

SAMS PHOTOFACT[®] CB RADIO SERIES



CB-32
32
FEBRUARY 1971



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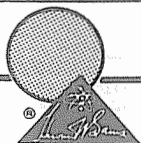
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HOWARD W. SAMS & CO., INC. Indianapolis, Indiana



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.



PEARCE-SIMPSON MODEL BEARCAT 23

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

A1 Thru A4, A13, A18 Thru A24.....GENERAL CEMENT #8868, 9089

A5 Thru A12, A14 Thru A17.....GENERAL CEMENT #8606L, 9440

PEARCE-SIMPSON MODEL BEARCAT 23

RECEIVER

Connect an AC VTVM across speaker voice coil. Set Volume control at maximum (10), and Squelch control at minimum (0).

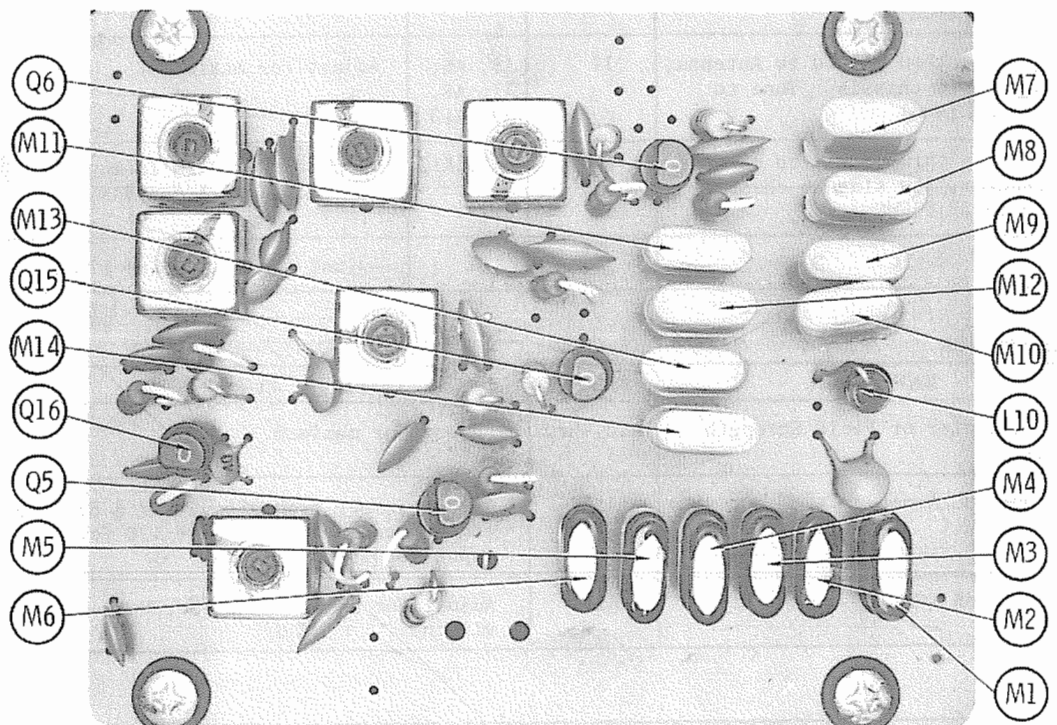
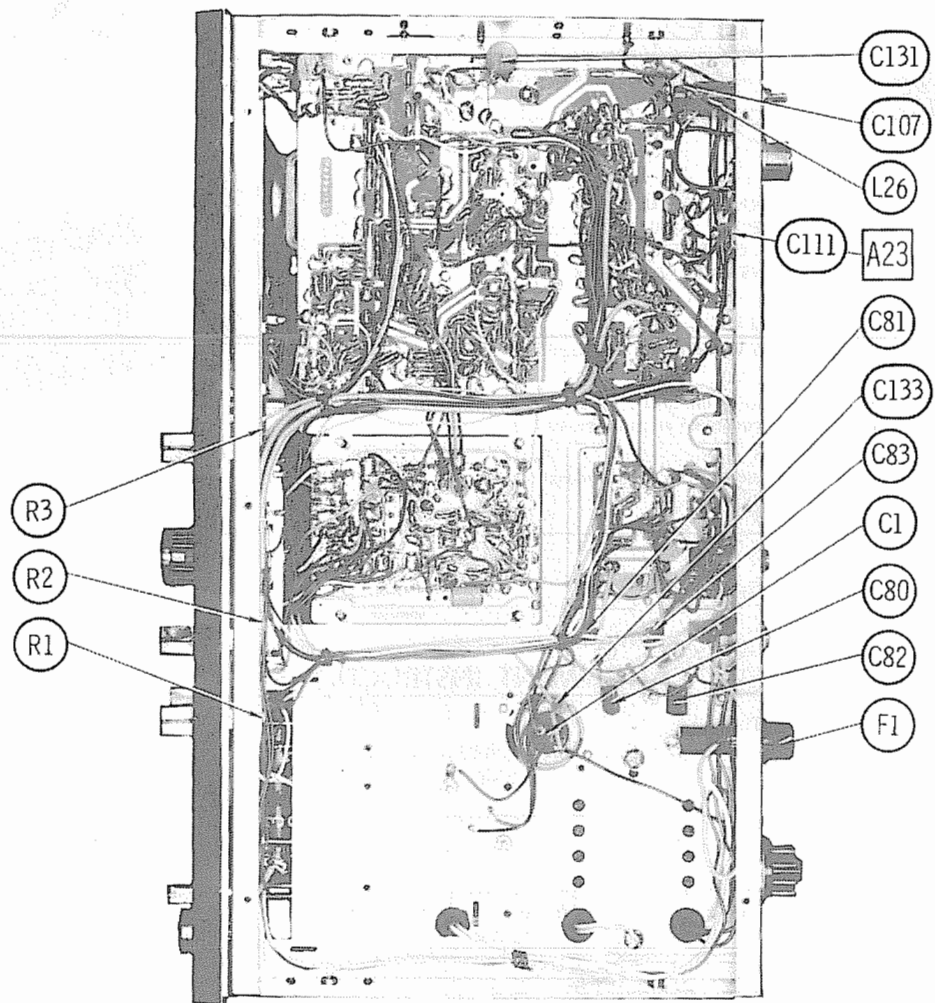
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to point $\diamond A$, low side to chassis. Tune to 455KC (Mod)	Any	A1,A2, A3, A4	Adjust for maximum.
High side thru .01mfd to Antenna, low side to chassis. Tune to 27.085MC (Mod)	11	A5, A6, A7, A8, A9, A10	Adjust for maximum.
High Side thru .01mfd to antenna connector, low side to chassis. Tune to 27.085MC	11	A11,A12	Connect a DC VTVM from point $\diamond B$ to ground. Adjust for maximum.
		A13	Adjust for best noise blanking.

