



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.



MODEL TRC-48 (21-150)

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:	GC ELECTRONICS
MF101, T111, T112, T113.....	5000, 8290
ALL other tunable coils and transformers.....	9440
ALL tunable caps.....	5000

REALISTIC MODEL TRC-48

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Frequency Counter	1	C5	23.330MHz	Set Clarifier to center position. Set Mode switch to AM. Connect Counter to TP1 and TP3.
	5	C7	23.380MHz	
	9	C9	23.430MHz	
	13	C11	23.480MHz	
	17	C13	23.530MHz	
	21	C15	23.580MHz	
	1	C17	14.910MHz	Set Mode switch to USB. Connect Counter to TP2 and TP3.
	2	C19	14.920MHz	
	3	C21	14.930MHz	
	4	C23	14.950MHz	
	1	C26	14.907MHz	Set Mode switch to LSB. Connect Counter to TP2 and TP3.
	2	C28	14.917MHz	
	3	C30	14.927MHz	
	4	C32	14.947MHz	

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

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Printed in U. S. of America 5CZ290

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 TP104, low side to ground.	455kHz, 1000Hz @ 30% modulation.	Any	MF101,T111, T112,T113	Set Mode switch to AM and connect scope between TP107 and TP108. Adjust for maximum.
High side thru .01uF to TP103, low side to ground.	11.2735MHz, 1000Hz @ 30% modulation.	Any	T102,T103, T104	Set Mode switch to LSB and connect scope to T104 (secondary).
High side thru .01uF to TP2, low side to ground.	38.00MHz, 1000Hz @ 30% modulation.	Any	L1,L2,L3	Connect scope to TP101 and ground. Adjust for maximum.
High side thru .01uF to TP101, low side to ground.	27.00MHz, 1000Hz @ 30% modulation.	Any	L101,L102, L103,L104	Connect scope to TP102 and ground. Adjust for maximum.
High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1uV.	13	T105,T106, T107,T109, T110	Set Mode switch to AM. Adjust for maximum.

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
SQUELCH RANGE High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1000uV.	13	R186 (AM) R161 (SSB) R158 (SSB)	Set squelch control fully clockwise. Adjust so that squelch just breaks.
NOISE BLANKER High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1uV.	13	T108	Set Mode switch to AM. From Pulse Generator, inject a 1V p-p 1u sec. pulse, at 100Hz, into antenna jack. Adjust for MINIMUM noise.
"S" METER High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz 1000Hz @ 30% modulation, output 100uV.	13	R145 (SSB) R209 (AM)	Adjust for S 9 on panel "S" meter in SSB and AM.

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
MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	T101,T301, L305,L306	Inject a 2.5kHz signal to microphone input. Mode switch to AM. Channel selector to Ch. 13 Key transmitter. Adjust for maximum.
FINAL INPUT POWER Remove jumper at TPA. Connect 0-1500 DC milliammeter.	L305	Adjust for 5 watts (maximum).

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.

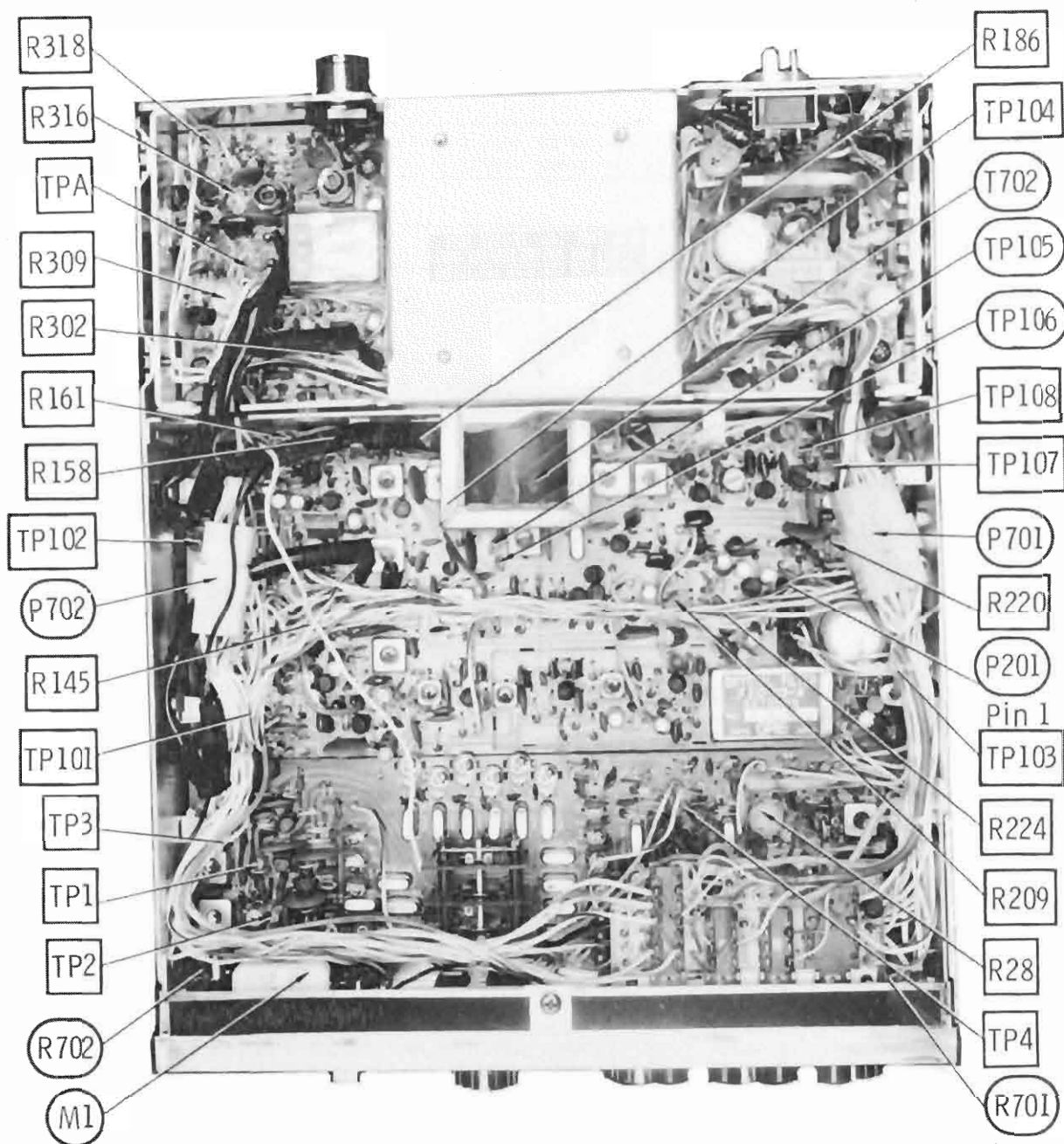
SSB

INDICATOR	ADJUST	REMARKS
USB CARRIER OSC. Connect frequency counter from TP4 to ground.	C54	Set mode switch to USB. Adjust for 11.272MHz.
LSB CARRIER OSC. Connect frequency counter from TP4 to ground.	C58	Set mode switch to LSB. Adjust for 11.275MHz.
CARRIER BALANCE Connect oscilloscope from antenna jack to ground.	R28, T1, C68	Short mic input. Set mode switch to LSB or USB. Key transmitter and adjust for MINIMUM on scope.
FINAL OUTPUT POWER Oscilloscope (Response to 30MHz)	R302,R309	Connect two-tone generator to mic input. Key transmitter. Set generator for less than 4 watts average RF power. Adjust for clean waveform with no clipping.

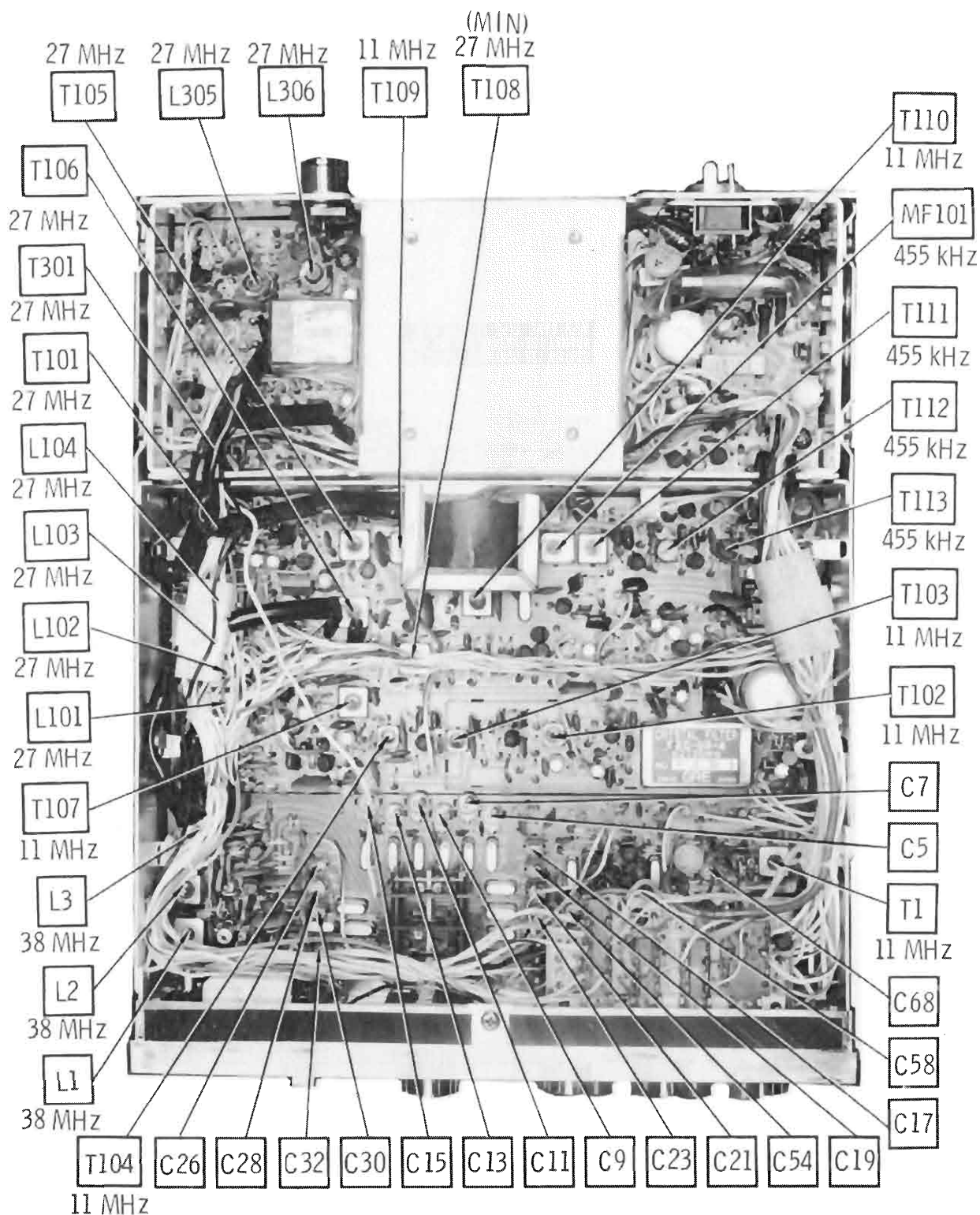
TRANSMITTER ADJUSTMENTS

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

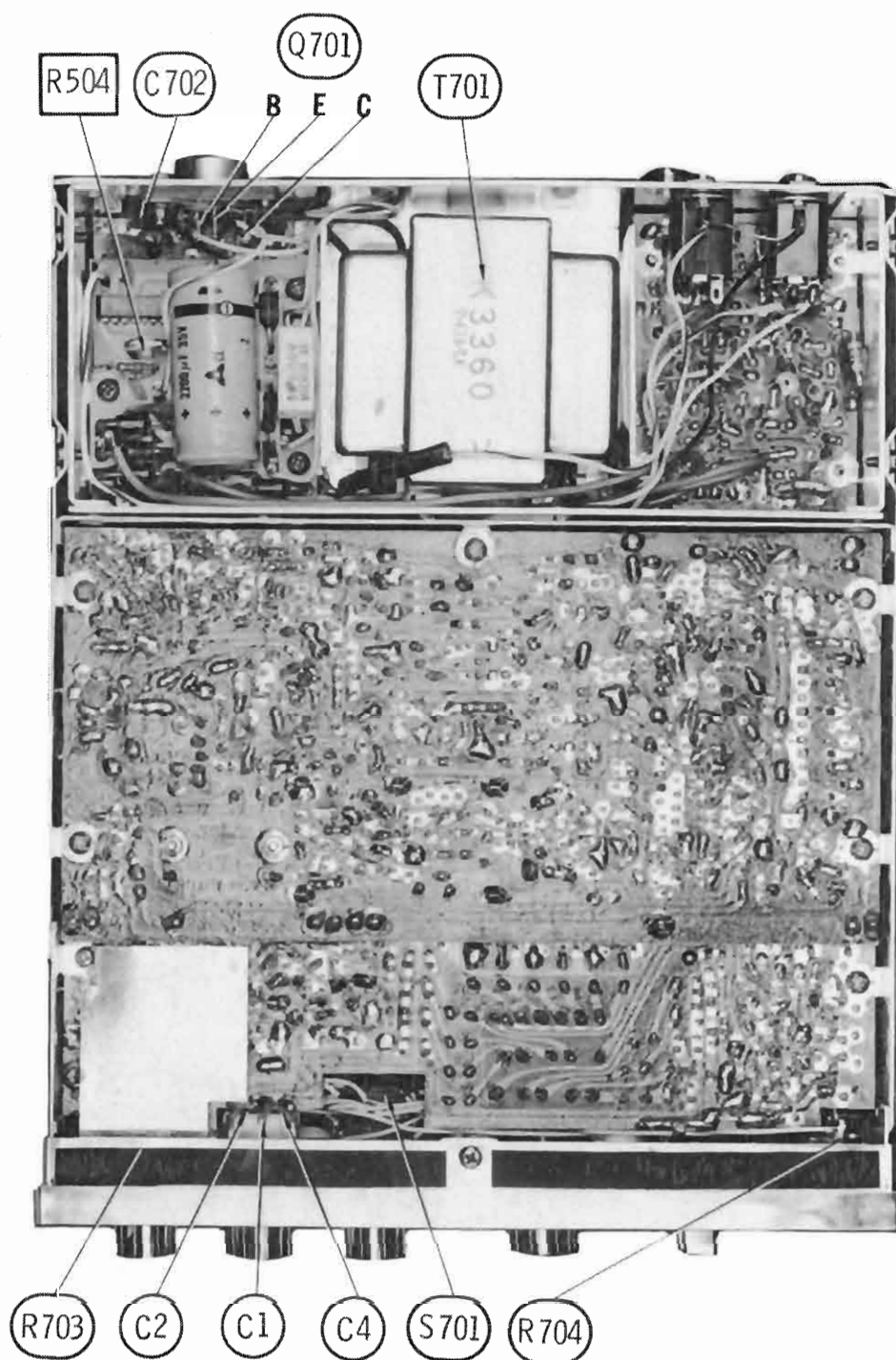
INDICATOR	ADJUST	REMARKS
VOLTAGE REGULATOR DC Voltmeter connected to G6 and ground.	R504	Adjust for 14 VDC at G6. Key transmitter. Voltage should not vary.
ALC RF Wattmeter Oscilloscope connected to antenna jack.	R316	Set mode switch to LSB. Inject a 1000Hz 15mV +6dB audio signal at mic input. Key transmitter. Adjust for 10 watts.
AMC Modulation Meter connected to antenna jack.	R220	Set mode switch to AM. Inject a 2.5kHz 50% modulation +6dB audio signal at mic input. Key transmitter. Adjust for 85% to 90% modulation maximum.
PANEL MODULATION INDICATOR Oscilloscope or Modulation Indicator connected to antenna jack	R224	Inject a 2.5kHz @ 30% modulation audio signal at mic input. Key transmitter. Adjust so that panel modulation lamp just comes on.
RF PANEL METER RF Wattmeter	R318	Set mode switch to AM. Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.



