

PHOTOFACT® with

CIRCUITRACE®

For Supplier Address See PHOTOFACT Index

NOTE

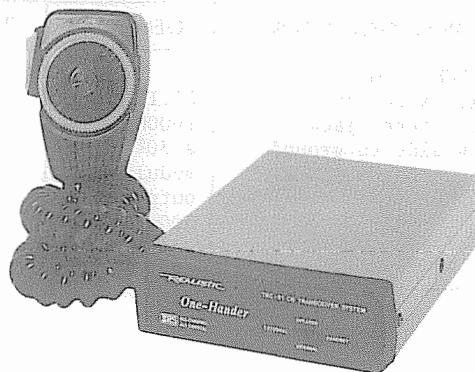
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(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-61 (21-161)

ALIGNMENT INSTRUCTIONS

Alignment Tools:

L5, L6, T4, T5, T6, T13.....5000, 8290
T1, T2, T3, T9, T10, T11, T12.....9440

GC Electronics:

5000, 8290
9440

REALISTIC MODEL TRC-61

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
MASTER OSC Frequency Counter to TP5, low side to ground.		Any	T6	Adjust till oscillators stop. Back up 1 full turn.
High side thru .01uF to TP1, low side to ground.	455kHz, 1000Hz @ 30% modulation.	Any	T4, T5	Set generator output low enough to prevent AGC limiting. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation.	13	T1, T2, T3	Set generator output low enough to prevent AGC limiting. Adjust for maximum.

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

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6CY361

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
SQUELCH RANGE High side thru .01uF to antenna jack low side to ground.	27.115MHz 1000Hz @ 30% modulation, output 500uV.	13	R66	Set squelch control fully clockwise. Adjust so that squelch just breaks.

TRANSMITTER

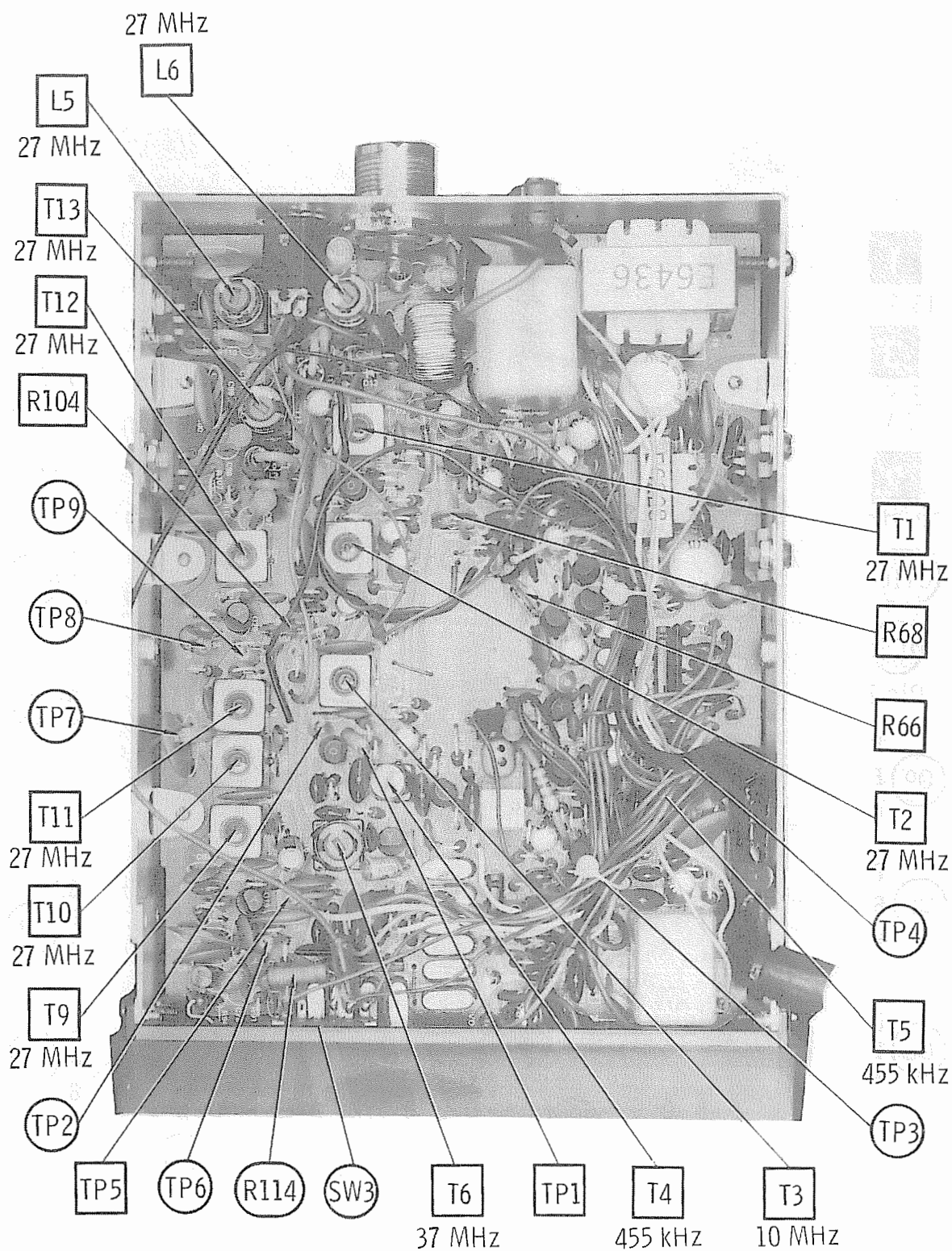
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	T9,T10,T11, T12,T13,L5, L6	Channel selector to Ch 13. Key transmitter. Adjust for maximum.
OUTPUT POWER RF Wattmeter	R104	Key transmitter. Adjust for 3.5 $\pm$.3 watts output.

