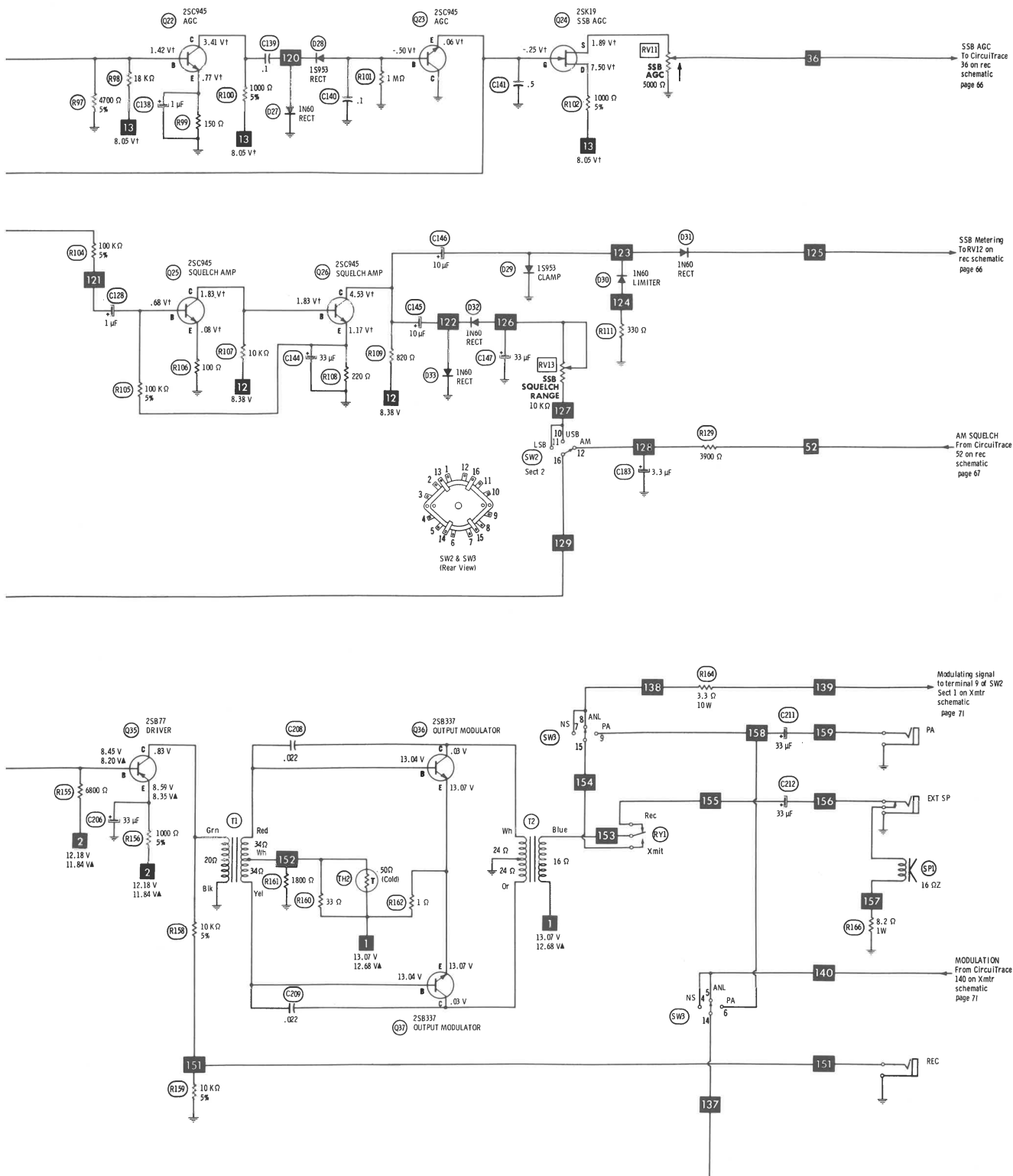
LAFAYETTE MODEL SSB-25A

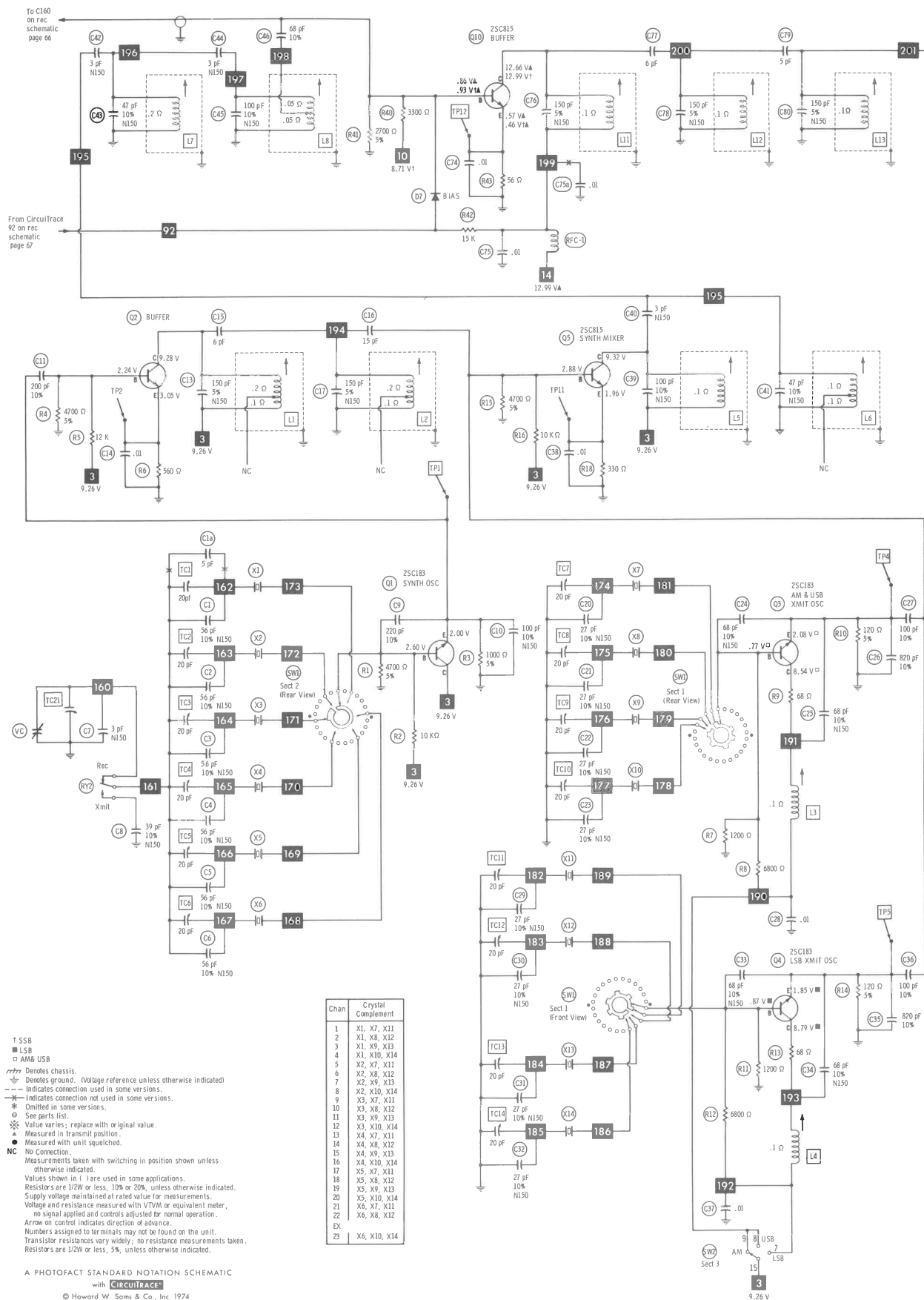




1 SSB
 2 LSB
 3 AM & USB
 4 Denotes chassis.
 5 Denotes ground. (Voltage reference unless otherwise indicated)
 6 Indicates connection used in some versions.
 7 Indicates connection not used in some versions.
 8 Omitted in some versions.
 9 See parts list.
 10 Value varies; replace with original value.
 11 Measured in transmit position.
 12 Measured with unit squelched.
 13 NC
 14 No Connection.
 15 Measurements taken with switching in position shown unless otherwise indicated.
 16 Values shown in () are used in some applications.
 17 Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated.
 18 Supply voltage maintained at rated value for measurements.
 19 Voltage and resistance measured with VTVM or equivalent meter, no signal applied and controls adjusted for normal operation.
 20 Arrow on control indicates direction of advance.
 21 Numbers assigned to terminals may not be found on the unit.
 22 Transistor resistances vary widely; no resistance measurements taken.
 23 Resistors are 1/2W or less, 5%, unless otherwise indicated.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 with **CircuitTrace**
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PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C19	33 16 V	3104-12	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C62	10 16 V	2986-12	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C103	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C119	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C120	4.7 25 V	3090-12	RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C121	4.7 25 V	3090-12	RME-A-G-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C124	33 16 V	3104-12	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C125	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C127	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C128	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C129	33 10 V	3089-12	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C130	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C131	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C133	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C134	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C135	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C136	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C138	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C142	47 10 V	3235-12	RME-D-D-050	EP15-50	PC50-10	MTV50CB15	EV-1226
