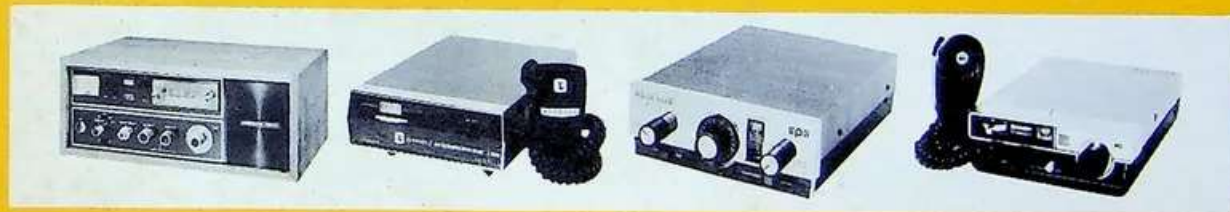


SAMS PHOTOFACT[®]

CB RADIO SERIES



CB-45
45
APRIL 1973



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



PHOTOFACT[®] with

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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 T-1000

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

L101, L102, L901, L903, L905 thru L907, L909, L913, ... GC ELECTRONICS #9440

T301 thru T304 GC ELECTRONICS #9089

L908, L910 thru L912 GC ELECTRONICS #8728

FANON MODEL T-1000

RECEIVER

Connect an AC VTVM across speaker voice coil. Set Squelch control to MINIMUM. Set Volume control to obtain a suitable reading.

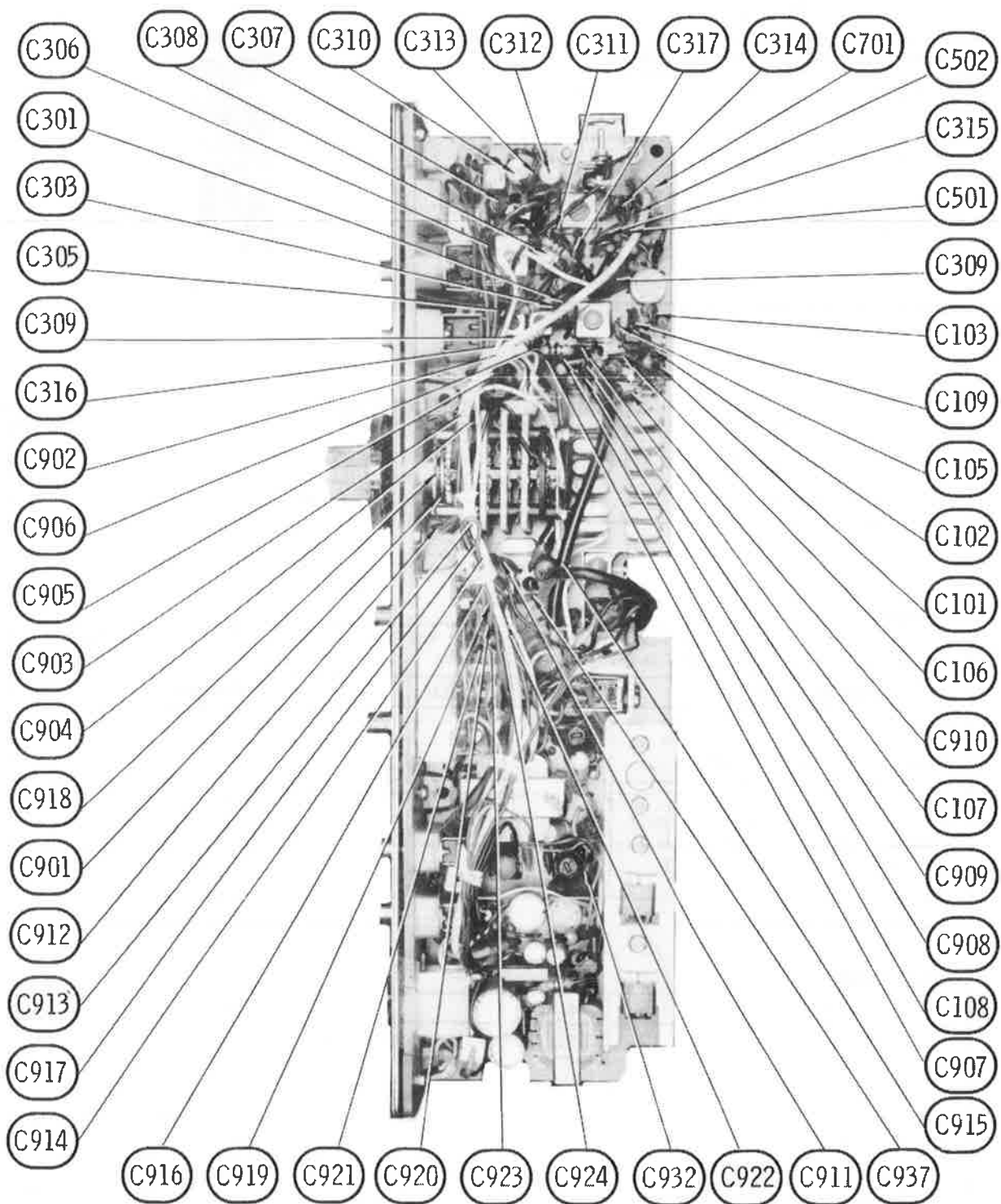
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to base of Q4 (2nd Rec. Mixer), low side to ground. Set to 455KC (Mod.).	Any	T305 thru T303	Adjust for maximum.
High side thru .01mfd to Ext. antenna connector, low side to ground. Set to 27.085MC (Mod.) (Ch. 11).	11	T302, T301, L102, L101, L901	Adjust for maximum.

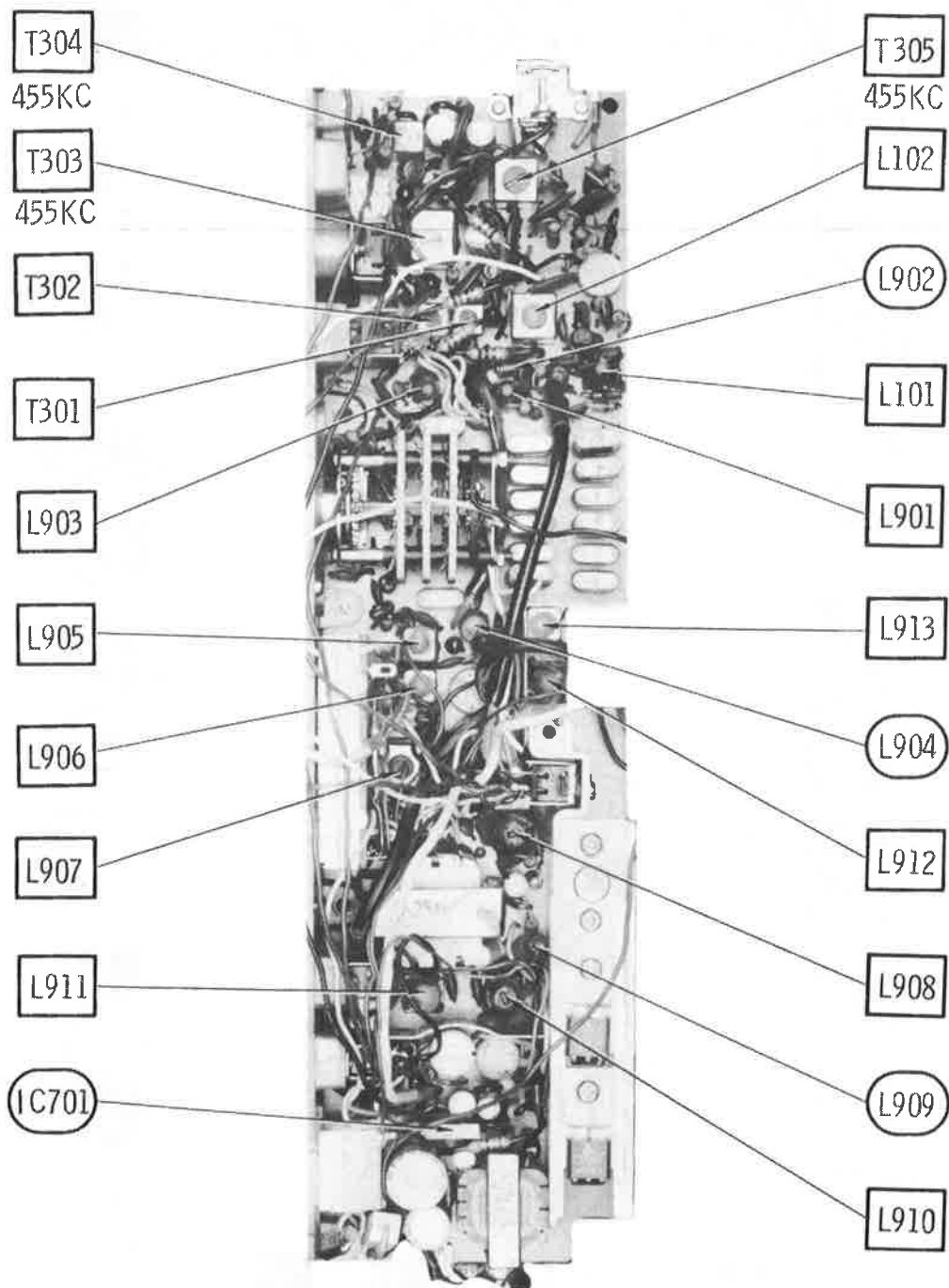
TRANSMITTER

INDICATOR	ADJUST	REMARKS
RF Wattmeter.	L905 thru L908, L910, L911	Connect wattmeter to Ext Ant jack. Key transmitter and adjust for maximum.
Field Strength meter.	L912	Fully extend the built-in telescopic antenna. Key transmitter and adjust L912 for maximum indication.
Television (Ch. 2)	L913	Key transmitter and adjust for MINIMUM interference.

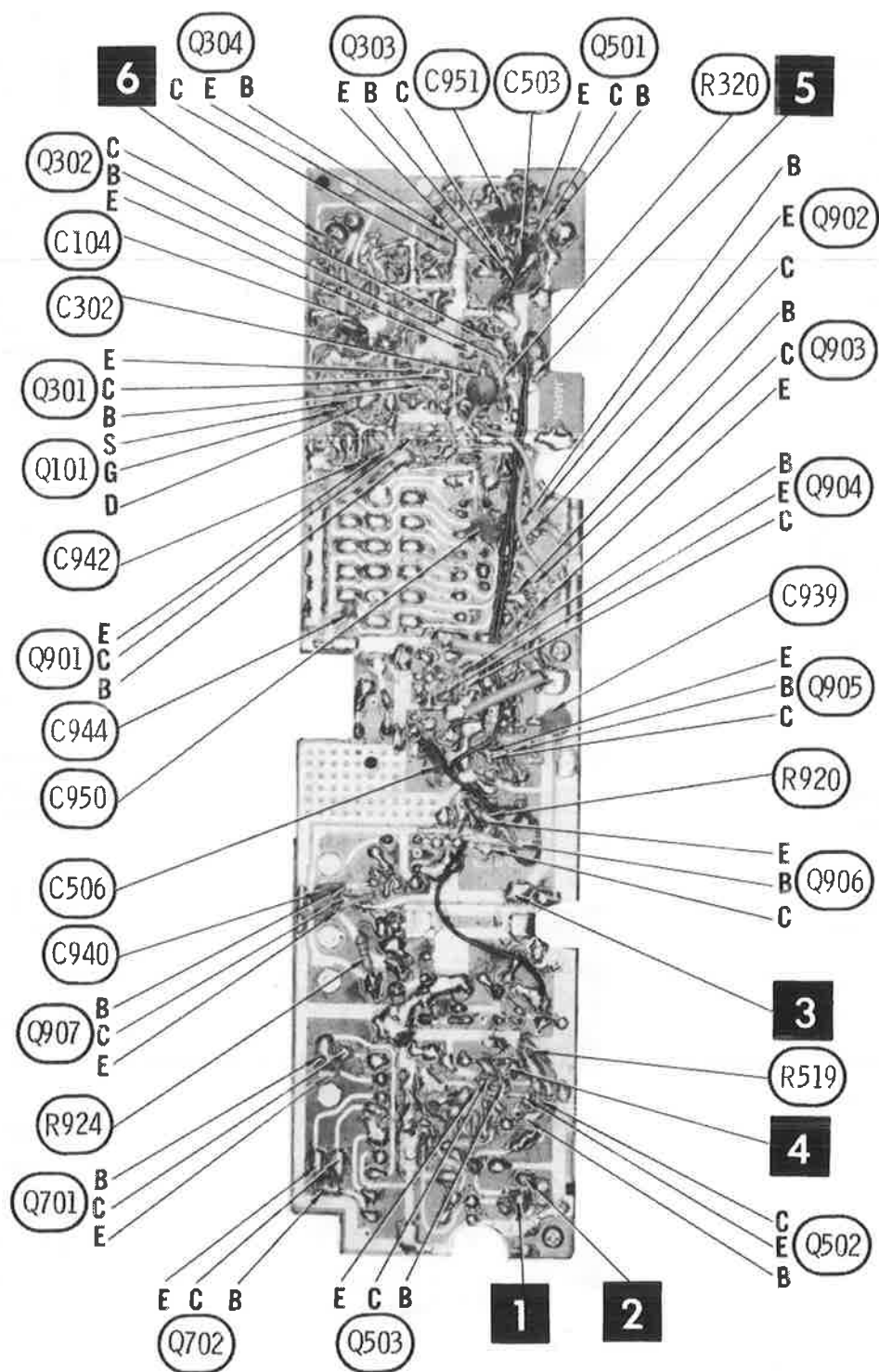
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

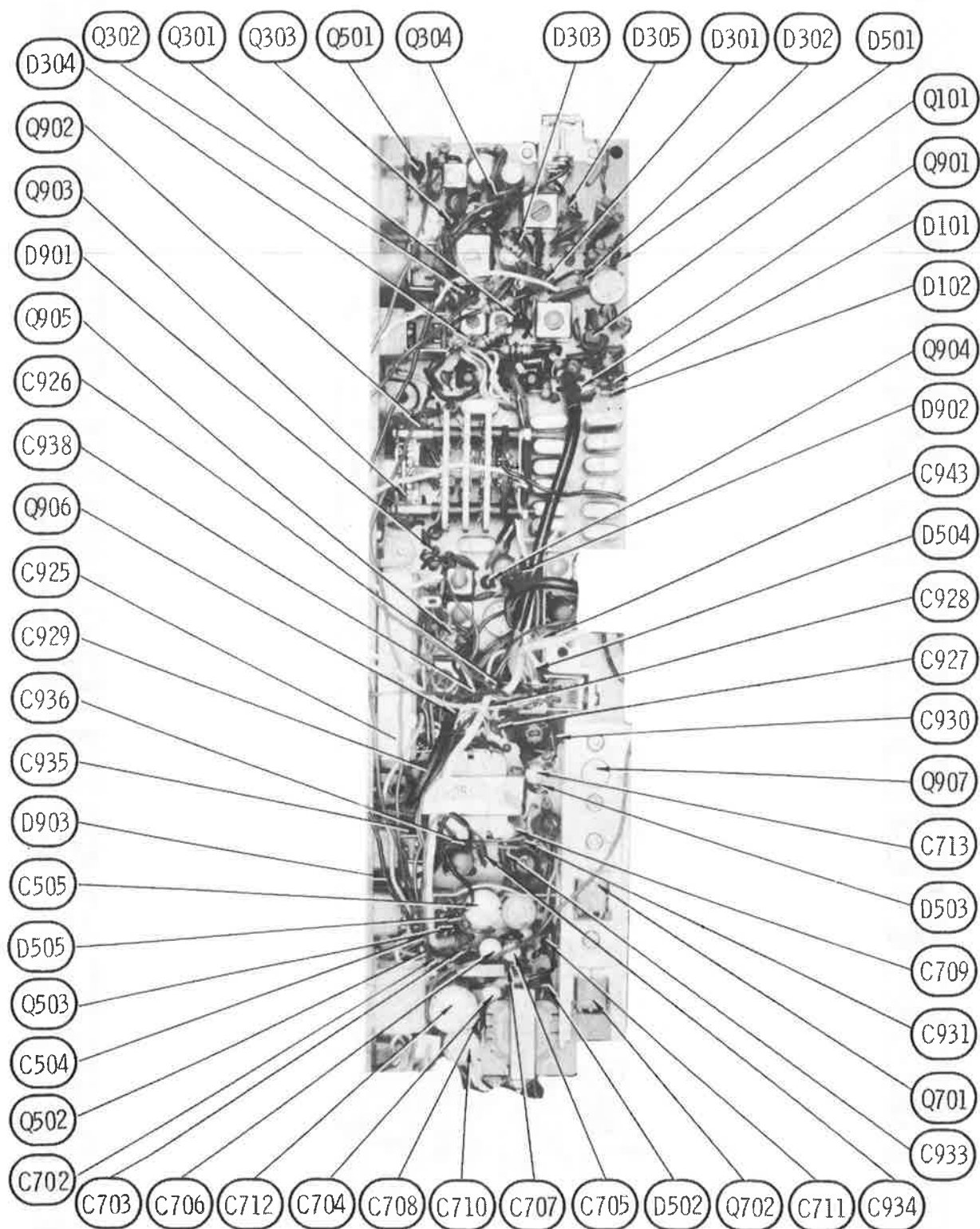
© 1973 Howard W. Sams & Co., Inc. Printed in U. S. of America 3CX084



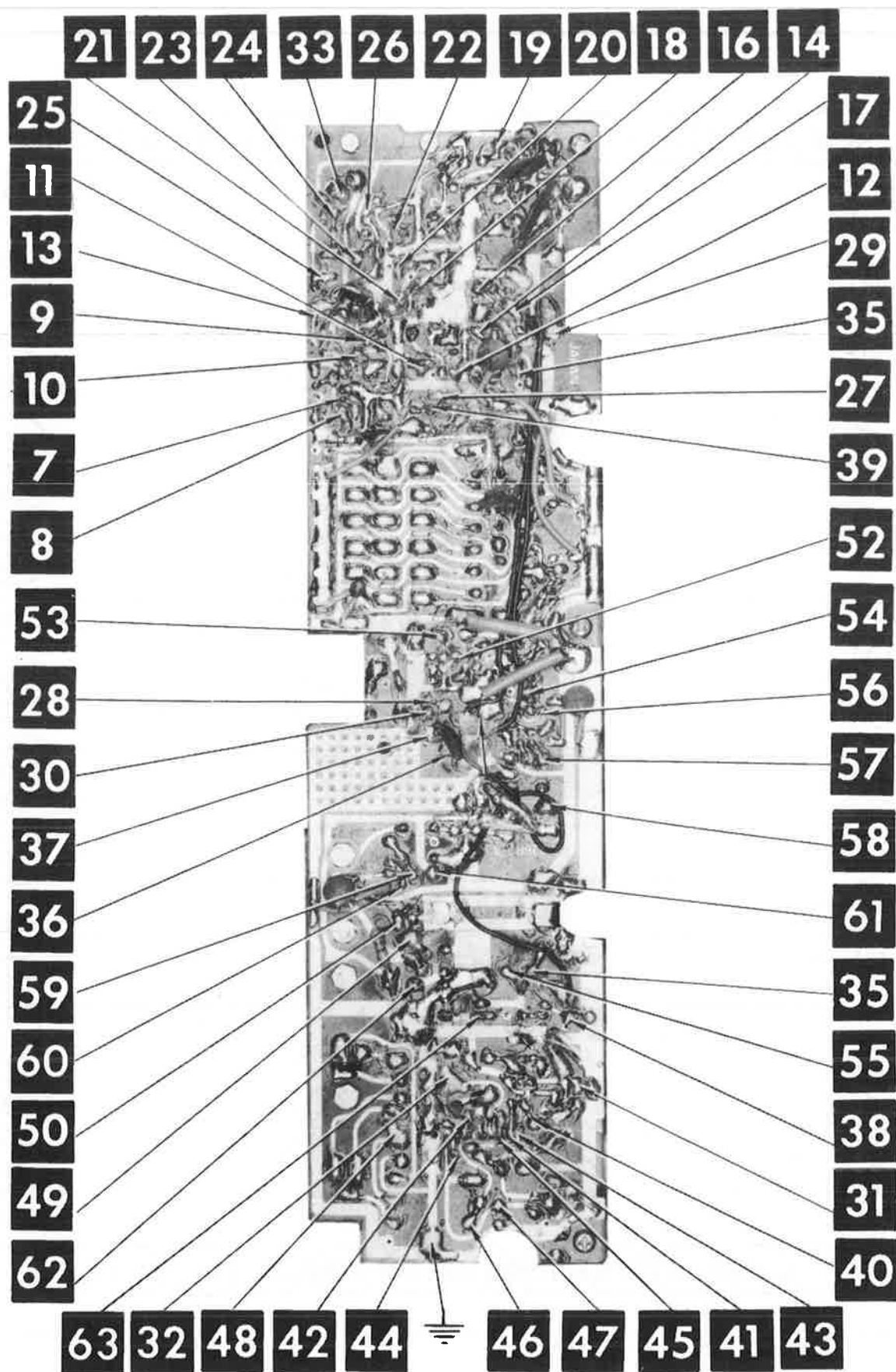


FANON MODEL T-1000

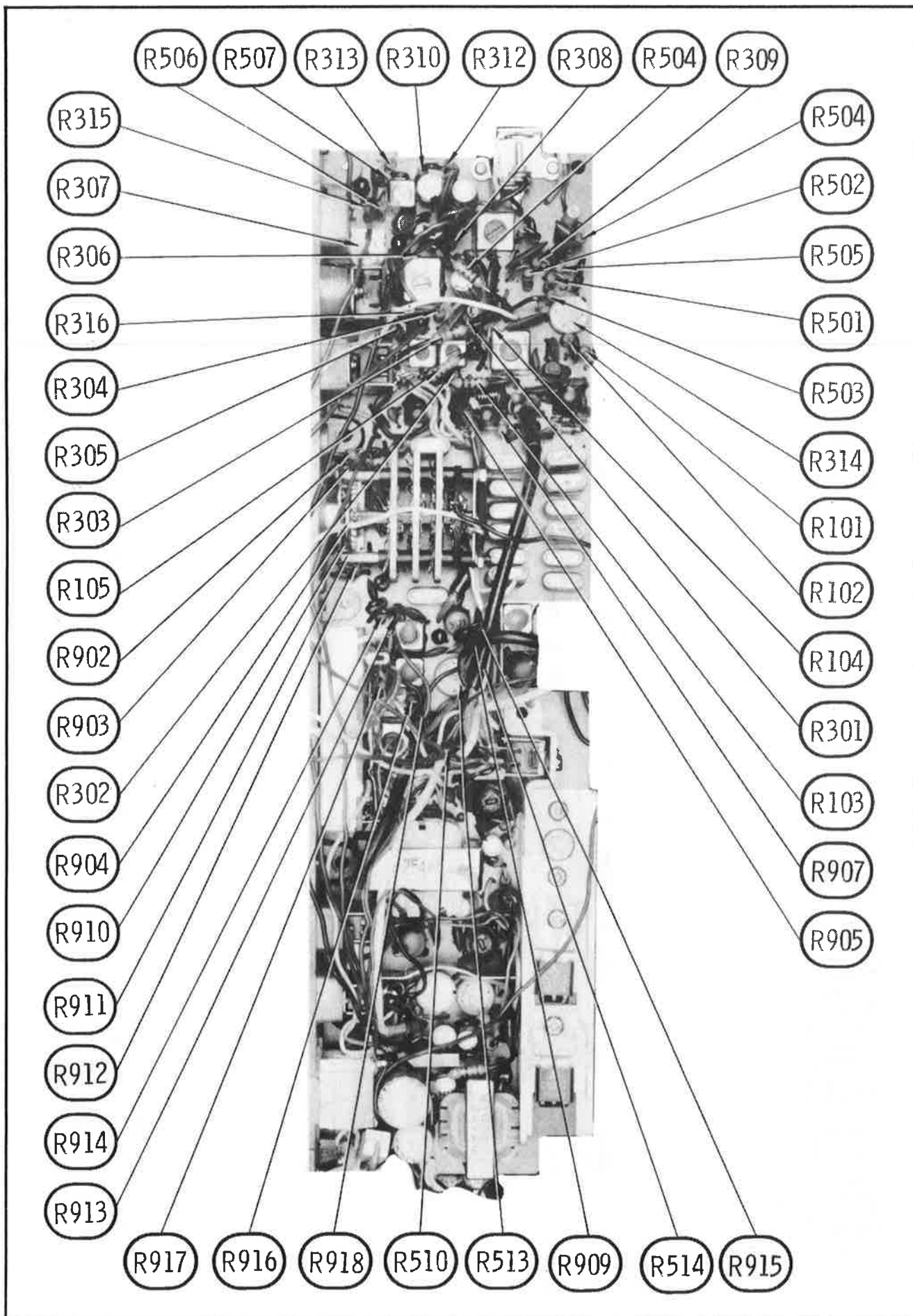




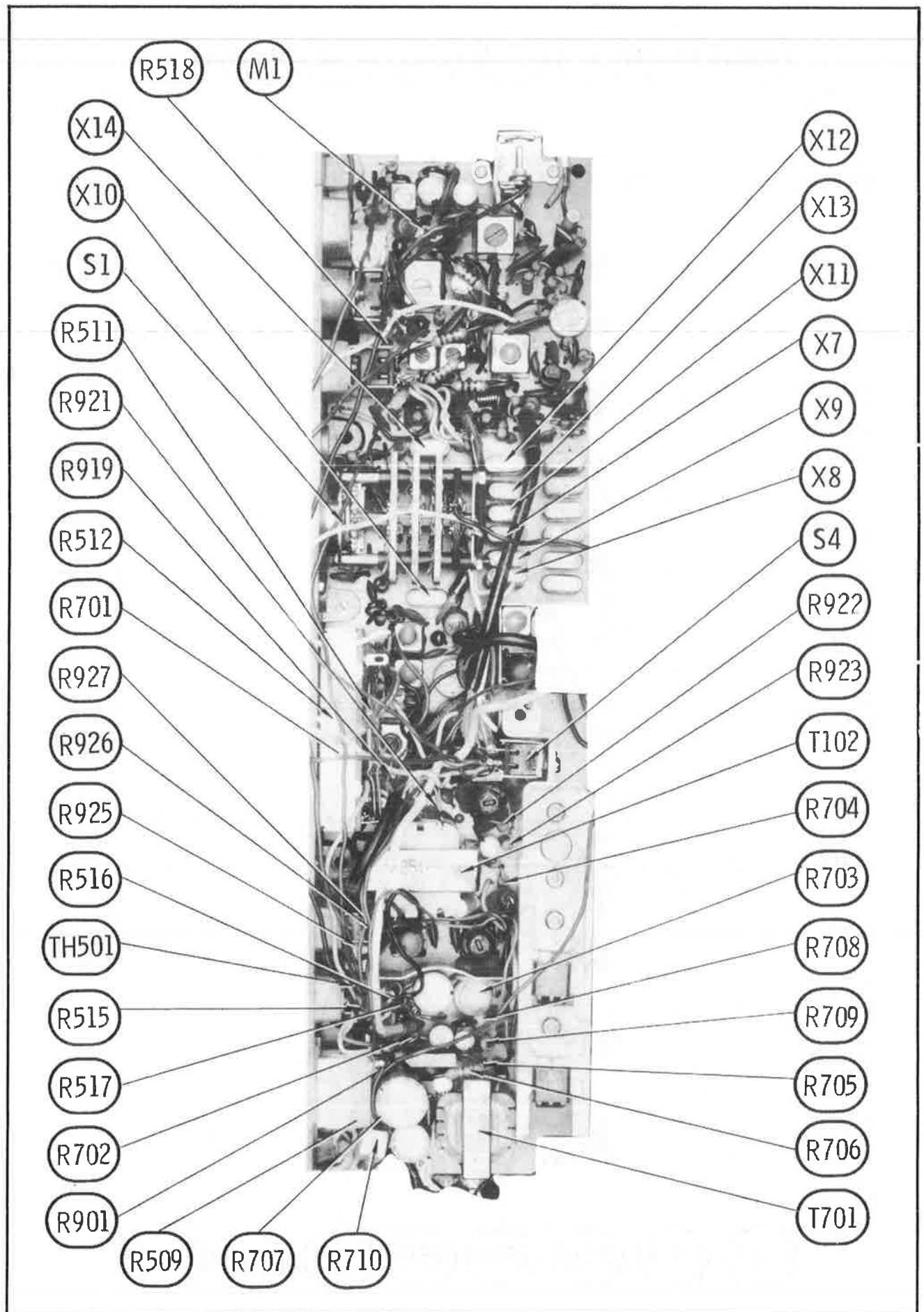
FANON MODEL T-1000

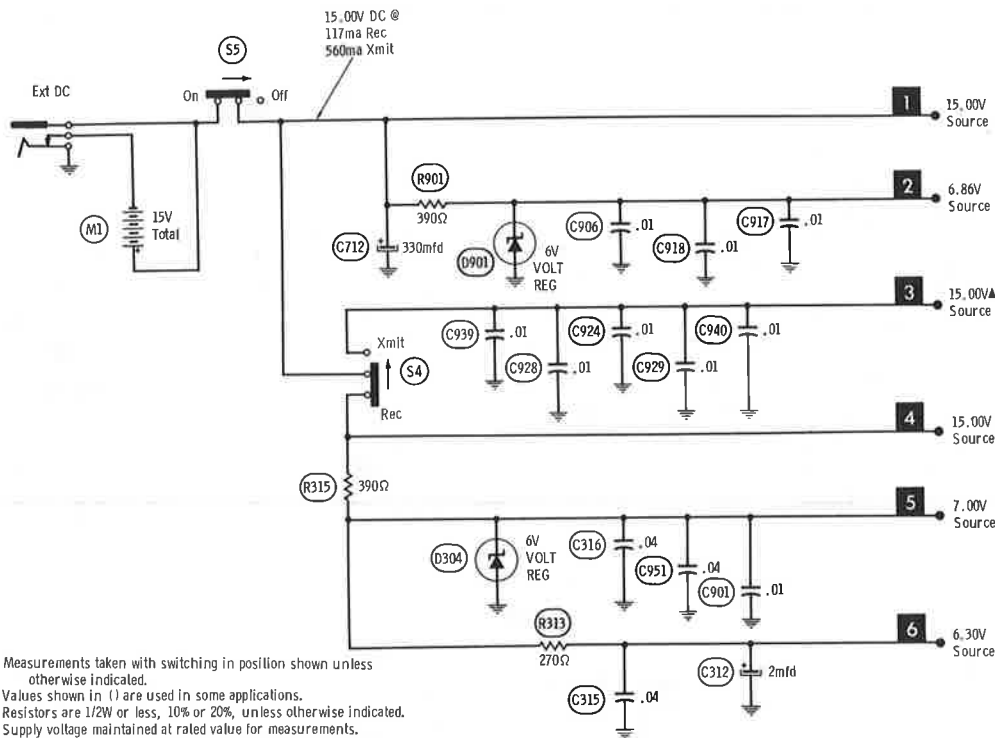


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FANON MODEL T-1000





Measurements taken with switching in position shown unless otherwise indicated.
 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 VTM or equivalent meter, no signal applied and controls adjusted for normal operation.
 Arrow on control indicates direction of advance.
 Numbers assigned to terminals may not be found on the unit.
 Transistor resistances vary widely. No resistance measurements taken.