CHASSIS- TOP



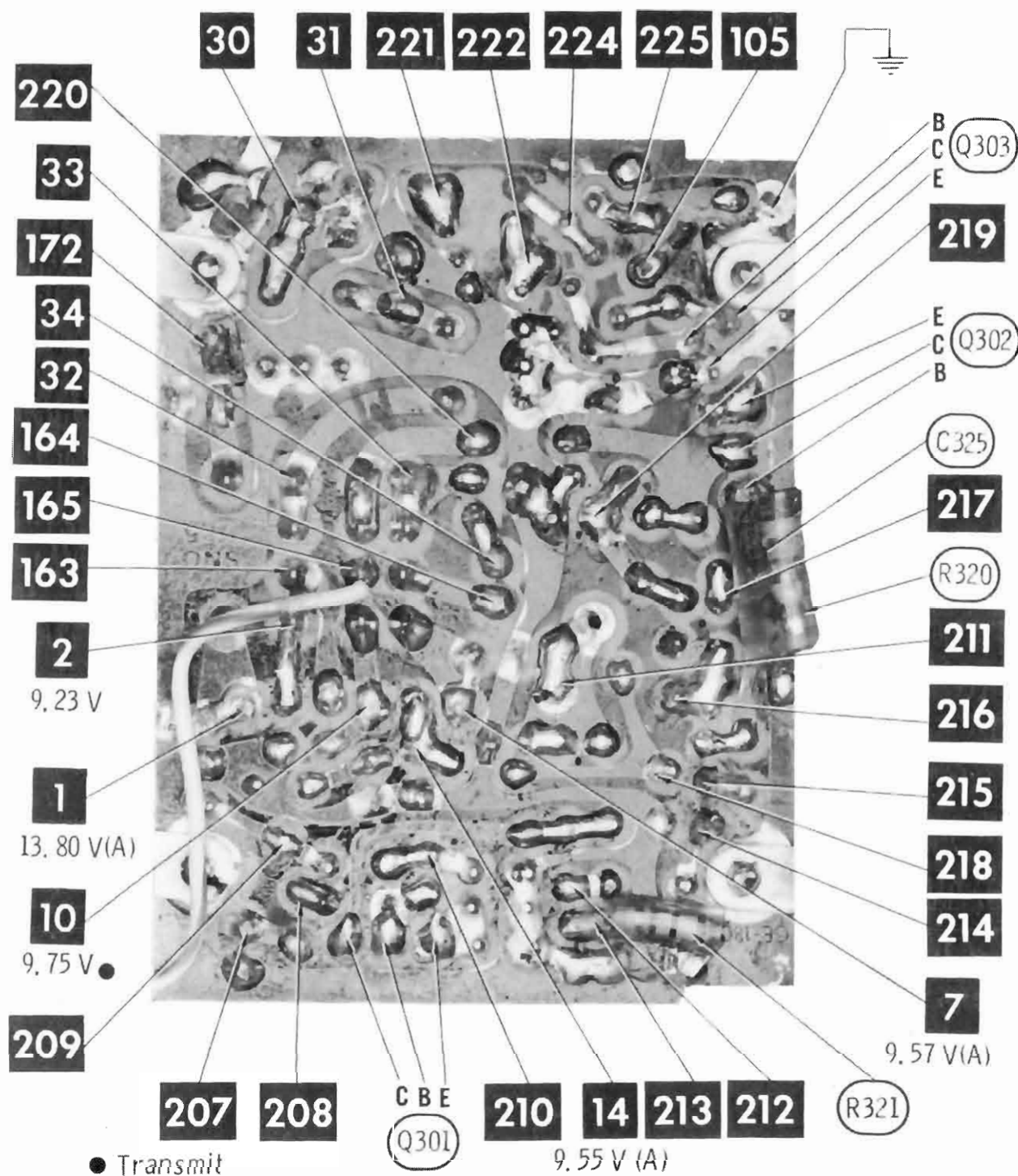
CHASSIS-TOP



CHASSIS - BOTTOM



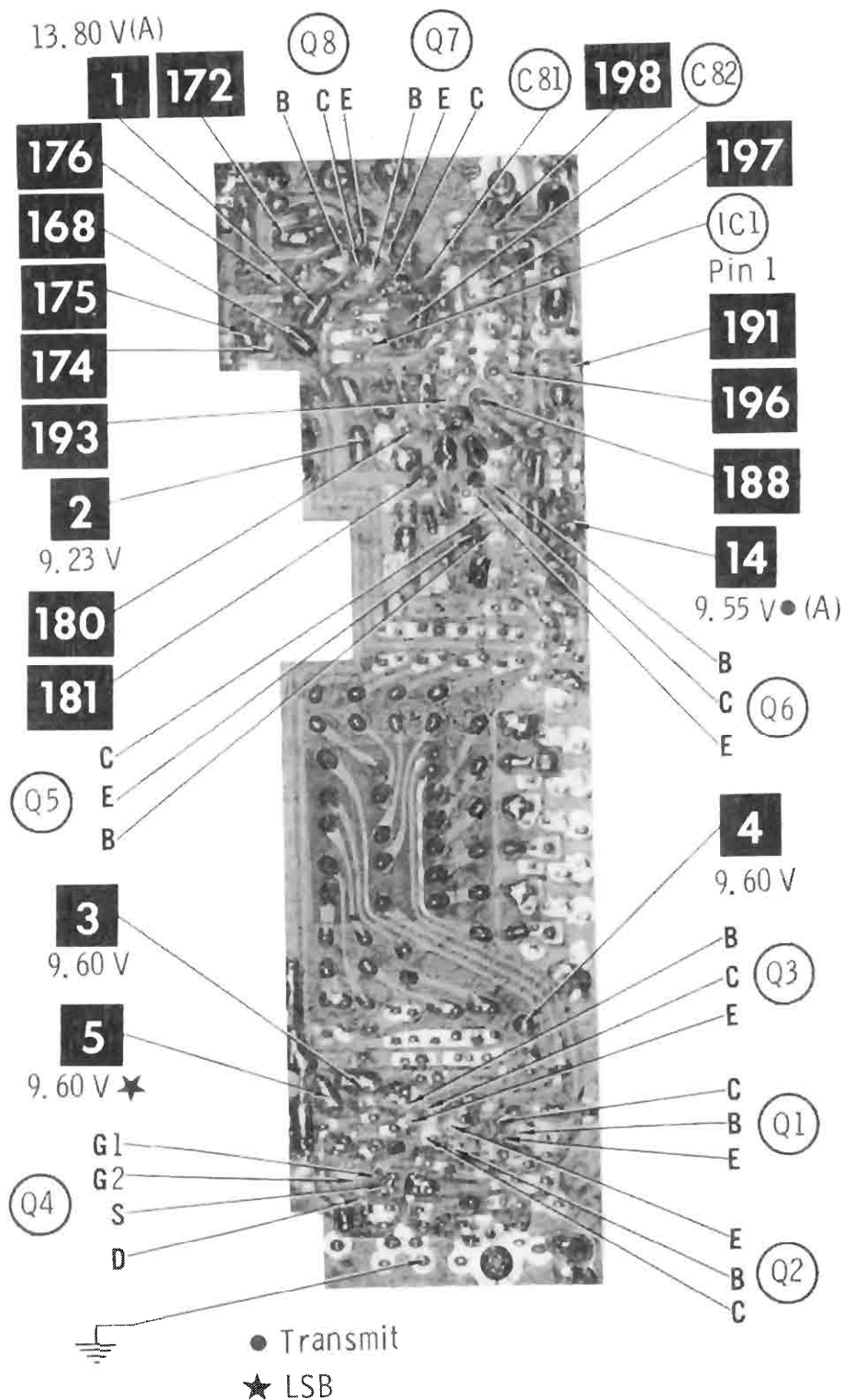
RF BOARD



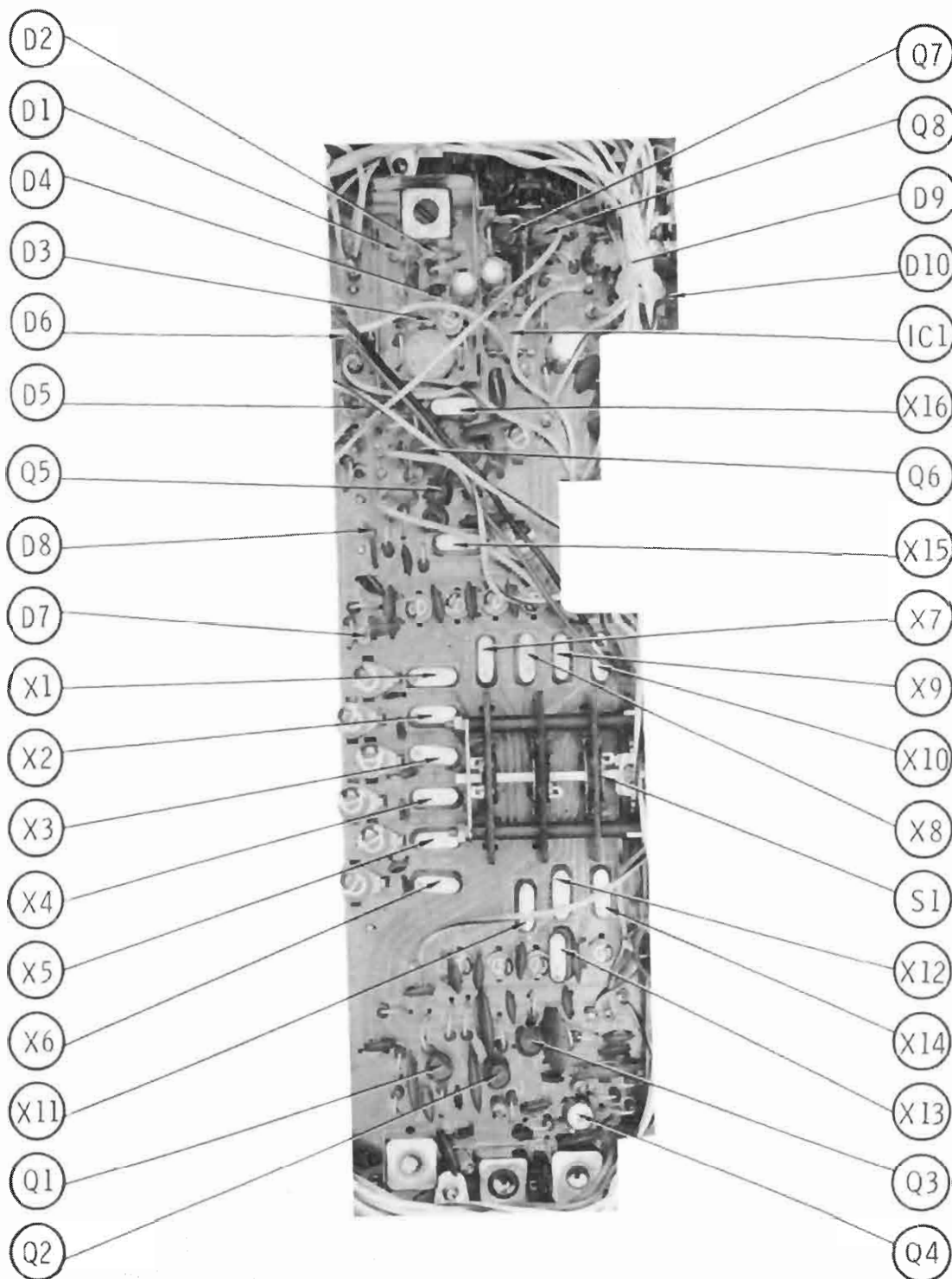
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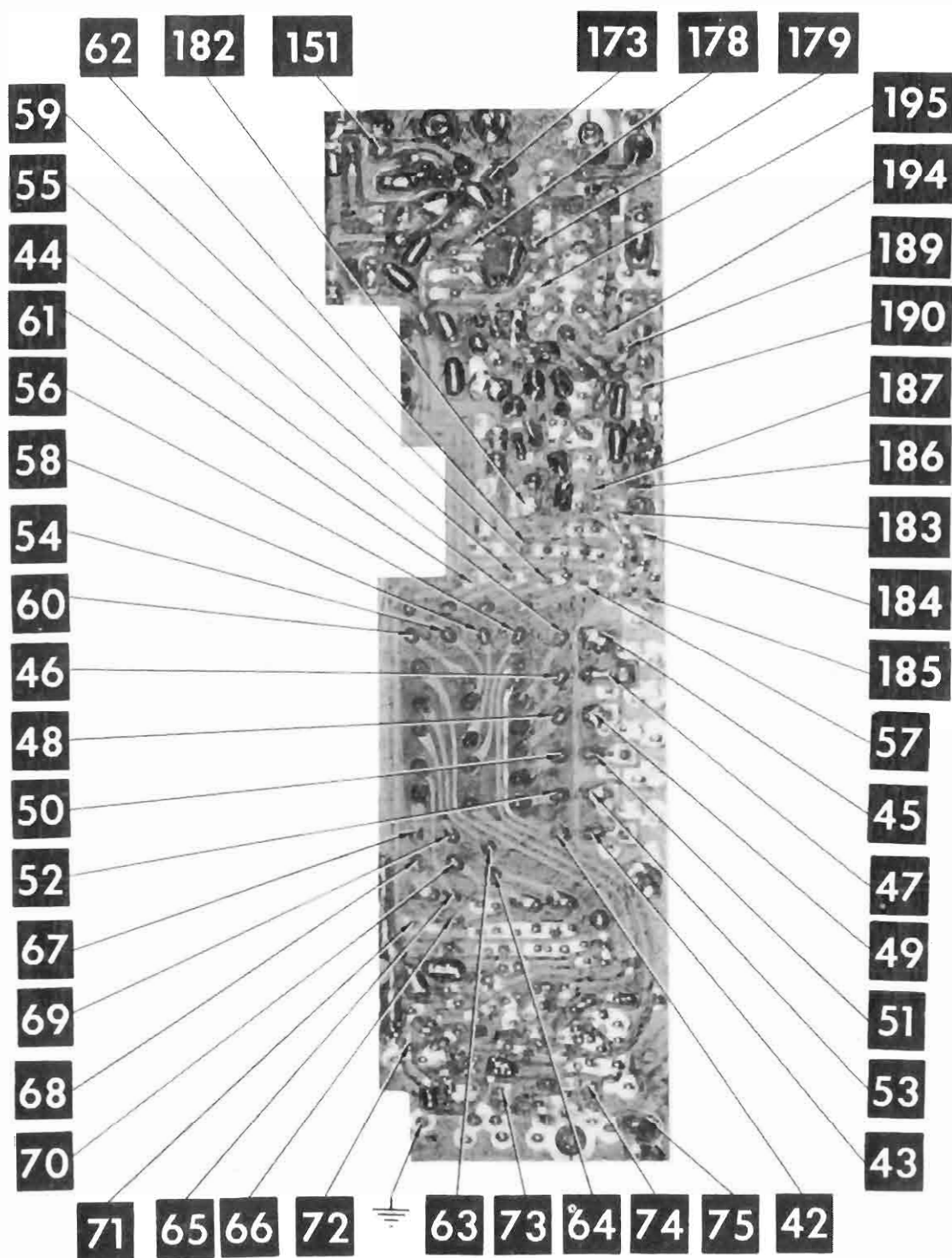
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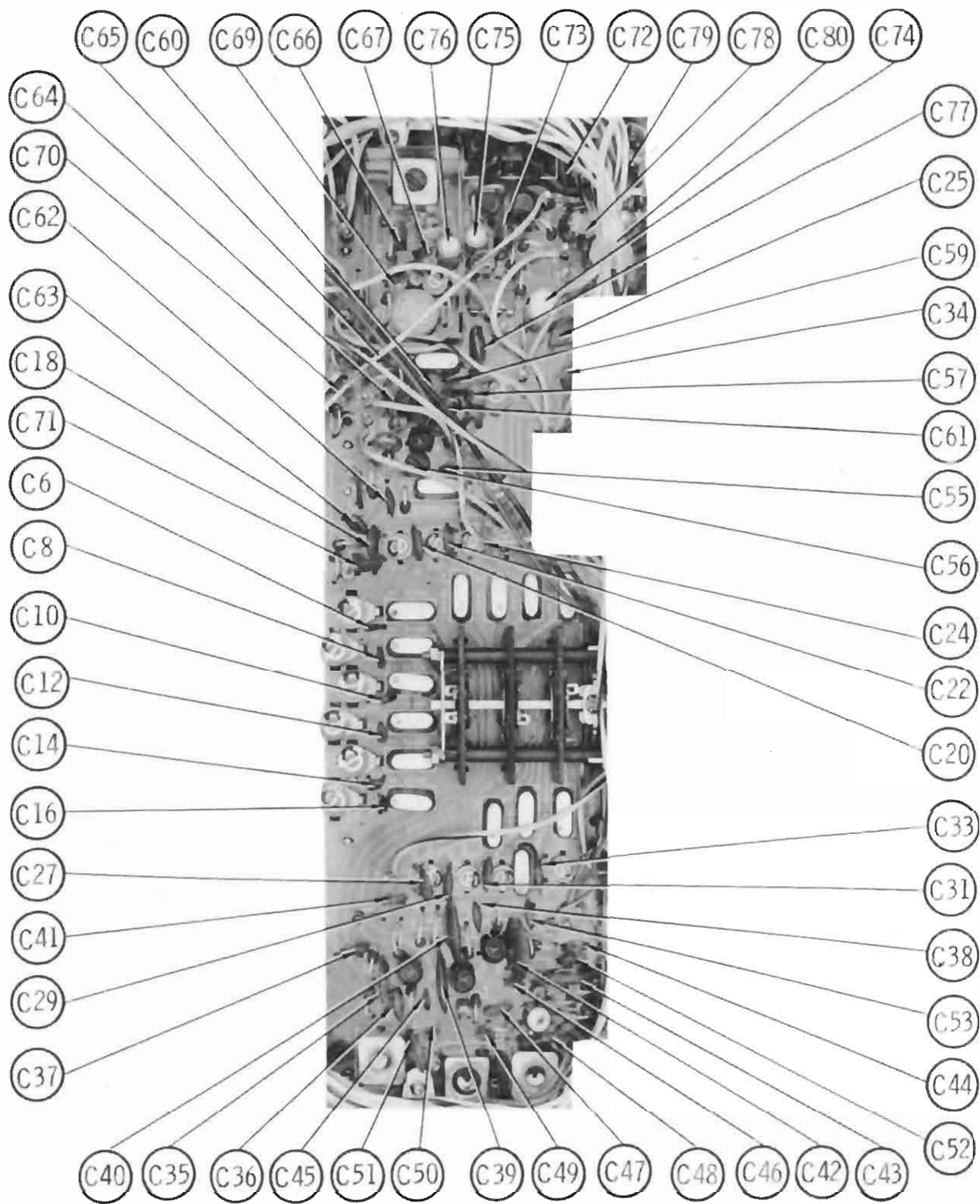
GENERATOR BOARD