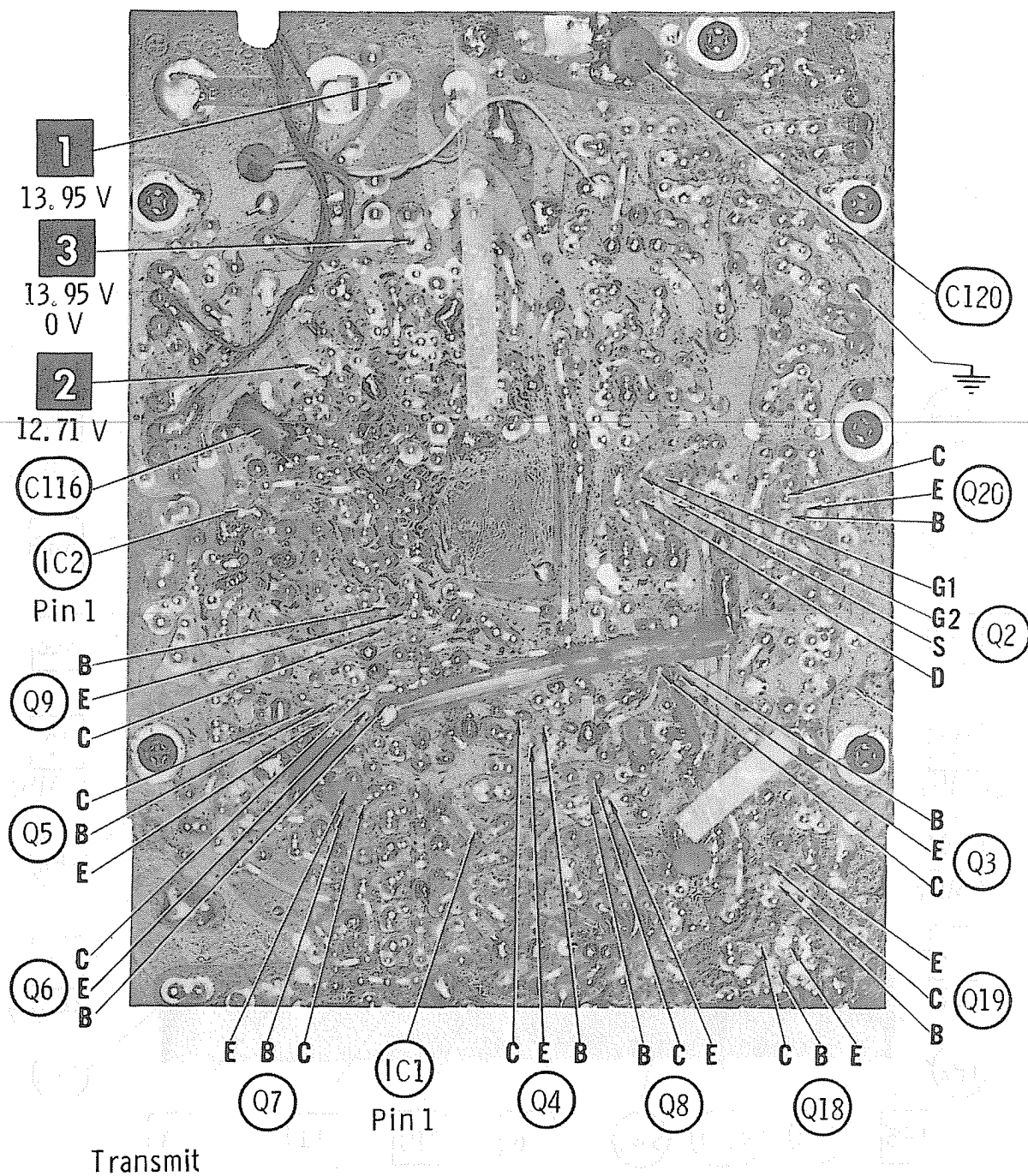
TRANSMITTER ADJUSTMENTS

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

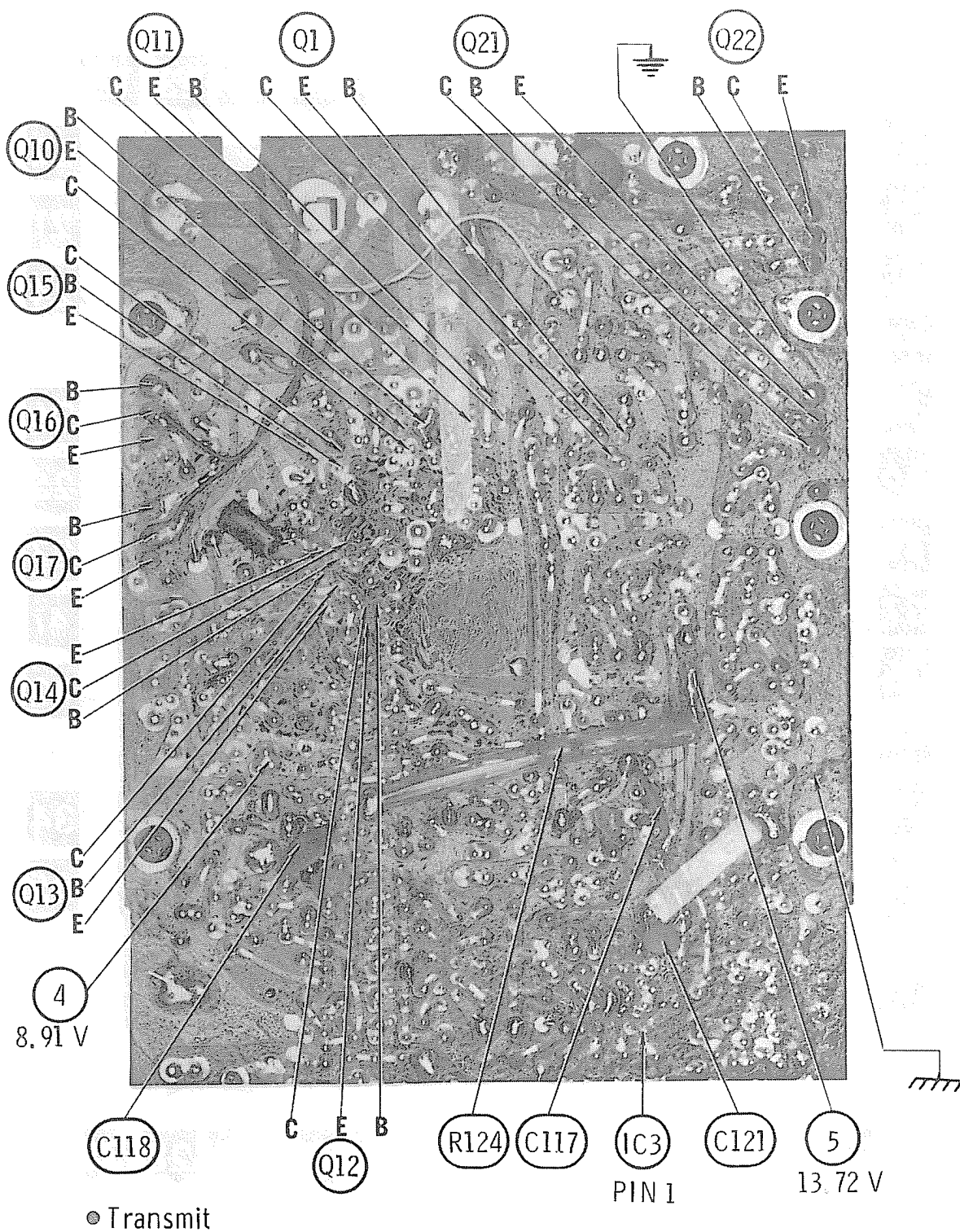
INDICATOR	ADJUST	REMARKS
AMC Modulation Meter connected to antenna jack.	R68	Set mode switch to AM. Inject a 2500Hz signal at mic input. Key transmitter. Adjust for 50% modulation. Increase audio signal 30db. Adjust for 100% modulation maximum.