- ▲ Measured in "Transmit" position
- ⊥ Denotes ground. (Voltage reference unless otherwise indicated).
- Indicates connection used in some versions.
- ✕ Indicates connection not used in some versions.
- * Omitted in some versions.
- ⊙ See parts list.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC

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FANON MODEL T-1000

FANON MODEL T-1000

PARTS LIST AND DESCRIPTION

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

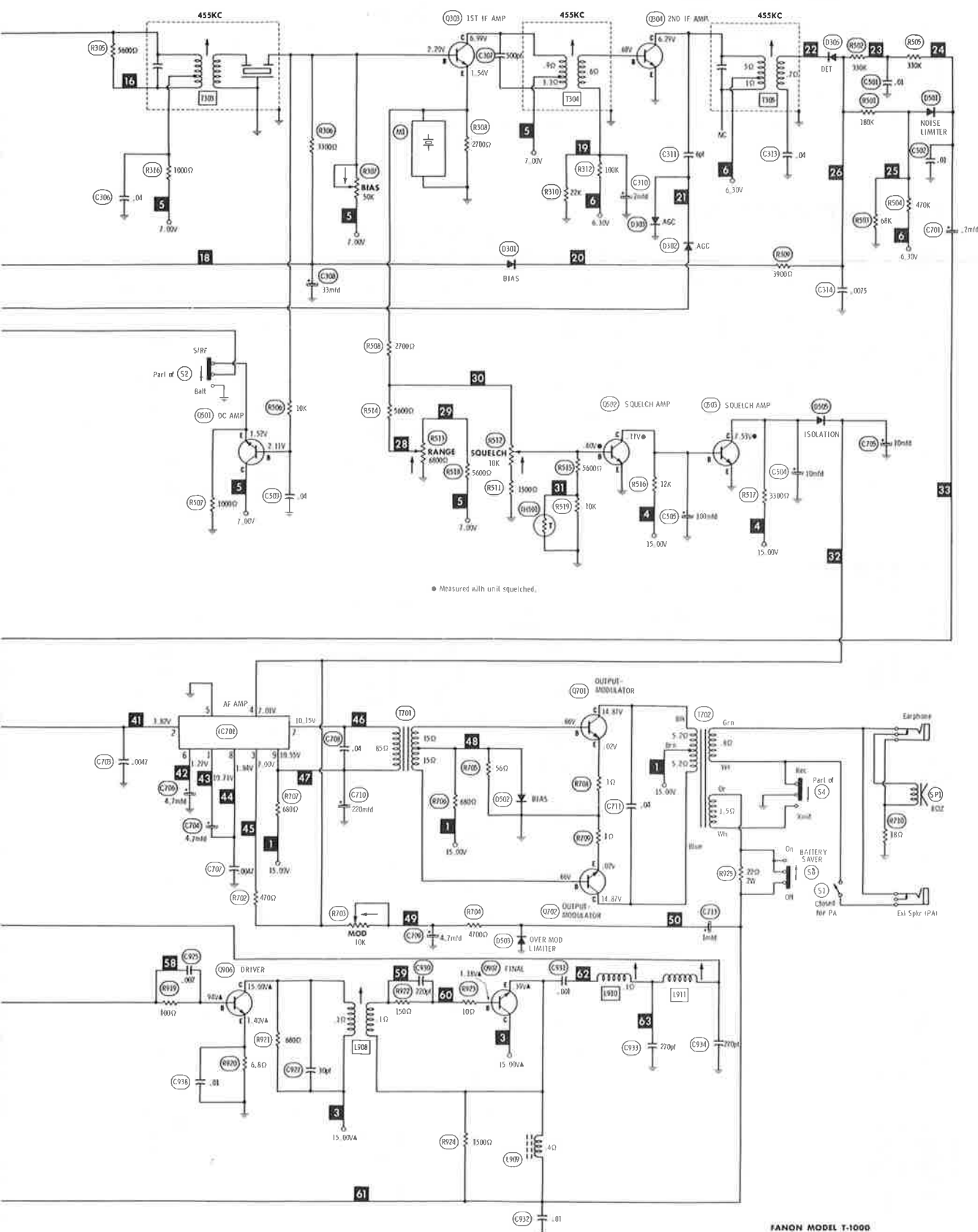
SEMICONDUCTORS

ITEM No.	TYPE / MFG. 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.
D101	1S188FM/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087	RT218	ECG 109
D102	1S188FM/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D301	DS-410/1009-08	GE-300	D200	PTC214	HEPRO600	SK3100		ECG 177
D302	1S188/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D303	1S188/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087	RT218	ECG 109
D304	R07A(1S332M)(10)/1009-06	GEZD-7.5	Z1206	ZB6.8	HEPZ0409	SK3059		ECG 5071
D305	1S188/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D501	1S358S(1S953)/1009-07	GE-300	D200	PTC214	HEPRO600	SK3100		ECG 177
D502	SH-1DE/1009-09	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D503	1S188/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087	RT213 or RT214	ECG 109
D504	1S188/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D505	1S188/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D901	R07A(1S332M)(10)/1009-06	GEZD-7.5	Z1206	ZB6.8	HEPZ0409	SK3059		ECG 5071
D902	1S188/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087	RT175	ECG 109
D903	1S188/1002-09	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
IC701	LB3001/1009-11	GE-FET-2	FE-100	PTC152	HEP802	SK3116		ECG 132
Q101	2SK19GR(2SK33F)/1009-01	GE-FET-2	FE-100	PTC152	HEP802	SK3116		ECG 132
Q301	2SC930N/1002-02	GE-20	TR-21	PTC123	HEP56	SK3018	RT107	ECG 107
Q302	2SC930D/1002-02	GE-20	TR-21	PTC123	HEP56	SK3018	RT407	ECG 107
Q303	2SC930D/1002-02	GE-20	TR-21	PTC123	HEP56	SK3018	RT107	ECG 107
Q304	2SC930D/1002-02	GE-20	TR-21	PTC123	HEP56	SK3018	RT107	ECG 107
Q501	2SC537E/1002-04	GE-10	TR-24	PTC123	HEP56	SK3124	RT102	ECG 123A
Q502	2SC537G/1002-04	GE-10	TR-24	PTC123	HEP56	SK3122	RT102	ECG 123A
Q503	2SC537G/1002-04	GE-10	TR-24	PTC123	HEP56	SK3122	RT102	ECG 123A
Q701	2SC1013/1009-05	GE-28	1RTR-55	PTC110	HEPS3020	SK3041	RT150	ECG 186
Q702	2SC1013/1009-05	GE-28	1RTR-55	PTC110	HEPS3020	SK3041	RT150	ECG 186
Q901	2SC930D/1002-02	GE-20	TR-21	PTC123	HEP56	SK3018	RT107	ECG 107
Q902	2SC930D/1002-02	GE-20	TR-21	PTC123	HEP56	SK3018	RT107	ECG 107
Q903	2SC930D/1002-02	GE-20	TR-21	PTC123	HEP56	SK3018	RT107	ECG 107
Q904	2SC715E/1002-03	GE-20	TR-21	PTC123	HEP56	SK3122	RT107	ECG 123A

(CONTINUED ON PAGE 52)



FANON MODEL T-1000



PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (cont)

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.
Q905	2SC815/1009-02	GE-20	TR-21	PTC123	HEP736	SK3047	RT107	ECG 123A
Q906	2SC781/1009-03	GE-18	IRTR-64		HEPS3001	SK3047		ECG 128
Q907	2SC799/1009-04		IRTR-65		HEPS3002	SK3049		

(10) Zener

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.
C308	33	6.3V	R-C9811	ME-2-B-035	EP6-25	WBR35-50	MTV30CB25	EV-1125
C310	2	10V	R-C9174	ME-1-D-002	EP15-2	WBR2-50	MTV2CB50	EV-1317
C312	2	10V	R-C9174	ME-1-D-002	EP15-2	WBR2-50	MTV2CB50	EV-1317
C504	10	10V	R-C9244	RME-A-D-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C505	100	10V	R-C9200	RME-E-D-100	EP15-100	WBR100-16	MTV100CB10	EV-1130
C701	.2	10V	R-C9120				TAS224K035POA	SD50-R229
C702	4.7	6.3V	R-C9882	ME-1-B-005	EP6-5	WBR5-50	MTV5CB50	EV-1319
C704	4.7	6.3V	R-C9882	ME-1-B-005	EP6-5	WBR5-50	MTV5CB50	EV-1319
C705	10	10V	R-C9244	RME-A-D-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C706	33	6.3V	R-C9811	ME-2-B-035	EP6-25	WBR35-50	MTV30CB25	EV-1125
C709	4.7	6.3V	R-C9882	ME-1-B-005	EP6-5	WBR5-50	MTV5CB50	EV-1319
C710	220	10V	R-C9879	ME-6-D-200	EA15-250	WBR250-16	MTV200DB10	EV-1140
C713	1	50V	R-C9255	RME-A-J-001	EP50-2	WBR1-50	MTV1CB50	EV-1615
C712	330	16V	R-C9861	ME-8-E-250	EA15-250	WBR300-35	MTA300G50	EV-1245

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.
C101	25			DTZ-25		CN0425	10TCC-Q25
C102	100			DTZ-100		CN0310	10TCC-T10
C103	.01		CCT0-101	CK-103	NP0100	TA110	TG-S10
C104	.04		CCD-103	DD-403	MGP01	GP140	
C105	50			DTZ-50	NP050	CN0450	10TCC-Q50
C106	.01		CCT0-510	CK-103	MGP01	TA110	TG-S10
C107	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C108	50		CCT0-103	DTZ-10	NP010	CN0410	10TCC-Q10
C109	1		CCT0-510	CK-103	MGP01	TA110	TG-S10
C301	.01			DTZ-50	NP050	CN0450	10TCC-Q50
C302	.01		CCD-103	CK-103	MGP01	CN0510	10TCC-V10
C303	10		CCD-103	CK-103	MGP01	TA110	TG-S10
C304	.01		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C305	.04		CCD-103	CK-103	MGP01	TA110	TG-S10
C306	.04			DD-403		GP140	
C307	500			DD-403		GP140	
C309	.04		DM-16-471	CPR-470J	CD15F471J500	SX347	MS-347
C311	6			DD-403		GP140	
C313	.04			DD-403		GP140	10TCC-V56
C314	.0075			DD-682		JF268	
C315	.04		CCD-682	DD-403		GP140	10TS-D68
C316	.04			DD-403		GP140	
C317	.04			DD-403		GP140	
C501	.01			DD-403		GP140	
C502	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C503	.04		CCD-103	CK-103	MGP01	TA110	TG-S10
C506	.01			DD-403		GP140	
C703	.0047		CCD-103	CK-103	MGP01	TA110	TG-S10
C707	.0047		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C708	.04		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C711	.04			DD-403		GP140	
C901	.01			DD-403		GP140	
C902	50		CCD-103	CK-103	MGP01	TA110	TG-S10
C903	80		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C904	.001		CCT0-820	DTZ-82	NP082	CN0482	10TCC-Q82
C905	40		CCD-102	DM-102	GP1000	SM210	2SS-D10
C906	.01					CN0439	10TCC-Q39
C907	.0022		CCD-103	CK-103	MGP01	TA110	TG-S10
C908	12		CCD-222	DD-222	GP2200	GP222	10TS-D22
C909	.005		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C910	50		CCD-502	CK-502	MGP005	TA250	TG-D50
C911	150		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C912	50		CCD-151	DD-151	GP150	GP315	10TS-T15
C913	.001		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C914	150		DM-19-102J	CPR-1000J	CD19F102J500	SX210	424ME1001J501
			CCD-151	DD-151	GP150	GP315	10TS-T15

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/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C915	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C916	150		CCD-151	DD-151	GP150	GP315	10TS-T15
C917	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C918	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C919	3						10TCC-V30
C920	70			DTZ-68		CN0468	10TCC-Q68
C921	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C922	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C923	50		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C924	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C925	.002		CCD-202	DM-202	GP2000	GP220	2SS-D20
C926	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C927	30		CCTO-300				10TCC-Q30
C928	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C929	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C930	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C931	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C932	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C933	270		CCD-270	DD-271	GP270	GP327	10TS-T27
C934	270		CCD-270	DD-271	GP270	GP327	10TS-T27
C935	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C936	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C937	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C938	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C939	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C940	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C942	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C943	30		CCTO-300				10TCC-Q30
C944	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C950	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C951	.01		CCD-103	CK-103	MGP01	TA110	TG-S10

FANON MODEL T-1000

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.	CTS-IRC PART No.	MALLORY PART No.
R307	Bias	50K	1009-34				
R314	RF AGC	2.2meg	1009-33				
R510	Meter Adjust	6800	1009-32				
R512	Squelch	10K	1009-28				
R513	Range	6800	1009-32				
R701	Volume	10K	1009-29				
R703	Modulation Adjust	10K	1009-31				

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L101	Rec. Antenna	1009-12			
L102	RF	1002-14			
L901	Rec. Oscillator	1009-13			
L902	RF Choke (10 Turns)	1009-14			
L903	Rec. Oscillator	1009-15			
L904	Peaking (120uh)	1009-16			
L905	Xmtr. Mixer			72F124AP	T307
L906	Xmtr. Buffer Input				
L907	Xmtr. Buffer Output	1002-14			
L908	Xmtr. Driver	1009-18			
L909	RF Choke (2uh)	1009-19	19-2011	74F226AP	T812
L910	Final	1009-20			
L911	Pi Network	1009-21			
L912	Antenna Matching	1009-20			
L913	TVI				
T301	1st Mixer Output	1009-22			
T302	2nd Mixer Input	1009-23			
T303	Input IF	1004-11 (1)		8814	
T304	Interstage IF	1009-24	16-9034	8811	
T305	Output IF	1009-25		8518	

(1) Includes Filter Part No. 1009-27.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.	
T701	2	1CT		1009-26 (R-W6375)				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T702	72CT	8	1002-18 (4-254R539)				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	2-5/8" PM, 8 ohms	1009-30		

BATTERIES

ITEM No.	VOLTAGE	MFGR. PART No.	EVEREADY PART No.	NOTES
M1	15V		1015 or E91 E9	10 Required 12 Required (Mercury cells)

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M2	Meter	1009-36	Battery, RF Channel Selector Battery Saver - Meter Delta Tuning Push-to-talk Power Battery Saver Telescopic
M3	Microphone	1009-35	
S1	Switch	1009-39	
S2	Switch	1009-38	
S3	Switch	1002-27	
S4	Switch	1009-40	
S5	Switch	1009-37	
S6	Switch	1009-42	
	Antenna		

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Left Side	1009-46(A)	Panel, Front	1009-49
Cabinet, Right Side	1009-46(B)		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
DC Cord with Plugs Rechargeable Battery Pack	1009-48 NCA-2	

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. 8499 Single-Conductor Shielded (Neoprene) 8498 Single-Conductor Shielded (Vinyl)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 In.)



PHOTOFACT®

For Supplier Address See PHOTOFACT Index

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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 23+ (516-023)

ALIGNMENT INSTRUCTIONS

SUGGESTED ALIGNMENT TOOLS:

A1 thru A13, A15 thru A18, A21.....GC ELECTRONICS #8606,8869,9302

A14,A19,A20.....GC ELECTRONICS #8868,9087,9089

KRIS MODEL 23 +

RECEIVER

Connect an AC VTVM across speaker Voice Coil. Turn Volume Control to mid-range, Squelch Control fully counterclockwise (MINIMUM). PA switch to CB position. Set Fine Tuning to Center.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to Pin 8 (Grid) V2A (2nd Rec Mixer), low side to Chassis. Tune to 455KC (Mod.)	Any	A1 thru A6	Adjust for maximum.
High side thru .01mfd to Pin 2 (Grid) V1B (1st Rec Mixer), low side to Chassis. Tune to 11.275MC (Mod.).	Any	A7, A8	Adjust for maximum.
	23	A9	Connect DC VTVM to Pin 9 (Grid) V3A (Local Osc) and Adjust A9 for approximately -4.5V to -8V Reading. Back off to 70% of peak reading.

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ALIGNMENT INSTRUCTIONS (Continued)

RECEIVER (CONT)

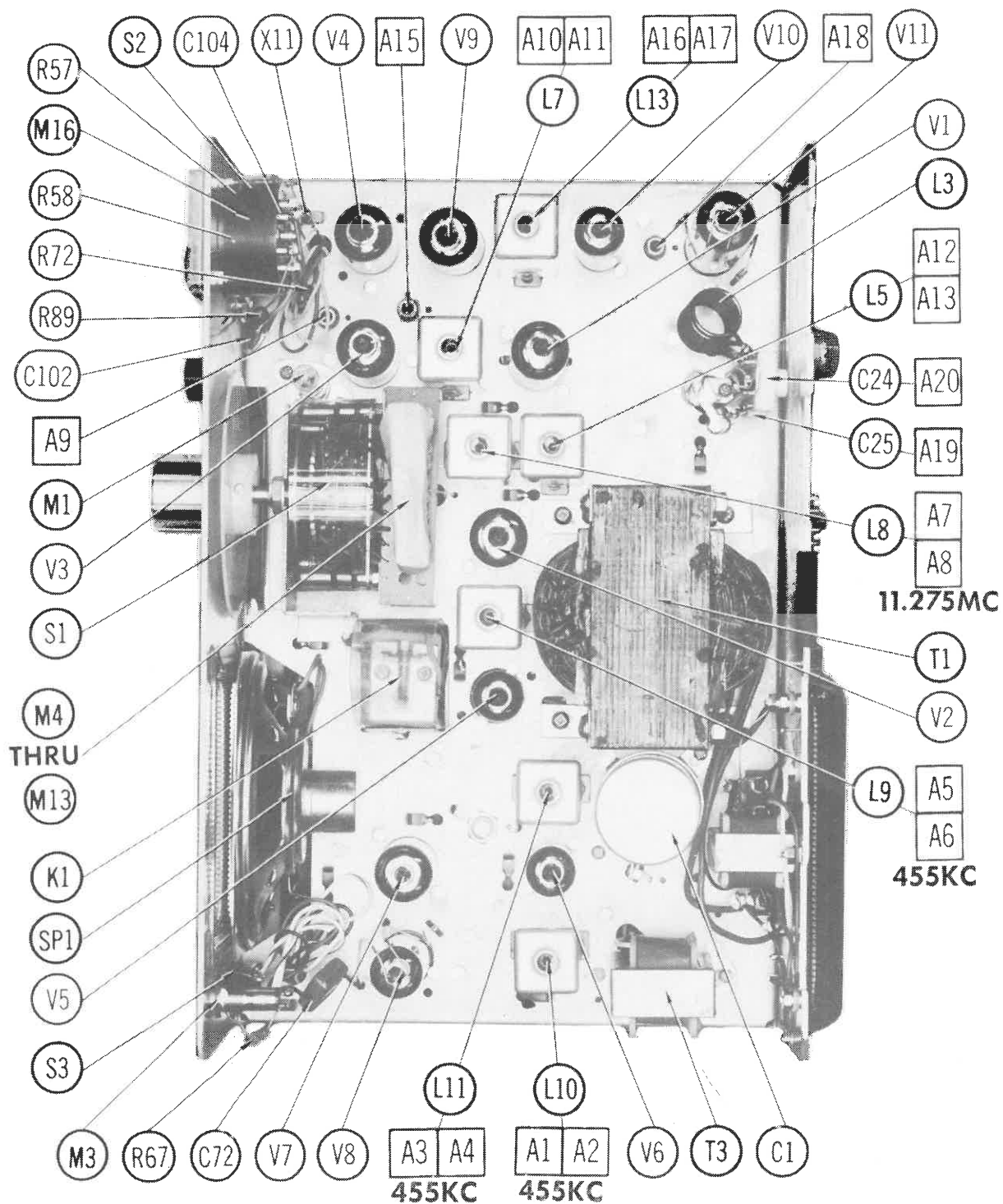
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to antenna connector, low side to chassis. Tune to 27.115 (Channel B) Mod.	13	A10 thru A13	Adjust for maximum.
High side thru .01mfd to antenna connector, low side to chassis. Tune to 27.115 (Channel B) Mod. 100 microvolts input.	13	R4	Adjust for S-9 Indication on "S" -RF.

TRANSMITTER

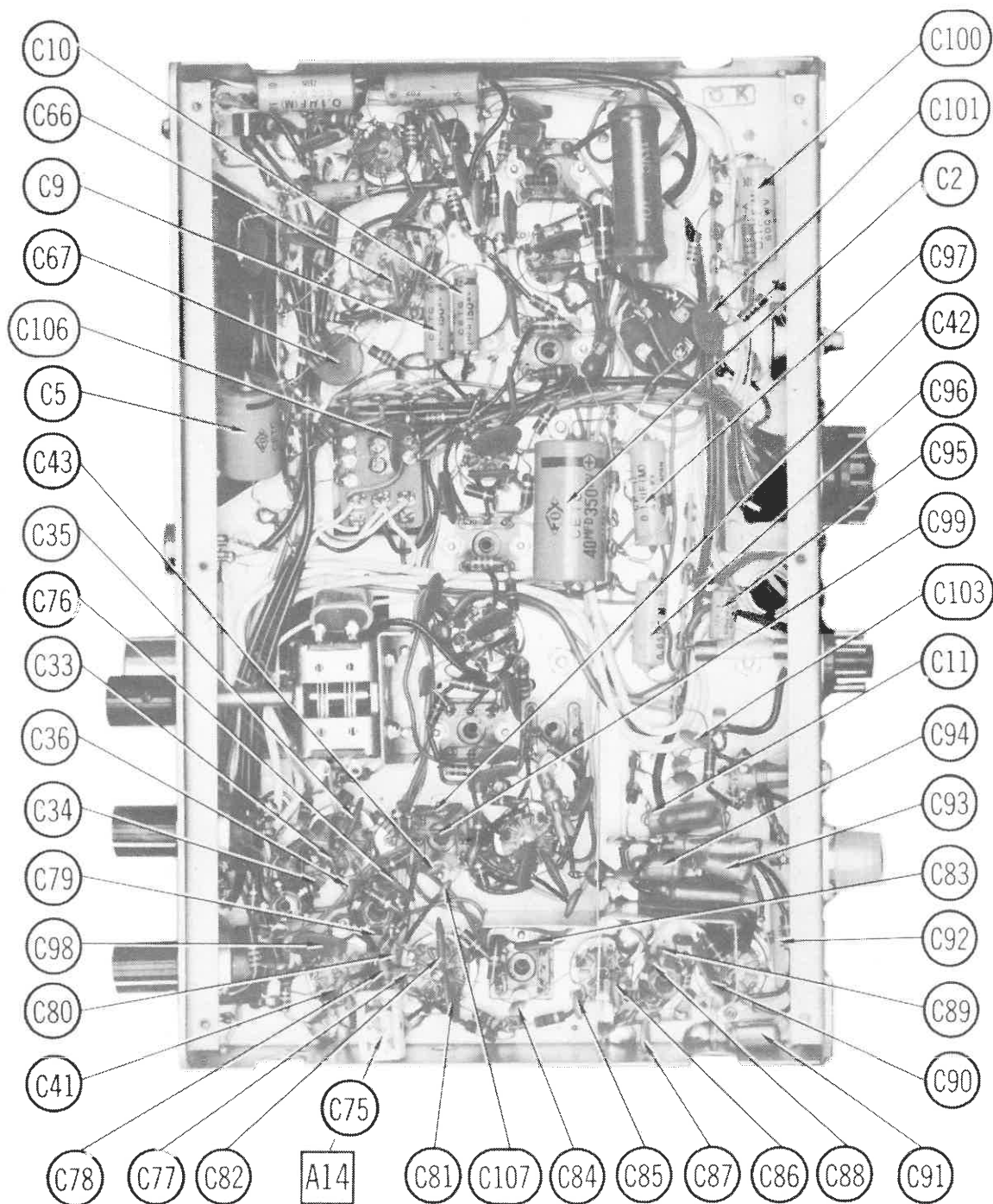
INDICATOR	ADJUST	REMARKS
AC VTVM & Frequency Meter.	A14 thru A17	Connect Meter to Pin 1 (Grid) V10 (Xmtr Driver). Adjust for approximately .5V to 1.4V (AC). Check output of xmtr for proper frequency.
DC VTVM with 1meg resistor in series with probe.	A18	Connect Meter to Pin 2 (Grid) V11 (Final Amp), Adjust A18 for approximately -15V. Check all Channels for equal Readings.
RF Wattmeter & DC VTVM.	A19,A20	Adjust for maximum. Check voltage across R87 (1000 ohms 2W), Reading should not exceed 19V. Readjust A19 (Plate) & A20 antenna for proper reading.
Nearby TV	A21	Tune TV to Channel "2". Adjust for MINIMUM Interference.

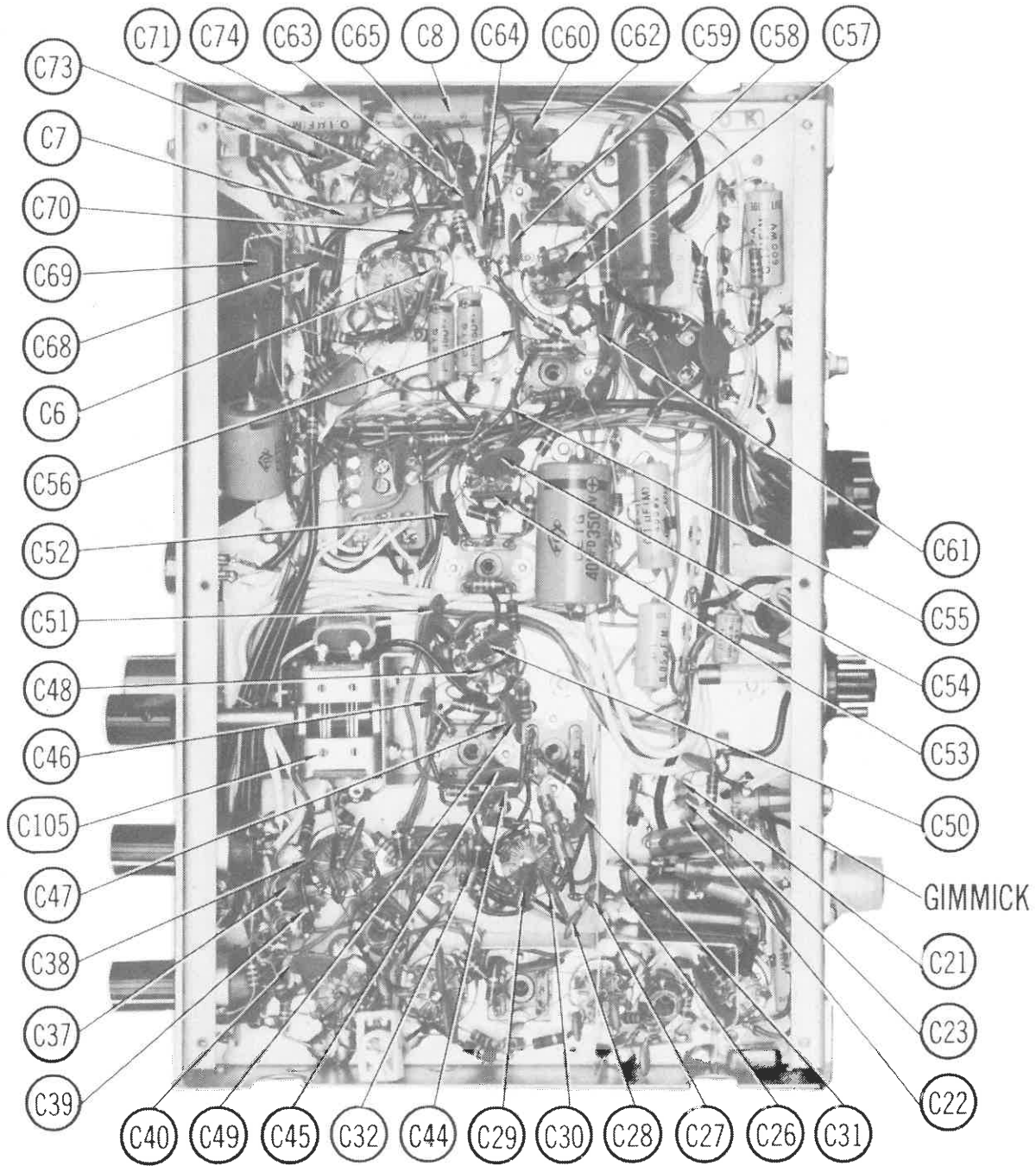
MODULATION ADJUSTMENT

INDICATOR	ADJUST	REMARKS
Modulation Monitor & Audio Signal Generator	R3	Connect Generator to Pin 1 Microphone Jack thru .05mfd, low side to Chassis. Tune to 1KC and output of 40mv. Range Boost Switch to On. Adjust for 80% modulation. Generator output of 5MV should produce 50% modulation.