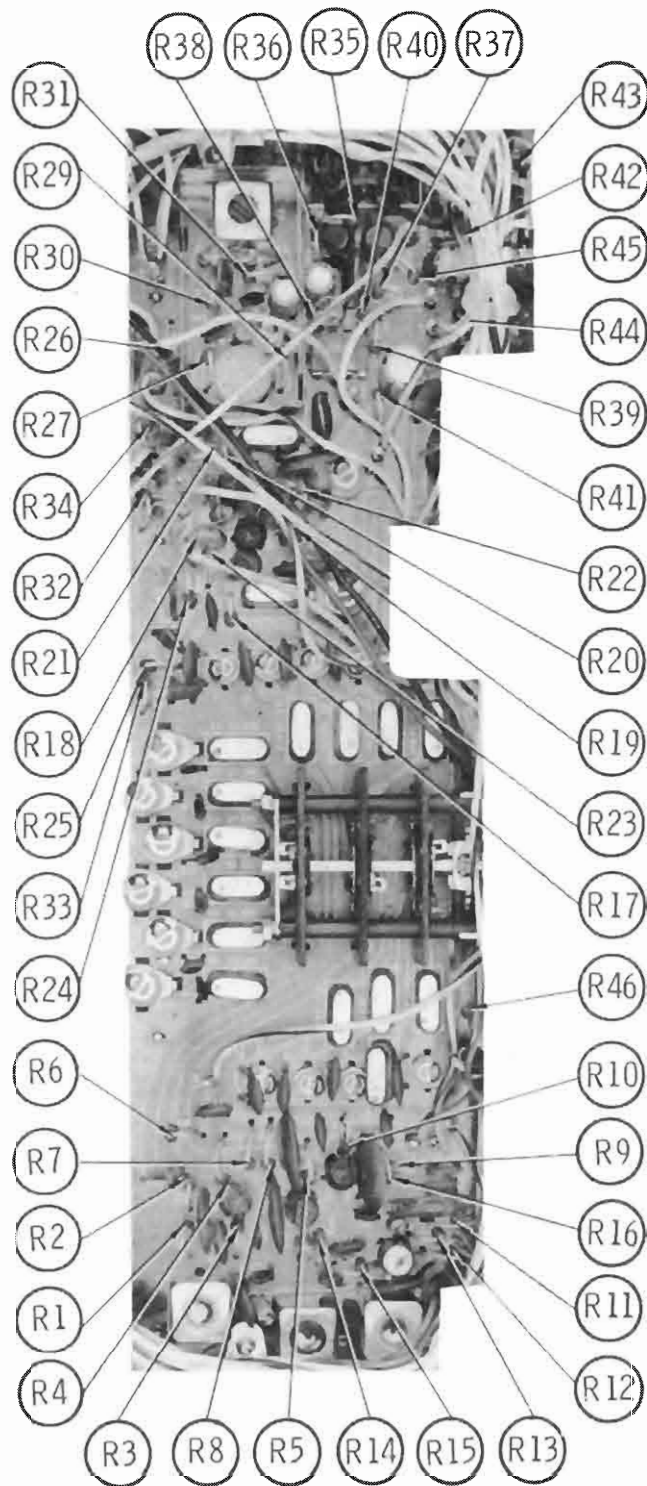
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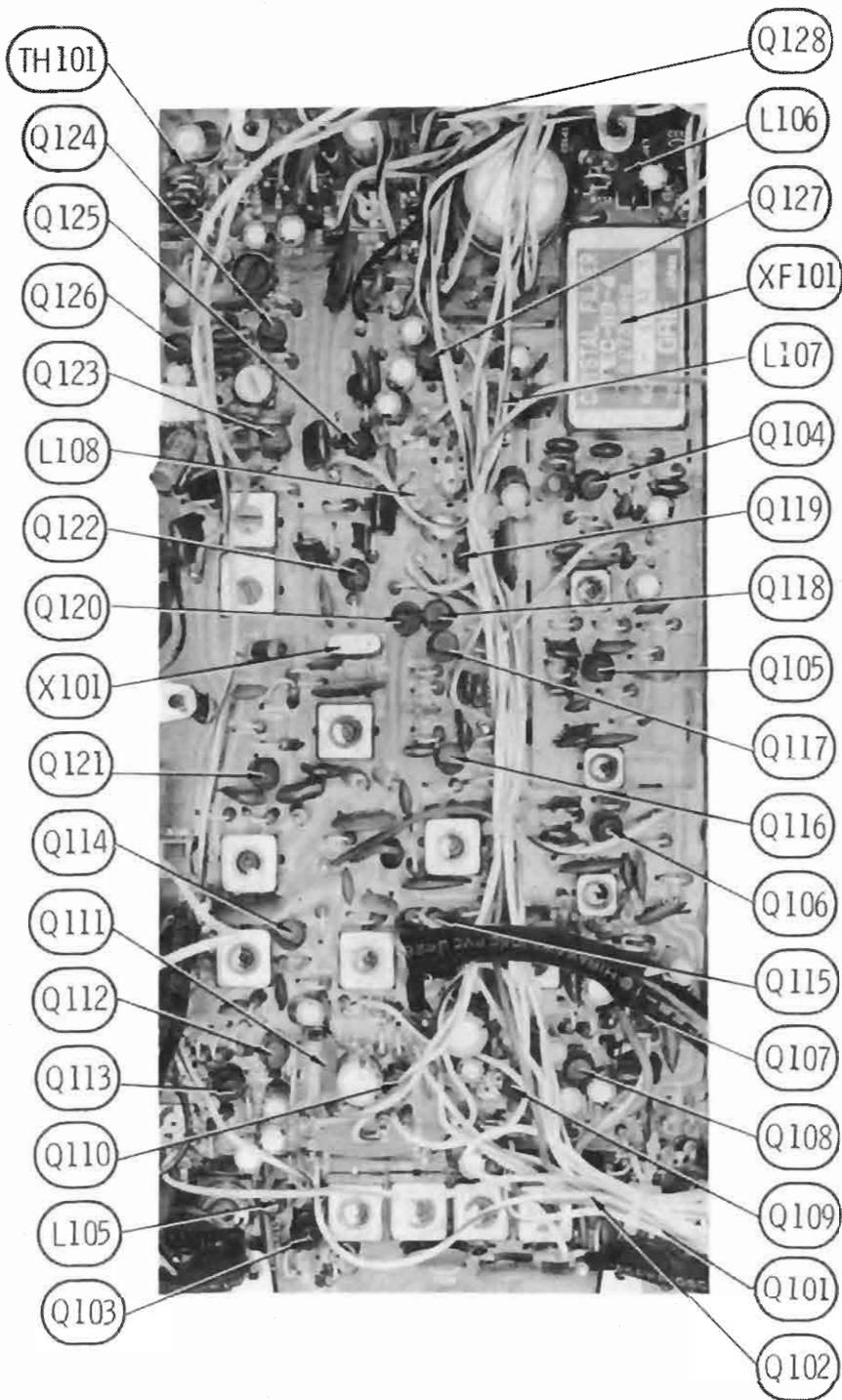
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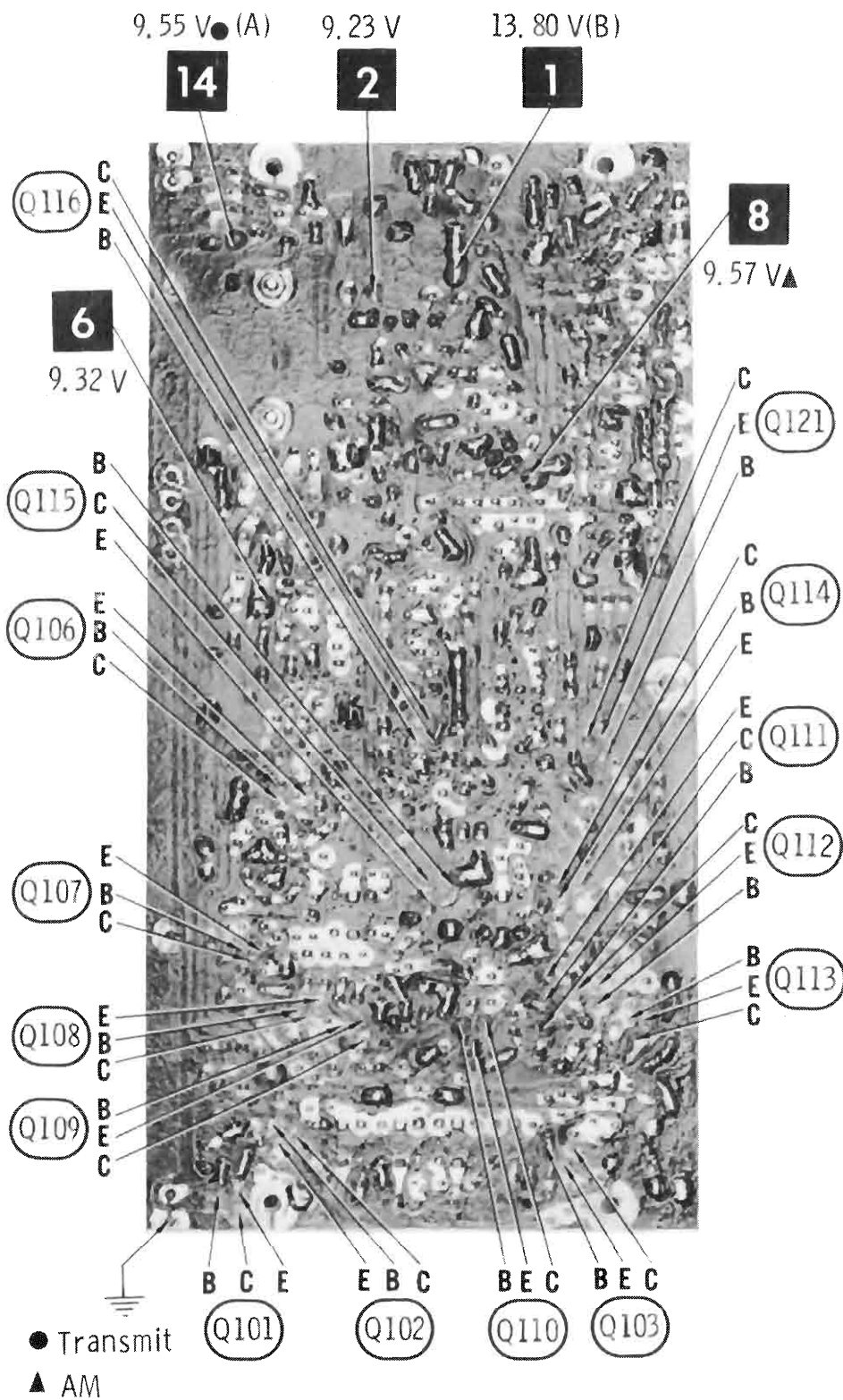
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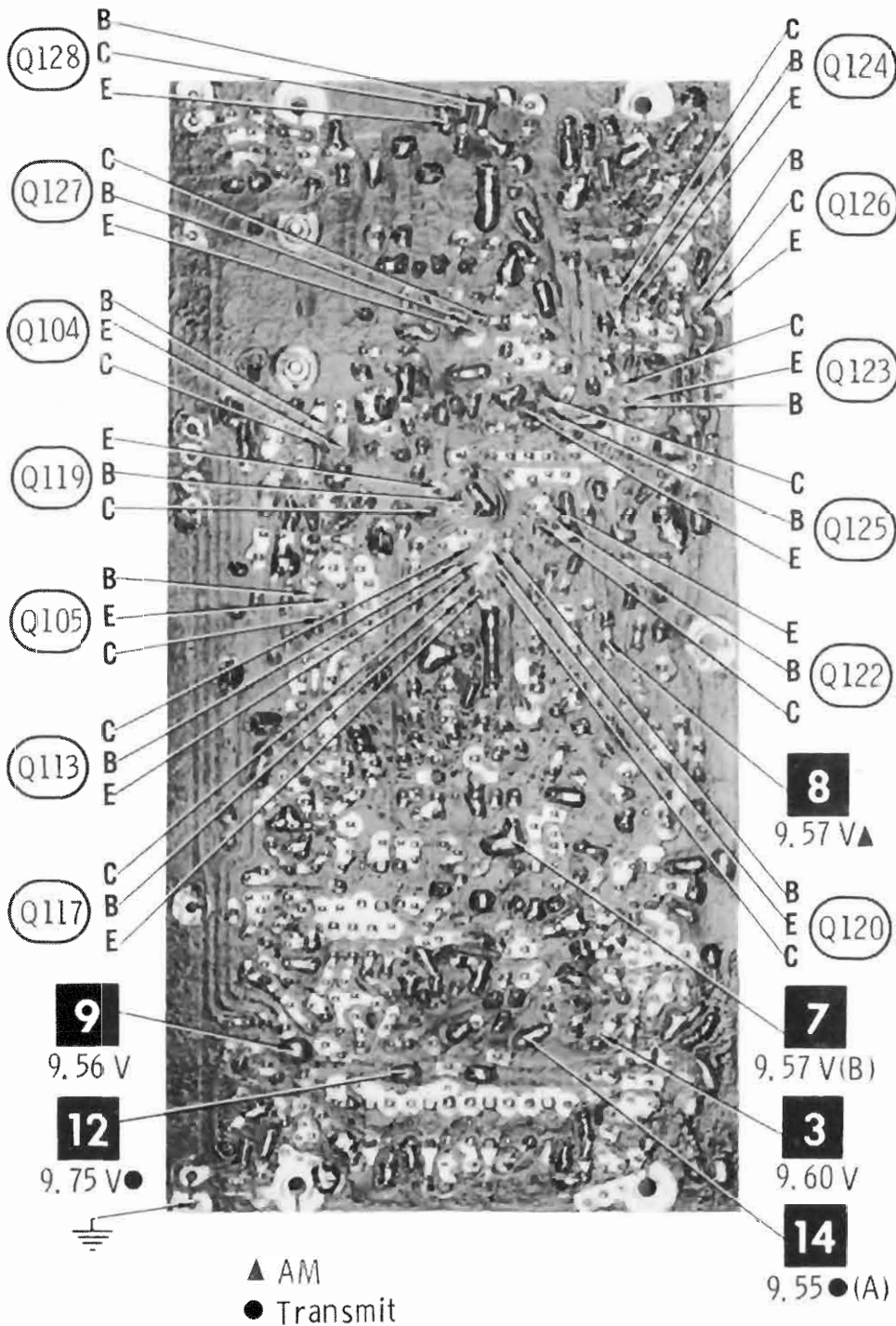
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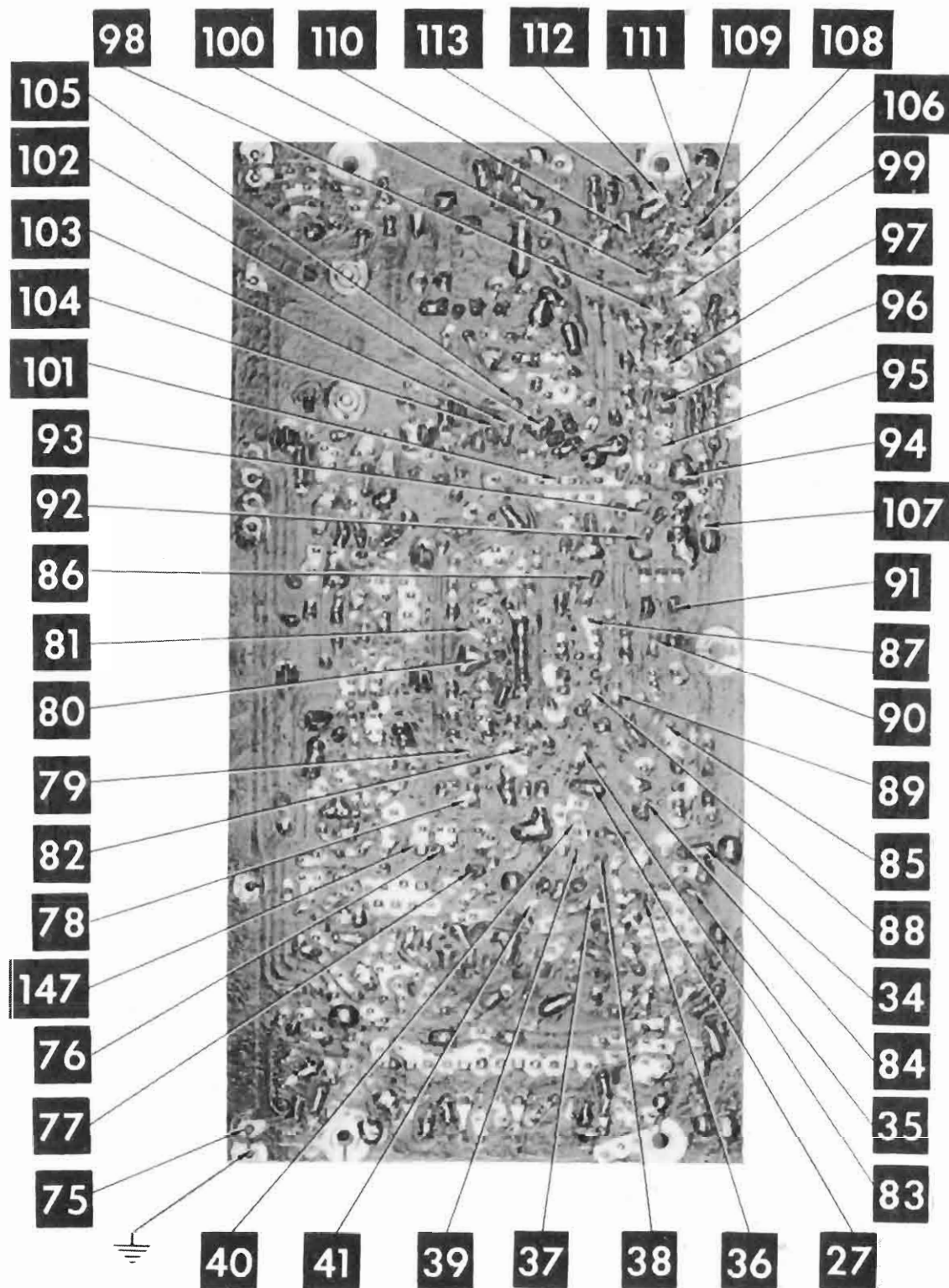
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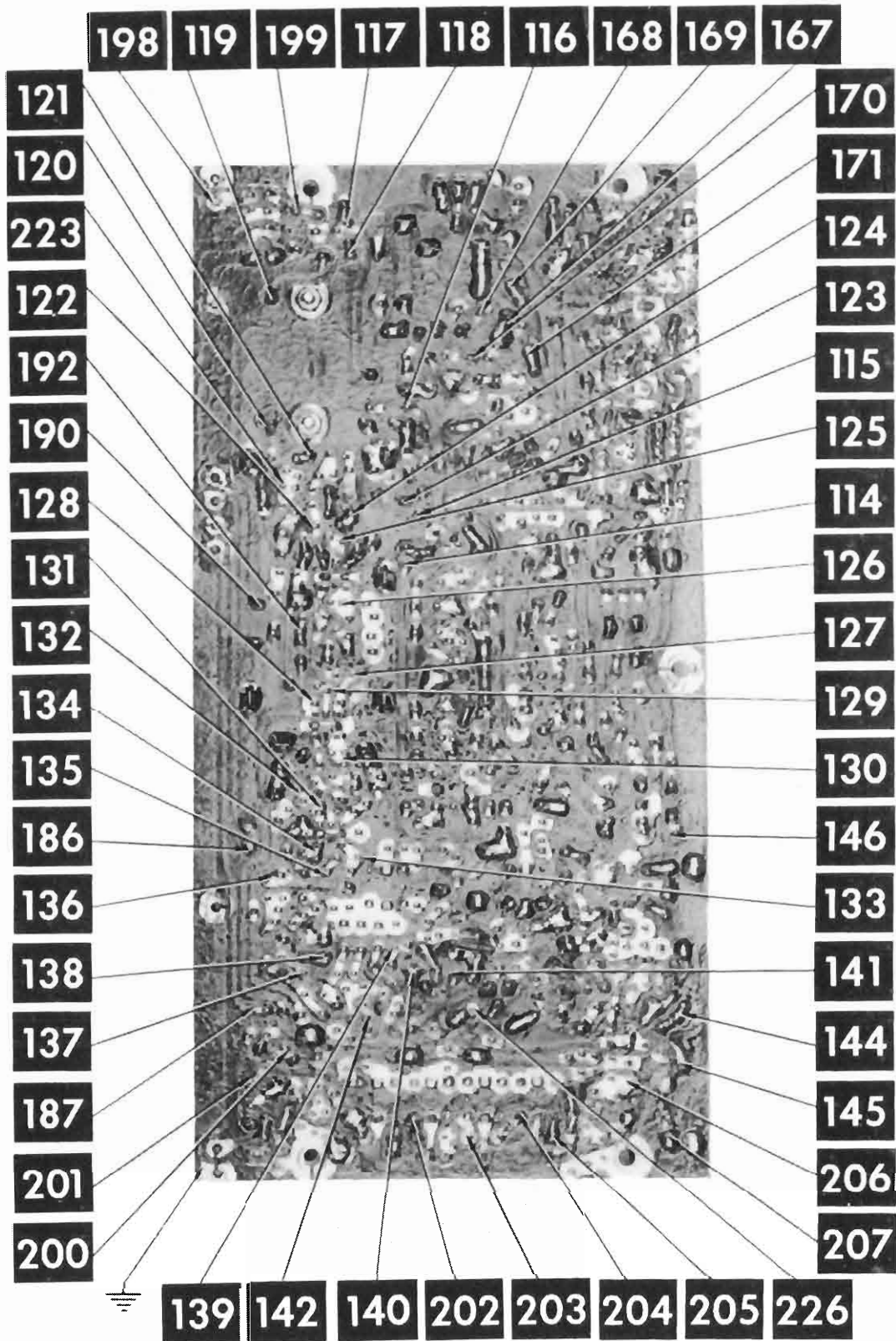
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IF BOARD

