

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.
(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.

TRAM MODEL XL5



MODEL XL5

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

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6CZ417

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:	GC Electronics:
L108, L110, T302.....	9300
ALL other tunable coils and transformers.....	9440
ALL Trimmers.....	5000

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Input of frequency counter to TP2, common to ground.	Any	C415	7.8025MHz +10Hz	Set mode switch to LSB, receive. Adjust to frequency.
Oscilloscope (Response to 30MHz Input of scope to G1 of Q7, common to ground.		T402, T403		Set mode switch to USB, receive. Adjust for maximum amplitude.
Input of frequency counter thru 20pF in parallel with 20uH coil to G1 of Q7, common to ground.			15.605MHz	The frequency must be 15.605MHz. If not, repeat first step.
Input of scope to TP1, common to ground.	13	T206, T205, T204		Set mode switch to LSB, receive. Set clarifier to center detent. Preset C241 thru C250 to mid-positions. Adjust T206, T205, T204 for maximum amplitude.
Input of frequency counter to TP1, common to ground.	1 2 3 4 8 12 16 20 23	C247 C248 C249 C250 C242 C243 C244 C245 C246	19.1625MHz 19.1725MHz 19.1825MHz 19.2025MHz 19.2525MHz 19.3025MHz 19.3525MHz 19.4025MHz 19.4525MHz	Set mode switch to LSB, receive. Set clarifier to center detent. All frequencies should be within +50Hz. If this tolerance cannot be obtained C241 may be adjusted to bring frequencies into tolerance.
Input of scope to TP1, common to ground.	13	T201, T202, T203, T402, T403	34.9175MHz	Set mode switch to USB. Adjust for maximum amplitude.
Input of frequency counter to TP1, common to ground.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		34.7675MHz 34.7775MHz 34.7875MHz 34.8075MHz 34.8175MHz 34.8275MHz 34.8375MHz 34.8575MHz 34.8675MHz 34.8775MHz 34.8875MHz 34.9075MHz 34.9175MHz 34.9275MHz 34.9375MHz	Set mode switch to USB. Check all channels for these frequencies. If not correct check all preceding steps.

SYNTHESIZER(cont)

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Input of frequency counter to TP1, common to ground.	16		34.9575MHz	
	17		34.9675MHz	
	18		34.9775MHz	
	19		34.9875MHz	
	20		35.0075MHz	
	21		35.0175MHz	
	22		35.0275MHz	
	23		35.0575MHz	
	1		19.165MHz	Set mode switch to AM. Check all channels for these frequencies. If not correct check all preceding steps.
	2		19.175MHz	
	3		19.185MHz	
	4		19.205MHz	
	5		19.215MHz	
	6		19.225MHz	
	7		19.235MHz	
	8		19.255MHz	
	9		19.265MHz	
	10		19.275MHz	
	11		19.285MHz	
	12		19.305MHz	
	13		19.315MHz	
	14		19.325MHz	
	15		19.335MHz	
	16		19.355MHz	
	17		19.365MHz	
	18		19.375MHz	
	19		19.385MHz	
	20		19.405MHz	
	21		19.415MHz	
	22		19.425MHz	
	23		19.455MHz	
Input of frequency counter to antenna jack, common to ground.	13	R228	27.115MHz	Set mode switch to AM Key transmitter, no modulation. Adjust for frequency.
Input of frequency counter to TP1, common to ground.	13		19.3125MHz +50Hz	Set mode switch to LSB. Set clarifier to detent. This frequency should be obtained.

TRAM MODEL XLS

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 120-volt AC input to power supply.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to gate 1 of Q13, low side to ground.	7.80MHz, 1000Hz @ 30% modulation.	Any	T303,T304, T305,T306, T307	Set mode switch to AM. Set generator output to maintain mid scale reading on S meter. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1uV	13	T301,T302	Set mode switch to AM. Adjust for maximum.

RECEIVER (cont)

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to antenna jack, low side to ground.	25.000MHz, 1000Hz @ 30% modulation	Any	T309	Output of audio VTVM (30mv scale) to Q16 gate, common to ground. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation	14	T308	Input of audio VTVM (30vm scale) to Q16 gate, common to ground. Adjust for MINIMUM.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
These adjustments made with 120-volt AC input to power supply.
Adjust volume control to obtain a suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
AGC High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 0uV.	13	R361	Set RF gain maximum clockwise. Input of DC VTVM to Q12 base, common to ground. Adjust for 1.6V DC.
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz 1000Hz @ 30% modulation, output 1000uV.	13	R520	Set squelch control fully clockwise. Adjust so that squelch just breaks.
S METER High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 100uV.	13	R363 (AM) R364 (SSB)	Mode switch to AM. Adjust for S9. Mode switch to LSB. Adjust for S9.

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 120-volt AC input to power supply.

AM

INDICATOR	ADJUST	REMARKS
OUTPUT POWER Input of RF wattmeter to antenna jack, common to ground.	L106	Mode switch to AM. Key transmitter. Adjust for 4 watts output.
TVI TRAP TV (Ch. 2)	C141	Mode switch to AM. Key transmitter. Adjust for MINIMUM interference on TV.

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 120-volt AC input to power supply.

SSB

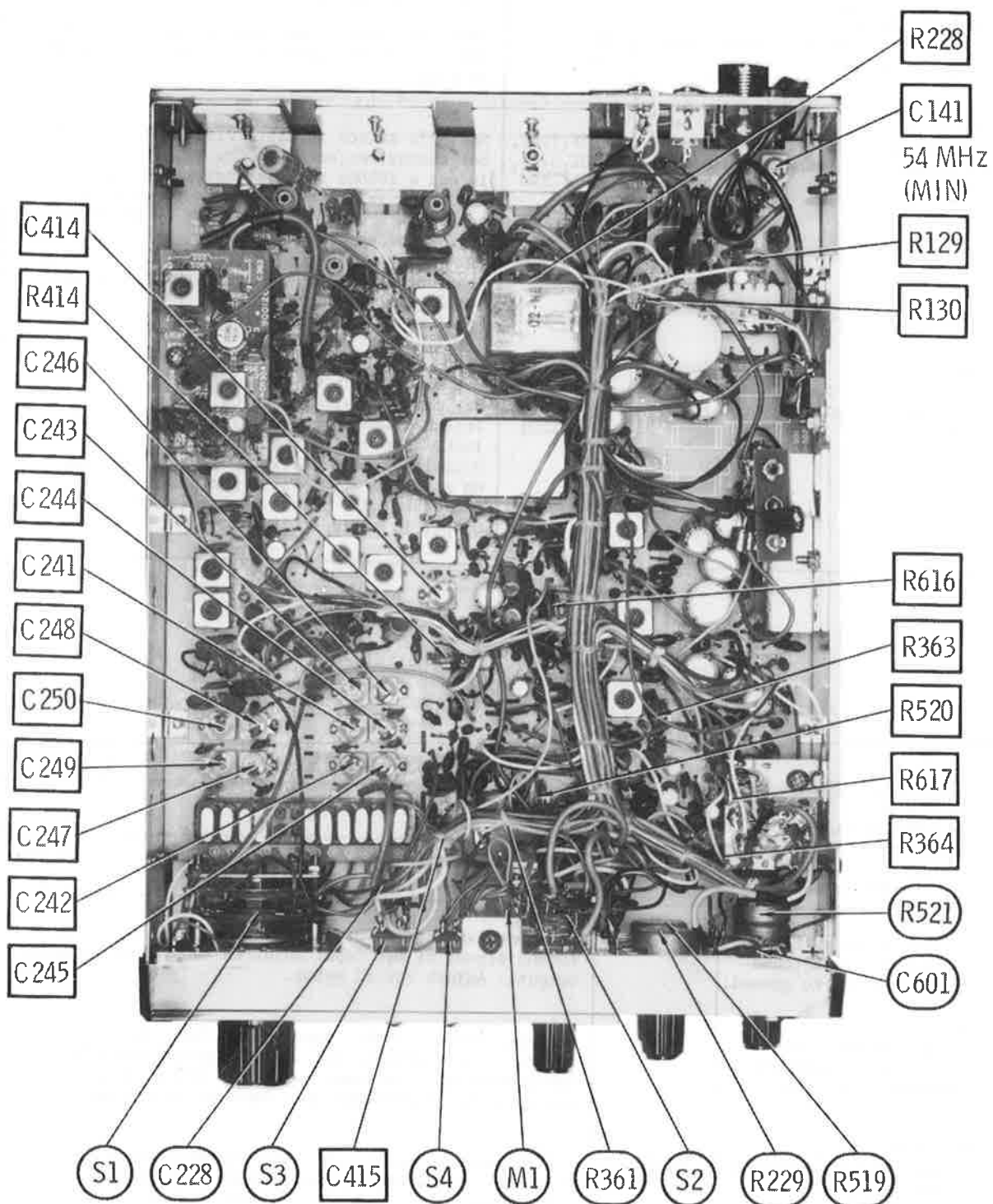
INDICATOR	ADJUST	REMARKS
CARRIER BALANCE Input of scope to antenna jack, common to ground.	C414, R414	Short mic input. Set mode switch to LSB or USB. Key transmitter and adjust for MINIMUM on scope.
LSB Input of wattmeter and frequency counter to antenna jack, common to ground.	T103,T102, T101,L110, L108,L106	Set mode switch to LSB. Disable R130 + R616. Set channel selector to Ch. 13. Inject a 1000Hz audio signal at mic jack. Key transmitter, adjust audio oscillator to maintain a 6-7 watt reading on wattmeter. Adjust for maximum.
	L108, L106	Readjust audio oscillator output for 15 watt reading on wattmeter. Readjust for maximum watts.
USB Input of wattmeter and frequency counter to antenna jack, common to ground.	T401,T403, T402,T203, T202,T201	Set mode switch to USB. Set channel selector to Ch. 13. Inject a 1000Hz audio signal at mic input jack. Key transmitter, adjust audio oscillator to maintain a 6-7 watt reading on wattmeter. Adjust for maximum. Increase audio output to confirm that output is at least 15 watts.

TRAM MODEL XLS

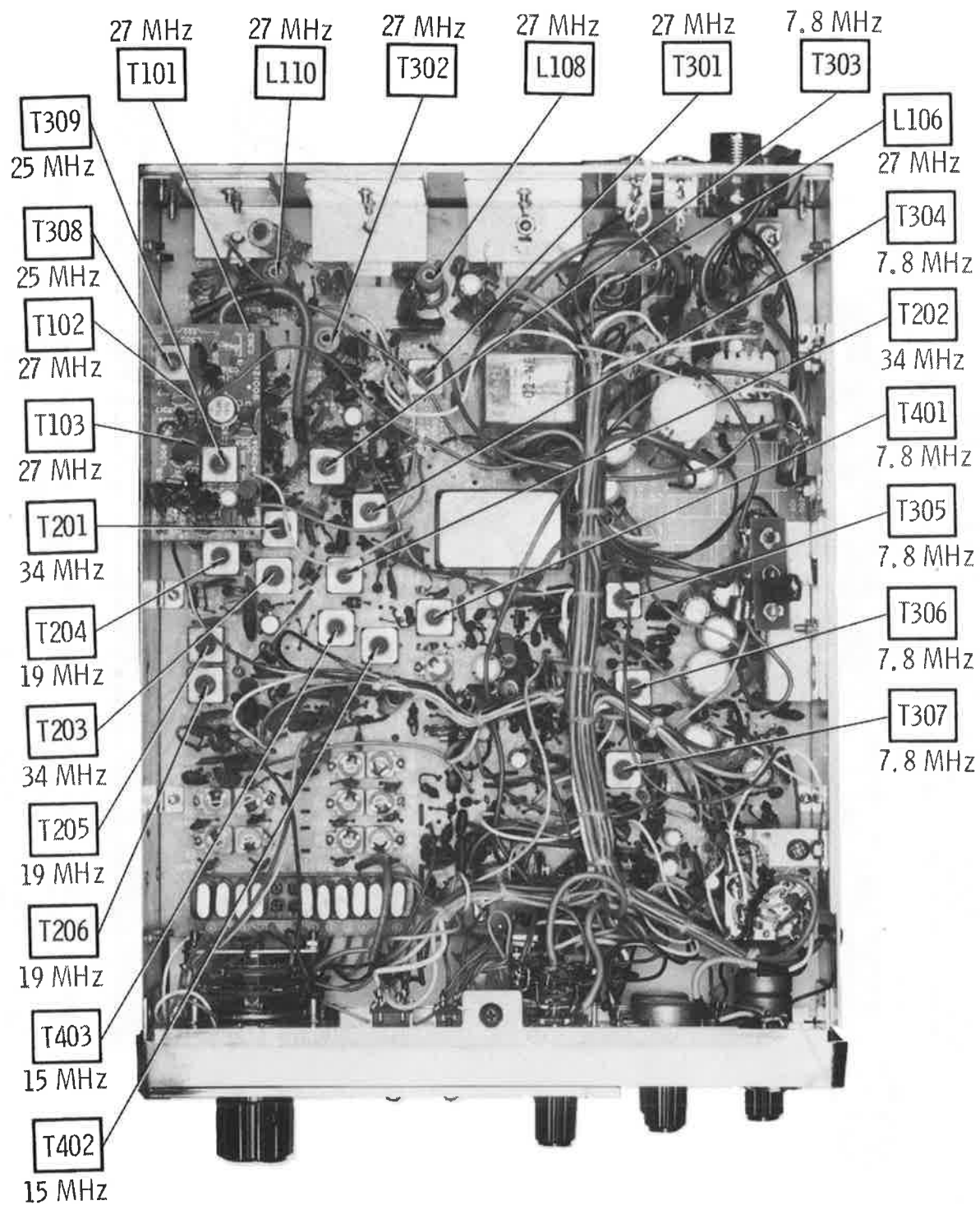
TRANSMITTER ADJUSTMENTS

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 120-volt AC input to power supply.