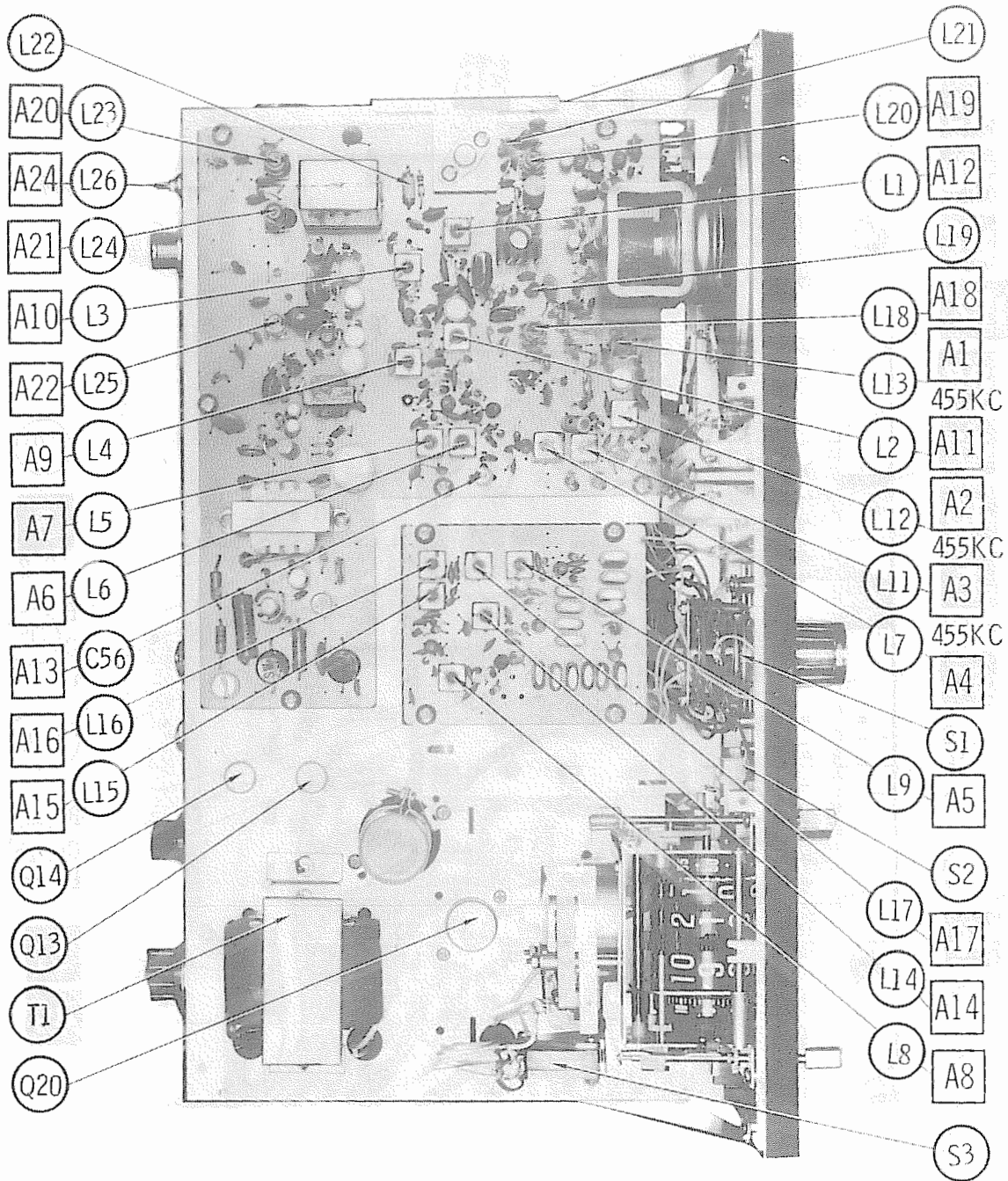
TRANSMITTER

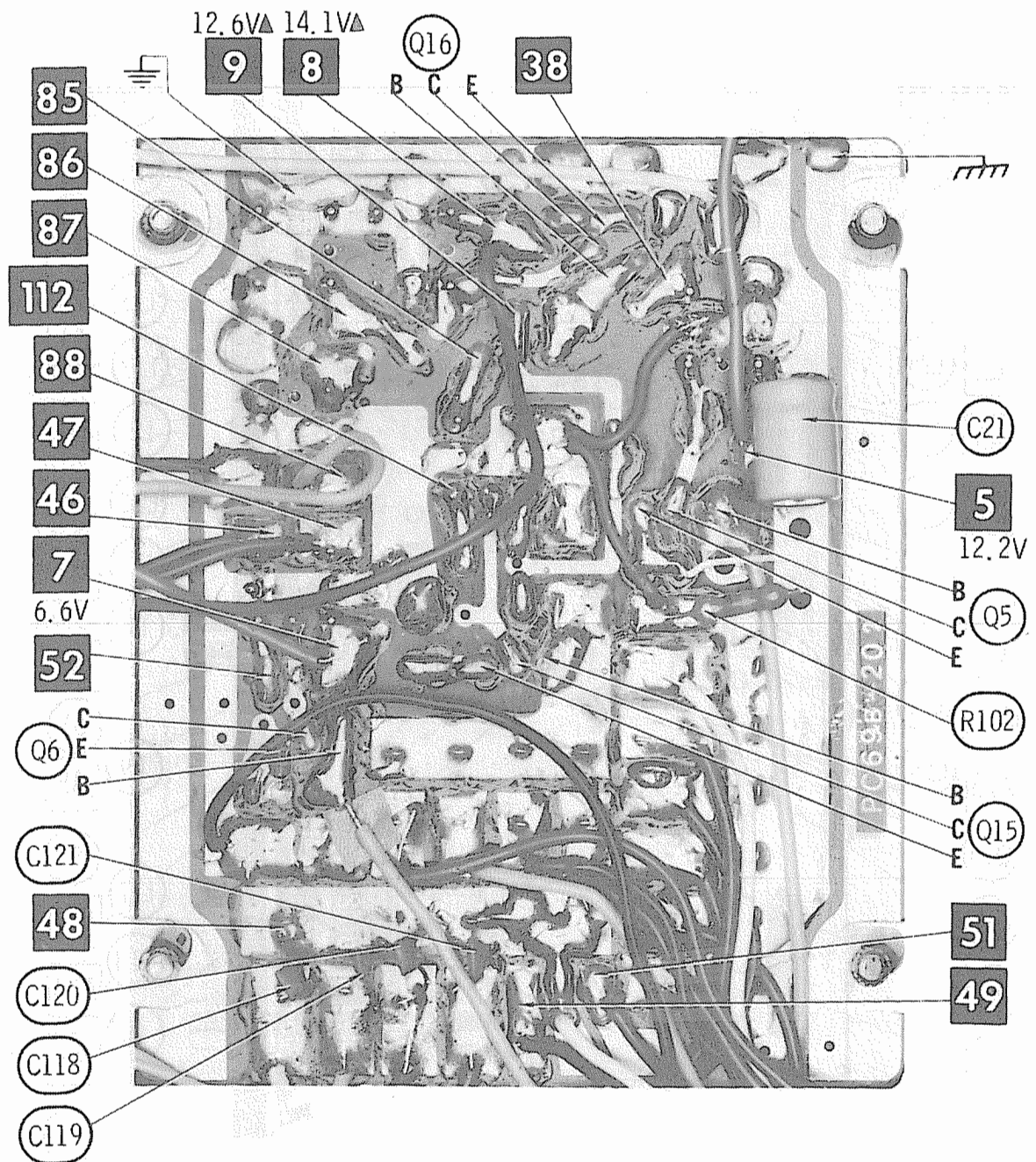
INDICATOR	ADJUST	REMARKS
RF Wattmeter or Field Strength meter.	A14 Thru A23	Adjust for maximum.
0-500ma DC Ammeter	A20	Remove jumper from pins 5 and 6 of power plug and connect meter. Adjust A20 for 5 watts input to Q19 (Final Amp).
Television (Ch. 2)	A24	Adjust for minimum interference on the television.