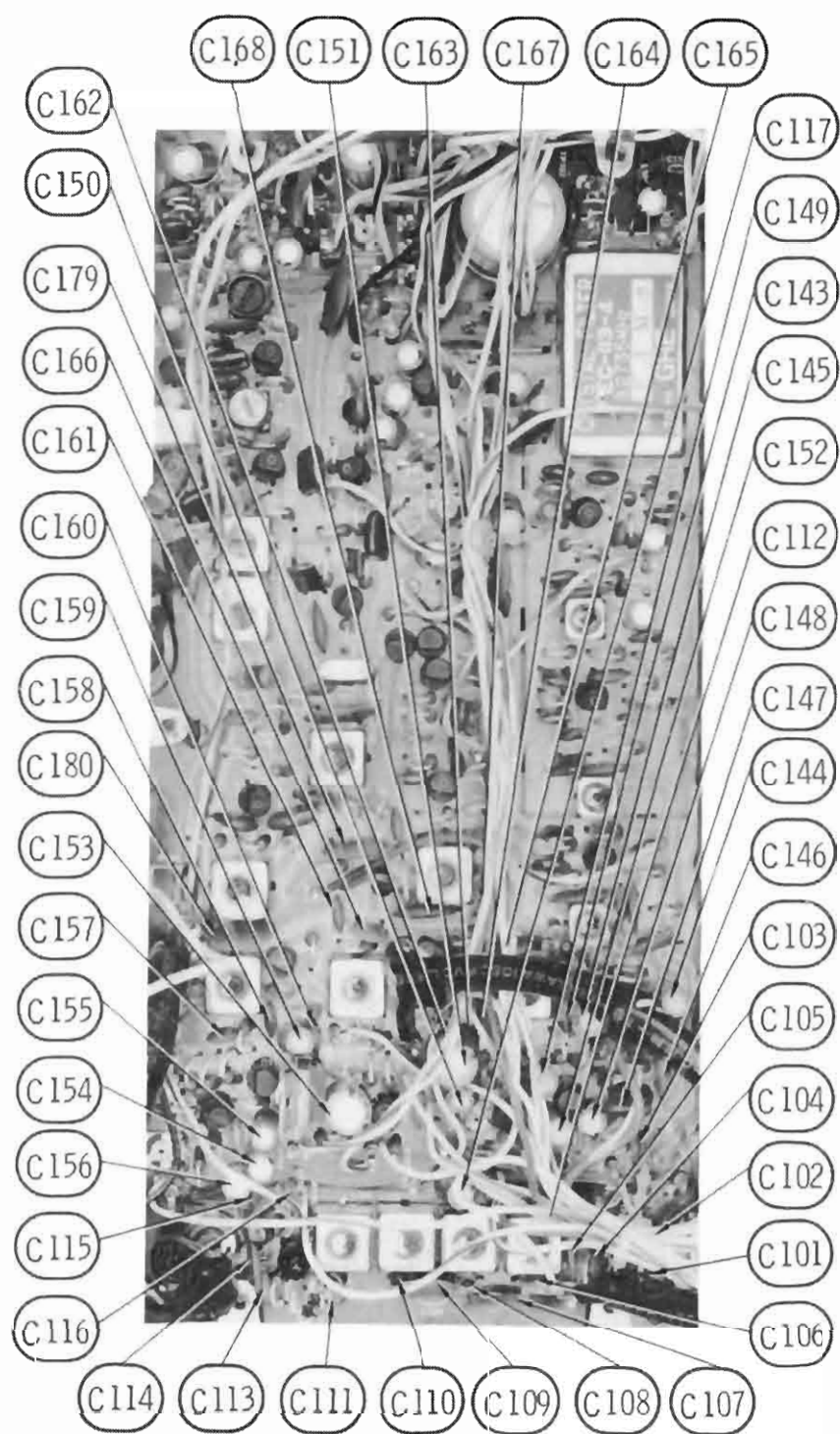


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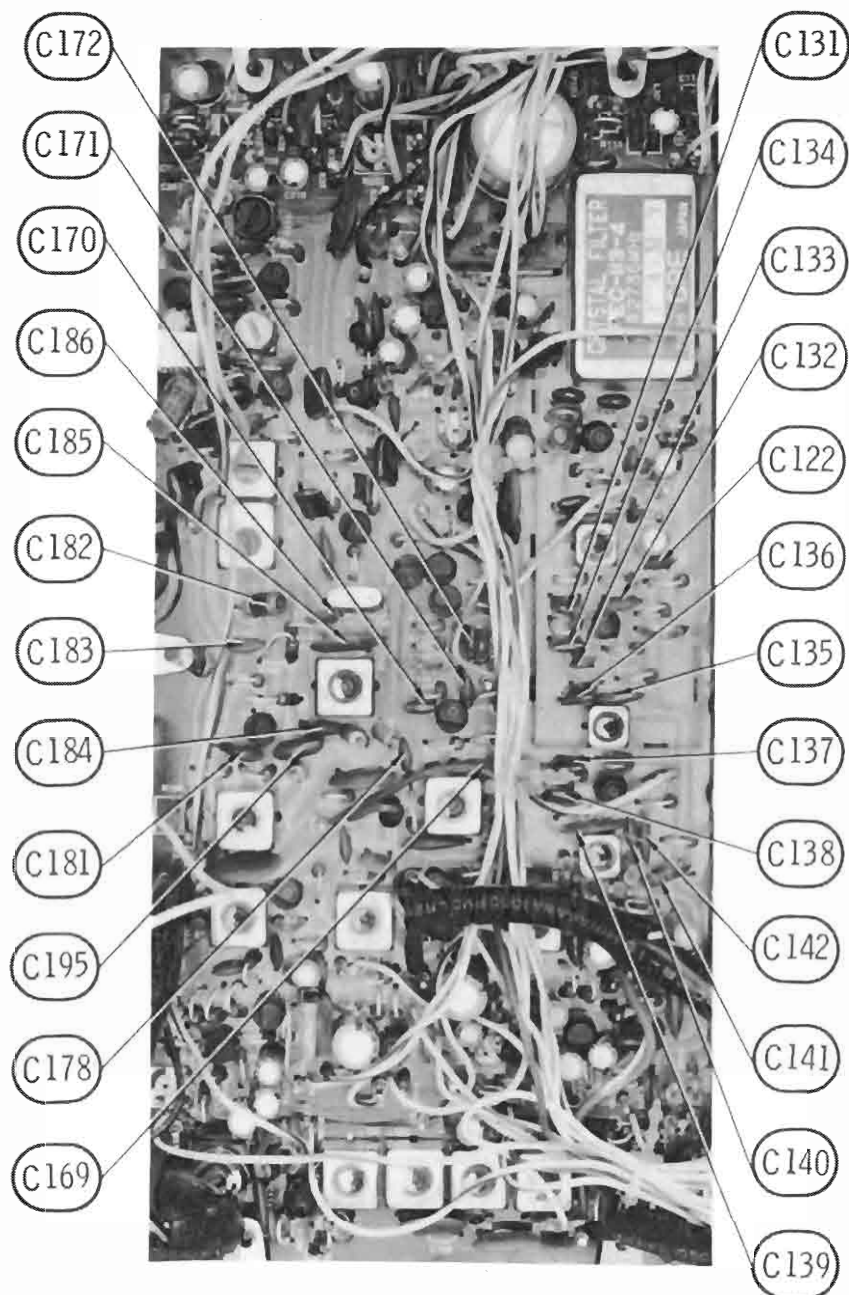


