



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 13-895

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

ALL Tuneable Transformers and Coils

ALL Trimmer Caps

GC ELECTRONICS

#9440

#8290, 8868, 9087

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Frequency Counter	Any	CT7	7.8025MHz +5 -0Hz	Receiver in USB mode. Connect counter between TP6 and TP7.
RF Voltmeter	Any	T19		Receiver in USB mode. Connect voltmeter between TP6 and TP7. Adjust for maximum.
Frequency Counter	1	CT1	8.159MHz 8.1615MHz	Receiver in USB mode. Connect counter between TP4 and ground. Adjust for first frequency listed for each channel. With receiver in AM mode, check for second frequency listed. Repeat adjustment of first frequency if necessary
	5	CT2	8.209MHz 8.2115MHz	
	9	CT3	8.259MHz 8.2615MHz	
	13	CT4	8.309MHz 8.3115MHz	
	17	CT5	8.359MHz 8.3615MHz	
	21	CT6	8.409MHz 8.4115MHz	
	1	VR6	34.7675MHz	
	2		34.7775MHz	
	3		34.7875MHz	
	4		34.8075MHz	
				Receiver in USB mode. Connect counter between TP5 and ground. Set VR5 and VR4 to mid-range. Adjust VR6 for correct frequency on Channel 1. Check other channels for listed frequency, repeat adjustment on Channel 1 if necessary.

MIDLAND MODEL 13-895

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

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5CZ258

SYNTHESIZER(cont)

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Frequency Counter	1		19.1625MHz	Receiver in LSB mode. Same as adjustment for VR6 above to check correct frequency.
	2		19.1725MHz	
	3		19.1825MHz	
	4		19.2025MHz	
RF Voltmeter	15	T14,T15, T16,T17, T18		Receiver to LSB mode. Voltmeter between TP5 and ground. Adjust for maximum.
	15	T7,T8,T9, T10,T11, T12,T13		Receiver to USB mode. Voltmeter between TP5 to ground. Adjust for maximum.

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 14-volt DC input.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 0.5uV	13	T6,T5, T4,T3, T21,T1	Set mode switch to USB. Set clarifier to mid-range. Set NB to off. Set RF gain maximum clockwise. Adjust for maximum.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
These adjustments made with 14-volt DC input.
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 50,000uV.	13	VR7	Set mode switch to USB. Adjust volume control to obtain 0 db. Decrease generator to 50uV. Adjust so that signal does not drop more than 10 db.
RF GAIN RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz, @ 30% modulation, output 0.3uV.	13	VR1	Set RF gain maximum clockwise. Set volume control for 0 db output. Disconnect generator. Adjust so that output drops 10 db or more.
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1000uV.	13	VR8	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	VR3	Set mode switch to USB. Adjust for "S9" on "S" meter.

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

AM

INDICATOR	ADJUST	REMARKS
TVI TRAP TV (Ch. 2)	L5	Mode switch to AM. Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Connect 0-1500 DC milliammeter between L9 and L12.	L8	Adjust for 5 watts (maximum).

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

SSB

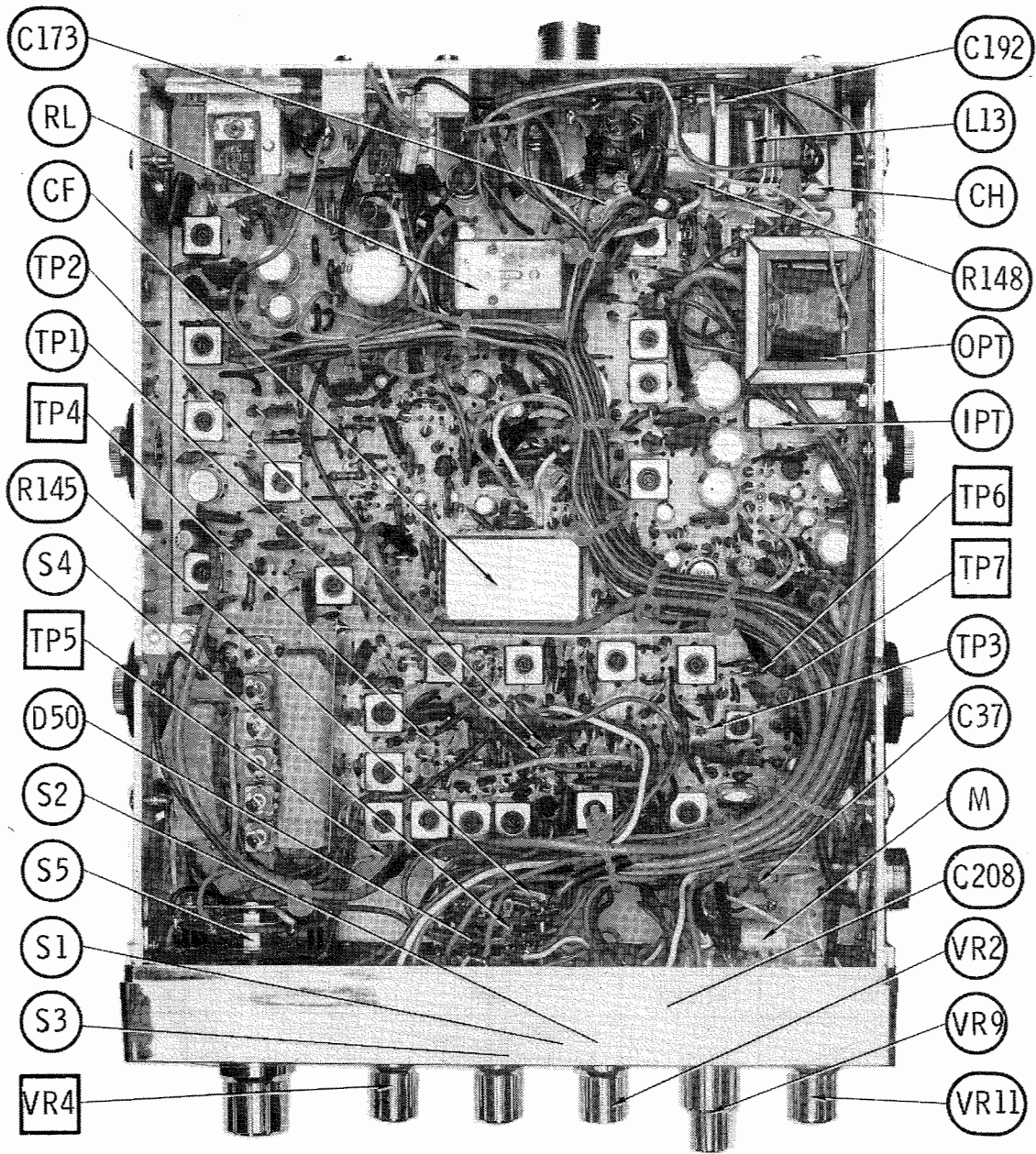
INDICATOR	ADJUST	REMARKS
CARRIER BALANCE Connect oscilloscope to antenna jack.	VR10	Short mic input. Set mode switch to LSB or USB. Key transmitter and adjust for MINIMUM on scope.
FINAL OUTPUT POWER RF Wattmeter	VR14	Inject a 4mV two-tone generator to mic input. Key transmitter. Adjust for less than 4-watts P.E.P.