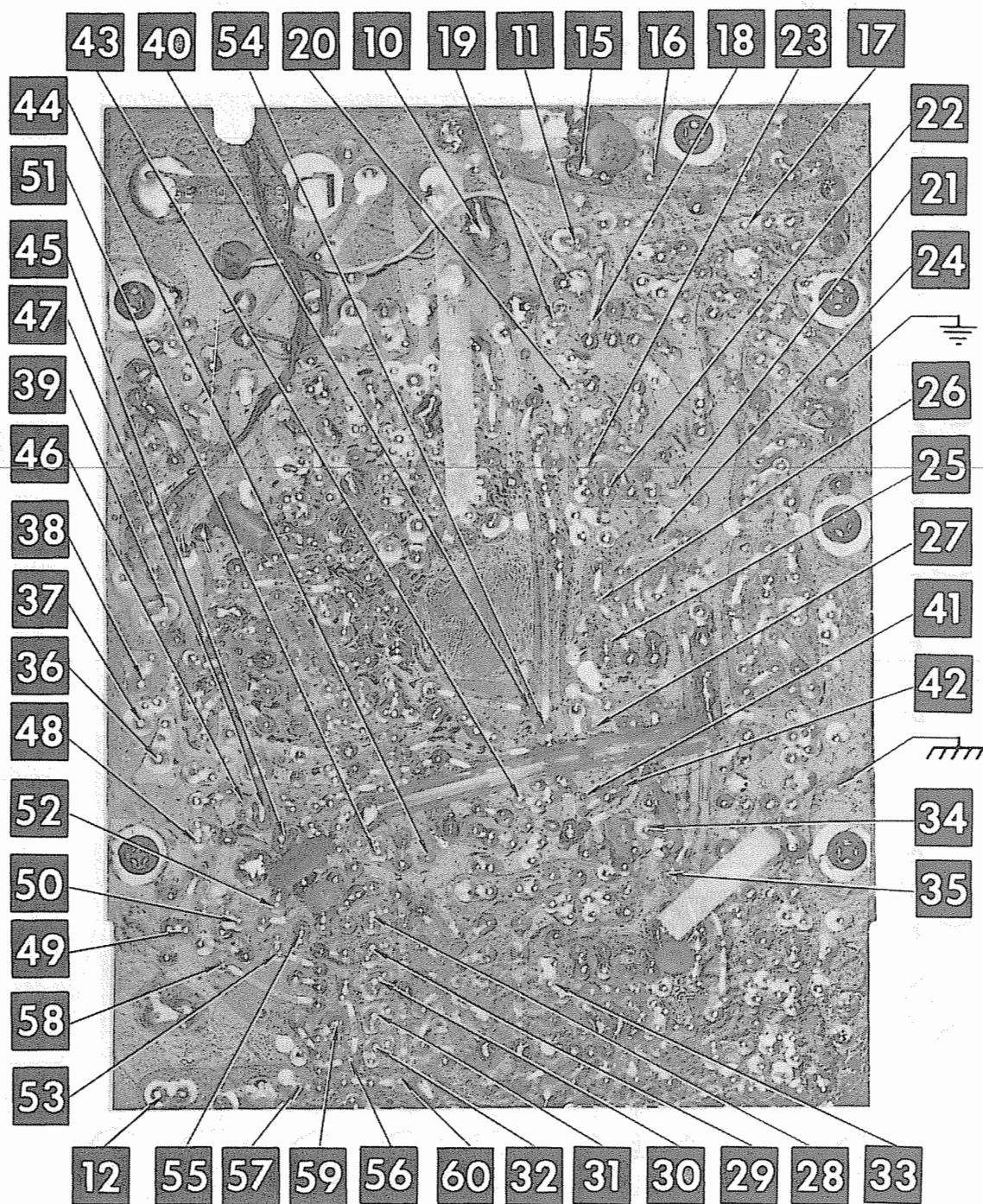
CHASSIS - BOTTOM



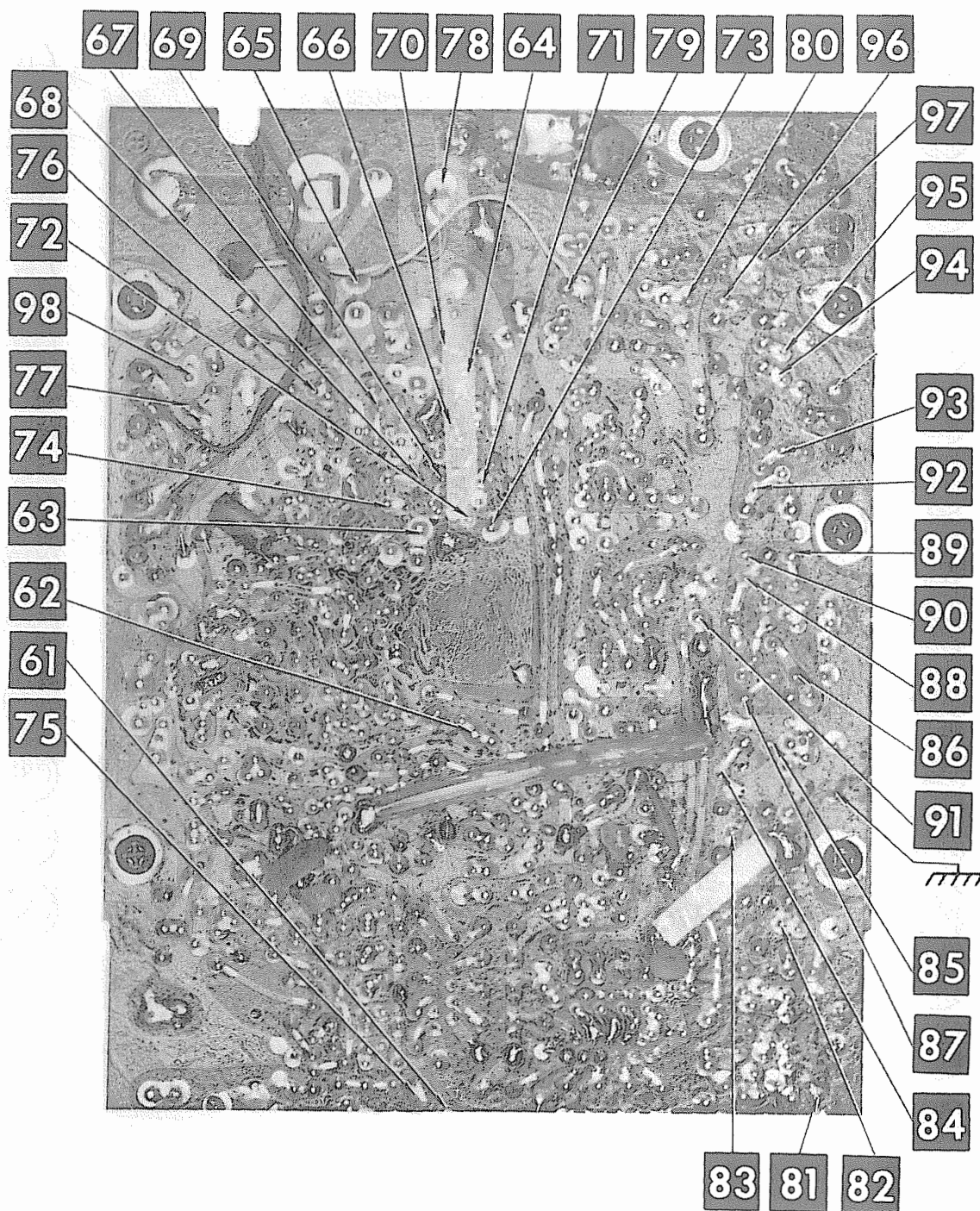
MAIN BOARD



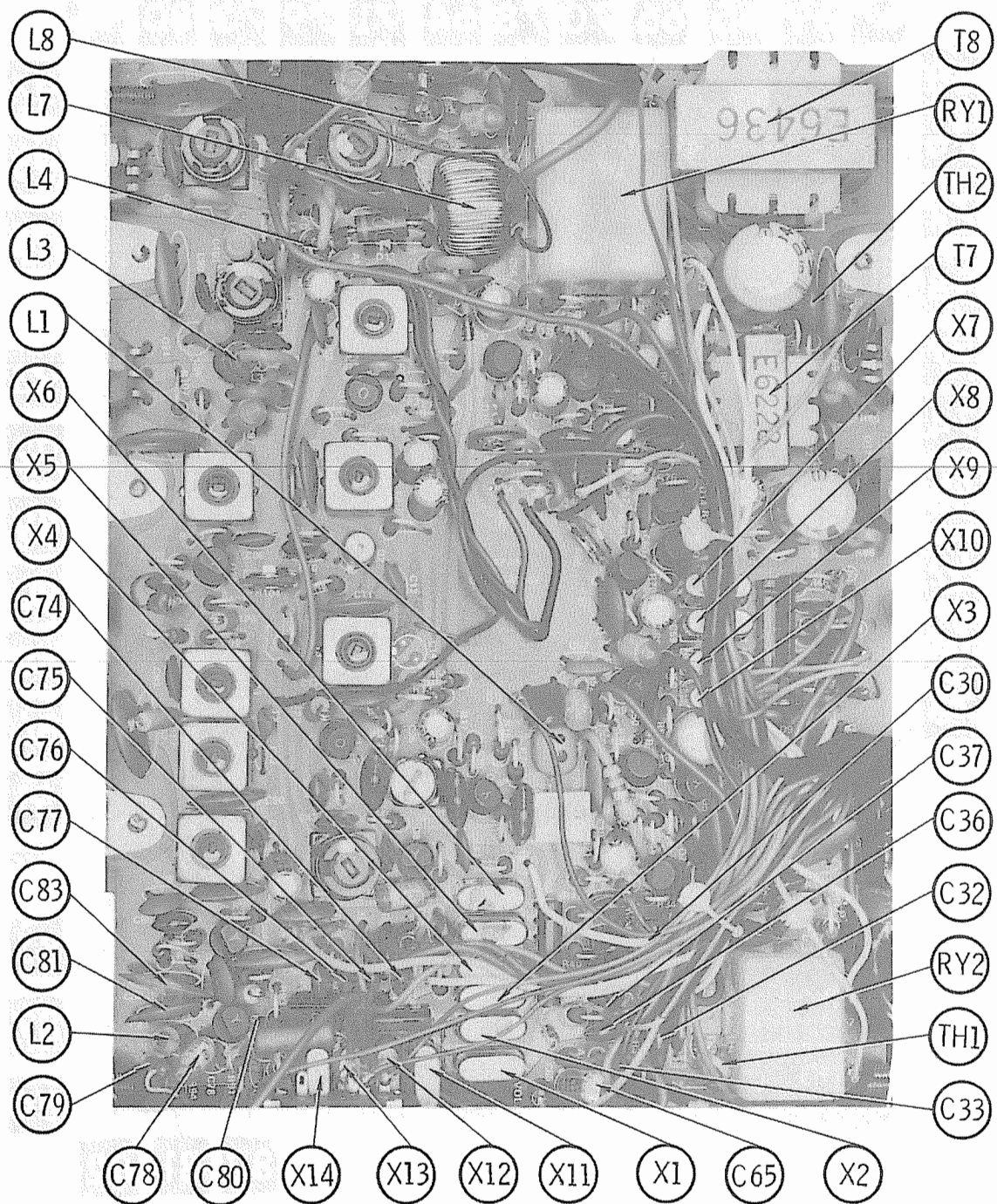
MAIN BOARD



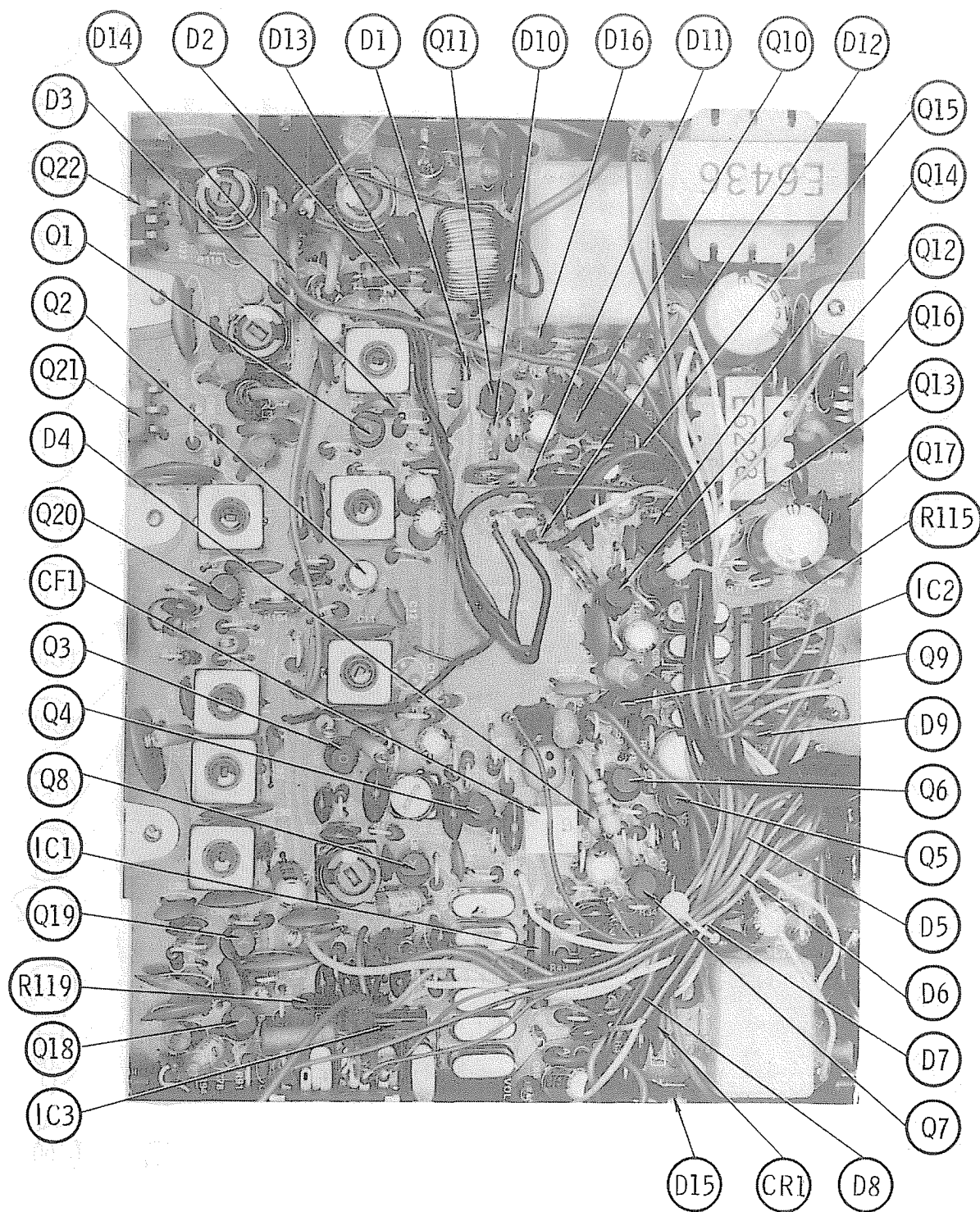
MAIN BOARD



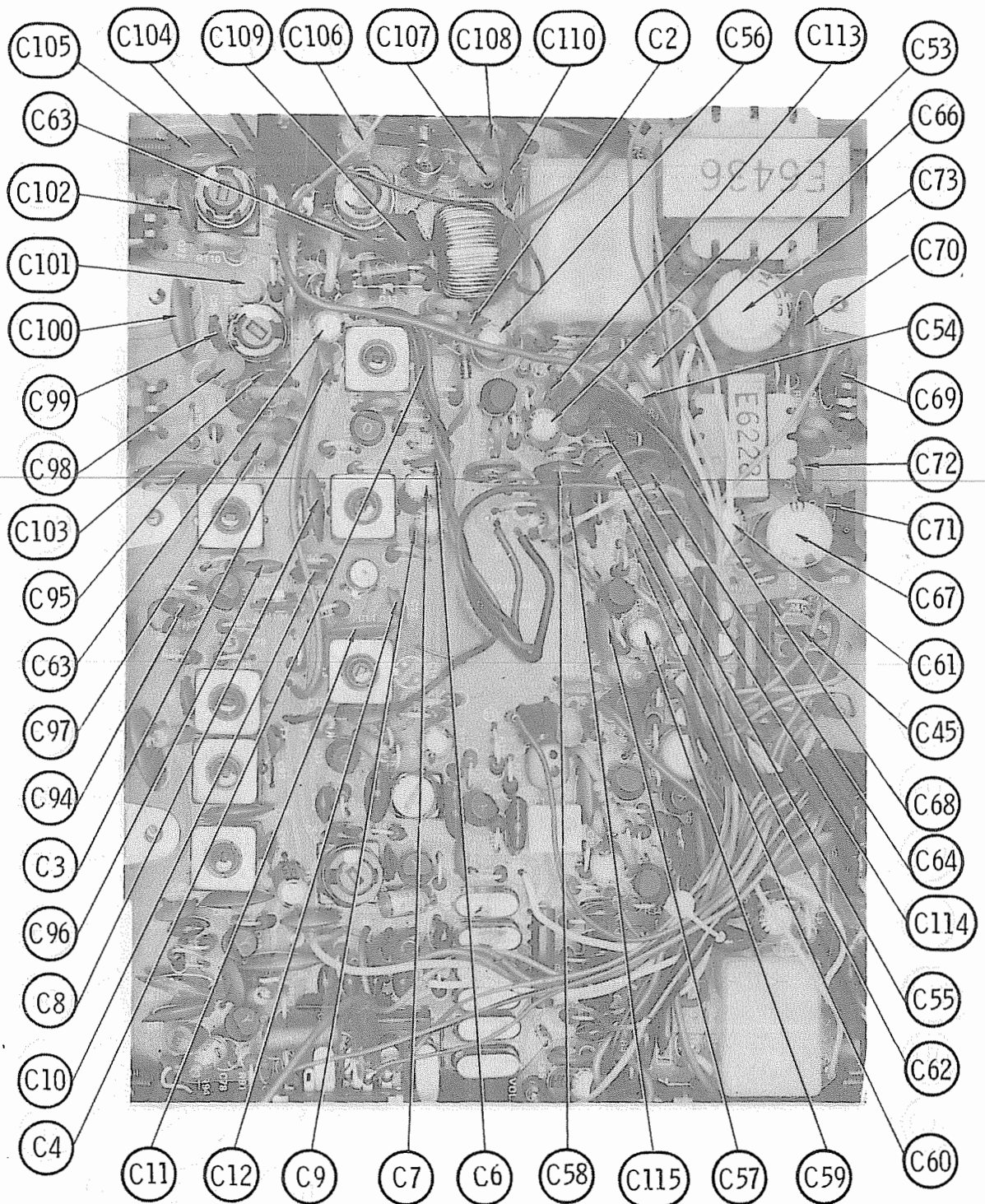
MAIN BOARD



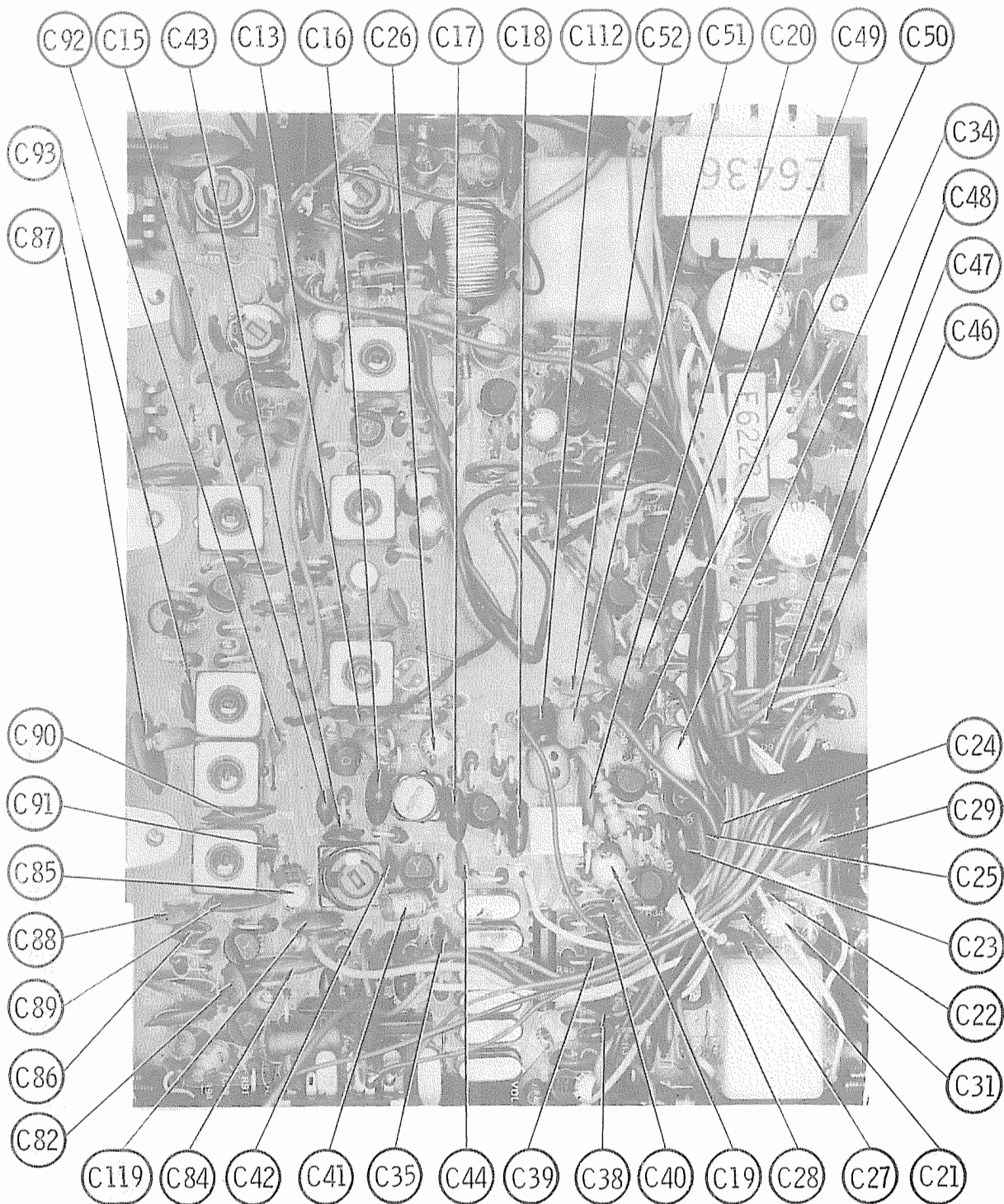
MAIN BOARD



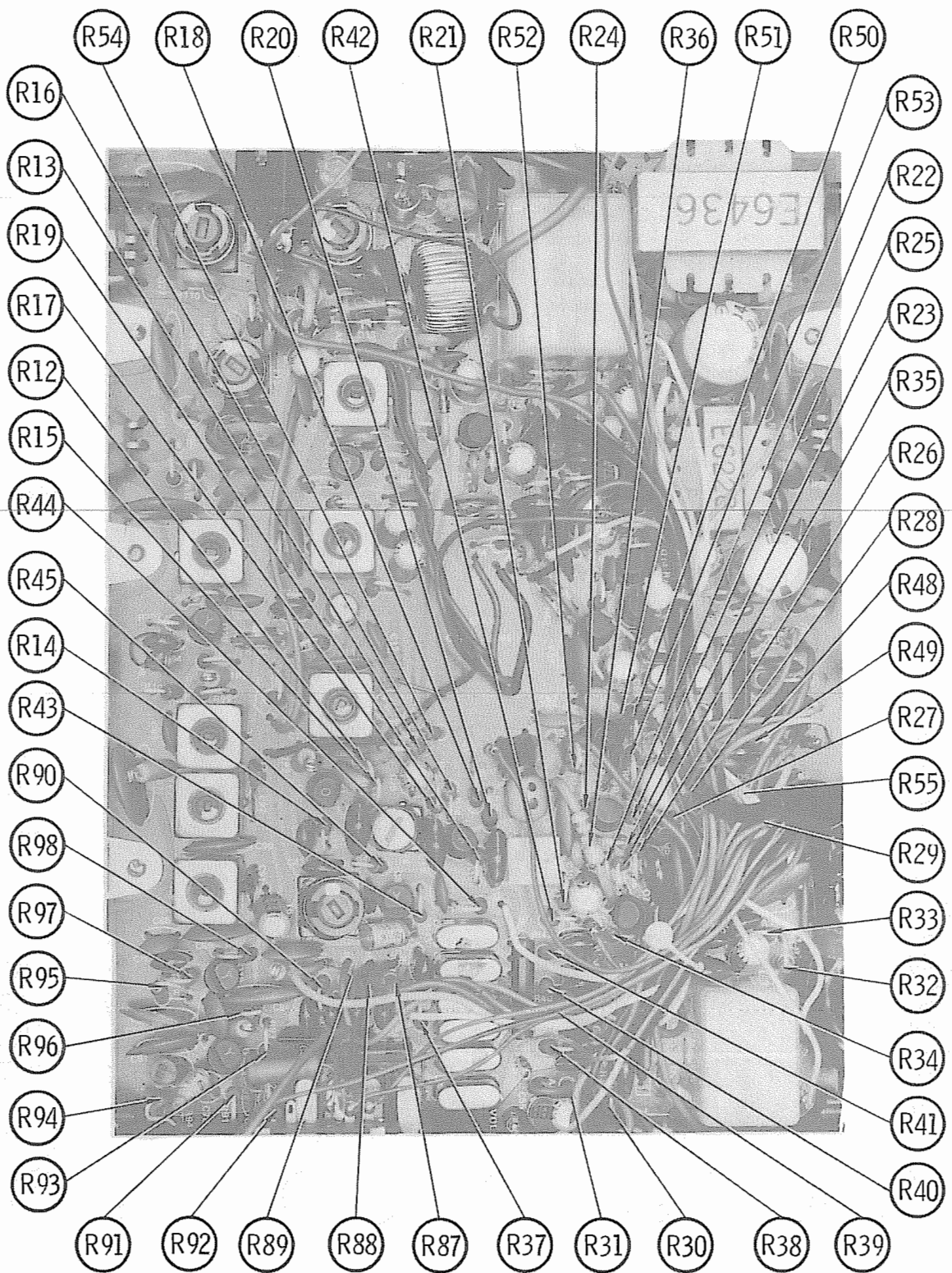
MAIN BOARD



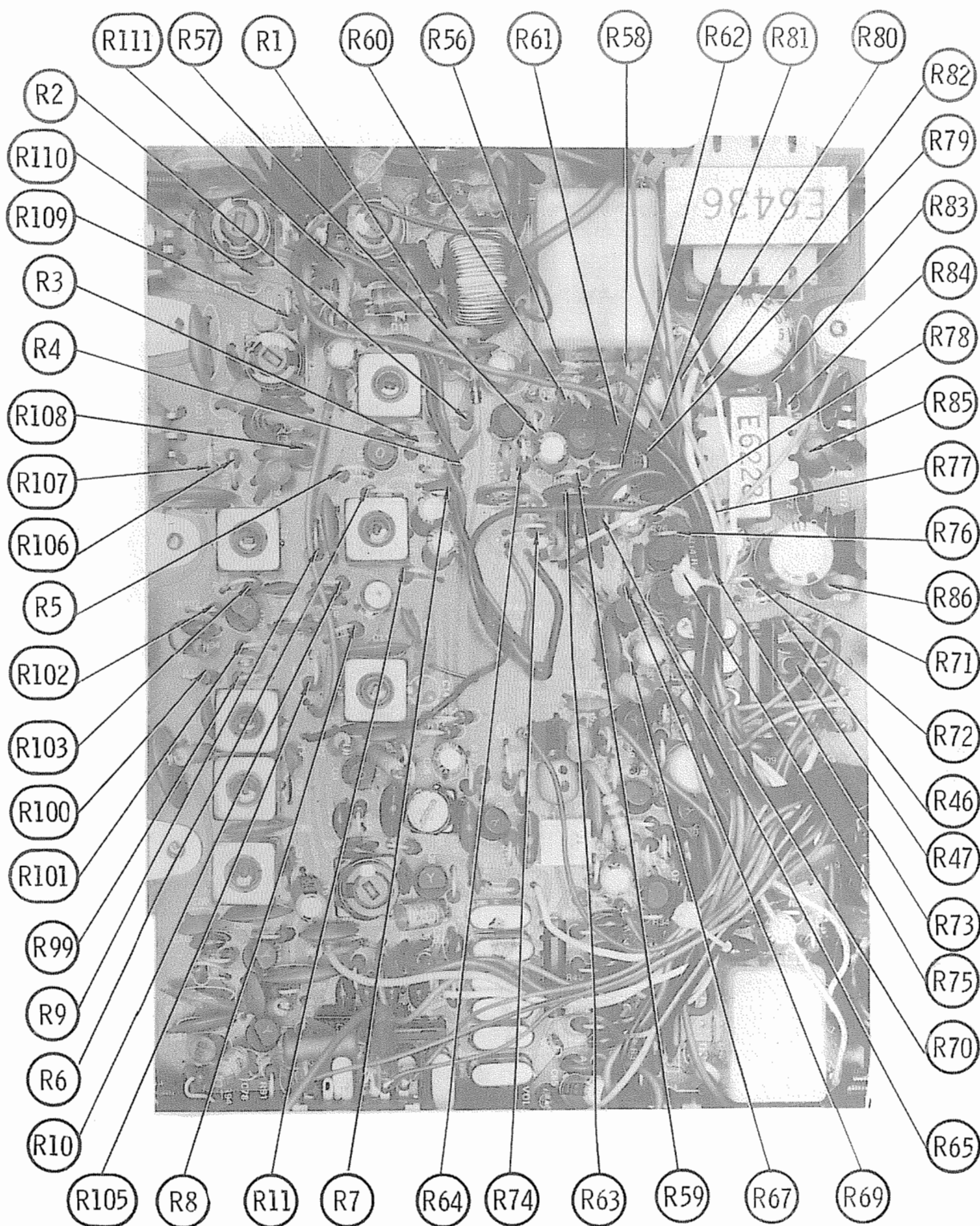
MAIN BOARD



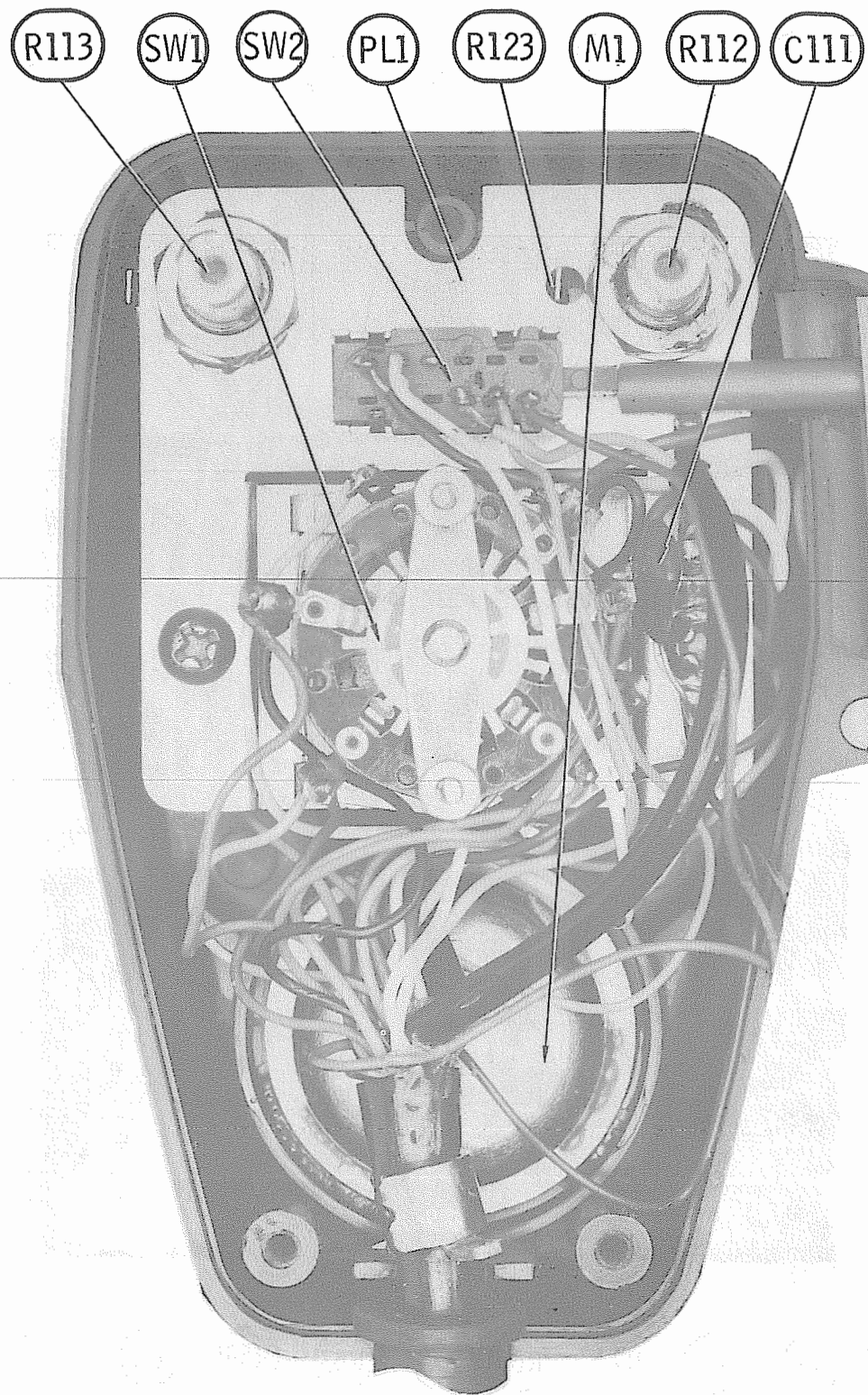
MAIN BOARD



MAIN BOARD



MAIN BOARD



MIC ASSEMBLY – REAR

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 BELOEN 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 BELOEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	WORKMAN PART No.
01	1S1588		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177	0200
02	1S1588		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177	0200
03	HV-80		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177	0200
04	1S1588		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177	0200
05	1S1588		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177	0200
06	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