REALISTIC MODEL TRC-48

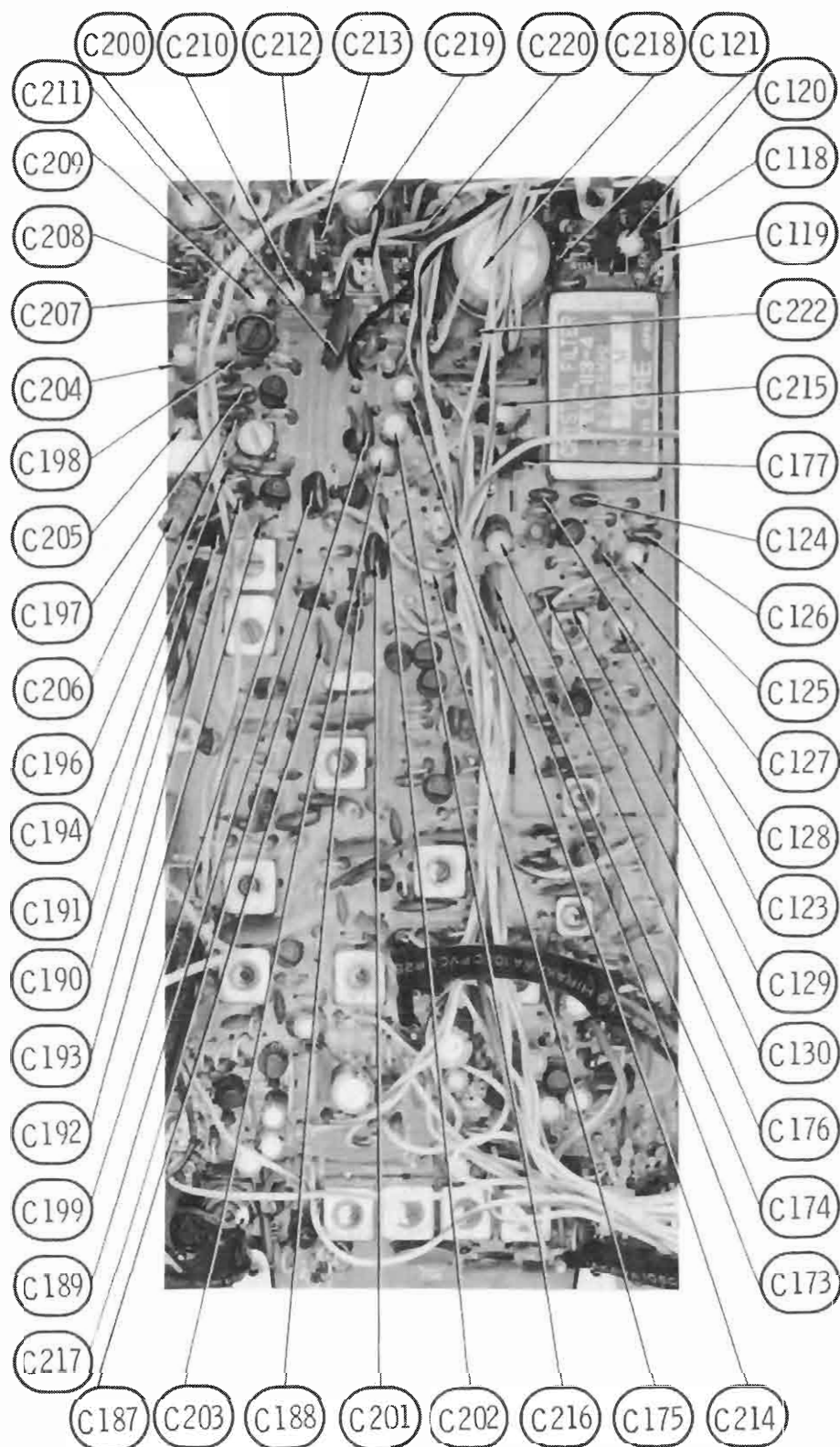
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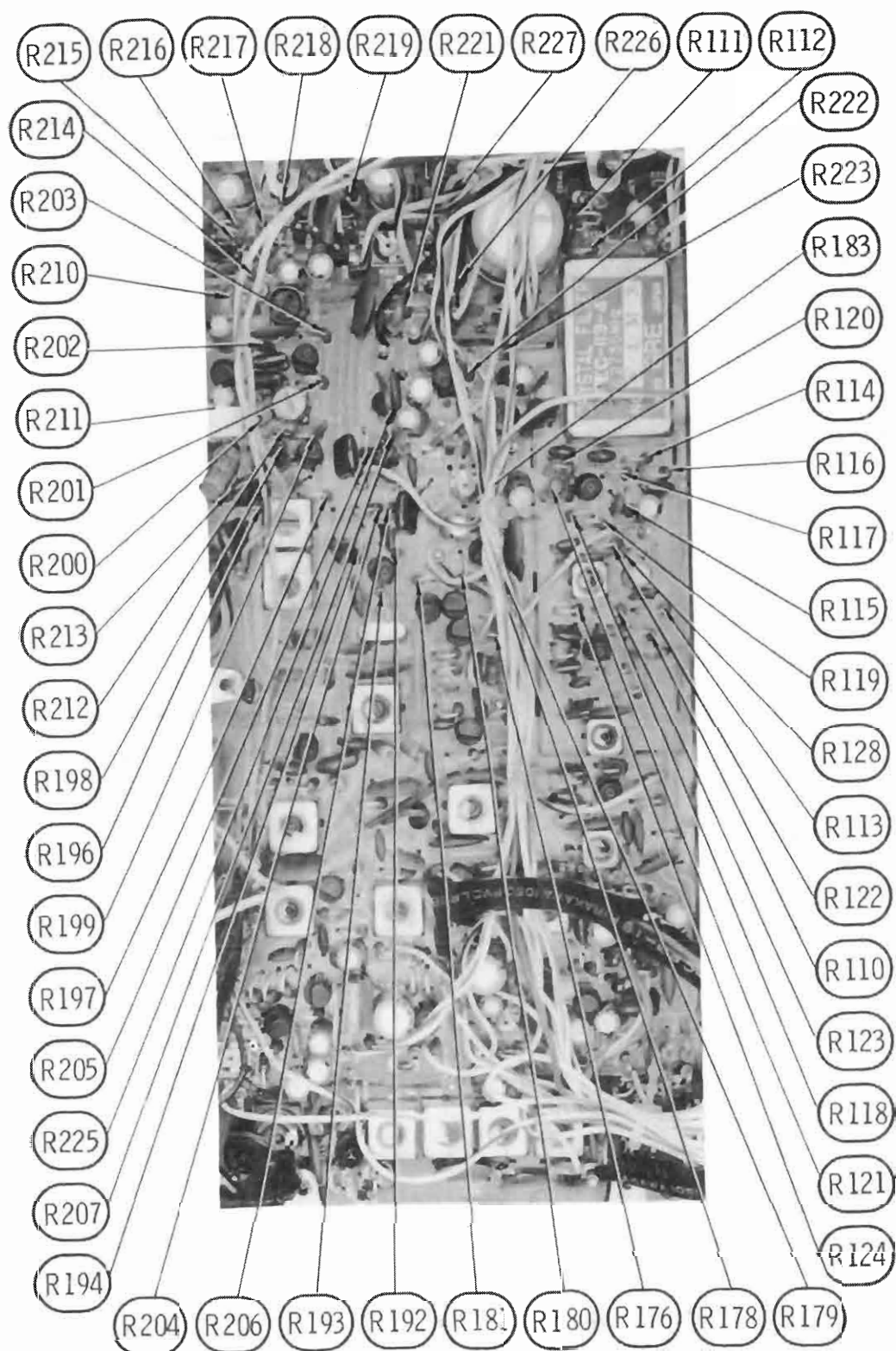
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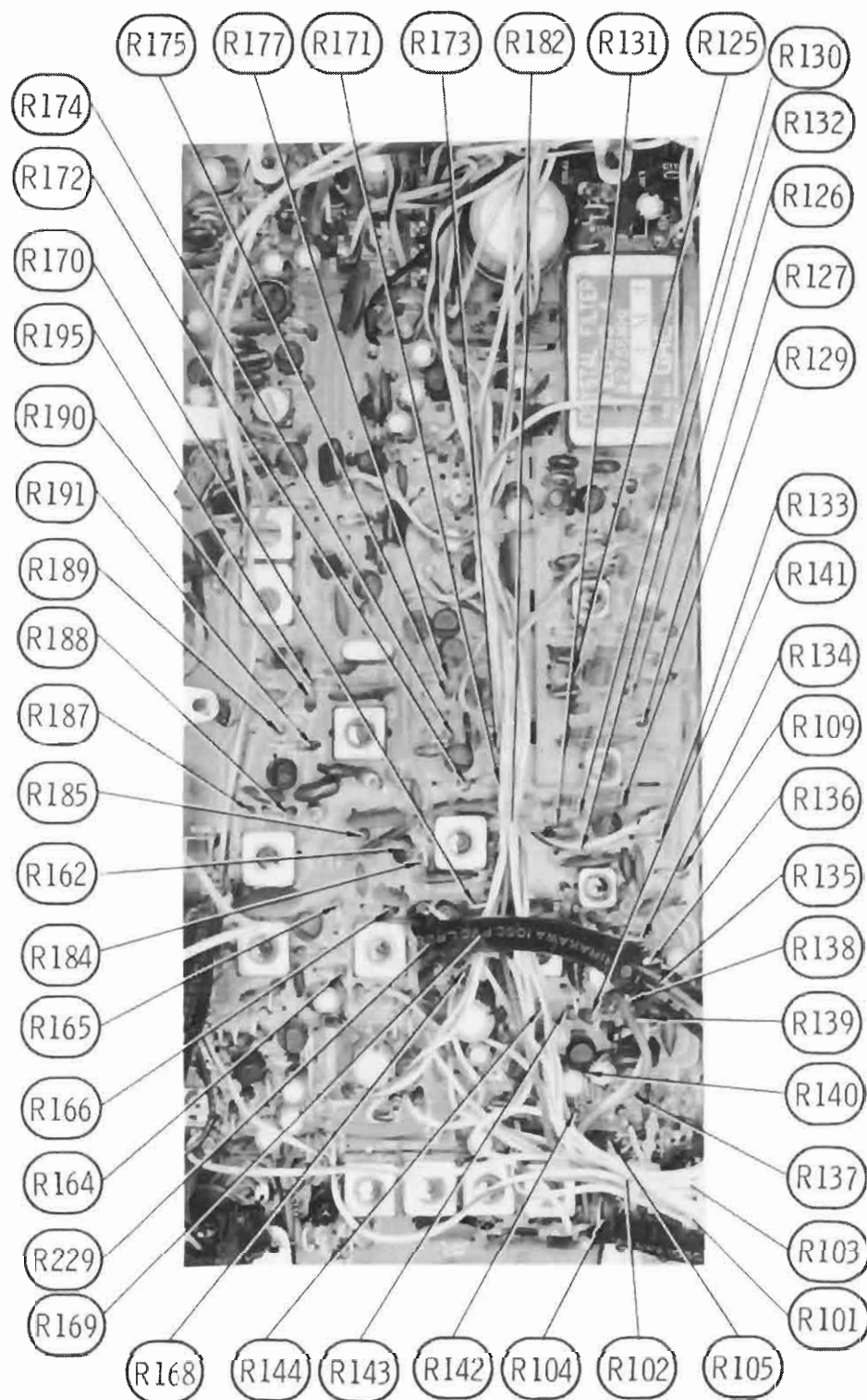
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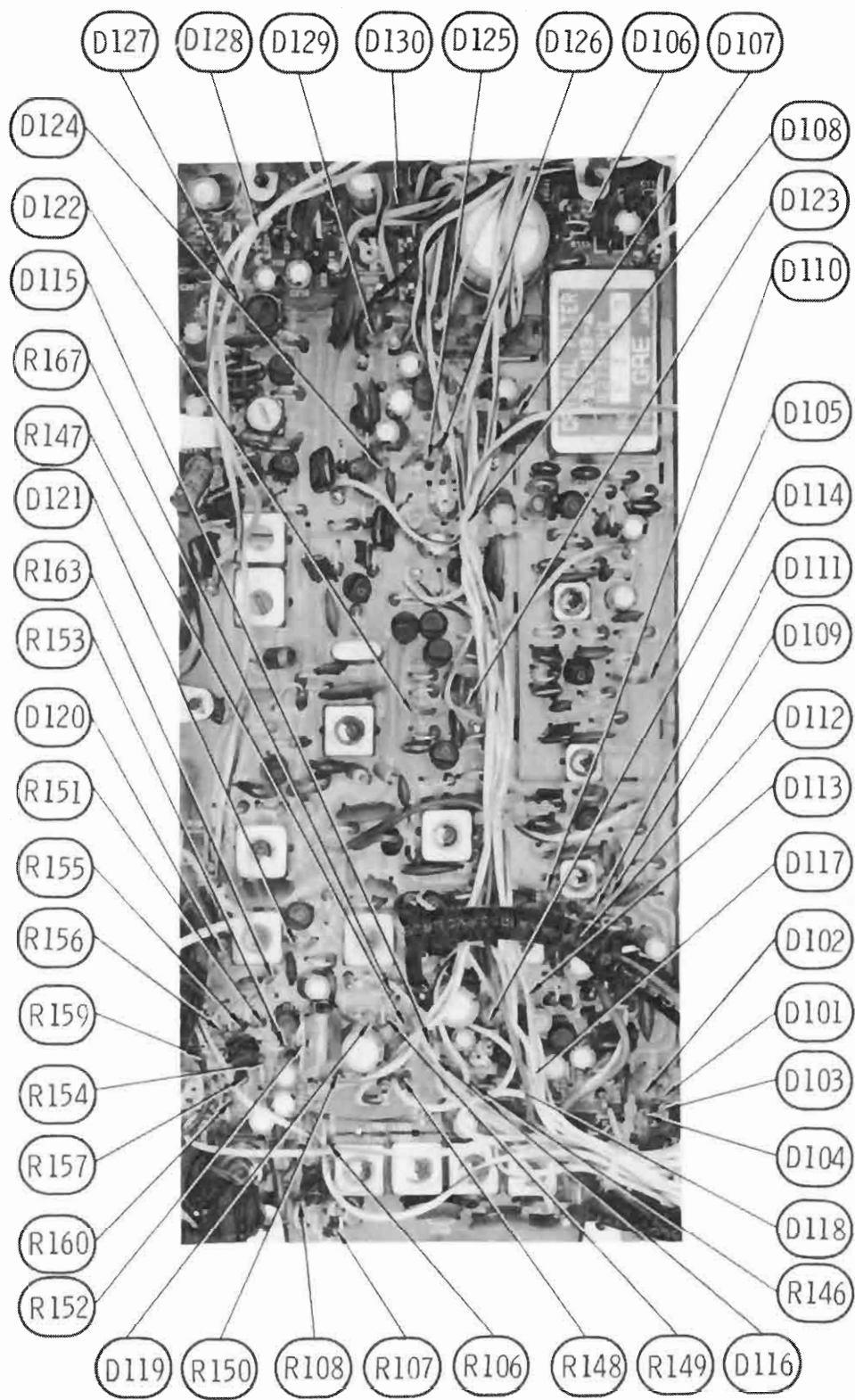
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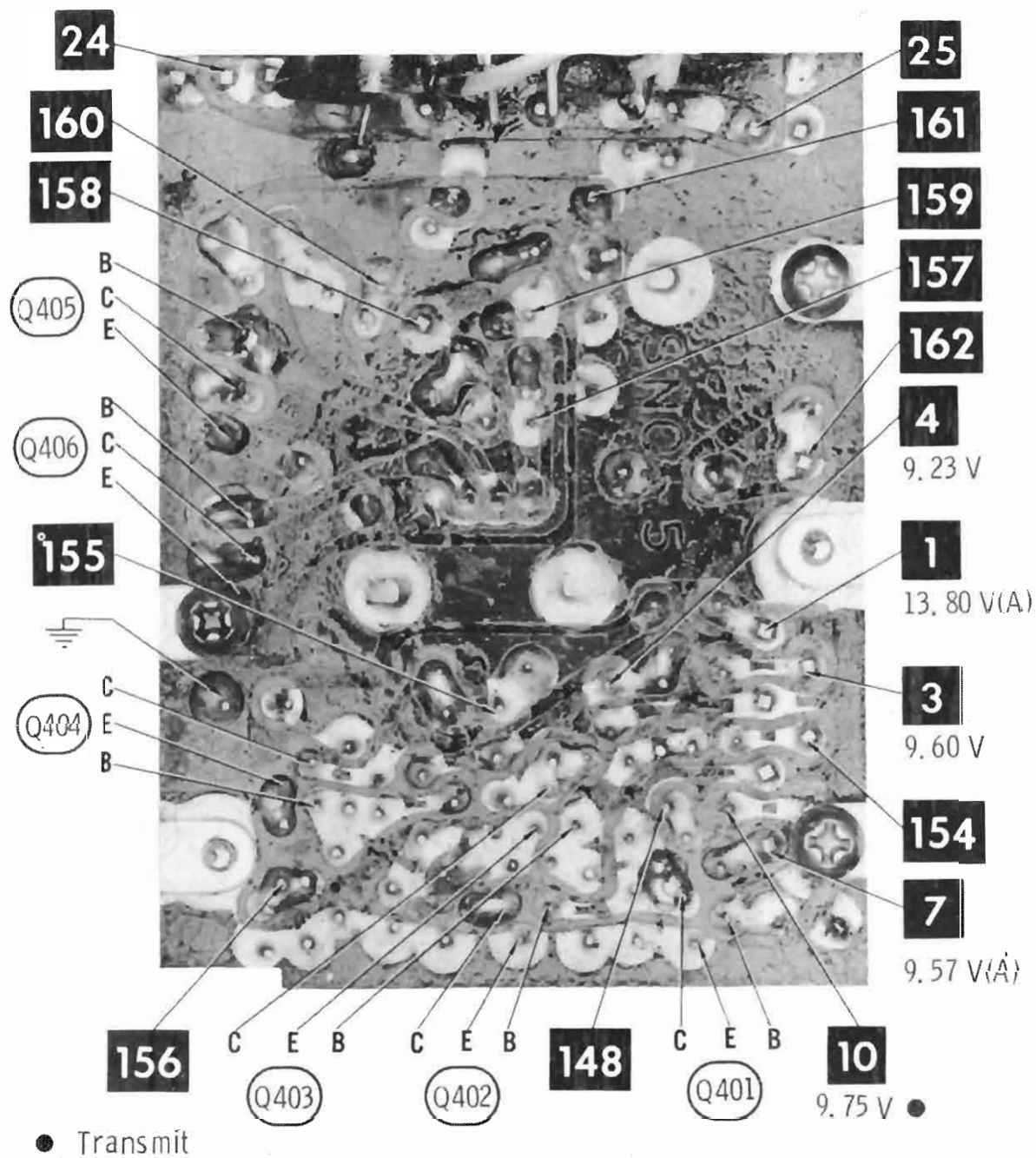
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IF BOARD



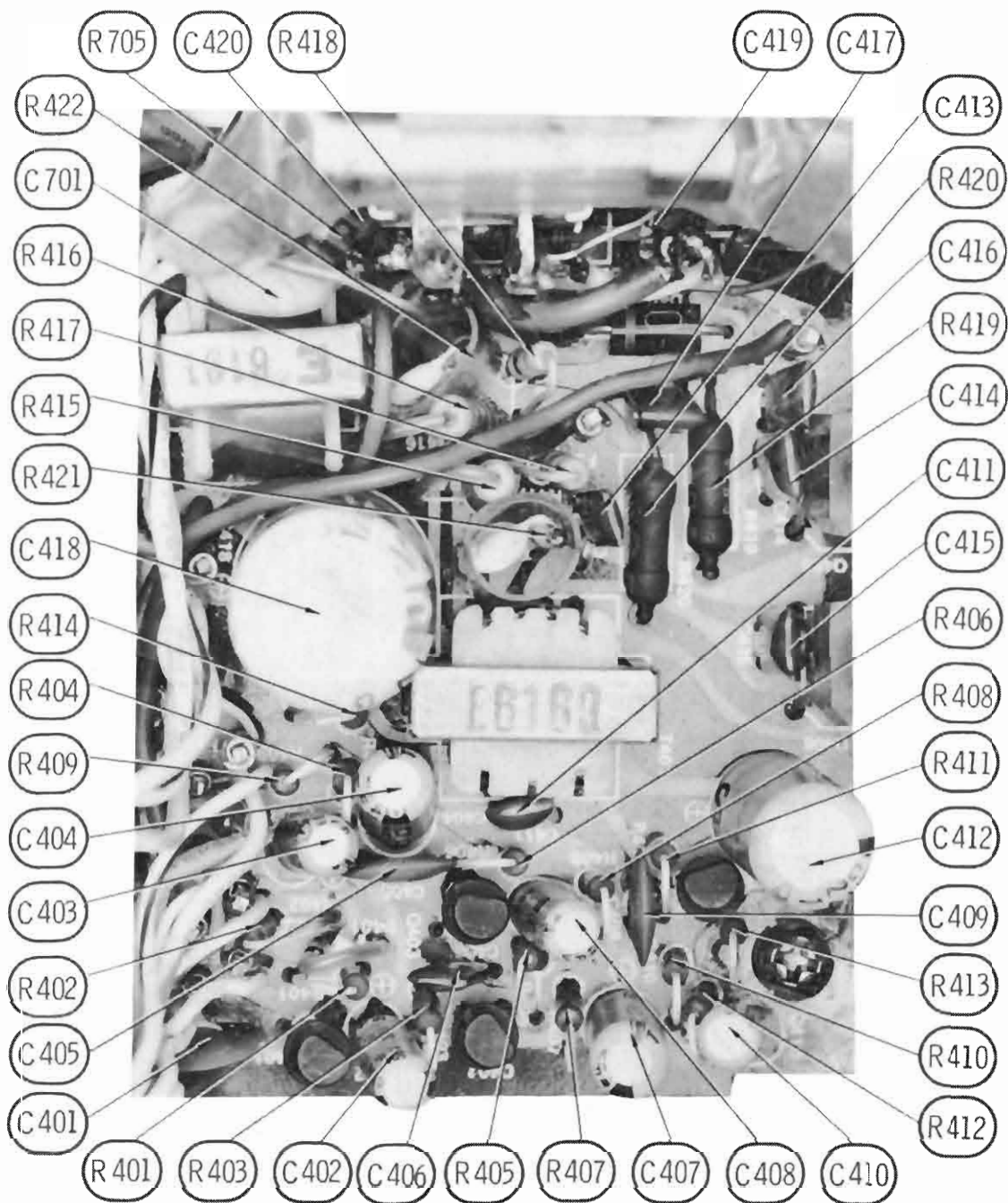
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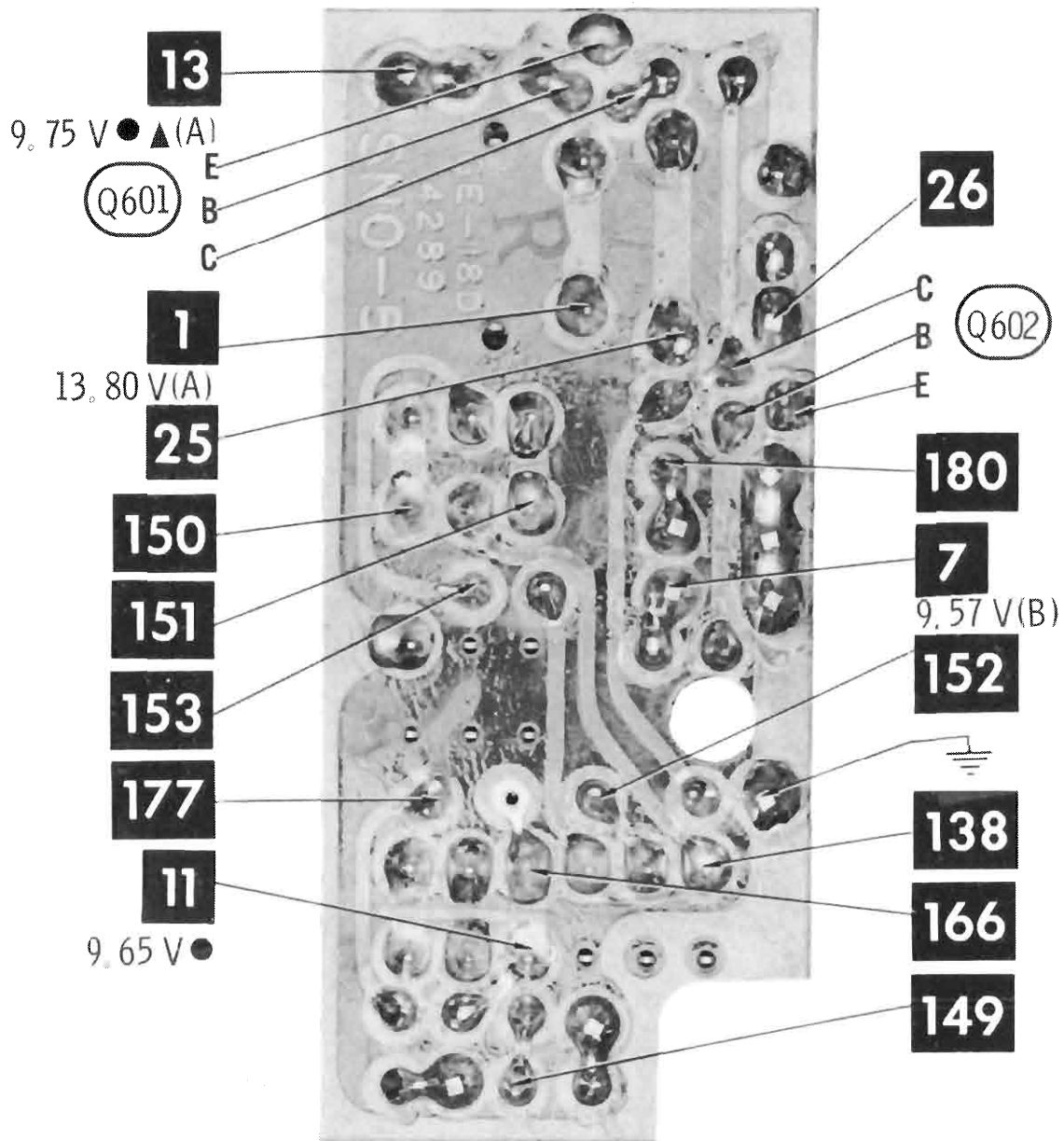
AUDIO BOARD