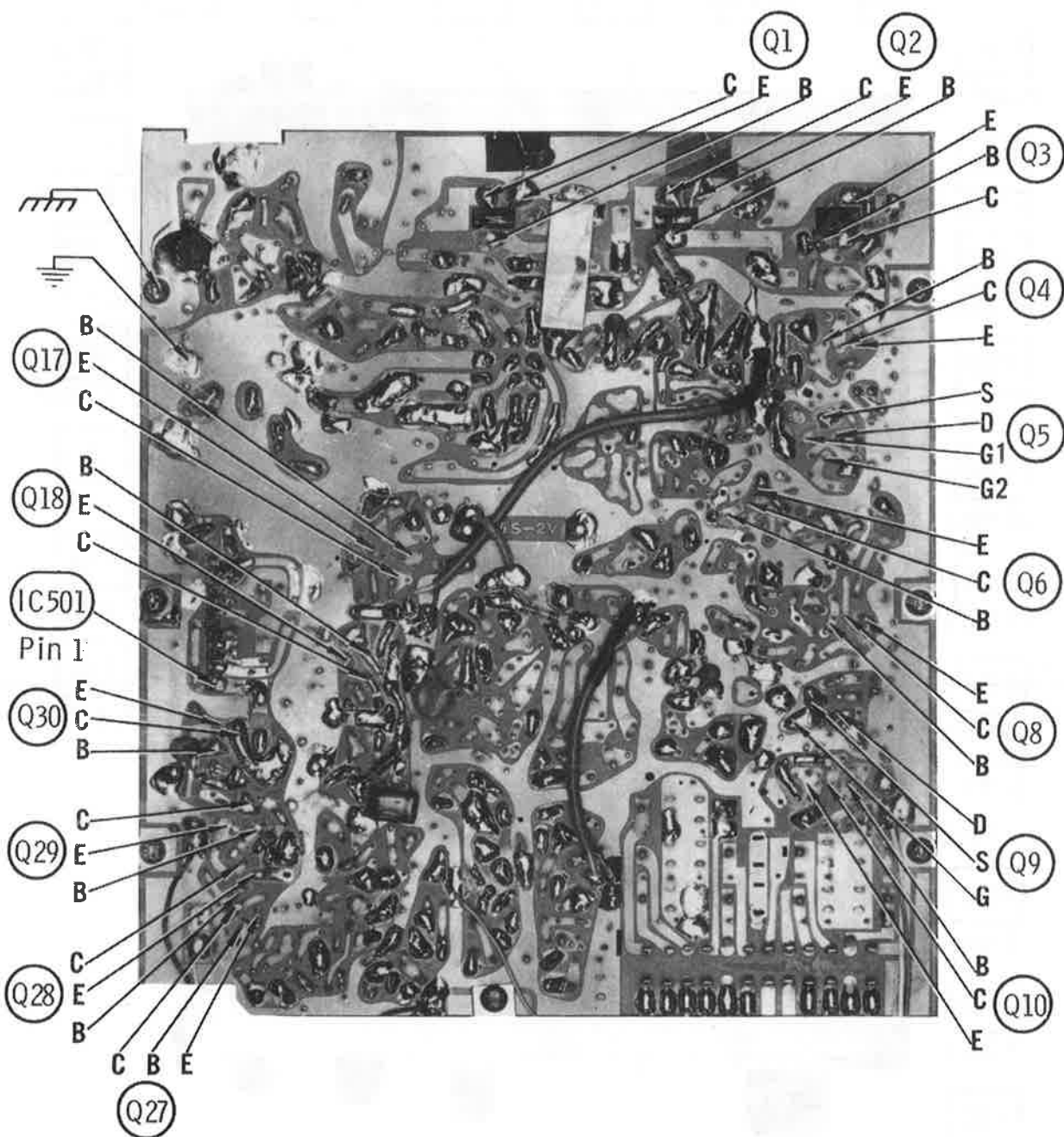
INDICATOR	ADJUST	REMARKS
ALC Input of RF wattmeter and scope to antenna jack, common to ground.	R130	Set mode switch to LSB. Key transmitter. Inject a 1000Hz signal at mic input adjusted to produce 15 watts output. Adjust for 12 watts.
AMC Input of modulation meter to antenna jack, common to ground.	R616	Set mode switch to AM. Key transmitter. Inject a 1000Hz audio signal at mic input adjusted to produce 50% modulation. Increase generator output by a factor of 6. Adjust for 100% modulation maximum.
MIC GAIN Input of wattmeter and modulation meter to antenna jack, common to ground.	R617	Leave generator output at level for adjustment of R616 (AMC) if necessary adjust R617 (MIC GAIN) for 100% modulation. Recheck R130 (ALC) for 12 watts maximum.
RF PANEL METER Input of RF Wattmeter to antenna jack, common to ground.	R129	Set mode switch to LSB. Inject 1000Hz audio signal to produce 12 watts. Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.