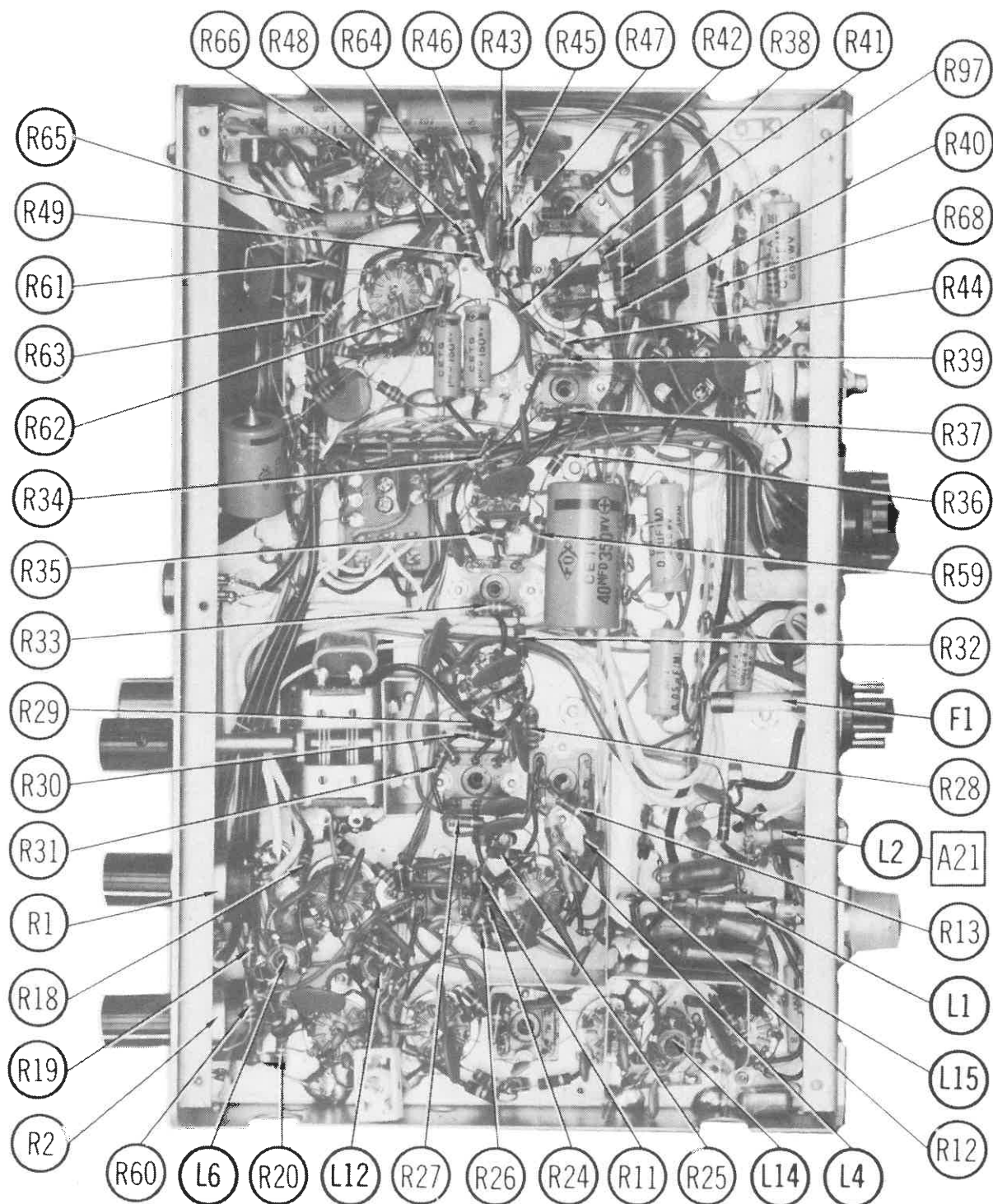


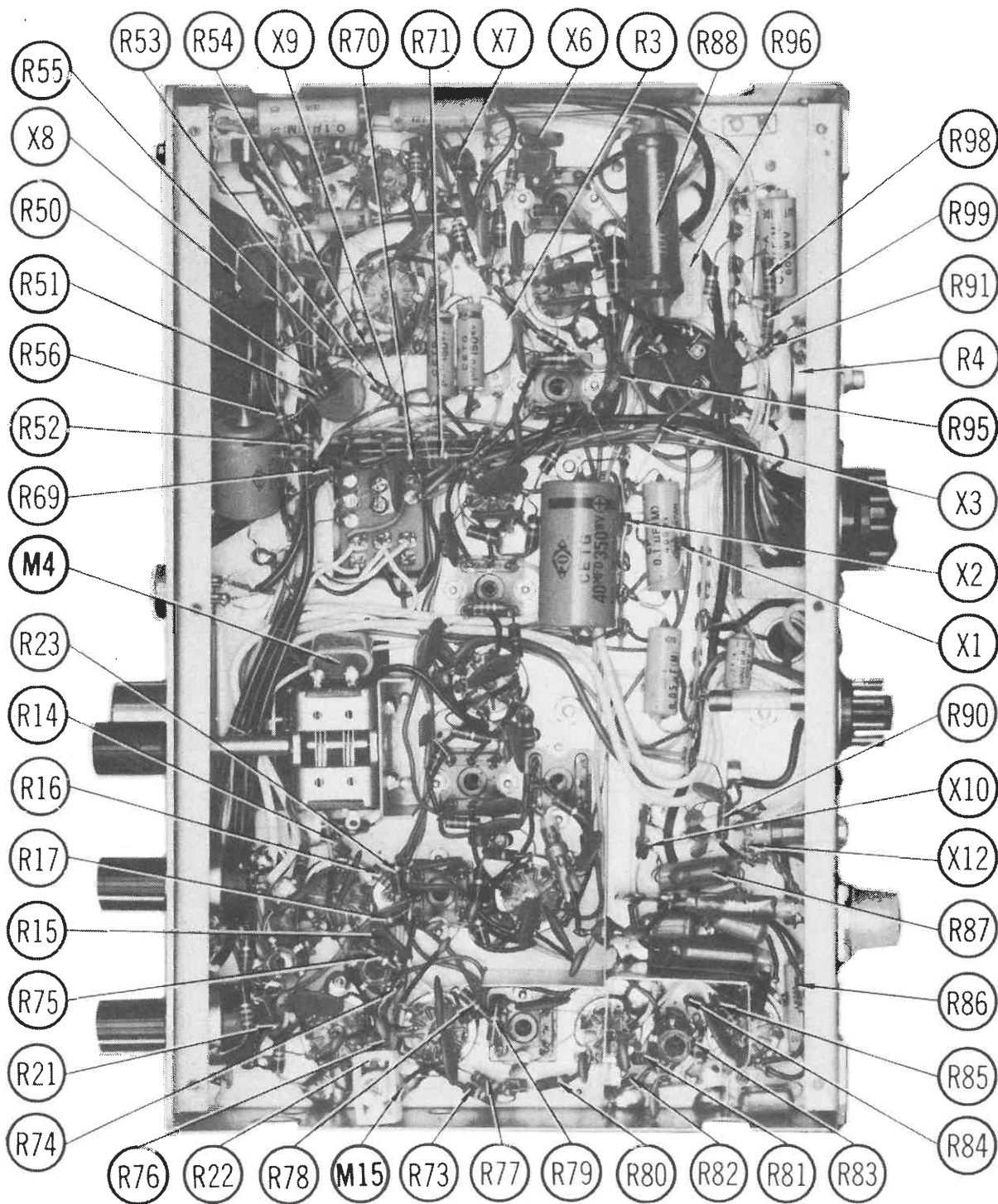
KRIS MODEL 23 +



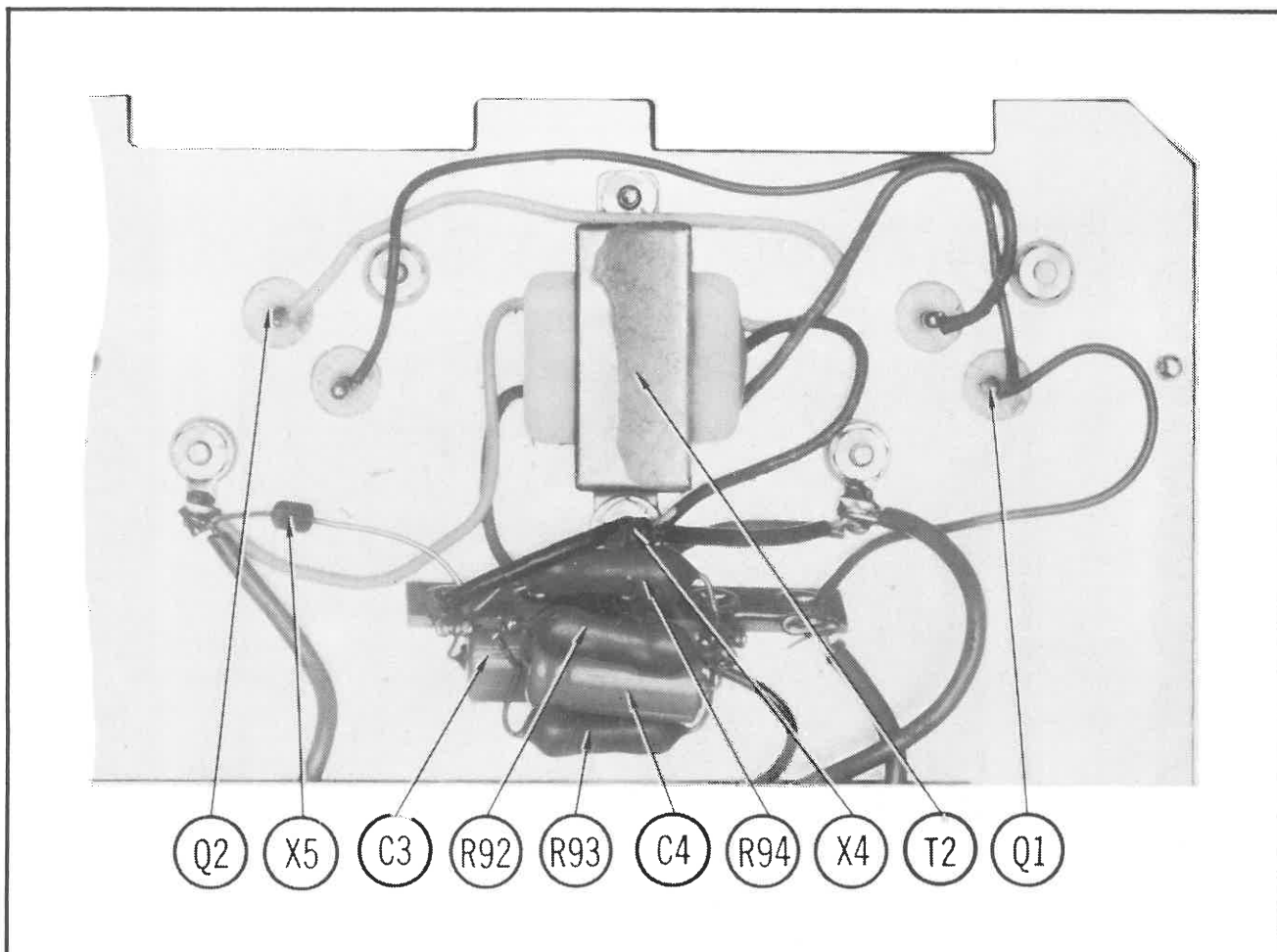


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RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6AN8A	45K†	0Ω	900Ω	FIL	FIL	2000Ω†	100K†	800K	100Ω
V2	6AN8A	100K†	100K	0Ω	FIL	FIL	34K†	100K†	0Ω	470Ω
V3	6GH8	22K†	100K	47K†	FIL	FIL	10K†	1000Ω	0Ω	100K
V4	12A17	9000Ω†	100K	0Ω	FIL	FIL	18K†	100K	0Ω	FIL
V5	6BA6	1.1meg	0Ω	FIL	FIL	3300Ω†	25K†	100Ω		
V6	6BA6	600K	0Ω	FIL	FIL	3300Ω†	100K	100Ω		
V7	12AX7A	500K†	100K	2200Ω	FIL	FIL	340K†	300K	1000Ω	FIL
V8	6AQ5	470K	220Ω	FIL	FIL	250Ω†	6900Ω†	470K		
V9	6GH8	21K▲	47K	100K▲	FIL	FIL	11K▲	470Ω	0Ω	100K
V10	6BA6	0Ω	0Ω	FIL	FIL	2000Ω▲	28K▲	100Ω		
V11	6BQ5	NC	1.6meg*	47Ω	FIL	FIL	NC	1NF	NC	7000Ω▲
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

† MEASURED FROM CATHODE X2

* MEASURED FROM ANODE X3

▲ MEASURED FROM CATHODE X2 WITH PINS 8 & 10 OF K1 SHORTED.

PARTS LIST AND DESCRIPTION

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

TUBES

AMPEREX			GENERAL ELECTRIC			RCA			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	RF Amp - 1st Rec Mixer	6AN8A	V7	Mic Preamp - AF Amp	12AX7A	V7	Mic Preamp - AF Amp	12AX7A	V7	Mic Preamp - AF Amp	12AX7A
V2	2nd Rec Mixer - Rec Osc	6AN8A	V8	Output - Modulator	6AQ5	V8	Output - Modulator	6AQ5	V8	Output - Modulator	6AQ5
V3	Local Oscillator	6GH8	V9	Xmtr Oscillator - Mixer	6GH8	V9	Xmtr Oscillator - Mixer	6GH8	V9	Xmtr Oscillator - Mixer	6GH8
V4	Buffer - Synthesizer	12AT7	V10	Xmtr Driver	6BA6	V10	Xmtr Driver	6BA6	V10	Xmtr Driver	6BA6
V5	1st IF Amp	6BA6	V11	Final Amp	6BQ5	V11	Final Amp	6BQ5	V11	Final Amp	6BQ5
V6	2nd IF Amp	6BA6									

SEMICONDUCTORS

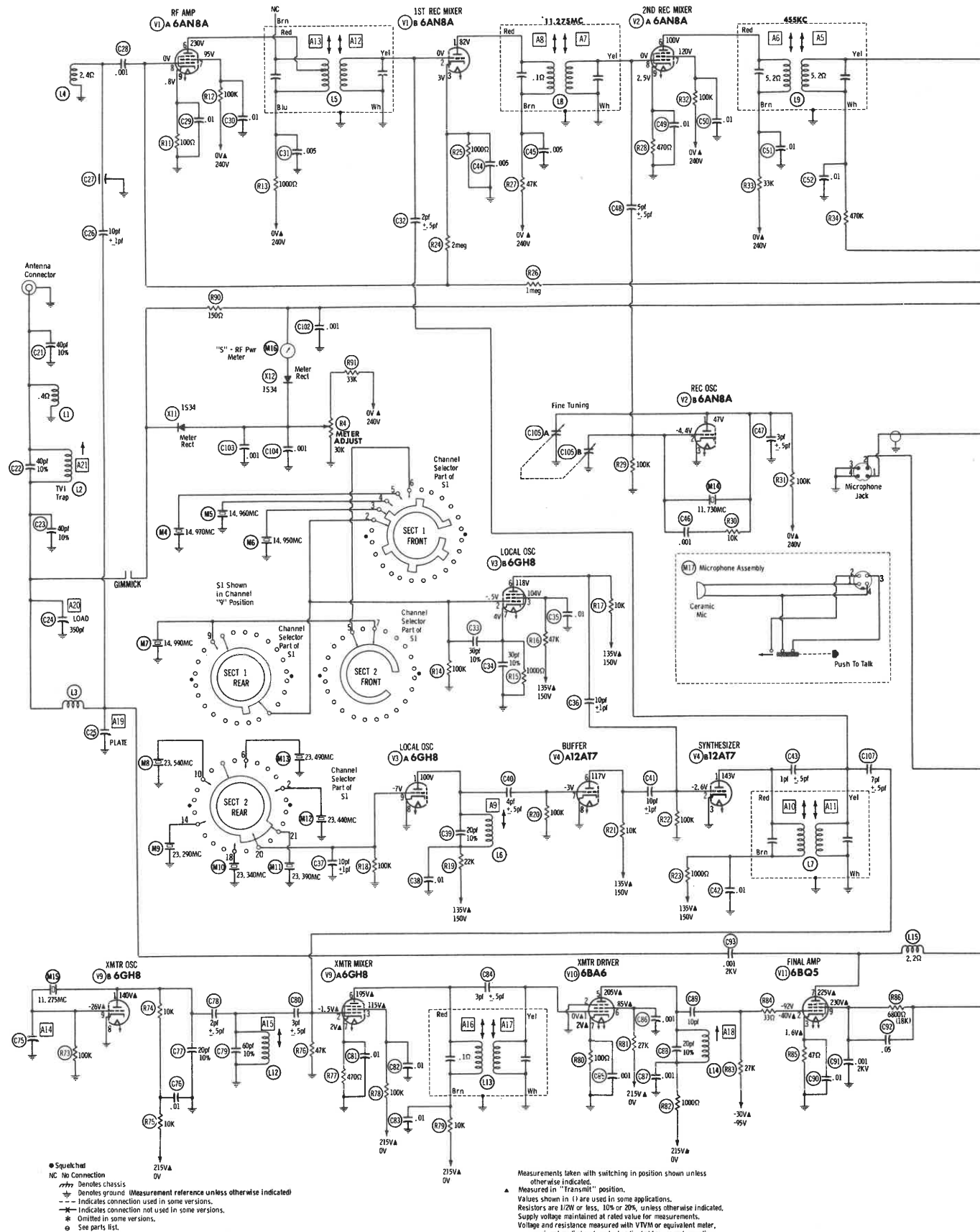
ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q1	2SB471B	GE-16	TR-01	PTC105	HEP232	SK3009	RT127	ECG 121
Q2	2SB471B	GE-16	TR-01	PTC105	HEP232	SK3009	RT127	ECG 121
X1	10D6	GE-504A	8D6 or 5A6D	PTC202	HEPRO054 or	SK3017A or	RT210 or	ECG 116 or
					HEPRO055	SK3032	RT215	ECG 117
X2	10D6	GE-504A	8D6 or 5A6D	PTC202	HEPRO054 or	SK3017A or	RT210 or	ECG 116 or
					HEPRO055	SK3032	RT215	ECG 117
X3	10D6	GE-504A	8D6 or 5A6D	PTC202	HEPRO054 or	SK3017A or	RT210 or	ECG 116 or
					HEPRO055	SK3032	RT215	ECG 117
X4	10D4	GE-504A	8D4 or 5A4D	PTC201 or	HEPRO052 or	SK3030 or	RT213 or	ECG 116 or
				PTC202	HEPRO053	SK3031	RT214	ECG 117
X5	10D4	GE-504A	8D4 or 5A4D	PTC201 or	HEPRO052 or	SK3030 or	RT213 or	ECG 116 or
				PTC202	HEPRO053	SK3031	RT214	ECG 117
X6	1N60	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
X7	1S72	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
X8	10D1	GE-504A	8D4 or 5A4D	PTC201 or	HEPRO052 or	SK3030 or	RT213 or	ECG 116 or
				PTC202	HEPRO053	SK3031	RT214	ECG 117
X9	10D4	GE-504A	8D4 or 5A4D	PTC201 or	HEPRO052 or	SK3030 or	RT213 or	ECG 116 or
				PTC202	HEPRO053	SK3031	RT214	ECG 117
X10	10D4	GE-504A	8D4 or 5A4D	PTC201 or	HEPRO052 or	SK3030 or	RT213 or	ECG 116 or
				PTC202	HEPRO053	SK3031	RT214	ECG 117
X11	1S34 (SD46)	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
X12	1S34 (SD46)	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109

KRIS MODEL 23 +

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.
C1A	40	350V		CTM-3476			FP330.9A	TVA-3748
B	40	350V						
C	40	350V						
C2	40	350V	CTA1397			WBR50-450	TC79A	TVA-1612
C3	25	50V	RME-F-J-025		EP50-25	WBR25-50	MTV25CB50	EV-1624
C4	10	50V	RME-D-J-010		EP50-10	WBR10-50	MTV10CB50	EV-1622
C5	10	30	CTA1370			WBR10-450	TC62A	TVA-1604
C6	10	16V	RME-B-G-010		EP30-10	WBR10-25	MTV10CB50	EV-1222
C7	10	25V	RME-B0G0010		EP30-10	WBR10-25	MTV10CB50	EV-1322
C8	5	350V	CTA1360			WBR5-450	TC60A	TVA-1602.5
C9	1	160V	CTA1400			WBR1-450	TC595	TVA-1434
C10	1	160V	CTA1400			WBR1-450	TC595	TVA-1434
C11	1	160V	CTA1400			WBR1-450	TC595	TVA-1434

(CONTINUED ON PAGE 80)



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PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.
C21	40	10%					CN0439	10TCC-Q39
C22	40	10%					CN0439	10TCC-Q39
C23	40	10%					CN0439	10TCC-Q39
C24	350							
C25	30							
C26	10	+1		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C28	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C29	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C30	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C31	.005			CCD-502	DD-502	GP5000	JF250	10TS-D50
C32	2	+5			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C33	30	10%		CCT0-300				10TCC-Q30
C34	30	10%		CCT0-300				10TCC-Q30
C35	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C36	10	+1		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C37	10	+1		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C38	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C39	20	10%		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C40	4	+5				NP03P9		10TCC-V39
C41	10	+1		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C42	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C43	1	+5					CN0510	10TCC-V10
C44	.005			CCD-502	DD-502	GP5000	JF250	10TS-D50
C45	.005			CCD-502	DD-502	GP5000	JF250	10TS-D50
C46	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C47	3	+5						10TCC-V30
C48	5	+5				NP05		10TCC-V50
C49	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C50	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C51	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C52	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C53	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C54	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C55	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C56	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C57	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C58	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C59	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C60	100	10%		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C61	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C62	.05			CCD-503	CK-503	MGP05	TA150	TG-S50
C63	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C64	470	10%		CCD-471	DD-471	GP470	GP347	10TS-T47
C65	100	10%		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C66	610	10%		CCD-561	DD-561	GP560	GP356	10TS-T56
C67	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C68	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C69	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C70	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C71	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C72	.002	2KV			DD30-202	HV3-200		30GA-D20
C73	.005			CCD-502	DD-502	GP5000	JF250	10TS-D50
C74	.1	600V						
C75	30							
C76	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C77	20	10%		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C78	2				DTZ-2R2	NP02P2	CN0522	10TCC-V22
C79	60	10%					CN0456	10TCC-Q56
C80	3							10TCC-V30
C81	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C82	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C83	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C84	3	+5						10TCC-V30
C85	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C86	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C87	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C88	20	10%		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C89	10	10%		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C90	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C91	.001	2KV			DD30-102	HV3-1000	3HV210	30GA-D10
C92	.05							
C93	.001	2KV			DD30-102	HV3-1000	3HV210	30GA-D10
C94	.001	2KV			DD-202	GP2000	GP220	10TS-D20
C95	.002			CCD-202	DD-503		GP150	
C96	.05							
C97	.1	400V						
C98	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C99	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C100	.1							
C101	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C102	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C103	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C104	.001			CCD-102	DD-102	GP1000	GP210	10TS-D10
C105	25							
C106	.01			CCD-103	DD-103	GP10000	JF110	10TS-S10
C107	7	+5			DTZ-6R8	NP06P8	CN0568	10TCC-V68

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.	CTS—IRC PART No.	MALLORY PART No.
R1	Volume & Power Switch	500K		F2-500K,SSK014, KR-1	R47-500K-Z,KSS-3, SWE-12, or [NP-500K-Z, UP-C-400,SWE-12]	Q13-133,76-1 or [BU1,CF25,SS1, GC]*	RU55A,SL36, SL3250,US41 or [UA55A,SK1000, US41] or U48, US26
R2	Squelch & Standby Switch	2meg		F1-2meg,SSK014, KR-1	A47-2meg-S,KSS-3, SWE-12, or [NP-2meg,UP-C-400, NWE-12]	Q11-139,76-1 or [BU1,CF19,SS1, GC]*	RU26L,SL36, SL3250,US41 or [UA26L,SK1000, US41] or U56, US26
R3	Range Boost Adjust	500K		F1-500K, SNK010	A47-500K-S, FKS-1/2, or [NP-500K-S, UP-C-400]	B11-133,SK2 or [BU1,CF16,SS6]*	RU55L,SL38, SK750 or [UA55L,SK750] or SU50
R4	Meter Adjust	30K		F1-25K,SRS006	A47-30K-S, FKS-1/2 or [NP-30K-S, UP-A-400]	B11-121,SK2 or [BU1,CF11,SS2, DC1]*	RU34L,SL36, SK3250 or [UA34L,SK750] or U30

* "SNAPTROL"

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R88	5000 10W	10W-SQ-5K	1108-13

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R96	1000 5W	5W-SQ-1K	1057-13

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	RFC (5.6uh)			74F566AP	T820
L2	TVI Trap				
L3	Pi Network (12 turns)				
L4	RFC (22uh)		19-6022	72F225AP	TA311
L5	RF Amp			21A156RB1	
L6	Local Oscillator				
L7	Synthesizer Mixer				
L8	1st Rec Mixer				
L9	Input IF			16-PC2 (1)	
L10	Interstage IF			16-PC2 (1)	
L11	Output IF			16-PC2 (1)	
L12	Xmtr Oscillator				
L13	Xmtr Mixer				
L14	Xmtr Driver			21A156RB1	
L15	RFC (30uh)			72F335AP	T972

(1) Solder to chassis

TRANSFORMER (Power)

ITEM No.	RATING			REPLACEMENT DATA				NOTES
	PRI. 1	SEC. 1	SEC. 2	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC .72A *	110VAC .360A	12.6VAC 2.6A					* Transmit
	PRI 2	SEC. 4	SEC. 5					
	12.6V @ 5.6A *							

TRANSFORMER

ITEM No.	RATING			REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	2	1CT						

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	3872	8					

KRIS MODEL 23 +

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		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	2 Amp			GJV2		318002		
F2	8 Amp			AGC8	HHJ-B	312008	150145	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay		Receive - Transmit
M4	Crystal		14.970MC
M5	Crystal		14.960MC
M6	Crystal		14.950MC
M7	Crystal		14.990MC
M8	Crystal		23.540MC
M9	Crystal		23.290MC
M10	Crystal		23.340MC
M11	Crystal		23.390MC
M12	Crystal		23.440MC
M13	Crystal		23.490MC
M14	Crystal		11.730MC
M15	Crystal		11.275MC
M16	Meter		"S" -RF Power Indicator
S1	Switch, Selector		
S2	Switch, Range Boost		
S3	Switch, PA-CB		

MICROPHONE

ITEM No.	REPLACEMENT DATA			REMARKS
	MFGR. PART No.			
M17				

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

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.)



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 2300 (Late Prod.)

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

L2, L3, L5 Thru L7, L9 Thru L15, L20 Thru L25; L27, L29, L30GC ELECTRONICS #8728, 9089

RECEIVER

Connect an AC VTVM across speaker voice coil. Set squelch control fully counterclockwise. Adjust Volume control to obtain a suitable reading.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to base of Q4 (2nd Rec. Mixer), low side to ground. Set to 455KC (Mod.)	Any	L16,L15, L14,L13, L12,L11, L10	Adjust for maximum.
High side thru .01mfd to antenna connector, low side to chassis. Set generator to 27.085MC (Mod) (Channel 11).	11	L9,L7, L5,L6, L3,L2	Adjust for maximum.

