

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 Tiger 23C

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

T6, T7, T8..... GC ELECTRONICS
5000, 8290
ALL others.....9440

PEARCE-SIMPSON MODEL TIGER 23C

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 base of TR3, low side to ground.	455kHz, 1000Hz @ 30% modulation output for suitable reading.	Any	T6, T7, T8	Adjust for maximum.
High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation output .5uV	13	T1, T2, T4, T5	Adjust for maximum.

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

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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 .5uV.	13	VR6	Adjust for 2V. AF output with volume at maximum.
SQUELCH RANGE High side thru .01uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output .5uV.	13	VR7	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	VR5	Adjust for "S" 9 reading on panel meter.

TRANSMITTER

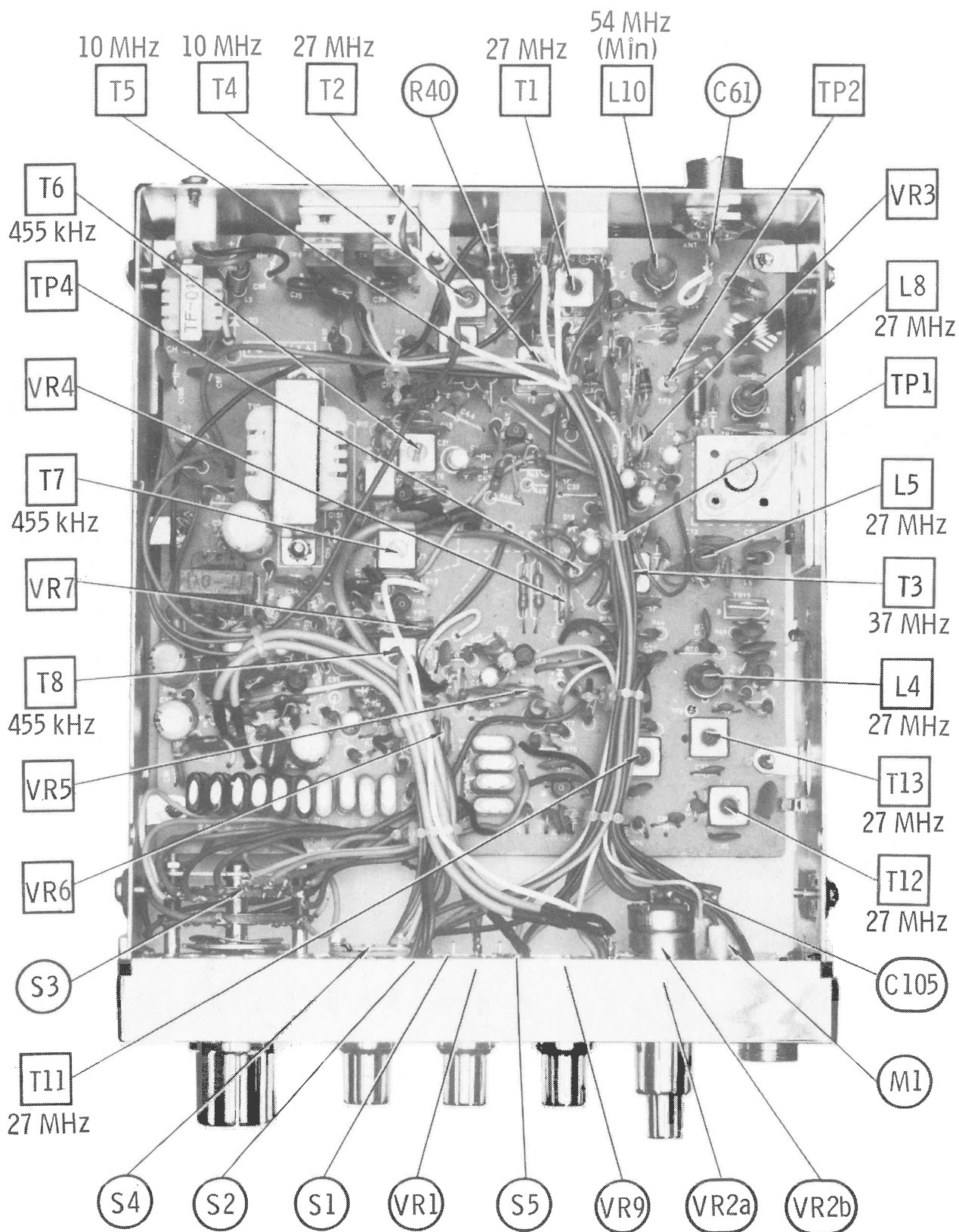
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

INDICATOR	ADJUST	REMARKS
OSCILLATOR RF Wattmeter to Antenna Jack	T3	RF VTVM to TP1 & TP4. Adjust for peak voltage, detune 10%.
MIXER, BUFFER, DRIVER, FINAL Same as above	T11, T12, T13	Channel selector to 13. Key transmitter. Adjust for maximum.
OUTPUT POWER RF Wattmeter	L4, L5, L8	Key transmitter. Adjust for maximum watts output.
TVI TRAP TV (Ch.2)	L10	Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Remove jumper at TP-2 and connect 0-.5A DC milliammeter between D11 and L-7.	L8	Adjust for 5 watts maximum.
FREQUENCY CHECK Frequency meter to Antenna Jack.		Check all channels $\pm .003\%$. Replace defective crystal if tolerance cannot be met.