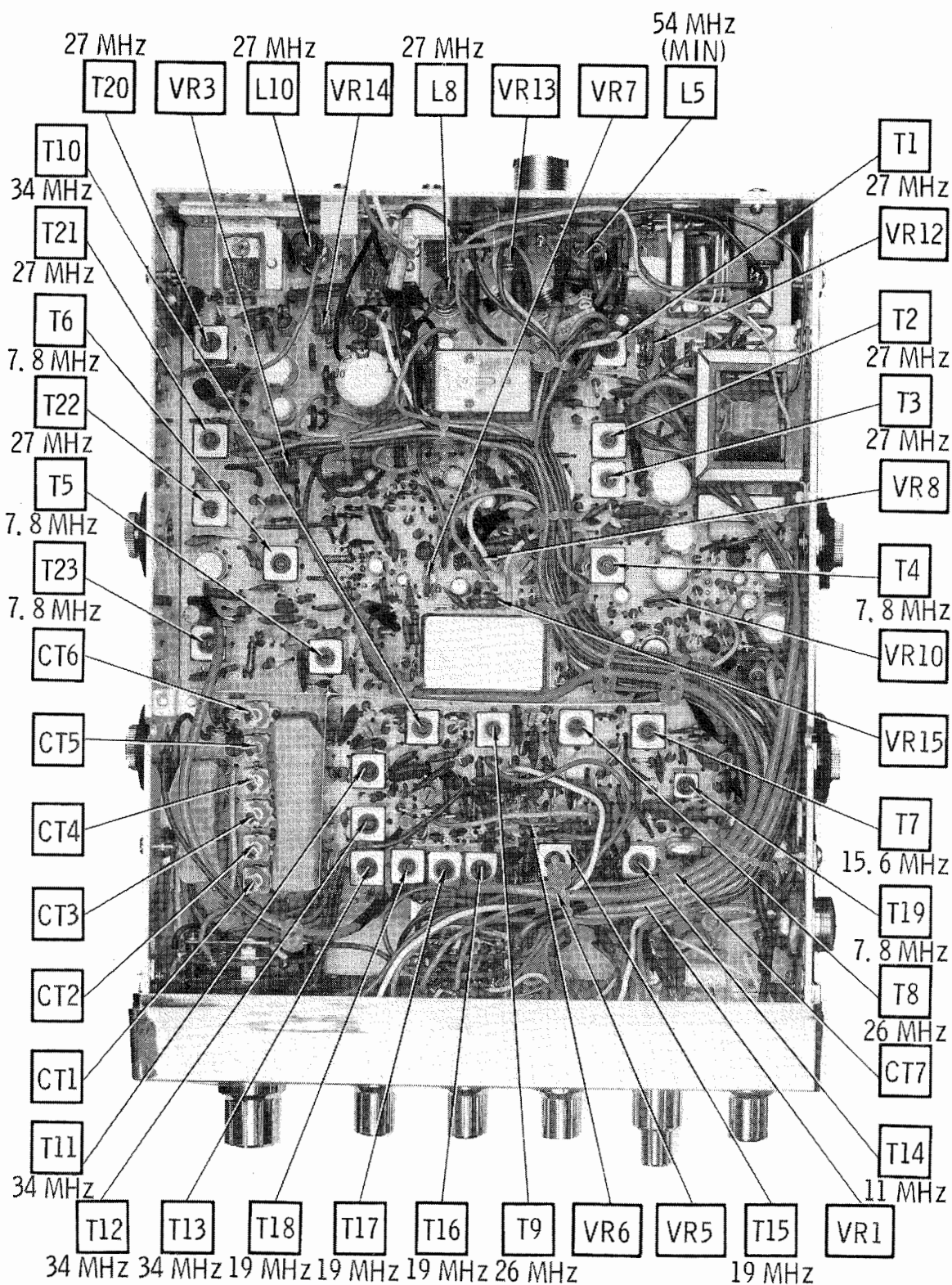
MIDLAND MODEL 13-895

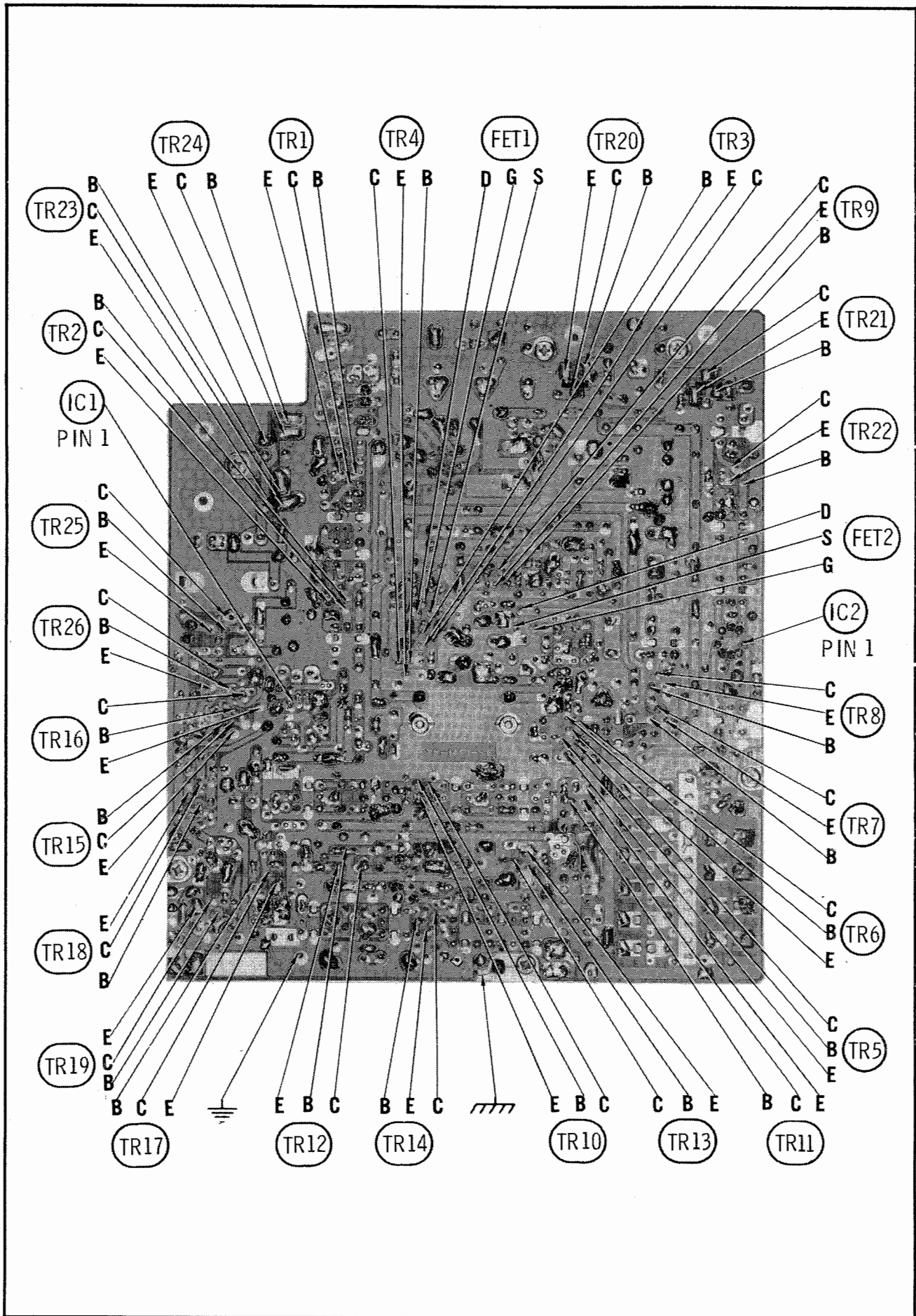
TRANSMITTER ADJUSTMENTS

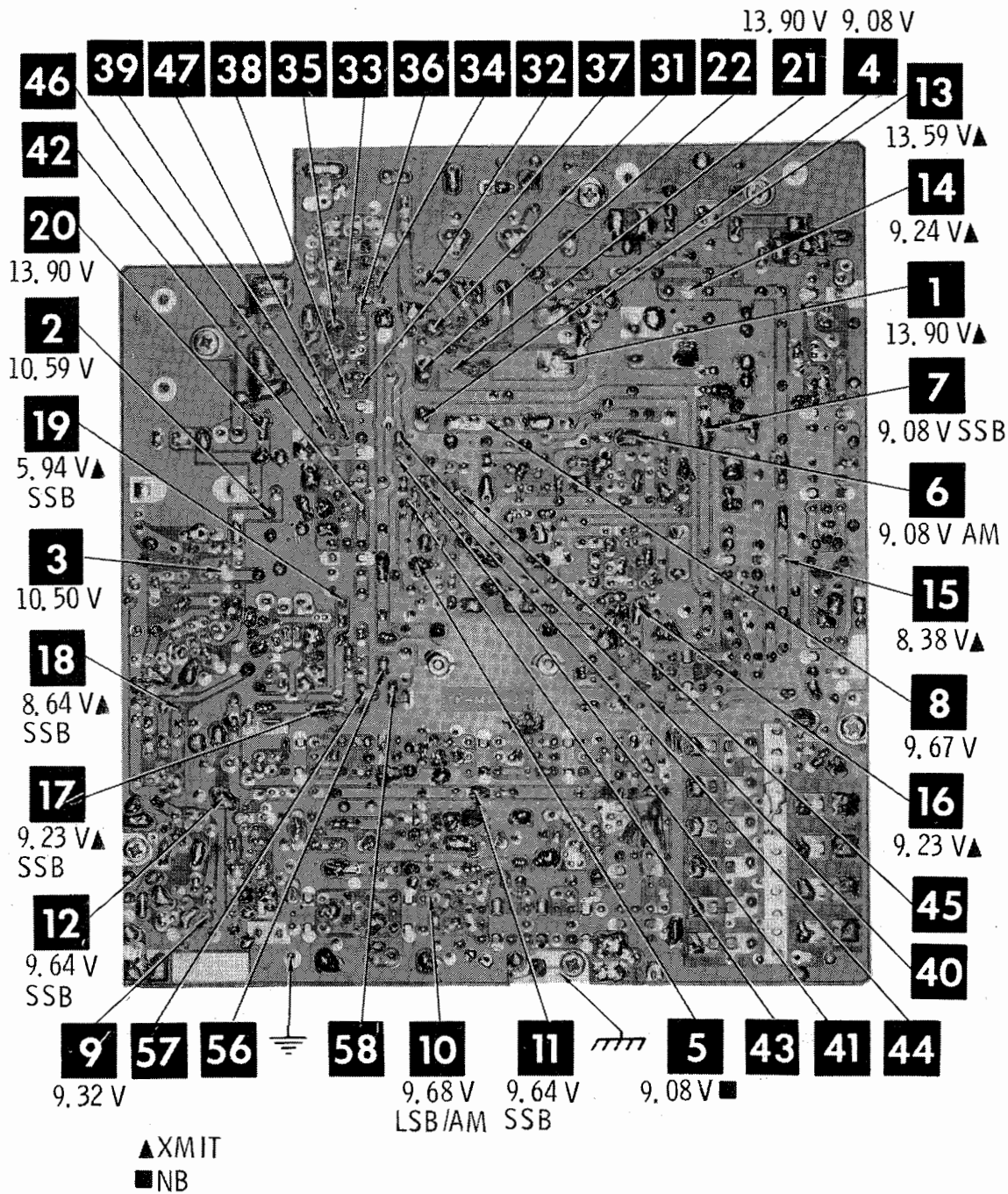
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

INDICATOR	ADJUST	REMARKS
ALC RF Wattmeter	VR15	Set mode switch to LSB. Inject a 1000Hz 50mV audio signal at mic input. Key transmitter. Adjust for 12.5 watts.
AMC Modulation Meter connect to antenna jack.	VR12	Set mode switch to AM. Inject a 1000Hz 40mV audio signal at mic input. Key transmitter. Adjust for 80% modulation maximum.
RF PANEL METER RF Wattmeter	VR13	Set mode switch to AM. Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.
VOLTAGE REGULATOR DC Voltmeter connected to CH and ground.	VR17	Adjust VR17 for 14V DC at junction of L13 and CH. Key transmitter. Voltage should not vary.