07	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
08	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
09	MZ209		GEZO-9.1	Z89.1B				RT-240	ECG139	
	(9.0 Volt 5% Zener)									
010	MZ206								ECG5070	
	(6.0 Volt 5% Zener)									
011	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
012	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
013	SI801-02		GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	5A40
014	AW01-33		GEZO-33	ZB33A	HEPZ0426	RE 130	SK3095	RT-250	ECG147	Z1222
	(33 Volt Zener)									
015	SI801-02		GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	5A40
016	1S1588		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177	0200
IC1	TA-58	TX-0018								
IC2	TA-58	TX-0018								
IC3	TA-58	TX-0018								
Q1	2SC784-0		GE-60	PTC132	HEPS0008	RE 28	SK3018	RT-108A	ECG229	TR-70
Q2	3K35		GE-FET-4	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222	
Q3	2SC372-0		GE-210	PTC121	HEPS0015	RE 13	SK3122	RT-105	ECG123A	(1R)2SC372
Q4	2SC372Y		GE-210	PTC121	HEPS0015	RE 13	SK3122	RT-105	ECG123A	(1R)2SC458B
Q5	2SC372Y		GE-210	PTC121	HEPS0015	RE 13	SK3122	RT-105	ECG123A	(1R)2SC458B
Q6	2SC373		GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199	(1R)2SC373