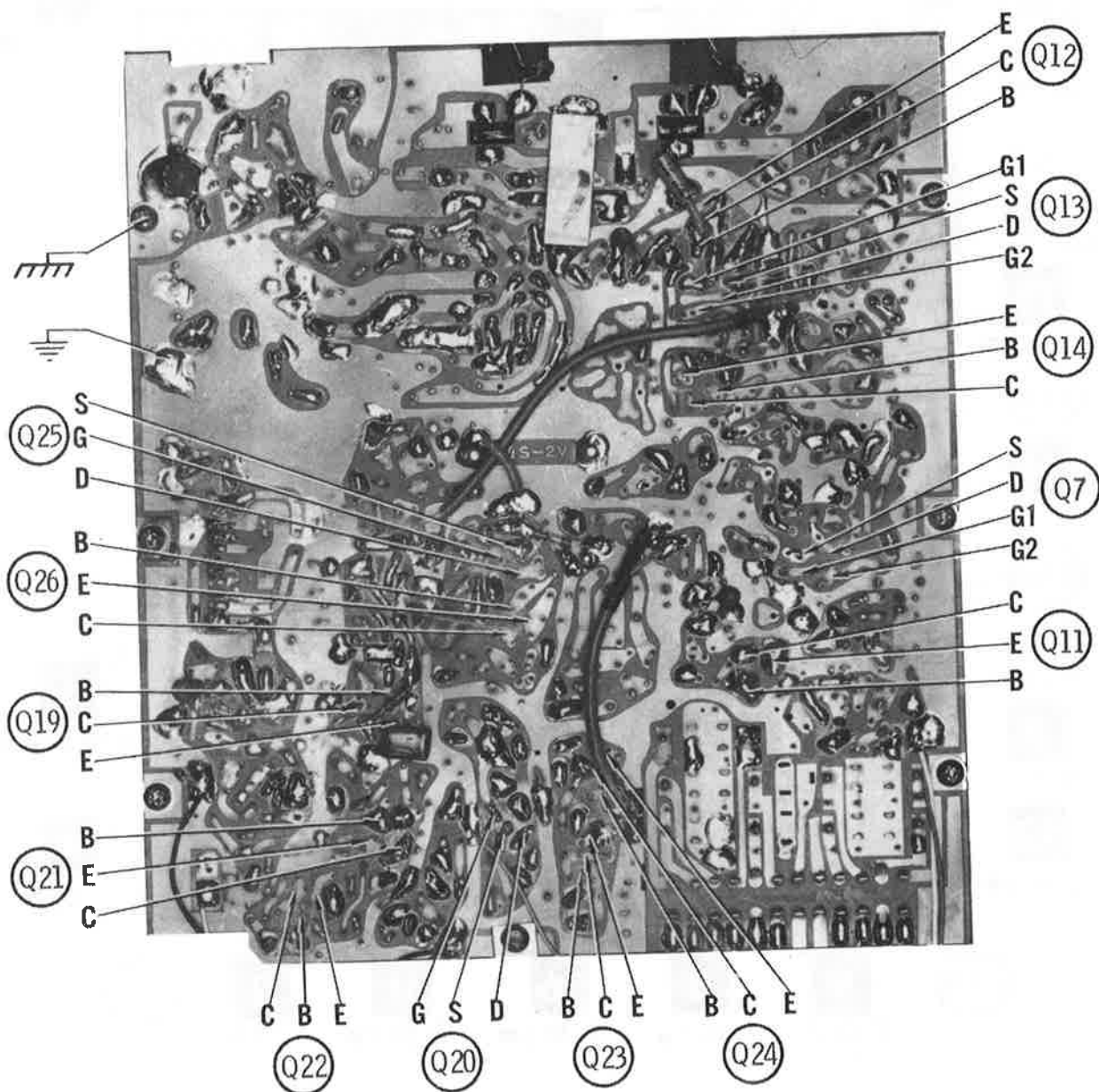
CHASSIS – BOTTOM



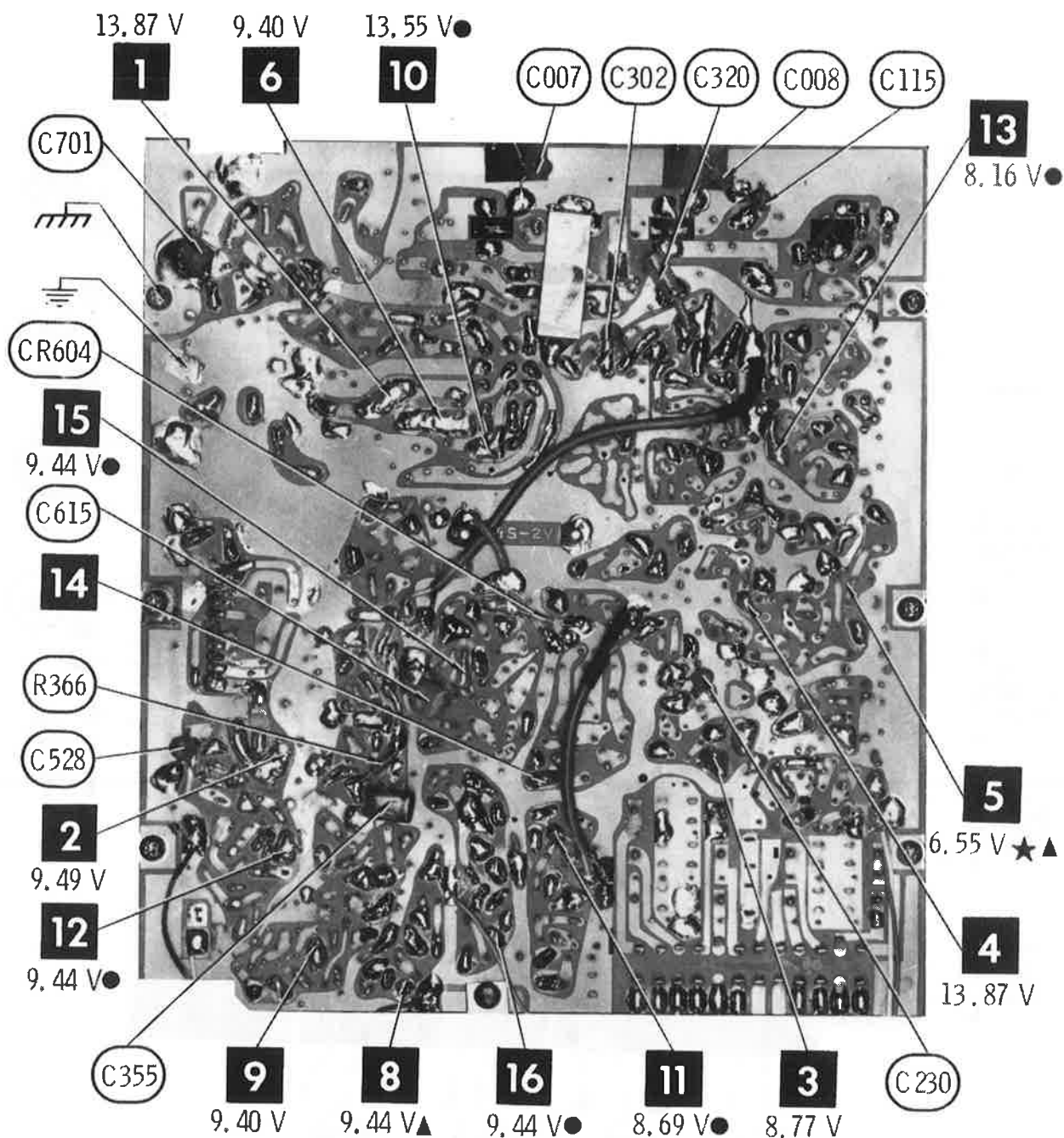
CHASSIS — BOTTOM



MAIN BOARD



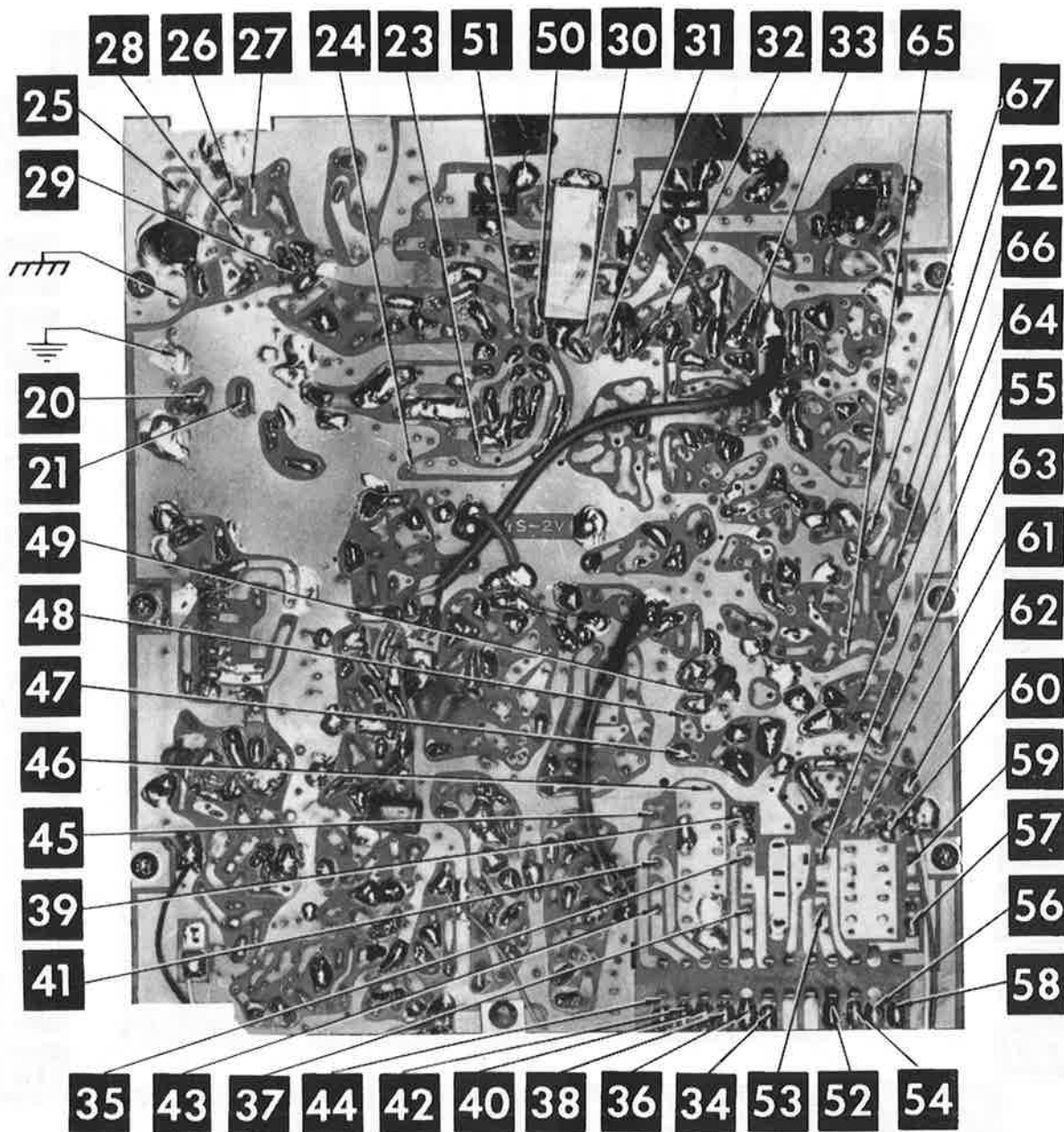
MAIN BOARD



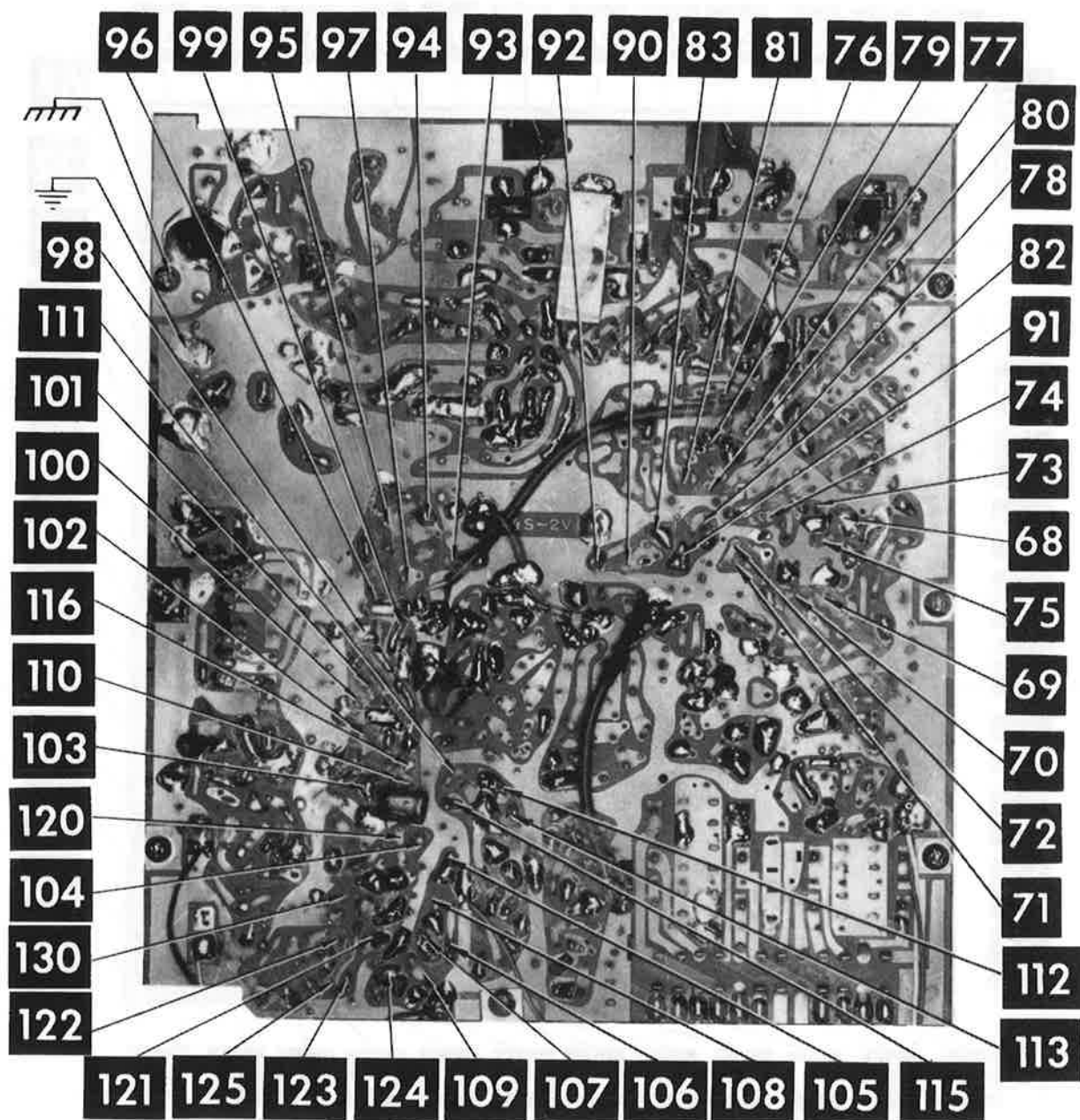
● Transmit
▲ AM ★ LSB

MAIN BOARD

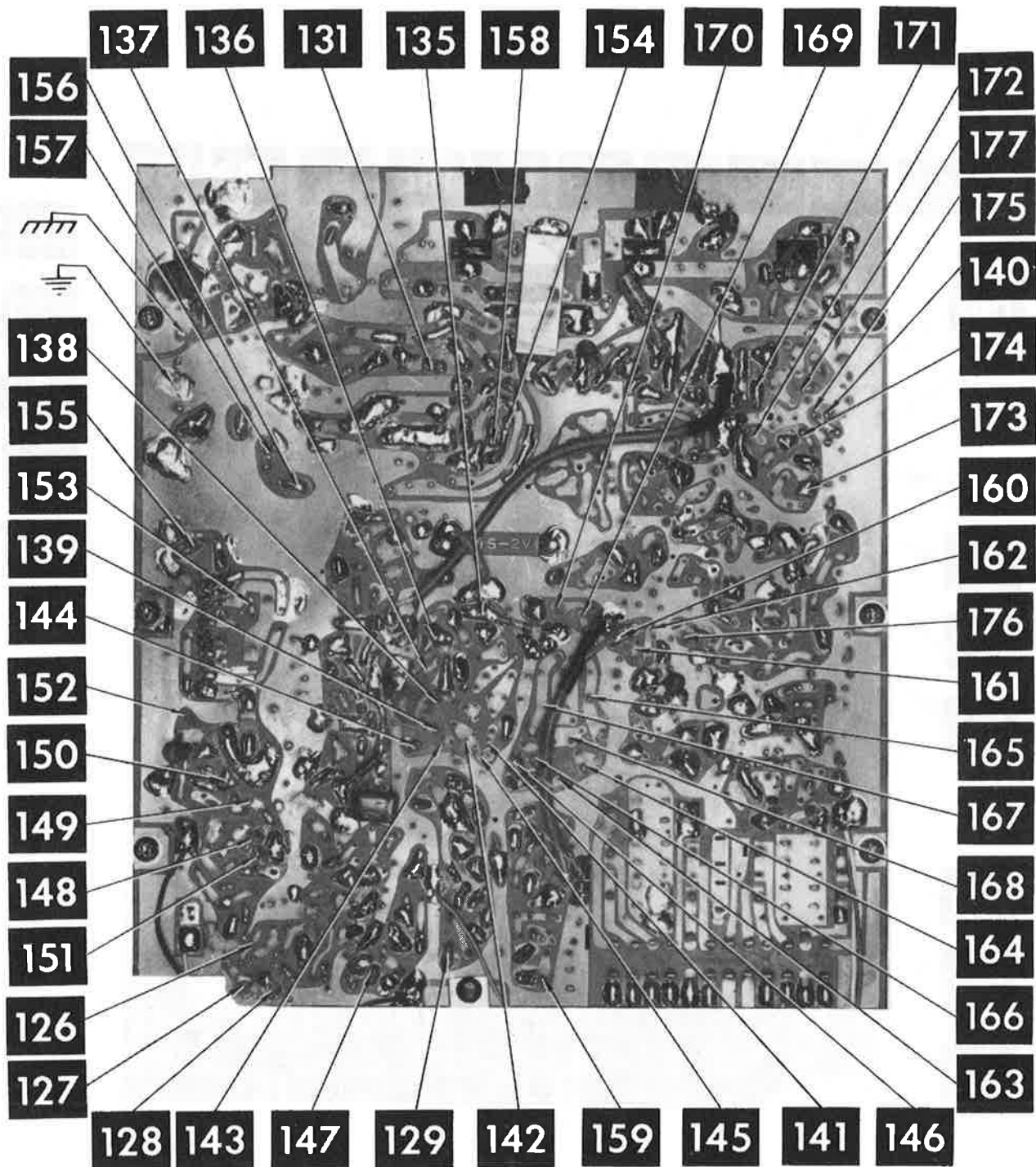
TRAM MODEL XL5



MAIN BOARD

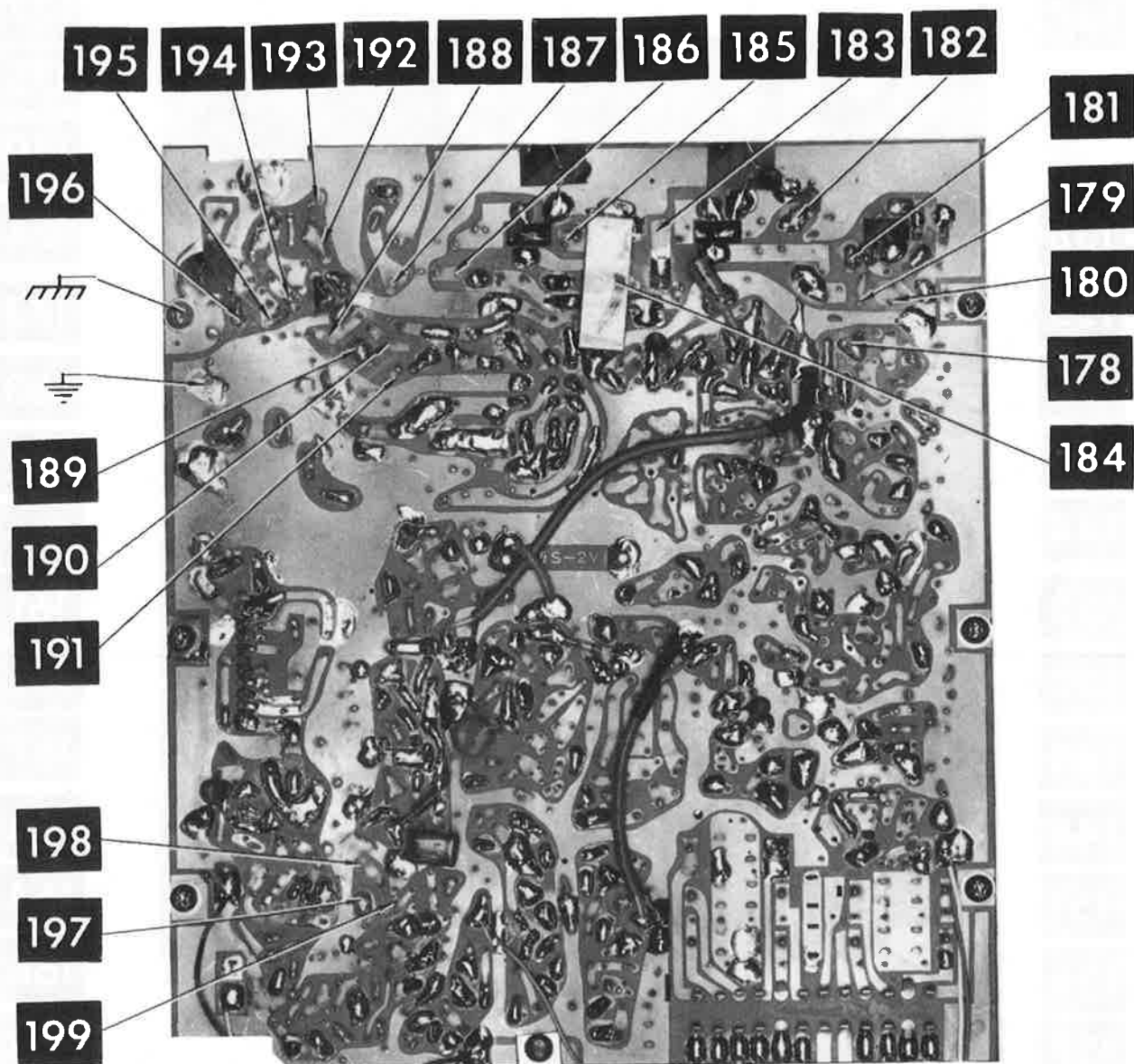


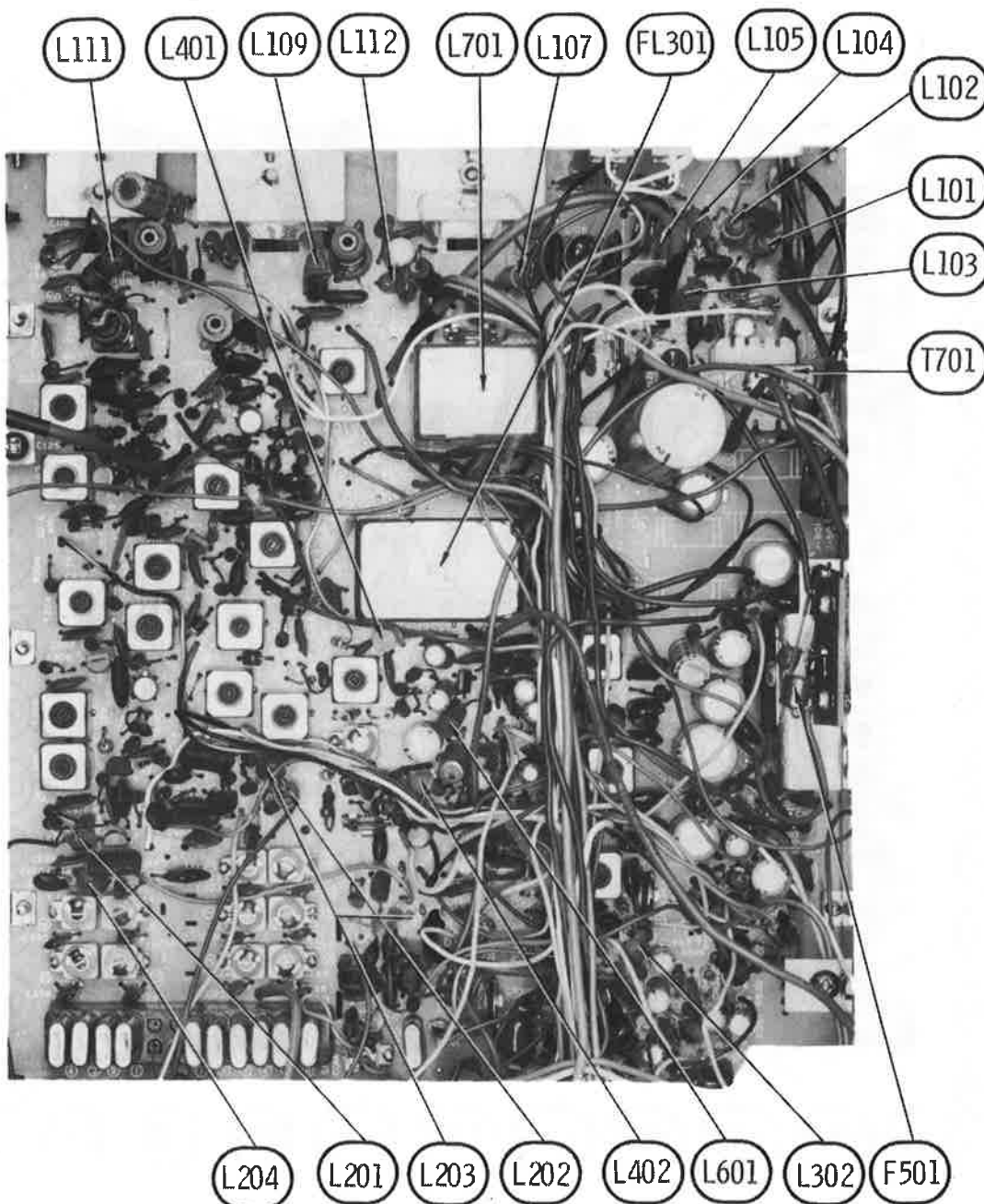
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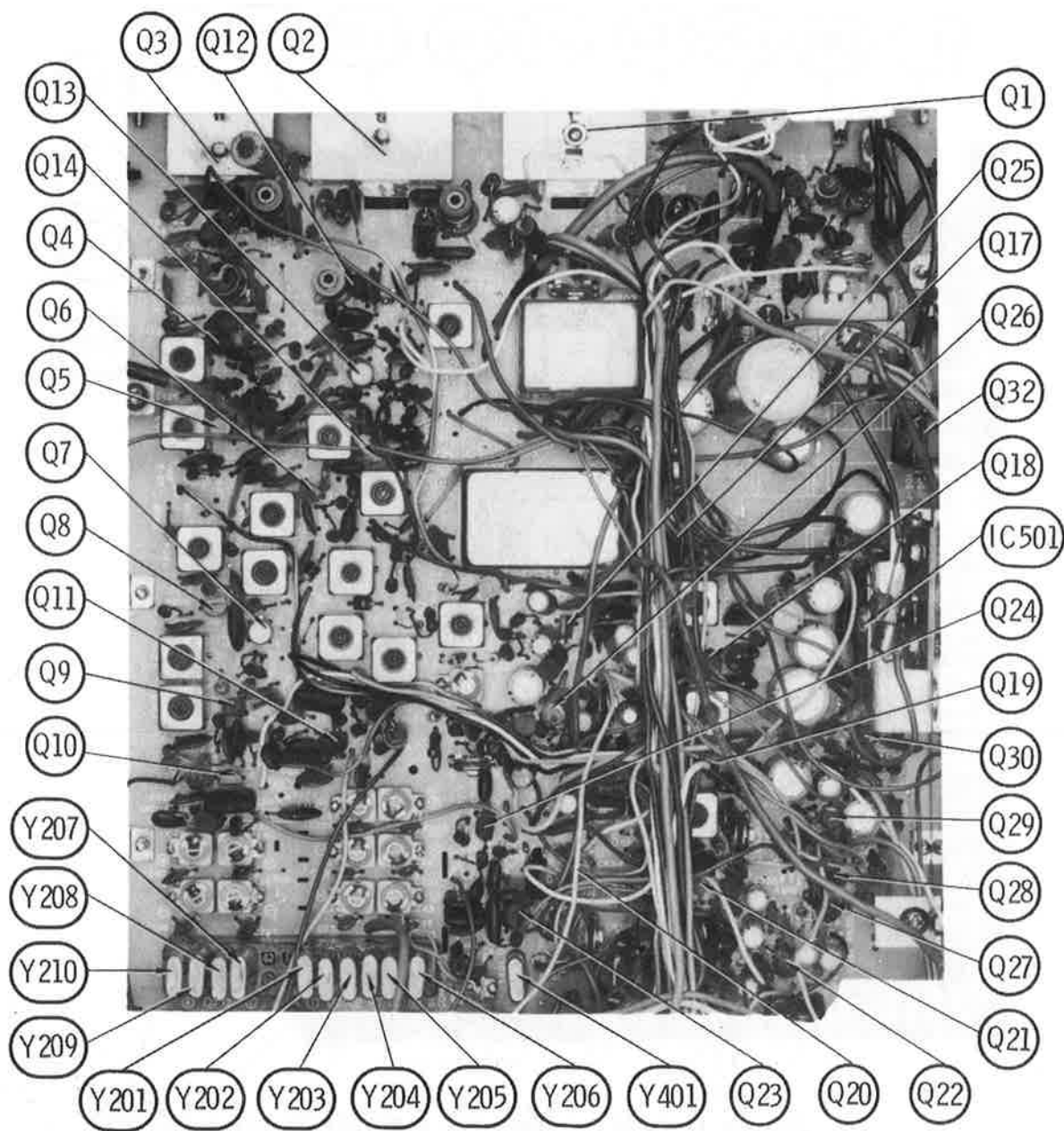
TRAM MODEL XLS