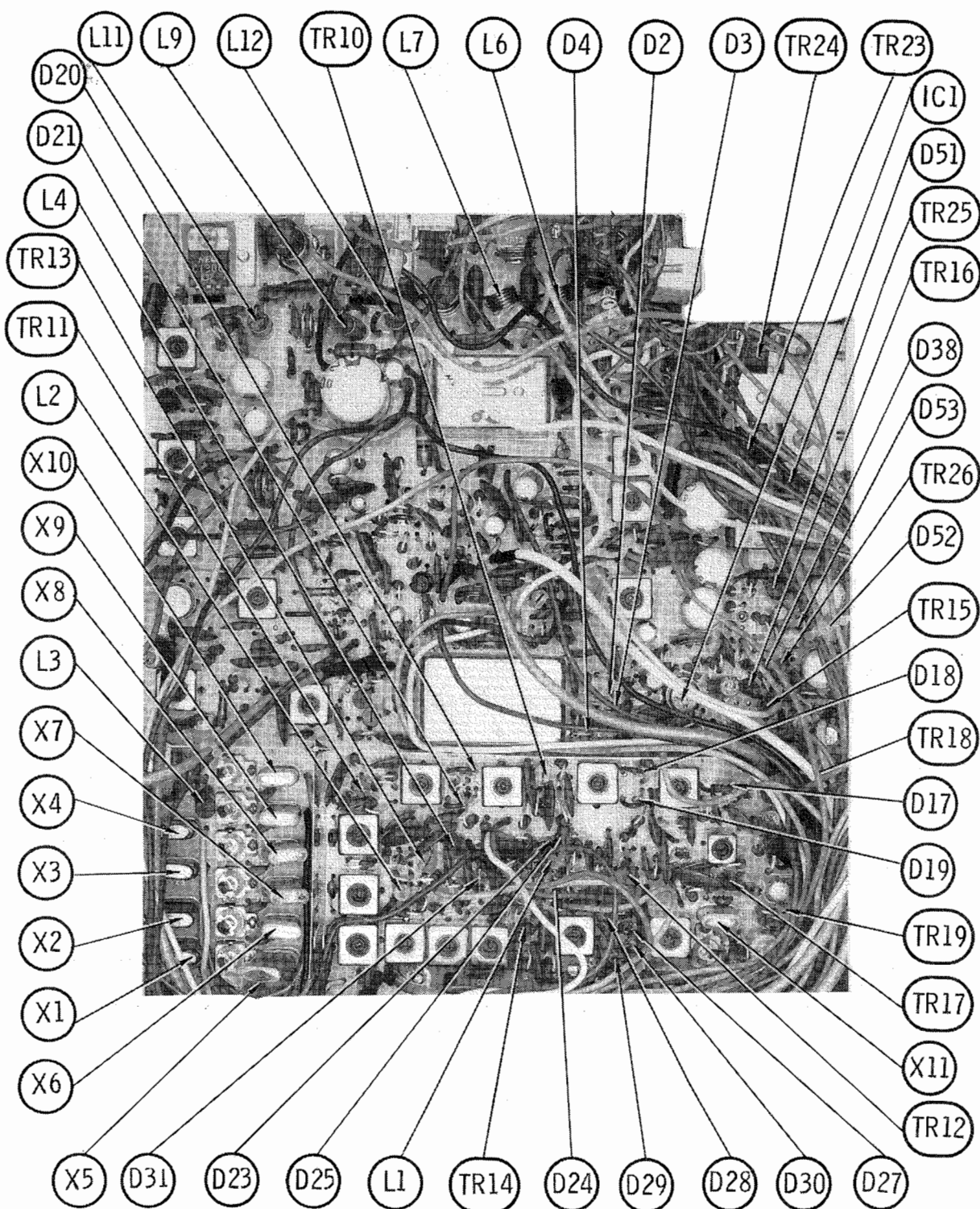


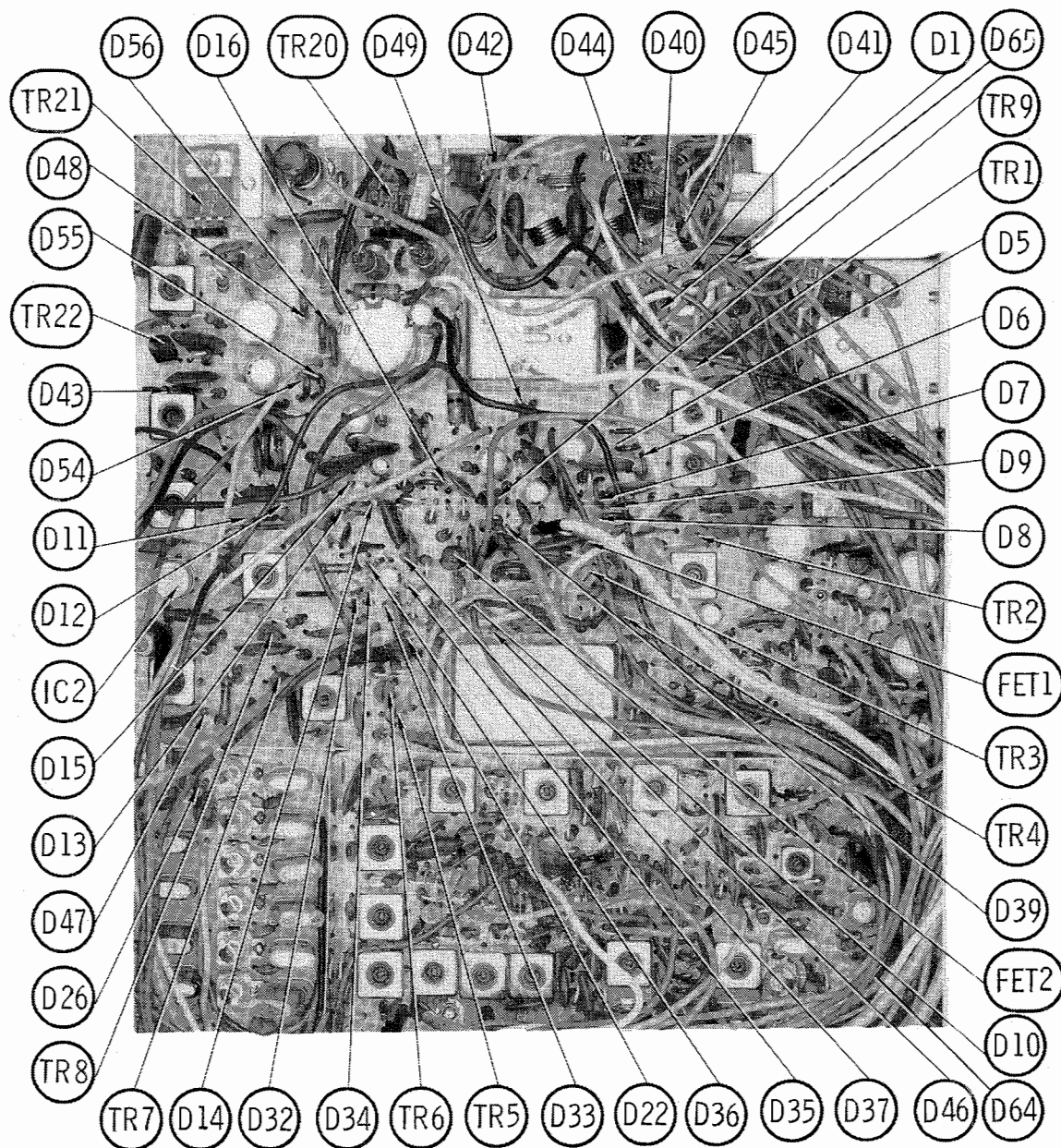


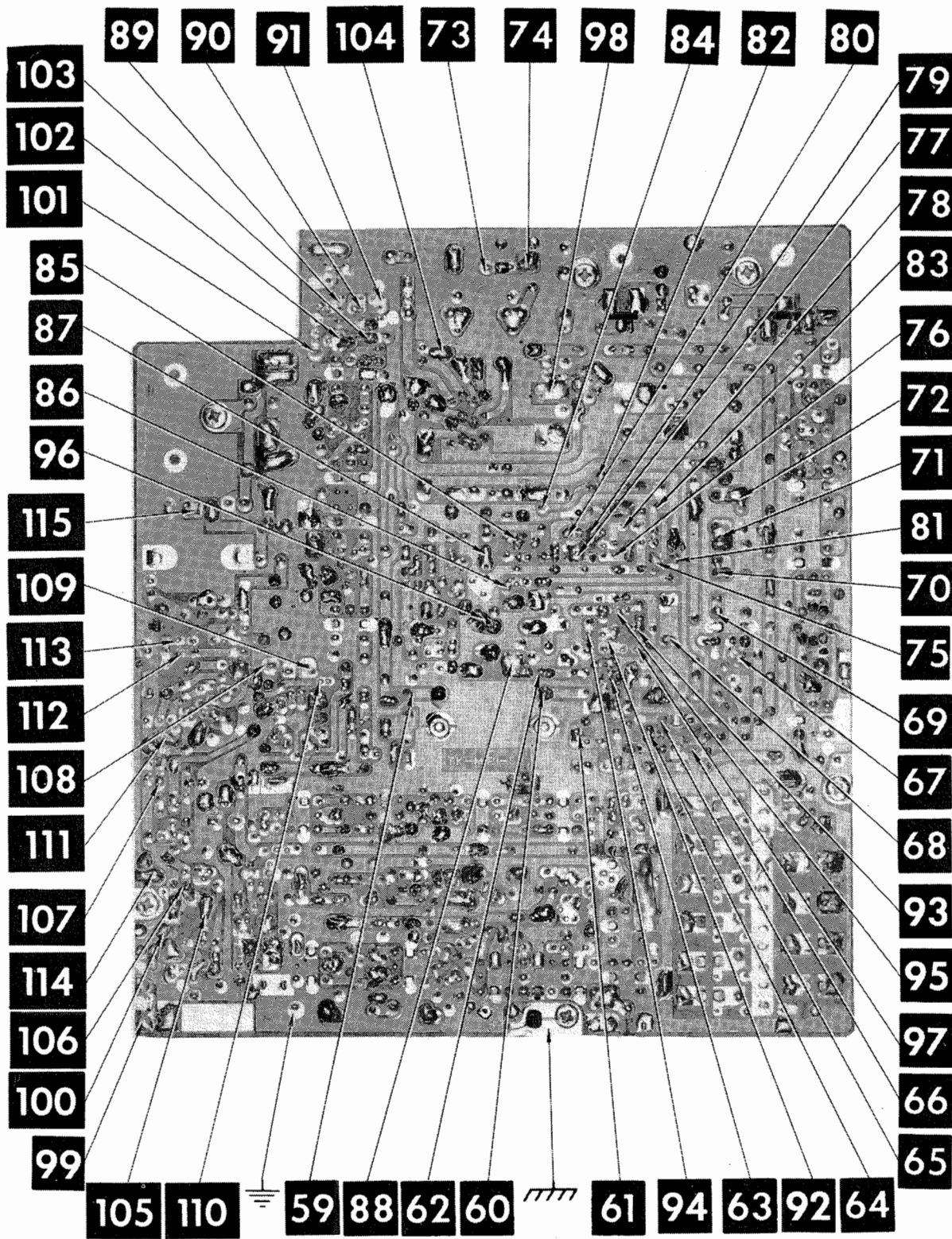




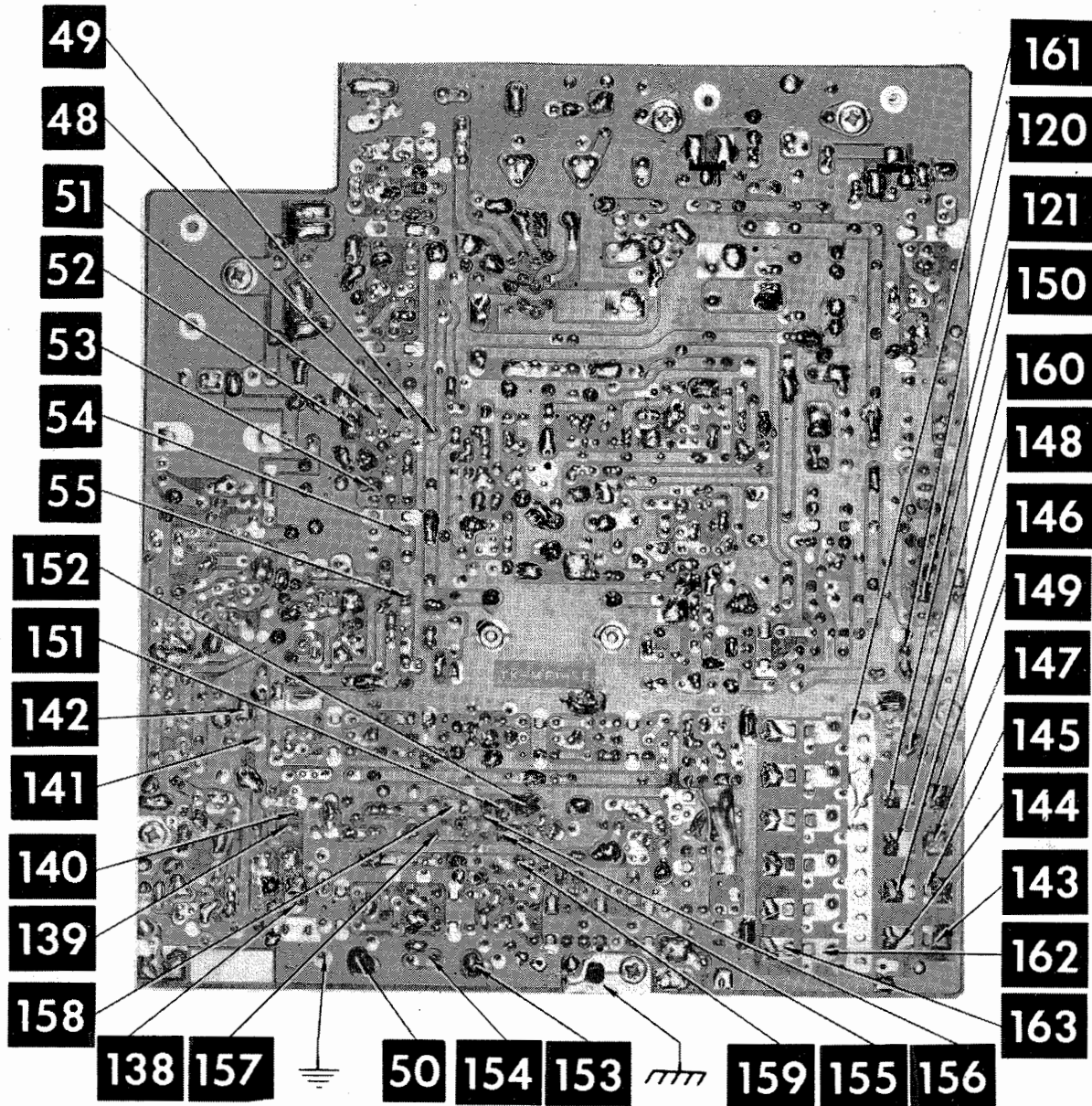
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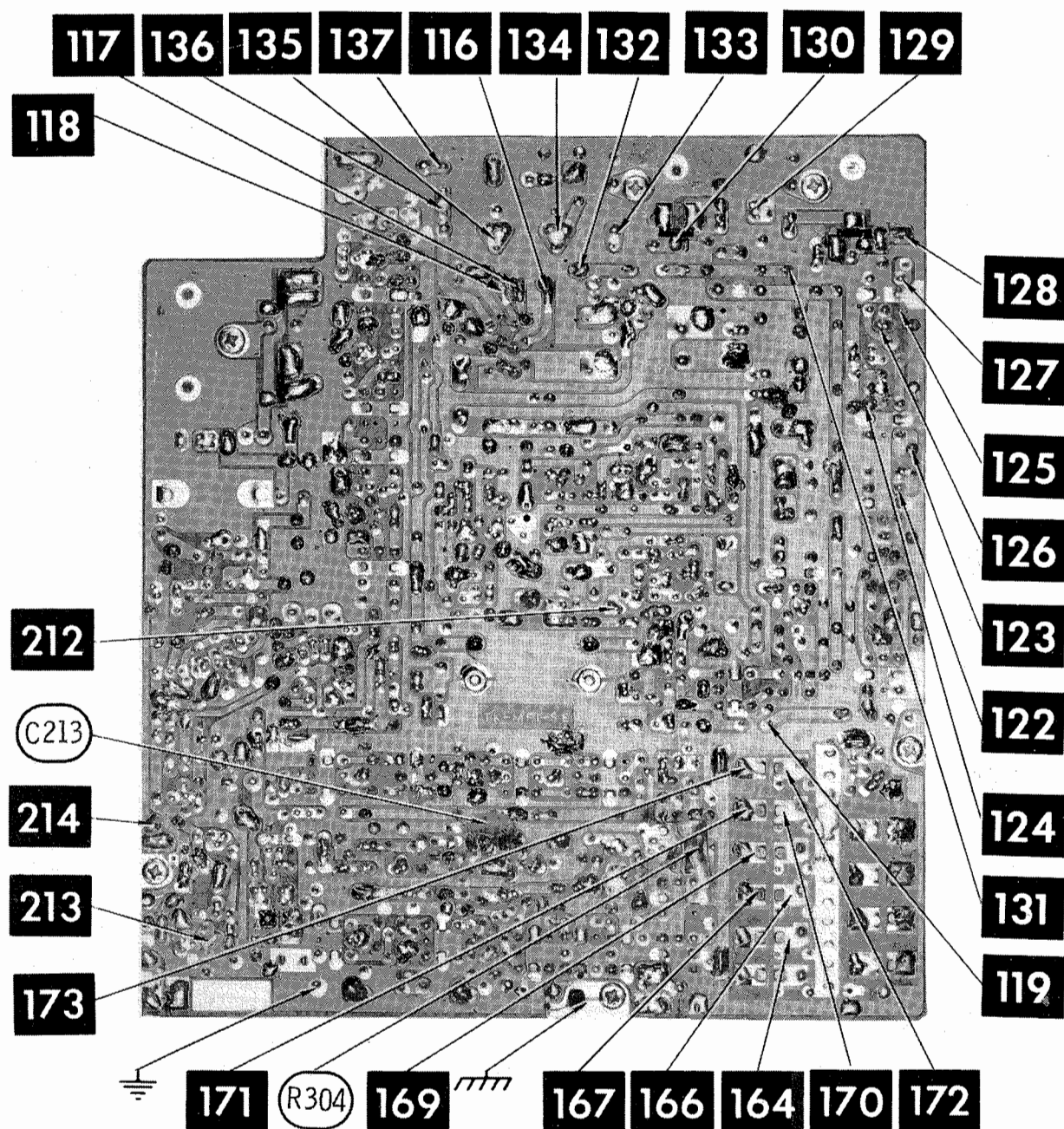