Q7	2SC373		GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199	(1R)2SC373
Q8	2SC394Y		GE-60	PTC121	HEPS0014	RE 9	SK3038	RT-107A	ECG229	(1R)2SC460B
	2SC380Y	(1)	GE-20	PTC136	HEPS0016	RE 9	SK3018	RT-109	ECG229	(1R)2SC372
Q9	2SC394Y		GE-60	PTC121	HEPS0014	RE 9	SK3038	RT-107A	ECG229	(1R)2SC372
	2SC380Y	(1)	GE-20	PTC136	HEPS0016	RE 9	SK3018	RT-109	ECG229	(1R)2SC372
Q10	2SC373		GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199	(1R)2SC373
Q11	2SC373		GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199	(1R)2SC373
Q12	2SC373		GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199	(1R)2SC373
Q13	2SC373		GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199	(1R)2SC373
Q14	2SC373		GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199	(1R)2SC373
Q15	2SC373		GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199	(1R)2SC373
Q16	2SC1226AQ	(10)	GE-28	PTC110	HEPS5027	RE 42	SK3054	RT-197	ECG186A	TR-55
Q17	2SC1226AQ	(10)	GE-28	PTC110	HEPS5027	RE 42	SK3054	RT-197	ECG186A	TR-55
Q18	2SC394Y		GE-60	PTC121	HEPS0014	RE 9	SK3038	RT-107A	ECG229	(1R)2SC460B
	2SC380Y	(1)	GE-20	PTC136	HEPS0016	RE 9	SK3018	RT-109	ECG229	(1R)2SC372