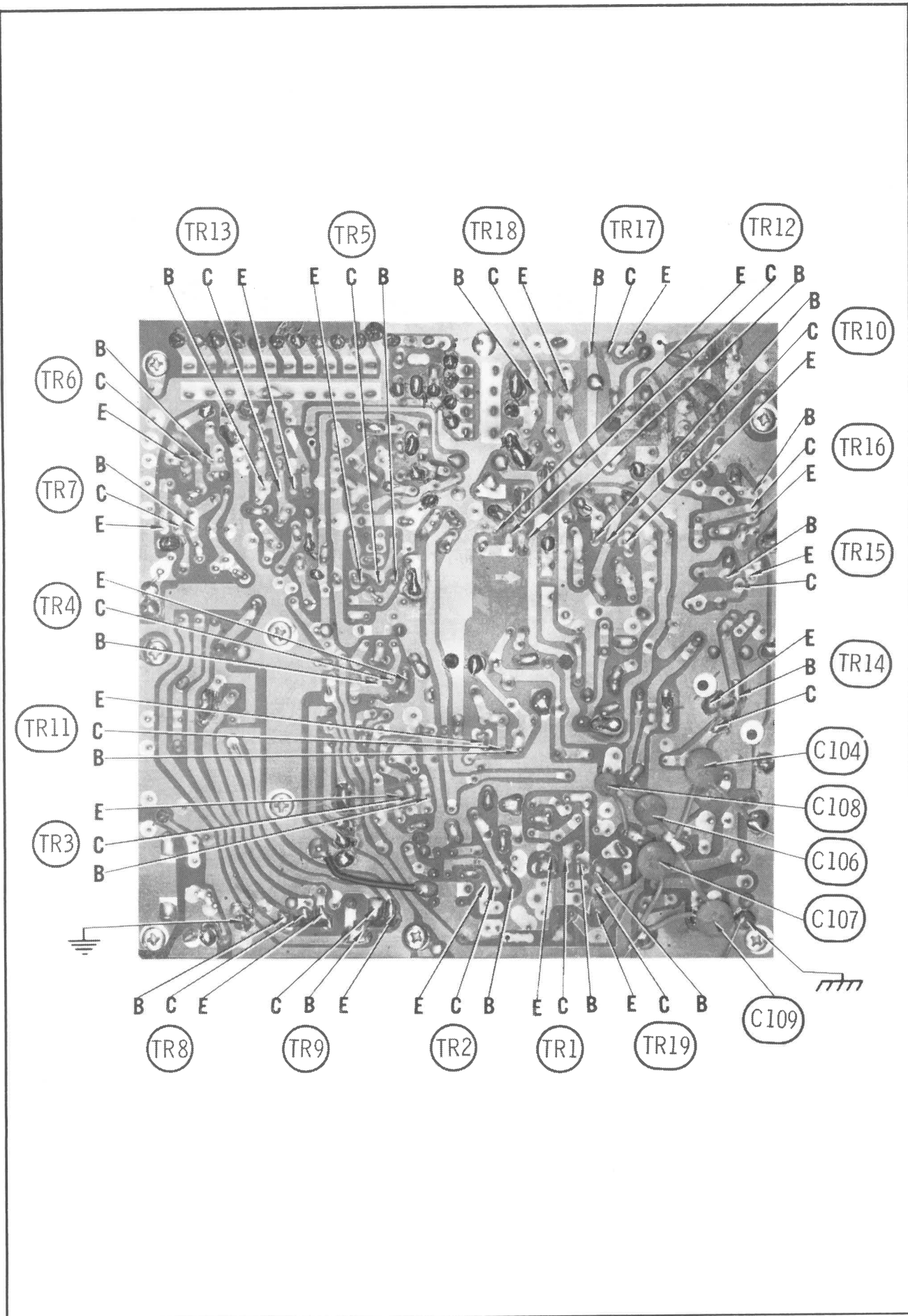
TRANSMITTER ADJUSTMENTS

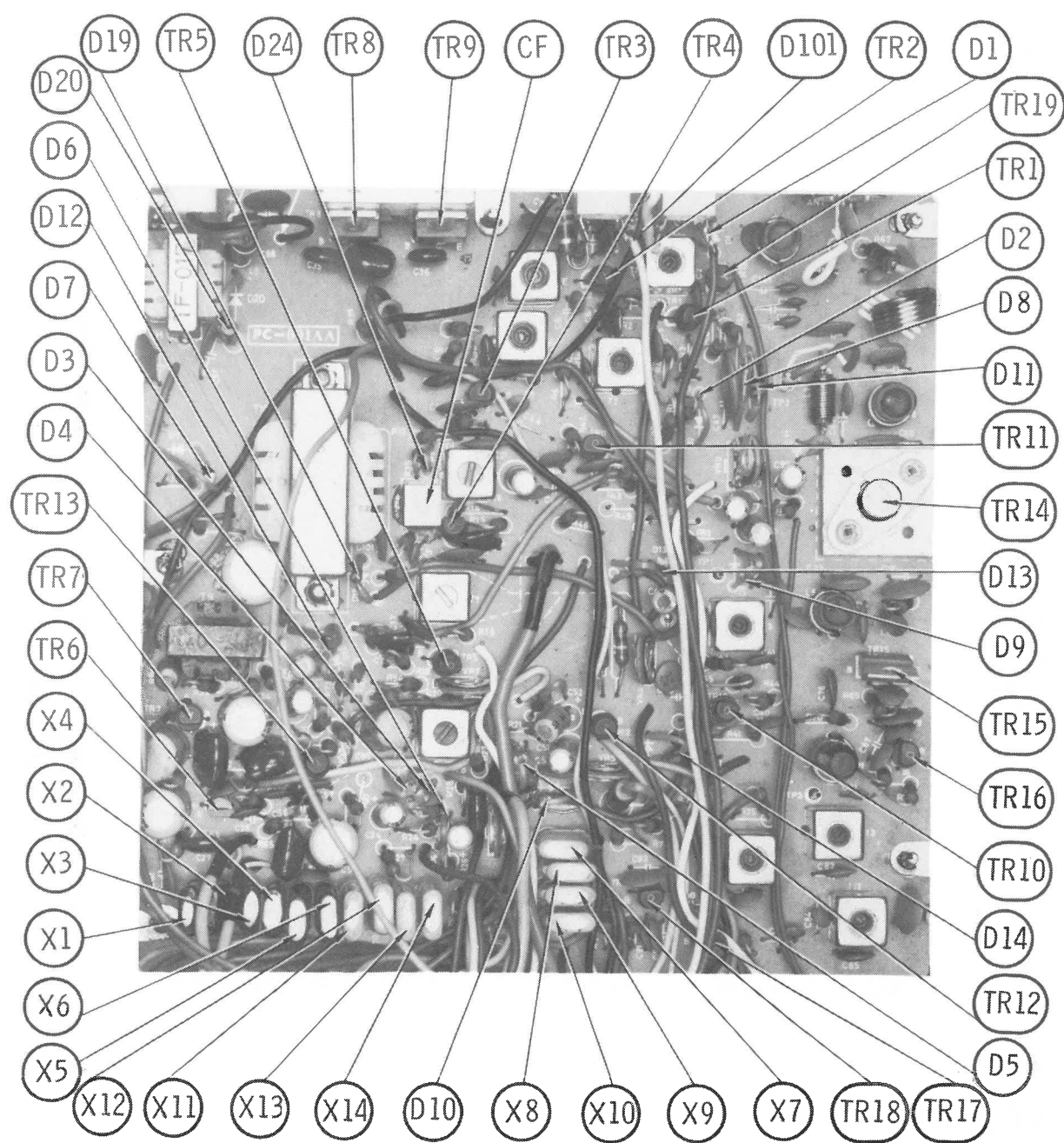
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

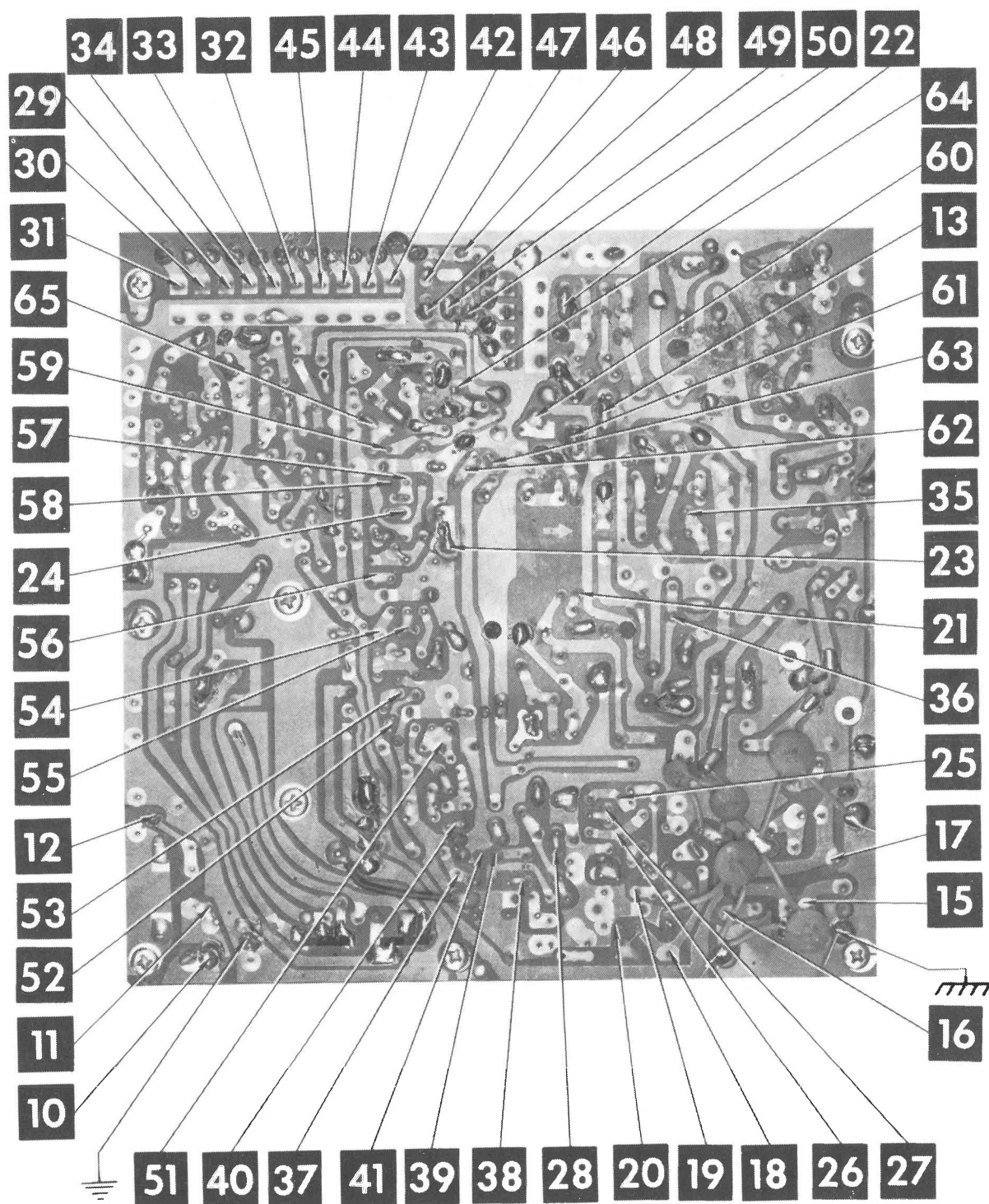
INDICATOR	ADJUST	REMARKS
PANEL MODULATION METER Oscilloscope or Modulation Indicator connected to Antenna Jack.	VR4	Set Mike Gain to maximum. Set S5 to modulation mode. Inject a 40mV 1000Hz audio signal at mic input J3. Key transmitter. Adjust so that panel meter agrees with scope or indicator (Should be 100%).
RF PANEL METER RF Wattmeter to Antenna Jack.	VR3	Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.