AUDIO BOARD

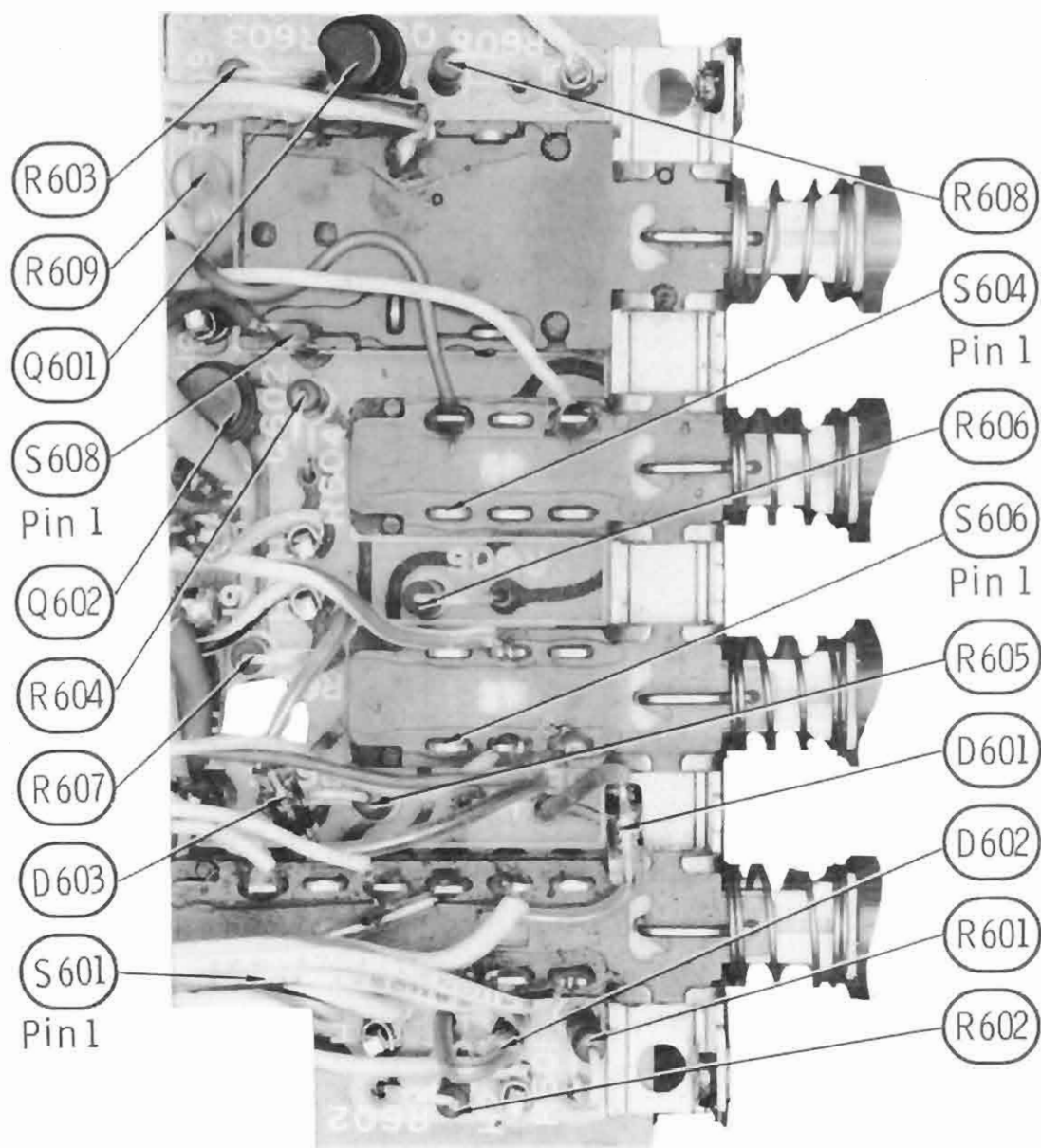


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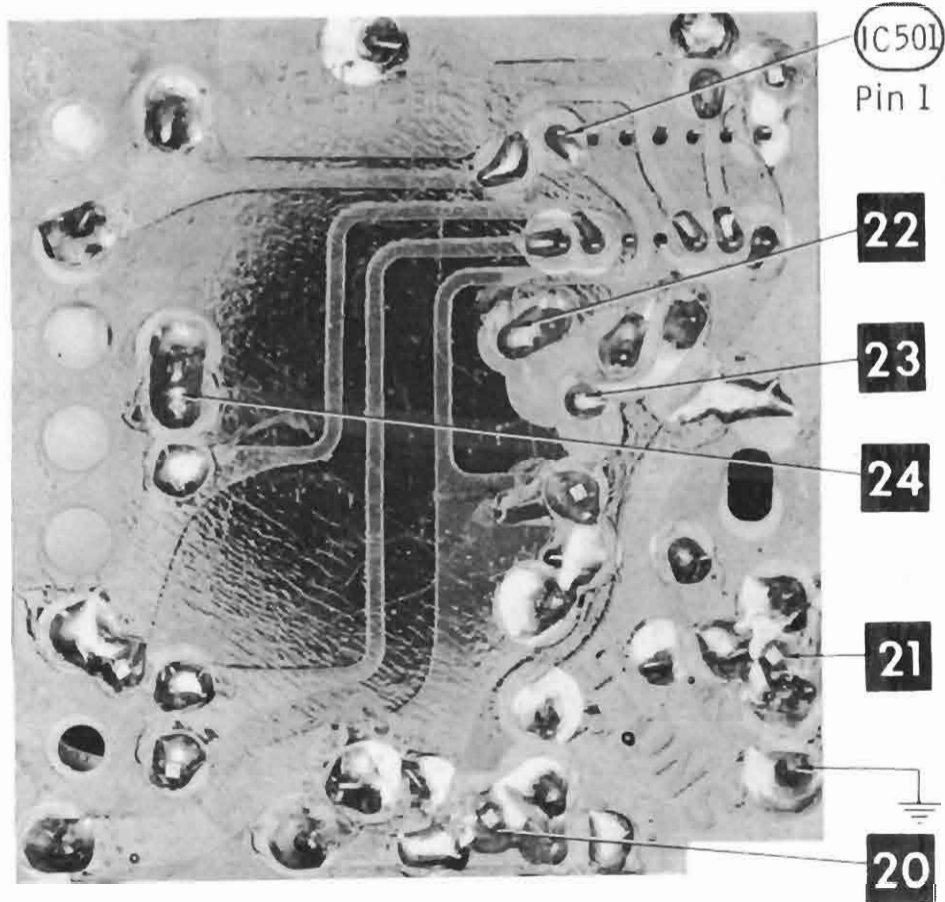


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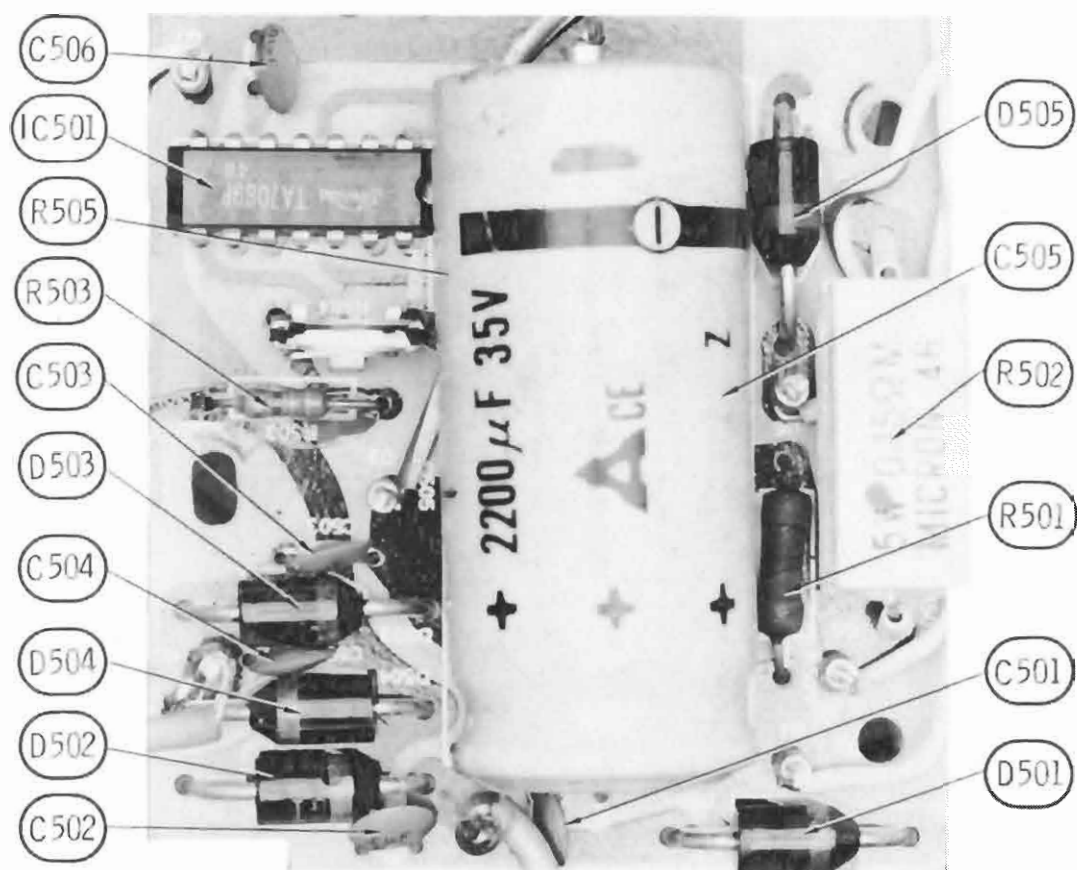
SWITCH BOARD



SWITCH BOARD



POWER SUPPLY BOARD



POWER SUPPLY BOARD

PARTS LIST AND DESCRIPTION

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

WIRING DATA

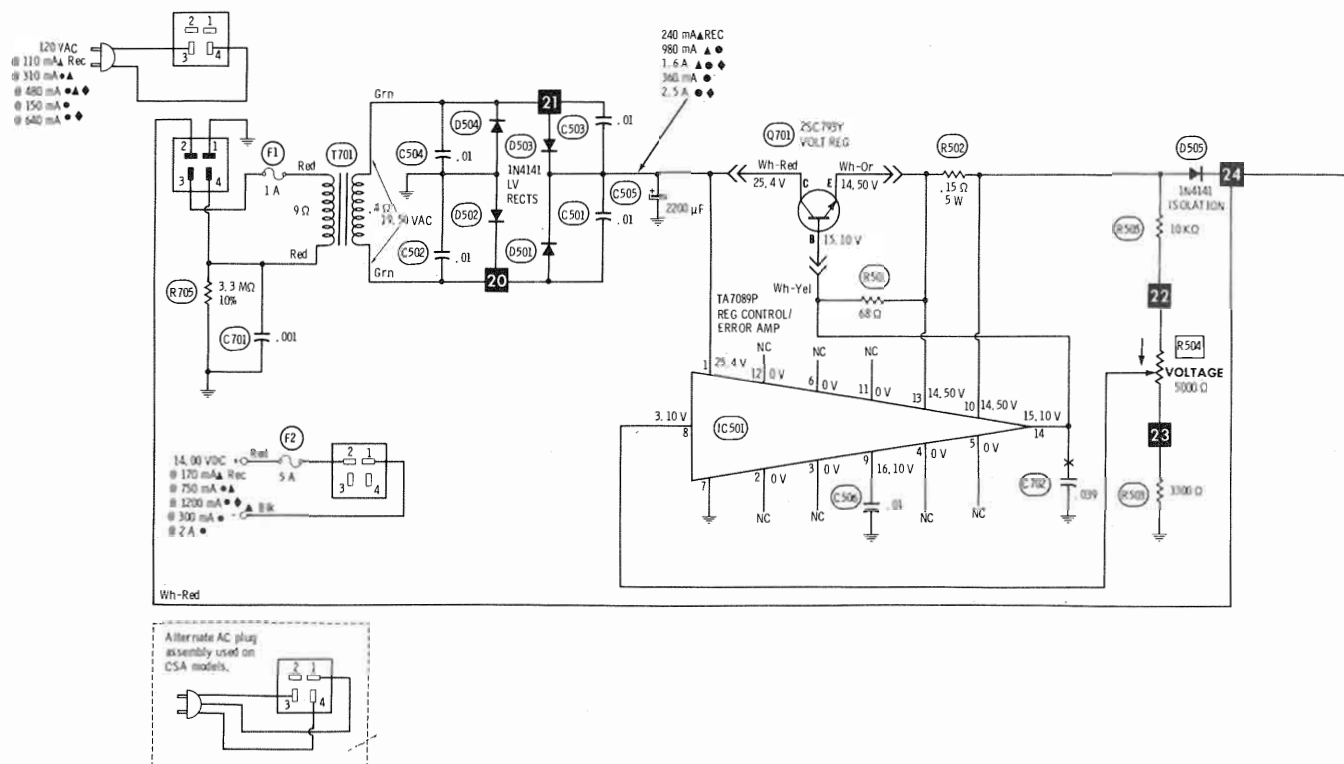
General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet 17109 (Plastic) or 17129 (Rubber) -9 feet
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type) 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 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. 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	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D2	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D6	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D7	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D8	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D10	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D101	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D102	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D103	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D104	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D105	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D106	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D107	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D108	HV-80		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D109	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D110	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D111	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D112	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D113	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D114	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D115	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D116	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D117	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D118	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D119	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D120	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D121	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D122	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D123	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D124	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D125	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D126	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D127	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D128	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D129	S18-01-02		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D130	R010EB				ZB10B				RT-241	ECG140
D301	AW-01-33 (10 Volt 5% Zener) (33 Volt Zener)		GEZD-33	Z1222	PTC512	HEPZ0426	RE 130	SK3095	RT-250	ECG147
D302	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D303	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D304	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D401	HV-80		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D402	S18-01-02		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D403	S18-01-02		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D404	S18-01-02		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D501	1N4141		GE-512	3F20D	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG5802
D502	1N4141		GE-512	3F20D	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG5802
D503	1N4141		GE-512	3F20D	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG5802
D504	1N4141		GE-512	3F20D	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG5802
D505	1N4141		GE-512	3F20D	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG5802
D601	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D602	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D603	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
IC1	ML307S LM307N(')									
IC501	TA7089P									
Q1	2SC394Y		GE-17	(1R)2SC460B	PTC121	HEPS0014	RE 9	SK3122	RT-107A	ECG123A
Q2	2SC394Y		GE-17	(1R)2SC460B	PTC121	HEPS0014	RE 9	SK3122	RT-107A	ECG123A
Q3	2SC394Y		GE-17	(1R)2SC460B	PTC121	HEPS0014	RE 9	SK3122	RT-107A	ECG123A
Q4	3SK45B		GE-FE-4		PTC181	HEPF2004		SK3050	RT-181	ECG222
Q5	2SC394Y		GE-17	(1R)2SC460B	PTC121	HEPS0014	RE 9	SK3122	RT-107A	ECG123A
Q6	2SC394Y		GE-17	(1R)2SC460B	PTC121	HEPS0014	RE 9	SK3122	RT-107A	ECG123A
Q7	2SC373		GE-62	(1R)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q8	2SC373		GE-62	(1R)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q101	2SC373		GE-62	(1R)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q102	2SC735Y		GE-21J	TR-21	PTC123	HEPS0015	RE 13	SK3122	RT-172	ECG123A
Q103	2SC735Y		GE-21J	TR-21	PTC123	HEPS0015	RE 13	SK3122	RT-172	ECG123A
Q104	2SC371-0		GE-20	TR-33	PTC121	HEPS0011	RE 13	SK3018	RT-102	ECG123A
Q105	2SC371-0		GE-20	TR-33	PTC121	HEPS0011	RE 13	SK3018	RT-102	ECG123A
Q106	2SC371-0		GE-20	TR-33	PTC121	HEPS0011	RE 13	SK3018	RT-102	ECG123A
Q107	2SC373		GE-62	(1R)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199

(CONTINUED ON PAGE 84)

REALISTIC MODEL TRC-48



—*— Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

⊗ Nominal value

⊕ Ground

/// Chassis

▽ Common tie point

Measurements with switching as shown unless noted:

■ Squelch fully clockwise ◆ 100% modulation

● Transmit ★ LSB ▲ AM

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Arrow at control indicates direction of advance.

Terminal identification may not be found on unit.