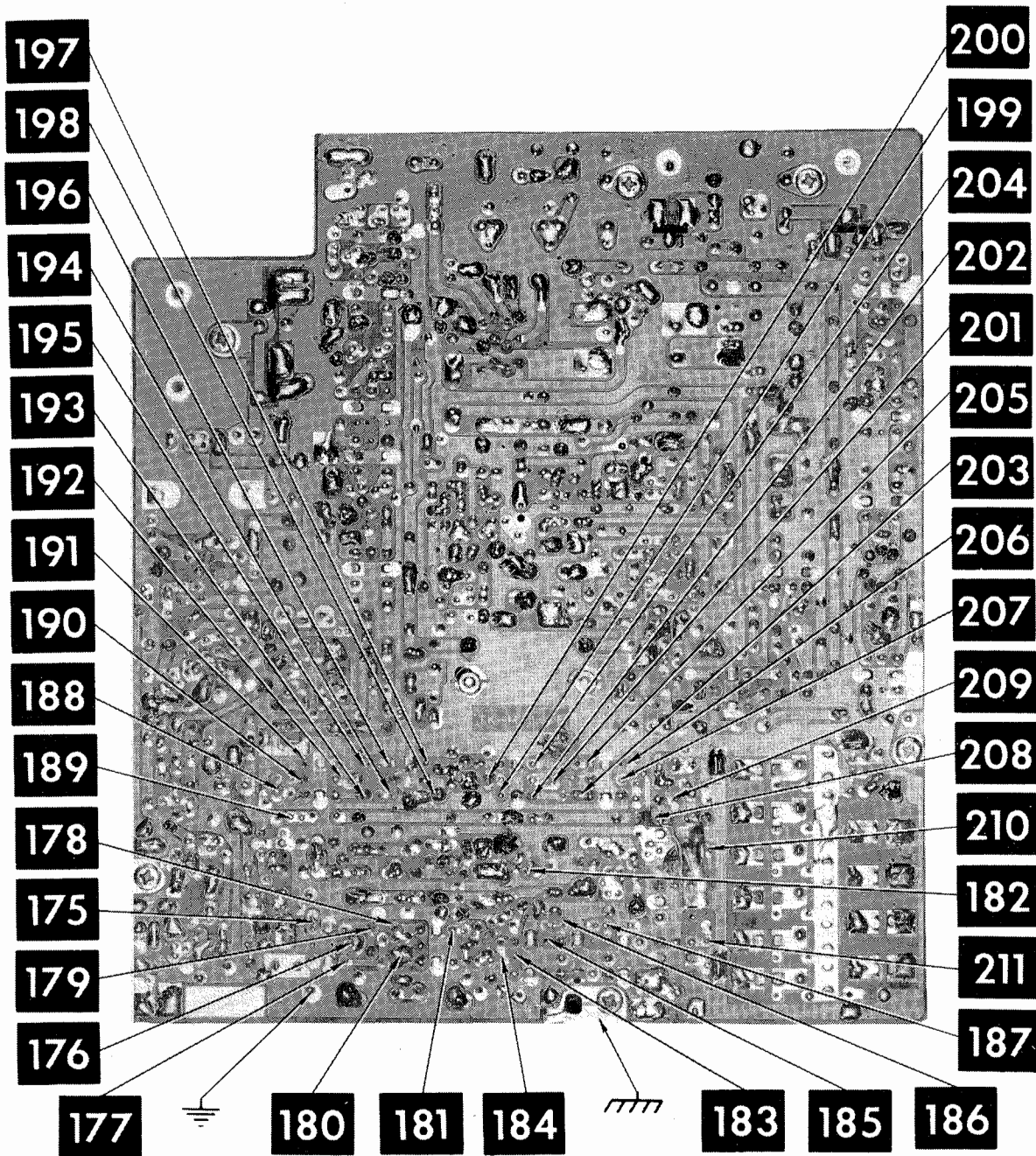


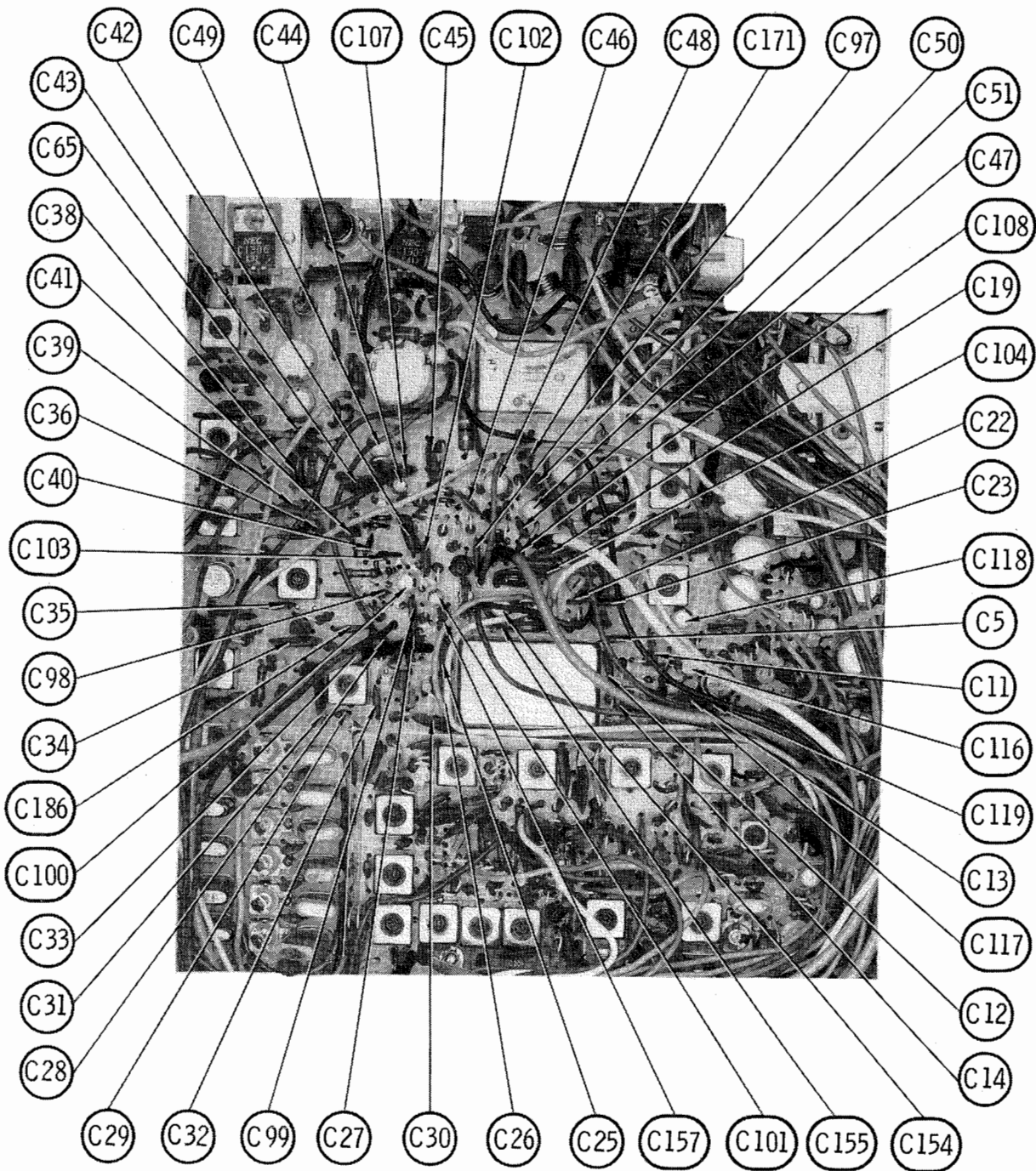
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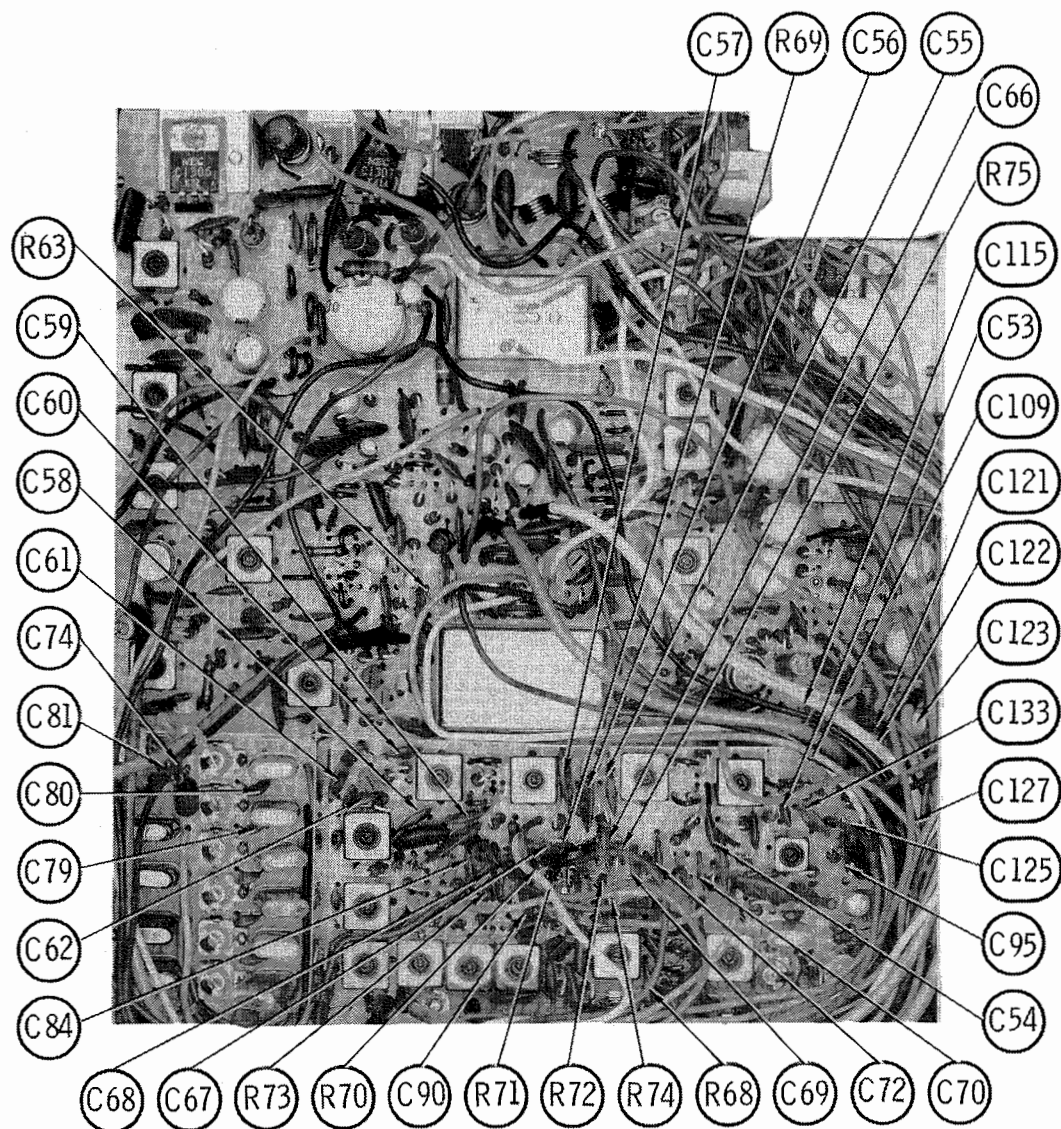