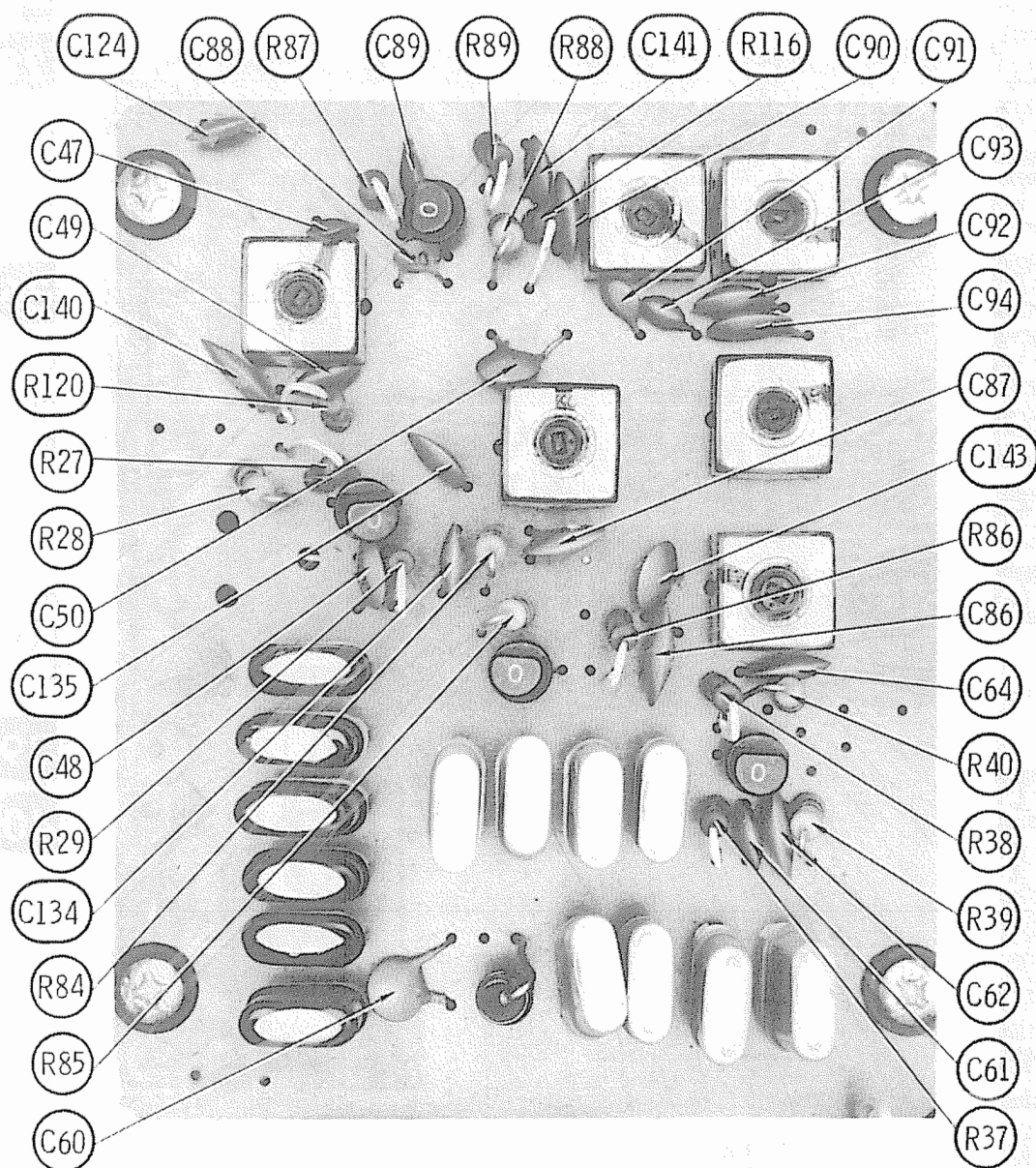
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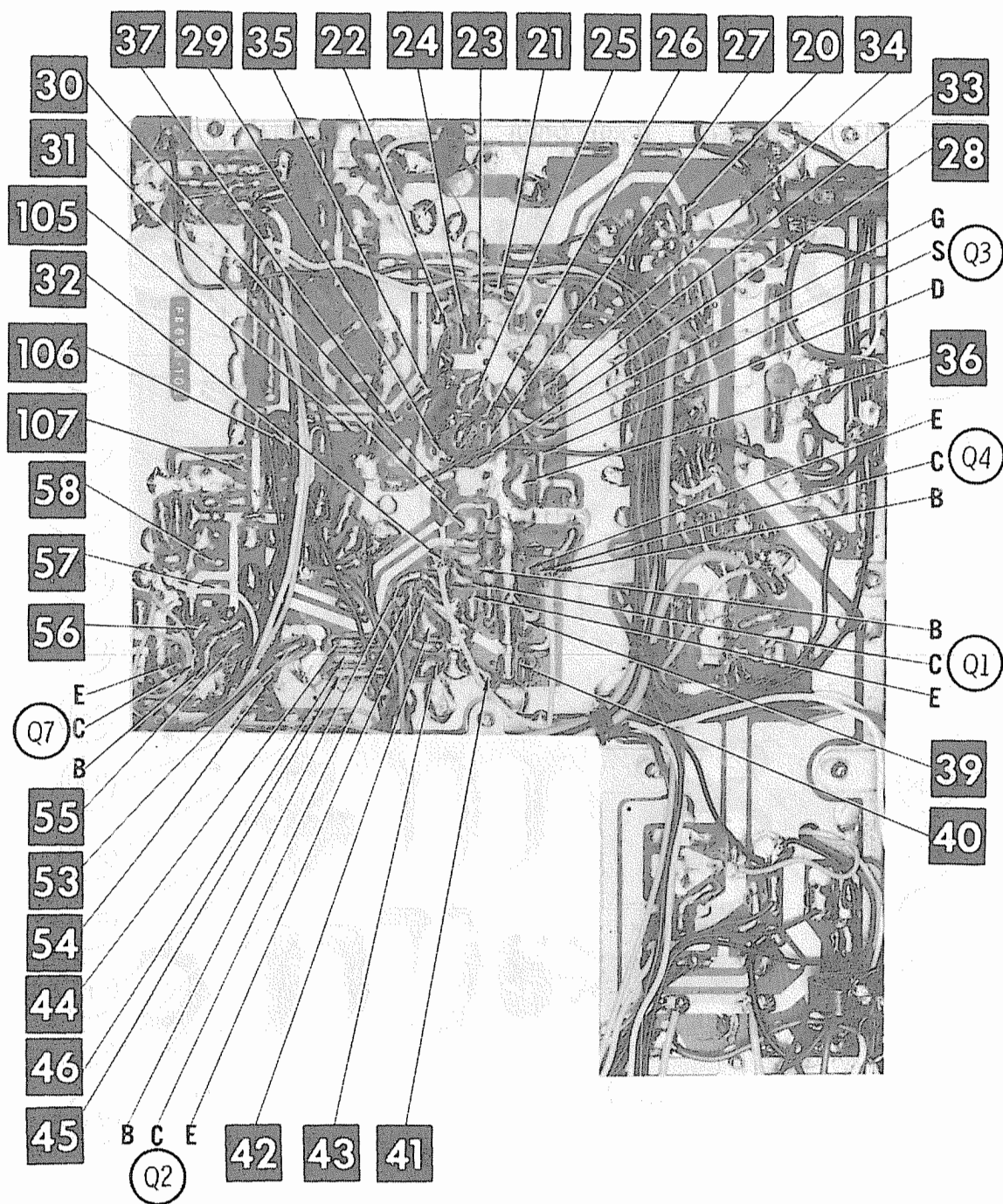
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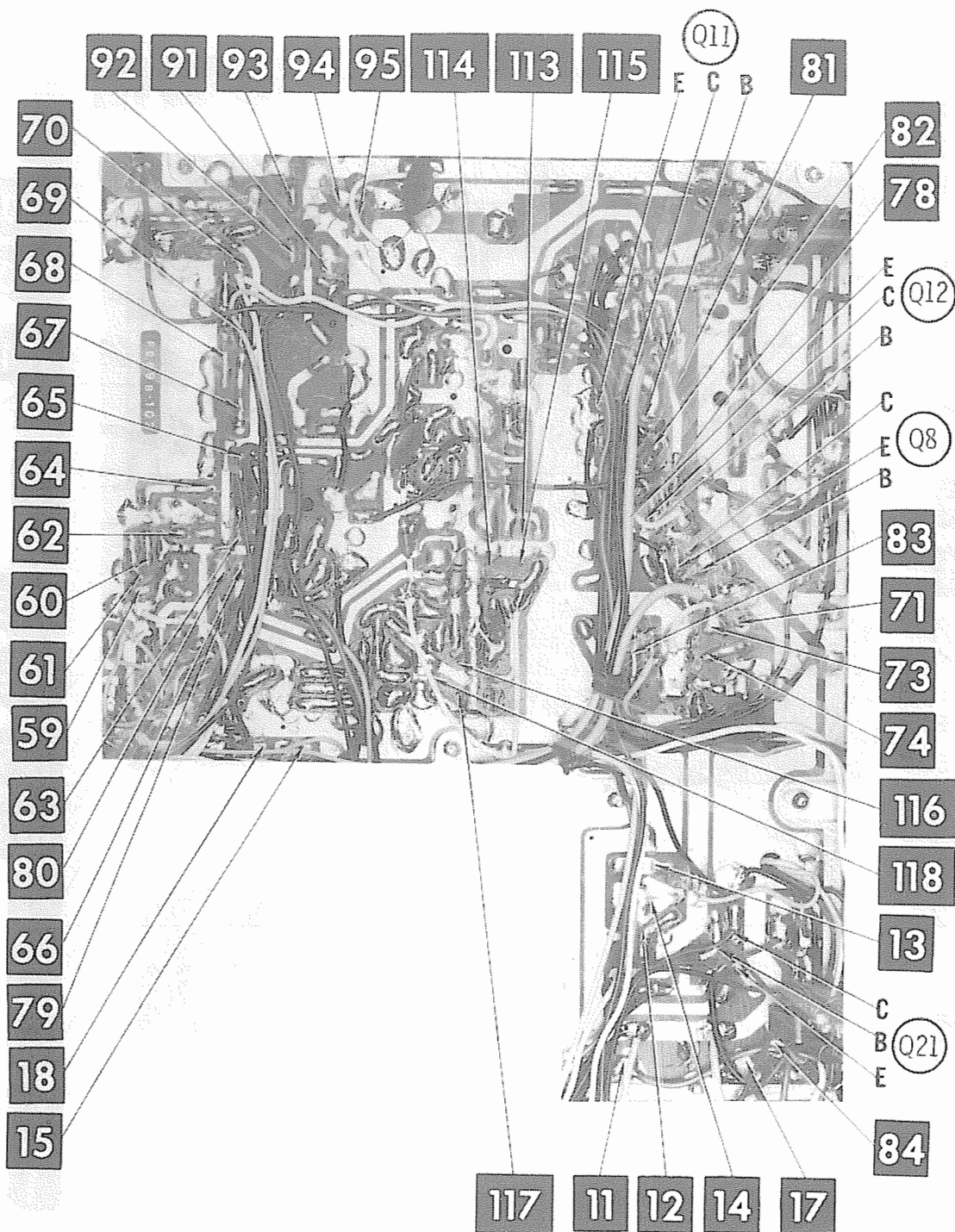