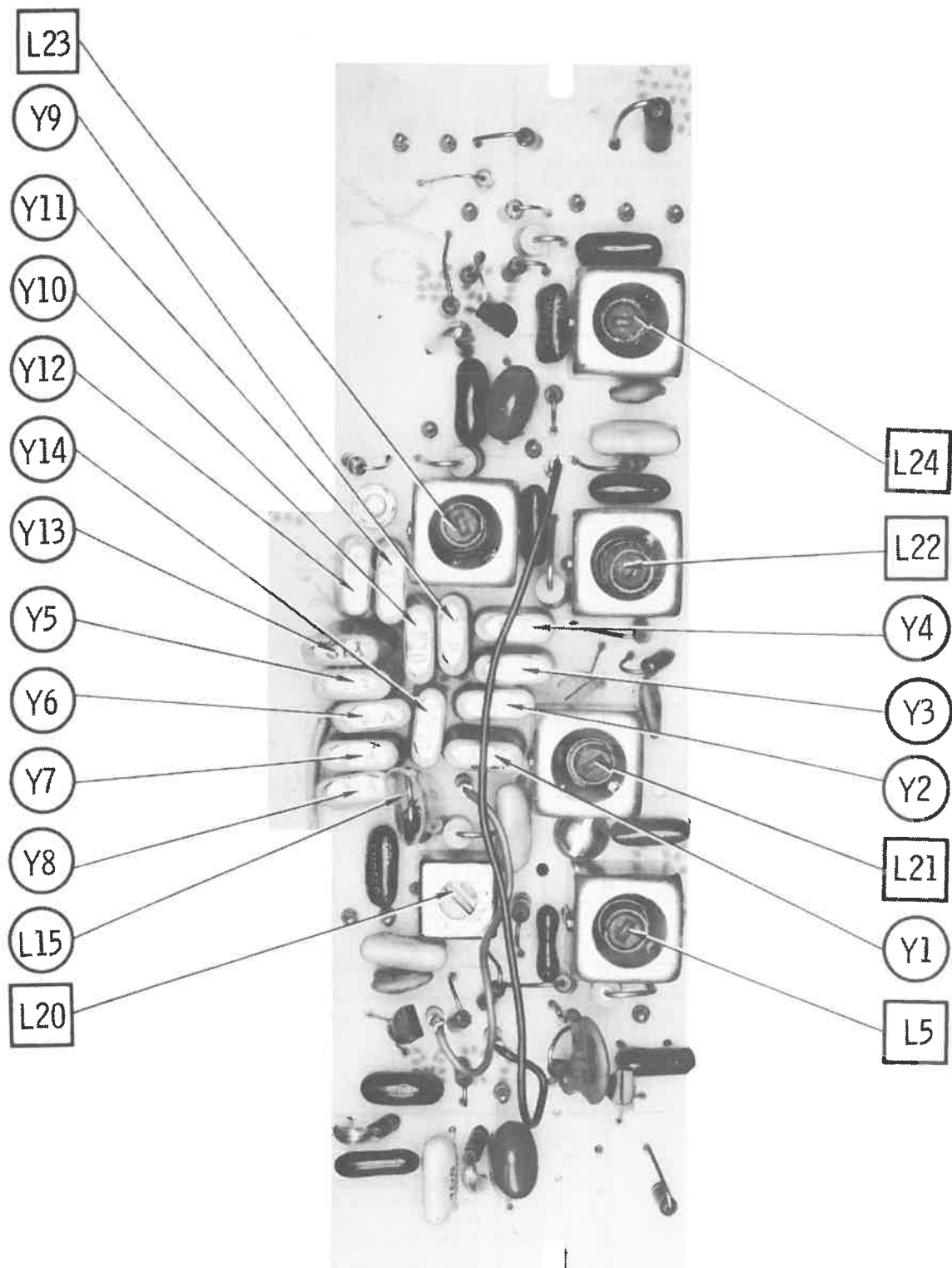
TRANSMITTER

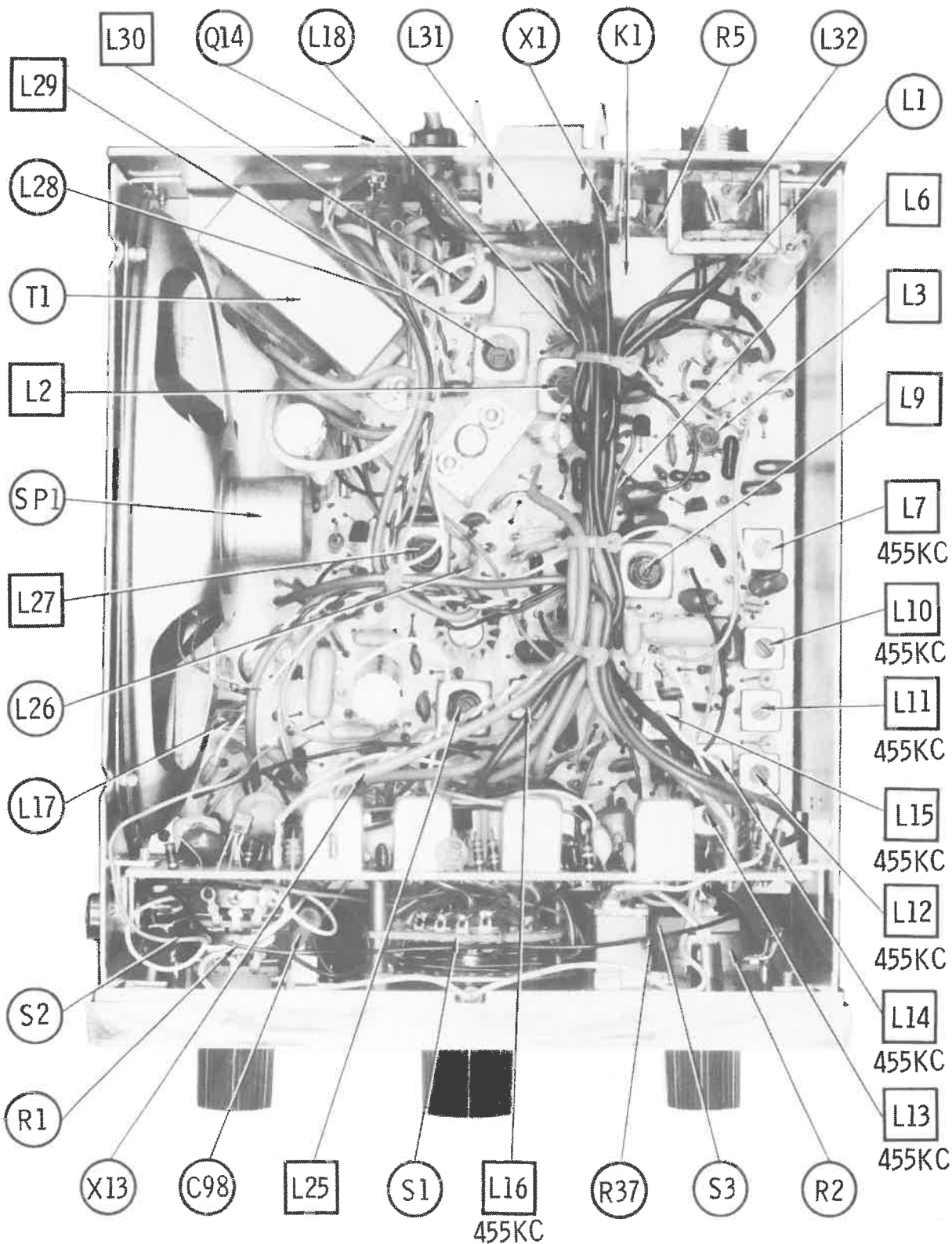
INDICATOR	ADJUST	REMARKS
RF Wattmeter or Field Strength meter.	L20,L21, L22,L23, L24,L25, L27,L29, L30	Key transmitter and adjust for maximum.
RF Wattmeter	L27,L29, L30	If output exceeds 4.0 watts, reduce output by turning L27 clockwise. Repeat L29 and L30, repeat adjustment of L27 and peaking of L29 and L30 until output is about 3.7 watts. Rotate L29 Clockwise to reduce power about 100mw and rotate L30 Counterclockwise to reduce power an additional 100mw. Note: L29 and L30 must always be repeated after adjustment of L27.

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46208

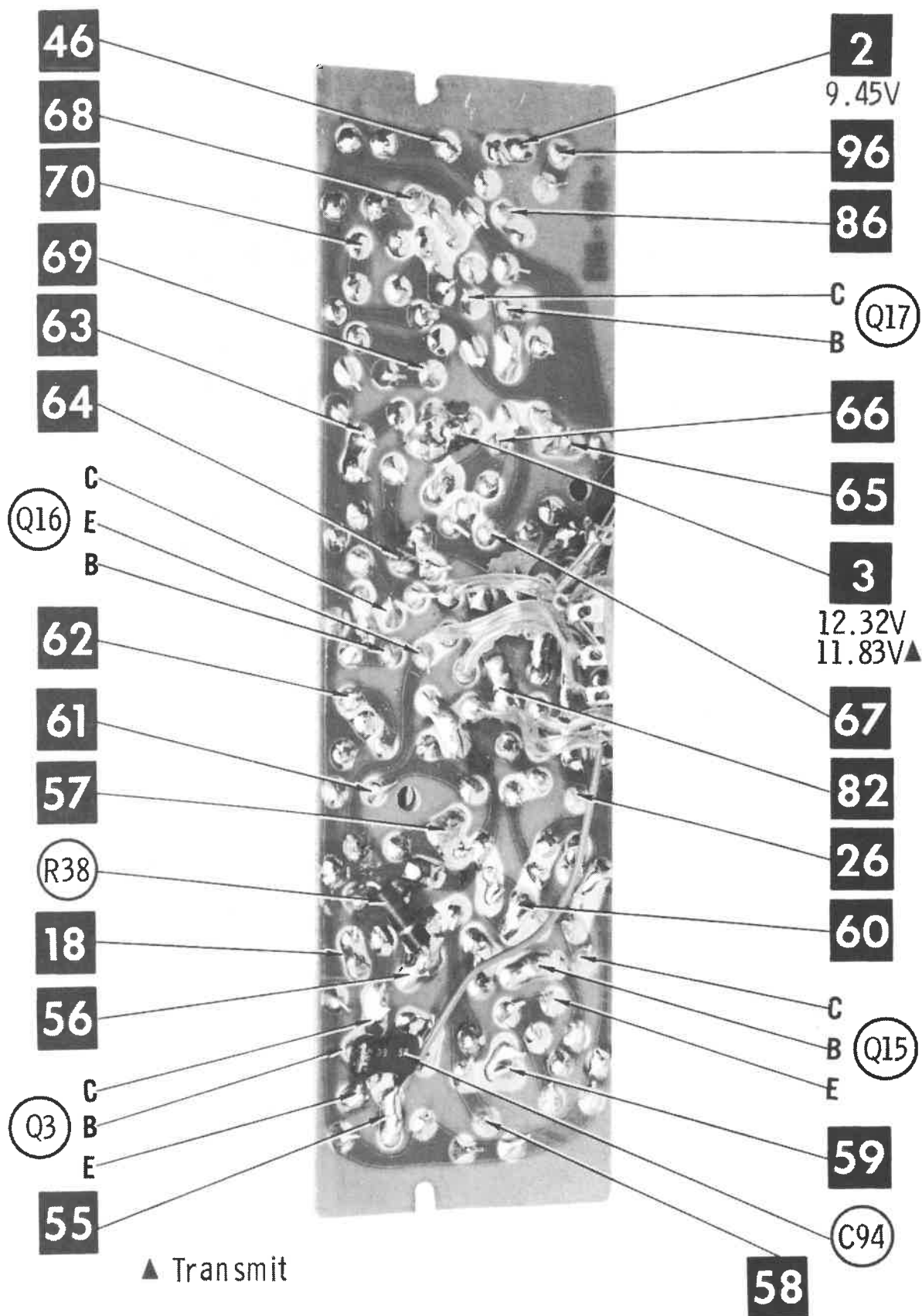
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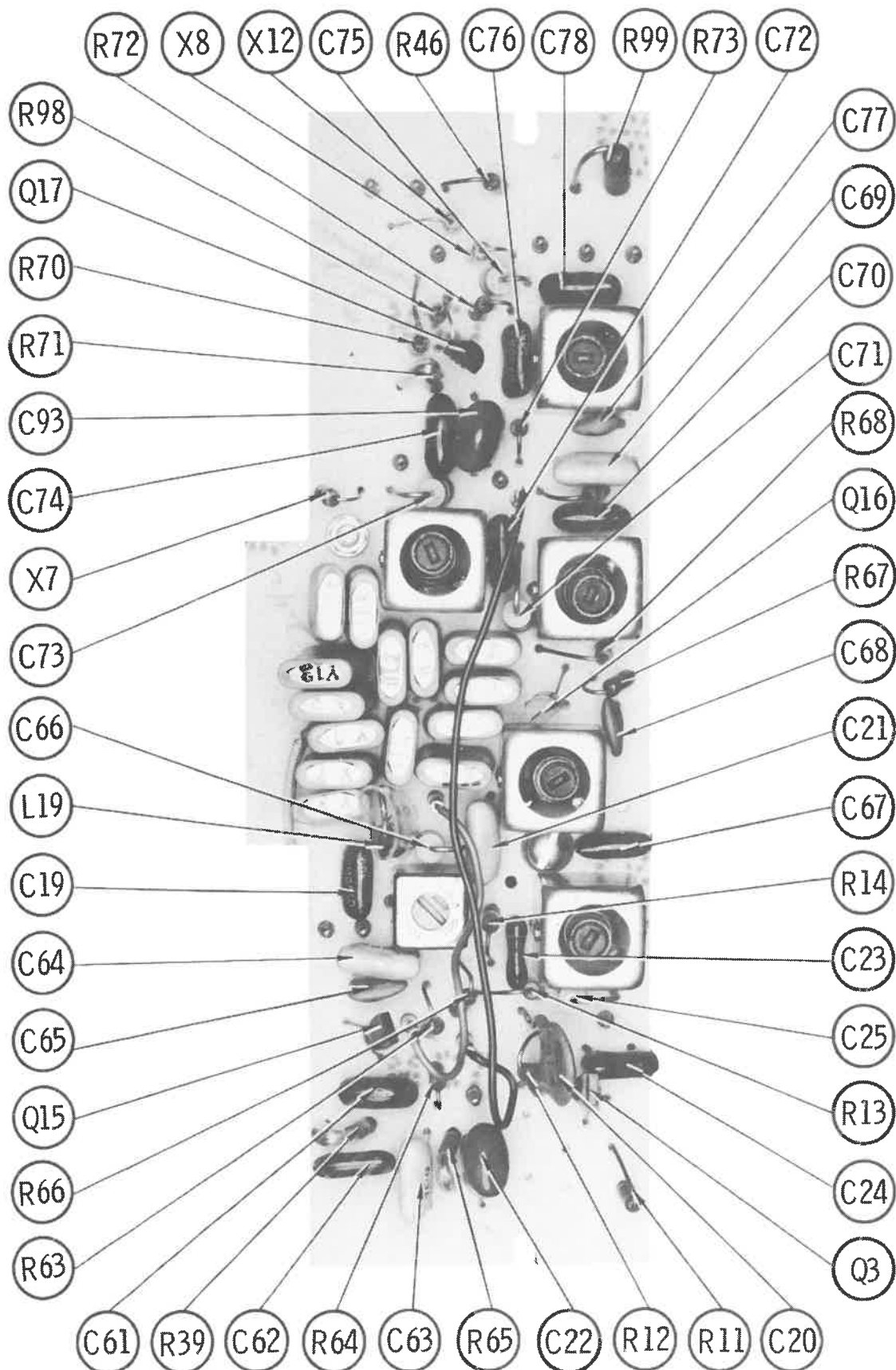
PAGE MODEL 2300 (LATE PROD)

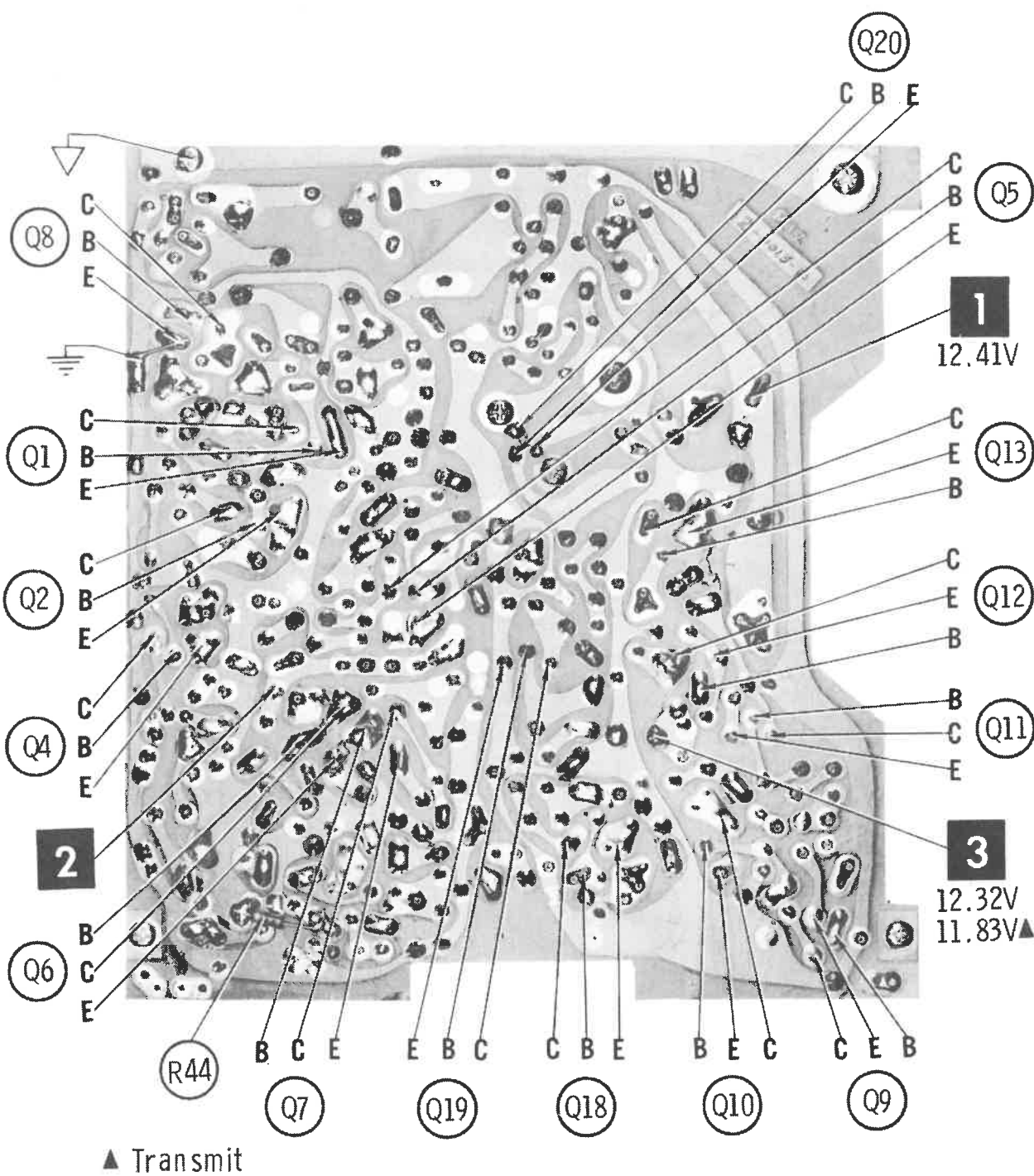


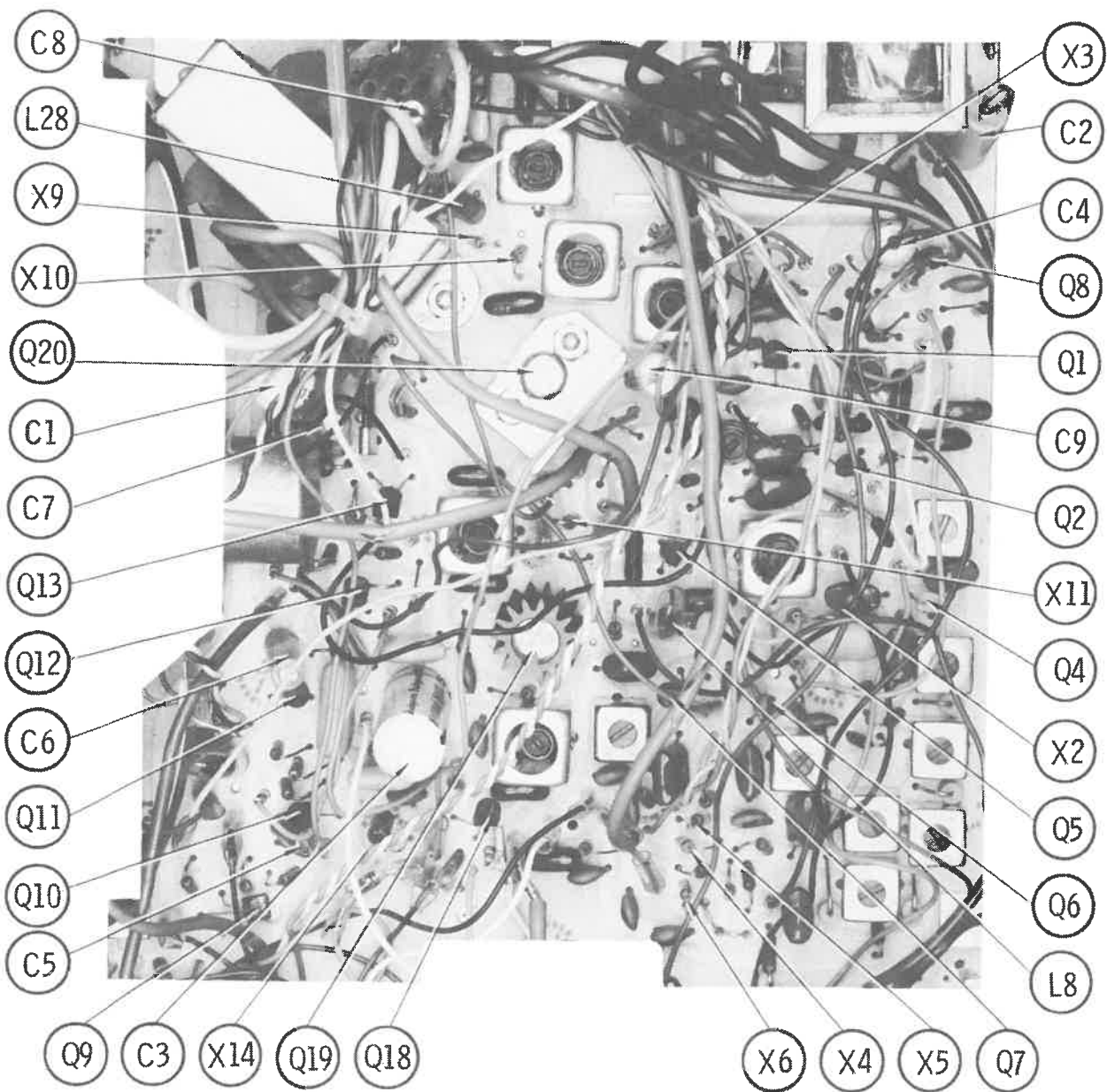


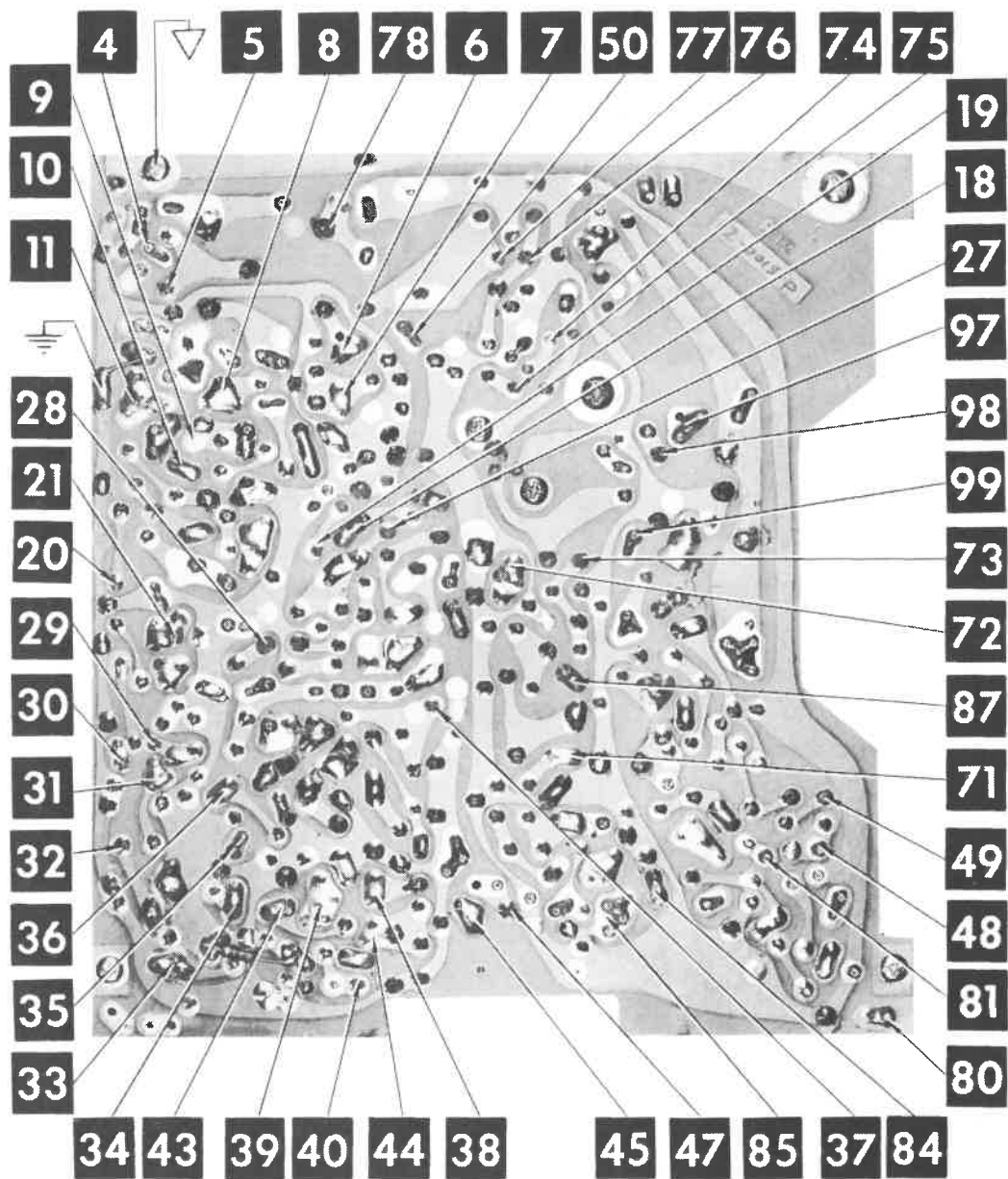
PACE MODEL 2300 (LATE PROD)

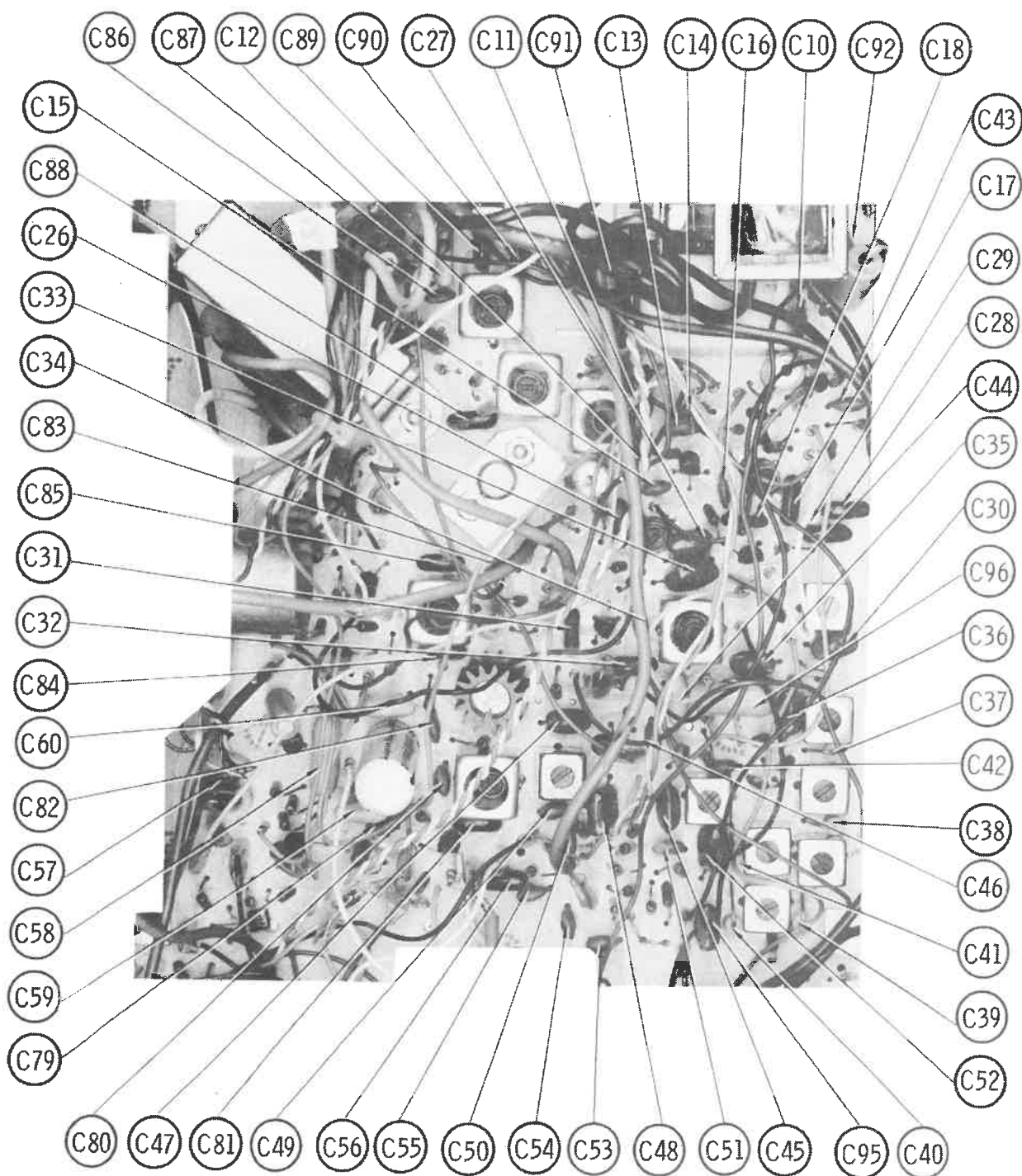


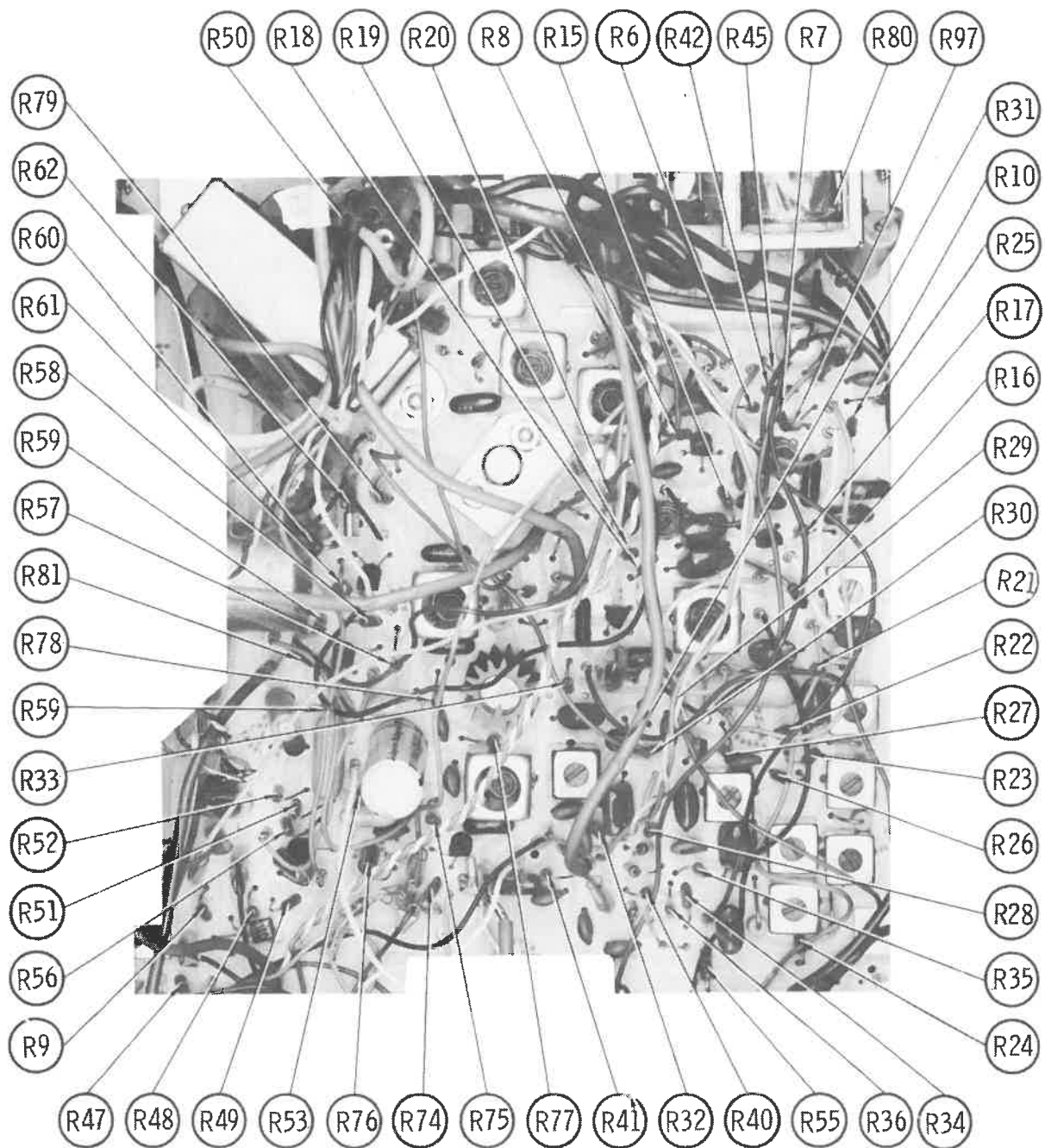












PARTS LIST AND DESCRIPTION

(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.)