C143	100 16 V	3078-12	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C144	33 10 V	3089-12	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C145	10 16 V	2986-12	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C146	10 16 V	2986-12	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C147	33 10 V	3089-12	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C148	10 16 V	2986-12	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C178	10 16 V	2986-12	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C179	33 10 V	3089-12	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C180	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C182	33 10 V	3089-12	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C183	3.3 25 V	1811-12				TDC335M035FL	SD35-3R39
C184	10 16 V	2986-12	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C200	100 16 V	3078-12	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C202	1 50 V	2300-12	RME-A-J-001	EP50-2	PC1-50	MTV1CB50	EV-1615
C203	33 10V	3089-12	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C204	33 16 V	3104-12	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C205	10 16 V	2986-12	RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C206	33 16 V	3104-12	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C207	100 16 V	3078-12	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C210	2200 16 V	3433-12	ME-G2000	EA15-2000	WBR2000-16	TC1520B	TVA-1175.3
C211	33 16 V	3104-12	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C212	33 16 V	3104-12	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C214	3.3 25 V	1811-12				TDC335M035FL	SD35-3R39
C215	470 6.3 V	3437-12	RME-K-D-500	EA15-500	PC500-16	MTV500DN15	EV-1550
C216	2200 16 V	3433-12	ME-G2000	EA15-2000	WBR2000-16	TC1520B	TVA-1175.3

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	56 N150 10%	3313-12	*			*	10TCP-Q56
C1A	5		*		NP05	*	10TCC-V50
C2	56 N150 10%	3313-12	*			*	10TCP-Q56