MAIN BOARD

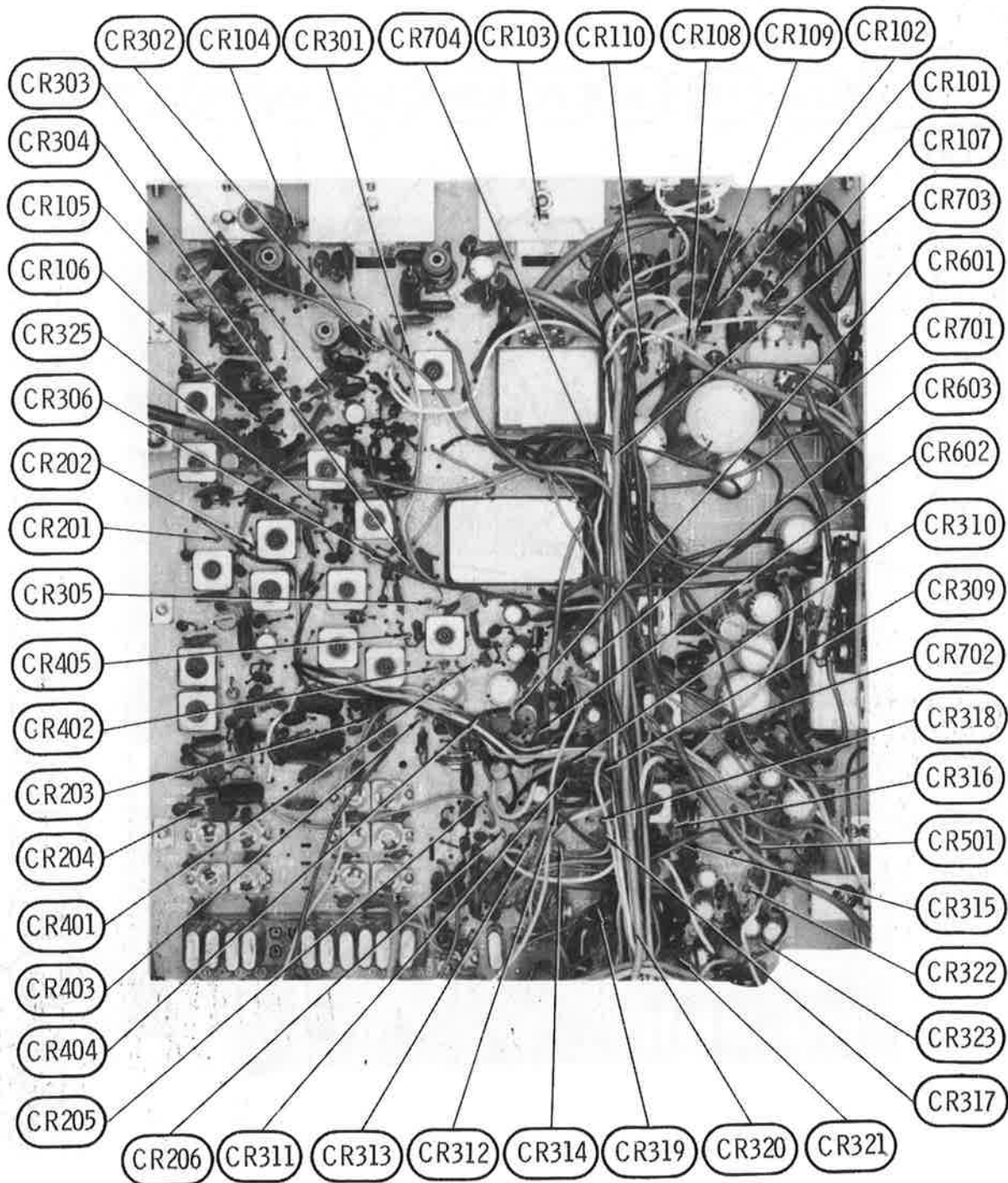




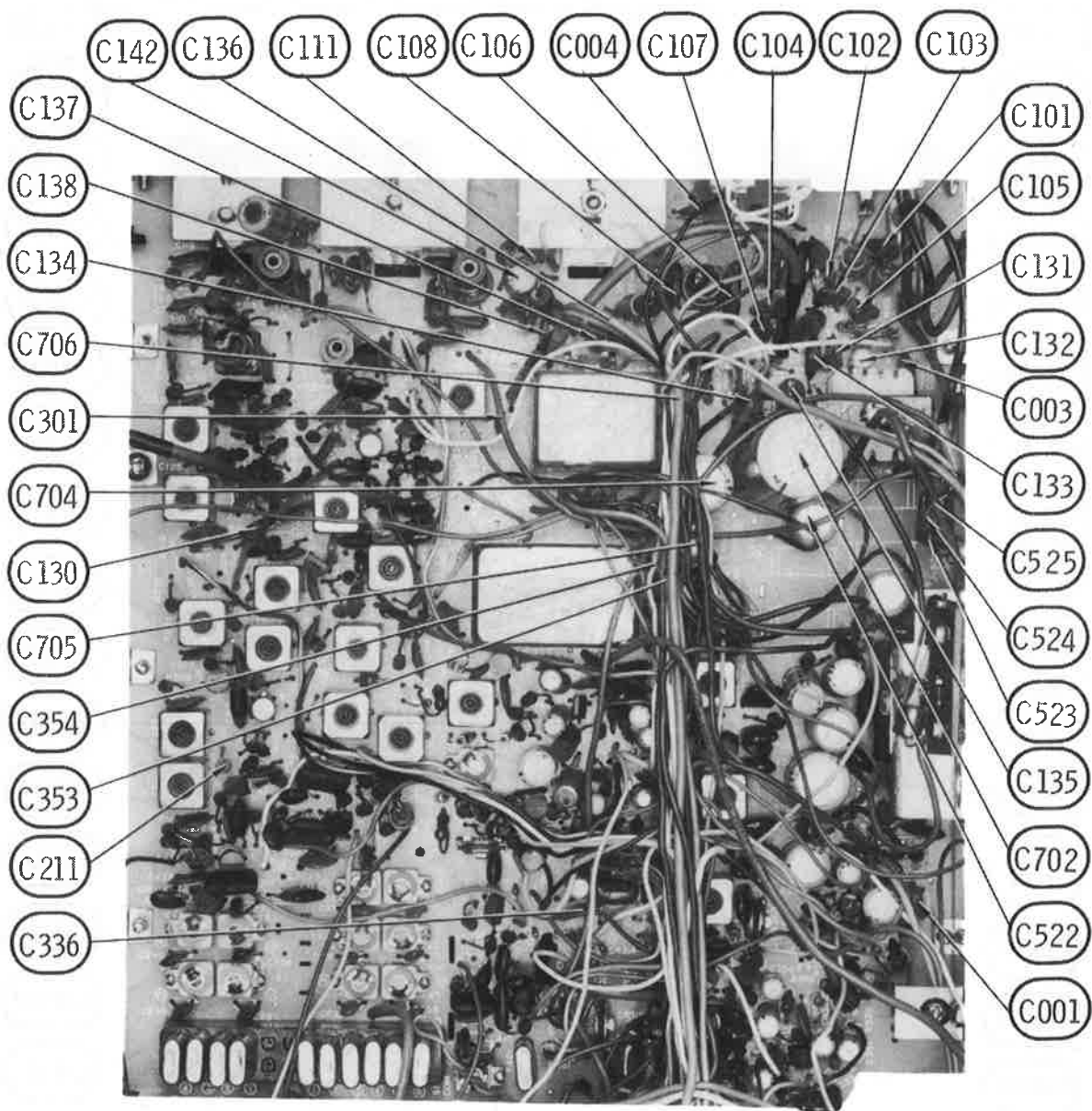
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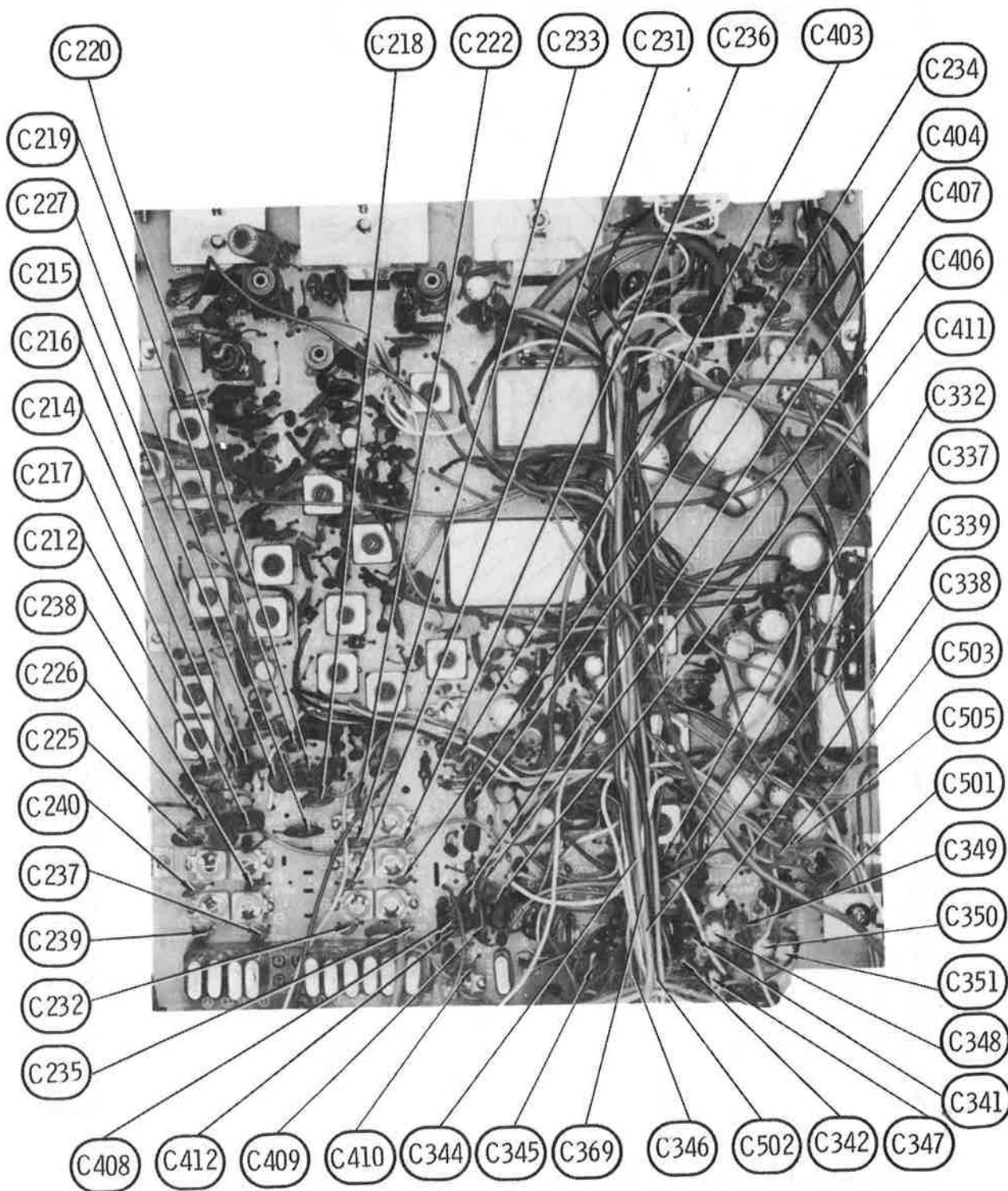
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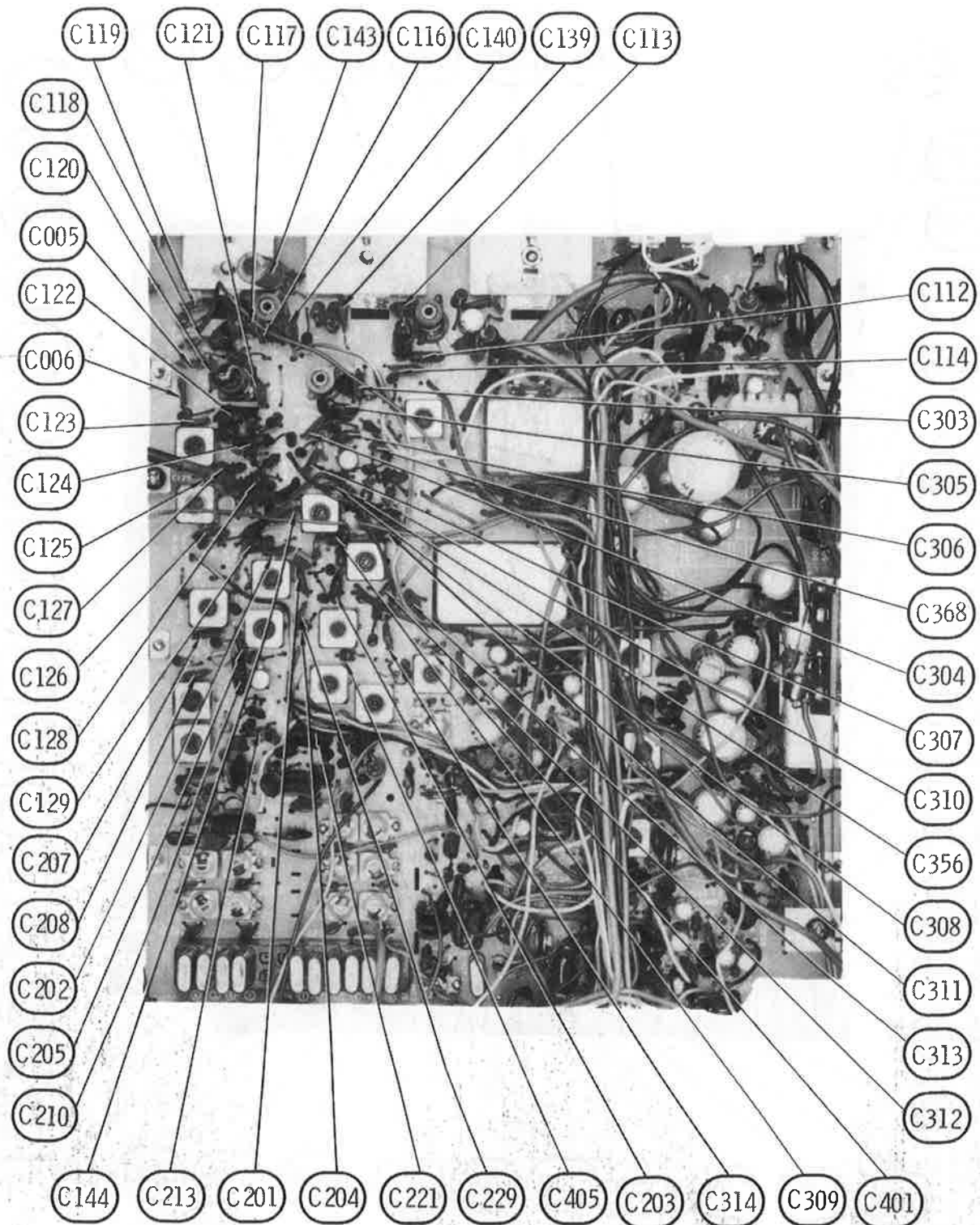
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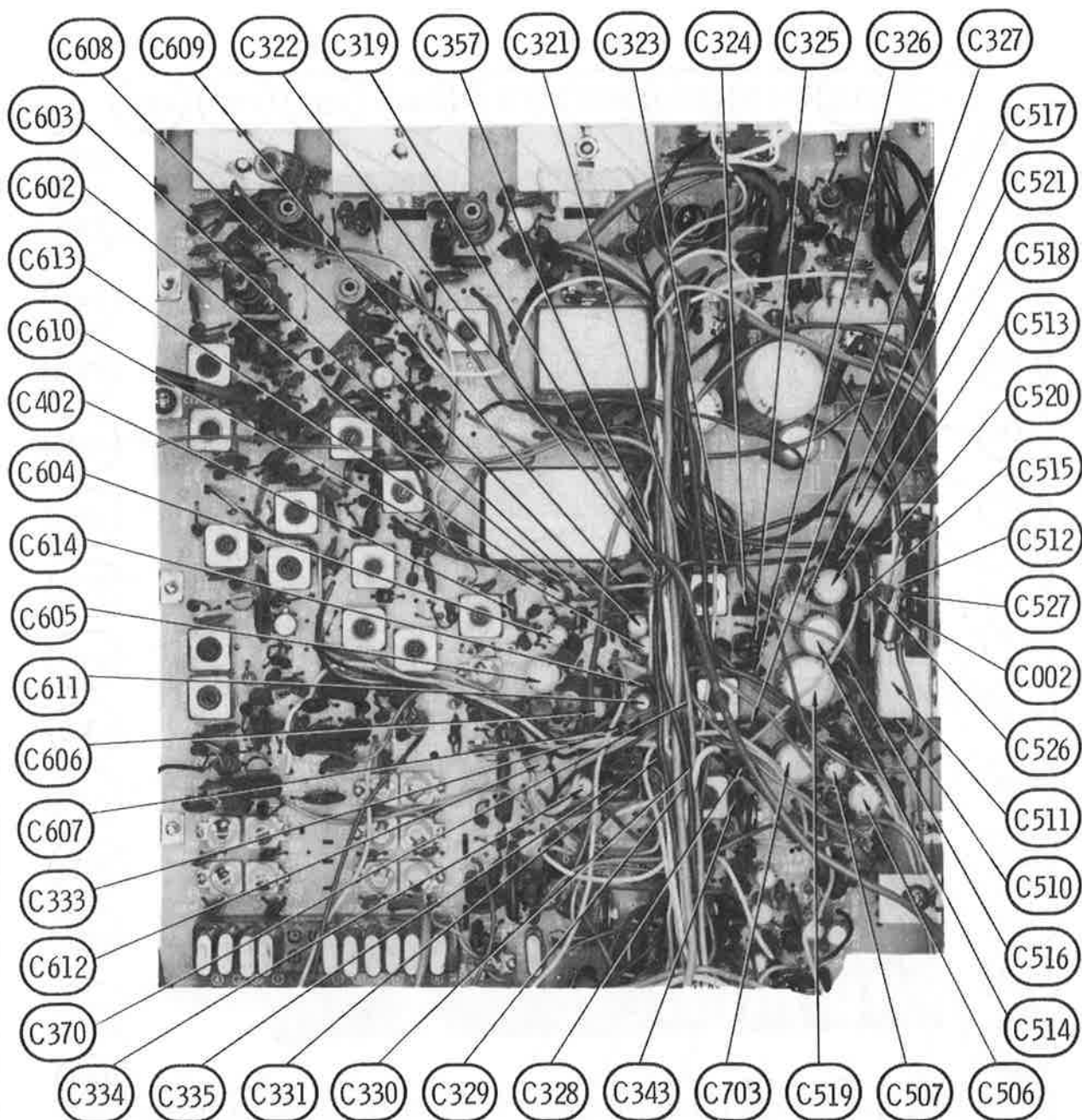
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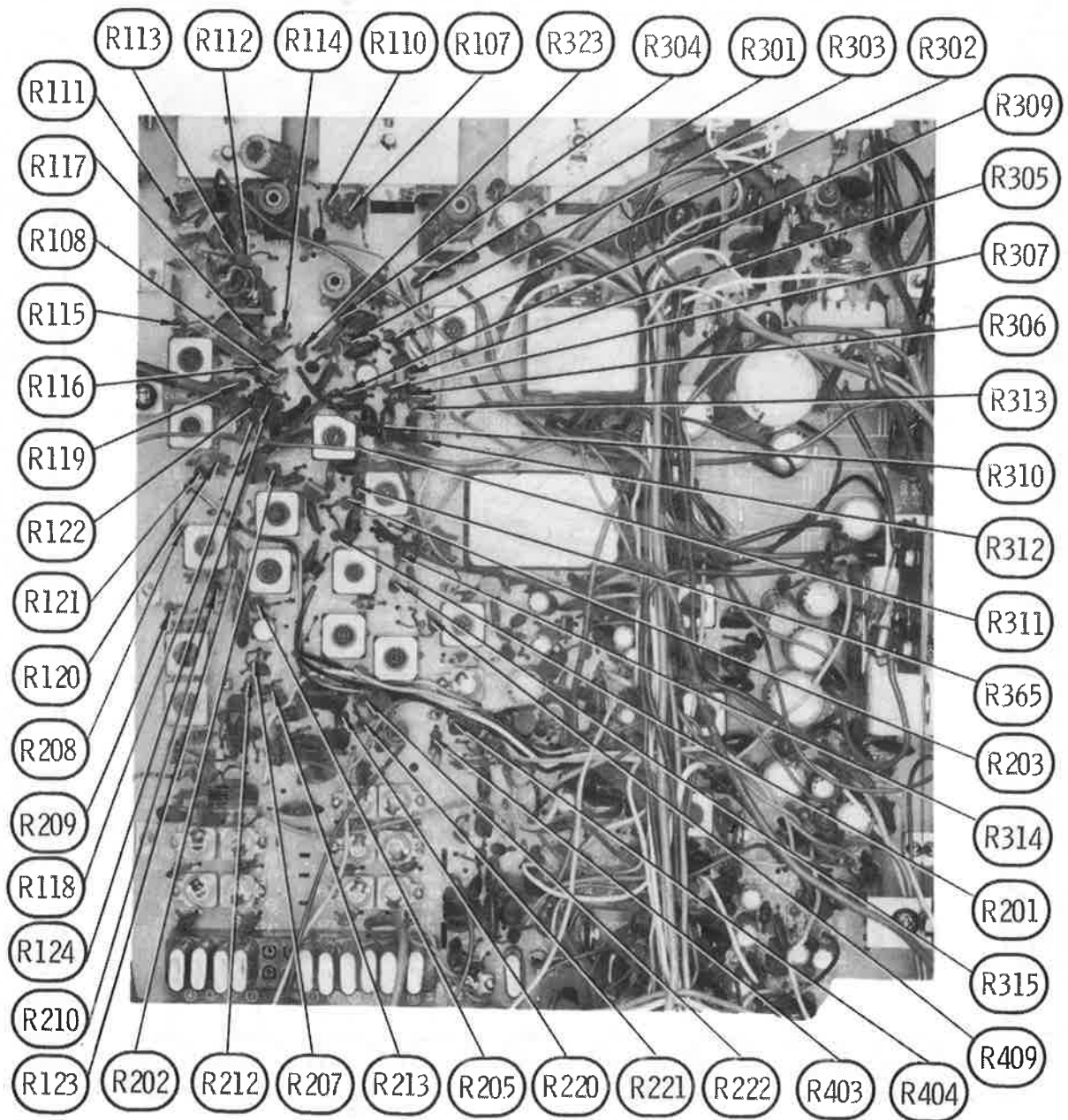