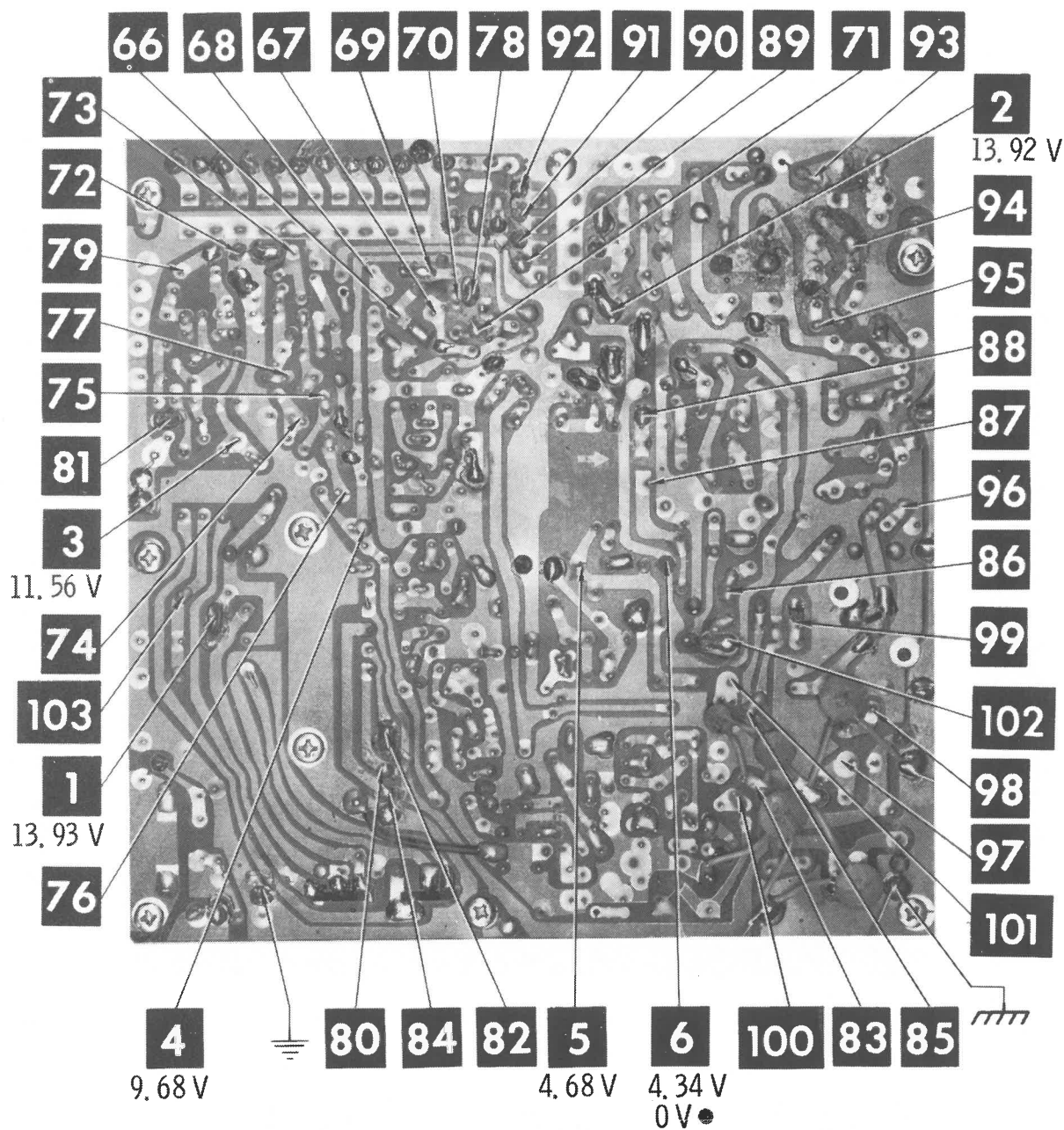


PEARCE-SIMPSON MODEL TIGER 23C

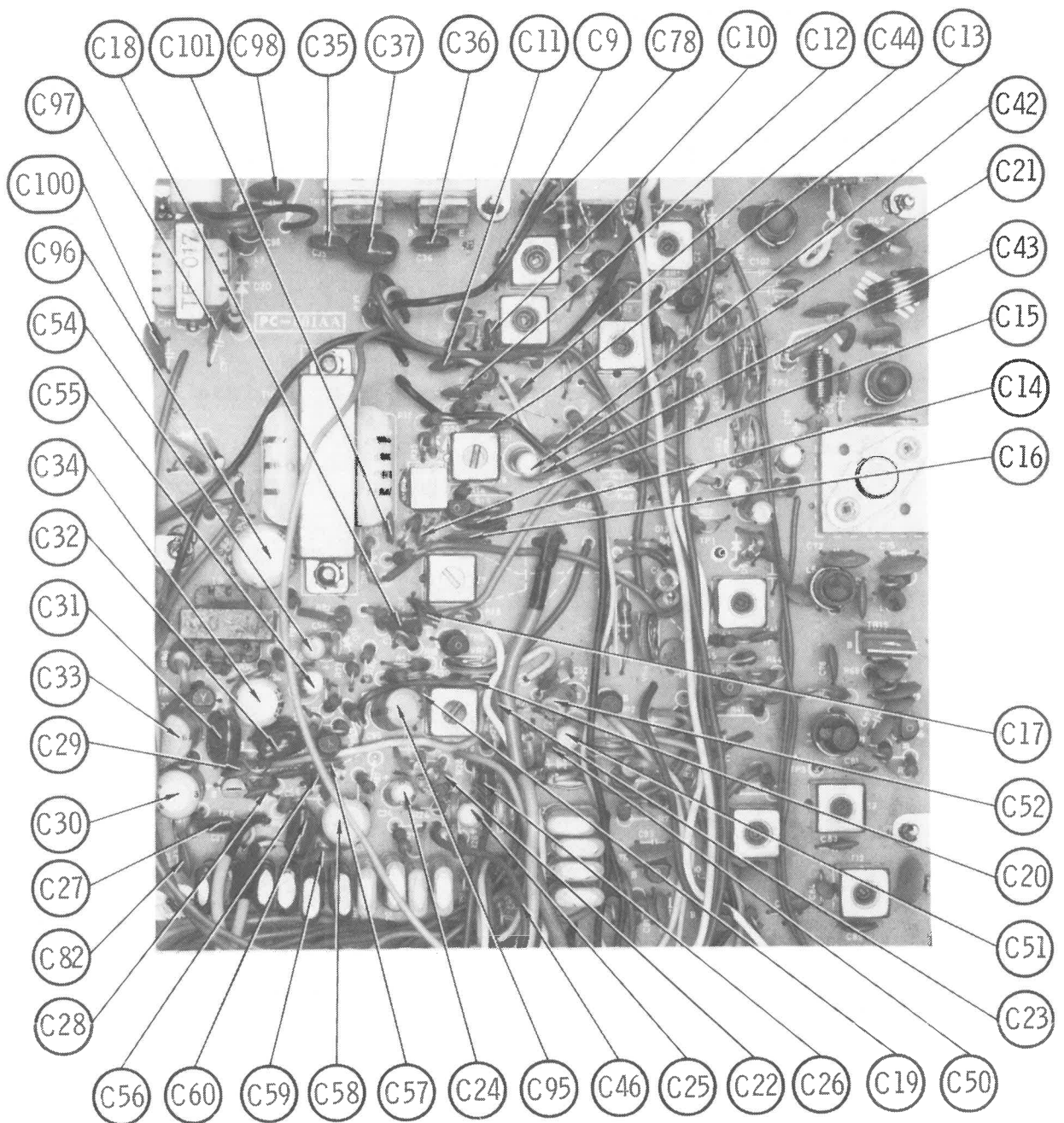


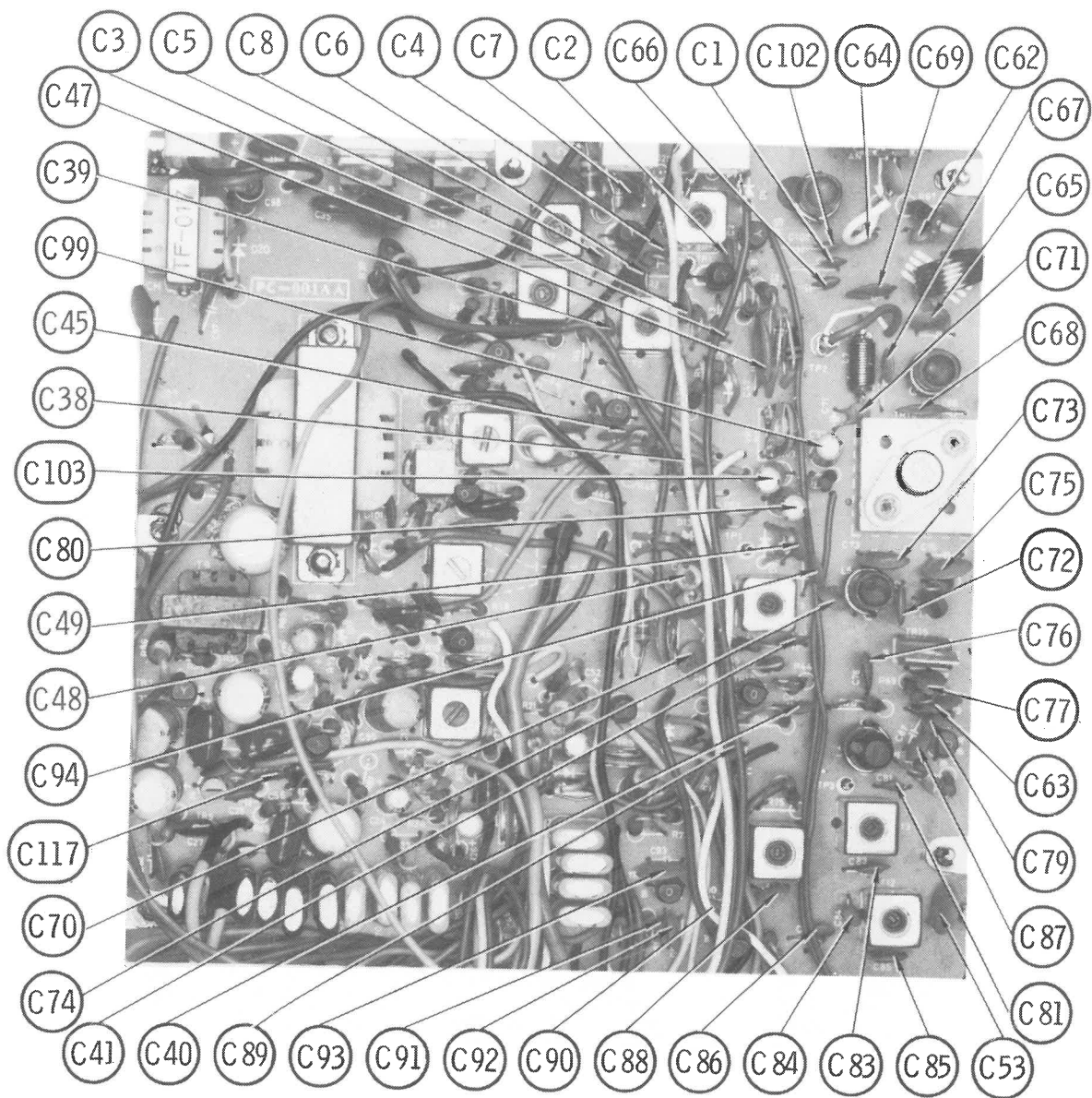