C3	56 N150 10%	3313-12	*			*	10TCP-Q56
C4	56 N150 10%	3313-12	*			*	10TCP-Q56
C5	56 N150 10%	3313-12	*			*	10TCP-Q56
C6	56 N150 10%	3313-12	*			*	10TCP-Q56
C7	3 N150	3040-12	*			*	10TCP-V30
C8	39 N150 10%		*			*	10TCP-Q39
C9	220 10%		DM-19-221J	CPR-220J	CD15FD221J03	SX322	424ME2200J501
C10	100 N150 10%	3197-12	*			*	10TCP-T10
C11	220 10%	3021-12	DTZ-220				10TCC-T22
C12	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C13	150 N150 5%	3071-12	*			*	10TCP-T15
C14	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C15	6	2361-12					
C16	15		CCT0-150	DTZ-15	NP06	CN0415	10TCC-Q15
C17	150 N150 5%	3071-12	*		NP015	*	10TCP-T15
C18	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C20	27 N150 10%	3256-12	*			*	10TCP-Q27
C21	27 N150 10%	3256-12	*			*	10TCP-Q27
C22	27 N150 10%	3256-12	*			*	10TCP-Q27
C23	27 N150 10%	3256-12	*			*	10TCP-Q27
C24	68 N150 10%	2995-12	*			*	10TCP-Q68
C25	68 N150 10%	2995-12	*			*	10TCP-Q68
C26	820 10%		DM-20-821J	CPR-820J	CD19FD821J03	SX382	424ME8200J501
C27	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C28	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C29	27 N150 10%	3256-12	*			*	10TCP-Q27
C30	27 N150 10%	3256-12	*			*	10TCP-Q27
C31	27 N150 10%	3256-12	*			*	10TCP-Q27
C32	27 N150 10%	3256-12	*			*	10TCP-Q27
C33	68 N150 10%	2995-12	*			*	10TCP-Q68
C34	68 N150 10%	2995-12	*			*	10TCP-Q68
C35	820 10%		DM-20-821J	CPR-820J	CD19FD821J03	SX382	424ME8200J501
C36	100 10%		CCD-101	DD-101	GP100	GP310	10TS-T10
C37	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C38	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C39	100 N150 10%	3197-12	*			*	10TCP-T10
C40	3 N150	3040-12	*			*	10TCP-V30
C41	47 N150 10%	3061-12	*			*	10TCP-Q47
C42	3 N150	3040-12	*			*	10TCP-V30
C43	47 N150 10%	3061-12	*			*	10TCP-Q47
C44	3 N150	3040-12	*			*	10TCP-V30
C45	100 N150 10%	3197-12	*			*	10TCP-T10
C46	68 10%			DTZ-68		CN0468	10TCC-Q68
C47	.022 25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C48	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C49	180 10%		DM-19-181J	CPR-180J	CD15FD181J03	SX318	424ME1800J501
C50	510 10%		DM-19-511J	CPR-510J	CD15FD511J03	SX351	424ME5100J501
C51	150 N150 5%	3071-12	*			*	10TCP-T15
C52	220 N150 10%		*			*	10TCP-T22