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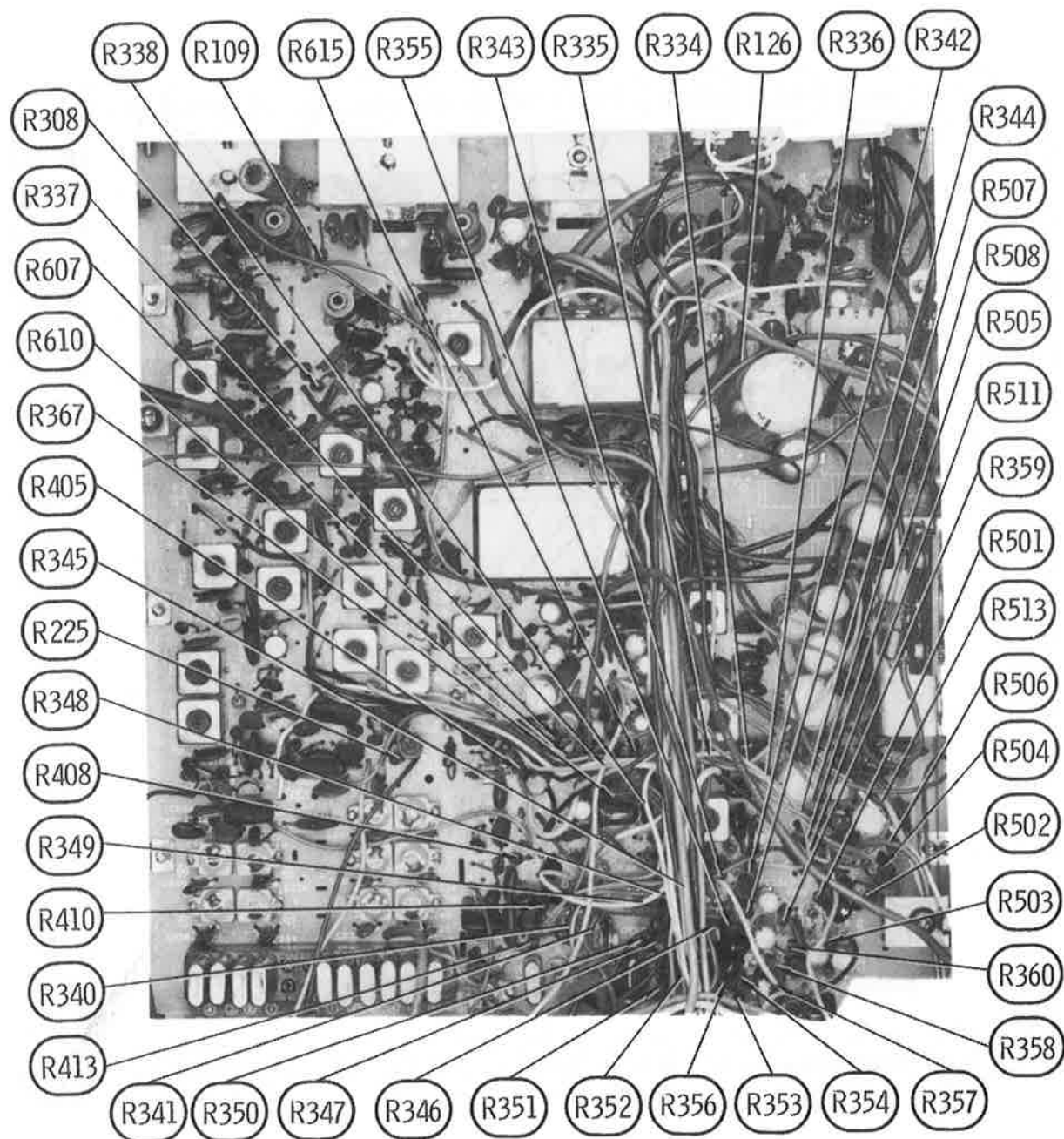
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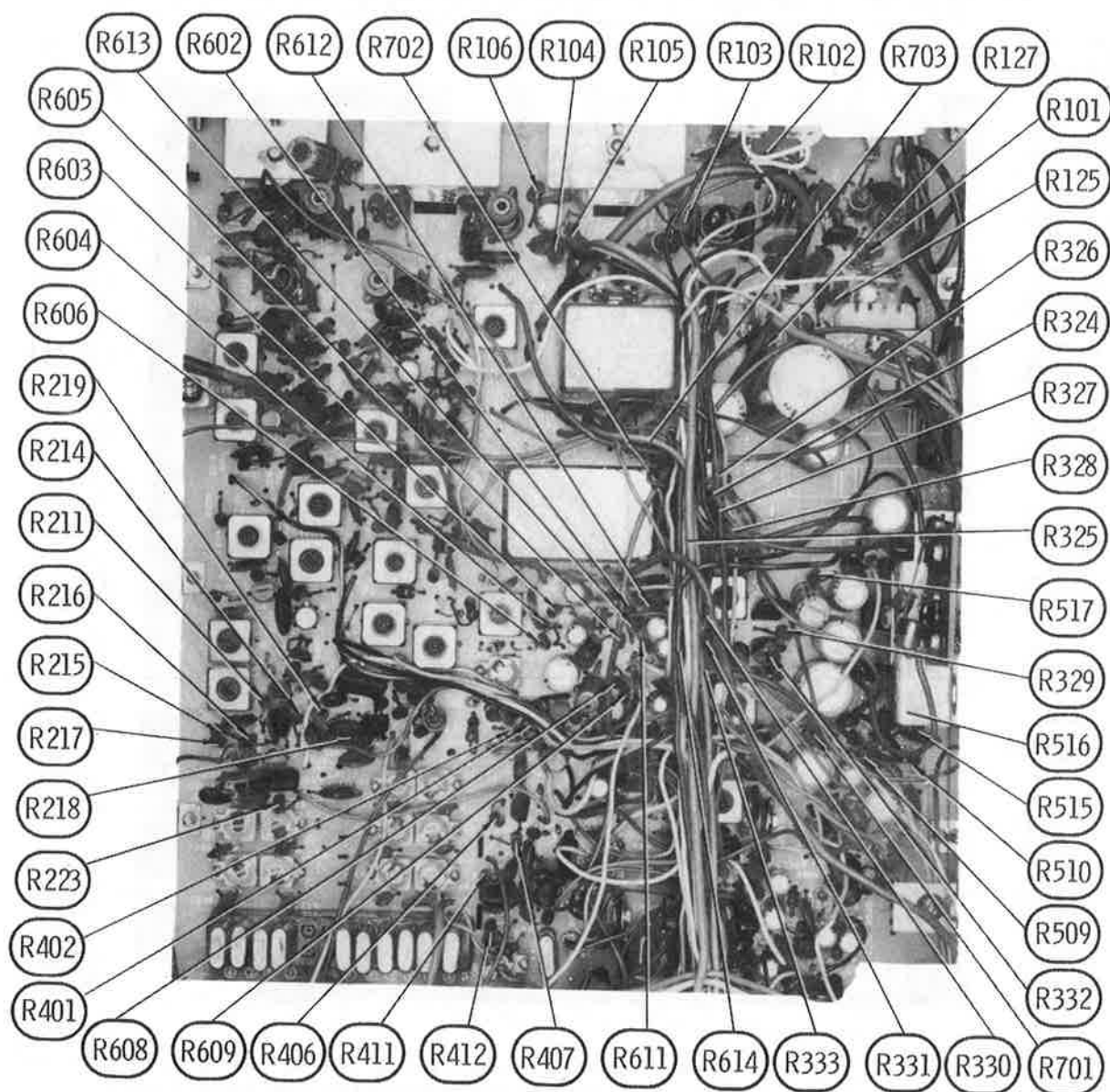
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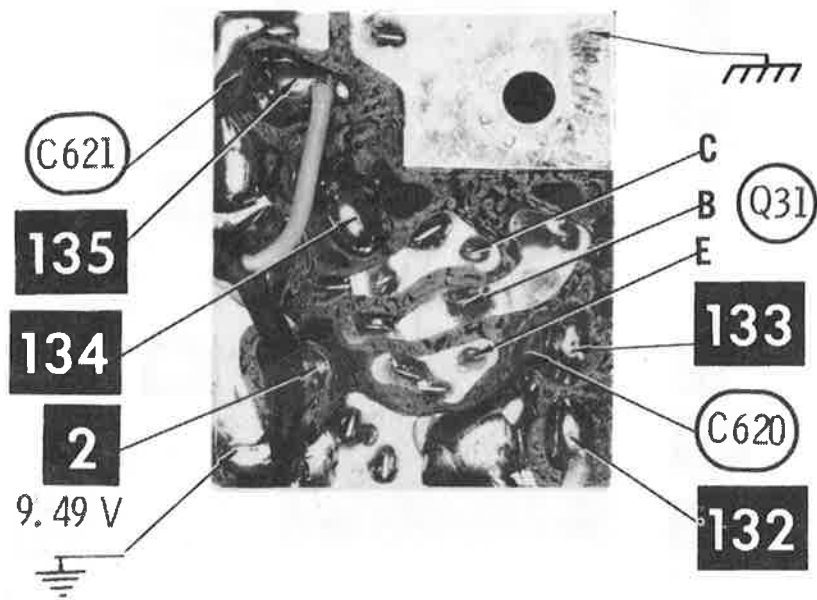
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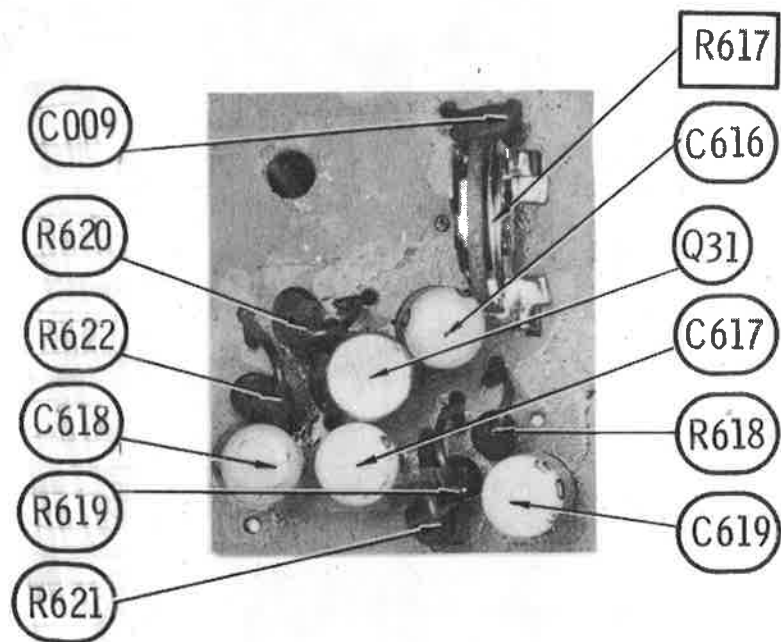
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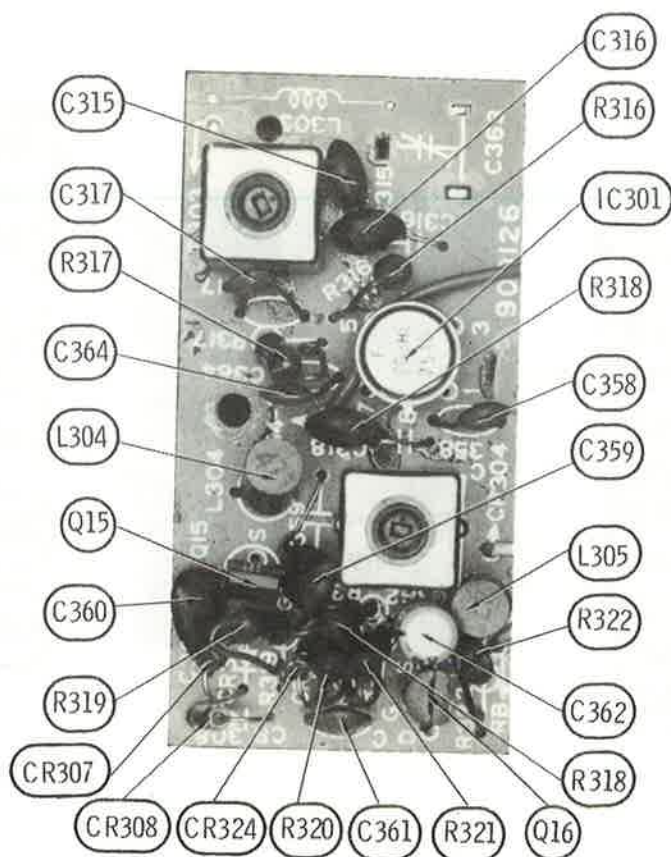
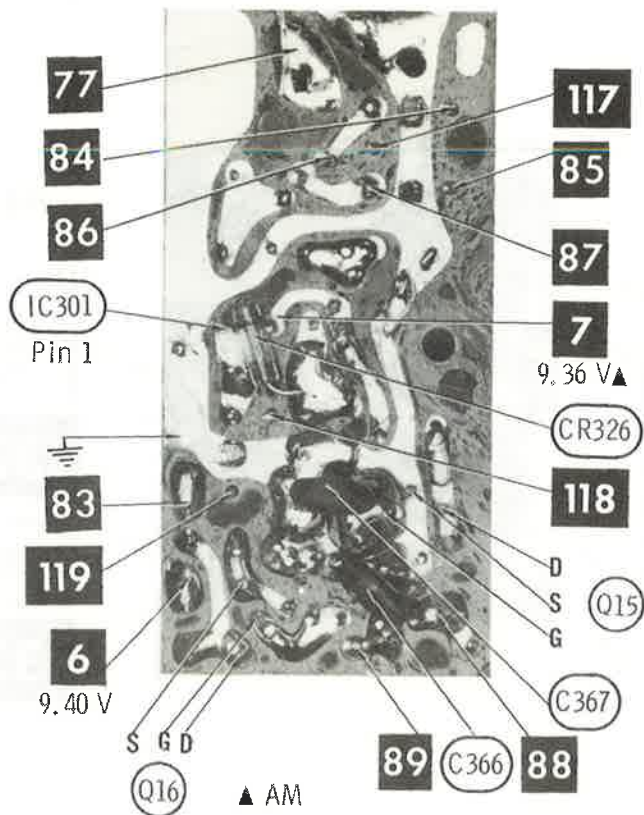
MAIN BOARD