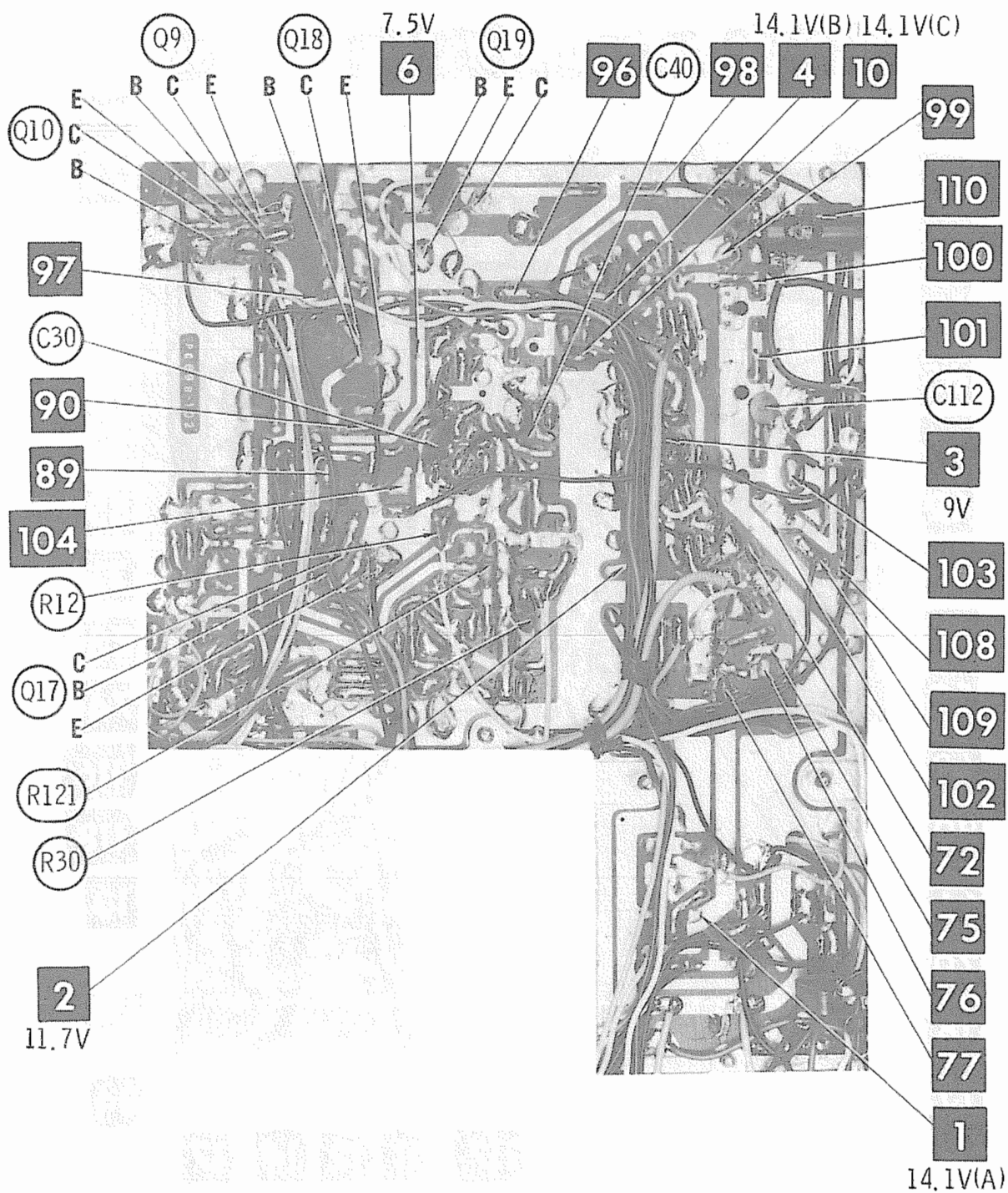


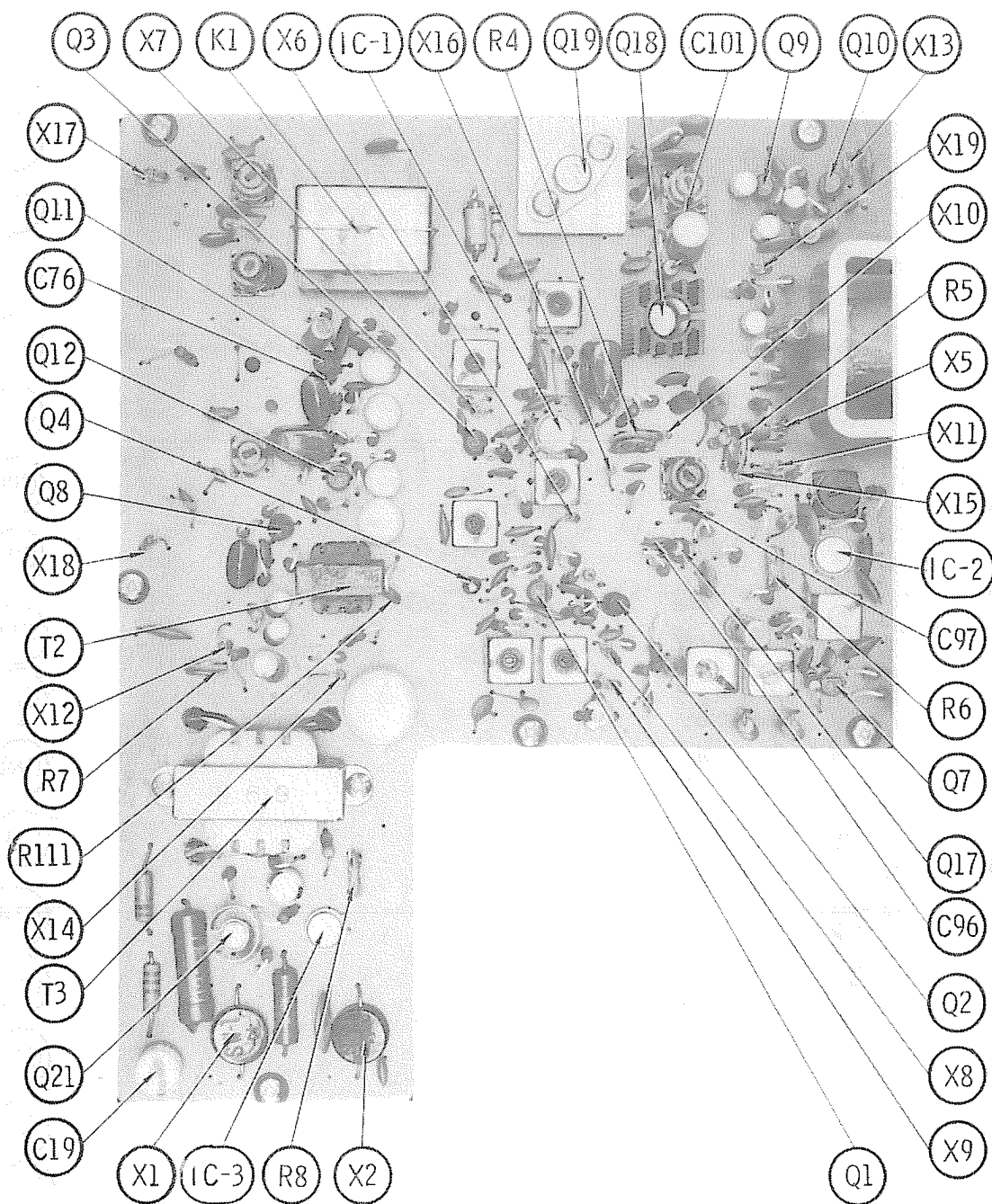


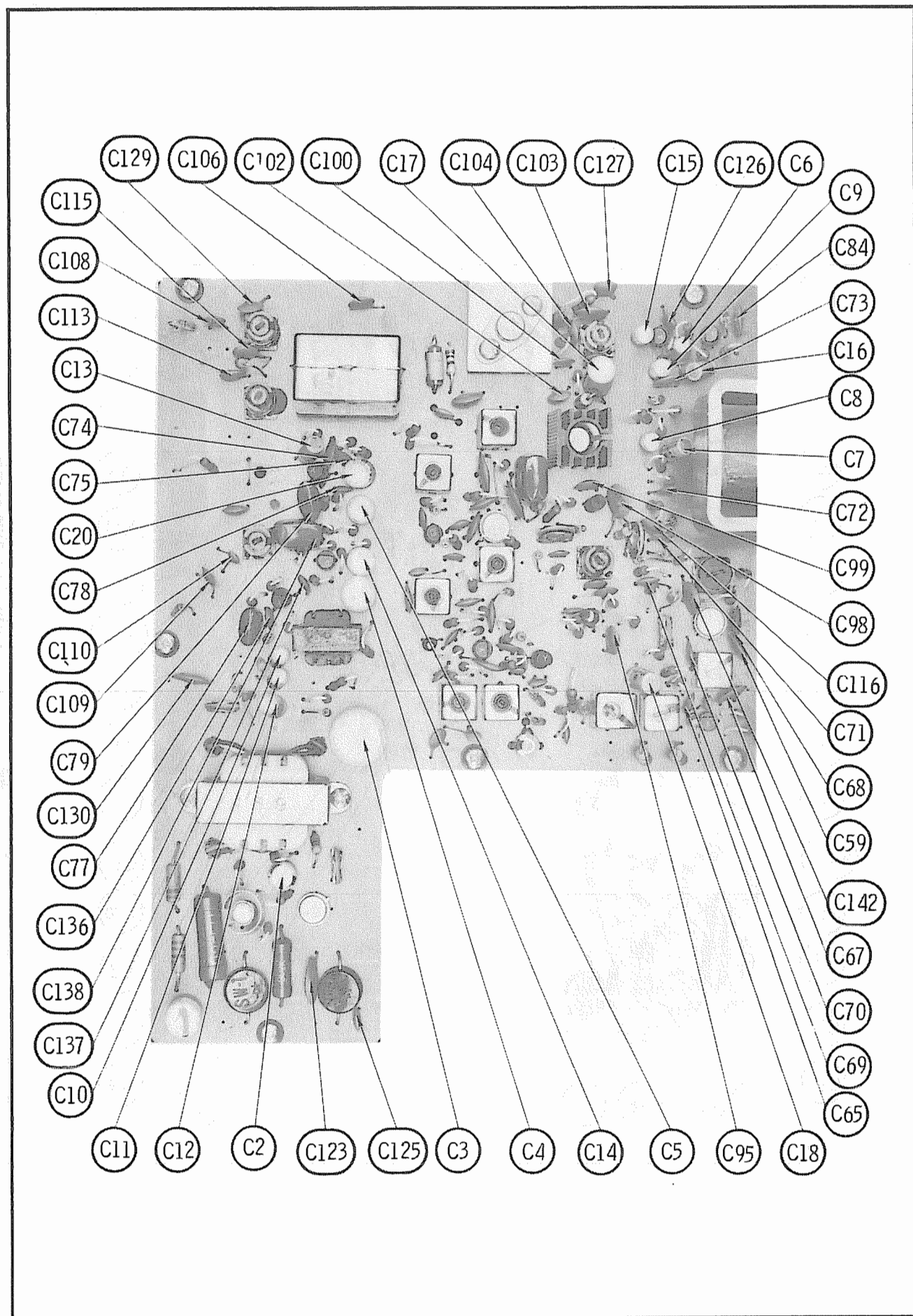


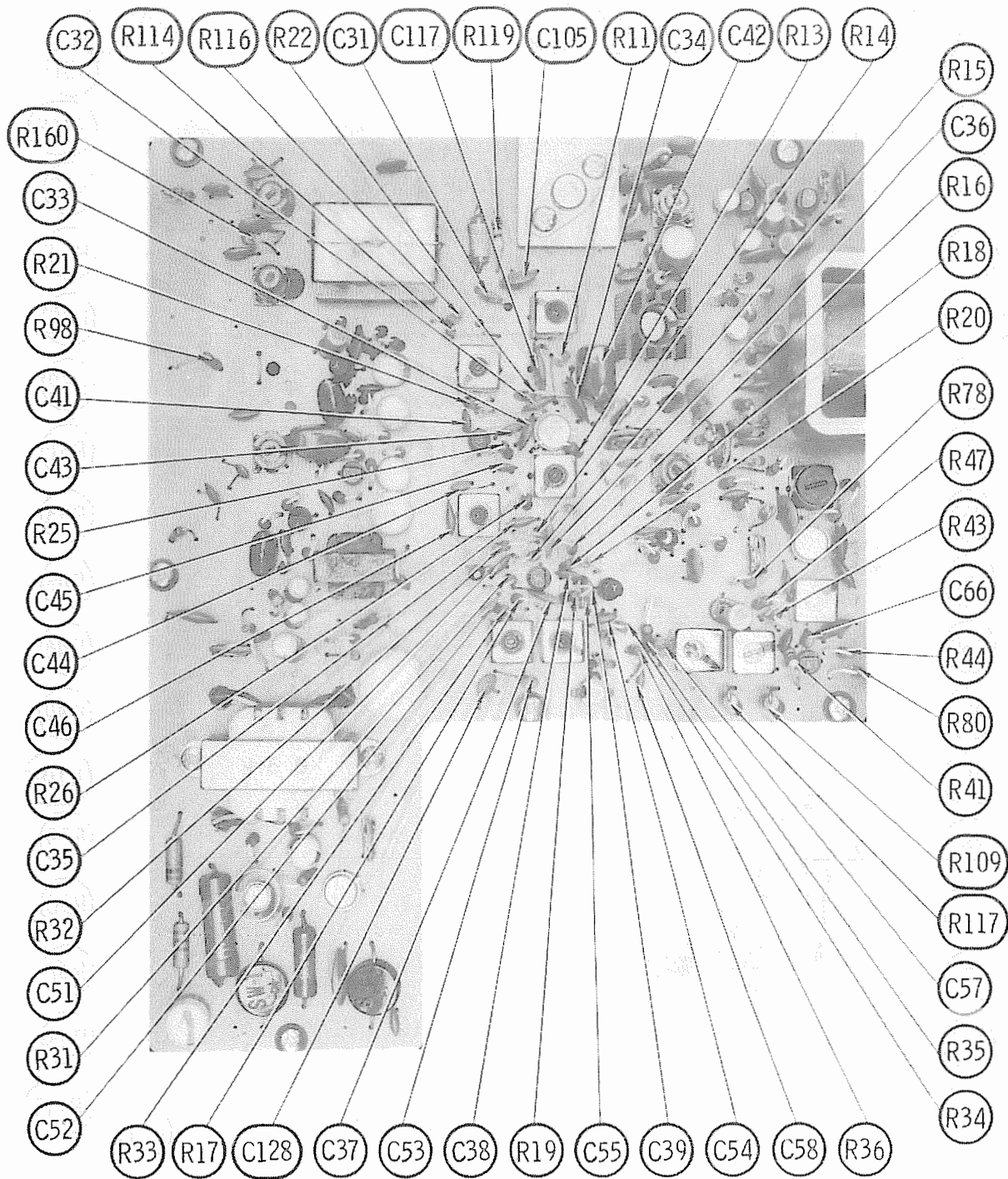


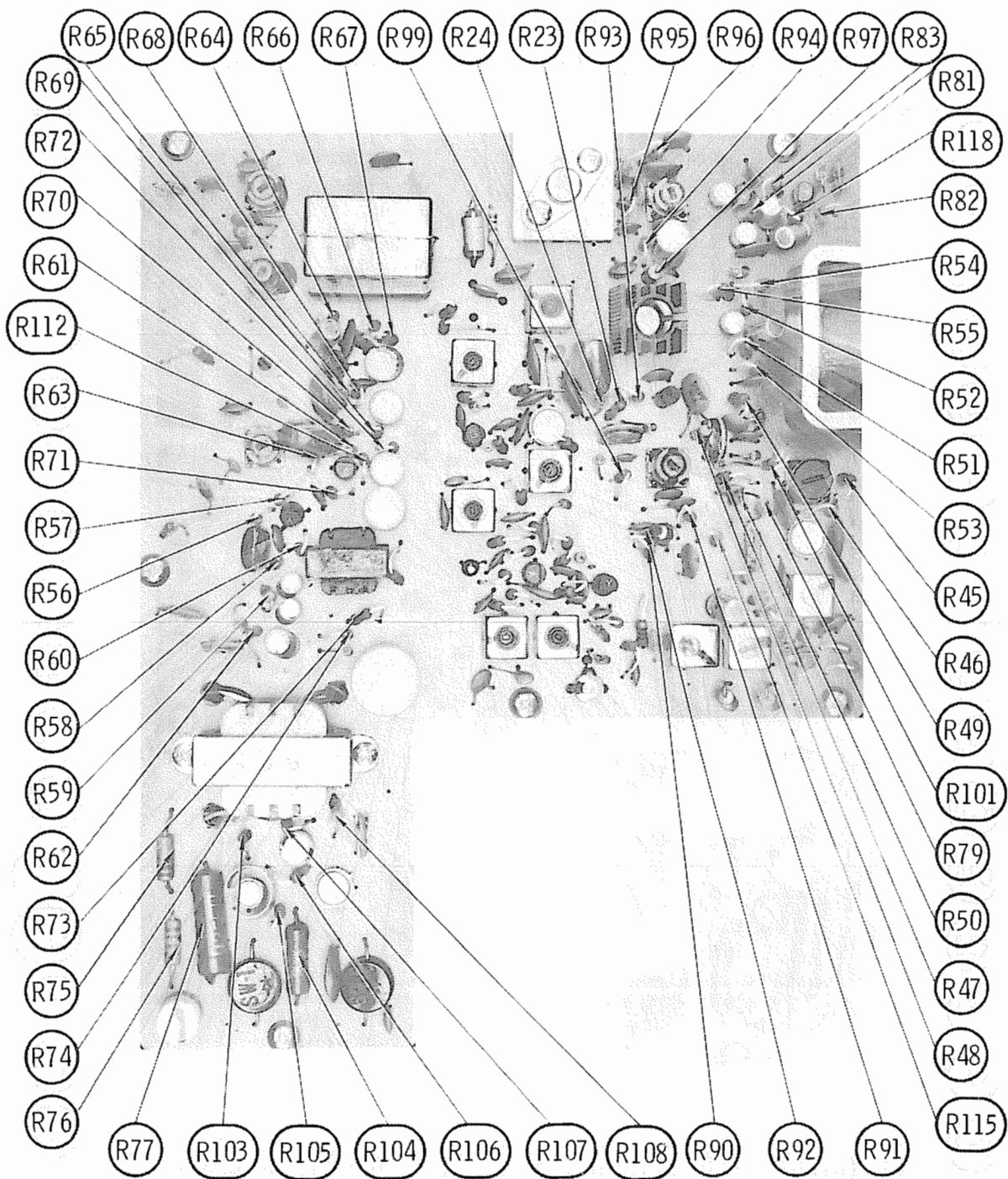












PARTS LIST AND DESCRIPTION

(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)
	8496 3-Conductor, 1 Shielded, for Press-to-Talk (Vinyl)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 In.)