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/ELMENCOPART No.	CENTRALABPART No.	CORNELL-DUBILIERPART No.	MALLORYPART No.	SPRAGUEPART No.
C53	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C54	180	10%		DM-19-181J	CPR-180J	CD15FD181J03	SX318	424MC1600J501
C55	510	10%		DM-19-11J	CPR-510J	CD15FD511J03	SX351	424ME5100J501
C56	150	N150	3071-12	*			*	10TCP-T15
C57	220	N150		*			*	10TCP-T22
C58	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C59	6		2361-12			NP06		
C60	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C61	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C63	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C64	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C65	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C66	10			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C67	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C68	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C69	100	N150	3197-12	*			*	10TCP-T10
C70	47	N150	3061-12	*			*	10TCP-Q47
C71	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C72	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C73	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C74	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C75	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C75A	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C76	150	N150	3071-12	*			*	10TCP-T15
C77	6		2361-12			NP06		
C78	150	N150	3071-12	*			*	10TCP-T15
C79	5					NP05		10TCC-V50
C80	150	N150	3071-12	*			*	10TCP-T15
C81	8		3361-12			NP08		
C82	56	N150	3313-12	*			*	10TCP-Q56
C83	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C84	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C85	100	N150	3197-12	*			*	10TCP-T10
C87	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C88	330			CCD-331	DD-331	GP330	GP333	10TS-T33
C89	100	N150	3197-12	*			*	10TCP-T10
C90	.047			CCD-503	CK-503	MGP05	TA150	TG-S50
C91	.047			CCD-503	CK-503	MGP05	TA150	TG-S50
C92	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C93	68		10%	DTZ-68			CN0468	10TCC-Q68
C94	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C96	.047			CCD-503	CK-503	MGP05	TA150	TG-S50
C97	270		10%	CCD-270	DTZ-270	GP270	GP327	10TS-T27
C98	22			CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C99	100		10%	CCD-101	DD-101	GP100	GP310	10TS-T10
C100	15			CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C101	4					NP03P9		10TCC-V39
C102	.022			CCD-203	DD-203		GP120	10TS-S20
C104	2			DTZ-2R2		NP02P2	CN0522	10TCC-V22
C105	.022			CCD-203	DD-203		GP120	10TS-S20
C106	.047			CCD-503	CK-503	MGP05	TA150	TG-S50
C107	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C108	.2	12 V	3333-12					
C109	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C110	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C111	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C112	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C113	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C114	150	N150	10%	*			*	10TCP-T15
C115	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C116	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C117	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C118	.047			CCD-503	CK-503	MGP05	TA150	TG-S50
C122	.2	12 V	3333-12					
C123	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C126	.1	50 V		1DP-2-104		DPMS2P1	EWFA010	225P10491WD3
C132	.2	12 V	3333-12					
C137	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C139	.1	12 V			CK-104		TA010	TG-P10
C140	.1	50 V		1DP-2-104		DPMS2P1	EWFA010	225P10491WD3
C141	.5	12 V	3438-12					
C149	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C150	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C151	100			CCD-101	DD-101	GP100	GP310	10TS-T10
C152	2			DTZ-2R2		NP02P2	CN0522	10TCC-V22
C153	220			DM-19-221J	CPR-220J	CD15FD221J03	SX322	424ME2200J501
C154	5					NP05		10TCC-V50
C155	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C156	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C157	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C158	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C159	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C160	27			CCTO-270	DTZ-270	NP027	CN0427	10TCC-Q27
C161	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C162	220	5%		DM-19-221J	CPR-220J	CD15FD221J03	SX322	424ME2200J501
C163	5					NP05		10TCC-V50
C164	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C165	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C166	15			CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C167	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C168	6		2361-12			NP06		
C169	510	10%	3195-12	DM-19-511J	CPR-510J	CD15FD511J03	SX351	424ME5100J501
C170	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C171	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C172	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C173	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C174	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C175	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C176	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C177	.022	25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C181	.047	25 V		CCD-503	CK-503	MGP05	TA150	TG-S50