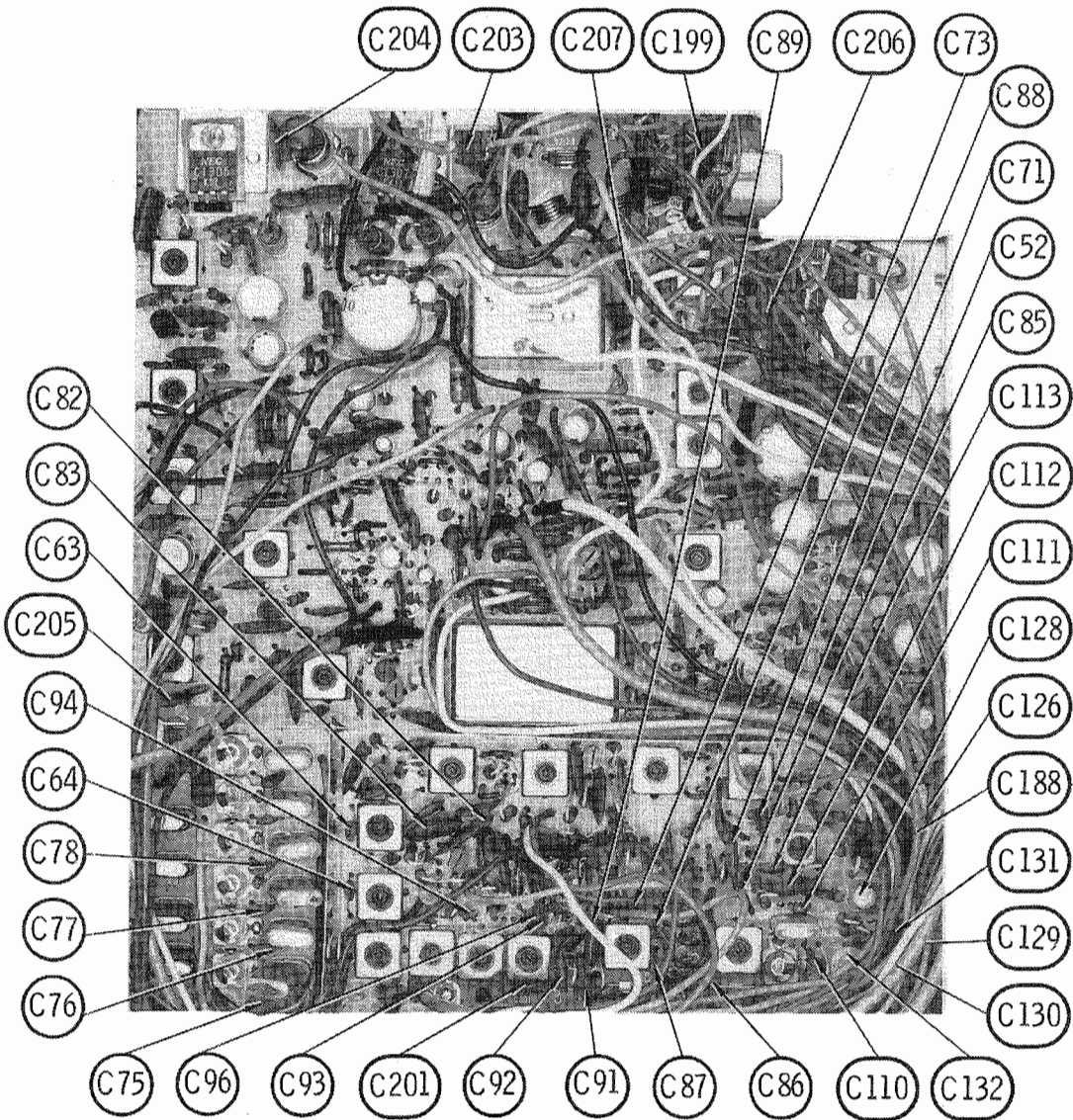


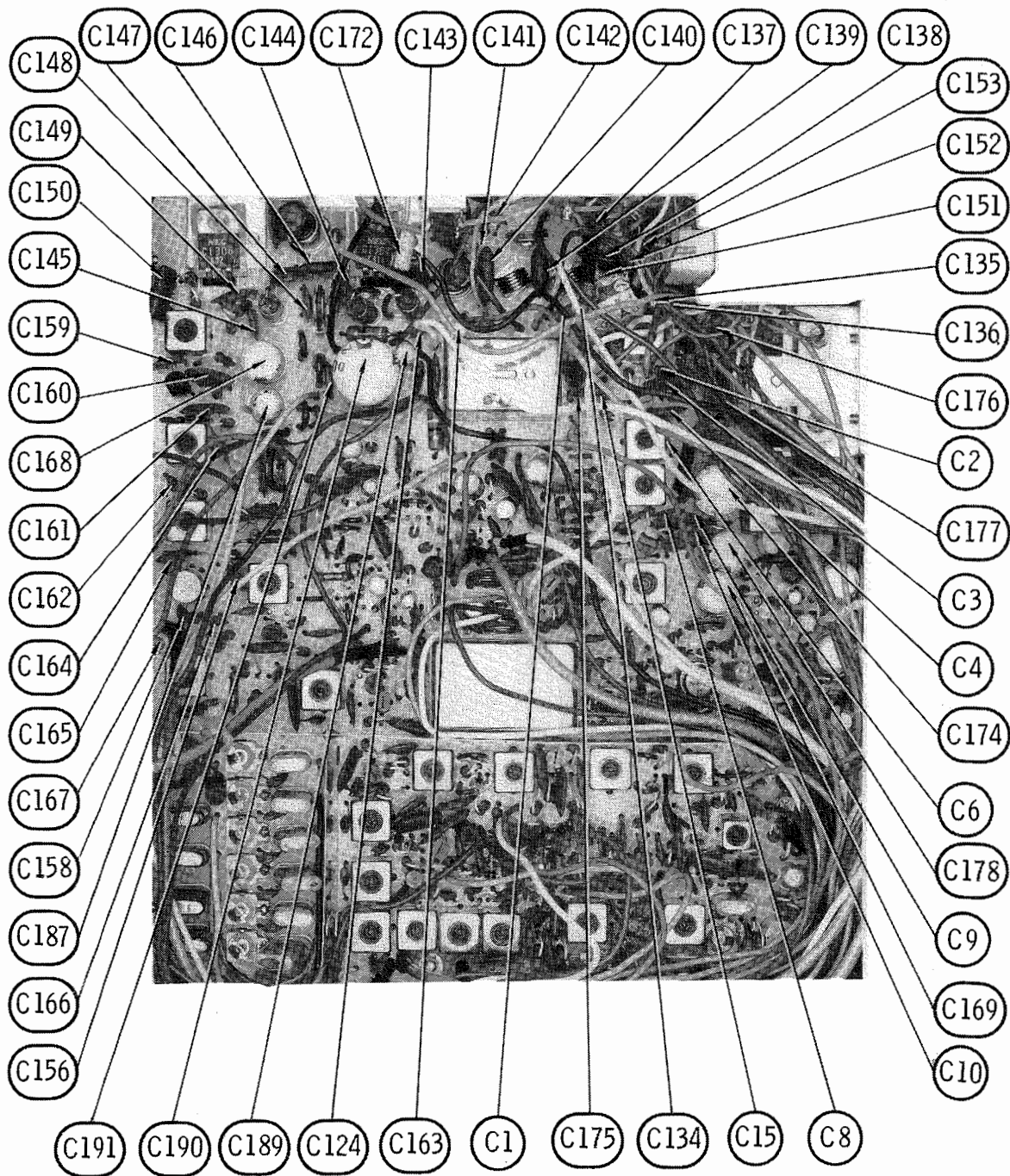
MIDLAND MODEL 13-895



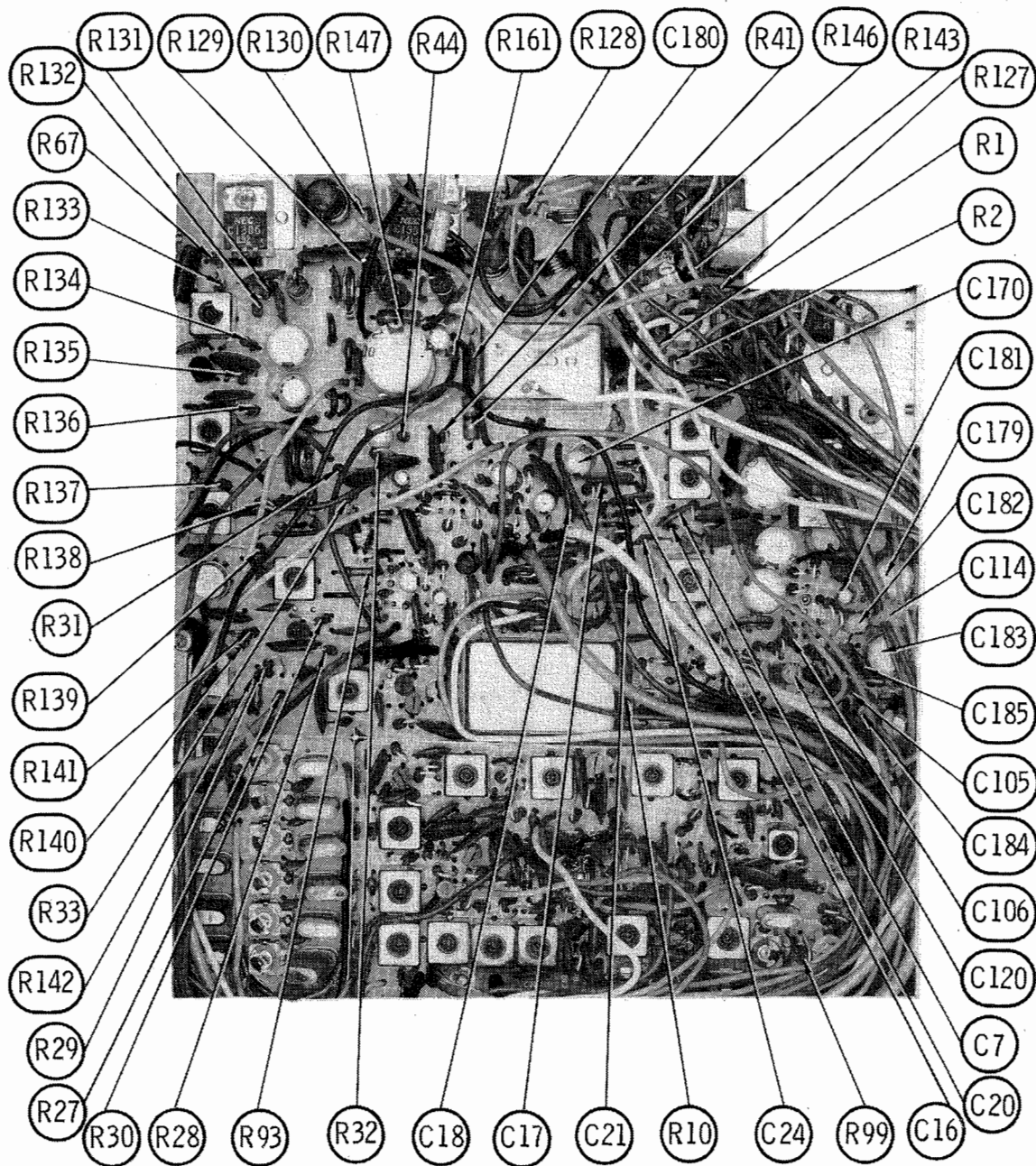


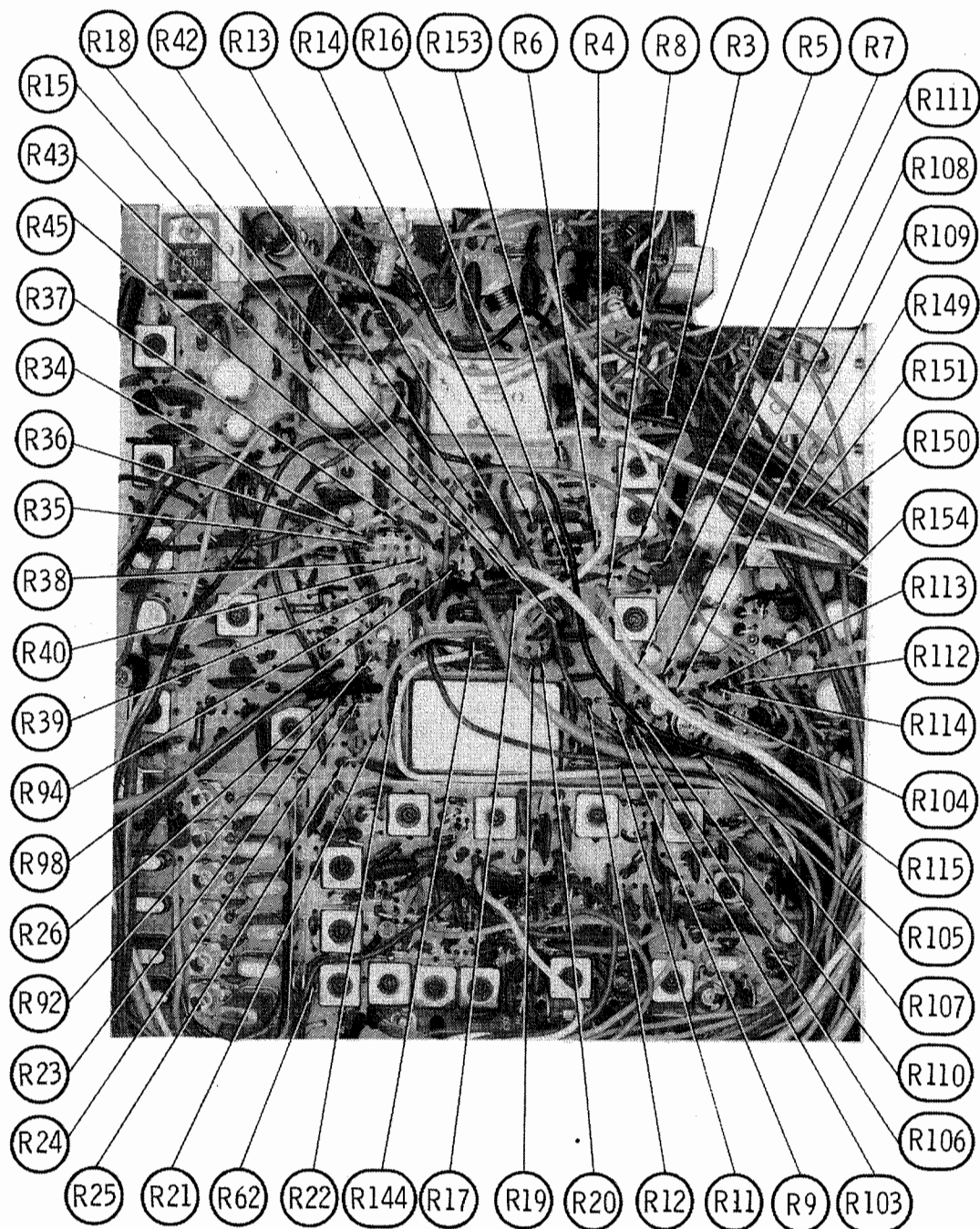


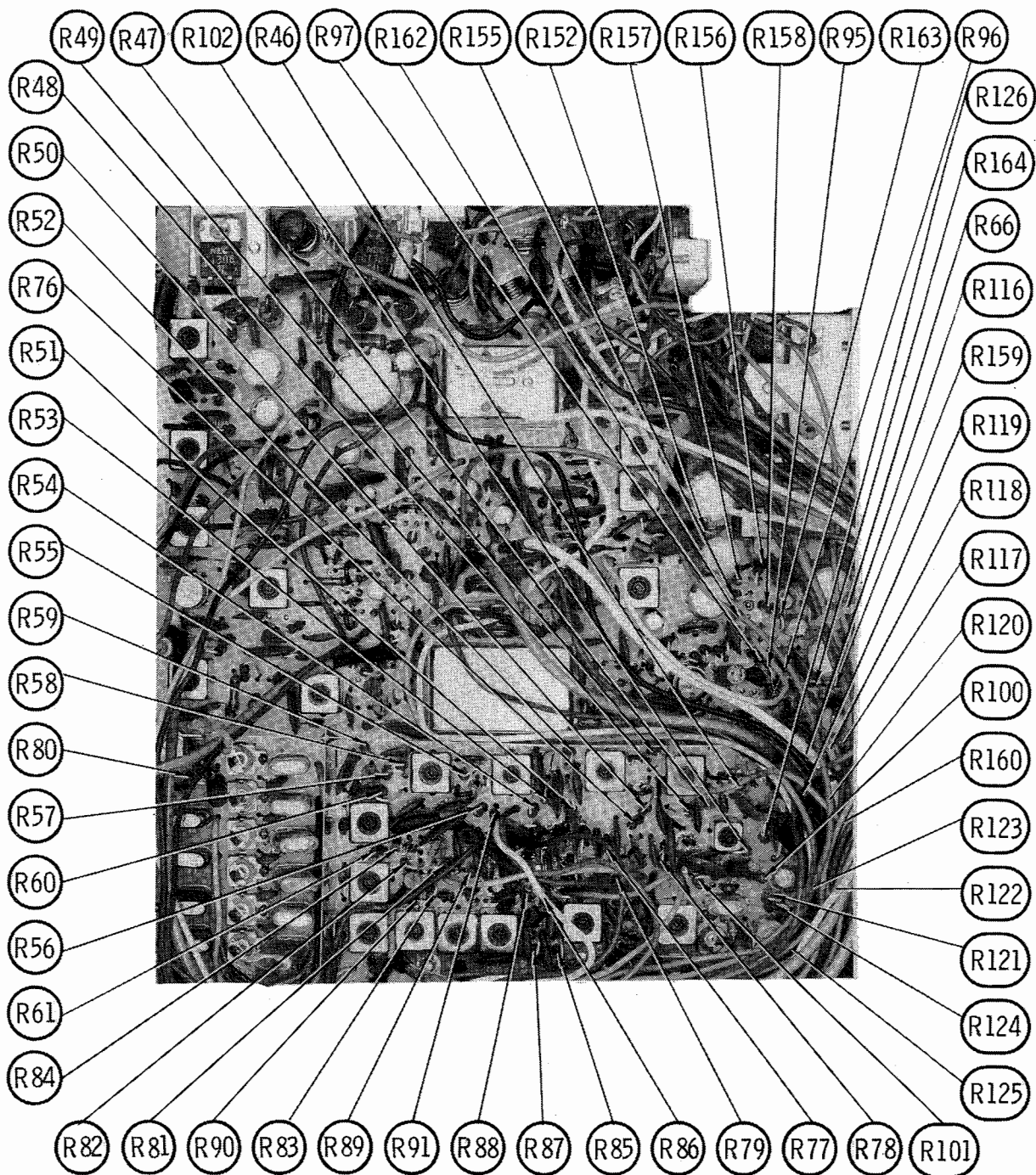




MIDLAND MODEL 13-895







PARTS LIST AND DESCRIPTION

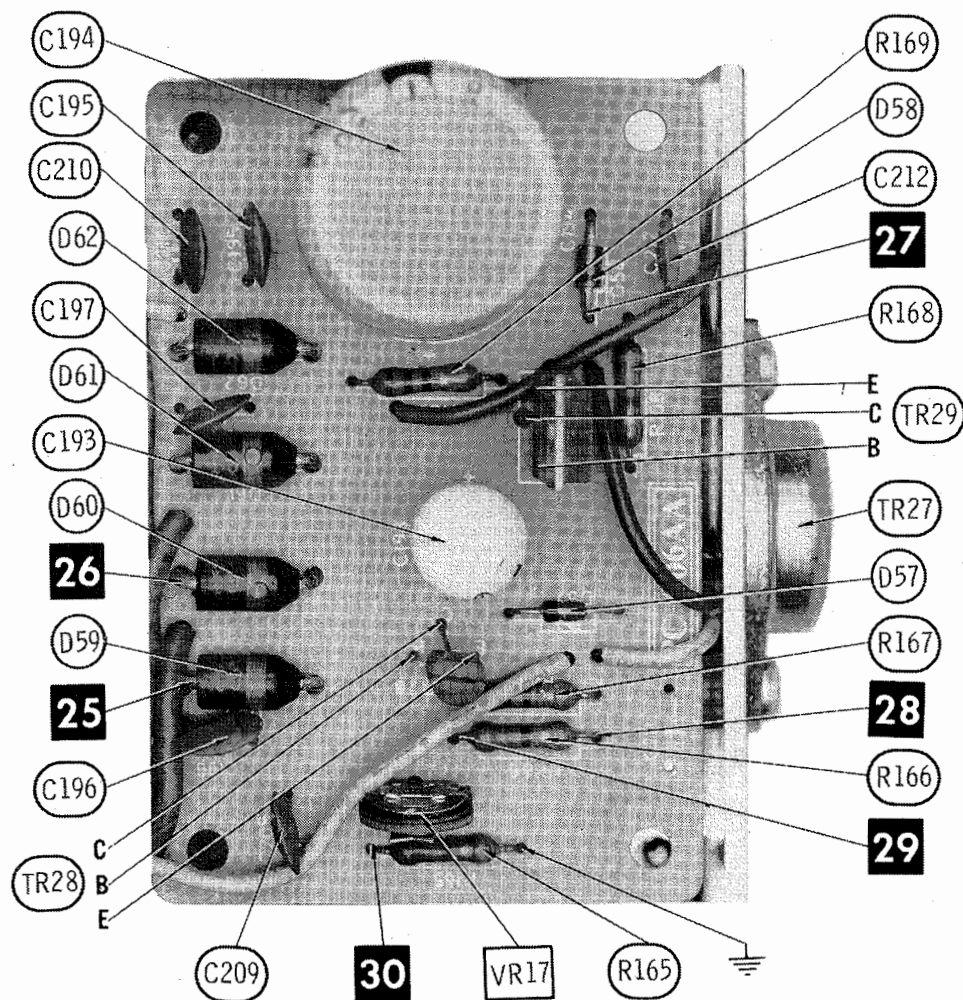
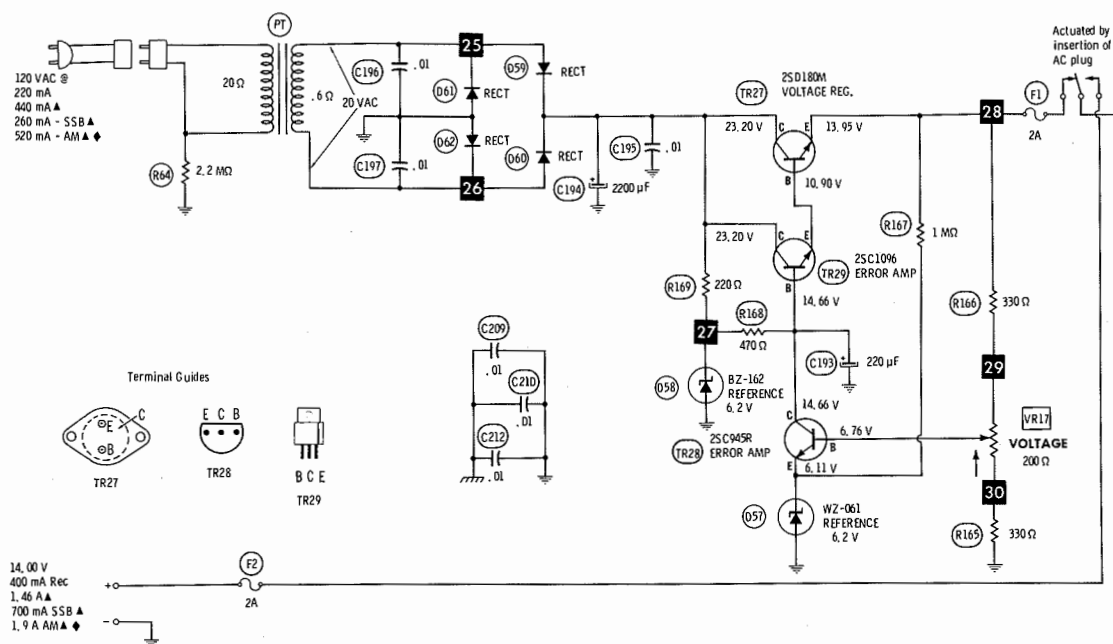
(When ordering parts, state Model, Part Number, and Description.)