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q1	2SC372(Y)	Pulse Amp		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q2	2SC372(Y)	Pulse Amp		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q3	2SK19(GR)	RF Amp		GE-FET-1	TR-FE-100	HEP802		ECG 132
Q4	2SC536(F)	1st Mixer		GE-20	TR-24	HEP56	SK3020	ECG 123A
Q5	2SC372(O)	Synthesizer		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q6	2SC372(O)	Receive Oscillator		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q7	2SC372(Y)	1st IF Amp		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q8	2SC372(Y)	Mic Amp		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q9	2SC372(Y)	Squelch Amp		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q10	2SC372(Y)	Squelch		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q11	2SC372(Y)	AF Amp		GE-10	IRTR51	HEP55	SK3018	ECG 123A
Q12	2SC375(O)	Driver		GE-18	TR-21	HEP56	SK3020	ECG 107
Q13	2SD130(BL)	Output-Modulator		GE-23	IRTR53	HEP703	SK3026	ECG 152
Q14	2SD130(BL)	Output-Modulator		GE-23	IRTR53	HEP703	SK3026	ECG 152
Q15	2SC372(O)	XMTR. Oscillator		GE-17	IRTR51	HEP55	SK3018	ECG 123A
Q16	2SC372(O)	XMTR. Mixer		GE-17	IRTR51	HEP55	SK3046	ECG 123A
Q17	2SC478(O)	Buffer		GE-17	TR-22	HEP50	SK3046	ECG 123A
Q18	2SC696(F)	Driver				HEP713	SK3047	ECG 128
Q19	2SC799	Final Amp				HEP53001	SK3048	
Q20	2SB407	Voltage Regulator		GE-3	TR-01	HEP230	SK3009	ECG 104
Q21	2SD30	Regulator Control		GE-8	TR-08	HEP641	SK3011	ECG 103A

PEARCE-SIMPSON MODEL BEARCAT 23

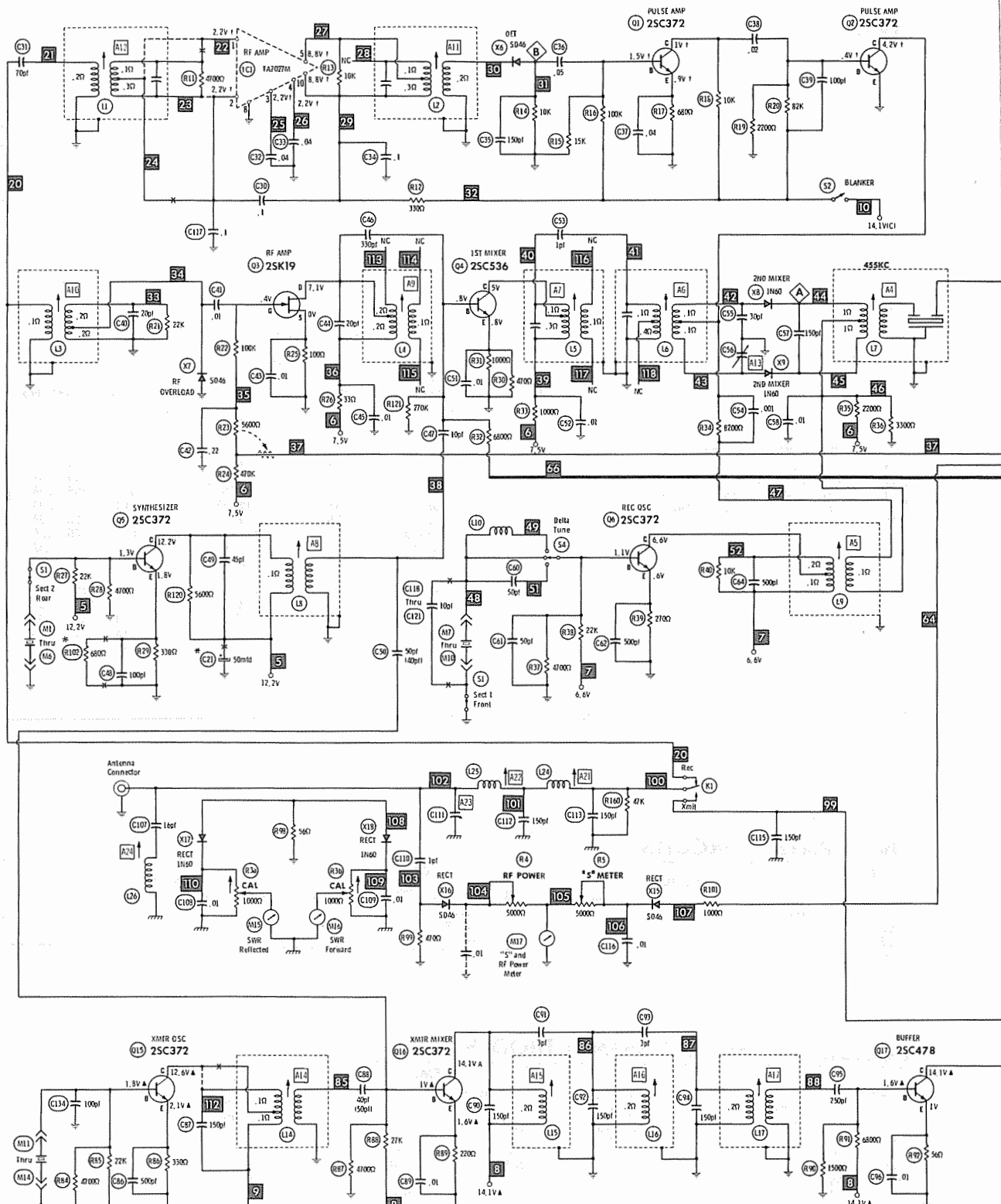
INTEGRATED CIRCUITS

ITEM No.	FUNCTION	MFGR. PART No.	REMARKS
IC1	RF Amp	TA7027M	
IC2	2nd IF Amp	TA7045M	
IC3	Error Amp	LA5100	

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT DATA				NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.	
X1	SW-1-01		3F20D	SK3051	ECG 156	Zener
X2	SW-1-01		3F200	SK3051	ECG 156	
X5	1N707A				ECG 138	
X6	SD-46	1N34AS	1N34A	1N34A	ECG 109	
X7	SD-46	1N34AS	1N34A	1N34A	ECG 109	(6) Matched pair.
X8	1N60	1N60	1N60	1N60		
X9	1N60	1N60	1N60	1N60	ECG 110 (6)	
X10	SD-46	1N34AS	1N34A	1N34A	ECG 109	
X11	SD-46	1N34AS	1N34A	1N34A	ECG 109	
X12	SD-46	1N34AS	1N34A	1N34A	ECG 109	
X13	SD-46	1N34AS	1N34A	1N34A	ECG 109	
X14	M8513R					
X15	SD-46	1N34AS	1N34A	1N34A	ECG 109	
X16	SD-46	1N34AS	1N34A	1N34A	ECG 109	
X17	1N60	1N60	1N60	1N60	ECG 109	
X18	1N60	1N60	1N60	1N60	ECG 109	
X19	SD-46	1N34AS	1N34A	1N34A	ECG 109	