Q19	2SC735Y		GE-210	PTC123	HEPS0015	RE 13	SK3122	RT-107A	ECG289	TR-21
	2SC734Y	(1)	GE-212	PTC123	HEPS5026	RE 17	SK3122	RT-114	ECG128	TR-87
Q20	2SC735Y		GE-210	PTC123	HEPS0015	RE 13	SK3122	RT-107A	ECG289	TR-21
	2SC734Y	(1)	GE-212	PTC123	HEPS5026	RE 17	SK3122	RT-114	ECG128	TR-87
Q21	2SC1017	(1)							ECG299	
	2SC1018	(1)(11)							ECG299	
Q22	2SC1678	(10)	GE-215	PTC186		RE 203	SK3197		ECG235	
	2SC1964	(1)(12)	GE-215	PTC186		RE 203	SK3197		ECG235	
PL1	TLR-105									
	TLR-107	(1)								

(1) Used in some versions.

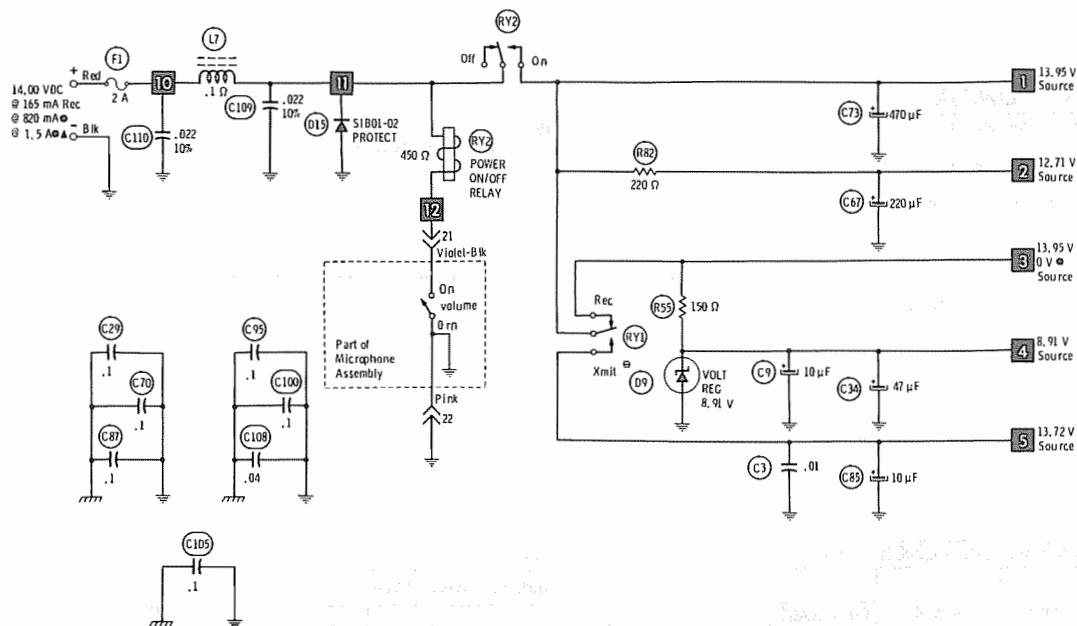
(10) Rating, 10 watt @ 3.0 amp.

(11) Rating, 4.0 watt @ 1.0 amp.

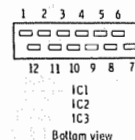
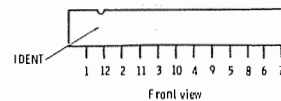
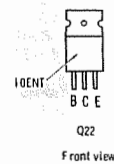
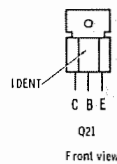
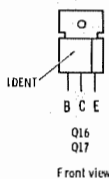
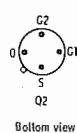
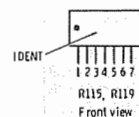
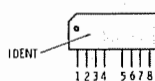
(12) Rating, 12 watt @ 3.5 amp.

(CONTINUED ON PAGE 88)

REALISTIC MODEL TRC-61



Terminal Guides



✖ 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

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.