LAFAYETTE MODEL SSB-25A

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/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C185	100 N150 10%	3197-12	*			*	10TCP-T10
C186	.1			CK-104		TA010	TG-P10
C187	.1 25 V			CK-104		TA010	TG-P10
C188	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C189	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C190	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C191	.047 25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C192	180	10%	CCD-181	DD-181	GP180	GP318	10TS-T18
C193	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C194	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C195	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C196	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C197	270	10%	CCD-270	DD-271	GP270	GP327	10TS-T27
C198	220	10%	DM-19-221J	CPR-220J	CD15FD221J03	SK322	424ME2200J501
C199	39	10%				CN0439	10TCC-Q39
C201	.047 25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C208	.022 25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C209	.022 25 V		CCD-203	CK-203	MGP02	TA120	TG-S20
C213	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C217	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C218	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C219	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C220	.047 25 V		CCD-503	CK-503	MGP05	TA150	TG-S50
C221	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C222	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C223	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C224	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C225	470		CCD-471	DD-471	GP470	GP347	10TS-T47
C226	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C227	.0022		16DP-2-222	CPR-2200J	DPMS20D22	PVC16222	20PS-D22
C228	.001	10%	DM-19-102J	CPR-1000J	CD19F102J500	SK210	424ME1001J501
C229	.017		CCD-503	CK-503	MGP05	TA150	TG-S50
TC1	20	3189-12					
TC2	20	3189-12					
TC3	20	3189-12					
TC4	20	3189-12					
TC5	20	3189-12					
TC6	20	3189-12					
TC7	20	3189-12					
TC8	20	3189-12					
TC9	20	3189-12					
TC10	20	3189-12					
TC11	20	3189-12					
TC12	20	3189-12					
TC13	20	3189-12					
TC14	20	3189-12					
TC15	50	3190-12					
TC16	50	3190-12					
TC17	20	3189-12					
TC18	250	2930-12					
TC19	20	3189-12					
TC20	20	3189-12					
TC21							
VC		3432-12					