SEMICONDUCTORS

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.
Q1	MPS6507/13-0065	GE-20	TR-21	PTC123	HEP720	SK3018	RT113	ECG 108
Q2	MPS3693/13-0062	GE-20	TR-21	PTC121	HEP738	SK3018	RT102	ECG 123A
Q3	MPS3693/13-0062	GE-20	TR-21	PTC121	HEP738	SK3018	RT102	ECG 123A
Q4	MPS3693/13-0062	GE-20	TR-21	PTC121	HEP738	SK3018	RT102	ECG 123A
Q5	MPS6534/13-0061	GE-21	TR-19	PTC103	HEP716	SK3114	RT115	ECG 159
Q6	MPS3693/13-0062	GE-20	TR-21	PTC121	HEP738	SK3018	RT102	ECG 123A
Q7	MPS3693/13-0062	GE-20	TR-21	PTC121	HEP738	SK3018	RT102	ECG 123A
Q8	MPS6514/13-0022	GE-20	TR-21	PTC121	HEP728	SK3018	RT102	ECG 123A
Q9	MPS6534/13-0061	GE-21	TR-19	PTC103	HEP716	SK3114	RT115	ECG 159
Q10	MPS3693/13-0062	GE-20	TR-21	PTC121	HEP738	SK3018	RT102	ECG 123A
Q11	MPS6553/13-0041	GE-20	TR-21	PTC121	HEP54	SK3122	RT102	ECG 123A
Q12	MPS3694/13-0063	GE-20	TR-21	PTC121	HEP738	SK3122	RT102	ECG 123A
Q13	MPS6534/13-0061	GE-21	TR-19	PTC103	HEP716	SK3114	RT115	ECG 159
Q14	SJ2095(2N3054)/13-0014	GE-23	TR-23	PTC112	HEP241	SK3026		ECG 152
Q15	MPS3693/13-0062	GE-20	TR-21	PTC121	HEP738	SK3018	RT102	ECG 123A
Q16	MPS6507/13-0065	GE-20	TR-21	PTC123	HEP720	SK3018	RT113	ECG 108
Q17	MPS3693/13-0062	GE-20	TR-21	PTC121	HEP738	SK3018	RT102	ECG 123A
Q18	MPS3646/13-0064	GE-20	TR-21	PTC123	HEP53	SK3046	RT113	ECG 108
Q19	MRF8004/13-0079				HEPS3001	SK3048		
Q20	MRF8004/13-0079				HEPS3001	SK3048		
X1	1N4001/13-0050	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPRO052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117 ECG 5125
X2	MZ1000-13(10)/13-0002				HEPZ2514			
X3	1N295X/13-0004	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
X4	1N295X/13-0004	1N34AS (7)	1N34A (7)	PTC207 (7)	HEP134 (7)	SK3087 (7)		ECG 110 (6)
X5	1N295X/13-0004							
X6	1N3600(1N456)/13-0003	GE-300	D200	PTC214	HEPRO600	SK3100	RT218	ECG 177
X7	1N295X/13-0004	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
X8	1N295X/13-0004	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
X9	1N3600(1N456)/13-0003	GE-300	D200	PTC214	HEPRO600	SK3100	RT218	ECG 177
X10	MZ500-39(10)/13-0029							
X11	MZ1000-26(10)/13-0017							ECG 5143
X12	1N295X/13-004	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
X13	1N3600(1N456)/13-0003	GE-300	D200	PTC214	HEPRO600	SK3100	RT218	ECG 177
X14	1N3600(1N456)/13-0003	GE-300	D200	PTC214	HEPRO600	SK3100	RT218	ECG 177

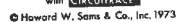
(6) Matched Pair. (7) Two Required Select Matched Pair. (10) Zener

PAGE MODEL 2300 (LATE PROD)

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA				
			MFR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	SPRAGUE PART No.
C1	1000	15V		RME-N-E-1000	EA15-1000	WBR1000-16	TC1501B
C2	50	15V		ME-3-E-050	EA15-50	WBR50-25	MTA50E15
C3	1000	15V		RME-N-E-1000	EA15-1000	WBR1000-16	TC1501B
C4	50	15V		ME-3-E-050	EA15-50	WBR50-25	MTA50E15
C5	47	6V		ME-2-B-050	EA6-50	WBR50-25	MTA50D6
C6	50	15V		RME-E-E-050	EP15-50	WBR50-25	MTV50CB15
C7	50	15V		RME-E-E-050	EP15-50	WBR50-25	MTV50CB15
C8	2	25V		ME-1-G-002	EA30-2	WBR2-50	MTA2D50
C9	50	15V		ME-3-E-050	EA15-50	WBR50-25	MTA50E15
C99	50	15V		RME-E-E-050	EP15-50	WBR50-25	MTV50CB15

(CONTINUED ON PAGE 96)



PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C10	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C11	33 NPO		CCTO-330	DTZ-33	NPO33	CN0433	10TCC-Q33
C12	39 5%		DM-15-390J	CPR-39J	CD15ED390J03	SX439	
C13	22 NPO		CCTO-220	DTZ-22	NPO22	CN0422	10TCC-Q22
C14	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C15	.022						10TSS-S22
C16	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C17	100 5%		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C18	250 100V 10%		DM-19-251J				
C19	50 5%		DM-15-500J				
C20	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C21	.022 250V		4DP-2-223		DPMS6S22	PVC6122	4PS-S22
C22	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C23	.022 100V 10%						
C24	68 10%		DM-15-680J	CPR-68J	CD15ED680J03	SX468	424MC680J501
C25	6.8			DTZ-6R8	NPO6P8	CN0568	10TCC-V68
C26	220 5%		DM-19-221J	CPR-220J	CD15FD221J03	SX322	424ME220J501
C27	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C28	120 5%		DM-15-121J	CPR-120J	CD15FD121J03	SX312	424MC120J501
C29	22 5%		DM-15-220J	CPR-22J	CD15ED220J03	SX422	10TCC-V22
C30	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C31	620 100V 5%		DM-19-621J	CPR-620J	CD19FD621J03	SX362	MS-362
C32	120 5%		DM-15-121J	CPR-120J	CD15FD121J03	SX312	424MC120J501
C33	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C34	68			DTZ-68		CN0468	10TCC-Q68
C35	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C36	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C37	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C38	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C39	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C40	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C41	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C42	150		CCD-151	DD-151	GP150	GP315	10TS-T15
C43	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C44	.047 250V		4DP-3-473		DPMS6S47	PVC4147	4PS-S47
C45	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C46	300		CCD-301	DM-301	GP300	GP330	10TS-T30
C47	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C48	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C49	68			DTZ-68		CN0468	10TCC-Q68
C50	150		CCD-151	DD-151	GP150	GP315	10TS-T15
C51	600 10%			DD-601		GP360	
C52	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C53	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C54	250 10%		CCD-251	DD-251		GP325	10TS-T25
C55	250 10%		CCD-251	DD-251		GP325	10TS-T25
C56	360 10%		DM-19-361J	CPR-360J	CD15FD360J03	SX336	MS-336
C57	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C58	.22 250V		4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C59	.047 250V		4DP-3-473		DPMS6S47	PVC4147	4PS-S47
C60	.022 250V		4DP-2-223				4PB-S22
C61	620 300V 5%		DM-19-621J	CPR-620J	CD19FD621J03	SX362	MS-362
C62	100 5%		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1060J501
C63	.022 250V		4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C64	.022 250V		4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C65	24 NPO 5%		CCTO-240				
C66	1.5			DTZ-1R5	NPO1P5	CN0515	10TCC-V15
C67	91 10%		DM-15-910J	CPR-91J		SX491	MS-491
C68	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C69	.022 250V		4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C70	82 10%		DM-15-820J	CPR-82J	CD15SD820J03	SX482	424MC820J501
C71	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C72	68 10%		DM-15-680J	CPR-68J	CD15ED680J03	SX468	424MC680J501
C73	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C74	620 300V 5%		DM-19-621J	CPR-620J	CD19FD621J03	SX362	MS-362
C75	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C76	560 5%		DM-19-561J	CPR-560J	CD19FD561J03	SX356	424ME560J501
C77	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C78	470 10%		DM-19-471J	CPR-470J	CD15FD471J03	SX347	424ME470J501
C79	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C80	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C81	68 10%		DM-15-680J	CPR-68J	CD15ED680J03	SX468	424MC680J501
C82	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C83	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C84	560 10%		DM-19-561J	CPR-560J	CD19FD561J03	SX356	424ME560J501
C85	160 10%		DM-19-161J	CPR-160J		SX316	MS-316
C86	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C87	.002 250V		6DP-1-202	CPR-2000J	DPMS-6D2	PVC622	6PS-D20
C88	120 10%		DM-15-121J	CPR-120J	CD15FD121J03	SX312	424MC120J501
C89	91 10%		DM-15-910J	CPR-91J		SX491	MS-491
C90	13 5%						
C91	100 5%		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C92	.002		CCD-202	DD-202	GP2000	GP220	10TS-D20
C93	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C94	620 300 5%		DM-19-621J	CPR-620J	CD19FD621J03	SX362	MS-362
C95	.1 100V		1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C96	.22 250V		4DP-5-224		DPMS4P22	PVC4022	4PS-P22

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	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1a	Volume	2meg	(15-0055)	F2-2meg(1), R2-1meg, SF102,CPL-2		B13-139,B13-137, SK1(1),QCM or [BU11,CF27,CR26, SS1,SS7A,DC1]*	P26A(1),RU16A, CS3500
b	"PA" Volume	1meg				B17-114,SK1(1), 76-1 or [BU11, CF34,SS1,GC]*	
R2	Squelch/Switch	5000	(15-0034)	F3-5000(1), SF102,KR-1	NP-5000-V(1), UP-B-400,NWE-12		RU53R(1),SN1125, US41

* "SNAPTROL"

(1) Use original Nylon Tab Mount.

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.
R62	.5 ohm 2W	WS.47					

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	RF Choke (3.3uh)			74F336AP	T816
L2	Rec. Antenna Input	17-0019			
L3	RF Coil	17-0018			
L5	35MC Injection	17-0028			
L6	Rec. Mixer	17-0025			
L7	7MC IF	16-0007			
L8	RF Choke (33uh)			74F335AI	
L9	Rec. Oscillator	17-0017			
L10	Input IF	16-0005			
L11	Interstage IF	16-0003			
L12	Interstage IF	16-0003			
L13	Interstage IF	16-0003			
L14	Interstage IF	16-0003			
L15	Interstage IF	16-0006			
L16	Output IF	16-0013			
L17	RF Choke (33uh)			74F335AI	
L18	RF Choke (3.3uh)			74F336AP	T816
L19	RF Choke (4.7uh)			74F476AP	
L20	Xmtr. Osc. Input	16-0007			
L21	Xmtr. 8MC Bandpass	17-0017			
L22	Xmtr. Mixer	17-0032			
L23	Xmtr. Input	17-0025			
L24	Xmtr. Interstage	17-0025			
L25	Xmtr. Interstage	17-0028			
L26	RF Choke (3.3uh)			74F336AP	T816
L27	Xmtr. Output	17-0021			
L28	RF Choke (3.3uh)			74F336AP	T816
L29	Pi Network	17-0020			
L30	Pi Network	17-0021			
L31	TVI Trap	17-0015			

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.	
L32	.920A	.4	1.9mh	16-0021				

PAGE MODEL 2300 (LATE PROD)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	3.2	3.2	16-0016				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	2" x 6" PM, 3.2 ohms	22-0007	26A07	

FUSE DEVICES

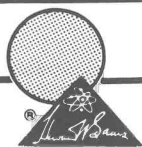
ITEM No.	DESCRIPTION	REPLACEMENT DATA							
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	
F1	2-1/2A 250V Quick Acting			AGC 2-1/2	HDJ	31202.5	155020		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	21-0005A	Xmit & Rec.
M5	"S" Meter	36-0007	
S1	Switch		Channel Selector
S2	Switch	15-0010-2	CB-PA
S3	Switch	15-0010-2	Local-Distance
Y1	Crystal		8.006MC
Y2	Crystal		7.996MC
Y3	Crystal		7.986MC
Y4	Crystal		7.966MC
Y5	Crystal		8.461MC
Y6	Crystal		8.451MC
Y7	Crystal		8.441MC
Y8	Crystal		8.421MC
Y9	Crystal		34.971MC
Y10	Crystal		35.021MC
Y11	Crystal		35.071MC
Y12	Crystal		55.121MC
Y13	Crystal		35.171MC
Y14	Crystal		35.221MC

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	22-0005	



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 Cobra 131

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

GC ELECTRONICS

CV1 Thru CV4, CV6 Thru CV20, T9 Thru T11 #8276, 8277, 8290

L1, L2, T1 Thru T3, T5 Thru T8, T13 Thru T15 #8606, 9440

L3 Thru L6, T16 #8868, 9089

B & K MODEL COBRA 131

RECEIVER (AM)

Connect an AC VTVM across speaker voice coil. Set Squelch control fully counterclockwise. Adjust Volume control to obtain a suitable reading.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to base of Q7 (2nd Mixer), low side to ground. Set to 455KC (Mod.).	Any	T11, T10, T9	Adjust for maximum.
High side thru .01mfd to antenna connector, low side to chassis. Set to 27.085MC (Mod.).	11	T8, T2, T1	Adjust for maximum.

RECEIVER (AM AGC)

INDICATOR	ADJUST	REMARKS
DC Voltmeter	VR301	Connect high side of meter to TP1, low side to ground. Adjust VR301 for .75 volts.

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ALIGNMENT INSTRUCTIONS (Continued)

RECEIVER (AM SQUELCH)

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to antenna connector, low side to chassis. Set to 27.085MC (Mod.).	11	VR703	Set Squelch control fully clockwise. Adjust VR703 so that the squelch breaks between 250 and 350uV.

RECEIVER (SSB)

Connect an AC VTVM across speaker voice coil. Set Squelch control fully counterclockwise. Adjust Volume control to obtain a suitable reading.			
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to base of Q2 (1st Mixer), low side to ground. Set to 7.8MC (Mod.).	Any	T6,T5, T3	Adjust for maximum.

RECEIVER (SSB AGC)

INDICATOR	ADJUST	REMARKS
DC Voltmeter	VR702	Connect high side of meter to TP1, low side to ground. Adjust VR702 for .6 volts.

RECEIVER (SSB SQUELCH)

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to antenna connector, low side to chassis. Set to 27.085MC (Mod.).	11	VR704	Set Squelch control fully clockwise. Set mode switch to USB. Adjust VR704 so that the squelch breaks between 100 and 140uV.

OSCILLATOR ADJUSTMENT

INDICATOR	ADJUST	REMARKS
Frequency Counter	T7, CV20	Connect counter to TP6 and turn T7 counterclockwise until oscillator stops, then turn clockwise one turn. Adjust CV20 for 7.3435MC.
Frequency Counter	CV10 Thru CV15	Connect counter to TP4 and adjust for correct crystal frequencies.
Frequency Counter	CV6 Thru CV9	Set the mode switch to LSB. Connect counter to point B and adjust for correct crystal frequencies.
Frequency Counter	CV16 Thru CV19	Set mode switch to USB. Connect counter to point C and adjust for correct crystal frequencies.
RF Voltmeter	T13, L1,L2	Set channel selector to Channel 11. Set mode switch to AM. Connect RF probe to TP5 and adjust for maximum.
Frequency Counter	CV3	Set mode switch to USB. Connect counter to Drain of Q12 (Buffer) and adjust for 7.7985MC.
Frequency Counter	CV4	Set mode switch to LSB. Connect counter to Drain of Q12 (Buffer) and adjust for 7.8015MC.

ALIGNMENT INSTRUCTIONS (Continued)

TRANSMITTER (AM)

INDICATOR	ADJUST	REMARKS
RF Wattmeter or Field Strength meter.	T14 Thru T16, L3 Thru L6	Key transmitter and adjust for maximum.
0-500ma DC Ammeter	L6,L5	Insert meter in collector circuit of Q19 (Final Amp). Key transmitter and adjust L6 counterclockwise and L5 clockwise to reduce collector current for 5 watts input.

TRANSMITTER (AM MODULATION ADJUSTMENT)

INDICATOR	ADJUST	REMARKS
Monitor Scope	VR601, VR502	Connect scope to the antenna connector. Set mode switch to AM. Connect audio generator to microphone input circuit and set to 2500 cps @ 5MV. Key transmitter and adjust VR601 for 50% modulation. Increase audio output 16db from 50% modulation. Adjust VR502 for 90% to 100% modulation.

TRANSMITTER (SSB)

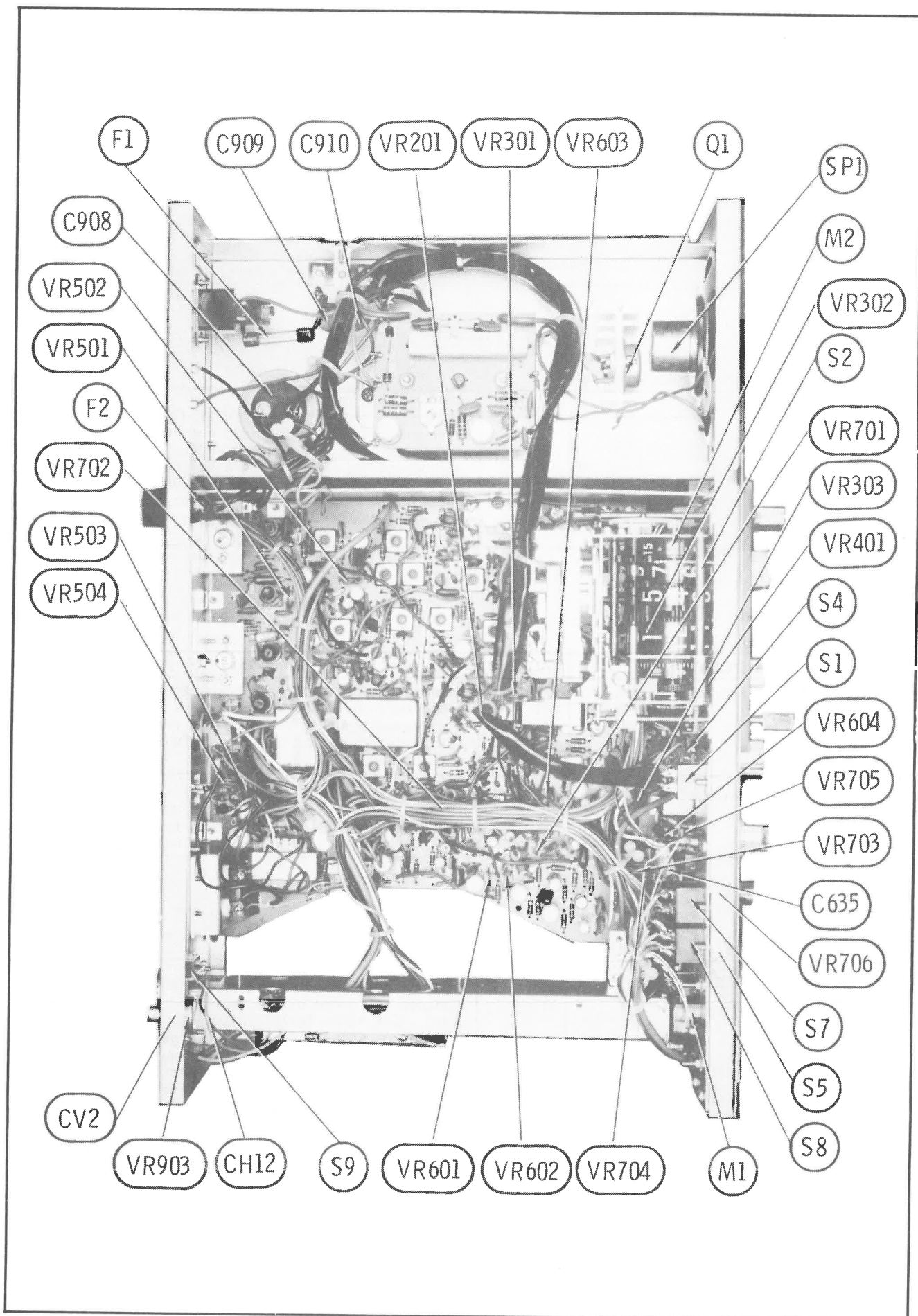
INDICATOR	ADJUST	REMARKS
RF Wattmeter and Monitor Scope	VR201, CV1	Connect the wattmeter and scope to the antenna connector. Set mode switch to USB and short microphone input to ground. Key transmitter and adjust VR201 and CV1 for MINIMUM carrier with no audio.
0-500ma DC Ammeter	VR501	Insert meter in collector circuit of Q19 (Final Amp). Set mode switch to USB and short microphone input to ground. Key transmitter and adjust VR501 for a current reading of 5ma.

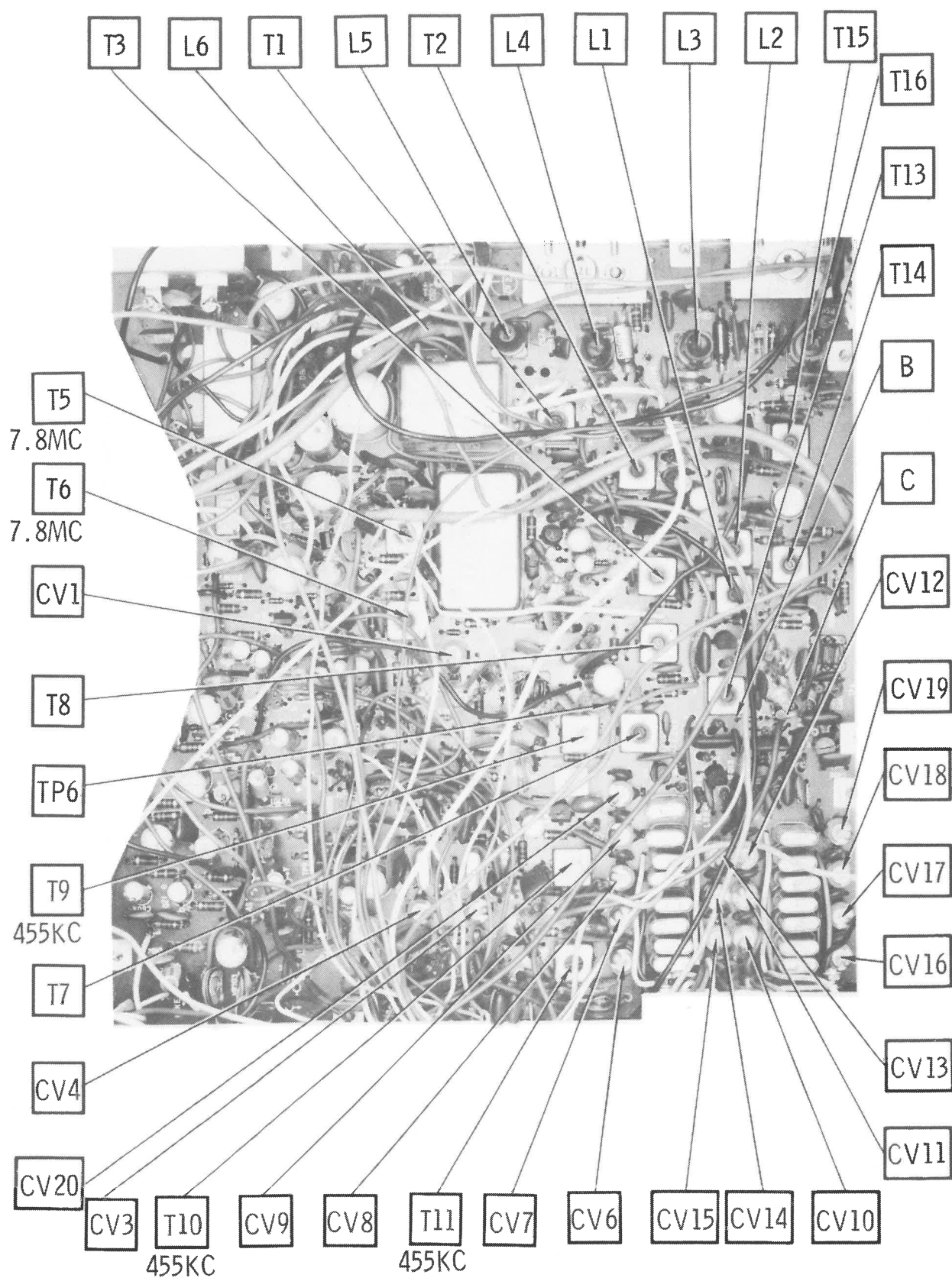
TRANSMITTER (SSB/ALC ADJUSTMENT)

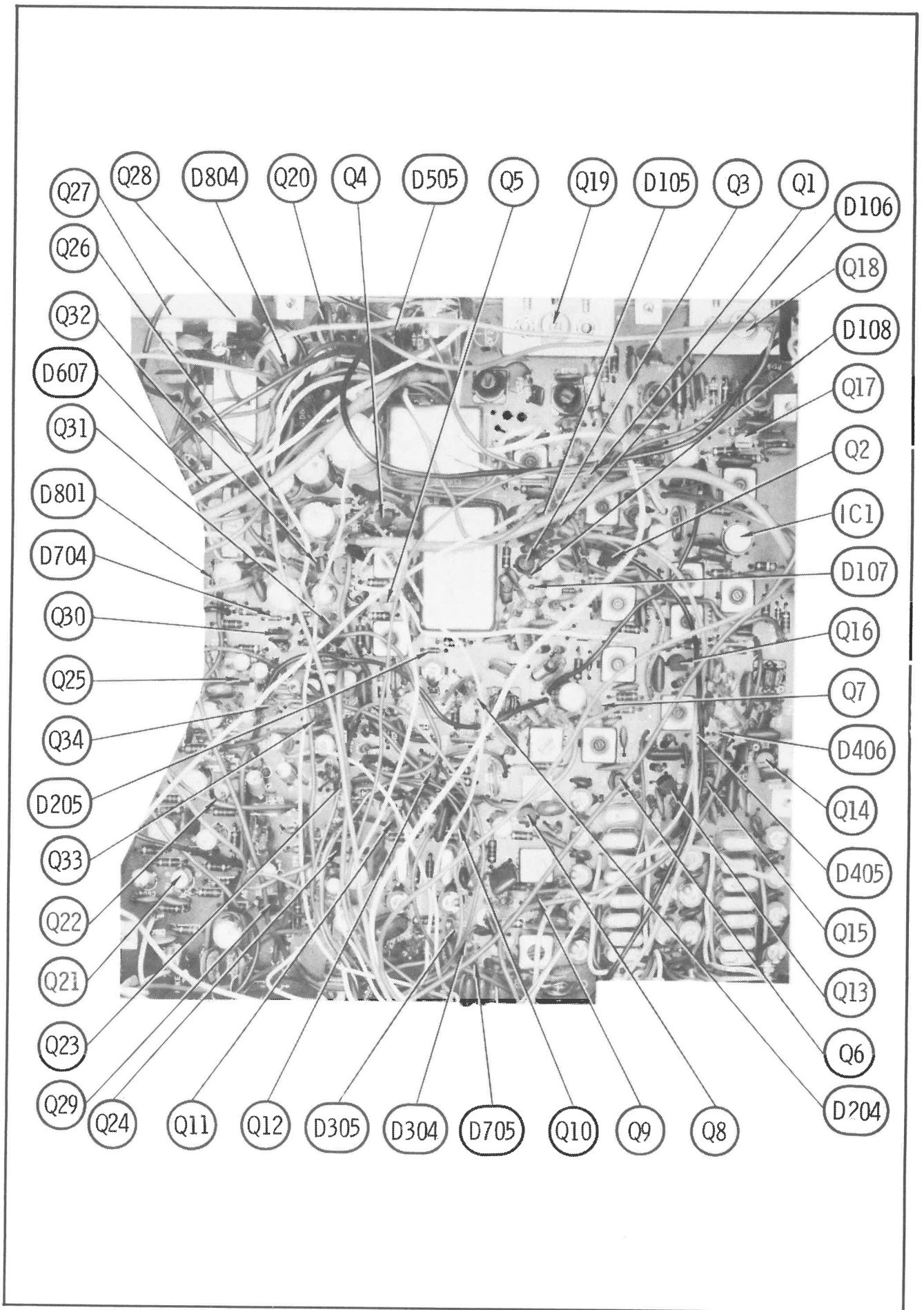
INDICATOR	ADJUST	REMARKS
Monitor Scope	VR504	Connect the scope across dummy load. Set VR504 fully clockwise. Set mode switch to USB. Connect an audio generator to the microphone input circuit and set to 2500 cps. Key transmitter and increase generator output until the waveform just reaches saturation. Adjust VR504 to decrease output by 10%.