TRAM MODEL XLS



MIC PREAMP BOARD



NOISE BLANKER BOARD

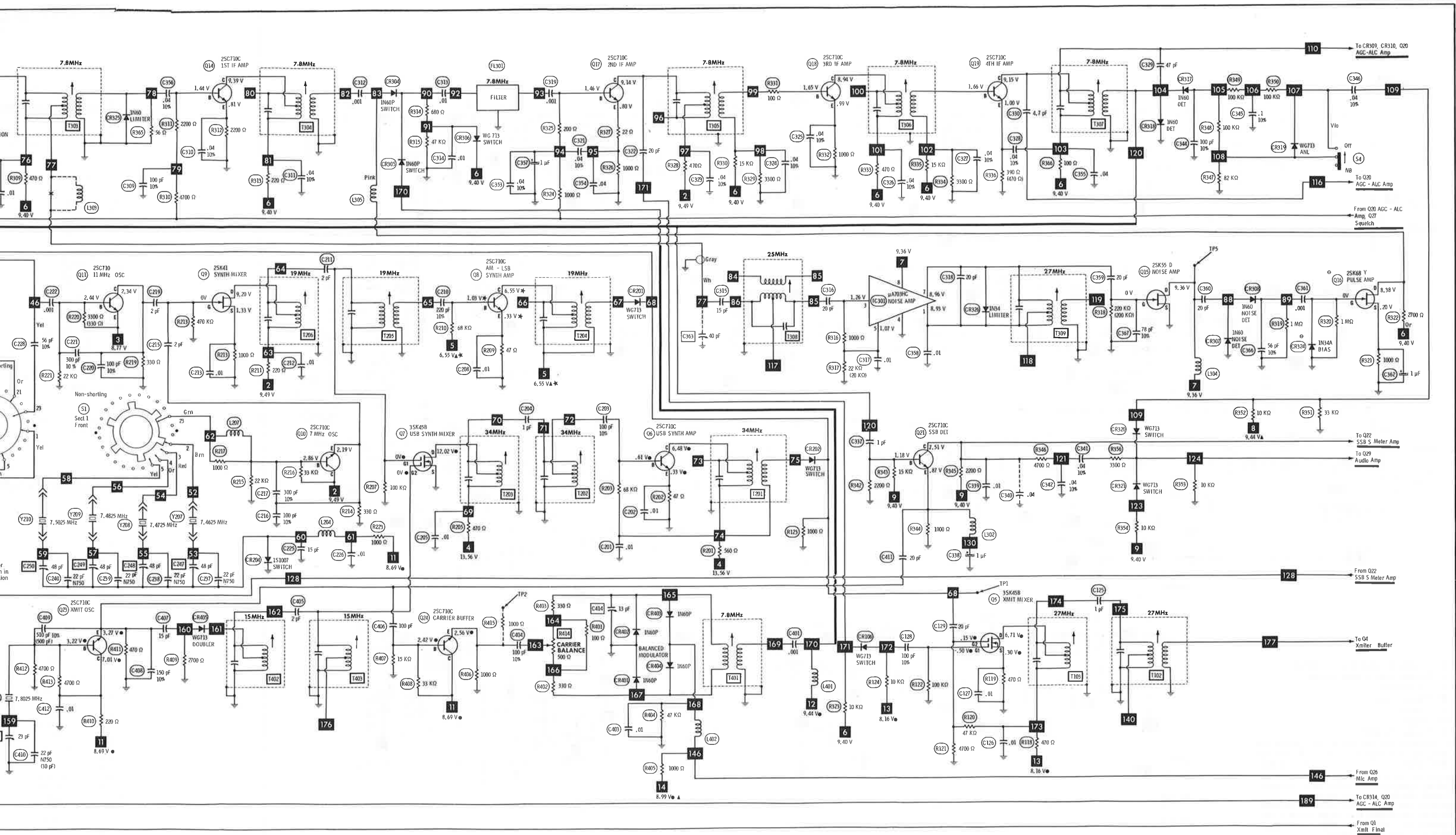
PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CR101	10D4		GE-504A	5A4D	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116
CR102	10D4		GE-504A	5A4D	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116
CR103	1S990S									
CR104	1S990S									
CR105	1S990S									
CR106	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR107	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR108	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR109	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR110	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR201	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR202	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR203	1S2688		GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
CR204	1S1007		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
CR205	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR206	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR301	1S2472		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR302	1S2472		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR303	1S1007		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
CR304	1N60P		1N60(7)	1N60 (7)	PTC206M(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)
CR305	1N60P									
CR306	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR307	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR308	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR309	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR310	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR311	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR312	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR313	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR314	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR315	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR316	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR317	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR318	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR319	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR320	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR321	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR322	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR323	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR324	1N34		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
CR325	1N60(1)		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR326	1N34		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR401	1N60P		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
CR402	1N60P		1N60(7)	1N60 (7)	PTC206M(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)
CR403	1N60P									
CR404	1N60P		1N60(7)	1N60 (7)	PTC206M(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)
CR405	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR501	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR601	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR602	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR603	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR604	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CR701	1N4004		GE-504A	5A4D	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116
CR702	BZ090		GEZD-9.1		ZB9.1B		RE 114		RT-240	ECG139
CR703	BZ090		GEZD-9.1		ZB9.1B		RE 114		RT-240	ECG139
CR704	BZ090		GEZD-9.1		ZB9.1B		RE 114		RT-240	ECG139
IC301	UA703HC		GEIC-12	IC-500	PTC743	HEPC6001	RE 300-IC	SK3157	TVMC-44	ECG703A
IC501	TA7205P		GEIC-12		PTC780					ECG1155
Q1	2SC1307		GE-216		PTC186		RE 201	SK3197	RT-158	ECG236
Q2	2SC1306		GE-215		PTC186		RE 203	SK3197	RT-146	ECG235
Q3	2SC1449				PTC180					
Q4	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q5	3SK45B		GE-FET-4		PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
Q6	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q7	3SK45B		GE-FET-4		PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
Q8	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q9	2SK41F		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q10	2SK19GR(1)		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q11	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q12	2SC710B		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q13	3SK45B		GE-FET-4		PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
Q14	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q15	2SK55D		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q16	2SK68Y		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312