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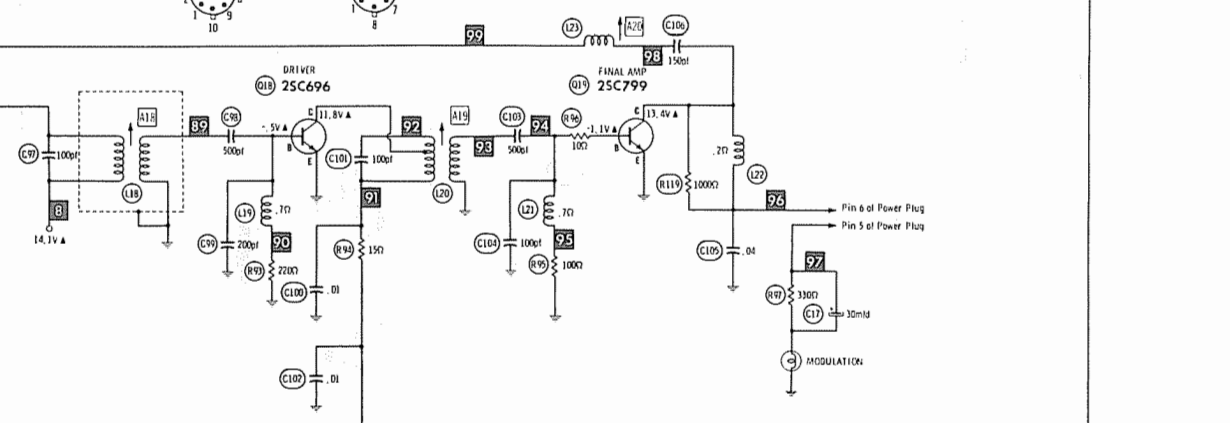
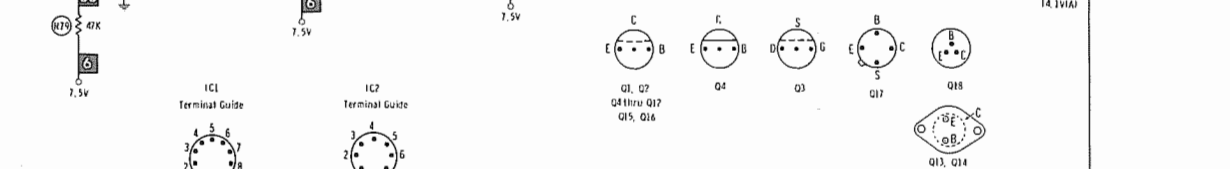
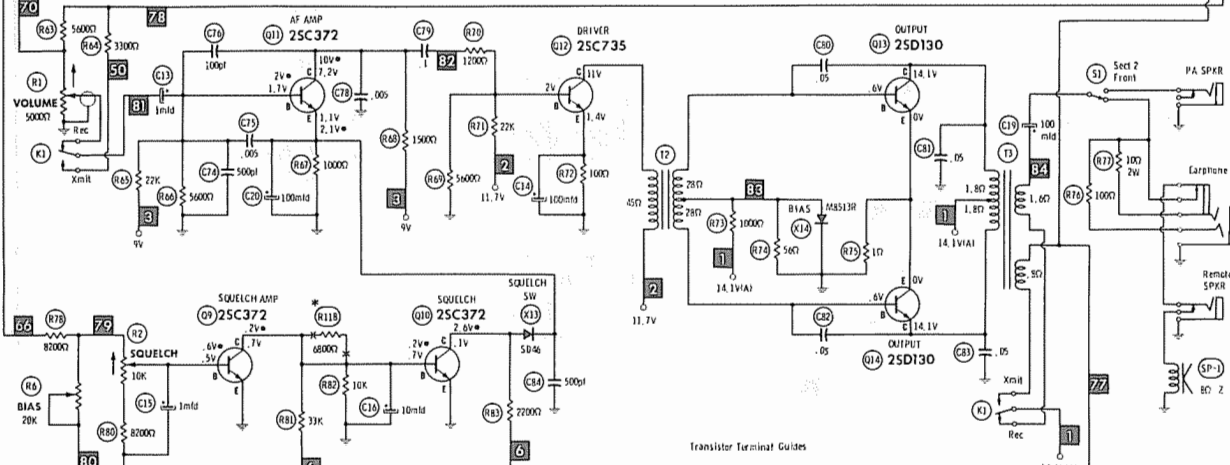
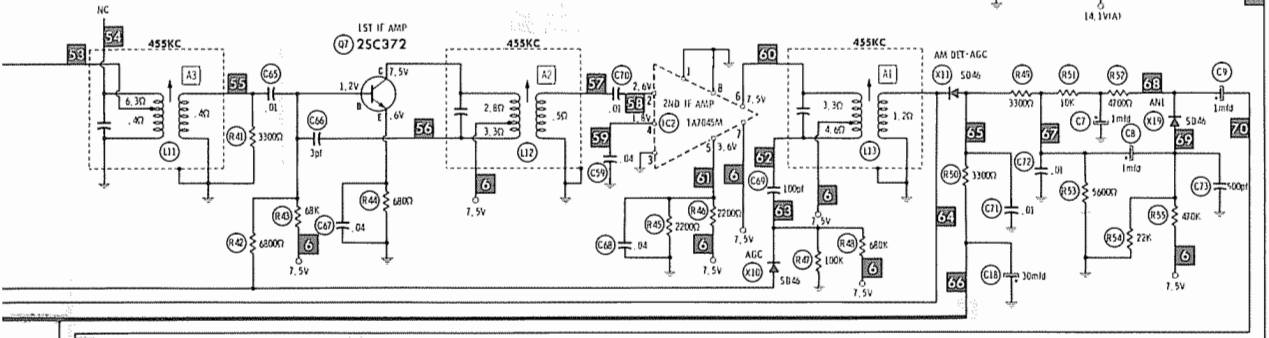
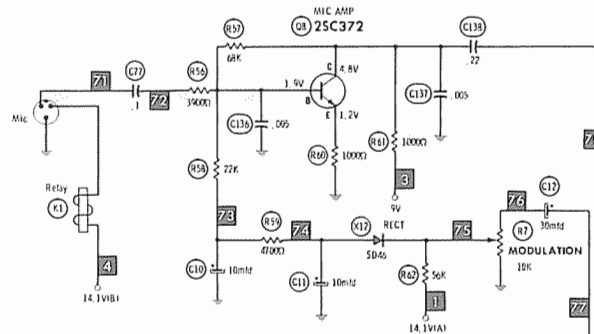
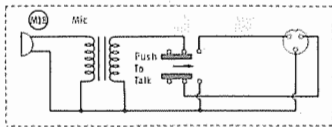
Values shown in () are used in some applications.
Resistors are 1/2W or less, 10% or 20% unless otherwise indicated.
Supply voltage maintained at rated value for measurements.
Voltage and resistance measured with VOM or equivalent meter.
No signal applied and controls adjusted for normal operation.
Controls viewed from actuator end. Arrow indicates direction of control advance.
Transistor resistances vary widely. No resistance measurements taken.

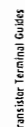
A. PHOTOFACT STANDARD NOTATION SCHEMATIC
with **CircuitTrace**

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rfm Denotes chassis.
+ Denotes ground.
- Indicates connection used in some versions.
* Indicates connection not used in some versions.
○ Omitted in some versions.
○ See parts list.
Measurements taken with switching in position shown unless otherwise indicated.
▲ Measured in "Transmit" position.
NC No connection.
• Squelched.
† Measured with noise blanker on.

Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	M1, M2, M3	7	M2, M3, M4	13	M4, M5, M6	19	M5, M6, M7
2	M1, M2, M3	8	M2, M3, M4	14	M4, M5, M6	20	M5, M6, M7
3	M1, M2, M3	9	M2, M3, M4	15	M4, M5, M6	21	M5, M6, M7
4	M1, M2, M3	10	M2, M3, M4	16	M4, M5, M6	22	M5, M6, M7
5	M2, M3, M4	11	M2, M3, M4	17	M4, M5, M6	23	M5, M6, M7
6	M2, M3, M4	12	M2, M3, M4	18	M4, M5, M6		





A PHOTOFACT STANDARD NOTATION SCHEMATIC

with **CIRCUITPACE**
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PEARCE-SIMPSON MODEL BEARCAT 23

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	2000 25V		AFH2000-25	EA30-1000 & EA30-1000	AA0080A	XC1-28.5	FP060.2	TVL-1242
C2	33 10V		MCD-110	EP15-25	PC30-35	MT1-13.5	MTV30CB25	TE-1132.1
C3	1000 16V		PRS1230	EA15-1000	WBR1000-16	QT1-32	TC1501A	TL-1166.5
C4	100 16V		MCD-180	EP15-100	PC100-16	MT1-19	MTV100CF15	TE-1162
C5	50 10V		MCD-130	EP15-50	PC50-16	MT1-16	MTV50CB15	TE-1133
C6	10 10V		MCD-70	EP15-10	PC10-50	MT1-5	MTV10CB50	TE-1128
C7	1 16V		MCD-10		PC1-100	MT1-1	MTV1CB50	TE-1148
C8	1 16V		MCD-10		PC1-100	MT1-1	MTV1CB50	TE-1148
C9	1 16V		MCD-10		PC1-100	MT1-1	MTV1CB50	TE-1148
C10	10 6.3V		MCD-70	EP6-10	PC10-50	MT1-5	MTV10CB50	TE-1087
C11	10 6.3V		MCD-70	EP6-10	PC10-50	MT1-5	MTV10CB50	TE-1087
C12	30 10V		MCD-110	EP15-25	PC30-35	MT1-13.5	MTV30CB25	TE-1132.1
C13	1 15V		MCD-10		PC1-100	MT1-1	MTV1CB50	TE-1148
C14	100 6.3V		MCD-170	EP6-100	PC100-16	MT1-21	MTV100CB6	TE-1102
C15	1 16V		MCD-10		PC1-100	MT1-1	MTV1CB50	TE-1148
C16	10 6.3V		MCD-70	EP6-10	PC10-50	MT1-5	MTV10CB50	TE-1087
C17	30 16V		MCD-110	EP15-25	PC30-35	MT1-13.5	MTV30CB25	TE-1132.1
C18	30 6.3V		MCD-110	EP6-25	PC30-35	MT1-13	MTV30CB25	TE-1132.1
C19	100 16V		MCD-180	EP15-100	PC100-16	MT1-19	MTV100CF15	TE-1162
C20	100 6.3V		MCD-170	EP6-100	PC100-16	MT1-21	MTV100CB6	TE-1102
C21	50 15V		MCD-130	EP15-50	PC50-16	MT1-16	MTV50CB15	TE-1133