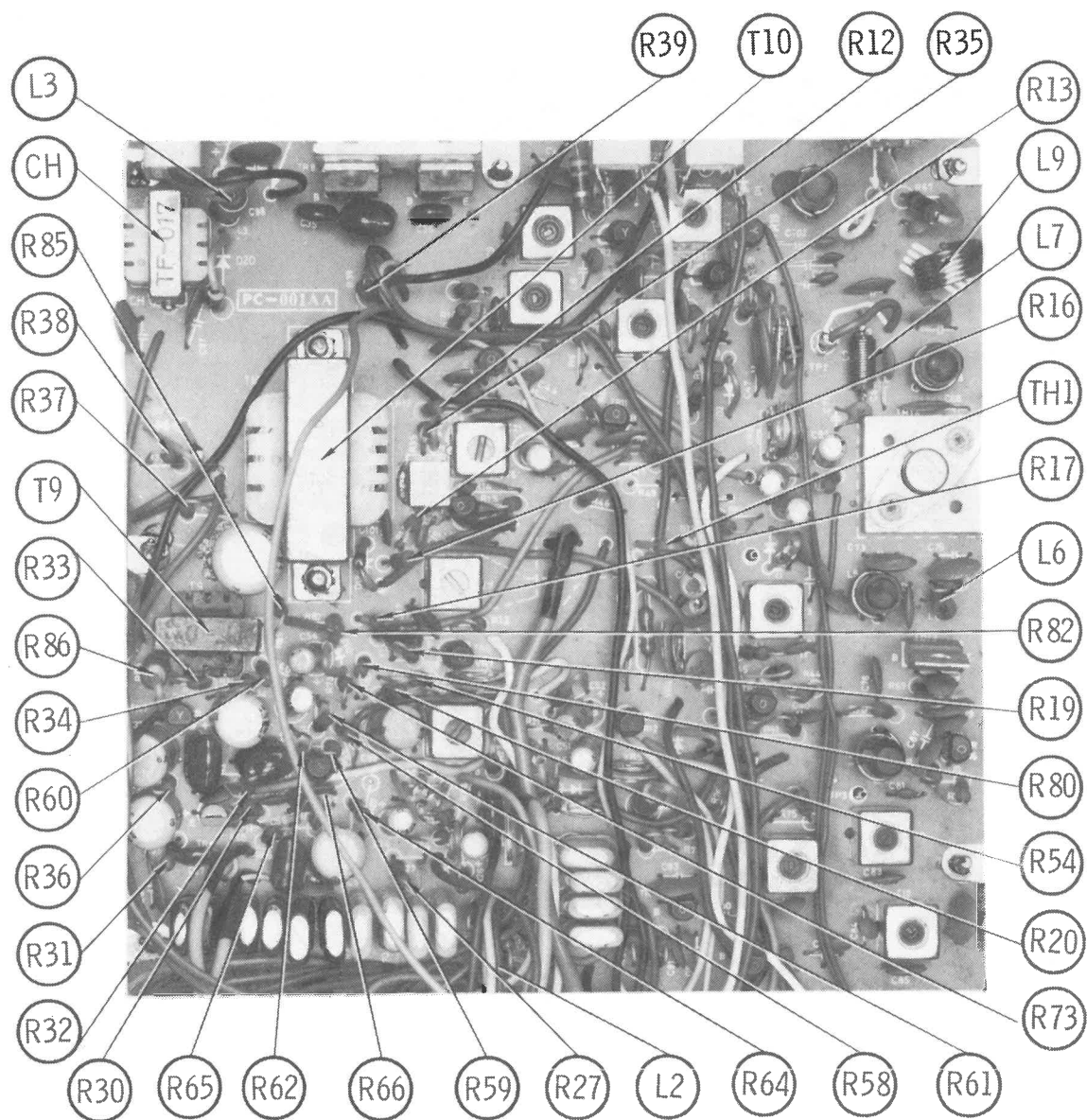


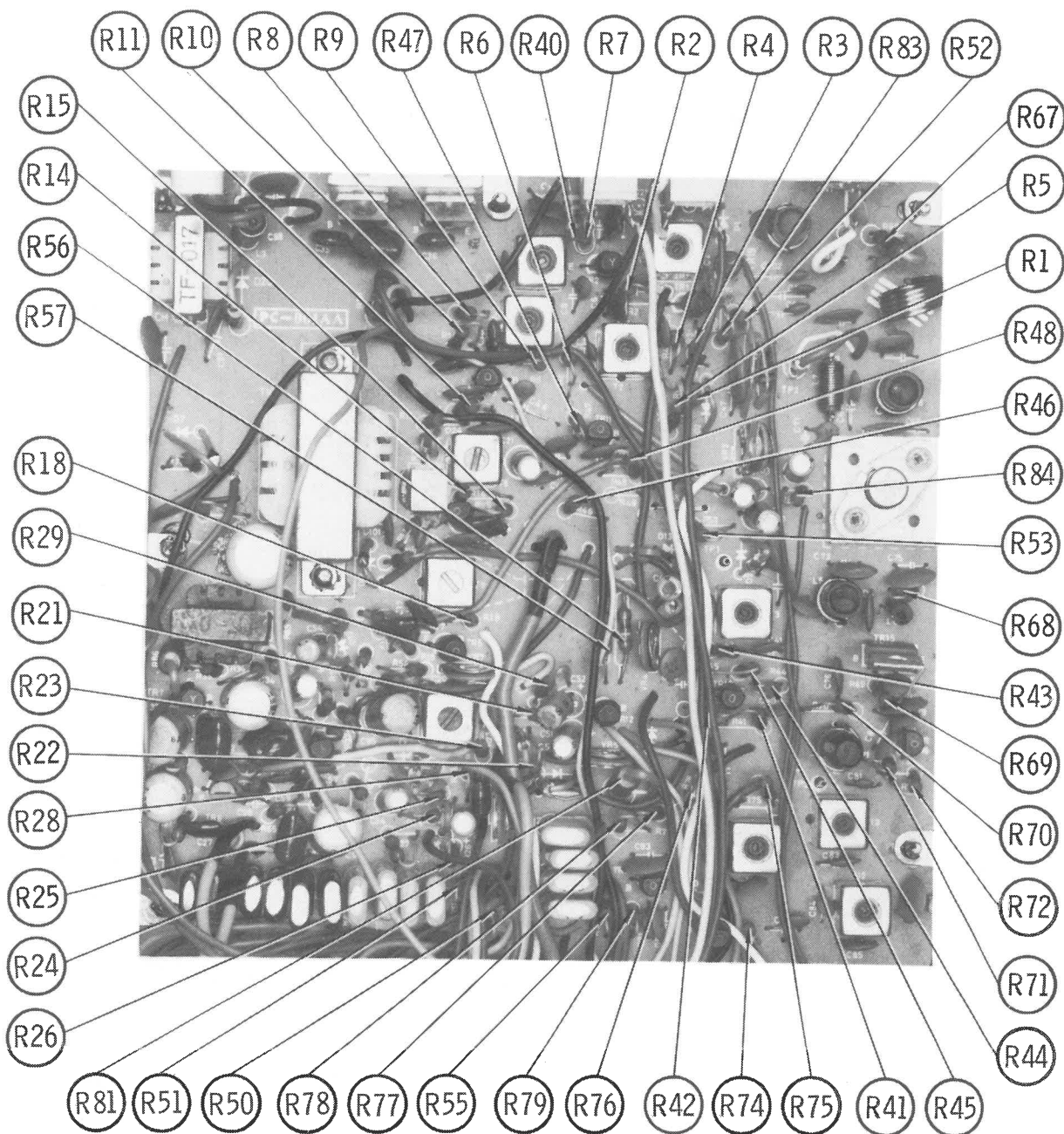


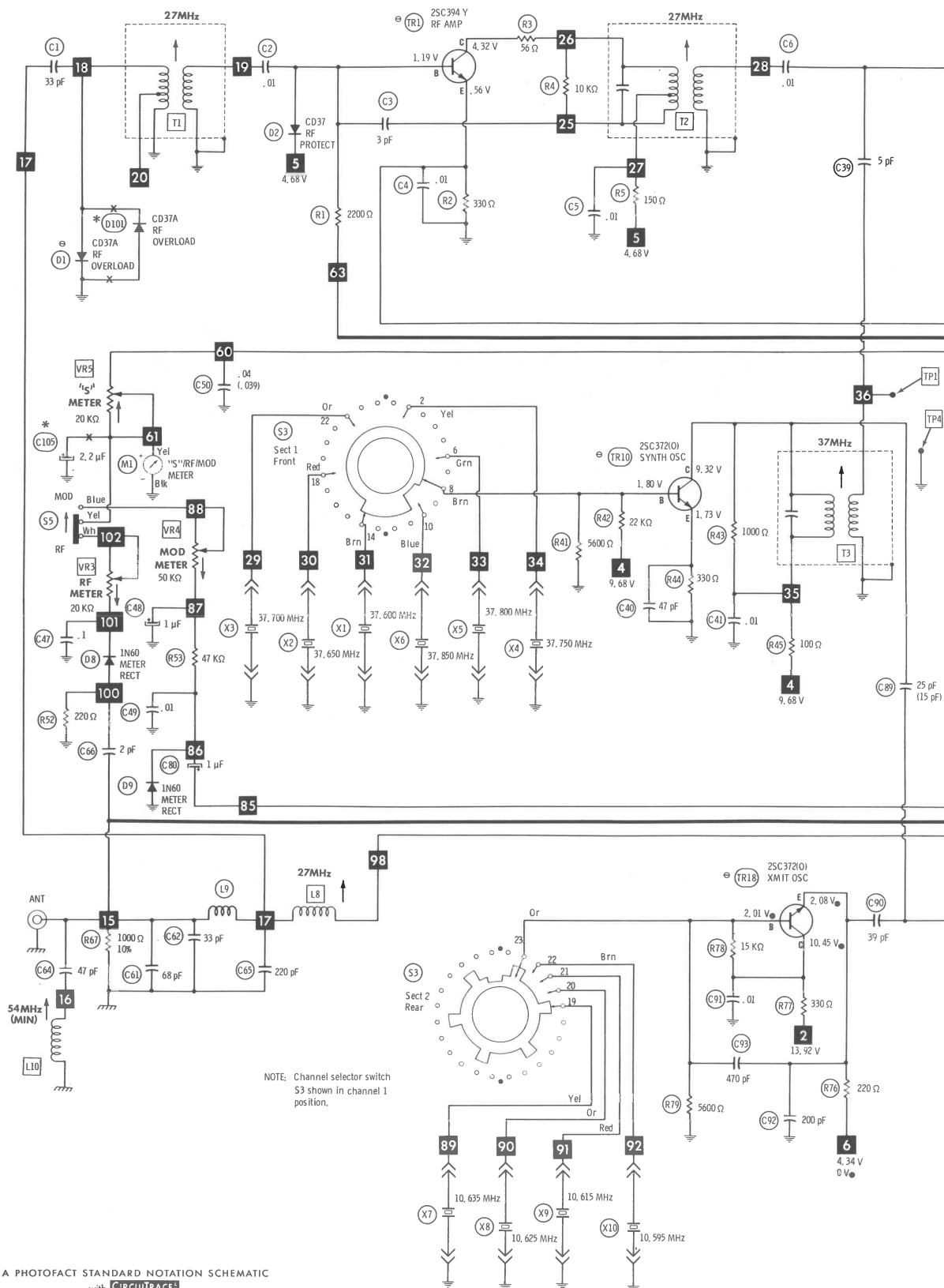