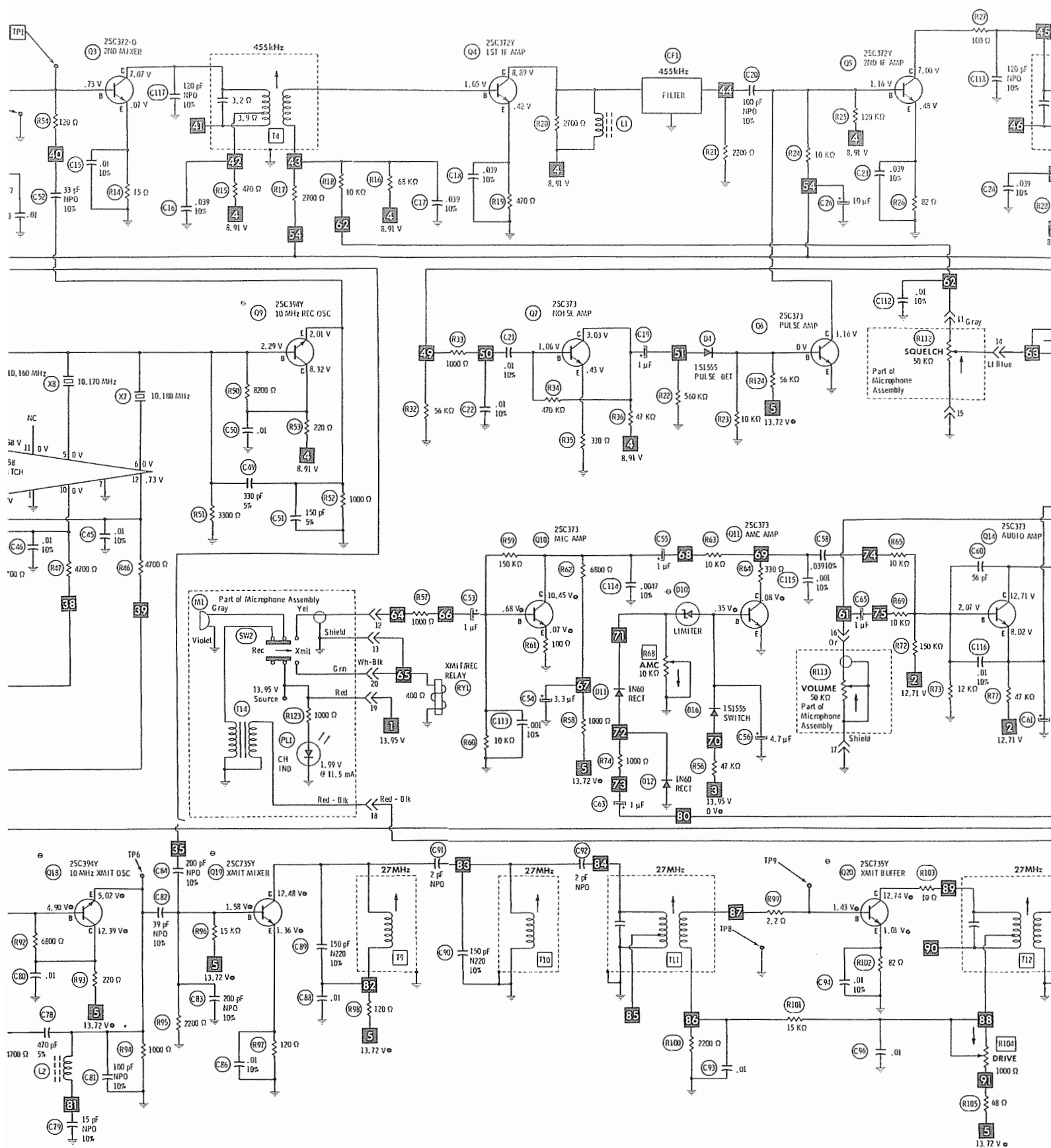
Resistors are 1/2W or less, 5% unless noted.

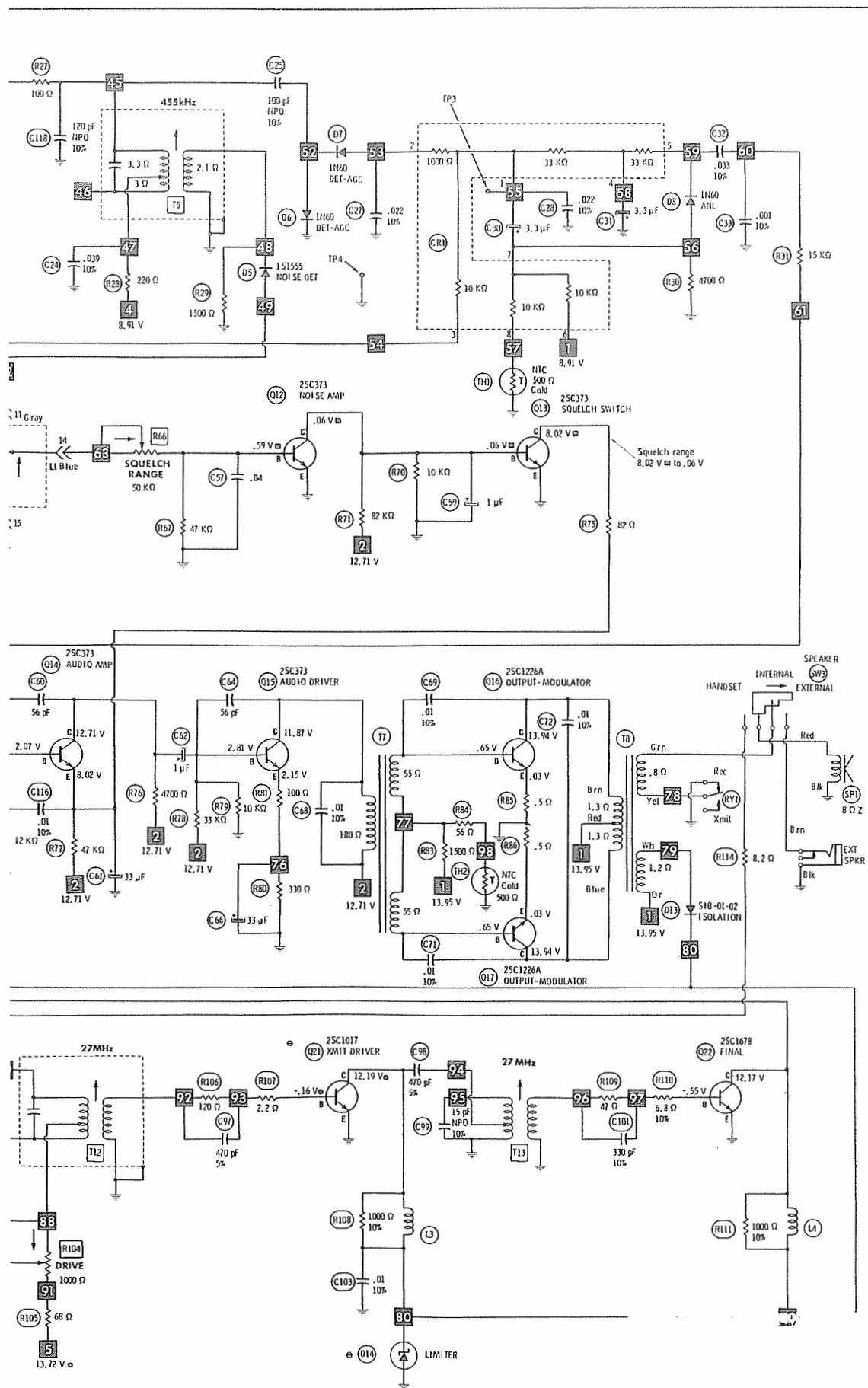
Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITAGE

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REALISTIC MODEL TRC-61

PARTS LIST AND DESCRIPTION (CONTINUED)

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

PARTS LIST

(When ordering

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C7	10 16V	CE04W1C100F	PC10-25	VTT10A25	EV-1222
C9	10 16V	CE04W1C100F	PC10-25	VTT10A25	EV-1222
C19	1 50V	CE04W1H010	PC1-50	MTV1C850	EV-1615
C26	10 16V	CE04W1C100F	PC10-25	VTT10A25	EV-1222
C30	3.3 25V		PC5-50	VTT3R3A50	EV-1618
C31	3.3 25V		PC5-50	VTT3R3A50	EV-1618
C34	47 16V	CE04W1C470B	PC50-16	VTT47D16	EV-1226
C53	1 50V	CE04W1H010	PC1-50	MTV1C850	EV-1615
C54	3.3 25V		PC5-50	VTT3R3A50	EV-1618
C55	1 50V	CE04W1H010	PC1-50	MTV1C850	EV-1615
C56	4.7 16V		PC5-50	VTT47A50	EV-1319
C59	1 50V	CE04W1H010	PC1-50	MTV1C850	EV-1615
C61	33 16V	CE04W1C330C	PC30-25	VTT33025	EV-1325
C62	1 50V	CE04W1H010	PC1-50	MTV1C850	EV-1615
C63	1 50V	CE04W1H010	PC1-50	MTV1C850	EV-1615
C65	1 50V	CE04W1H010	PC1-50	MTV1C850	EV-1615
C66	33 16V	CE04W1C330C	PC30-25	VTT33025	EV-1325
C67	220 16V	CE04W1C221E	PC250-25	VTT220G16	EV-1240
C73	470 16V	CE04W1C471B	PC500-16	VTT470J16	EV-1250
C85	10 16V	CE04W1C100F	PC10-25	VTT10A25	EV-1222

CAPACITORS

ITEM No.	
C46	.01
C47	.01
C48	.01
C49	.330
C50	.01
C51	.150
C52	.33
C57	.04
C58	.03
C60	.56
C64	.56
C68	.01
C69	.01
C70	.1
C71	.01
C72	.01
C74	.01
C75	.01
C76	.01
C77	.01
C78	.470
C79	.15
C80	.01
C81	.100
C82	.39
C83	.200
C84	.200
C86	.01
C87	.1
C88	.01
C89	.150
C90	.150
C91	2
C92	2
C93	.01
C94	.01
C95	.1
C96	.01
C97	.47C
C98	.47C
C99	.15
C100	.1
C101	.33C
C102	.47
C103	.01
C104	.10
C105	.1
C106	.36C
C107	.15C
C108	.04
C109	.02
C110	.02
C111	.02
C112	.02
C113	.01
C114	.01
C115	.01
C116	.01
C117	.12
C118	.12
C119	.56
C120	.27
C121	.20