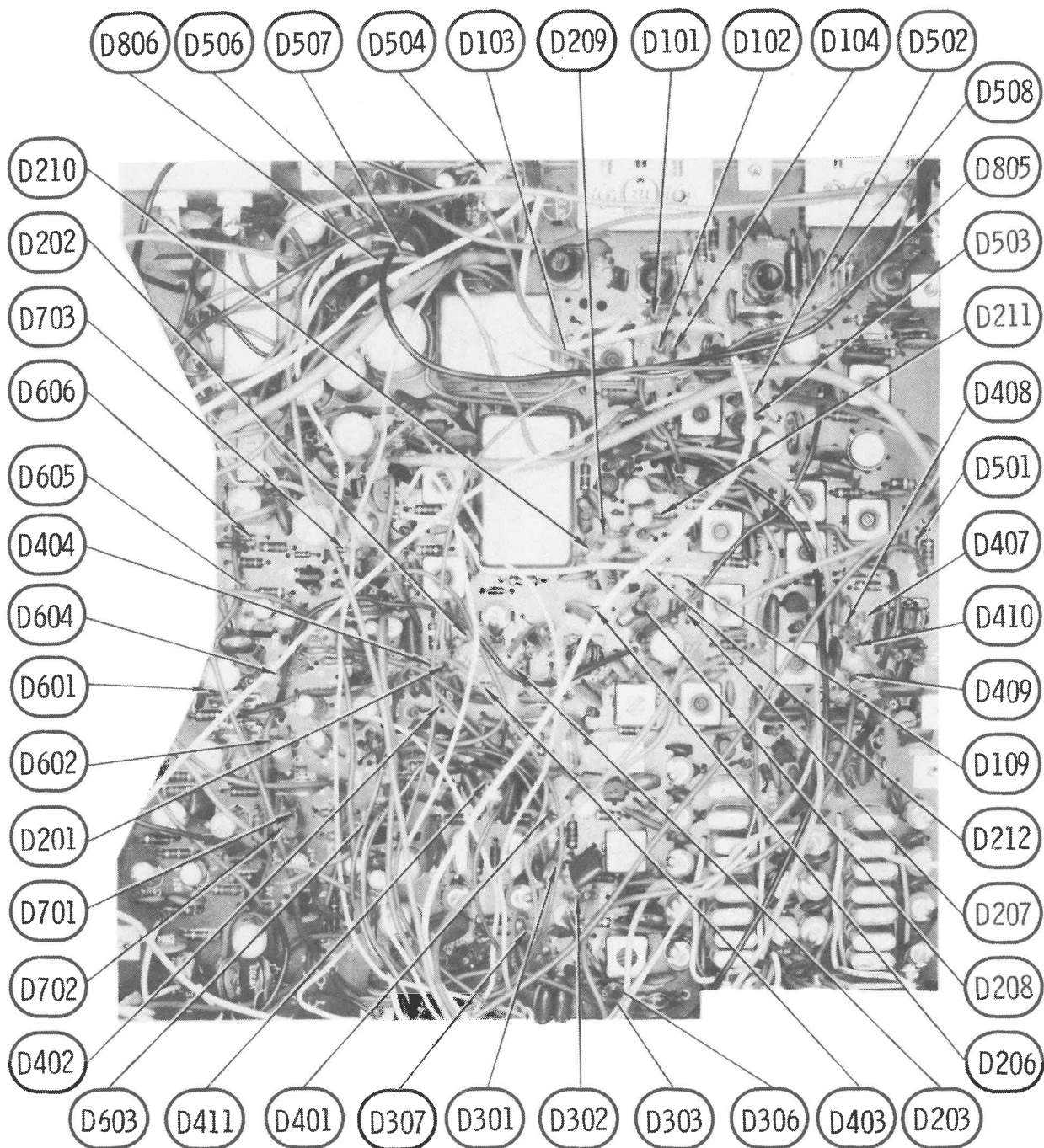
TRANSMITTER (SSB/MIC GAIN ADJUSTMENT)

INDICATOR	ADJUST	REMARKS
Modulation Meter	VR602	Connect modulation meter to antenna connector. Key the transmitter and adjust VR602 for desired microphone sensitivity.