TRAM MODEL XLS



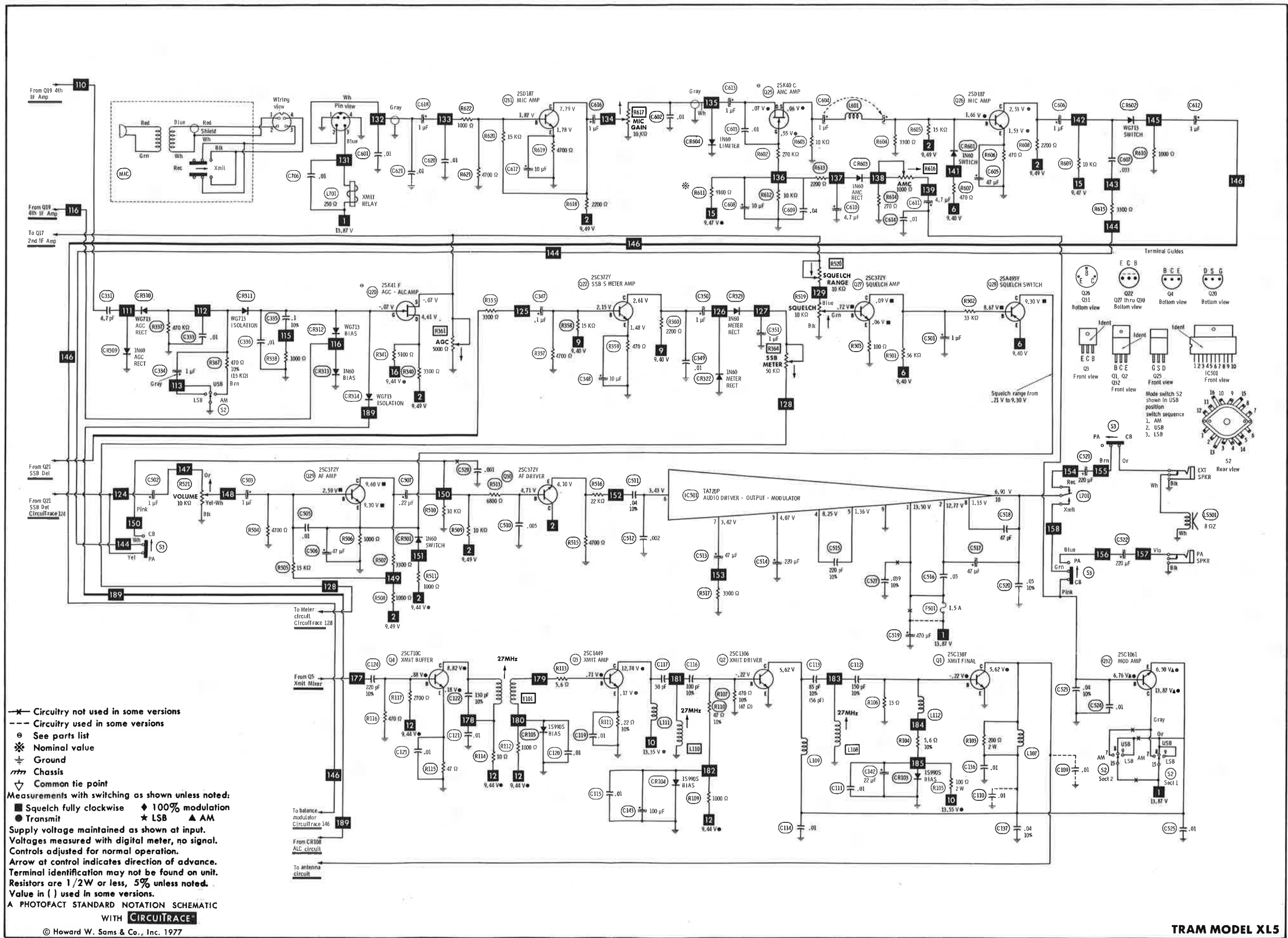
SEMICONDUCTOR

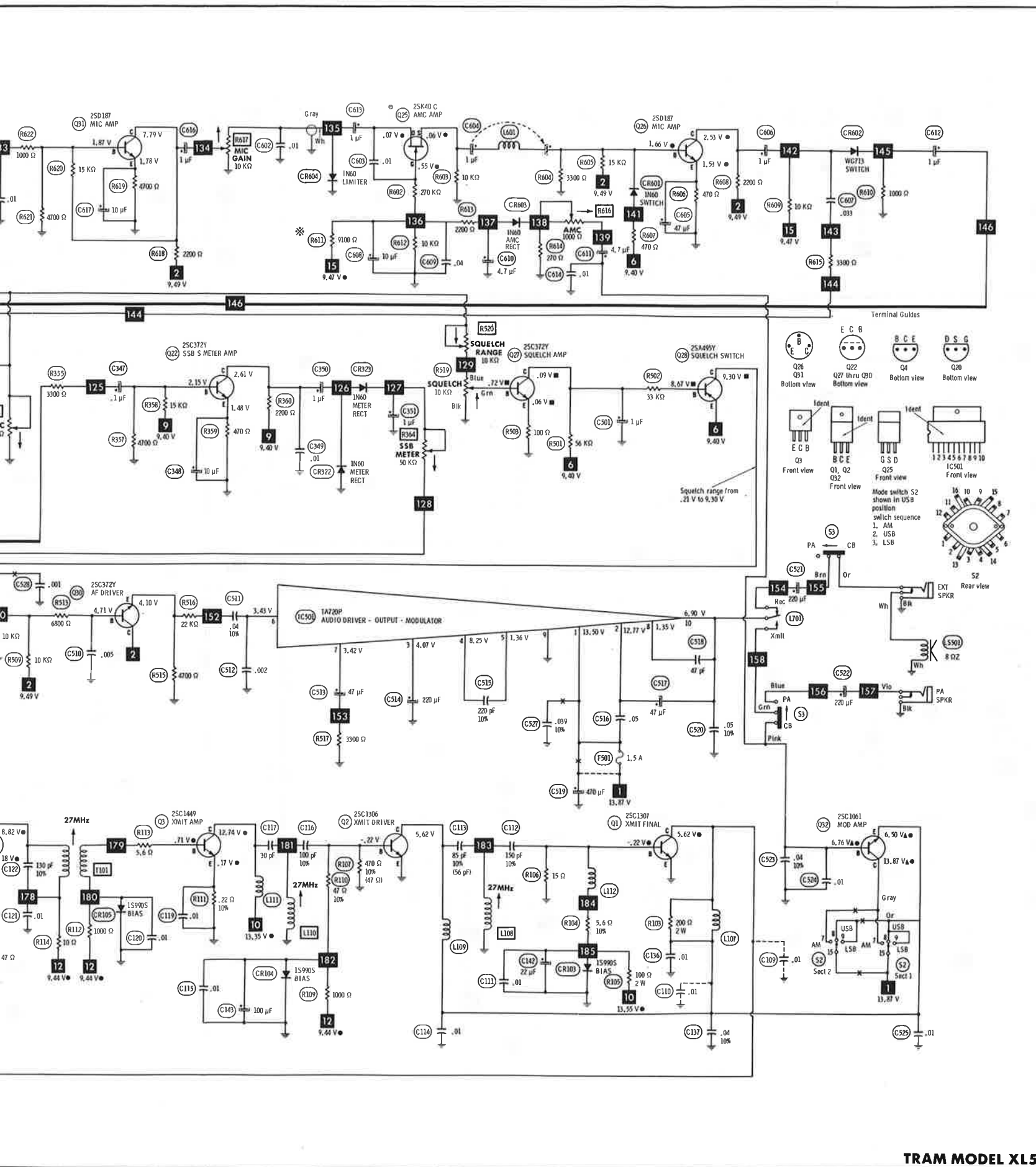
ITEM No.	TYPE No.	MFR. PART No.
Q17	2SK30AY (1)	
Q18	2SK40(1)	
Q19	2SC710C	
Q20	2SC710C	
Q21	2SK41F	
Q22	2SK19GR	
Q23	2SC710C	
Q24	2SC710C	
Q25	2SK40C, OR 2SK30AY (1)	
Q26	2SD187	
Q27	2SC372Y	
Q28	2SA495Y	
Q29	2SC372Y	
Q30	2SC372Y	
Q31	2SD187	
Q32	2SC1061C (13)	

- (1) Used in some versions.
(6) Matched pair.
(7) Two required - select ma
(10) Rating, 25 Watts @ 8.0 A
(11) Rating, 12 Watts @ 3.0 A
(12) Rating, 5.0 Watts @ 3.0 A
(13) Rating, 25 Watts @ 3.0 A

ELECTROLYTIC CA

ITEM No.	RATING
C132	1 50V
C142	22 16V
C143	100 16V
C320	1 50V
C334	1 50V
C338	1 50V
C347	1 50V
C348	10 16V
C350	1 50V
C351	1 50V
C357	1 50V
C362	1 50V
C501	1 50V
C502	1 50V
C503	1 50V
C506	47 16V
C507	.22 50V
C513	47 16V
C514	220 16V
C517	47 16V
C519	470 16V
C521	220 16V
C522	220 16V
C604	1 50V
C605	47 16V
C606	1 50V
C608	10 16V
C610	4.7 25V
C611	4.7 25V
C612	1 50V
C613	1 50V
C616	1 50V
C617	10 16V
C618	1 50V
C619	10 16V
C702	2200 16V
C703	220 16V
C704	470 16V
C705	220 16V





PARTS LIST AND DESCRIPTION (CONTINUED)

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

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
	25K30AY (1)		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q17	25K40(1)		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q18	25C710C		GE-211	(1R)25C710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q19	25C710C		GE-211	(1R)25C710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q20	25K41F		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	25K19GR (1)		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q21	25C710C		GE-211	(1R)25C710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q22	25C372Y		GE-61	(1R)25C4588	PTC121	HEPS0015	RE 13	SK3122	RT-308	ECG123A
Q23	25C710C		GE-211	(1R)25C710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q24	25C710C		GE-211	(1R)25C710	PTC115	HEPS0016	RE 13	SK3018	RT-308	ECG123A
Q25	25K40C, OR 25K30AY(1)		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q26	25D187		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q27	25C372Y		GE-59	TR-08	PTC134	HEPG0011	RE 6	SK3010	RT-119	ECG103A
Q28	25A495Y		GE-61	(1R)25C4588	PTC121	HEPS0015	RE 13	SK3122	RT-308	ECG123A
Q29	25C372Y		GE-221	(1R)25A495	PTC103	HEPS0013	RE 26	SK3114	RT-106	ECG159
Q30	25C372Y		GE-61	(1R)25C4588	PTC121	HEPS0015	RE 13	SK3122	RT-308	ECG123A
Q31	25D187		GE-61	(1R)25C4588	PTC121	HEPS0015	RE 13	SK3122	RT-308	ECG123A
Q32	25C1061C (13)		GE-59	TR-08	PTC134	HEPG0011	RE 6	SK3010	RT-119	ECG103A
			GE-66	TR-76	PTC154	HEPS5027	RE 21	SK3054	RT-197	ECG152

ELECTROLYTIC CAPACITORS

		REPLACEMENT DATA			
ITEM No.	RATING	MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C132	1 50V		PC1-50	VTT1B63	EV-1615
C142	22 16V		PC250-25	VTT22A16	EV-1224
C143	100 16V		PC100-16	VTT100F16	EV-1230
C320	1 50V		PC1-50	VTT1B63	EV-1615
C334	1 50V		PC1-50	VTT1B63	EV-1615
C338	1 50V		PC1-50	VTT1B63	EV-1615
C347	1 50V		PC1-50	VTT1B63	EV-1615
C348	10 16V		PC10-25	VTT10A25	EV-1222
C350	1 50V		PC1-50	VTT1B63	EV-1615
C351	1 50V		PC1-50	VTT1B63	EV-1615
C357	1 50V		PC1-50	VTT1B63	EV-1615
C362	1 50V		PC1-50	VTT1B63	EV-1615
C501	1 50V		PC1-50	VTT1B63	EV-1615
C502	1 50V		PC1-50	VTT1B63	EV-1615
C503	1 50V		PC1-50	VTT1B63	EV-1615
C506	47 16V		PC50-16	VTT47D16	EV-1226
C507	22 50V			TDC224M050EL	SD50-R229
C513	47 16V		PC50-16	VTT47D16	EV-1226
C514	220 16V		PC250-25	VTT220G16	EV-1240
C517	47 16V		PC50-16	VTT47D16	EV-1226
C519	470 16V		PC500-16	VTT470J16	EV-1250
C521	220 16V		PC250-25	VTT220G16	EV-1240
C522	220 16V		PC250-25	VTT220G16	EV-1240
C604	1 50V		PC1-50	VTT1B63	EV-1615
C605	47 16V		PC50-16	VTT47D16	EV-1226
C606	1 50V		PC1-50	VTT1B63	EV-1615
C608	10 16V		PC10-25	VTT10A25	EV-1222
C610	4.7 25V		PC5-50	VTT4R7A50	EV-1319
C611	4.7 25V		PC5-50	VTT4R7A50	EV-1319
C612	1 50V		PC1-50	VTT1B63	EV-1615
C613	1 50V		PC1-50	VTT1B63	EV-1615
C616	1 50V		PC1-50	VTT1B63	EV-1615
C617	10 16V		PC10-25	VTT10A25	EV-1222
C618	1 50V		PC1-50	VTT1B63	EV-1615
C619	10 16V		PC10-25	VTT10A25	EV-1222
C702	2200 16V		WBR2000-16	TC1520C	TVA-1175.3
C703	220 16V		PC250-25	VTT220G16	EV-1240
C704	470 16V		PC500-16	VTT470J16	EV-1250
C705	220 16V		PC250-25	VTT220G16	EV-1240

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C001	.01		UK50-103		MAG5011	
C002	.01		UK50-103		MAG5011	
C003	.047					
C004	.01		UK50-103		MAG5011	
C005	.01		UK50-103		MAG5011	
C006	.01		UK50-103		MAG5011	
C007	.01		UK50-103		MAG5011	
C008	.01		UK50-103		MAG5011	
C009	.01		UK50-103		MAG5011	
C101	68 10%			CD15ED680J03	SX468	MWA-680
C102	.001		DD-102		GP210	10TS-D10
C103	100 10%			CD15FD101J03	SX310	MWA-101
C104	.01		UK50-103		MAG5011	
C105	2		DTZ-1R5	NP01P5	CN0515	10TCC-V15
C106	390 2%			CD15FD391J03	SX339	MWA-391
C107	10			CD15CD100J03		MWA-100
C108	220 10%			CD15FD221J03	SX322	MWA-221
C109	.01		UK50-103		MAG5011	
C110	.01		UK50-103		MAG5011	
C111	.01		UK50-103		MAG5011	
C112	150 10%			CD15FD151J03	SX315	MWA-151
C113	85 10%			CD15ED820J03	SX482	MWA-820
C114	.01		UK50-103		MAG5011	
C115	.01		UK50-103		MAG5011	
C116	100 10%			CD15FD101J03	SX310	MWA-101
C117	30			CD15ED300J03	SX430	MWA-300
C118	.01		UK50-103		MAG5011	
C119	.01		UK50-103		MAG5011	
C120	.01		UK50-103		MAG5011	
C121	.01		UK50-103		MAG5011	
C122	130 10%			CD15FD131J03	SX313	MWA-131
C123	.01		UK50-103		MAG5011	
C124	220 10%			CD15FD221J03	SX322	MWA-221
C125	1			CD15CD010D03		MWA-010
C126	.01		UK50-103		MAG5011	
C127	.01		UK50-103		MAG5011	
C128	100 10%			CD15FD101J03	SX310	MWA-101
C129	20			CD15ED200J03	SX420	MWA-200
C130	100 10%			CD15FD101J03	SX310	MWA-101
C131	.01		UK50-103		MAG5011	
C133	100 10%			CD15FD101J03	SX310	MWA-101
C134	.01		UK50-103		MAG5011	
C135	.1 10%			WMF05P1	EWFO5010	431P1049R5
C136	.01		UK50-103		MAG5011	
C137	.04 10%				M192P3939R8	192P3939R8
C138	.01		UK50-103		MAG5011	
C139	.01		UK50-103		MAG5011	
C140	.01		UK50-103		MAG5011	
C144	.01		UK50-103		MAG5011	
C201	.01		UK50-103		MAG5011	
C202	.01		UK50-103		MAG5011	
C203	100 10%			CD15FD101J03	SX310	MWA-101
C204	1			CD15CD010D03		MWA-010
C205	.01		UK50-103		MAG5011	
C207	.01		UK50-103		MAG5011	
C208	.01		UK50-103		MAG5011	
C210	220 10%			CD15FD221J03	SX322	MWA-221
C211	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C212	.01		UK50-103		MAG5011	
C213	.01		UK50-103		MAG5011	
C214	.01		UK50-103		MAG5011	
C215	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C216	100 10%			CD15FD101J03	SX310	MWA-101
C217	300 10%			CD15FD301J03	SX330	MWA-301
C218	.01		UK50-103		MAG5011	
C219	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C220	100 10%			CD15FD101J03	SX310	MWA-101
C221	300 10%			CD15FD301J03	SX330	MWA-301
C222	.001		DD-102		GP210	10TS-D10
C224	.01		UK50-103		MAG5011	
C225	15			CD15CD150J03		MWA-150
C226	.01		UK50-103		MAG5011	
C227	.04 10%				M192P3939R8	192P3939R8
C228	56 10%			CD15ED560J03	SX456	MWA-560
C229	.01		UK50-103		MAG5011	
C230	.01		UK50-103		MAG5011	
C231	30 N750					
C232	30 N750					
C233	30 N750					
C234	30 N750					
C235	30 N750					
C236	30 N750					
C237	22 N750		DTN-22	N22	CN7422	10TCU-Q22
C238	22 N750		DTN-22	N22	CN7422	10TCU-Q22
C239	22 N750		DTN-22	N22	CN7422	10TCU-Q22
C240	22 N750		DTN-22	N22	CN7422	10TCU-Q22
C241	30					
C242	30					
C243	30					