PEARCE-SIMPSON MODEL BEARCAT 23

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C30	.1		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C31	.70		GPD X5F680K	DD-680	NP068	CCD-680	GP468	10TS-Q68
C32	.04			DD-403			GP140	
C33	.04			DD-403			GP140	
C34	.1		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C35	.150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C36	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C37	.04			DD-403			GP140	
C38	.02		GPD Z5U203P	DD-203		CCD-203	GP120	10TS-S20
C39	100		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C40	20		NPO-DI 20	DTZ-20	NP020	CCT0-200	CN0420	10TCC-Q20
C41	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C42	.22		DBE6P22		DPMS4P22	4DP-5-224	PVC4022	4PS-P22
C43	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C44	20		NPO-DI 20	DTZ-20	NP020	CCT0-200	CN0420	10TCC-Q20
C45	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C46	330		GPD X5F331K	DD-331	GP330	CCD-331	GP333	10TS-T33
C47	10		NPO-DI 10	DTZ-10	NP010	CCT0-100	CN0410	10TCC-Q10
C48	100		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C49	45		NPO-DI 50	DTZ-50	NP050	CCT0-510	CN0450	10TCC-Q50
C50	40		NPO-DI 50	DTZ-50	NP050	CCT0-510	CN0450	10TCC-Q50
C51	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C52	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C53	1		NPO-DI 1.0	TCZ-1			CN0510	10TCC-V10
C54	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-O10
C55	30			TCZ-30		CCT0-300		10TCC-Q30
C56								
C57	150 25V			CPR-150J	CD15F151J500	DM-15-151	SX315	MS-315
C58	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C59	.04			DD-403			GP140	
C60	50		NPO-DI 50	DTZ-50	NP050	CCT0-510	CN0450	10TCC-Q50
C61	50		NPO-DI 50	DTZ-50	NP050	CCT0-510	CN0450	10TCC-Q50
C62	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C64	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C65	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C66	3		NPO-DI 3.0					10TCC-V30
C67	.04			DD-403			GP140	
C68	.04			DD-403			GP140	
C69	100		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C70	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C71	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C72	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C73	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C74	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C75	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C76	100 25V		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C77	.1		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C78	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C79	.1		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL- DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C80	.05		DBE6S5		DPMS6S5	6DP-3-503	PVC615	6PS-S50
C81	.05		DBE6S5		DPMS6S5	6DP-3-503	PVC615	6PS-S50
C82	.05		DBE6S5		DPMS6S5	6DP-3-503	PVC615	6PS-S50
C83	.05		DBE6S5		DPMS6S5	6DP-3-503	PVC615	6PS-S50
C84	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C86	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C87	150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C88	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C89	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C90	150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C91	3		NPO-DI 3.0					10TCC-V30
C92	150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C93	3		NPO-DI 3.0					10TCC-V30
C94	150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C95	250		GPD X5F251K	DD-251	GP250	CCD-251	GP325	10TS-T25
C96	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C97	100		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C98	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C99	200		GPD X5F201K	DD-201	GP200	CCD-201	GP320	10TS-T20
C100	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C101	100		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C102	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C103	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C104	100		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C105	.04			DD-403			GP140	
C106	150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C107	16		NPO-DI 15	DTZ-15	NP015	CCT0-150	CN0415	10TCC-Q15
C108	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C109	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C110	1		NPO-DI 1.0	TCZ-1			CN0510	10TCC-V10
C111								
C112	150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C113	150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C115	150		GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C116	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C117	.1		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C118	10		NPO-DI 10	DTZ-10	NP010	CCT0-100	CN0410	10TCC-Q10
C119	10		NPO-DI 10	DTZ-10	NP010	CCT0-100	CN0410	10TCC-Q10
C120	10		NPO-DI 10	DTZ-10	NP010	CCT0-100	CN0410	10TCC-Q10
C121	10		NPO-DI 10	DTZ-10	NP010	CCT0-100	CN0410	10TCC-Q10
C122	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C123	.1		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C124	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C125	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C126	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C127	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C128	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C129	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C130	.1		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C131	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C132	.04			DD-403			GP140	
C133	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C134	100		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C135	.1		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C136	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C137	.005		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C138	.22		DBE6P22		DPMS4P22	4DP-5-224	PVC4022	4PS-P22
C140	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C141	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C142	.04			DD-403			GP140	
C143	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-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.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	5000					
R2	Squelch	10K					
R3a	SWR-Calibration	1000					
b	SWR-Calibration	1000					
R4	RF Power Meter	5000					
	Adjust			TSV-5K (1) or		X201R502B (1)	MTC53L1 (1)
R5	"S" Meter Adjust	5000		T-5000 (1)		X201R502B (1)	MTC53L1 (1)
				TSV-5K (1) or			
				T-5000 (1)			
R6	Bias	20K		T-20K (1) or		X201R253B (1)	MTC24L7 (1)
				TSV-25K (1)			
R7	Modulation Adjust	10K		TSV-10K or		X201R103B	MTC14L7
				T-10K			
R8	Bias Adjust	5000		TSV-5K (1) or		X201R502B (1)	MTC53L1 (1)
				T-5000 (1)			

(1) 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	
		WORKMAN PART No.	MFGR. PART No.
R75	1 1/2W	WS 1.0	

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R77	10 2W	WS 10.	

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Noise Blanker Input	TKXC-14299A (K-14299A)			
L2	Noise Blanker Output	TKXC-14299A (K-14299A)			
L3	Receive Antenna	KXN-13637BC (K-13637BC)			
L4	Receive RF	KXN-13637BC (K-13637BC)			
L5	Input IF (1st Mixer)				
L6	Output IF (1st Mixer)	TKAC-142942PX (K-142942PX)			
L7	Input IF (2nd Mixer)	MFH-52T			
L8	Synthesizer Oscillator	KXN-13636BM (K-13636BM)			
L9	Receiver Oscillator	KXN-6710A			
L10	Delta Tune	CH-103			
L11	Interstage IF	YXE-10857A1A	16-9026	8517	
L12	Interstage IF	YMC-19088AC (Y-19088AC)	16-9027	2067	
L13	Output IF	PMC6051AC	16-9028	2068	
L14	XMTR. Oscillator	KXN-6710A			
L15	XMTR. Mixer Output	KXN-13638HM (K-13638HM)			
L16	XMTR. Interstage	KXN-13638HM (K-13638HM)			
L17	Buffer Input	KXN-13638HM (K-13638HM)			
L18	Buffer Output	KXN-13636BM (K-13636BM)			
L19	RF Choke	NY10-B33 (B-33)			
L20	Driver	2R2K NY-B34 (B-34)			
L21	RF Choke	2R2K			
L22	RF Choke	NP401			
L23	Output	NY10-B35 (B-35)			
L24	Antenna	NY10-B32 (B-32)			
L25	Antenna	NY10-B32 (B-32)			
L26	Antenna Tune				

PEARCE-SIMPSON MODEL BEARCAT 23

TRANSFORMER (Power)

ITEM No.	RATING			REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @.06BAAC	31VAC/CT @.91ADC		69B-P (UT-6913)				

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.	
T2	1	1CT		69M				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
			MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	72 CT	SEC. 1	69R				
		8					
		SEC. 2					
		.8 DC Resistance					

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" x 5" PM, 8 ohms	(121-55)		

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	1A Quick Acting			AGC 1	HKP	312001	342012	FG1-2
F2	2A Quick Acting			AGC 2	HDJ	312002	150145	FG2-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay		
M1	Crystal		37.600MC
M2	Crystal		37.650MC
M3	Crystal		37.700MC
M4	Crystal		37.750MC
M5	Crystal		37.800MC
M6	Crystal		37.850MC
M7	Crystal		10.180MC
M8	Crystal		10.170MC
M9	Crystal		10.160MC
M10	Crystal		10.140MC
M11	Crystal		10.635MC
M12	Crystal		10.625MC
M13	Crystal		10.615MC
M15	Meter		SWR Reflected
M16	Meter		SWR Forward
M17	Meter		S & RF Power
S1	Switch		Selector
S2	Switch		Blanker
S3	Switch		Power (On-Off)
S4	Switch		Delta Tune

MICROPHONE

ITEM No.	REPLACEMENT DATA			REMARKS
	MFGR. PART No.	RCA REPLACEMENT	RCA STEP UP REPLACEMENT	
M18	DM-1391	HK-107	HK113 (1), HK-101(1)	(1) For base station use.