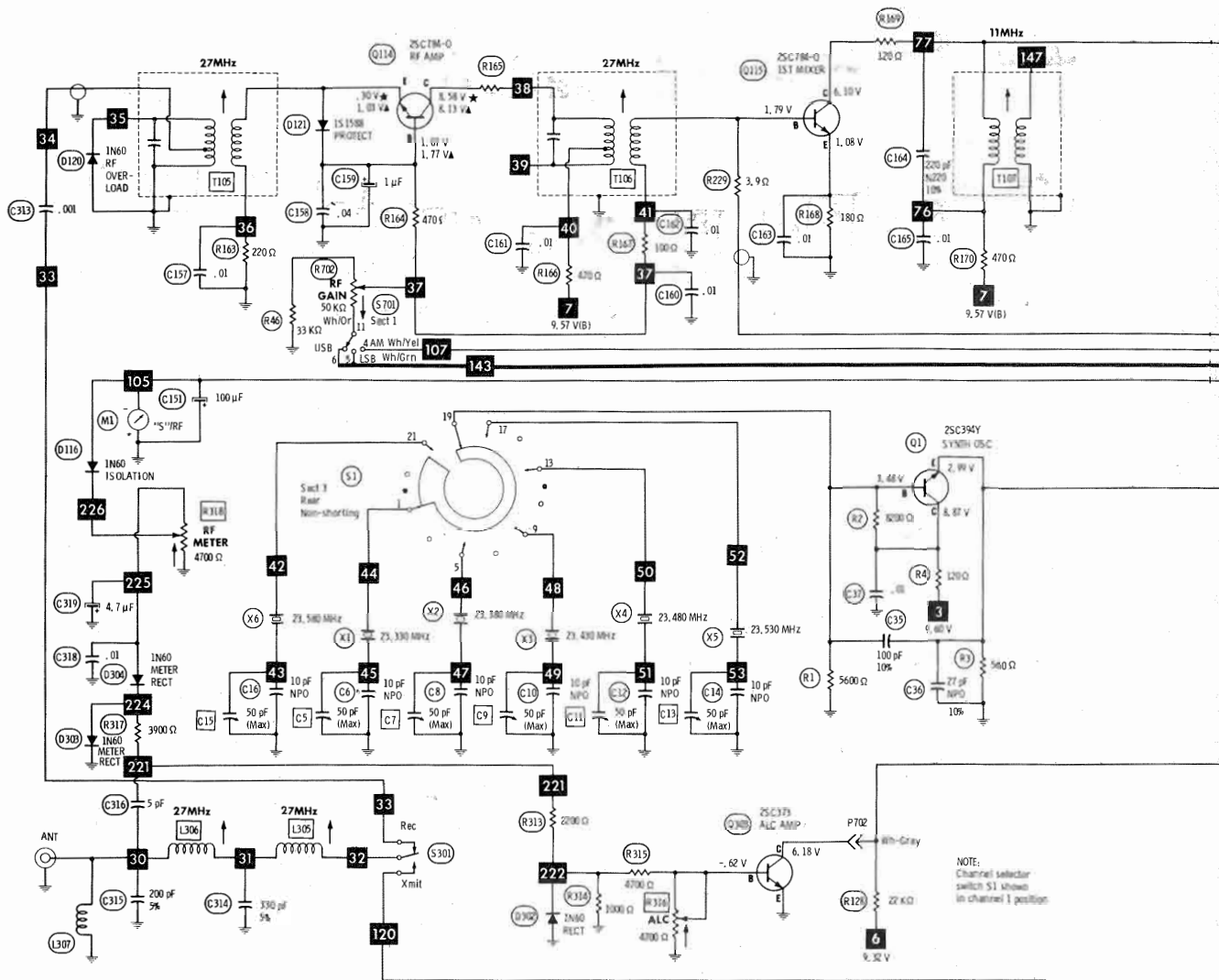
Resistors are 1/2W or less, 5% unless noted.

Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE®

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—X— Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

✱ Nominal value

⊥ Ground

Chassis

▽ Common tie point

Measurements with switching as shown unless noted:

■ Squelch fully clockwise ◆ 100% modulation

● Transmit ★ LSB ▲ AM

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Arrow at control indicates direction of advance.

Terminal identification may not be found on unit.

Resistors are 1/2W or less, 5% unless noted.

Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE®

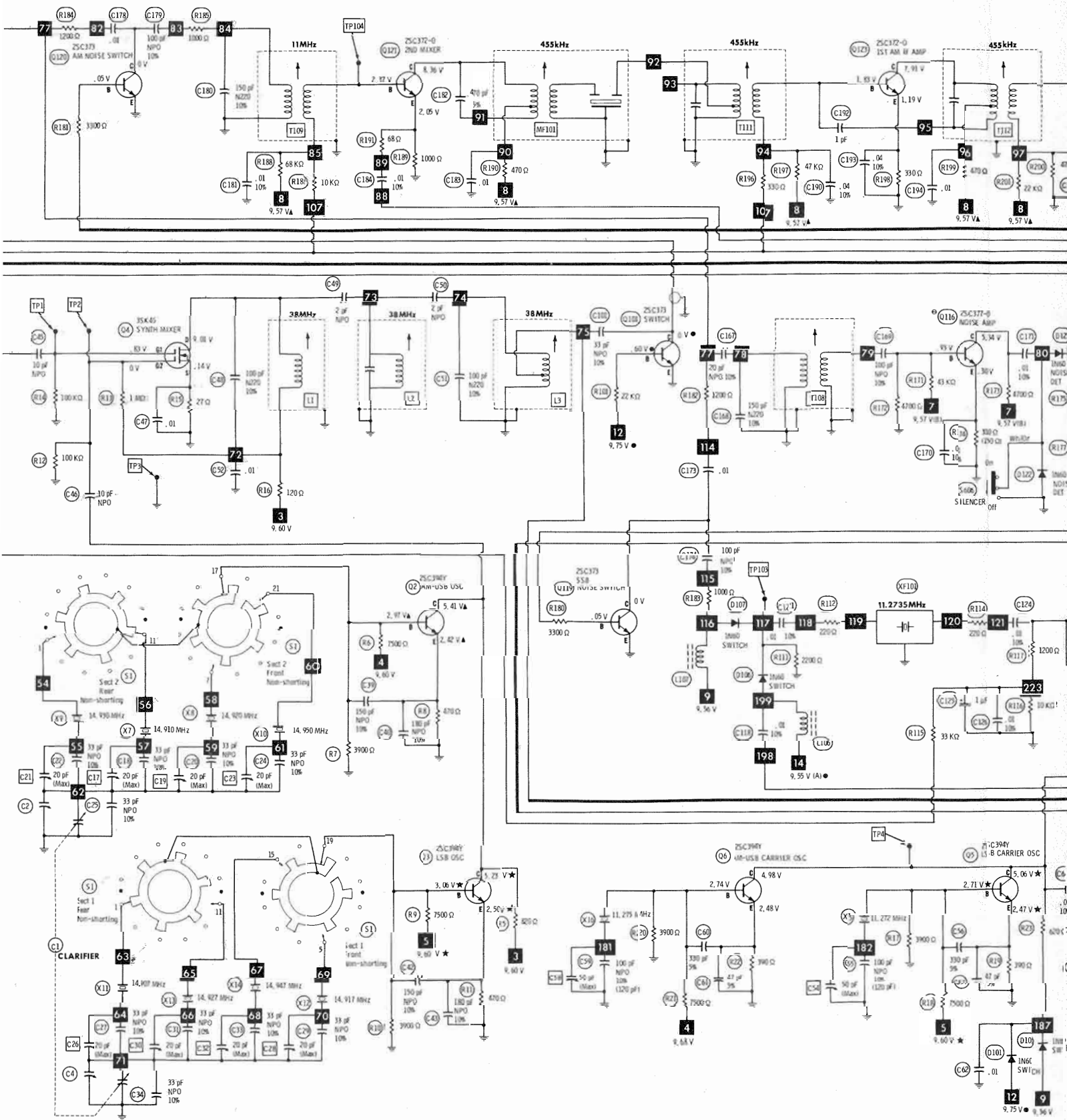
© Howard W. Sams & Co., Inc. 1976

AM-USB

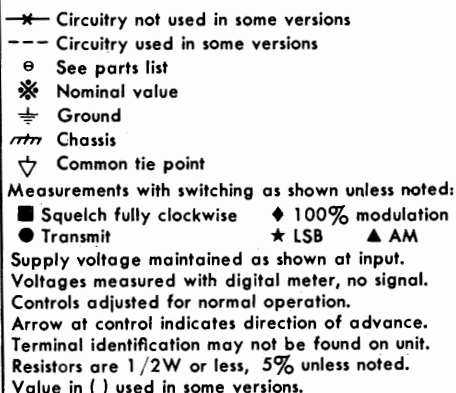
Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X7, X16	7	X2, X8, X16	13	X4, X7, X16	19	X3, X9, X16
2	X1, X8, X16	8	X2, X9, X16	14	X4, X8, X16	20	X5, X10, X16
3	X1, X9, X16	9	X3, X7, X16	15	X4, X9, X16	21	X6, X7, X16
4	X1, X10, X16	10	X3, X8, X16	16	X4, X10, X16	22	X6, X8, X16
5	X2, X7, X16	11	X3, X9, X16	17	X5, X7, X16		
6	X2, X8, X16	12	X1, X10, X16	18	X5, X8, X16	23	X6, X10, X16

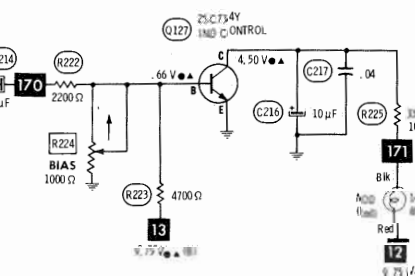
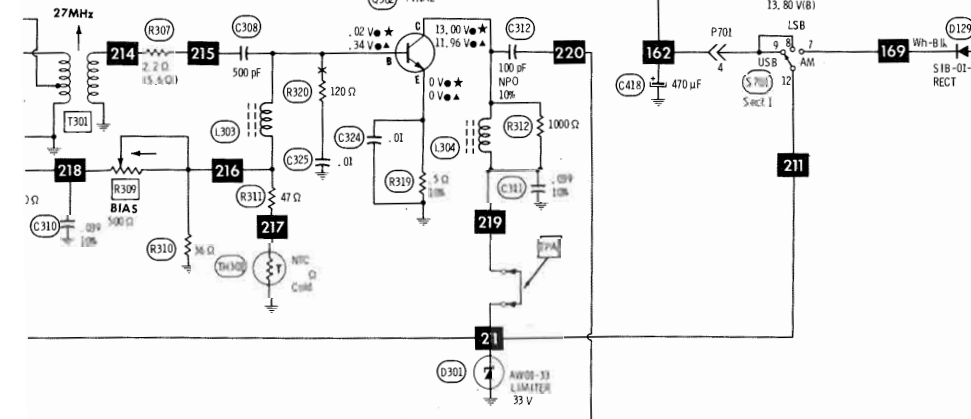
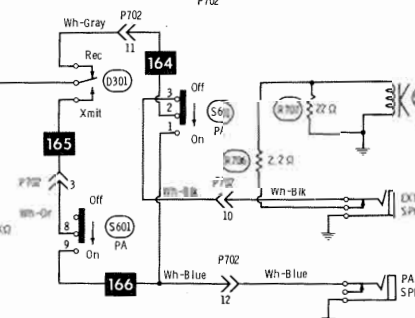
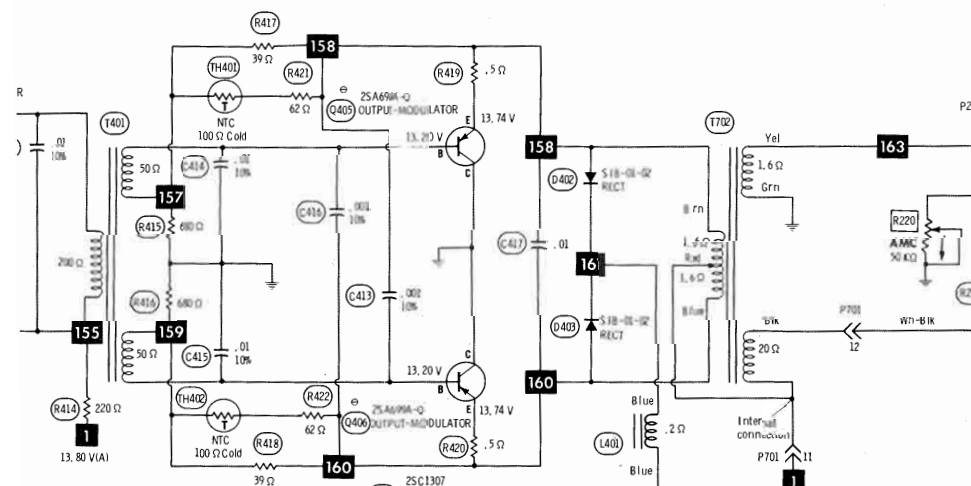
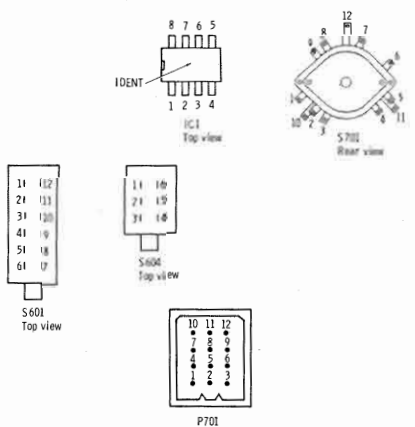
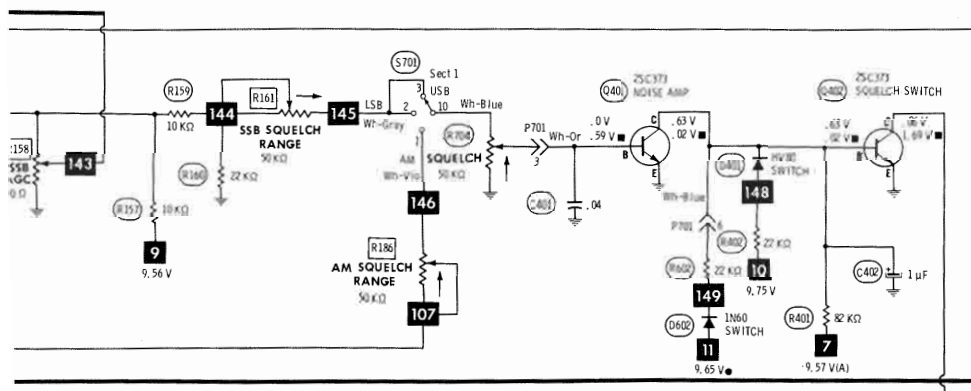
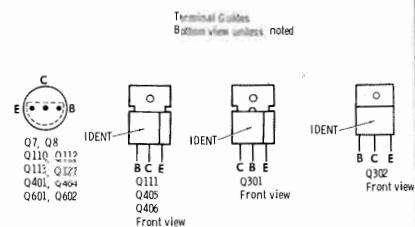
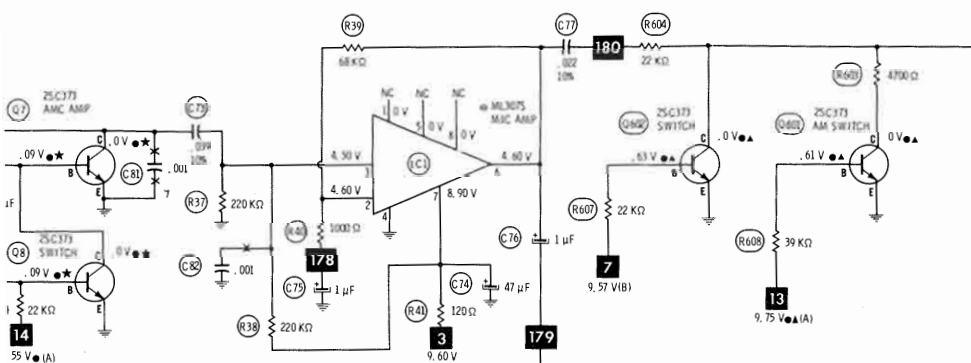
LSB

Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X11, X15	7	X2, X11, X15	13	X4, X11, X15	19	X5, X11, X15
2	X1, X12, X15	8	X2, X12, X15	14	X4, X12, X15	20	X5, X12, X15
3	X1, X13, X15	9	X3, X11, X15	15	X4, X13, X15	21	X6, X11, X15
4	X1, X14, X15	10	X3, X12, X15	16	X4, X14, X15	22	X6, X12, X15
5	X2, X11, X15	11	X3, X13, X15	17	X5, X11, X15		
6	X2, X12, X15	12	X3, X14, X15	18	X5, X12, X15	23	X6, X14, X15









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.
Q108	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q109	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q110	2SA495-0		GE-21	TR-30	PTC103	HEPS0013	RE 26	SK3114	RT-106	ECG159
Q111	2SC1226AQ		GE-28	TR-55	PTC110		RE 42	SK3054	RT-154	ECG186
Q112	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q113	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q114	2SC784-0		GE-61	TR-70	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG107
Q115	2SC784-0		GE-61	TR-70	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG107
Q116	2SC372-0		GE-20	TR-24	PTC139	HEPS0015	RE 13	SK3018	RT-105	ECG123A
Q117	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q118	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q119	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q120	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q121	2SC372-0		GE-20	TR-24	PTC139	HEPS0015	RE 13	SK3018	RT-105	ECG123A
Q122	2SC371-0		GE-20	TR-33	PTC121	HEPS0011	RE 13	SK3018	RT-102	ECG123A
Q123	2SC372-0		GE-20	TR-24	PTC139	HEPS0015	RE 13	SK3018	RT-105	ECG123A
Q124	2SC372-0		GE-20	TR-24	PTC139	HEPS0015	RE 13	SK3018	RT-105	ECG123A
Q125	2SA495-0,Y		GE-21	TR-30	PTC103	HEPS0013	RE 26	SK3114	RT-106	ECG159
Q126	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q127	2SC734Y		GE-212	TR-24	PTC123	HEPS0026	RE 17	SK3122	RT-114	ECG128
Q128	2SC789-0		GE-66	TR-76	PTC137		RE 21	SK3054	RT-197	ECG152
Q301	2SC1018	(2)					RE 80			ECG299
	2SC1017(1)	(2)					RE 80			ECG299
	2SC1307	(3)	GE-216		PTC186					ECG236
Q302	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q401	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q402	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q403	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q404	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q405	2SA699A-Q	(1)	GE-29	TR-56	PTC111		RE 43	SK3084	RT-155	ECG187
	2SA699-0		GE-29	TR-56	PTC111		RE 43	SK3084	RT-155	ECG187
Q406	2SA699A-Q	(1)	GE-29	TR-56	PTC111		RE 43	SK3084	RT-155	ECG187
	2SA699-0		GE-29	TR-56	PTC111		RE 43	SK3084	RT-155	ECG187
Q601	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q602	2SC373		GE-62	(IR)2SC373	PTC121	HEPS0015	RE 64	SK3122	RT-105	ECG199
Q701	2SC793Y		GE-14	TR-59	PTC118	HEPS7004	RE 19	SK3036	RT-131	ECG130

(1) Used in some versions.