TRAM MODEL XL5

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C244	30					
C245	30					
C246	30					
C247	48					
C248	48					
C249	48					
C250	48					
C301	.001		DD-102		GP210	10TS-D10
C302	.01		UK50-103		MAG5011	
C303	.01		UK50-103		MAG5011	
C304	.01		UK50-103		MAG5011	
C305	85 10%			CD15ED820J03	SX482	MWA-820
C306	100 10%			CD15FD101J03	SX310	MWA-101
C307	.01		UK50-103		MAG5011	
C308	.01		UK50-103		MAG5011	
C309	100 10%			CD15FD101J03	SX310	MWA-101
C310	.04 10%				M192P3939R8	192P3939R8
C311	.04 10%				M192P3939R8	192P3939R8
C312	.001		DD-102		GP210	10TS-D10
C313	.01		UK50-103		MAG5011	
C314	.01		UK50-103		MAG5011	
C315	15			CD15CD150J03		MWA-150
C316	20			CD15ED200J03	SX420	MWA-200
C317	.01		UK50-103		MAG5011	
C318	20			CD15ED200J03	SX420	MWA-200
C319	.001		DD-102		GP210	10TS-D10
C321	.04 10%				M192P3939R8	192P3939R8
C322	20			CD15ED200J03	SX420	MWA-200
C323	.04 10%				M192P3939R8	192P3939R8
C324	.04 10%				M192P3939R8	192P3939R8
C325	.04 10%				M192P3939R8	192P3939R8
C326	.04 10%				M192P3939R8	192P3939R8
C327	.04 10%				M192P3939R8	192P3939R8
C328	.04 10%				M192P3939R8	192P3939R8
C329	47			CD15ED470J03	SX447	MWA-470
C330	4.7			CD15CD050D03		MWA-050
C331	4.7			CD15CD050D03		MWA-050
C332	.001		DD-102		GP210	10TS-D10
C333	.01		UK50-103		MAG5011	
C335	.1 10%			WMF05P1	EWFO5010	431P1049R5
C336	.01		UK50-103		MAG5011	
C337	1			CD15CD010D03		MWA-010
C339	.01		UK50-103		MAG5011	
C340	.04				M192P3939R8	192P3939R8
C341	.04 10%				M192P3939R8	192P3939R8
C342	.04 10%				M192P3939R8	192P3939R8
C343	.04 10%				M192P3939R8	192P3939R8
C344	100 10%			CD15FD101J03	SX310	MWA-101
C345	.1 10%			WMF05P1	EWFO5010	431P1049R5
C346	.04 10%				M192P3329R8	192P3329R8
C349	.01		UK50-103		MAG5011	
C353	.04 10%				M192P3939R8	192P3939R8
C354	.04 10%				M192P3939R8	192P3939R8
C355	.04				M192P3939R8	192P3939R8
C356	.04 10%				M192P3939R8	192P3939R8
C358	.01		UK50-103		MAG5011	
C359	20			CD15ED200J03	SX420	MWA-200
C360	20			CD15ED200J03	SX420	MWA-200
C361	.001		DD-102		GP210	10TS-D10
C363	40					
C364	.01		UK50-103		MAG5011	
C365	.04				M192P3939R8	192P3939R8
C366	56 10%			CD15ED560J03	SX456	MWA-560
C367	78 10%			CD15ED750J03	SX475	MWA-750
C368	.01		UK50-103		MAG5011	
C369	.01		UK50-103		MAG5011	
C370	.039 10%				M192P3939R8	192P3939R8
C401	.001		DD-102		GP210	10TS-D10
C402	.01		UK50-103		MAG5011	
C403	.01		UK50-103		MAG5011	
C404	100 10%			CD15FD101J03	SX310	MWA-101
C405	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C406	100 10%			CD15FD101J03	SX310	MWA-101
C407	15			CD15CD150J03		MWA-150
C408	150 10%			CD15FD151J03	SX315	MWA-151
C409	510 10%			CD15FD511J03	SX351	MWA-511
C410	22 N750			CD15ED220J03	SX422	MWA-220
C411	20			CD15ED200J03	SX420	MWA-200
C412	.01		UK50-103		MAG5011	
C414	13					
C415	23					
C505	.01		UK50-103		MAG5011	
C510	.005				M192P4729R8	192P4729R8
C511	.04 10%				M192P3939R8	192P3939R8
C512	.002		DD-202	GP2000	GP220	5GA-D20
C515	220 10%			CD15FD221J03	SX322	MWA-221
C516	.05					

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C518	47			CD15ED470J03	SX447	MWA-470
C520	.05 10%					
C523	.04 10%					
C524	.01		UK50-103		M192P3939R8	192P3939R8
C525	.01		UK50-103		MAG5011	
C526	.01		UK50-103		MAG5011	
C527	.039 10%				M192P3939R8	192P3939R8
C528	.001		DD-102		GP210	10TS-D10
C601	.01		UK50-103		MAG5011	
C602	.01		UK50-103		MAG5011	
C603	.01		UK50-103		MAG5011	
C607	.033				M192P3339R8	192P3339R8
C609	.04				M192P3939R8	192P3939R8
C614	.01		UK50-103		MAG5011	
C615	.01		UK50-103		MAG5011	
C620	.01		UK50-103		MAG5011	
C621	.01		UK50-103		MAG5011	
C701	.001					
C706	.01		UK50-103		MAG5011	

TRAM MODEL XLS

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.	MALLORY PART No.	TRW PART No.
R129	RF Meter	100K		T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
R130	ALC	10K		T-10K	C-103	MTC14L1	X201R103B
R228	Xmit Clarifier Range	10K		T-10K	C-103	MTC14L1	X201R103B
R229	Clarifier	10K					
R361	AGC	5000		T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
R363	S Meter	10K		T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
R364	SSB Meter	50K		T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
R414	Carrier Balance	500		T-500	C-501	MTC52L1	X201R501B
R519	Squelch	10K					
R520	Squelch Range	10K		T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
R521	Volume/Switch	10K					
R616	AMC	1000		T-1000 (2)	C-102 (2)	MTC13L1 (2)	X201R102B (2)
R617	Mic Gain	10K		T-10K	C-103	MTC14L1	X201R103B

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L101	TVI Trap (54MHz)				
L102	RF Choke (.22uH)				
L103	RF Choke (150uH)				
L104	RF Choke (150uH)				
L105	RF Choke				
L106	Xmit Load				
L107	RF Choke (.27uH)				
L108	Xmit Driver (27MHz)				
L109	RF Choke (.65uH)				
L110	Xmit Amp (27MHz)				
L111	RF Choke (.65uH)				
L112	RF Choke (1.2uH)				
L201	RF Choke (5.5uH)				
L202	RF Choke (.22uH)				
L203	RF Choke (470uH)				
L204	RF Choke (470uH)				
L301	RF Choke (470uH)				
L302	RF Choke				
L303	RF Choke (22uH)				
L304	RF Choke (470uH)				
L305	RF Choke (470uH)				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF) (cont)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L401	RF Choke (150uH)				
L402	RF Choke (22uH)				
L601	RF Choke				
T101	Xmit Buffer (27MHz)		C042D		
T102	Xmit Mixer (27MHz)		C182Z		
T103	Xmit Mixer (27MHz)		C181Z		
T201	USB Synth (34MHz)		Z287AT		
T202	Harmonic Suppressor (34MHz)		Z286KT		
T203	USB Synth Mixer (34MHz)		Z285IT		
T204	Synth Amp (19MHz)		Z284A		
T205	Synth Mixer (19MHz)		Z188AT		
T206	Synth Mixer (19MHz)		Z282IT		
T301	Rec Ant (27MHz)		C200ZT		
T302	Rec RF (27MHz)		C993Z		
T303	Rec Mixer (7.8MHz)		S-183AT		
T304	Rec Mixer (7.8MHz)		S-183AT		
T305	IF (7.8MHz)		S-183AT		
T306	IF (7.8MHz)		S-183AT		
T307	IF (7.8MHz)		S-190AT		
T308	Noise Amp (25MHz)		S-183AT		
T309	Noise Amp (25MHz)		S-183AT		
T401	Balance Mod (7.8MHz)		S-111DT		
T402	Xmit Osc (15MHz)		Z1761T		
T403	Harmonic Suppressor (15MHz)		Z1761T		

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	1.89A	.2	2.2mH	K-18 (1)	TR555		(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
LS501	3" PM 8 Ohms		30A05ZBR	

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
F501	1.5 Amp Fast Acting			GJV1-1/2		31801.5		
F701	4 Amp Fast Acting			AGC4	HDJ	312004	150145	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC		18-032	18-034	18-010	18-092	2	1	3	NC	NC	4

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
Y201	11.700		ACA32M11.700	1,2,3,4	Y207	7.4625		ACB32M7.4625	1,5,9,13,17,21
Y202	11.750		ACA32M11.750	5,6,7,8	Y208	7.4725		ACB32M7.4725	2,6,10,14,18,22
Y203	11.800		ACA32M11.800	9,10,11,12	Y209	7.4825		ACB32M7.4825	3,7,11,15,19
Y204	11.850		ACA32M11.850	13,14,15,16	Y210	7.5025		ACB32M7.5025	4,8,12,16,20,23
Y205	11.900		ACA32M11.900	17,18,19,20	Y401	7.8025		ACC32W7.8025	Xmit Osc
Y206	11.950		ACA32M11.950	21,22,23					

TRAM MODEL XLS

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF301	Filter		7.8MHz (FX-07800C)
M1	Meter		S/RF
L701	Relay		Xmit/Rec 12VDC
S1	Switch		Channel Selector
S2	Switch		LSB/USB/AM
S3	Switch		PA/CB
S4	Switch		NB

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 13 Colors
	8524 (Stranded) Available in 13 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
Bonding Strap	Use BELDEN No. 8661 (3/8 inch)

INDEX

THIS INDEX LISTS ALL RADIOS APPEARING IN
"CITIZENS BAND MANUALS" AND "PHOTOFACT CB RADIO SERIES"

KEY (EP) EARLY PRODUCTION (LP) LATE PRODUCTION (REV) REVISED

AIRCRAFT	VOL.	BROWNING (CONT.)	VOL.	COURIER (CONT.)	VOL.	FANON	VOL.	GRANADA	VOL.
JE321	15	Eaglette	20	CCT-3	37	CHB-3	35	CB-6	107
23-02	38	Eaglette 2	29	CCT-4	36	CHB-4	37	HALLICRAFTERS	
AIRLINE		Golden Eagle Mark III	79	Centurion	52	Fanfare 100	54	BC-8	10
		LTD	66	Centurion Plus		Fanfare 120	97	CB-1	1
		Mark II Series B,		(Pg. 5)	52	Fanfare 700	53	CB-3	3
GAS-587	4	SSB-115	39	Chief 23	35	Fanfare 880	73	CB-3A	5
ALARON		R-27, S-23	10	Citation	34	PCB-9	4	CB-4 (Littlefone)	3
		SST	37	Classic	25	IC-3000	24	CB-5A	5
		SST (LP)		Classic II	30	IC-5000	25	CB-5 Mark II, HA-14,	
B-1025	105	(Ser. No. T-50000		Classic III	67	L-1000	18	P-5-120	6
B-1050	106	6	81	Comet 23	48	L-2000	17	CB-7	7
B-1100	108	69R, 69T (Golden		Conqueror	38	SFT-400	35	CB-8	10
B-1150(HA-23C)	107	Eagle Mark II)	27	Conqueror II	73	SFT-500	35	CB-8	8
ALLIED		CADRE		Courier Clipper 23	26	SFT-600	31	CB-10	9
				Courier Royale	14	SFT-800A	34	CB-12	11
A-2507 (17B6790X)	20			Courier TR-5	16	SFT-900		CB-14/-17	12
A-2530 (17B6825X)	19	C-75	11	Courier TR-235	13	(Guardman)	37	CB-19	13
A-2533 (17B6440X)	22	500/C	3	Courier IM, 23	8	T-600	96	CB-20	14
A-2543 (17-9801S)	21	510	4	Courier 23 Plus	18	T-606	41	CB-21	20
A-2544 (17B9802S)	23	510A, 515	6	Cruiser	79	T-700	93	CB-24	22
A-2545 (17B9803S)	18	525 (500-1, 520)	7	CWT-30	29	T-707	43	PS-20	20
A-2559 (21B5559U)	34	CAPITOL		CWT-40	27	T-800	101		
A-2561 (21B5561)	35			CWT-50	30	T-808	38		
A-2564 (17A6966U)	29	ND-309	3	Fleet Courier, 30-B	9	T-909	40	HALLMARK	
A-2567 (17B6435X)	22			Gladiator	49	T-1000	45	512	5
A-2568 (17A696SU)	29	CHANNEL MASTER		Gladiator Plus		FIELDMASTER		1250B	10
A-2569 (17C6469U)	24			(Pg. 21)	49	MF-1001	60	HAMMARLUND	
ALLSTATE		6423	40	Ranger 23	33	Micro Mini 3	55	CB-SIX (CB-6)	7
		6553	9	Rebel - 23+	54	Micro Mini 6	58	HANDIC	
832.62270	7	6554	13	Spartan Plus		Micro Mini 23	56	21	105
893.62910/11/21/31/41. 6		CITI-FONE		(Pg. 5)	56	TR-18M	57	23	105
				Spartan SSB	56	FULCOMM		43C	100
AMERICAN ELECTRONICS				Traveller (ML-100)	24	2301/02	90	65C	108
76-501 (Spirit)	95	CD-5/6/-5/12	1	Traveller II	31	GEM MARINE		HEATHKIT (HEATH)	
76-551 (Buccaneer)	96	CD-5A/6, CD-5A/12	9			GB-11935	91	CB-1	1
76-601 (Freedom)	95	CD-6/6, CD-6/12	3	CRAIG		GR-11930	93	GRS-65A	14
AMPHENOL		CD11/6, CD11/12	12	4101	97	GEMTRONICS		GW-10A/D, GWW-10A/D	3
		II (1103-01)	15	4102	100	GT-23	90	GW-11A/-11D, GWW-11A/-	
C-75	12	SS	9	4103	98	GT-36	93	-11D	4
80	22	99/6, 99/12	12	4104	105	GT-2300	91	GW-12A/-12D, GWW-12A/-	
600, 625	11			4201	99	GT-2325	82	-12D	5
650	13	CLARICON				GENERAL ELECTRIC		GW-14, GWA-14-1, GWW-14, 11	
675	14	14-523	27	DEMCO		Y7050A	16	GW-14A, GWW-14A/14AS	29
725	15	15-200	16	CH-300	11	GENERAL RADIO & TELEPHONE		GW-21, GWW-21	4
750	19	15-410	14	Chalet, DMT-110	14	MC-6	7	GW-22A/-22D, GWW-22A/-	
777	18	15-500	23	Ravelle	11	Super MC-8	13	-22D	5
APELCO		15-600	33	Ravelle 23	15	Super MC-9	16	GWW-30	2
		30400 (Pirate)	79	Satellite CB-1A	7	Super MC-11/A	22	GW-31, GWW-31	4
AR-9	1	30600 (Privateer)	85	Satellite Deluxe	19	VS-6, VS-7	11	GW-32A, GWW-32A/D,	
AR-10	7	COBRA		Satellite M-10A,		GLOBE		GW-42, GWW-42	6
ARKAY		CAM-88	9	R-101A, T-110A,		CB-100	1	MW-34, MWW-34	8
SQ-9/-9W	2	CAM-89	58	VW-12-120	7	CB-100A	3	HY-GAIN	
ARVIN		V	13	Travelier (Series B) .	8	CB-200	2	623	71
		6	34			Globe Master 65-220	6	623A (Pg.5)	71
20Y33-19 (1.45501)	27	19	75	DUO COM		X-90 (Pocketphone)	1	670 (Hy-Range I)	63
20Y55-19 (1.45601)	29	19M(Sim.to Pg.5)	75	100	2	65-228		670A (Pg. 5)	63
AUDIOVOX		20	49	DYNASCAN		(President VIII)	7	671 (Hy-Range II)	63
		21	51	(See Cobra)		GM		671A (Pg. 5)	63
MCB-500	97	21X	108	ECHO		GM23B	92	672 (Hy-Range III)	65
MCB-1000	99	23, PAC-V	16	99'er (Pg. 51)	49	GM130	95	672A (Pg. 5)	65
AUTOMATIC		24	26	EICO		GM130A		673 (Hy-Range IV)	64
		25	33	712	13	(Sim. to Pg.47)	90	673A (Pg. 5)	64
MCB-6510	25	27	23	740	4	GM132		674 (Hy-Range V)	70
MCR-6450	17	132 (EP & LP)	54	760/61W/62/62W	2	(Sim. to Pg.5)	69	674A (Pg. 5)	70
PCR-6452	22	132A	73	770/W	3	994856	95	675 (Hy-Range VI)	64
PCR-6452	25	135 (EP & LP)	54	771W, 772W	4	995432	93	675A (Pg. 5)	64
TRC-6448	17	138/A	57	777	7	GONSET		ITT	
TRE-6500	25	139	59	779	9	G-11-3303/04/-05,		320	3
TRR-6454/A	17	880	47	779A	17	G-12 (3316), (3329) .	1	JCPenney	
BELTEK		CONCORD		7923 (Nova 23)	18	G-14 (3430), (3433) ..	3	981-6051	
				ELECTRONIC 2000		G-15 (3428), (3429) ..	4	(Golden Pinto)	28
Enduro 5 (W5396)	80	TG-132B	12	Contact CB-23CH	56			981-6075	
Enduro 23(W5398)	105	COURIER (E.C.I.)		ELECTROPHONIC				(Pinto SSB)	47
BENDIX				(See Ross/Electrophonic)				981-6200	51
		Cadet 23	46					981-6213 (981-0649)	82
CB-6/-12	2	Caravelle	38					981-6235 (981-0607)	100
BROWNING		Caravelle II	73					981-6240	
		CCT-2 W/CHB-3	35					(981-3445)	74
Brownie	80								