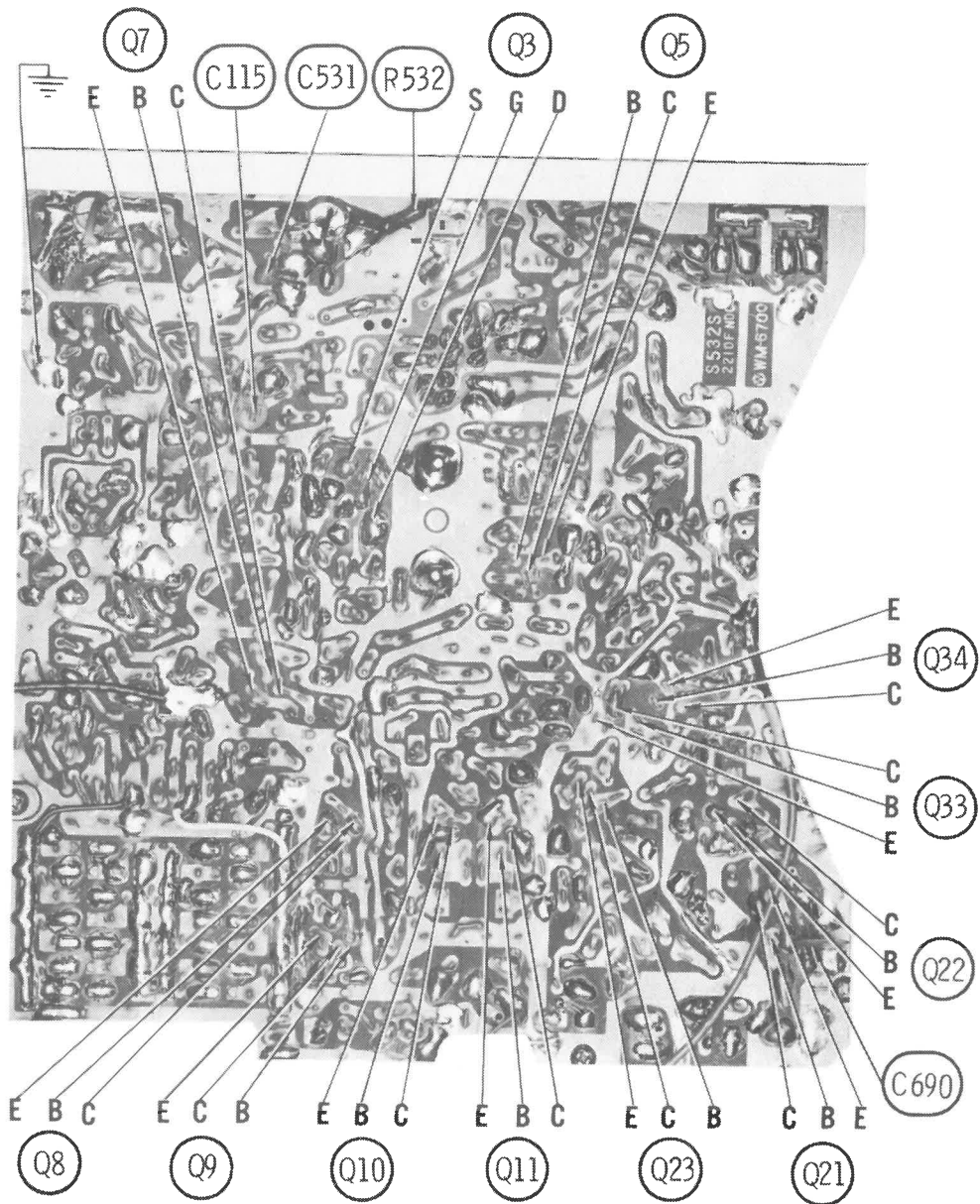


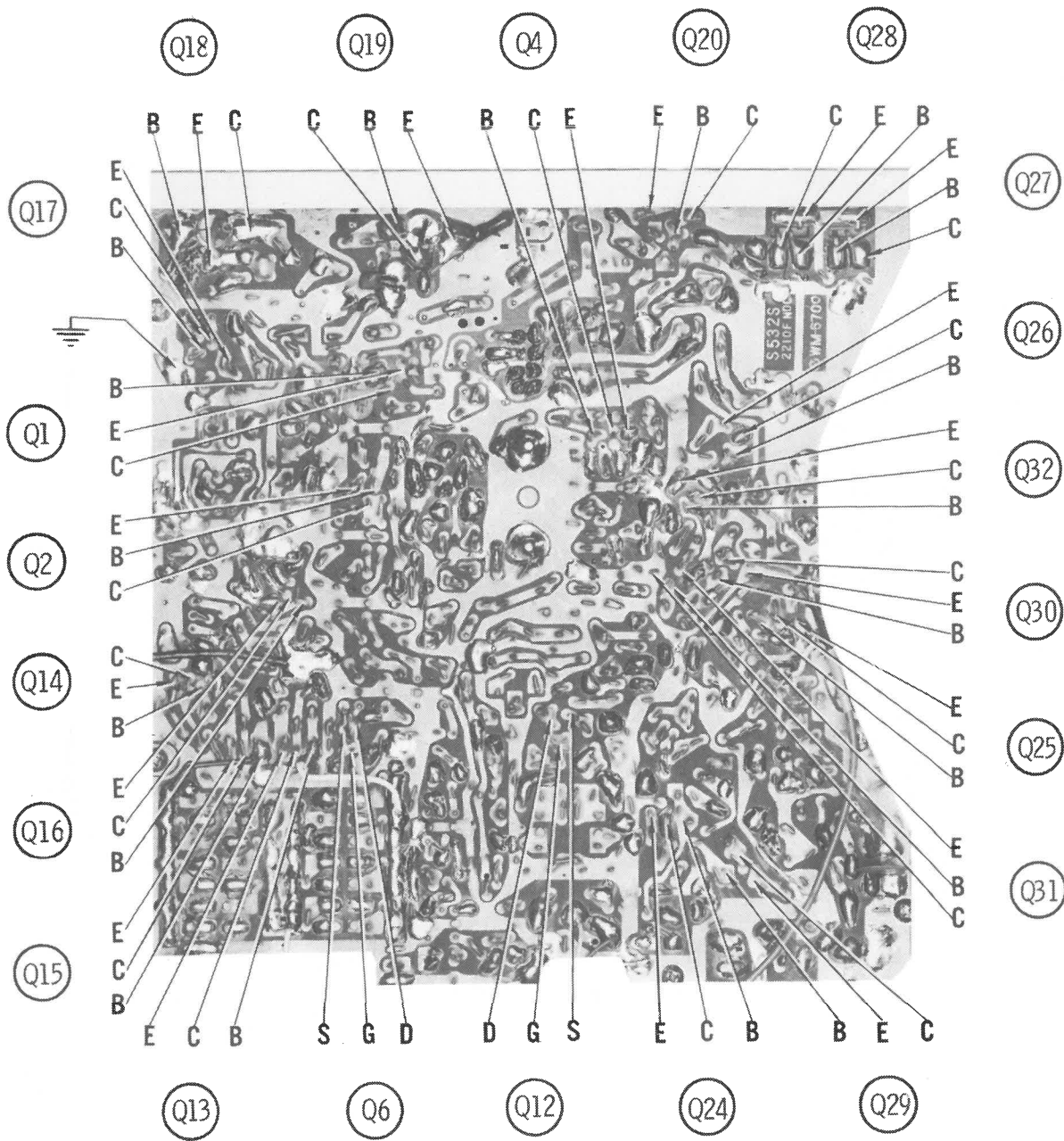


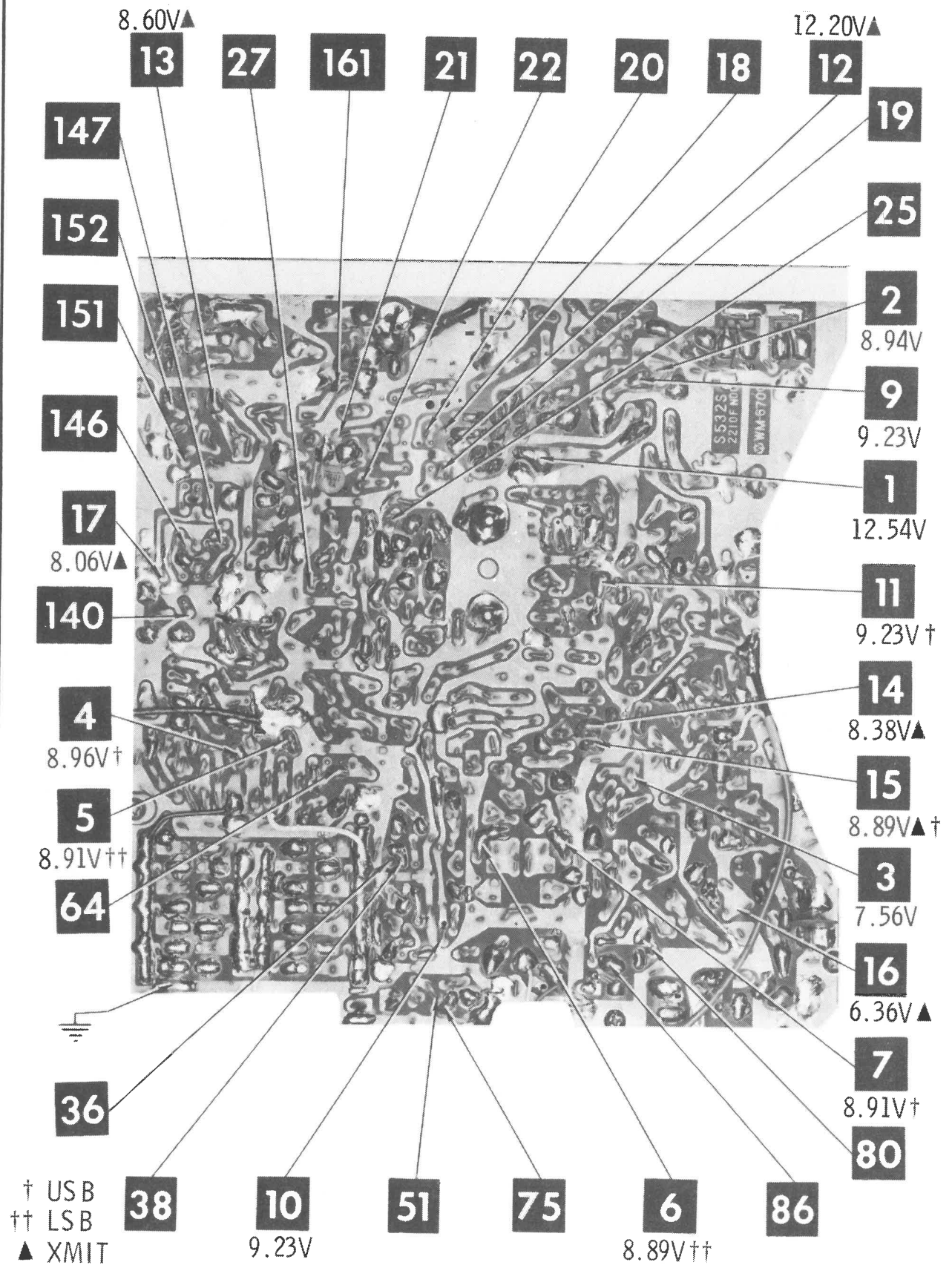


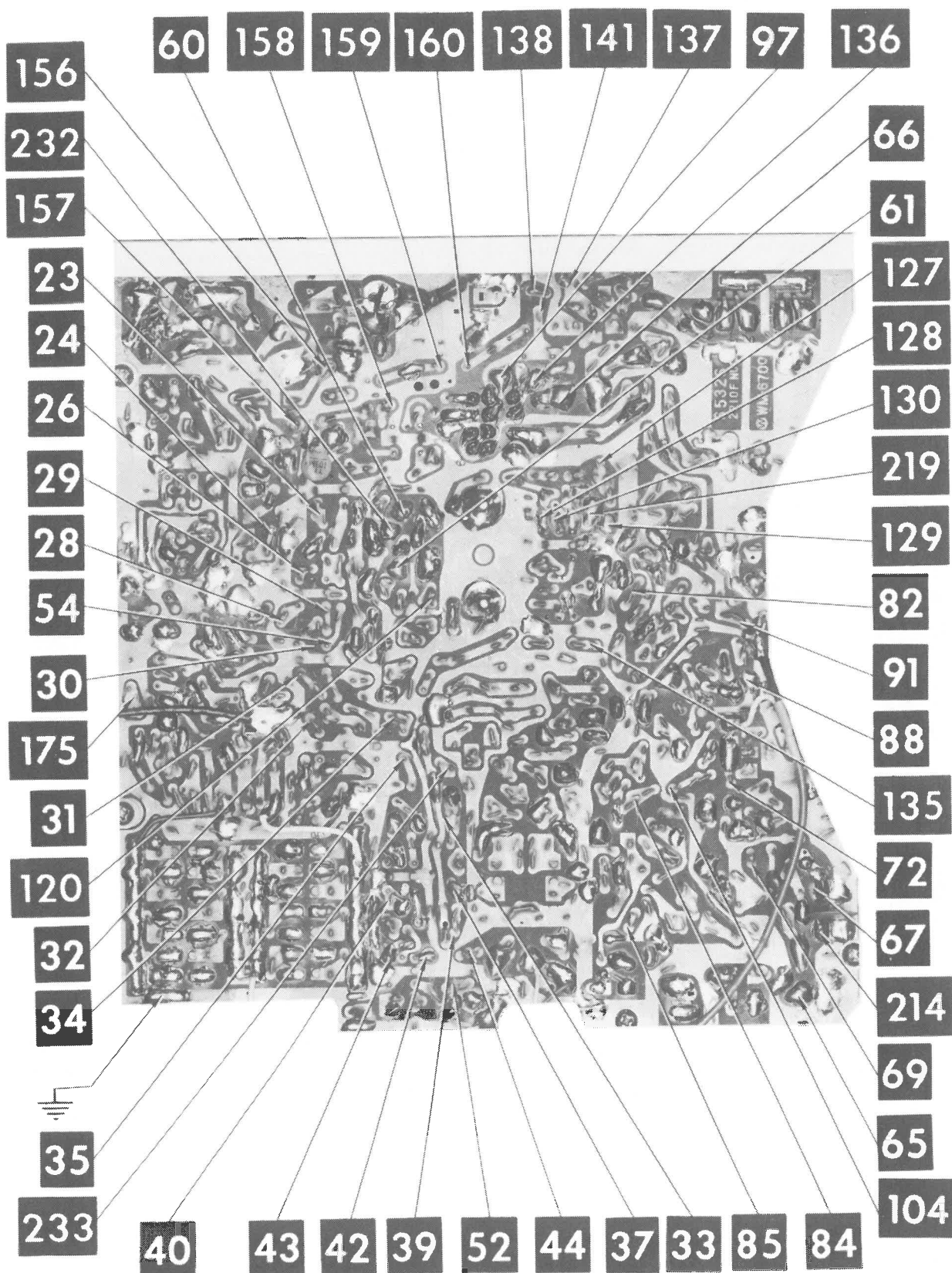


B & K MODEL COBRA 131

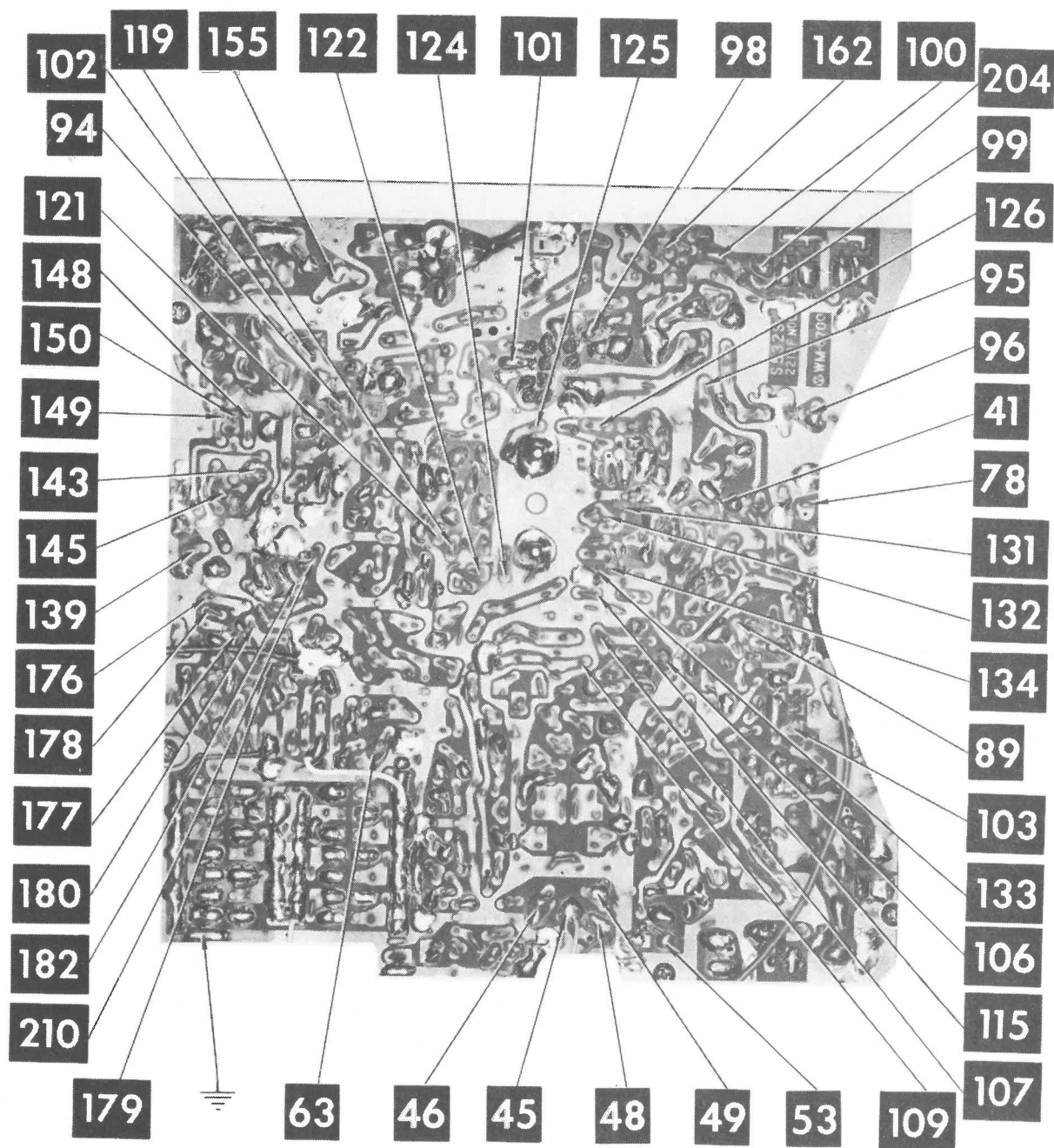


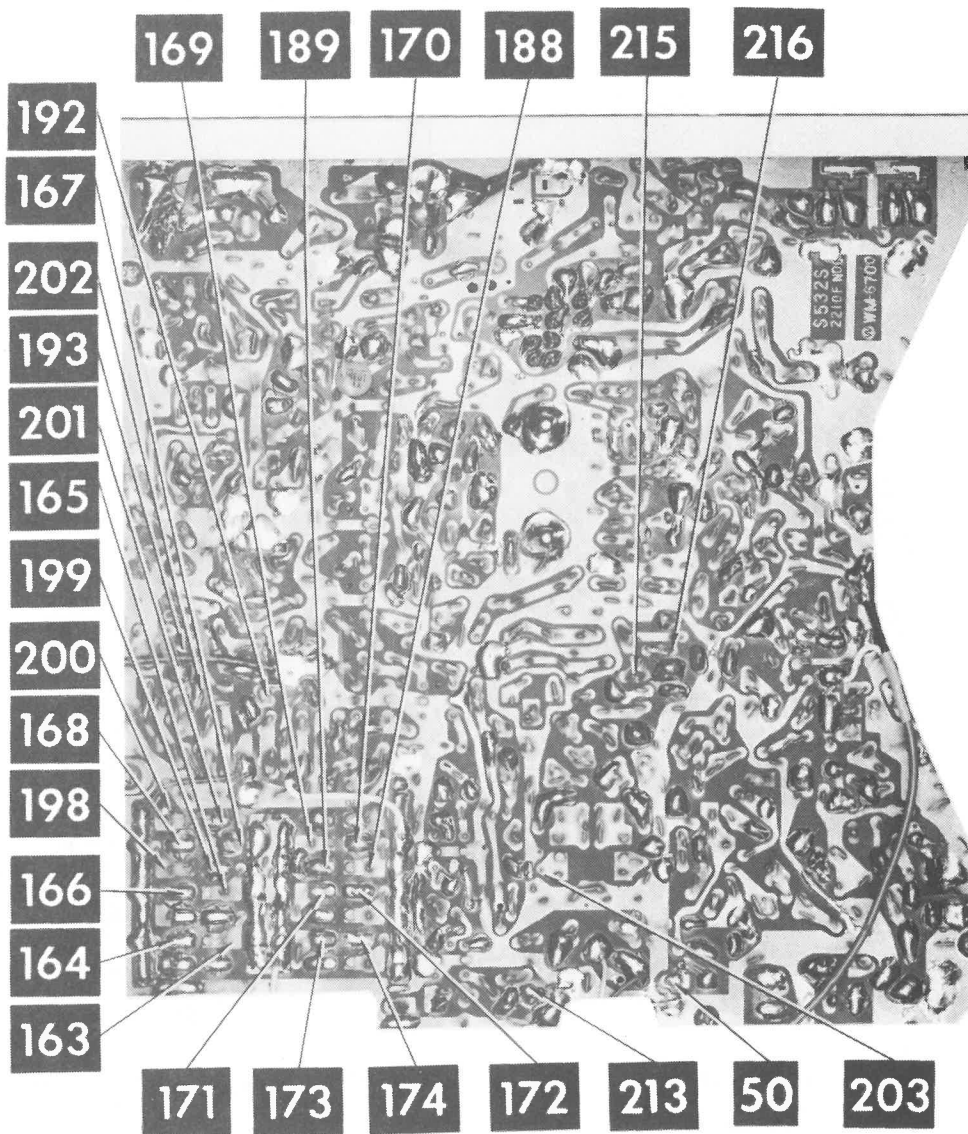




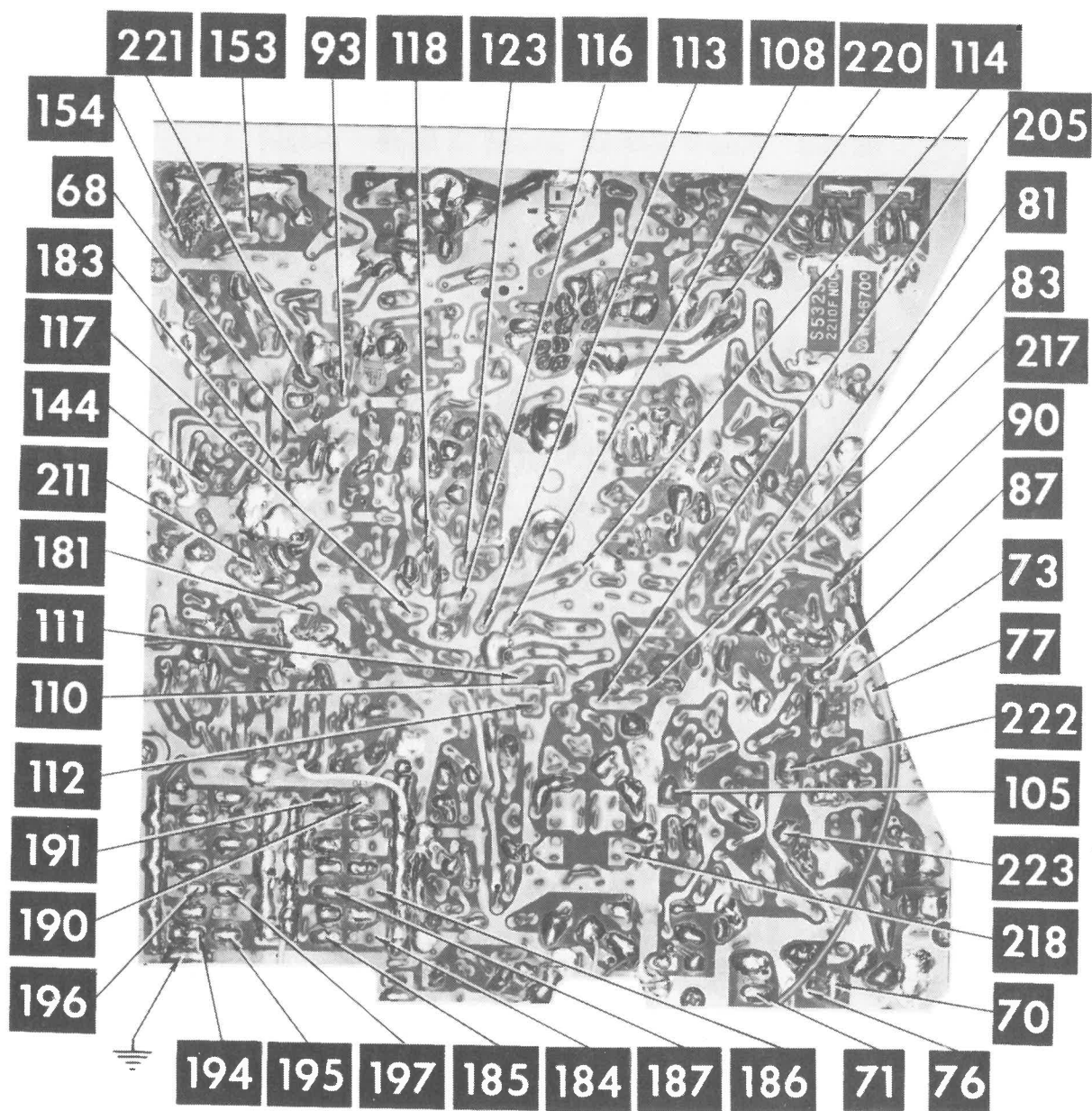


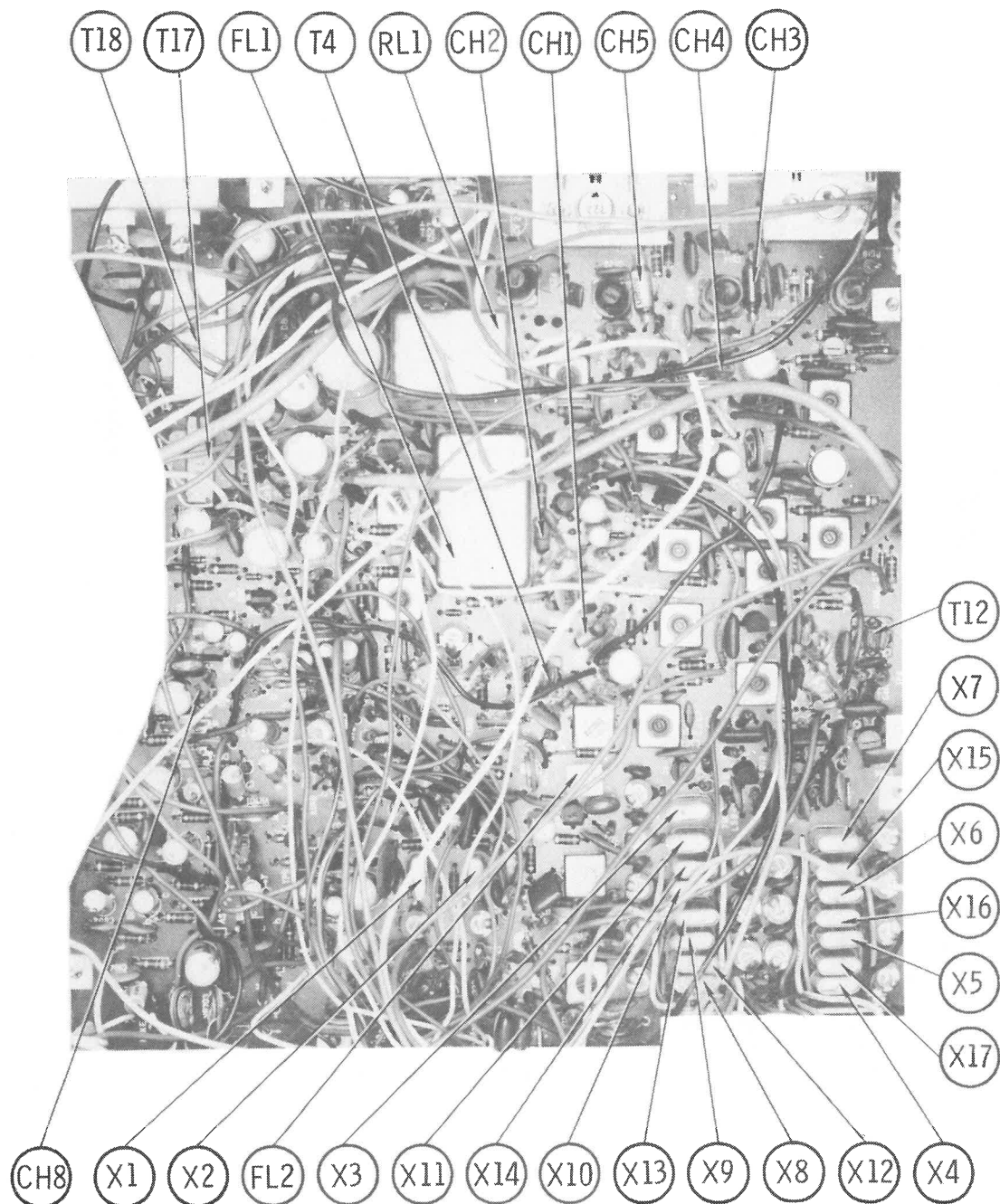
B & K MODEL COBRA 131

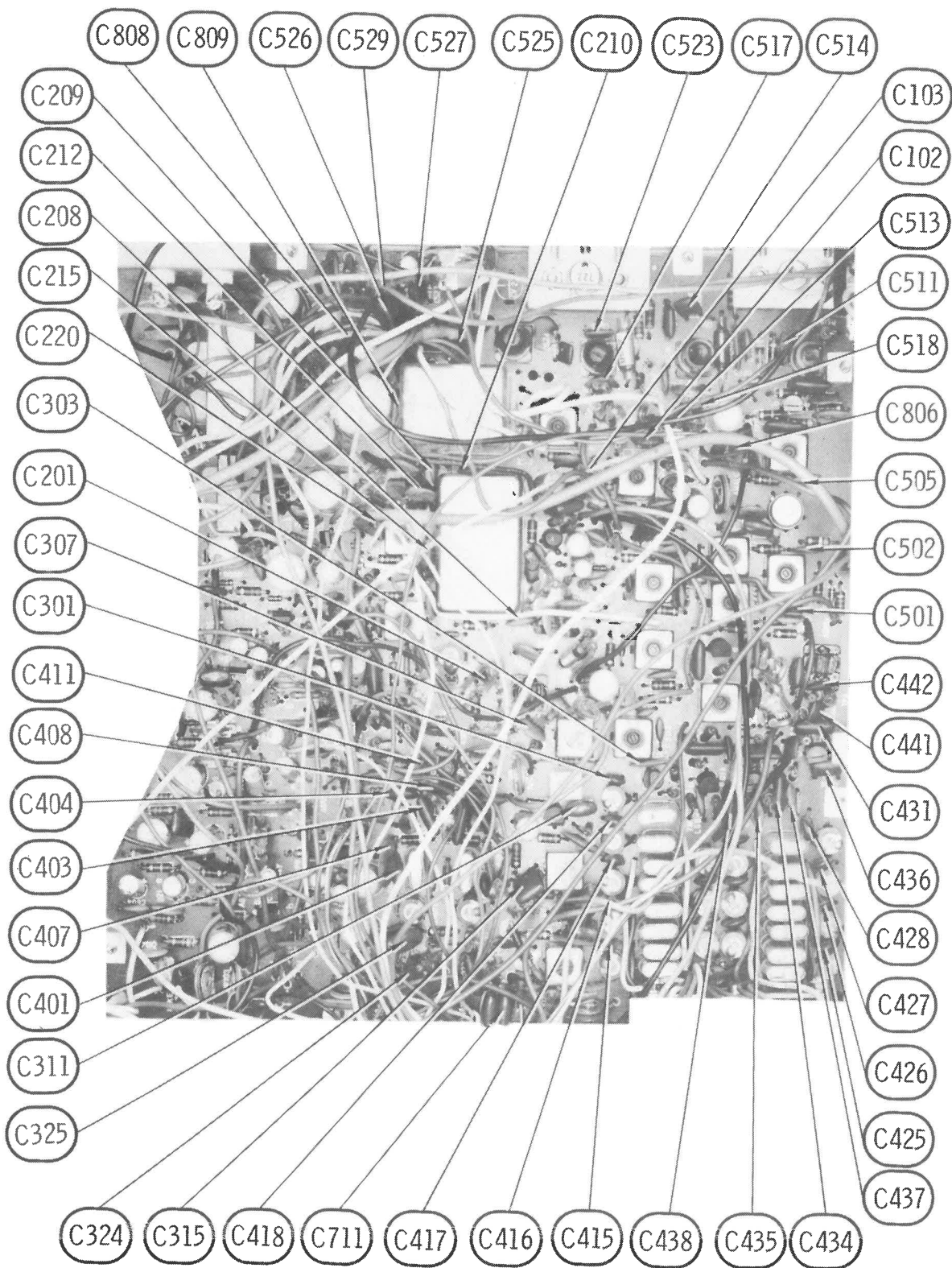


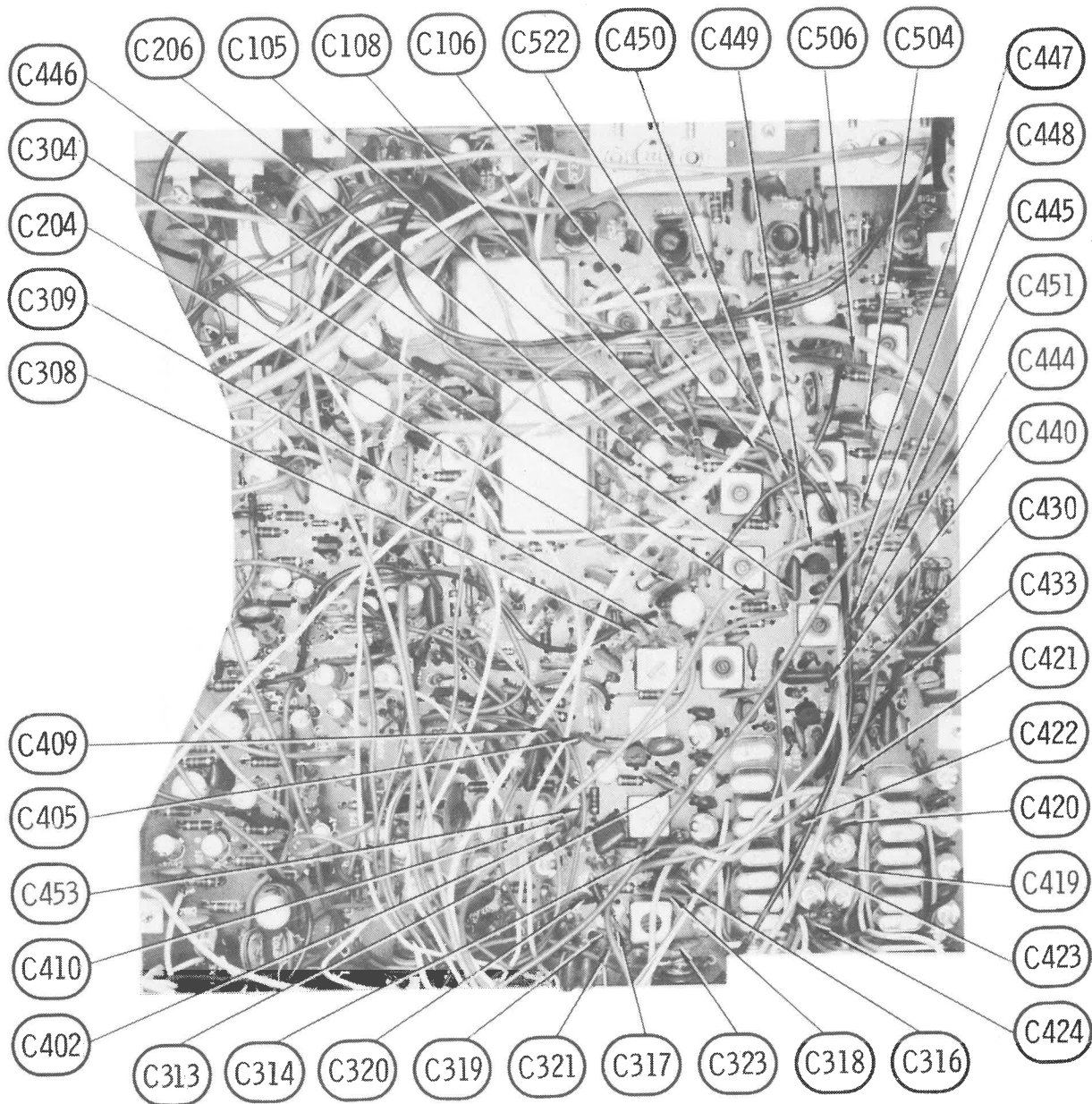


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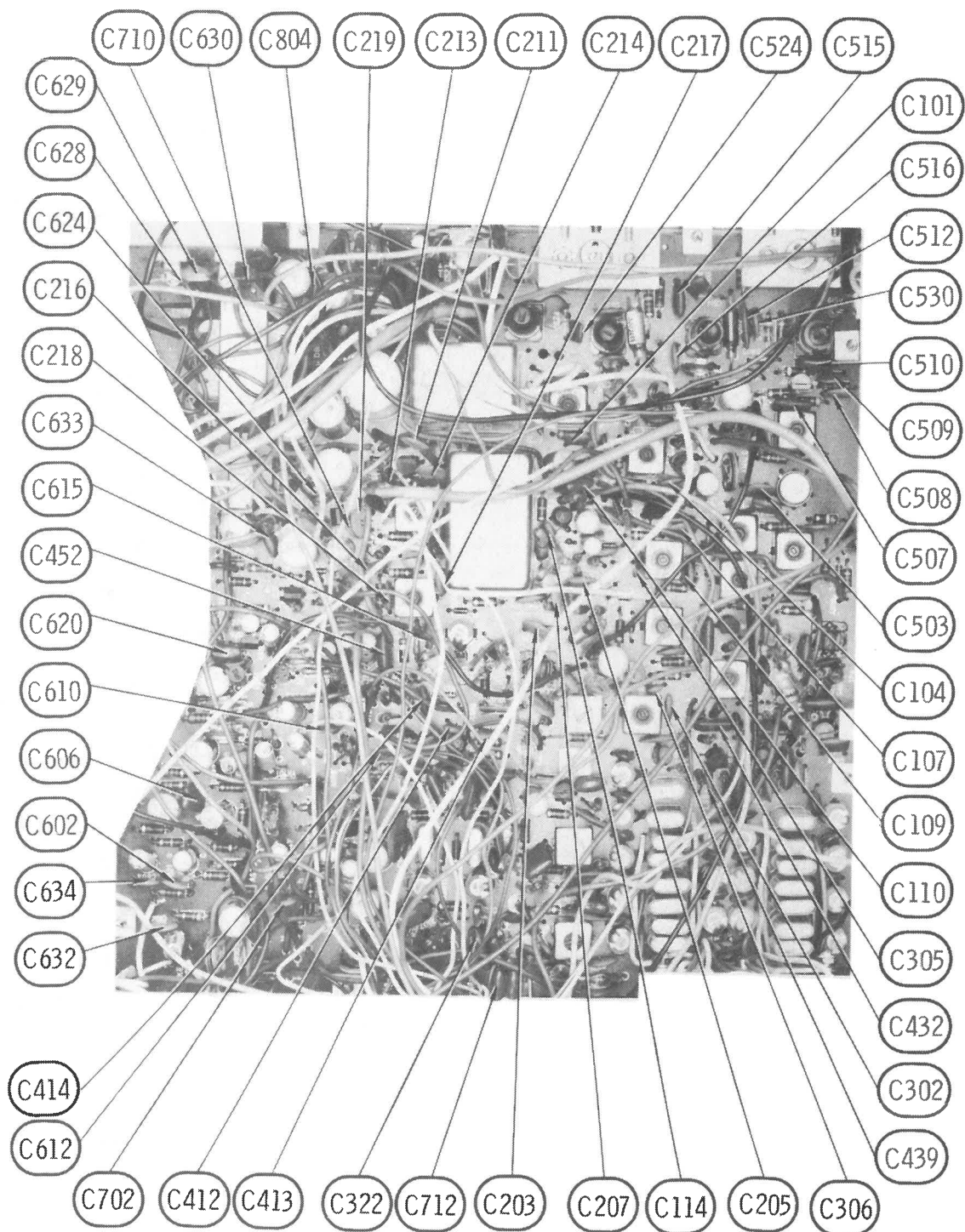


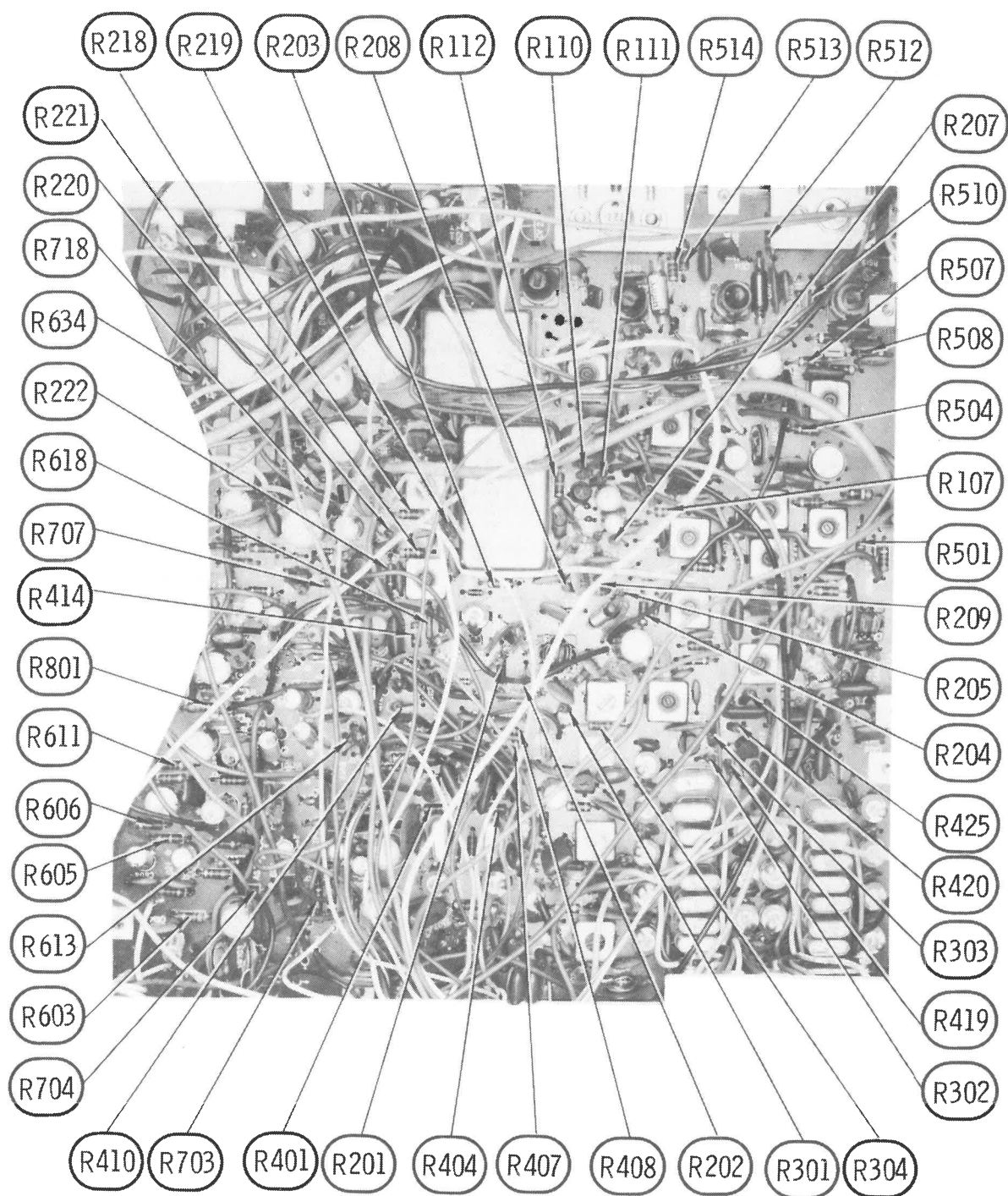


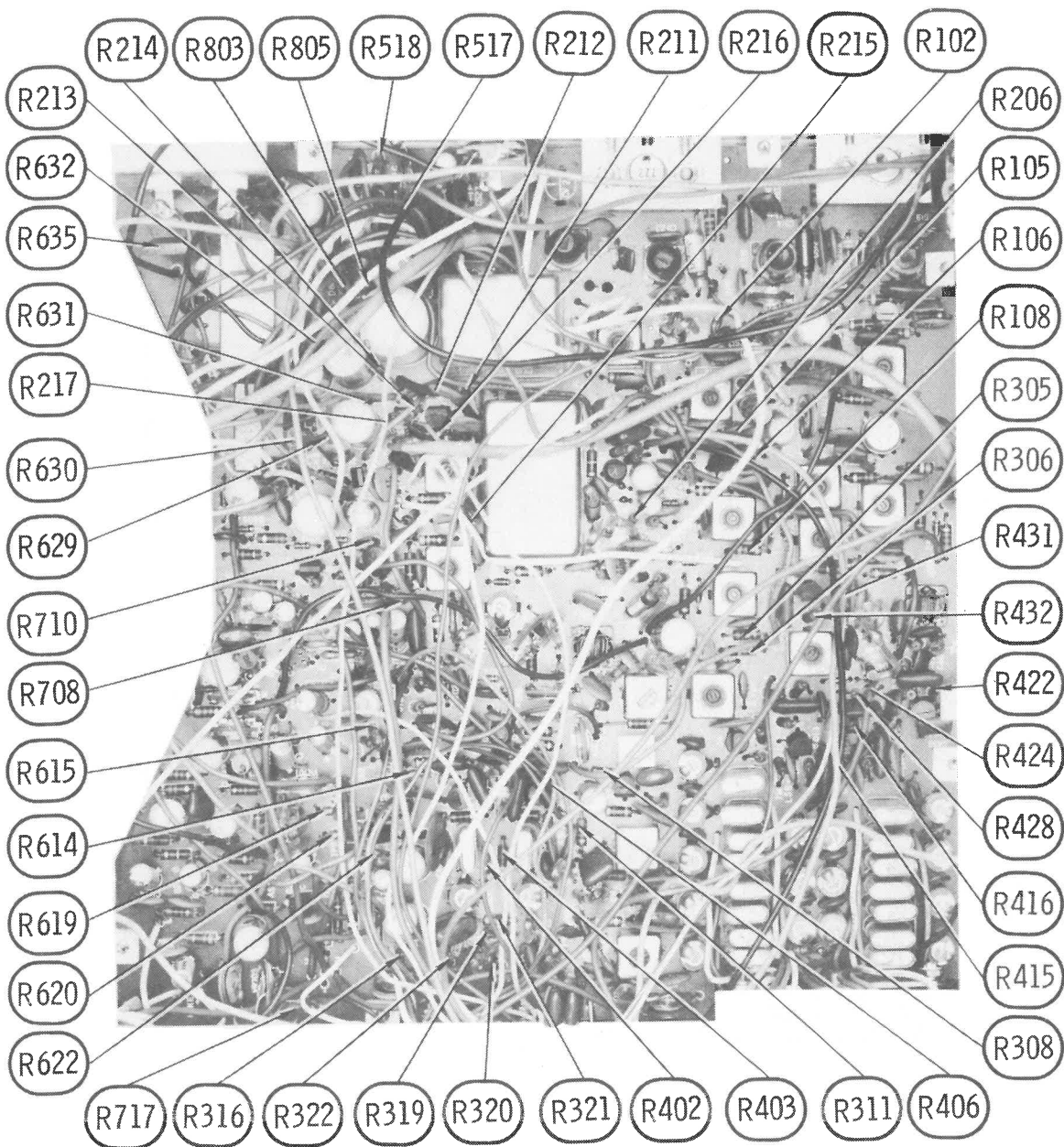




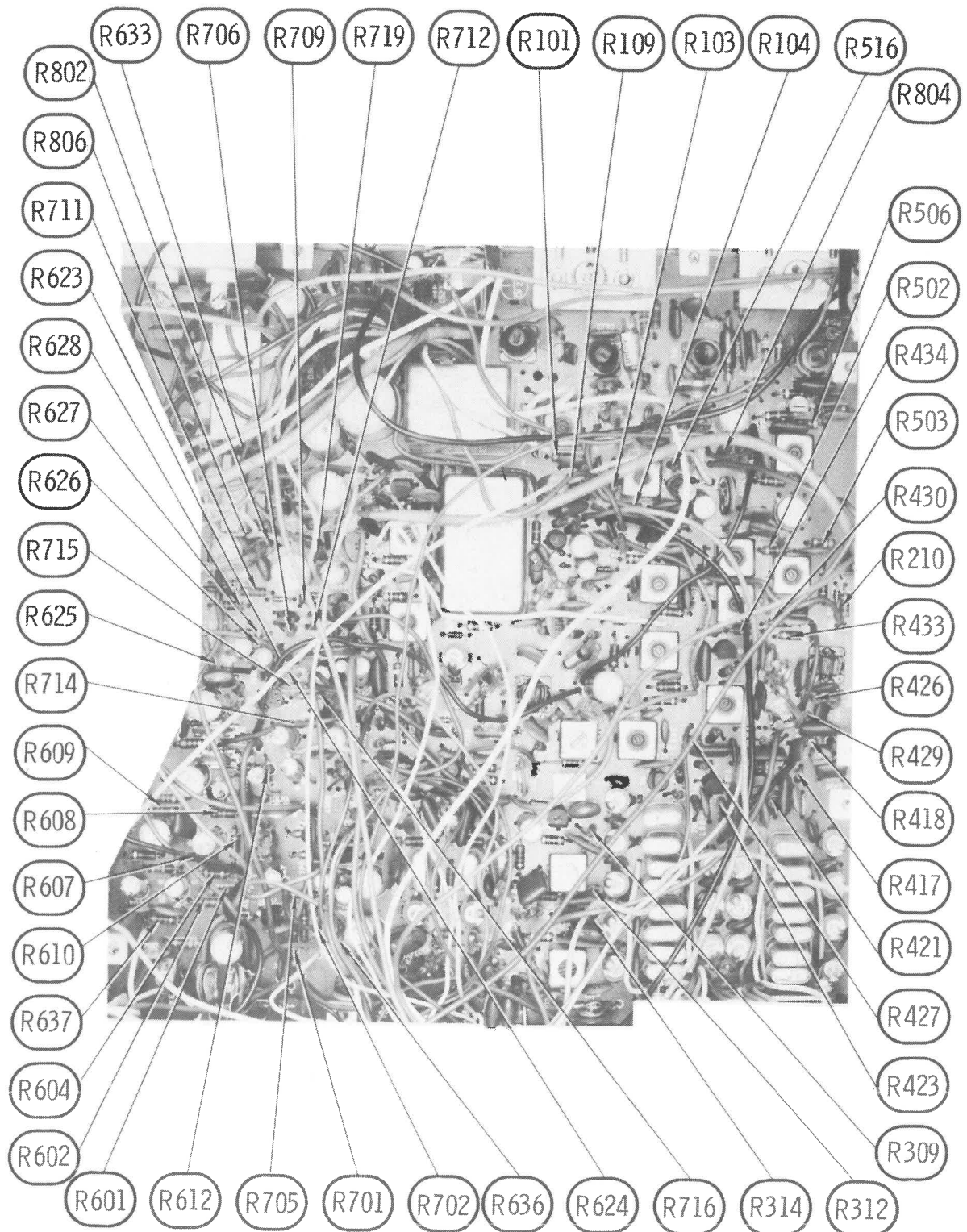
B & K MODEL COBRA 131

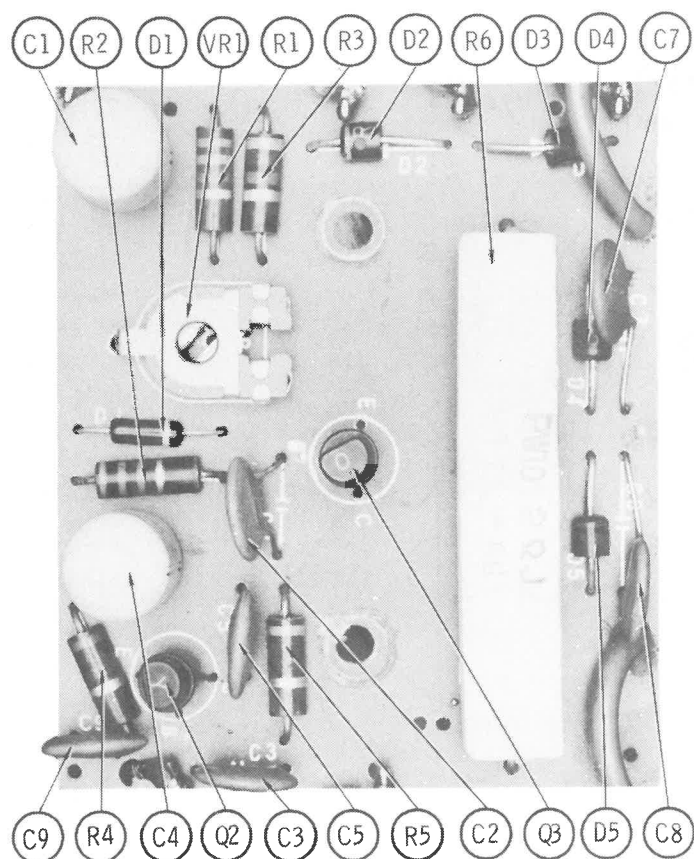
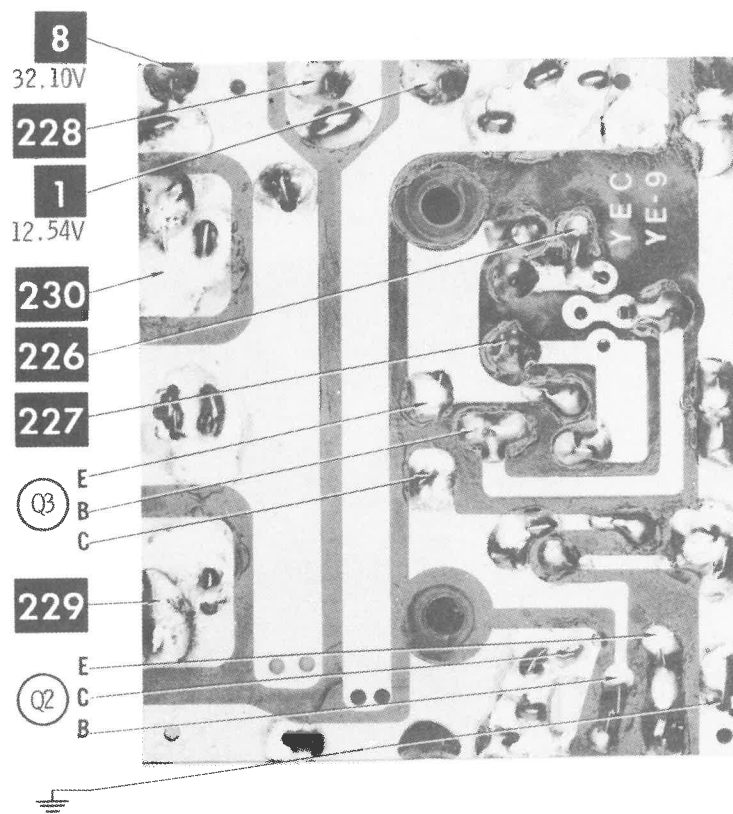