PEARCE-SIMPSON MODEL TIGER 23C

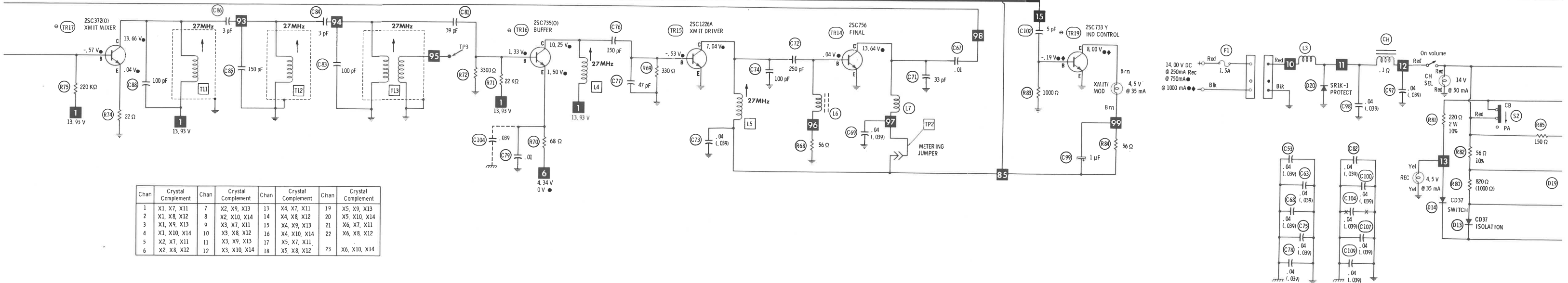
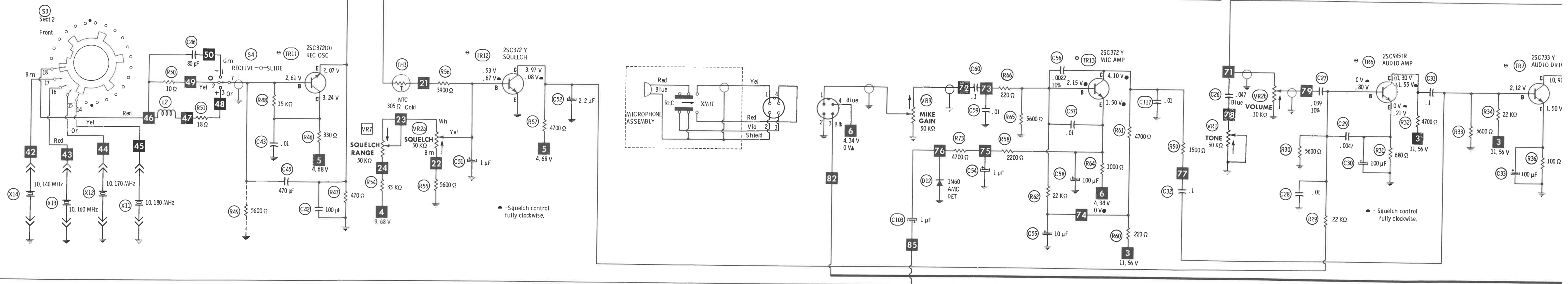
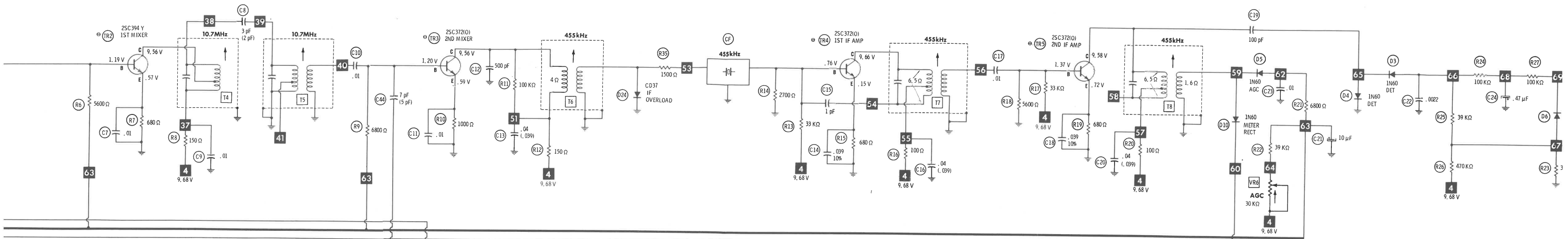