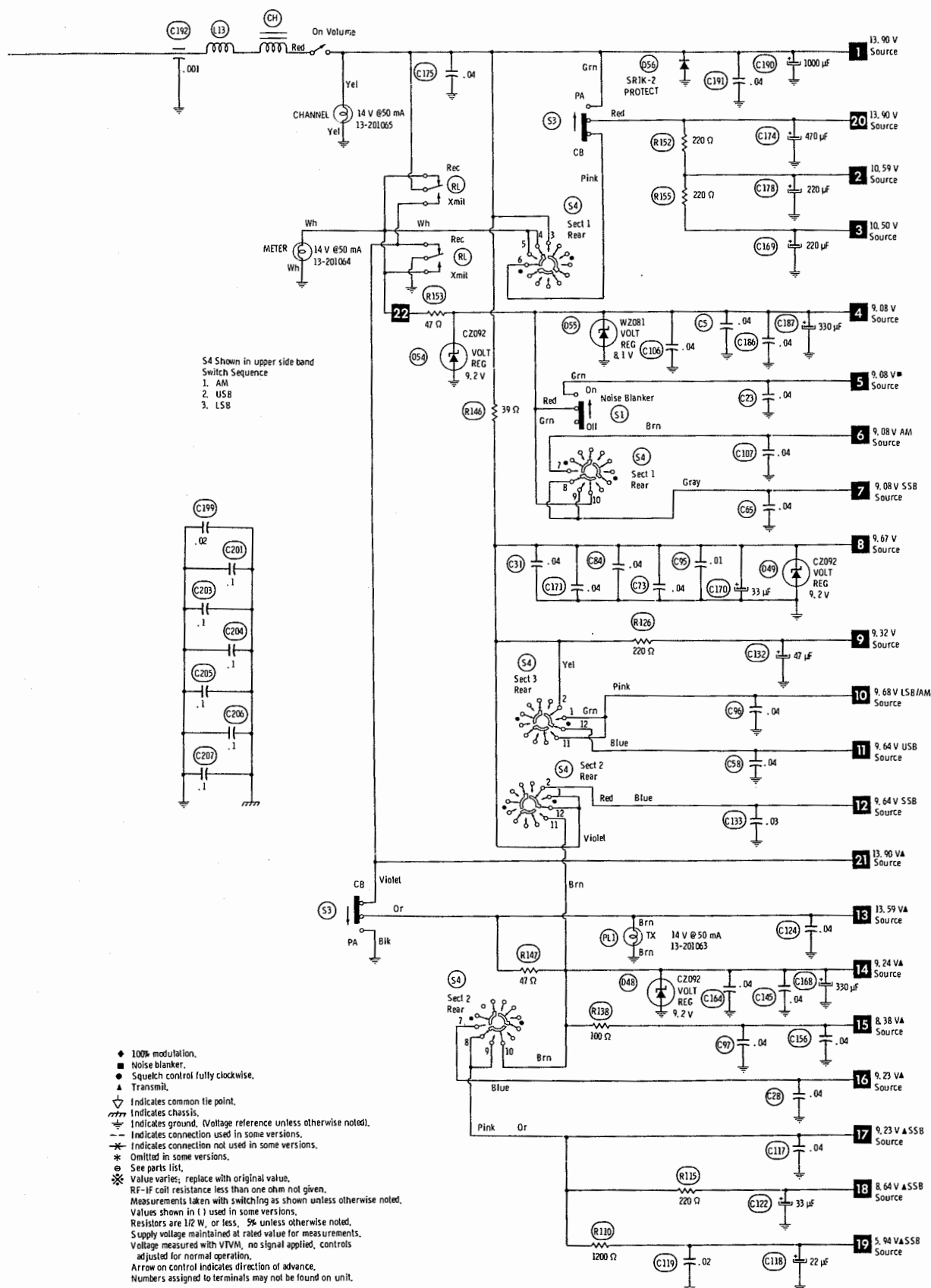
SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1N60P	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D2	1S1588	09-306135	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D3	1S2473	09-306244(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	1S1588	09-306135	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D4	1S2473	09-306244(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	1S1588	09-306135	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D5	1S2473	09-306244(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	1S1588	09-306135	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	1S2473	09-306244(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D10	1S1588	09-306135	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	1S2473	09-306244(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D12	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D13	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D14	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D15	1S1588	09-306135	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	1S2473	09-306244(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D16	1S1693	09-306376	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D17	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
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D19	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
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D22	1S1588	09-306135	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
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6.2V Zener										
D25	KB262	09-307081	GE-504A	8D4	PTC201	HEPRD052	RE 49	SK3030	RT-213	ECG116
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D40	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
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	1S2473	09-306244(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D48	CZD92	09-306375	GEZD-9.1	Z1210	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
	9.2V Zener									
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	9.2V Zener									
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	9.2V Zener									
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D56	8.1V Zener									
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(CONTINUED ON PAGE 109)

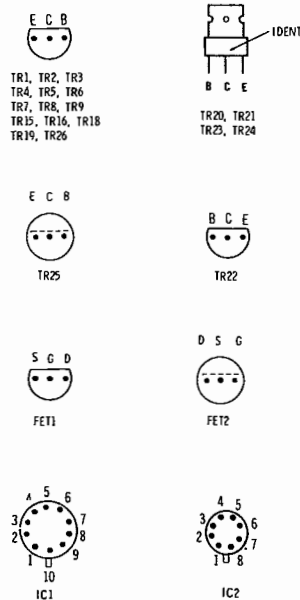




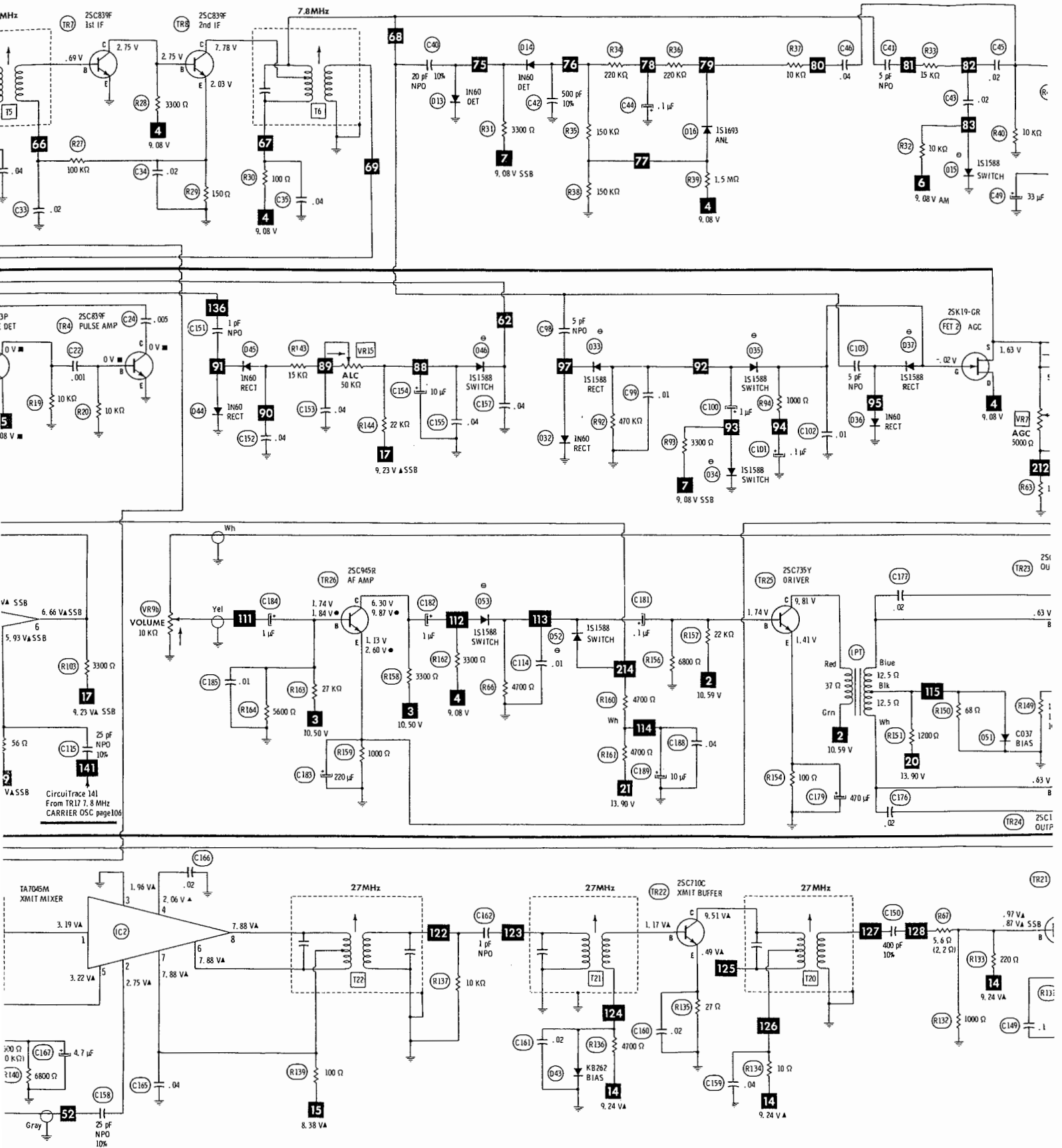
A PHOTOFACT STANDARD NOTATION SCHEMATIC

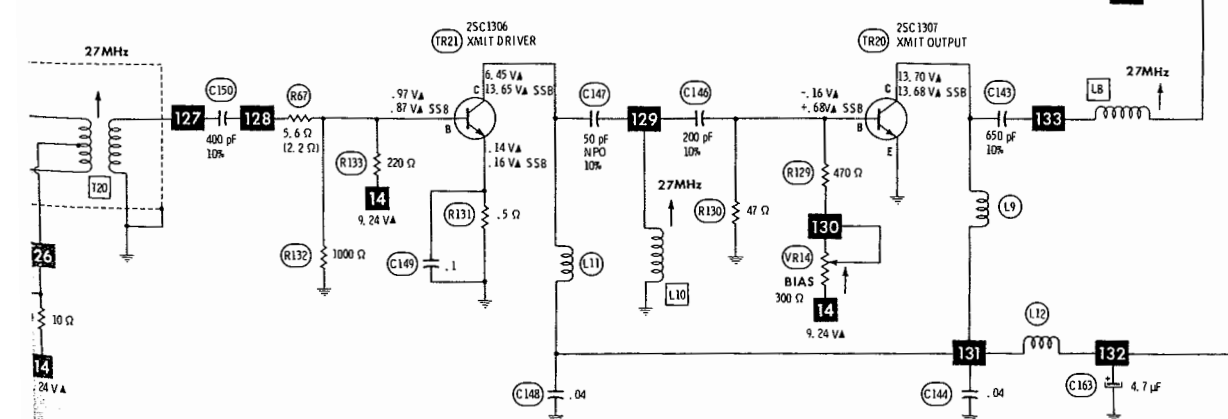
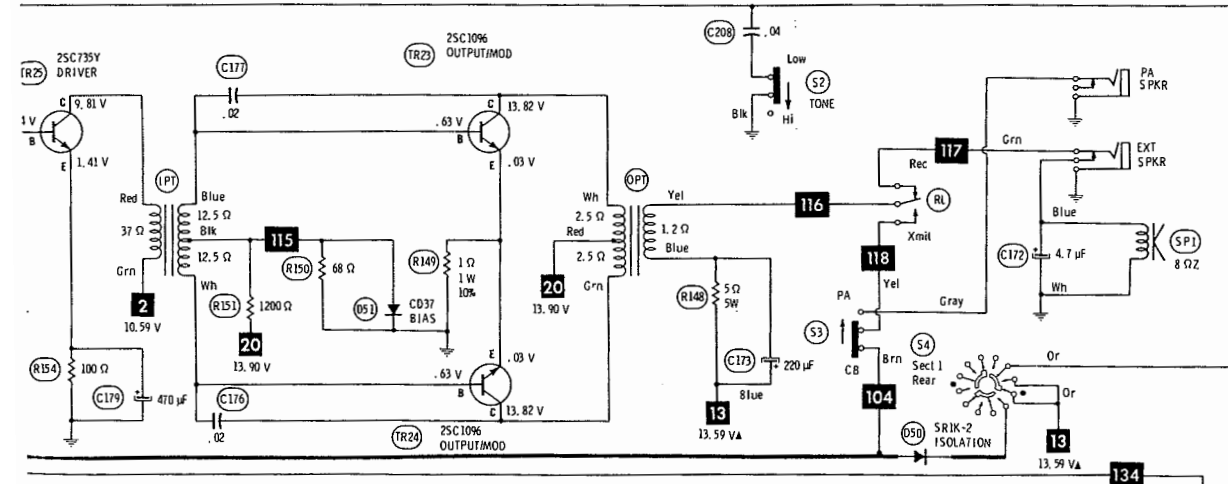
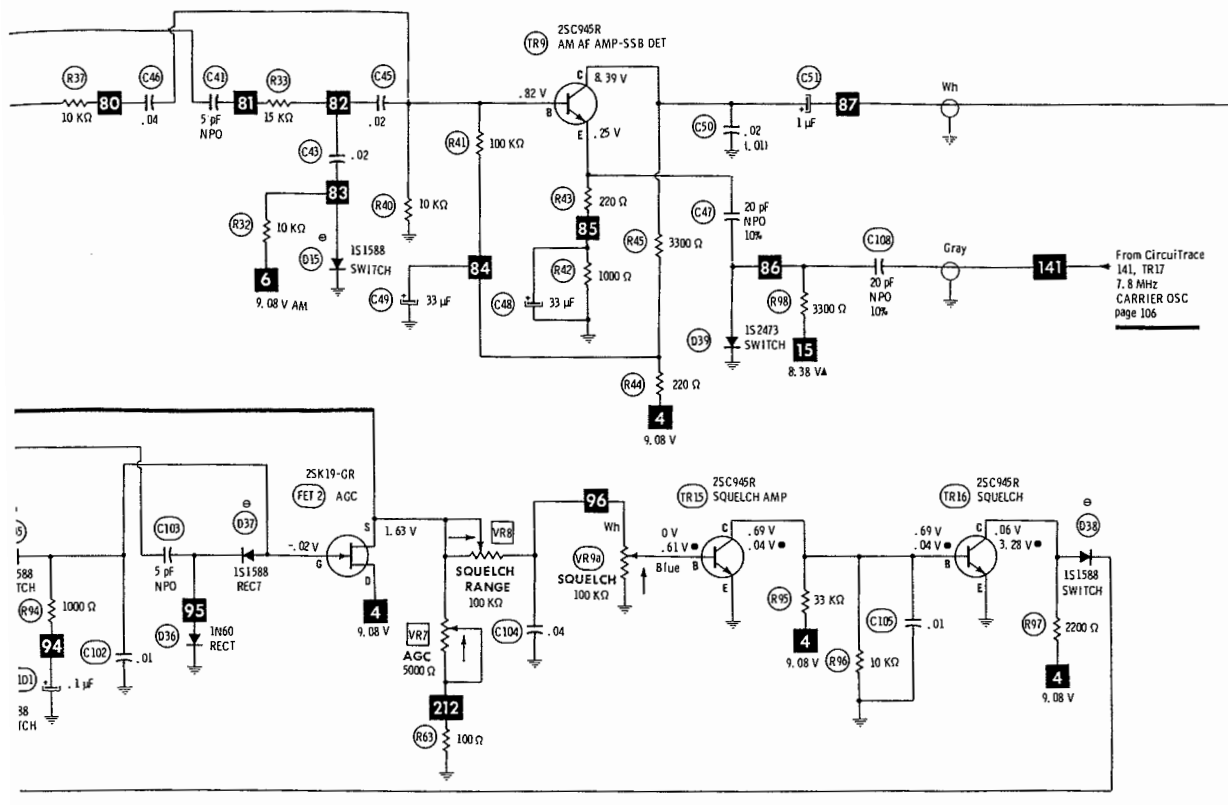
with CIRCUITRACE