*Not normally

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	10 NPO 10%		DTZ-10	NP010	CN0410	10TCC-Q10
C2	.01		OC-103	GP10000	MAG5011	2SS-S10
C3	.01		OC-103	GP10000	MAG5011	2SS-S10
C4	.01		DC-103	GP10000	MAG5011	2SS-S10
C6	.01		OC-103	GP10000	MAG5011	2SS-S10
C8	100 NPO 5%		DTZ-100	NP0100	CN0310	10TCC-T10
C10	.01			DPMS4S1	EWFA1110	1PB-S10
C11	150 N220 10%				*	10TCR-T15
C12	.01		DC-103	GP10000	MAG5011	2SS-S10
C13	.01					10TS-S10
C15	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C16	.039 10%			DPMS6S39	PVC6139	6PS-S39
C17	.039 10%			DPMS6S39	PVC6139	6PS-S39
C18	.039 10%			DPMS6S39	PVC6139	6PS-S39
C20	100 NPO 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C21	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C22	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C23	.039 10%			DPMS6S39	PVC6139	6PS-S39
C24	.029 10%			DPMS6S39	PVC6139	6PS-S39
C25	100 NPO 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C27	.022 10%			DPMS2S22	EWFA122	1PB-S22
C28	.022 10%			DPMS2S22	EWFA122	1PB-S22
C29	.1		DC-104	MGP1	MAG5001	TG-P10
C32	.033 10%			DPMS6S33	EWFA133	6PS-S33
C33	.001 10%			DPMS601	EWFA210	1PB-010
C35	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C36	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C37	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C38	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C39	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C40	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C41	150 5%			CD7F0151J03	SX315	424MC1500J501
C42	22 NPO 10%		DTZ-22	NP022	CN0422	10TCC-Q22
C43	.01 10%			DPMS4S1	EWFA1110	1PB-S10
C44	.01		DC-103	GP10000	MAG5011	2SS-S10
C45	.01 10%			DPMS4S1	EWFA1110	1PB-S10

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.
C46	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C47	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C48	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C49	330 5%			CD15FD331J03	SX333	424ME3300J501
C50	.01		DC-103	GP10000	MAG5011	2SS-S10
C51	150 5%			CD7FD151J03	SX315	424MC1500J501
C52	33 NPO 10%		DTZ-33	NP033	CN0433	10TCC-Q33
C57	.04			DPMS6D5	PVC625	6PS-D50
C58	.039 10%			DPMS6S39	PVC6139	6PS-S39
C60	56				CN0456	10TCC-Q56
C64	56				CN0456	10TCC-Q56
C68	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C69	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C70	.1		DC-104	MGP1	MAG5001	TG-P10
C71	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C72	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C74	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C75	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C76	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C77	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C78	470 5%			CD15FD471J03	SX347	424ME4700J501
C79	15 NPO 10%		DTZ-15	NP015	CN0415	10TCC-Q15
C80	.01		OC-103	GP10000	MAG5011	2SS-S10
C81	100 NPO 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C82	39 NPO 10%				CN0439	10TCC-Q39
C83	200 NPO 10%		DTZ-200			10TCC-T20
C84	200 NPO 10%		DTZ-200			10TCC-T20
C86	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C87	.1		DC-104	MGP1	MAG5001	TG-P10
C88	.01		OC-103	GP10000	MAG5011	2SS-S10
C89	150 N220 10%				*	10TCR-T15
C90	150 H220 10%				*	10TCR-T15
C91	2 NPO +.5pF		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C92	2 NPO -.5pF		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C93	.01		OC-103	GP10000	MAG5011	2SS-S10
C94	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C95	.1		DC-104	MGP1	MAG5001	TG-P10
C96	.01		DC-103	GP10000	MAG5011	2SS-S10
C97	470 5%			CD15FD471J03	SX347	424ME4700J501
C98	470 5%			CD15FD471J03	SX347	424ME4700J501
C99	15 NPO 10%		DTZ-15	NP015	CN0415	10TCC-Q15
C100	.1		OC-104	MGP1	MAG5001	TG-P10
C101	330 5%			CD15FD331J03	SX333	424ME3300J501
C102	47 NPO 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C103	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C104	10 NPO 10%		DTZ-10	NP010	CN0410	10TCC-Q10
C105	.1		DC-104	MGP1	MAG5001	TG-P10
C106	360 10%			CD15FD361J03	SX336	424ME3600J501
C107	150 5%			CD7FD151J03	SX315	424MC1500J501
	180 10%			CD7FD181J03	SX318	424ME1800J501
C108	.04				GP140	5GA-S40
C109	.022 10%			DPMS2S22	EWFA1A122	1PB-S22
C110	.022 10%			DPMS2S22	EWFA1A122	1PB-S22
C111	.01			DPMS4S1	EWFA1A110	1PB-S10
C112	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C113	.001 10%			DPMS6D1	EWFA210	1PB-D10
C114	.0047 10%			DPMS6D47	EWFA247	1PB-D47
C115	.001 10%			DPMS6D1	EWFA210	1PB-D10
C116	.001 10%			DPMS6D1	EWFA210	1PB-D10
C117	120 NPO 10%		DTZ-120		CN0312	10TCC-T12
C118	120 NPO 10%		DTZ-120		CN0312	10TCC-T12
C119	56 NPO 5%				CN0456	10TCC-Q56
C120	27 NPO 10%				CN0427	10TCC-Q27
C121	20 NPO 10%		DTZ-20	NP020	CN0420	10TCC-Q20

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

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R66	Squelch Range	50K	P-6333	T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
R68	AMC	10K	P-6334	T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
R104	Drive	1000	P-6335	T-1000 (2)	C-102 (2)	MTC13L1 (2)	X201R102B (2)
R112	Squelch	50K	P-1643				
R113	Volume/Switch	50K	P-1642				

(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.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
TH1	500 (Cold)		T-1173 SOT-500	TH2	30 (Cold)		T-1174 (H-30)

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke	CB-0151			
L2	RF Choke	CA-2909			
L3	RF Choke	CB-2195			
L4	RF Choke	CB-2195			
L5	Pi Filter (27MHz)		BSNF-057		
L6	Pi Filter (27MHz)		10PNP-028		
L8	Ant. Load		4LNC-092		
T1	Rec. Ant. (27MHz)	CA-4696	TKXN-23345X		
T2	Rec. RF (27MHz)	CA-4695	TKXN-17008N		
T3	Rec. Mixer (10MHz)	CA-4697	TKXN-17575N		
T4	IF (455kHz)	CA-4701	7MC-352203N9		
T5	IF (455kHz)	CA-3062	4202		
T6	Synth Osc. (37MHz)	CA-7589	10PNO-091		
T9	Xmit Mixer (27MHz)		TKXN-23571Z		
T10	Harmonic Suppressor (27MHz)		TKXN-23571Z		
T11	Harmonic Suppressor (27MHz)	CA-4699	TKXC-15950N		
T12	Xmit Buffer (27MHz)	CA-4698	TKXC-23343N		
T13	Xmit Driver (27MHz)		7SND-061		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.	
L7	1.5A	.1	.15mH	CB-0152			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T7	2	1		TN-0081 E6228 (1)			(1) Number on unit.

REALISTIC MODEL TRC-61

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T8	8	8	T8-0385 E6436 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM, 8 Ohms	S-4631	30A05Z8R	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	2A	HF-0094		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	37.600	CX-0194	DASSW37.600	1,2,3,4	X8	10.170	CX-188	DCSSW10.170	2,6,10,14,18,22
X2	37.650	CX-0195	DASSW37.650	5,6,7,8	X9	10.160	CX-187	DCSSW10.160	3,7,11,15,19
X3	37.700	CX-0196	DASSW37.700	9,10,11,12	X10	10.140	CX-186	DCSSW10.140	2,8,12,16,20,23
X4	37.750	CX-0197	DASSW37.750	13,14,15,16	X11	10.635	CX-193	DBSSW10.635	1,5,9,13,17,21
X5	37.800	CX-0198	DASSW37.800	17,18,19,20	X12	10.625	CX-192	DBSSW10.625	2,6,10,14,18,22
X6	37.850	CX-0199	DASSW37.850	21,22,23	X13	10.615	CX-191	DBSSW10.615	3,7,11,15,19
X7	10.189	CX-0189	DCSSW10.180	1,5,9,13,17,21	X14	10.595	CX-190	DBSSW10.595	4,8,12,16,20,23

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Ceramic Filter	C-0658	455kHz
CR1	Det Network	RX-0017	7403
M1	Microphone	M-2263	
R115	Switch Network	RM5	
R119	Switch Network	RM5	
RY1	Relay	R-8075	Rec-Xmit
RY2	Relay	R-8076	Power, On-Off
SW1	Switch	S-1207	Channel
SW2	Switch	S-7261	Rec-Xmit
SW3	Switch	S-0681	Speaker

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	Z-2710	Knob, Volume or Squelch	K-2133
Speaker Switch Knob	HB-2523	Knob, Channel	GE-20D-5110
Top Cover	HB-2524	Knob, Talk	K-2134
Bottom Cover	GE-20B-5102		