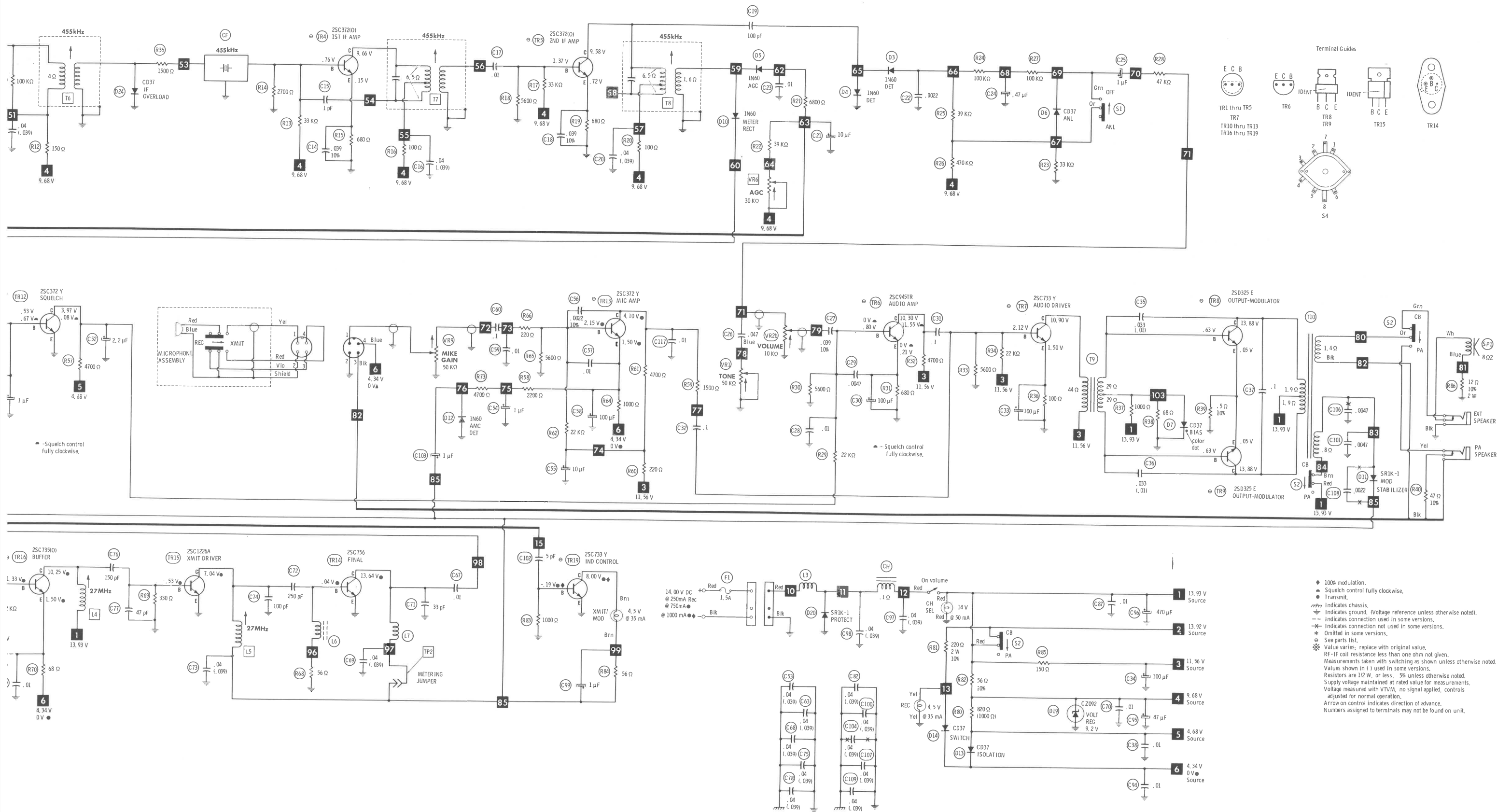








Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X7, X11	7	X2, X9, X13	13	X4, X7, X11	19	X5, X9, X13
2	X1, X8, X12	8	X2, X10, X14	14	X4, X8, X12	20	X5, X10, X14
3	X1, X9, X13	9	X3, X7, X11	15	X4, X9, X13	21	X6, X7, X11
4	X1, X10, X14	10	X3, X8, X12	16	X4, X10, X14	22	X6, X8, X12
5	X2, X7, X11	11	X3, X9, X13	17	X5, X7, X11		
6	X2, X8, X12	12	X3, X10, X14	18	X5, X8, X12	23	X6, X10, X14



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
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
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 inch)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE / MFR. No./PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	CD37A	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
	CD37	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D2	CD37	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D3	1N60	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D4	1N60	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D5	1N60	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D6	CD37	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D7	CD37	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D8	1N60	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D9	1N60	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D10	1N60	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D11	SR1K-1	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D12	1N60	1N60	1N60	PTC206	HEP135	SK3088	RT263	ECG 109
D13	CD37	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D14	CD37	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D19	CZ092	GEZD-9.1	Z-1210	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D20	9.2V Zener SR1K-1	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D24	CD37	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D101	CD37A	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
TR1	2SC394Y	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
	2SC394 (1)	GE-20	TR-33	PTC123	HEP53	SK3018	RT108	ECG 107
TR2	2SC394Y	GE-17	TR-33	PTC139	HEP53	SK3018	RT108	ECG 107
	2SC394 (1)	GE-20	TR-33	PTC123	HEP53	SK3018	RT108	ECG 107
TR3	2SC372(0)	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR4	2SC372(0)	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR5	2SC372(0)	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR6	2SC945TR	GE-20	TR-21	PTC136	HEP728	SK3124	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR7	2SC733Y	GE-20	TR-21	PTC123	HEP729	SK3122	RT100	ECG 123A
	2SC733 (1)	GE-20	TR-33	PTC121	HEP729	SK3020	RT102	ECG 123A
TR8	2SD325E (2)	GE-28	TR-55	PTC110	HEP245	SK3054	RT154	ECG 152
	2SC1173 (1) (3)	GE-66	TR-55	PTC110		SK3054	RT154	ECG 152
TR9	2SD325E (2)	GE-28	TR-55	PTC110	HEP245	SK3054	RT154	ECG 152
	2SC1173 (1) (3)	GE-66	TR-55	PTC110		SK3054	RT154	ECG 152
TR10	2SC372(0)	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR11	2SC372(0)	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR12	2SC372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR13	2SC372Y	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR14	2SC756 (4)			PTC158		SK3049		ECG 237
TR15	2SC1226A (3)	GE-28	TR-55	PTC110	HEPS3023	SK3054	RT154	ECG 186
TR16	2SC735(0)	GE-17	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
	2SC735 (1)	GE-20	TR-21	PTC136	HEP53	SK3122	RT102	ECG 123A
TR17	2SC372(0)	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR18	2SC372(0)	GE-20	TR-24	PTC139	HEP55	SK3018	RT102	ECG 123A
	2SC372 (1)	GE-10	(1R)2SC372	PTC121	HEP55	SK3018	RT107	ECG 123A
TR19	2SC733Y	GE-20	TR-21	PTC123	HEP729	SK3122	RT100	ECG 123A
	2SC733	GE-20	TR-33	PTC121	HEP729	SK3020	RT102	ECG 123A

- (1) Alternate.
(2) Rating 10 watts @ 1.5 amps.
(3) Rating 10 watts @ 3 amps.
(4) Rating 10 watts @ 4 amps.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.
C21	10 16V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C24	.47 50V					TDC474M050EL	SD50-R479
C25	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C30	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C33	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C34	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C48	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C51	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C52	2.2 25V		RME-A-G-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C54	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C55	10 16V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C58	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C80	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C95	47 16V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C96	470 16V		RME-L-E-500	EP15-500	PC500-16	MTV500DN15	EV-1250
C99	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C103	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C105	2.2 25V		RME-A-G-002	EP30-2	PC2-100	VTT2R2A50	EV-1317

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMenco PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C2	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C3	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C4	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C5	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C6	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C7	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C8	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C9	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C10	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C11	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C12	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C13	.04		CCD-403			GP140	5GA-S40
C14	.039 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C15	1					CN0510	10TCC-V10
C16	4					CN0537	10TCC-V47
C17	.01		CCT0-4R7	DTZ-4R7	NP04P7	DPMS4S1	1PB-S10
C18	.039 10%		1MDF-1-103	CPJ-103	DPMS6S39	PVC6139	6PS-S39
C19	100		6DP-3-393		NP0100	CN0310	10TCC-T10
C20	.04		CCD-101	DTZ-100		GP140	5GA-S40
C22	.0022		CCD-222			GP222	10TS-D22
C23	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C26	.047		1MDF-2-473		DPMS2S47	EWFA1A147	1PB-S47
C27	.039 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C28	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C29	.0047		CCD-472	DD-472	GP4700	GP247	2SS-D47
C31	.1		1MDF-3-104		DPMS2P1	EWFA0A10	1PB-P10
C32	.1		1MDF-3-104		DPMS2P1	EWFA0A10	1PB-P10
C35	.033		6DP-3-333		DPMS6S33	EWFA1A110	6PS-S33
C36	.033		6DP-3-333		DPMS6S33	EWFA1A110	6PS-S33
C37	.1		1MDF-3-104		DPMS2P1	EWFA0A10	1PB-P10
C38	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C39	5		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
C40	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C41	.01		CCD-103	DTZ-103	GP10000	MAG5011	2SS-S10
C42	100		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10

PARTS LIST AN

(When ordering pa

CAPACITORS (C

ITEM No.	RATING
C43	.01
C44	7
C45	470
C46	80
C47	.1
C49	.01
C50	.04
C53	.04
C56	.0022
C57	.01
C59	.01
C60	.1
C61	68
C62	33
C63	.04
C64	47
C65	220
C66	2
C67	.01
C68	.04
C69	.04
C70	.01
C71	33
C72	250
C73	.04
C74	100
C75	.04
C76	150
C77	47
C78	.04
C79	.01
C81	39
C82	.04
C83	100
C84	3
C85	150
C86	3
C87	.01
C88	100
C89	25
C90	39
C91	.01
C92	200
C93	470
C94	.01
C97	.04
C98	.04
C100	.04
C101	.0047
C102	5
C104	.04
C106	.0047
C107	.04
C108	.0022
C109	.04
C117	.01

CONTROLS (All

ITEM No.	FUNCTION
VR1	Tone
VR2a	Squelch
b	Volume/Switch
VR3	RF Meter
VR4	Modulation
VR5	"S" Meter
VR6	AGC
VR7	Squelch Range
VR9	Mike Gain