(2) Rating 4.0 watts @ 1.0 amp.

(3) Rating 25 watts @ 8.0 amms

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.
C74	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C75	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C76	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C78	.82 50V						
C79	.47 35V						
C117	10 16V		RME-B-G-010	EP15-10	PC10-25	TDC474M050EL	SD50-R479
C120	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C123	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C125	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C144	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C145	33 16V		ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C148	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C149	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C150	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C151	100 10V		RME-E-E-100	EP15-100	PC100-16	VTT100F16	EV-1230
C152	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C153	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C154	4.7 16V		RME-A-J-005	EP30-5	PC5-50	VTT47A50	EV-1319
C155	4.7 16V		RME-A-J-005	EP30-5	PC5-50	VTT47A50	EV-1319
C156	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C159	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C175	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C176	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C203	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C204	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C205	1 50V		RME-A-J-005	EP30-5	PC5-50	VTT47A50	EV-1319
C206	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C209	3.3 50V		RME-B-J-003	EP50-5	PC5-50	VTT33A50	EV-1618
C210	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C211	33 16V		ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C212	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C214	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C215	4.7 16V		RME-A-J-005	EP30-5	PC5-50	VTT47A50	EV-1319
C216	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C218A	470 16V		CTM-2098		BB0045A	PPF200.65	TVA-1162

TRC-48

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.
B	470 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C219	47 16V		RME-A-J-001	EP50-1	PC1-50	MTV1C850	EV-1615
C309	1 50V		RME-B-J-005	EP50-5	PC5-50	VTT4R7A50	EV-1519
C319	4.7 35V		RME-B-J-003	EP50-5	PC5-50	VTT3R3A50	EV-1618
C320	3.3 50V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C321	10 16V		RME-A-J-001	EP50-1	PC1-50	MTV1C850	EV-1615
C402	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1C850	EV-1615
C403	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1C850	EV-1615
C404	33 16V		ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C407	33 16V		ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C408	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1C850	EV-1615
C410	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C412	220 16V		RME-J-E-250	EP15-250	PC250-25	VTT220G16	EV-1240
C418	470 35V		RME-D-H-500	EP50-500	WBR500-35	VTT470L35	EV-1450
C505	2200 35V		ME-J2000		WBR2000-50	TC50200A	TVA-1318.3

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		C-4294					
C2		C-4294					
C4		C-4294					
C5	50	C-0561					
C6	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C7	50	C-0561					
C8	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C9	50	C-0561					
C10	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C11	50	C-0561					
C12	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C13	50	C-0561					
C14	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C15	50	C-0561					
C16	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C17	20	C-0560					
C18	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C19	20	C-0560					
C20	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C21	20	C-0560					
C22	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C23	20	C-0560					
C24	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C25	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C26	20	C-0560					
C27	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C28	20	C-0560					
C29	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C30	20	C-0560					
C31	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C32	20	C-0560					
C33	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C34	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C35	100 10%		CCD-101	DD-101	NP010	GP310	10TCC-Q82
C36	27 10% NPO		CCD-103	DTZ-82	NP082	CN0482	10TCC-Q82
C37	.01		CCD-103				10TS-S10
C38	.01		CCD-103				10TS-S10
C39	150 10% NPO		CCTO-151	DTZ-150		CN0315	10TCC-T15
C40	180 10% NPO			DTZ-180			10TCC-T18
C41	.01		CCD-103				10TS-S10
C42	150 10% NPO		CCTO-151	DTZ-150		CN0315	10TCC-T15
C43	180 10% NPO			DTZ-180			10TCC-T18
C44	.01		CCD-103				10TS-S10
C45	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C46	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C47	.01		CCD-103				10TS-S10
C48	100 10% N220		*			*	10TCC-T10
C49	2 NPO		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C50	2 NPO		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C51	100 10% N220		*			*	10TCC-T10
C52	.01		CCD-103				10TS-S10
C53	.01		CCD-103				10TS-S10
C54	50	C-0561					
C55	100 10% NPO		CCD-101	DD-101	GP100	GP310	10TS-T10
C56	330 5%		DM15-331J	CPR-330J	CD15FD331J03	SX333	424ME3300J501
C57	47 5%		DM10-470J	CPR-47J	CD6ED470J03	SX447	424MC470J501
C58	50		CCD-101	DD-101	GP100	GP310	10TS-T10
C59	100 10% NPO		DM15-331J	CPR-330J	CD15FD331J03	SX333	424ME3300J501
C60	330 5%		DM10-470J	CPR-47J	CD6ED470J03	SX447	424MC470J501
C61	47 5%		CCD-103				10TS-S10
C62	.01		CCD-103				1PB-D10
C63	.001 10%		1MDF-1-102	CPJ-102	GPMS601	EWFA210	1PB-D10
C64	.001 10%		1MDF-1-102	CPJ-102	GPMS601	EWFA210	1PB-D10
C65	.001 10%		1MDF-1-102	CPJ-102	GPMS601	EWFA210	1PB-D10

REALISTIC MODEL TRC-48

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.
C66	.0047 10%	C-0560	CCD-472	DTZ-10	NP010	CN0410	10TS-047
C67	10 NPO		CCTO-100				10TCC-Q10
C68	20						
C69	20 NPO		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C70	.001 10%		1MDF-1-102	CPJ-102	DPMS601	EWFA1210	1PB-D10
C71	.01		CCD-103				10TS-S10
C72	.04		CCD-403			GP140	5GA-S40
C73	.039 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C77	.002 10%		6DP-1-202		DPMS602	PVC622	6PS-D20
C80	.039 10%		6DP-3-393	CPR-2000J	DPMS6S39	PVC6139	6PS-S39
C81	.001		CCD-102	DD-102		GP210	10TS-D10
C82	.001		CCD-102	DD-102		GP210	10TS-D10
C101	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C102	68 10% NPO		CCTO-680	DTZ-68	NP068	CN0468	10TCC-Q68
C103	100 10% NPO		CCD-101	DD-101	GP100	GP310	10TS-T10
C104	.01		CCD-103				10TS-S10
C105	150 10% N220		*			*	10TCR-T15
C106	6 NPO		*	DTZ-6R8	NP06P8	*	10TCC-V68
C107	150 10% N220						10TCR-T15
C108	5 NPO		CCTO-050			*	10TCC-V50
C109	150 10% N220		*				10TCR-T15
C110	8 NPO			DTZ-10	NP010	CN0410	10TCC-Q10
C111	130 5%		DM10-131J	CPR-130J	CD7FD131J03	SX313	424MC1300J501
C112	.01		CCD-103				10TS-S10
C113	.01		CCD-103				10TS-S10
C114	100 10% NPO		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C115	.01		CCD-103				10TS-S10
C116	.01		CCD-103				10TS-S10
C118	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C119	.01		CCD-502				10TS-D50
C121	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C122	.01		CCD-103				10TS-S10
C124	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C126	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C127	1					CN0510	10TCC-V10
C128	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C129	150 10% N220		*			*	10TCR-T15
C130	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C131	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C132	47 10% NPO		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C134	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C135	100 10% N220		*			*	10TCR-T10
C136	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C137	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C138	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C139	150 10% N220		*			*	10TCR-T15
C140	.01		CCD-502				10TS-D50
C141	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C142	.04		CCD-403			GP140	5GA-S40
C143	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C146	150 10% NPO		CCTO-151	DTZ-150	DPMS6S39	CN0315	10TCC-T15
C147	.039 10%		6DP-3-393			PVC6139	6PS-S39
C157	.01		CCD-103				10TS-S10
C158	.04		CCD-403			GP140	5GA-S40
C160	.01		CCD-103				10TS-S10
C161	.01		CCD-103				10TS-S10
C162	.01		CCD-103				10TS-S10
C163	.01		CCD-103				10TS-S10
C164	220 10% N220		*				10TCR-T22
C165	.01		CCD-103				10TS-S10
C166	.01		CCD-103				10TS-S10
C167	20 10% NPO		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C168	150 10% N220		*				10TCR-T15
C169	100 10% NPO		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C170	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C171	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C172	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C173	.01		CCD-103				10TS-S10
C174	100 10% NPO		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C177	.04		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C178	.01		CCD-103				10TS-S10
C179	100 10% NPO		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C180	150 10% N220		*				10TCR-T15
C181	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C182	470 5%		DM15-47 J	CPR-470J	CD15F471J03	SX347	424MC4700J501
C183	.01		CCD-103				10TS-S10
C184	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1110	1PB-S10
C185	220 10% N220		*				10TCR-T22
C186	.01		CCD-103				10TS-S10
C187	68 10% NPO		CCTO-680	DTZ-68	NP068	CN0468	10TCC-Q68
C188	.001 10%		1MDF-1-102	CPJ-102	DPMS601	EWFA1210	1PB-D10
C189	.001 10%		1MDF-1-102	CPJ-102	DPMS601	EWFA1210	1PB-D10
C190	.04 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C191	.04		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C192	1					CN0510	10TCC-V10
C193	.04 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C194	.01		CCD-103				10TS-S10
C195	.04		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C196	.04 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C197	.04 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C198	.04		CCD-403			GP140	5GA-S40
C199	.04 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C200	100 10% NPO		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10

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.
C201	.04 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C202	.01		CCD-103				10TS-S10
C207	.01		CCD-103				10TS-S10
C208	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C213	.001 10%		1MDF-1-102	CPJ-102	DPMS6D1	EWFA1A210	1PB-D10
C217	.04		CCD-403			GP140	5GA-S40
C220	.04		CCD-403			GP140	5GA-S40
C222	.04		CCD-403			GP140	5GA-S40
C301	350		CCD-391	DD-391	GP390	GP339	10TS-T39
C302	.01		CCD-103				10TS-S10
C303	.01		CCD-103				10TS-S10
C304	.04		CCD-403			GP140	5GA-S40
C305	.01		CCD-103				10TS-S10
C306	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C307	10 NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C308	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C310	.039 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C311	.039 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C312	100 10% NPO		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C313	.001		CCD-102	DD-102		GP210	10TS-D10
C314	330 5%		DM15-331J	CPR-330J	CD15FD331J03	SX333	424ME3300J501
C315	220 5%		DM10-221J	CPR-220J	CD10FD221J03	SX322	424ME2200J501
C316	5		CCTO-050				10TCC-V50
C317	.04		CCD-403			GP140	5GA-S40
C318	.01		CCD-103				10TS-S10
C322	.01		CCD-103				10TS-S10
C323	.01		CCD-103				10TS-S10
C324	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C325	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C401	.04		CCD-403			GP140	5GA-S40
C405	560 10%		CCD-561	DD-561	GP356	GP356	10TS-T56
C406	.001 10%		1MDF-1-102	CPJ-102	DPMS6D1	EWFA1A210	1PB-D10
C409	56 10% NPO		CCTO-560			CN0456	10TCC-Q56
C411	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C413	.001 10%		1MDF-1-102	CPJ-102	DPMS6D1	EWFA1A210	1PB-D10
C414	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C415	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C416	.001 10%		1MDF-1-102	CPJ-102	DPMS6D1	EWFA1A210	1PB-D10
C417	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C419	.022 10%		1MDF-1-223	CPJ-223	DPMS2S22	EWFA1A122	1PB-S22
C420	.022 10%		1MDF-1-223	CPJ-223	DPMS2S22	EWFA1A122	1PB-S22
C501	.01		CCD-103				10TS-S10
C502	.01		CCD-103				10TS-S10
C503	.01		CCD-103				10TS-S10
C504	.01		CCD-103				10TS-S10
C506	.01		CCD-103				10TS-S10
C701	.001		CCD-102	DD-102		GP210	10TS-D10
C702	.039		6DP-3-393		DPMS6S39	PVC6139	6PS-S39

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

REALISTIC MODEL TRC-48

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.
R28	Carrier Balance	100					
R145	SSB "S" Meter	4700	P-6227				
R158	SSB AGC	4700	P-6227				
R161	SSB Squelch Range	47K	P-6230				
R186	AM Squelch Range	47K	P-6230				
R209	AM "S" Meter	4700	P-6227				
R220	AMC	47K	P-6230				
R224	Bias	1000	P-6228				
R302	Bias	1000					
R309	Bias	470	P-6229				
R316	ALC	4700	P-6227				
R318	RF Meter	4700	P-6227				
R504	Voltage	5000		TSV-5K or T-5000	C-502	MTC53L1	X201R502B
R701	Remote Volume	10K	P-1455				
R702	RF Gain	50K	P-1409				
R703	Volume	10K	C-4294	F2-10K (1), SRS012	A47-10K-Z (1), RS-2 or [NP-10K-Z (1), UP-A-400]	RU14A (1), SL38, SK1000 or [UA14A (1), SK1000]	BU1 (1), CF61, SS5, DC1
R704	Squelch	50K	P-1010				

(1) Enlarge mounting hole.

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.
R502	.15 5W MW			TH401	100 Cold NTC		T-1155
TH101	10K Cold NTC		T-1012	TH402	100 Cold NTC		T-1155
TH301	35 Cold NTC		T-1139				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Synth Mixer (38MHz)	CA-3126			
L2	Harmonic Sup (38MHz)	CA-3127			
L3	Synth Output (38MHz)	CA-3126			
L101	Xmit Mixer Output (27MHz)	CA-3141			
L102	Harmonic Sup (27MHz)	CA-3141			
L103	Harmonic Sup (27MHz)	CA-3141			
L104	Buffer Input (27MHz)	CA-3140			
L105	RF Choke (10uH)	CB-2196		72F105AP	
L106	RF Choke (47uH)	CB-2194		70F475AI	
L107	RF Choke (10uH)	CB-2196		72F105AP	
L108	RF Choke (470uH)			72F474AP	
L301	RF Choke (10uH)	CB-0563		72F105AP	
L302	RF Choke (2uH)	CB-2213			
L303	RF Choke (10uH)	C-0563			
L304	Final (2uH)	CB-2213		72F105AP	
L305	Antenna	CA-3014			
L306	Pi Filter (27MHz)	CB-2195			
L307	RF Choke (.82uH)	CA-3143			
L402	RF Choke				
T1	11MHz IF	CA-3128			
T101	Xmit Buffer (27MHz)	CA-3142			
T102	SSB IF (11MHz)	CA-3133			
T103	11MHz IF	CA-3134			
T104	11MHz IF Output	CA-3142			
T105	Rec RF Amp (27MHz)	CA-3139			
T106	Rec RF Amp (27MHz)	CA-3138			
T107	Mixer IF (11MHz)	CA-3135			
T108	Noise Amp	CA-3136			
T109	Rec Mixer (11MHz)	CA-3136			
T110	AM Rec Osc (11MHz)	CA-3137			
T111	Input IF (455kHz)	CA-3130			
T112	Interstage IF (455kHz)	CA-3131			
T113	Output IF (455kHz)	CA-1332			
T301	Xmit Driver (27MHz)	CA-3064			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T401	2	1		TN-0055 E-6169A (1)			(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	120V AC @ 540mA AC	19.5V AC @ 3600mA AC	TA-0445 K-3360 (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.	
T702	32	8	TA-0446 E-3757 (1)			(1) Number on unit.

CHOKE (Audio)

ITEM No.	INDUCTANCE	REPLACEMENT DATA			NOTES
		MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L401	2.8mH	CB-2197 E-6191 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP 1	4" PM, 8 Ohms	S-4514	4A128	

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	1 A Fast Acting			GJV1		318001		
F2	5 A Fast Acting	HF-1079	F-1099	AGG5	HDJ	312005	150145	FG5-2

REALISTIC MODEL TRC-48

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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	23.330		ATA25W23.330	1,2,3,4	X10	14.950		ATB32W14.950	4,8,12,16,20,22
X2	23.380		ATA25W23.380	5,6,7,8	X11	14.907		ATB32W14.907	1,5,9,13,17,23
X3	23.430		ATA25W23.430	9,10,11,12	X12	14.917		ATB32W14.917	2,6,10,14,18,21
X4	23.480		ATA25W23.480	13,14,15,16	X13	14.927		ATB32W14.927	3,7,11,15,19
X5	23.530		ATA25W23.530	17,18,19,20	X14	14.947		ATB32W14.947	4,8,12,16,20,22
X6	23.580		ATA25W23.580	21,22,23	X15	11.272		ATD85W11.272	AM/USB
X7	14.910		ATB32W14.910	1,5,9,13,17,21	X16	11.275		ATD85W11.275	LSR
X8	14.920		ATB32W14.920	2,6,10,14,18,21	X101	11.730		ATD20W11.730	AM Receive
X9	14.930		ATB32W14.930	3,7,11,15,19					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
XF101	Ceramic Filter	C-0562	(11.2735MHz)
M1	Meter	M-0249	S/RF
S301	Relay	R-8060	Xmit/Rec
S1	Switch	S-1116	Channel Selector
S501	Switch		PA-CB
S604	Switch		Remote
S606	Switch		Silencer
S608	Switch		Power (On-Off)
S701	Switch	S-1145	AM-LSB-USB
	Printed Circuit Board	Y-4782	Generator
	Printed Circuit Board	X-4783	IF
	Printed Circuit Board	X-4785	RF
	Printed Circuit Board	X-4784	Audio
	Printed Circuit Board	X-4786	Voltage Reg

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Top (A)	Z-2038	Mobile Mounting Bracket	H-6150
(B)	Z-2039	Escutcheon	Z-2008
Panel (A)	Z-2036		
(B)	Z-2037		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Cord, AC Power	W-1735	
Cable, DC Power	W-1740	
Microphone	M-2240	