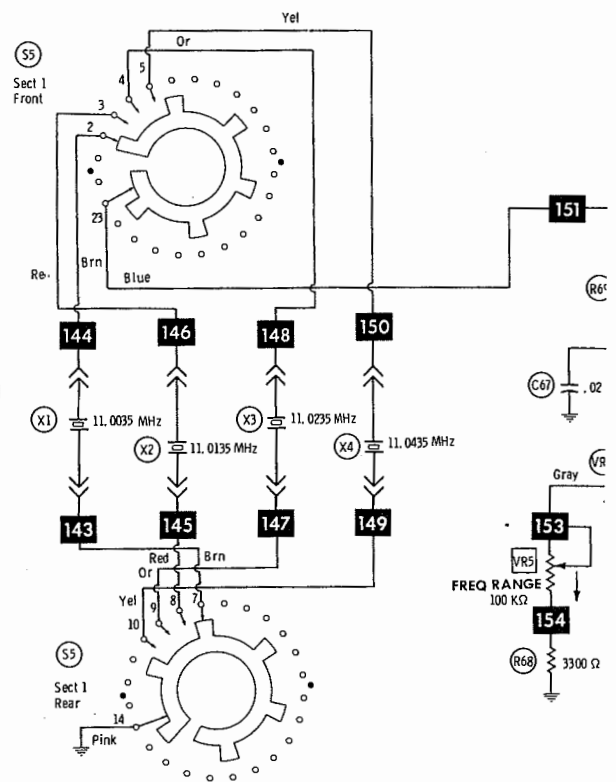
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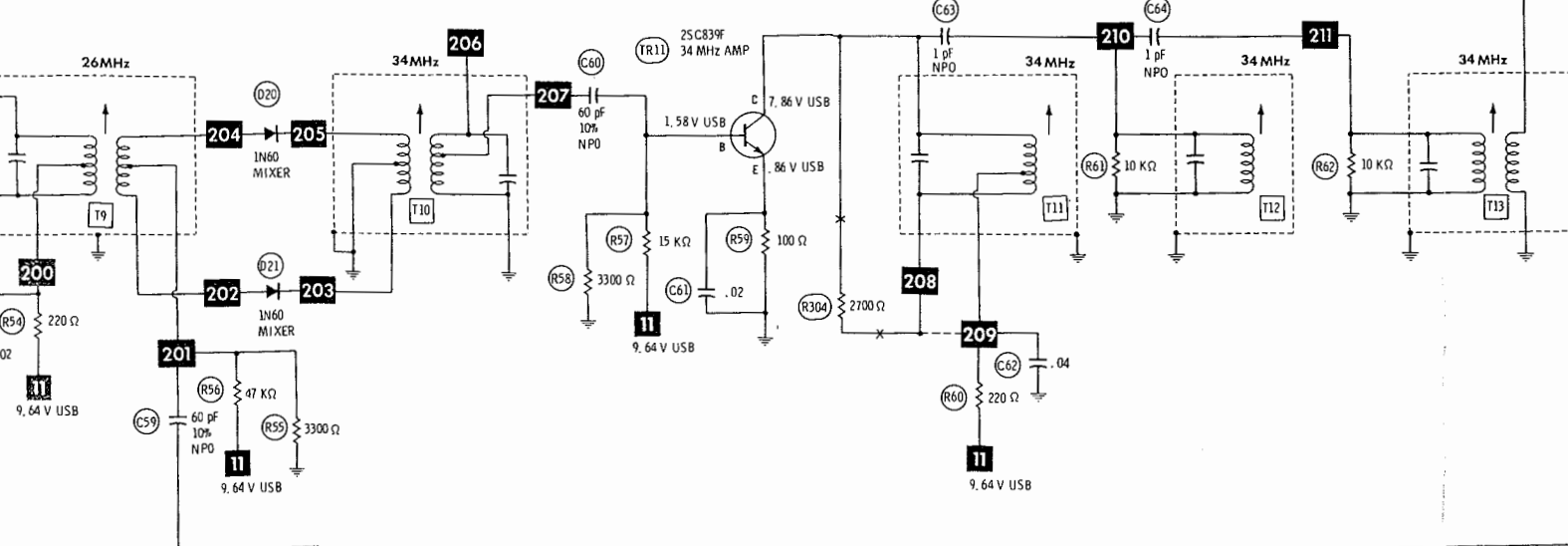
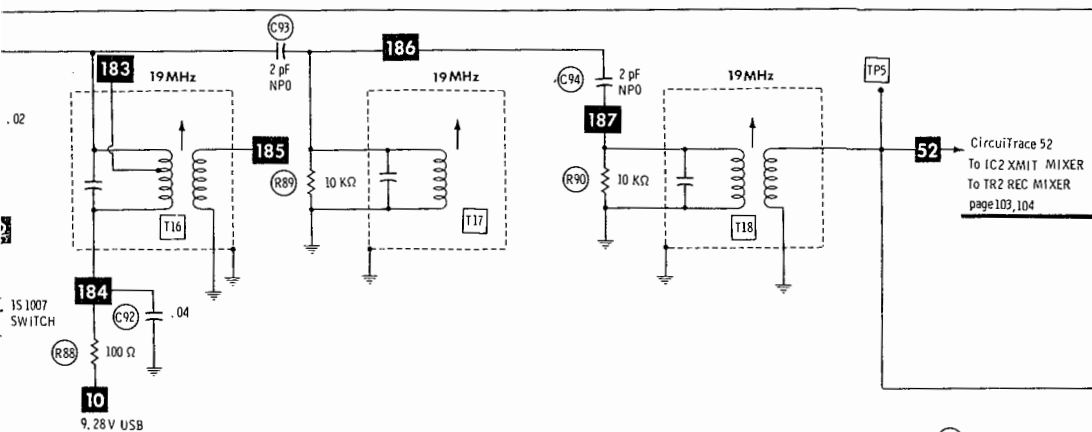
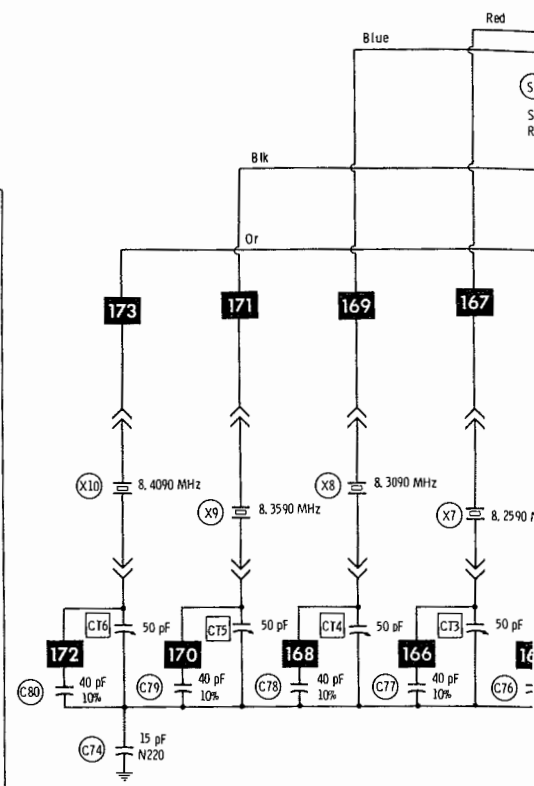
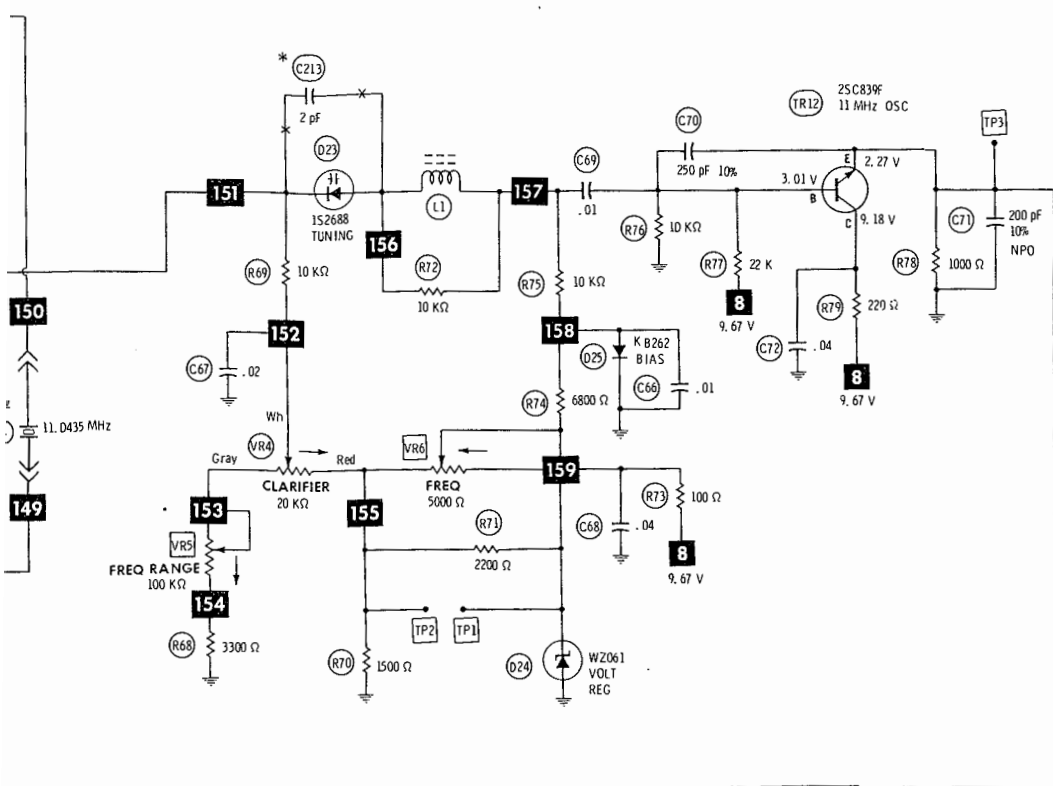


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PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D57	WZ061 6.2V Zener	09-306377	GEZD-6.2	Z1204	PTC503	HEPZ0408	RE 108	SK3058	RT-237	ECG5070
D58	BZ162 16V Zener	09-306268	GEZD-15	Z1214	ZB16	HEPZ0419	RE 122	SK3063	RT-246	ECG5075
D59		09-306379	GE-512	3F200	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156
D60		09-306379	GE-512	3F200	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156
D61		09-306379	GE-512	3F200	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156
D62		09-306379	GE-512	3F200	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156
D64	KB262	09-307081	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D65	IS994 4V Zener	09-306380	GEZD-3.6	Z1200	PTC501	HEPZ0403	RE 102	SK3055	RT-234	ECG5067
FET1	2SK30GR	09-305021	GE-FET-1	FE-100	PTC151	HEPF0010	RE 46	SK3112	RT-176	ECG133
FET2	2SK19GR	09-305014	GE-FET-2	FE-100	PTC152	HEPF0021	RE 45	SK3116	RT-175	ECG132
IC1	MC1496G	09-308075				HEPC6050G				
IC2	TA7045M	09-308002			PTC744				TVCM-48	ECG724
TR1	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR2	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR3	2SA733P	09-300080	GE-28	TR-88	PTC127	HEPS0019	RE 26	SK3114	RT-120	ECG159
TR4	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR5	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR6	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR7	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR8	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR9	2SC945R	09-302125	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR10	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR11	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR12	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR13	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR14	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR15	2SC945R	09-302125	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR16	2SC945R	09-302125	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR17	2SC839F	09-302124	GE-17	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR18	2SC945R	09-302125	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR19	2SC945R	09-302125	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR20	2SC1307 (2)	09-305137	GE-216		PTC186				RT-197	ECG236
TR21	2SC1306(3)	09-305136	GE-66	TR-55	PTC186		RE 194		RT-197	ECG235
TR22	2SC710C	09-302012	GE-17	TR-24	PTC121	HEPS0016	RE 9	SK3018	RT-105	ECG123A
TR23	2SC1096 (4)	09-302126	GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186
TR24	2SC1096 (4)	09-302126	GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186
TR25	2SC735Y	09-302040	GE-63	TR-24	PTC123	HEPS0014	RE 78	SK3124	RT-172	ECG289
TR26	2SC945R	09-302125	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR27	2SD180M	09-305138	GE-35	TR-61	PTC116	HEPS7002	RE 19	SK3027	RT-131	ECG223
TR28	2SC945R	09-302125	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR29	2SC1096 (4)	09-302126	GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186

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

MIDLAND MODEL 13-895

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C37	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C44	.1 25V						
C48	33 10V	77-332336	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C49	33 16V	77-336336	ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C51	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C100	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C101	.1 25V						
C116	2.2 25V	77-339225	RME-A-J-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C118	22 10V	77-336226	RME-D-G-025	EP15-25	PC25-25	VTT22A16	EV-1224
C120	10 16V	77-337106	RME-A-D-010	EP15-10	PC10-25	VTT10A25	EV-1222
C122	33 16V	77-336336	ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C123	33 10V	77-332336	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C125	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C127	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C128	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C129	33 10V	77-332336	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C130	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C132	47 10V	77-336476	RME-C-B-050	EP6-50	PC50-10	VTT47A6	EV-1026
C134	4.7 25V	77-339475	RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C135	10 16V	77-337106	RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C154	10 16V	77-337106	RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C163	4.7 25V	77-339475	RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319

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.
C167	4.7 25V	77-339475	RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C168	220 10V	77-336227	RME-G-D-250	EP15-250	PC250-10	VTT220F10	EV-1140
C169	220 16V	77-337227	RME-J-E-250	EP15-250	PC250-25	VTT220G16	EV-1240
C170	33 16V	77-336336	ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C172	4.7 25V	77-339475	RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C173	220 25V	77-339227	RME-K-G-250	EP30-250	PC250-25	VTT220H25	EV-1340
C174	470 16V	77-337477	RME-K-D-500	EP15-500	PC500-16	VTT470J16	EV-1150
C178	220 16V	77-339475	RME-J-E-250	EP15-250	PC250-25	VTT220G16	EV-1240
C179	470 10V	77-332477	RME-K-D-500	EP15-500	PC500-16	VTT470J16	EV-1150
C181	.1 25V						
C183	220 6.3V	77-332227	RME-G-D-250	EP15-250	PC250-10	VTT220F10	EV-1140
C184	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTVICB50	EV-1615
C187	330 10V	77-336107	RME-G-D-250	EP15-250	WBR350-150	VTT330G10	EV-1145
C189	10 16V	77-337106	RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C190	1000 16V	77-337108	RME-N-E-1000	EP15-1000	PC1000-16	VTT1000L16	EV-1260
C193	220 16V	77-337227	RME-J-E-250	EP15-250	PC250-25	VTT220G16	EV-1240
C194	2200 25V	77-339228	ME-G2000		WBR2000-25	TC2520A	TVA-1213.5