(2) Cut off one of the c

PEARCE-SIMPSON MODEL TIGER 23C

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C21	10 16V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C24	.47 50V					TDC474M050EL	SD50-R479
C25	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C30	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C33	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C34	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C48	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C51	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C52	2.2 25V		RME-A-G-002	EP30-2	PC2-100	VTT2R2A50	EV-1317
C54	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C55	10 16V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C58	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C80	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C95	47 16V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1615
C96	470 16V		RME-L-E-500	EP15-500	PC500-16	MTV500DN15	EV-1226
C99	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1250
C103	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C105	2.2 25V		RME-A-G-002	EP30-2	PC2-100	VTT2R2A50	EV-1317

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C2	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C3	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C4	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C5	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C6	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C7	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C8	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C9	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C10	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWF1A110	1PB-S10
C11	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWF1A110	1PB-S10
C12	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C13	.04		CCD-403			GP140	5GA-S40
C14	.039 10%		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C15	1					CN0510	10TCC-V10
C16	4					CN0537	10TCC-V47
C17	.01		CCT0-4R7	DTZ-4R7	NP04P7	CN0537	10TCC-V47
C18	.039 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWF1A110	1PB-S10
C19	100		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C20	.04		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C22	.0022		CCD-403			GP140	5GA-S40
C23	.01		CCD-222			GP222	10TS-D22
C26	.047		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C27	.039 10%		1MDF-2-473		DPMS2S47	EWF1A147	1PB-S47
C28	.01		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C29	.0047		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C31	.1		CCD-472	DD-472	GP4700	GP247	2SS-D47
C32	.1		1MDF-3-104		DPMS2P1	EWF1A010	1PB-P10
C35	.033		1MDF-3-104		DPMS2P1	EWF1A010	1PB-P10
C36	.033		6DP-3-333		DPMS6S33	EWF6133	6PS-S33
C37	.1		6DP-3-333		DPMS6S33	EWF6133	6PS-S33
C38	.01		1MDF-3-104		DPMS2P1	EWF1A010	1PB-P10
C39	5		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C40	47		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
C41	.01		CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C42	100		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
			CCT0-101	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	MFGR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C43	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C44	7		CCT0-6R8	DTZ-6R8	NP06P8	CN0568	10TCC-V68
C45	470		CCD-471	DD-471	GP470	GP347	10TS-T47
C46	80			DTZ-82	NP082	CN0482	10TCC-Q82
C47	.1			DC-104	MGP1	MAG5001	TG-P10
C49	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C50	.04		CCD-403			GP140	5GA-S40
C53	.04		CCD-403			GP140	5GA-S40
C56	.0022		6DP-1-222	CPR-2200J	DPMS6D22	EWF6222	6PS-D22
C57	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C59	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C60	.1		1MDF-3-104		DPMS2P1	EWF1A010	1PB-P10
C61	68		CCD-680	DD-680	GP468	GP68	10TS-Q68
C62	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C63	.04		CCD-403			GP140	5GA-S40
C64	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C65	220		CCD-221	DD-221	GP322	CN0522	10TS-T22
C66	2		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C67	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C68	.04		CCD-403			GP140	5GA-S40
C69	.04		CCD-403			GP140	5GA-S40
C70	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C71	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C72	250			DTZ-270			10TCC-T27
C73	.04		CCD-403			GP140	5GA-S40
C74	100		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C75	.04		CCD-403			GP140	5GA-S40
C76	150		CCD-151	DD-151		CN0315	10TCC-T15
C77	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C78	.04		CCD-403			GP140	5GA-S40
C79	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C81	39		CCT0-390			CN0439	10TCC-Q39
C82	.04		CCD-403			GP140	5GA-S40
C83	100		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C84	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C85	150		CCD-151	DD-151		CN0315	10TCC-T15
C86	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C87	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C88	100		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C89	25			DTZ-25	NP025	CN0425	10TCC-Q25
C90	39					CN0439	10TCC-Q39
C91	.01		CCT0-390	DC-103	GP10000	MAG5011	2SS-S10
C92	200		CCD-103	DD-201	GP200	GP320	10TS-T20
C93	470		CCD-471	DD-471	GP470	GP347	10TS-T47
C94	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C97	.04		CCD-403			GP140	5GA-S40
C98	.04		CCD-403			GP140	5GA-S40
C100	.04		CCD-403			GP140	5GA-S40
C101	.0047		CCD-472	DD-472	GP4700	GP247	2SS-D47
C102	5		CCT0-050			GP140	10TCC-V50
C104	.04		CCD-403			GP140	5GA-S40
C106	.0047		CCD-472	DD-472	GP4700	GP247	2SS-D47
C107	.04		CCD-403			GP140	5GA-S40
C108	.0022		CCD-222	DD-222		GP222	2SS-D22
C109	.04		CCD-403			GP140	5GA-S40
C117	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	Tone	50K					
VR2a	Squelch	50K					
b	Volume/Switch	10K					
VR3	RF Meter	20K		T-20K (2) or TSV-25K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)
VR4	Modulation	50K		TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR5	"S" Meter	20K		T-20K (2) or TSV-25K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)
VR6	AGC	30K		TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR7	Squelch Range	50K		TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR9	Mike Gain	50K					

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

PARTS LIST AND DESCRIPTION (CONTINUED)

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

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
TH1	305 CoId NTC		(TD5-A130)				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L2	RF Choke (2.2uH)		2R2		
L3	Line Choke		TC-71030		
L4	Buffer (27MHz)		TC-71026		
L5	Xmit. Driver (27MHz)		TC-71023		
L6	RF Choke (2.2uH)		2R2		
L7	RF Choke		TC-71029		
L8	Final Amp (27MHz)		TC-71025		
L9	Pi Network (27MHz)		NS-1344		
L10	TVI Trap (54MHz)		TC-71024		
T1	Rec. Ant (27MHz)		TKXN-22160BU		
T2	Rec. RF (27MHz)		TKXC-22534BU		
T3	Synth. Osc. (37MHz)		TKXC-22535BU		
T4	1st Mixer (10MHz)		TKAC-22536IE		
T5	1st Mixer (10MHz)		TKAC-21165A		
T6	Input IF(455kHz)		YLN-20844BM		
T7	Interstage IF(455kHz)		YOC-1500IF		
T8	Output IF(455kHz)		YMC-1502A		
T11	Xmit. Mixer (27MHz)		KXN-13638HM		
T12	Xmit. Mixer (27MHz)		KXN-13638HM		
T13	Xmit. Mixer (27MHz)		13636		

PEARCE-SIMPSON MODEL TIGER 23C

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	1000mA	.1	1.3mH	(TF-017 115C (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.	
T9	1	1		(TF-011) 69M (1)				(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T10	128	8	(TF-016)				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	4" PM, 8 Ohms	(SP-003)	4A1Z8	

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	1.5 Amp			AGC 1 1/2	HDJ	3101.5	150145	FG 1 1/2-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Ceramic Filter		(LF-B6) 455kHz
M1	Meter	(MT-01S)	"S"/RF Mod
S1	Switch	(SW-020)	ANL
S2	Switch	(SW-020)	CB/PA
S3	Switch	(SR-046)	Channel Selector
S4	Switch	(SR-050)	Receive-0-Slide
S5	Switch	(SW-034)	Mod-RF
X1	Crystal	(QX-009)	37.600MHz
X2	Crystal	(QX-009)	37.650MHz
X3	Crystal	(QX-009)	37.700MHz
X4	Crystal	(QX-009)	37.750MHz
X5	Crystal	(QX-009)	37.800MHz
X6	Crystal	(QX-009)	37.850MHz
X7	Crystal	(QX-006)	10.635MHz
X8	Crystal	(QX-006)	10.625MHz
X9	Crystal	(QX-006)	10.615MHz
X10	Crystal	(QX-006)	10.595MHz
X11	Crystal	(QX-005)	10.180MHz
X12	Crystal	(QX-005)	10.170MHz
X13	Crystal	(QX-005)	10.160MHz
X14	Crystal	(QX-005)	10.140MHz

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	(MK-002)	