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
RV1	USB	1000	2564-13	TSV-1K (1) or T-1000 (1)	C-102 (1)	X201R102B (1)	MTC13L1 (1)
RV2	LSB	1000	2564-13	TSV-1K (1) or T-1000 (1)	C-102 (1)	X201R122B (1)	MTC13L1 (1)
RV3	Balance	300	2570-13	T-300 (2) or TSV-500 (2)	C-501 (2)	X201R351B (2)	MTC32L1 (2)
RV4	Bias	1000	2564-13	TSV-1K (1) or T-1000 (1)	C-102 (1)	X201R102B (1)	MTC13L1 (1)
RV5	Bias	500	2294-13	TSV-500 (1) or T-500 (1)	C-501 (1)	X201R501B (1)	MTC52L1 (1)
RV6	RF Meter	10 K		TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1 (1)
RV7	ALC	2000	2507-13	TSV-2.5K (1) or T-2500 (1)	C-252 (1)	X201R252B (1)	MTC23L1 (1)
RV8	Modulation	10 K		TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1
RV9	SSB Mic Gain	10 K	1187-11	TSV-10K or T-10K	C-103	X201R103B	MTC14L1
RV10	SSB AGC Gain	10 K		TSV-10K or T-10K	C-103	X201R103B	MTC14L1
RV11	SSB AGC	5 K	2339-13	TSV-5K or T-5000	C-520	X201R502B	MTC53L1
RV12	SSB Squelch Range	1000		TSV-1K (1) or T-1000 (1)	C-102 (1)	X201R102B (1)	MTC13L1 (1)
RV13	SSB Meter	10 K		TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103B (1)	MTC14L1 (1)
RV14	"S" Meter	5 K	2492-13	TSV-5K (1) or T-5000 (1)	C-502 (1)	X201R502B (1)	MTC53L1 (1)
RV15	AM Squelch Adjust	100 K	2297-13	TSV-100K (1) or T-100 K (1)	C-104 (1)	X201R104B (1)	MTC15L1 (1)
RV16	Squelch Range	10 K	2474-13	TSV-10K (1) or T-10K (1)	C-103 (1)	X201R103 (1)	MTC14L1 (1)
VR1	Volume/Switch	10 K	1580-11				
VR2	Squelch	10 K	1648-11				
VR3	RF Gain	50 K	1581-11				

(1) Cut off one of the end terminals and bend to fit PC board.
(2) Modify terminals 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		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
PTH	140 K (Cold)		2305-13	R166	8.2 1W		2572-13
R162	1 1/2W		2473-13	TH1	93 (Cold)		2038-17 (19D-27)
R164	3.3 10W		2571-13	TH2	42 (Cold)		1638-17 (14D47)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				REMARKS
		PART No.	MEISSNER PART No.	MILLER PART No.		
CH3	Peaking (100 uH)	2490-23 (ELR-45)	19-2024	74F104AI		() Stamped on unit.
CH4	Peaking (100 uH)	2490-23 (ELR-45)	19-2024	74F104AI		(1) Includes 455 kHz Mechanical Filter (MF)
L1	Synth. Buffer (Pri.)	2491-23 (ETR-136)				
L2	Synth. Buffer (Sec.)	2491-23 (ETR-136)				
L3	AM/USB Oscillator	2219-23 (ETR-20)				
L4	LSB Oscillator	2219-23 (ETR-20)				
L5	Synth. Mixer	2220-23 (ETR-24)				
L6	Synth. Mixer	2221-23 (ETR-25)				
L7	Synth. Mixer	2221-23 (ETR-25)				
L8	Synth. Mixer	2222-23 (ETR-26)				
L9	Balanced Mixer	2492-23 (ETR-137)				
L10	SSB Amp/IF	2493-23 (ETI-65)				
L11	Synth. Buffer	2220-23 (ETR-24)				
L12	Synth. Buffer	2220-23 (ETR-24)				
L13	Synth. Buffer	2220-23 (ETR-24)				
L14	Synth. Buffer	2494-23 (ETR-101)				
L15	Xmtr. Amp	2028-24 (ETR-22)				
L16	Xmtr. Driver	2028-24 (ETR-22)				
L17	RF Filter	2029-24 (ETR-93)				
L18	RF Filter	2030-24 (ETR-94)				
L19	RF Filter	2489-23 (ETR-135)				
L20	TVI Trap	2216-23 (ETR-18)				
L21	SSB IF	2493-23 (ETI-65)				
L22	Ant Matching (Pri.)	2032-24 (ETR-12)				
L23	Ant Matching (Sec.)	2032-24 (ETR-12)				
L24	RF Amp	2033-24 (ETR-27)				
L25	1st Mixer (Pri.)	2085-24 (ETI-66)				
L26	1st Mixer (Sec.)	2017-24 (ETI-32)				
L27	Input IF	2035-24 (ETI-33)	2066	16-9026		
L28	Interstage IF	2008-24 (ETI-41)	2067	16-9027		
L29	Output IF	1949-24 (ETI-23)	2068	16-9028		
L30	Ant Matching	2039-24 (ETR-42)				
L31	Noise Amp Input	2040-24 (ETR-43)				
L32	Noise Amp	2042-24 (ETR-44)				
L33	Rec. Oscillator	2041-24 (ETR-28)				
MF	2nd Mixer (1)	2043-24 (EFC-3)				
RFC1	RF Choke (2 uH)	2240-23 (ELR-4)		74F226AP		
RFC2	RF Choke (2 uH)	2240-23 (ELR-4)		74F226AP		
RFC3	RF Choke (2 uH)	2240-23 (ELR-4)		74F226AP		
RFC4	RF Choke (2.2 uH)			74F226AP		