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C2	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C3	.02		CCD-203			GP120	5GA-S20
C4	.02		CCD-203			GP120	5GA-S20
C5	.04		CCD-403			GP140	5GA-S40
C6	2 NPO		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C7	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C8	40 10%		CCTO-390			CN0439	10TCC-Q39
C9	.02		CCD-203			GP120	5GA-S20
C10	.02		CCD-203			GP120	5GA-S20
C11	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C12	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C13	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C14	.02		CCD-203			GP120	5GA-S20
C15	20 NPO 10%		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C16	.02		CCD-203			GP120	5GA-S20
C17	.02		CCD-203			GP120	5GA-S20
C18	.02		CCD-203			GP120	5GA-S20
C19	.02		CCD-203			GP120	5GA-S20
C20	5 NPO		CCTO-050				10TCC-V50
C21	.02		CCD-203			GP120	5GA-S20
C22	.001		CCD-102	DD-102		GP210	10TS-D10
C23	.04		CCD-403			GP140	5GA-S40
C24	.005		CCD-502				10TS-D50
C25	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C26	.001		CCD-102	DD-102		GP210	10TS-D10
C27	20 NPO 10%		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C28	.04		CCD-403			GP140	5GA-S40
C29	2 NPO		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C30	.02		CCD-203			GP120	5GA-S20
C31	.04		CCD-403			GP140	5GA-S40
C32	.04		CCD-403			GP140	5GA-S40
C33	.02		CCD-203			GP120	5GA-S20
C34	.02		CCD-203			GP120	5GA-S20
C35	.04		CCD-403			GP140	5GA-S40
C36	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C38	.04		CCD-403			GP140	5GA-S40
C39	.04		CCD-403			GP140	5GA-S40
C40	20 NPO 10%		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C41	5 NPO 10%		CCTO-050				10TCC-V50
C42	500 10%		DM15-501J		CD15FD501J03		
C43	.02		CCD-203			GP120	5GA-S20
C45	.02		CCD-203			GP120	5GA-S20
C46	.04		CCD-403			GP140	5GA-S40
C47	20 NPO 10%		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C50	.02		CCD-203			GP120	5GA-S20
C52	.04		CCD-403			GP140	5GA-S40
C53	25 NPO 10%			DTZ-25	NP025	CN0425	10TCC-Q25
C54	60 NPO 10%		CCTO-680	DTZ-68	NP068	CN0468	10TCC-Q68
C55	100 10%		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C56	.02		CCD-203			GP120	5GA-S20
C57	.02		CCD-203			GP120	5GA-S20
C58	.04		CCD-403			GP140	5GA-S40
C59	60 NPO 10%		CCTO-680	DTZ-68	NP068	CN0468	10TCC-Q68
C60	60 NPO 10%		CCTO-680	DTZ-68	NP068	CN0468	10TCC-Q68
C61	.02		CCD-203			GP120	5GA-S20
C62	.04		CCD-403			GP140	5GA-S40
C63	1 NPO					CN0510	10TCC-V10
C64	18 NPO		CCTO-180			CN0418	10TCC-Q18
C65	.04		CCD-403			GP140	5GA-S40
C66	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C67	.02		CCD-203			GP120	5GA-S20
C68	.04		CCD-403			GP140	5GA-S40
C69	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C70	250		DM10-251J		CD10FD251J03		
C71	200		CCD-201	DD-201	GP200	GP320	10TS-T20
C72	.04		CCD-403			GP140	5GA-S40
C73	.04		CCD-403			GP140	5GA-S40
C74	15 N220		*			*	10TCR-Q15
C75	40 10%		CCTO-390			CN0439	10TCC-Q39
C76	40 10%		CCTO-390			CN0439	10TCC-Q39
C77	40 10%		CCTO-390			CN0439	10TCC-Q39
C78	40 10%		CCTO-390			CN0439	10TCC-Q39
C79	40 10%		CCTO-390			CN0439	10TCC-Q39
C80	40 10%		CCTO-390			CN0439	10TCC-Q39
C81	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C82	200 NPO 10%		CCD-201	DD-201	GP200	GP320	10TS-T20
C83	300 10%						
C84	.04		CCD-403			GP140	5GA-S40
C85	12 NPO		CCTO-120			CN0412	10TCC-Q12
C86	120 NPO 10%		CCTO-121	DTZ-120		CN0312	10TCC-T12
C87	100 N220 10%		*			*	10TCR-T10
C88	100 N220 10%		*			*	10TCR-T100
C89	600		DM10-131J	CPR-130J	CD7FD131J03	SX313	424MC1300J501
C90	.02		CCD-203			GP120	5GA-S20
C91	.02		CCD-203			GP120	5GA-S20
C92	.04		CCD-403			GP140	5GA-S40
C93	2 NPO		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C94	2 NPO		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C95	.02		CCD-203			GP120	5GA-S20
C96	.04		CCD-403			GP140	5GA-S40
C97	.04		CCD-403			GP140	5GA-S40
C98	5 NPO		CCTO-050				10TCC-V50
C99	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C102	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C103	5 NPO		CCTO-050				10TCC-V50
C104	.04		CCD-403			GP140	5GA-S40
C105	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C106	.04		CCD-403			GP140	5GA-S40
C107	.04		CCD-403			GP140	5GA-S40
C108	20 NPO 10%		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C109	12 NPO 10%		CCTO-120			CN0412	10TCC-Q12
C110	20 NPO 10%		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C111	.001 10%		CCD-102	DD-102		GP210	10TS-D10
C112	150 10%		DM10-151J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C113	.04		CCD-403			GP140	5GA-S40
C114	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C115	25 NPO 10%					CN0427	10TCC-Q27
C117	.04		CCD-403			GP140	5GA-S40
C119	.02		CCD-203			GP120	5GA-S20
C121	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C124	.04		CCD-403			GP140	5GA-S40
C126	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C133	.04		CCD-403			GP140	5GA-S40
C136	.04		CCD-403			GP140	5GA-S40
C137	35 NPO 5%					CN0439	10TCC-Q39
C138	250 10%		DM10-251J		CD10FD251J03		
C139	250 10%		DM10-251J		CD10FD251J03		
C140	400 10%		DM15-391J	CPR-390J	CD15FD391J03	SX339	424ME3900J501
C141	1 NPO					CN0510	10TCC-V10
C142	.04		CCD-403			GP140	5GA-S40
C143	650 10%		DM19-681J	CPR-680J	CD19FD681J03	SX368	424ME6800J501
C144	.04		CCD-403			GP140	5GA-S40
C145	.04		CCD-403			GP140	5GA-S40
C146	200 5%		DM10-201J	CPR-200J	CD10FD201J03	SX320	424ME2000J501
C147	50 NPO 10%		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C148	.04		CCD-403			GP140	5GA-S40

MIDLAND MODEL 13-895

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C149	.1						
C150	400						
C151	1 NPO		CCD-391	DC-104 DD-391	MGP1 GP390	MAG5001 GP339 CN0510	TG-P10 10TS-T39 10TCC-V10
C152	.04		CCD-403			GP140	5GA-S40
C153	.04		CCD-403			GP140	5GA-S40
C155	.04		CCD-403			GP140	5GA-S40
C156	.04		CCD-403			GP140	5GA-S40
C157	.04		CCD-403			GP140	5GA-S40
C158	25 NPO 10%			DTZ-25	NP025	GP140 CN0425	5GA-S40 10TCC-Q25
C159	.04		CCD-403			GP140	5GA-S40
C160	.02		CCD-203			GP120	5GA-S20
C161	.02		CCD-203			GP120	5GA-S20
C162	1 NPO					CN0510	10TCC-V10
C164	.04		CCD-403			GP140	5GA-S40
C165	.04		CCD-403			GP140	5GA-S40
C166	.02		CCD-203			GP120	5GA-S20
C171	.04		CCD-403			GP140	5GA-S40
C175	.04		CCD-403			GP140	5GA-S40
C176	.1			DC-104	MGP1	MAG5001	TG-P10
C177	.1			DC-104	MGP1	MAG5001	TG-P10
C180	.04		CCD-403			GP140	5GA-S40
C185	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C186	.04		CCD-403			GP140	5GA-S40
C188	.04		CCD-403			GP140	5GA-S40
C191	.04		CCD-403			GP140	5GA-S40
C192	.001		CCD-102	DD-102		GP210	10TS-D10
C195	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C196	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C197	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C199	.02		CCD-203			GP120	5GA-S20
C201	.1			DC-104	MGP1	MAG5001	TG-P10
C202	.1			DC-104	MGP1	MAG5001	TG-P10
C203	.1			DC-104	MGP1	MAG5001	TG-P10
C204	.1			DC-104	MGP1	MAG5001	TG-P10
C205	.1			DC-104	MGP1	MAG5001	TG-P10
C206	.1			DC-104	MGP1	MAG5001	TG-P10
C207	.1			DC-104	MGP1	MAG5001	TG-P10
C209	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C210	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C212	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C213	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10

* 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	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	RF Gain Range	100K	13-161015	TSV-100K (2) or T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
VR2	RF Gain	100K	13-160107				
VR3	"S" Meter	20K	13-161016	T-20K (2) or TSV-25K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)
VR4	Clarifier	20K	13-160108				
VR5	Frequency Range	100K	13-161015	TSV-100K (2) or T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
VR6	Frequency	5000	13-161017	TSV-5K (2) or T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
VR7	AGC	10K	13-161018	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
VR8	Squelch Range	100K	13-161015	TSV-100K (2) or T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
VR9a	Squelch	100K	13-160109				
b	Volume/Range	10K					
VR10	Balance	50K	13-161019	TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR11	Mic Gain	10K	13-160110				
VR12	AMC	10K	13-161018	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
VR13	RF Power	100K	13-161015	TSV-100K (2) or T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
VR14	Bias	300	13-161020	T-300 (2)		MTC32L1 (2)	X201R351B (2)
VR15	ALC	50K	13-161021	TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR17	Voltage	200	13-161022	T-200 or TSV-250		MTC22L1	X201R251B

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

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
R148	5 5W WW	5W-SQ5	77-208509				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (10uH)	13-176441			
L2	RF Choke (8.2uH)	13-176442			
L3	RF Choke (100uH)	13-176443			
L4	RF Choke (6.8uH)	13-176444			
L5	Trap (54MHz)	13-094173			
L6	Xmit Ant (27MHz)	13-094184			
L7	Pi Network (27MHz)	13-094184			
L8	Final Amp (27MHz)	13-094173			
L9	RF Choke	13-094185			
L10	Xmit Buffer (27MHz)	13-094173			
L11	RF Choke	13-094185			
L12	RF Choke	13-194185			
T1	Rec. Ant. (27MHz)	13-094186			
T2	Rec. RF (27MHz)	13-094187			
T3	Rec. RF (27MHz)	13-094187			
T4	Rec. IF (7.8MHz)	13-094188			
T5	Rec. IF (7.8MHz)	13-090332			
T6	Rec. IF (7.8MHz)	13-090333			
T7	26MHz Mixer Input	13-094189			
T8	26MHz Mixer Output	13-094190			
T9	34MHz Mixer Input	13-094191			
T10	34MHz Output	13-094192			
T11	34MHz Output	13-094193			
T12	34MHz Output	13-094194			
T13	34MHz Output	13-094194			
T14	Balance Mixer Input	13-094195			
T15	Balance Mixer Output	13-094196			
T16	19MHz Output	13-094197			
T17	19MHz Output	13-094198			
T18	19MHz Output	13-094199			
T19	7.8MHz Osc Output	13-170203			
T20	Xmit RF Amp (27MHz)	13-094200			
T21	Xmit Buffer Input (27MHz)	13-094201			
T22	Xmit Mixer Output (27MHz)	13-094202			
T23	Xmit Mixer Input (7.8MHz)	13-094203			

MIDLAND MODEL 13-895

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
CH	1900mA	.2	2.6mH	13-178188 TF-041 (1)				(1) Number on unit.

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
IPT	1.25	1		13-096170 7258 (1)				(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
OPT	32	8	13-096171 TF-062 (1)			(1) Number on unit.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
PT	120V AC @ 520mA AC	20V AC @ 2700mA AC	13-098020 TF-063 (1)			(1) Number 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.	
SP	3-5/8" PM, 8 Ohms	13-060099		(SP-005)

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	2 Amp		13-158346	AGC2	HKP	312002	342001AL
F2	2 Amp			AGC2	HDJ	312002	150145

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X1	11.0035	13-128342	AJA32M11.0035	1,5,9,13,17,21	X7	8.2590	128348	AJB90M8.2590	9,10,11,12
X2	11.0135	13-128343	AJA32M11.0135	2,6,10,14,18,22	X8	8.3090	128349	AJB90M8.3090	13,14,15,16
X3	11.0235	13-128344	AJA32M11.0235	3,7,11,15,19	X9	8.3590	128350	AJB90M8.3590	17,18,19,20
X4	11.0435	13-128345	AJA32M11.0435	4,8,12,16,20,23	X10	8.4090	128351	AJB90M8.4090	21,22,23
X5	8.1590	13-128346	AJB90M8.1590	1,2,3,4	X11	7.8025	128352	AJC39M7.8025	A11
X6	8.2090	13-128347	AJB90M8.2090	5,6,7,8					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Ceramic Filter	13-179049	(UF-074A)
M	Meter	13-200057	S/Rf (MT-018)
RL	Relay	13-105022	(RL-002)
S1	Switch	13-183194	Noise Blanker
S2	Switch	13-183194	Tone
S3	Switch	13-183193	PA/CB
S4	Switch	13-183196	AM/USB/LSB
S5	Switch	13-180090	Channel Selector
	Socket	13-159188	Crystals (S0-0105)

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

ITEM	PART No.	ITEM	PART No.
Cabinet Top	13-010257	Knob, Channel	13-115105
Cabinet Bottom	13-010258	Knob, RF Gain/Selector Clarifier, Mic Gain	13-110171
Microphone Hanger	13-158341	Knob, Squelch	13-110173
Panel, Front	13-010256	Knob, Volume	13-110172
Plate, Channel Dial	13-020593		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone (MK-005)	13-038062	
DC Power Cord	13-034074	
AC Power Cord (SPT-1)	13-034056	

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord, 2-Wire	8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	17106 (Plastic) or 17126 (Rubber) -6 feet
	17109 (Plastic) or 17129 (Rubber) -9 feet
	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
Ignition Noise Suppression	8491 4-Conductor (2 shielded, 2 unshielded) Neoprene
Bonding Strap	Use BELDEN No. 7300-Series Spark-Plug Sets
	Use BELDEN No. 8661 (3/8 inch)