LAFAYETTE MODEL SSB-25A

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.	
CH1	1.2 A	.67	3.5 mH	2488-23			

CHOKE (Audio Output)

ITEM No.	INDUCTANCE	REPLACEMENT DATA				NOTES
		MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
CH2	15 mH	1637-15 (ELA-11)				() Stamped on unit.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
PT	120 VAC @ .25A	12.4 VAC @ 1.2A	1705-15				

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	20	68 CT		1636-15 (ETA-16)				() Stamped on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	48 CT	16	1706-15 (ETA-25)				() Stamped on unit.

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.	
SP1	3" PM 16 ohms	1203-36	30A05RZ16	

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	.5 A	3791-20	1417-19	AGC 1/2	HKP	312.500	342058A	FG1/2-2
F2	2 A	3755-20	1859-19	AGC 2		312002		FG2-2
F3	1.5 A			AGC 1 1/2	HDJ	31201.5	150145	FG1 1/2-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
C65	Component Combination	3435-12	
C67	Component Combination	3435-12	
C225	Component Combination	3188-12	
M1	Meter	1153-27	Signal
M2	Meter	1154-27	RF
MF	Mechanical Filter	2043-24	455 kHz
	Printed Circuit Board	1546-16	(EP0534) Main Board
	Printed Circuit Board	1547-16	(EP0538) Power Supply, Mic Preamp and SSB AF Amp Board.
	Printed Circuit Board	1548-16	(EP0539) AGC, Squelch Board
	Printed Circuit Board	1549-16	(EP0540) ALC
RY1	Relay	1052-37	Antenna
RY2	Relay	1064-37	Fine Tune
SW1	Switch	1730-14	Channel Selector
SW2	Switch	1731-14	AM-USB-LSB
SW3	Switch	1732-14	NS-ANL-PA
SW4	Switch	1733-14	Alarm
X1	Crystal	1264-35	7.7766 MHz
X2	Crystal	1265-35	7.7933 MHz
X3	Crystal	1266-35	7.8100 MHz
X4	Crystal	1267-35	7.8266 MHz
X5	Crystal	1268-35	7.8433 MHz
X6	Crystal	1269-35	7.8600 MHz
X7	Crystal	1270-35	14.907 MHz
X8	Crystal	1271-35	14.917 MHz
X9	Crystal	1272-35	14.927 MHz
X10	Crystal	1273-35	14.947 MHz
X11	Crystal	1274-35	14.904 MHz
X12	Crystal	1275-35	14.914 MHz
X13	Crystal	1276-35	14.924 MHz
X14	Crystal	1277-35	14.944 MHz
X15	Crystal	1096-35	11.275 MHz
X16	Crystal	1278-35	11.272 MHz
X17	Crystal	1097-35	11.730 MHz
XF	Crystal Filter	1263-35	7.80 MHz

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

ITEM	PART No.	ITEM	PART No.
Bracket, Mounting	6620-10	Escutcheon, Front Trim	7512-10
Cabinet, Top	7513-10	Front Cover Glass	4321-20
Cabinet, Bottom	7514-10	Knob, Selector	1735-18
Chassis, Front	7496-10	Knob, Fine Tune	1736-18
Chassis, Rear	7497-10	Knob, Control	1737-18
Chassis, Right	7498-10	Panel, Plastic	4315-20
Chassis, Left	7499-10	Indicator, Channel	6624-10

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	1010-34	
Mic Clip	2260-10	
Mic Guide	4221-10	
AC Cord	1221-38	
DC Cord	1222-38	

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.)