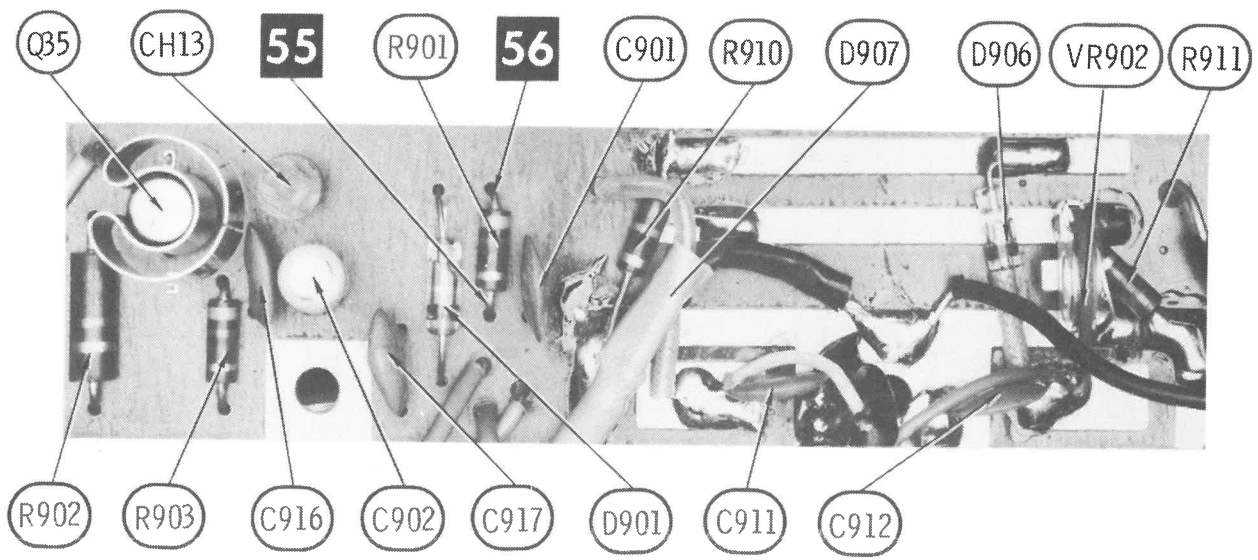
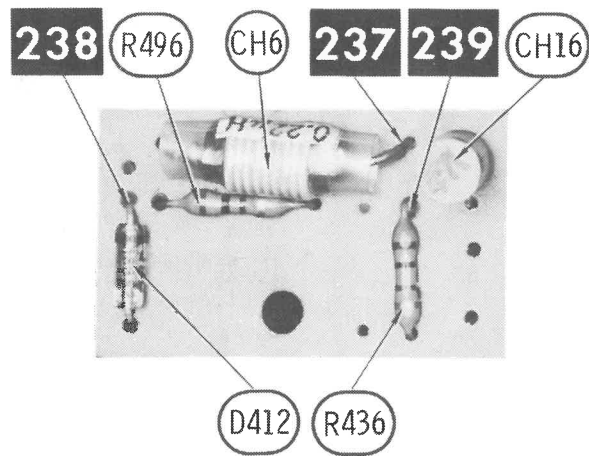




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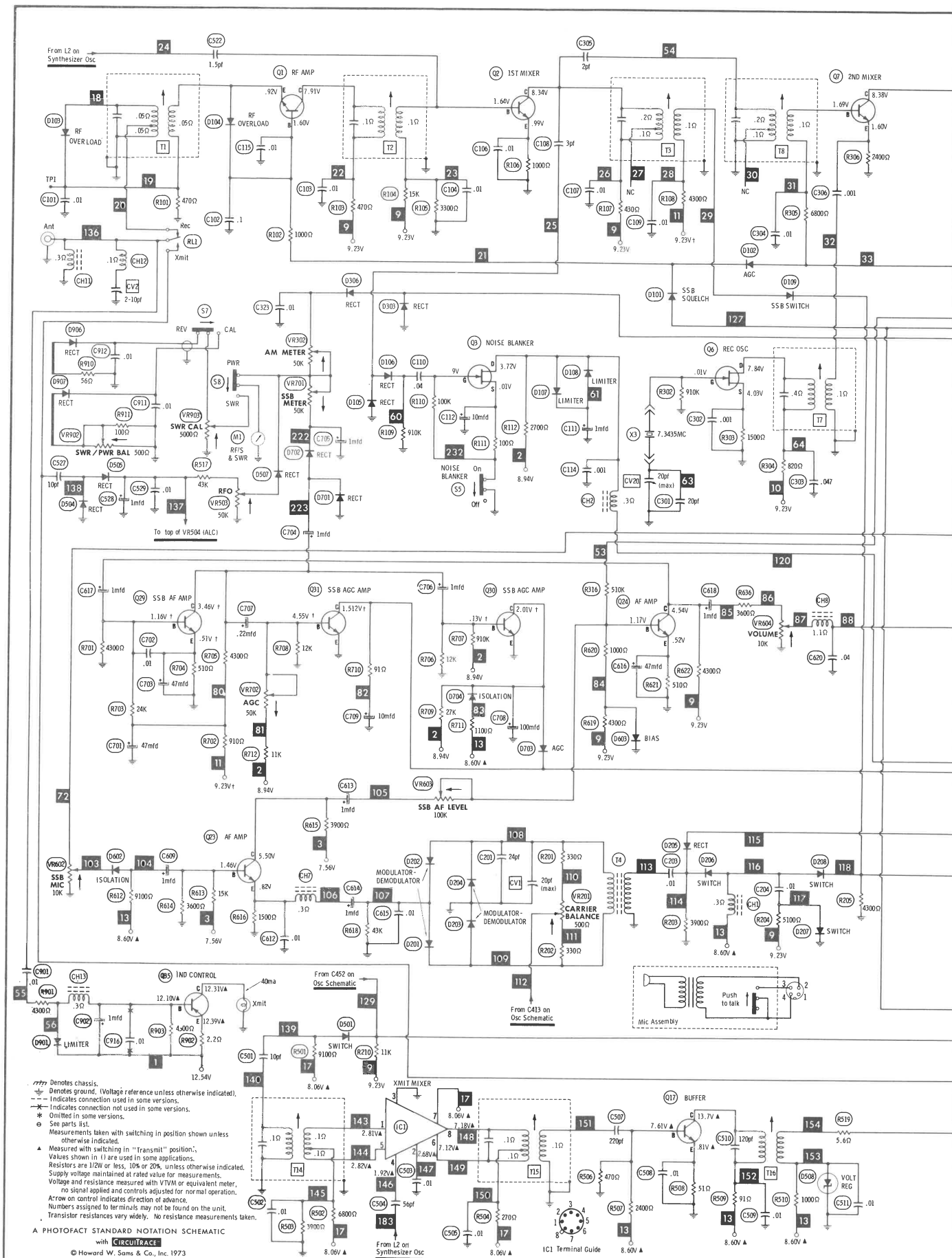


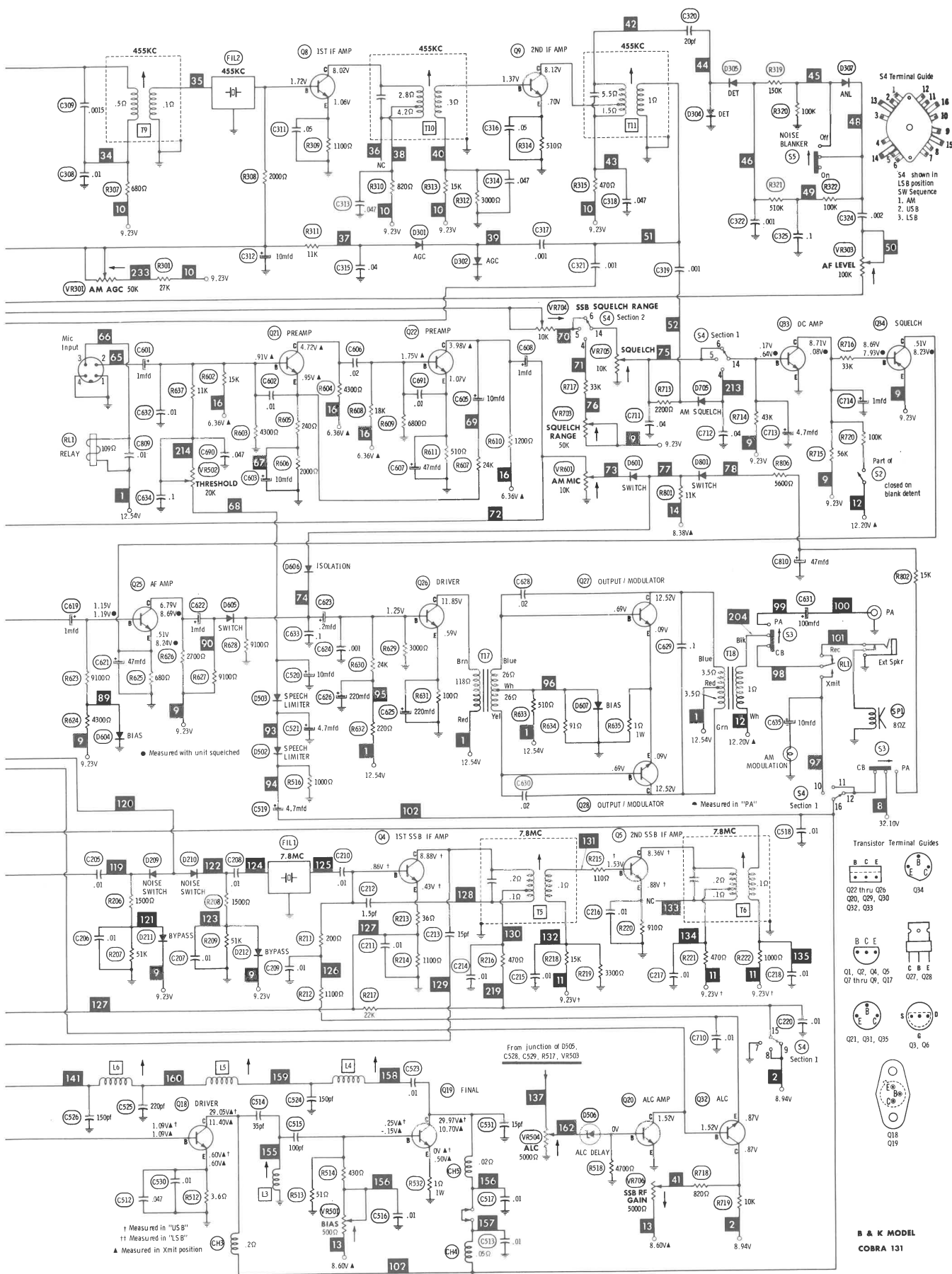


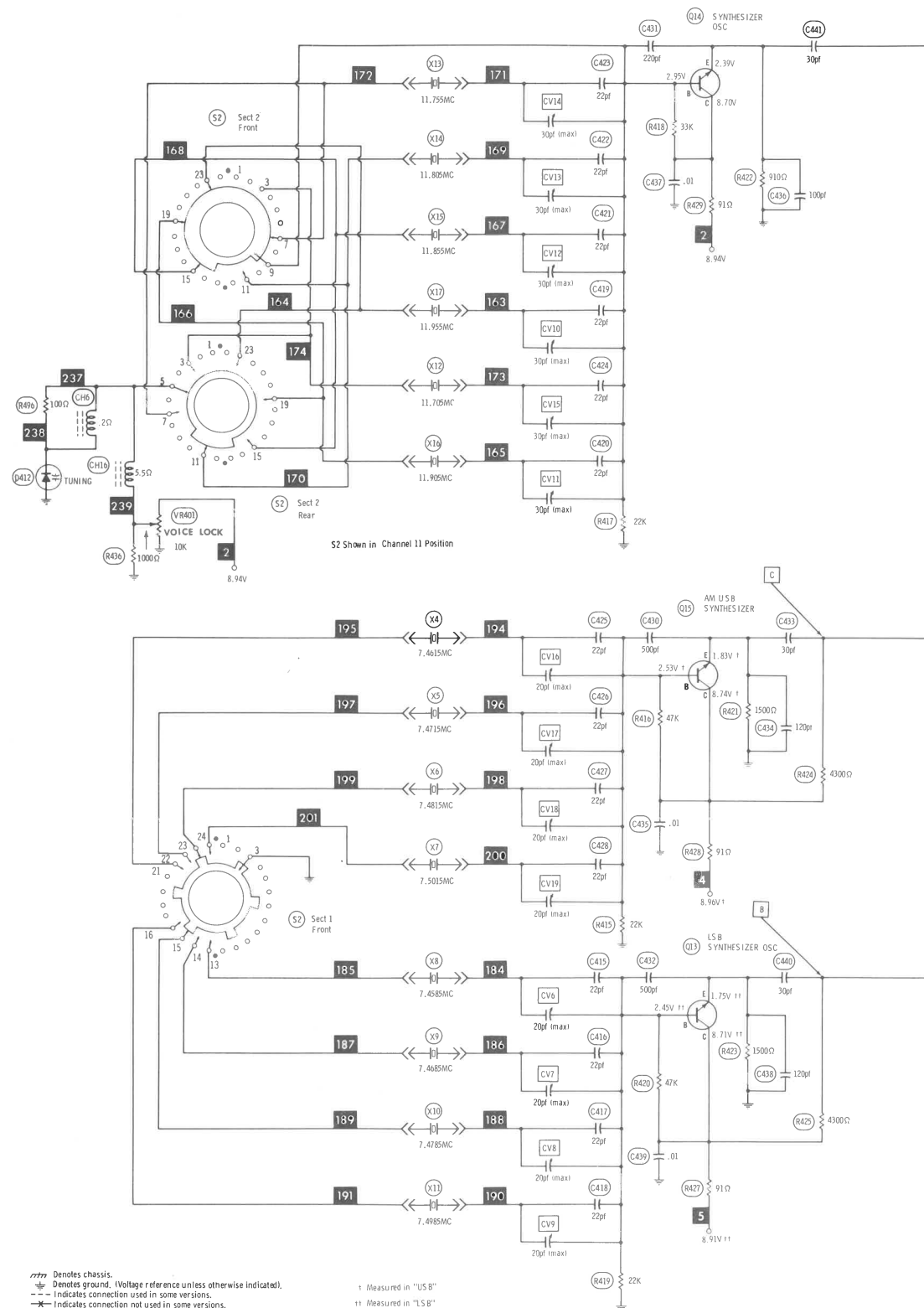




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rfm Denotes chassis.
 ⚡ Denotes ground. (Voltage reference unless otherwise indicated).
 --- Indicates connection used in some versions.
 -X- Indicates connection not used in some versions.
 * Omitted in some versions.
 Ⓞ See parts list.
 Measurements taken with switching in position shown unless otherwise indicated.
 ▲ Measured with switching in "Transmit" position.
 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 VTVM or equivalent meter, no signal applied and controls adjusted for normal operation.
 Arrow on control indicates direction of advance.
 Numbers assigned to terminals may not be found on the unit.
 Transistor resistances vary widely. No resistance measurements taken.

1 Measured in "USB"
 1+ Measured in "LSB"

A PHOTOFACIT STANDARD NOTATION SCHEMATIC
 with **CIRCUITRACE**

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PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS

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.
Q1	2SC494	GE-14	TR-26	PTC116	PTC247	SK3027	RT131	ECG 130
Q2	2SC735	GE-63	TR-25	PTC123	HEP53	SK3122	RT102	ECG 123A
Q3	2SC371	GE-20	TR-21	PTC121	HEP50	SK3122	RT102	ECG 123A
D1	1S331 (10)	GE-ZD-6.2	Z1204	PTC503	HEPZ0408	SK3058		ECG 5070
D2	1R01	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D3	1R01	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D4	1R1D	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D5	1R1D	GE-504A	8D4 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D101	1N34A/ 150-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D102	1N34A/ 150-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D103	1N34A/ 150-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D104	1N34A/ 150-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D105	1N34A/ 150-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D106	1N34A/ 150-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D107	1S1212/ 151-032-9-001	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D108	1S1212/ 151-032-9-001	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D109	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D201	1N60P/ 150-001-9-005	1N60 (7)	1N60 (7)	PTC206 (7)	HEP135 (7)	SK3088 (7)		ECG 110 (6)
D202	1N60P/ 150-001-9-005							
D203	1N60P/ 150-001-9-005	1N60 (7)	1N60 (7)	PTC206 (7)	HEP135 (7)	SK3088 (7)		ECG 110 (6)
D204	1N60P/ 150-001-9-005							
D205	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D206	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D207	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D208	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D209	1N60P/ 150-001-9-005	1N60 (7)	1N60 (7)	PTC206 (7)	HEP135 (7)	SK3088 (7)		ECG 110 (6)
D210	1N60P/ 150-001-9-005							
D211	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D212	CD8457/ 151-032-9-002							
D301	1N34A/ 150-001-9-007	1N34AS (7)	1N34A (7)	PTC207 (7)	HEP134 (7)	SK3087 (7)		ECG 110 (6)
D302	1N34A/ 150-001-9-007							
D304	1N34A/ 150-001-9-007	1N34AS (7)	1N34A (7)	PTC207 (7)	HEP134 (7)	SK3087 (7)		ECG 110 (6)
D305	1N34A/ 150-001-007							
D303	1N34A/ 150-001-9-007	1N34AS (7)	1N34A (7)	PTC207 (7)	HEP134 (7)	SK3087 (7)		ECG 110 (6)
D306	1N34A/ 150-001-9-007							
D307	1S84/ 151-021-9-001	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D401	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D402	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D403	CD8457/ 151-032-9-002	GE-300 (7)	D200MP (6)	PTC215 (6)	HEPR0600(7)	SK3100 (7)	RT218 (7)	ECG 178MP(6)
D404	CD8457/ 151-032-9-002							
D405	CD8457/ 151-032-9-002	GE-300 (7)	D200MP (6)	PTC215 (6)	HEPR0600(7)	SK3100 (7)	RT218 (7)	ECG 178MP(6)
D406	CD8457/ 151-032-9-002							
D407	1N60P/ 150-001-9-005	1N60 (7)	1N60 (7)	PTC206 (7)	HEP135 (7)	SK3088 (7)		ECG 110 (6)
D408	1N60P/ 150-001-9-005							
D409	1N60P/ 150-001-9-005	1N60 (7)	1N60 (7)	PTC206 (7)	HEP135 (7)	SK3088 (7)		ECG 110 (6)
D410	1N60P/ 150-001-9-005							
D411	1N34A/ 151-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D412	1S352M/ 151-039-9-003	GE-90 (8)	D201 (8)		HEPR2503(8)	SK3126 (8)		
D501	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D502	1N34A/ 150-001-9-001	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D503	KB262/ 151-032-9-004	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D504	1N34A/ 150-001-9-001	1N34AS (7)	1N34A (7)	PTC207 (7)	HEP134 (7)	SK3087 (7)		ECG 110 (6)
D505	1N34A/ 150-001-9-001							

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (cont)

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.	SPRACUE PART No.	SYLVANIA PART No.
D506	B2090/ (10) 152-012-9-001	GEZD-9.1		PTC505	HEPZ0412	SK3060		ECG 139
D507	1S1212/ 151-032-9-001	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D508	1S9905/ 151-032-9-001	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D601	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D602	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D603	KB262/ 151-032-9-004	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D604	KB262/ 151-032-9-004	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D605	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D606	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D607	MV3/151-022-9-001	GE-504A	8D6 or 5A6D	PTC202	HEPR0054	SK3017A or SK3032 SK3087	RT210 or RT215	ECG 116 or ECG 117 ECG 109
D701	1N34A/ 151-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D702	1N34A/ 151-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D703	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D704	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D705	1N34A/ 151-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D801	CD8457/ 151-032-9-002	GE-300	D200	PTC214	HEPR0600	SK3100	RT218	ECG 177
D802	10D4/ 151-023-9-001	GE-504A	8D6 or 5A6D	PTC202	HEPR0054	SK3017A or SK3032 SK3017A or SK3032 SK3060	RT210 or RT215	ECG 116 or ECG 117 ECG 116 or ECG 117 ECG 139
D803	10D4/151-023-9-001	GE-504A	8D6 or 5A6D	PTC202	HEPR0054	SK3017A or SK3032 SK3017A or SK3032 SK3060	RT210 or RT215	ECG 116 or ECG 117 ECG 116 or ECG 117 ECG 139
D804	B2090/ (10) 152-012-9-001	GEZD-9.1		PTC505	HEPZ0412	SK3060		ECG 139
D805	B2090/ (10) 152-012-9-001	GEZD-9.1		PTC505	HEPZ0412	SK3060		ECG 139
D806	B2090/ 152-012-9-001	GEZD-9.1		PTC505	HEPZ0412	SK3060		ECG 139
D807	10D4/ 151-023-9-001	GE-504A	8D6 or 5A6D	PTC202	HEPR0054	SK3017A or SK3032 SK3087	RT210 or RT215	ECG 116 or ECG 117 ECG 109
D901	1N34A/ 150-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D902	1N34A/ 150-001-9-007	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D906	1N60P/ 150-001-9-005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D907	1N60P/ 150-001-9-005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
IC1	TA7045M 307-008-9-001							ECG 724
Q1	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q2	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q3	2SK30Y/ 182-014-9-003	GE-FET-1	FE100	PTC151	HEP801	SK3112	RT176	ECG 133
Q4	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q5	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q6	2SK19GR/ 182-009-9-001	GE-FET-2	FE100	PTC152	HEP802	SK3116	RT175	ECG 132
Q7	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q8	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q9	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q10	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q11	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q12	2SK19GR/ 182-009-9-001	GE-FET-2	FE100	PTC152	HEP802	SK3116	RT175	ECG 132
Q13	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q14	2SC710/ 176-014-9-001	GE-20	TR-21	PT123	HEP56	SK3018	RT102	ECG 123A
Q15	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q16	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q17	2SC710/ 176-014-9-001	GE-20	TR-21	PTC123	HEP56	SK3018	RT102	ECG 123A
Q18	2SC777/ 172-007-9-001					SK3049		
Q19	2SC778/ 172-008-9-001					SK3049		
Q20	2SC458C/ 176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q21	2SD77B/ 174-002-9-001	GE-6	TR-09	PTC108	HEP641	SK3010	RT119	ECG 103A
Q22	2SC458C/ 176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A

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PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (cont)

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.
Q23	2SC458C/176-016-9-00	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q24	2SC458C/176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q25	2SC458C/176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q26	2SC458C/176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q27	2SC931/172-011-9-001	GE-66 (7)	IRTR-76 (7)	PTC110 (7)	HEP245 (7)	SK3054 (7)	RT150 (7)	ECG 152 (7)
Q28	2SC931/172-011-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q29	2SC458C/176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q30	2SC458C/176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q31	2SB77B/175-008-9-001	GE-2	TR-05	PTC109	HEP633	SK3004	RT121	ECG 102A
Q32	2SC458C/176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q33	2SC458C/176-016-9-001	GE-20	TR-24	PTC123	HEP53	SK3124	RT102	ECG 123A
Q34	2SA495/177-007-9-001	GE-22	TR-19	PTC103	HEP52	SK3114	RT126	ECG 159
Q35	2SA564A/2SB77B/175-008-9-001	GE-22 GE-2	TR-19 TR-05	PTC103 PTC109	HEP52 HEP633	SK3114 SK3004	RT126 RT121	ECG 159 ECG 102A

(6) Matched Pair.

(7) Two required - select matched pair.

(8) Varactor.

(10) Zener

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.
C1	100	25V		RME-G-G-100	EA30-100	WBR100-25	MTV100DB25	EV-1330
C4	47	25V		RME-F-G-050	EP30-50	WBR50-25	MTV50CD25	EV-1326
C111	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C112	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C113	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C221	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C312	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C519	4.7	35V		RME-B-H-005	EP50-5	WBR5-50	MTV5CB50	EV-1519
C520	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C521	4.7	16V	022-077-9-001	RME-A-E-005	EP15-5	WBR5-50	MTV5CB50	EV-1319
C528	1	16V	022-045-9-001	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C601	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C603	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C604	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C605	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C607	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C608	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C609	1	16V	022-045-9-001	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C611	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C613	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C614	1	16V	022-045-9-001	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C616	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C617	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C618	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C619	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C621	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C622	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C623	.22	16V	022-077-9-006	ME-1-A-001	EP6-2	WBR1-50	TAS224K015POA	SD35-R229
C625	220	16V	022-047-9-001	ME-6-E-200	EA15-250	WBR250-16	MTV200DE15	EV-1240
C626	220	16V	022-047-9-001	ME-6-E-200	EA15-250	WBR250-16	MTV200DE15	EV-1240
C627	220	16V	022-047-9-001	ME-6-E-200	EA15-250	WBR250-16	MTV200DE15	EV-1240
C631	100	16V	022-077-9-002	RME-E-E-100	EP15-100	WBR100-16	MTV100CD15	EV-1230
C635	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C701	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C703	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C704	1	16V	022-045-9-001	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C705	1	16V	022-045-9-001	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C706	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C707	.22	16V	022-077-9-006	ME-1-A-001	EP6-2	WBR1-50	TAS224K015POA	SD35-R229
C708	100	16V	022-077-9-002	RME-E-E-100	EP15-100	WBR100-16	MTV100CD15	EV-1230
C709	10	16V	022-044-9-001	RME-B-E-010	EP15-10	WBR10-25	MTV10CB50	EV-1222
C713	4.7	16V	022-077-9-001	RME-A-E-005	EP15-5	WBR5-50	MTV5CB50	EV-1319
C714	1	16V	022-077-9-005	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C802	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C803	1000	16V	022-048-9-001	RME-N-E-1000	EA15-1000	WBR1000-16	TC1501B	EV-1260
C805	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C807	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C810	47	16V	022-046-9-001	RME-E-E-050	EP15-50	WBR50-25	MTV50CB15	EV-1226
C902	1	16V	022-045-9-001	ME-1-A-001	EP6-2	WBR1-50	MTV1CB50	EV-1315
C908	2200	35V						TVL-1343

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.
C2	.005	025-040-9-001	CCD-502	DD-502	GP5000	JF250	10TS-D50
C3	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C5	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C7	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C8	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C9	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C101	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C102	.1			CK-104		TA010	TG-P10
C103	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C104	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C105	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C106	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C107	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C108	3						
C109	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C110	.04		1DP-1-403			PVC114	
C114	.001		CCD-102	DM-102	GP1000	SM210	2SS-D10
C115	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C201	24		DM-15-240J	CPR-240J		SX424	MS-424
C203	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C204	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C205	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C206	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C207	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C208	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C209	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C210	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C211	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C212	1.5					PVC11P5	155P15502
C213	15		DM-15-150J			SX415	
C214	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C215	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C216	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C217	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C218	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C219	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C220	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C301	20	023-009-9-001		DTN-20	N20	CN7420	10TCU-Q20
C302	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C303	.047						
C304	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C305	2						
C306	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C307	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C308	.00		CCD-103	DD-103	GP10000	JF110	10TS-S10
C309	.0015		DM-20-152J	CPR-1500J	CD19FD152J03	SX215	424MC1501J501
C311	.05		6DP-3-503		DPMS6S5	PVC615	6PS-S50
C313	.047						
C314	.047						
C315	.04		1DP-1-403			PVC114	
C316	.05		6DP-3-503		DPMS6S5	PVC615	6PS-S50
C317	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C318	.047						
C319	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C320	20		DM-15-200J	CPR-20J		SX420	
C321	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C322	.001		6DP-1-102	DD-102	DPMS6D1	PVC621	6PS-D10
C323	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C324	.002		1MDF-1-202				
C325	.1		1DP-2-104		DPMS2P1	PVC101	225P10491W03
C401	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C402	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C403	.001		DM-20-102J	CPR-1000J	CD19FD102J03	SX210	424MC1001J501
C404	100		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C405	100		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C407	.047						
C408	47		DM-15-470J	CPR-47J	CD15ED470J03	SX447	424MC47R0J501
C409	47		DM-15-470J	CPR-47J	CD15ED470J03	SX447	424MC47R0J501
C410	.047						
C411	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C412	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C413	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C414	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C415	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C416	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C417	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C418	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C419	22 N470						10TCT-Q22
C420	22 N470						10TCT-Q22
C421	22 N470						10TCT-Q22
C422	22 N470						10TCT-Q22
C423	22 N470						10TCT-Q22
C424	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C425	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C426	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C427	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C428	22 N750		CCTN-220	DTN-22	N22	CN7422	10TCU-Q22
C430	500						
C431	220						
C432	500						
C433	30		DM-15-300J	CPR-30J		SX430	
C434	120		DM-15-121J	CPR-120J	CD15FD121J03	SX312	424MC1200J501
C435	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C436	100		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501
C437	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C438	120		DM-15-121J	CPR-120J	CD15FD121J03	SX312	424MC1200J501
C439	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C440	30		DM-15-300J	CPR-30J		SX430	
C441	30		DM-15-300J	CPR-30J		SX430	
C442	40						MS-44
C443	100		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC1000J501

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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/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C444	50	023-033-9-009	DM-15-500J				
C445	50		DM-15-500J				
C446	220		DM-19-221J	CPR-220J	CD15FD221J03	SX322	424ME220J501
C447	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C448	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C449	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C450	1					CN0510	10TCC-V10
C451	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C452	220		DM-19-221J	CPR-220J	CD15FD221J03	SX322	424ME220J501
C453	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C501	10		DM-15-100J		CD15CD100J03	SX410	
C502	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C503	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C504	56						
C505	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C506	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C507	220		DM-19-221J	CPR-220J	CD15FD221J03	SX322	424ME220J501
C508	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C509	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C510	120		DM-15-121J	CPR-120J	CD15FD121J03	SX312	424MC120J501
C511	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C512	.047						
C513	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C514	35						
C515	100						
C516	.01		DM-15-101J	CPR-100J	CD15FD101J03	SX310	424MC100J501
C517	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C518	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C522	1.5					PVC11P5	155P15502
C523	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C524	150		DM-15-151J	CPR-150J	CD15FD151J03	SX315	424MC150J501
C525	150		DM-15-151J	CPR-150J	CD15FD151J03	SX315	424MC150J501
C526	150						
C527	10		DM-15-100J		CD15CD100J03	SX410	
C529	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C530	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C531	15						
C602	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C606	.02		1DP-1-203		DPMS2S2	PVC212	2PS-S20
C610	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C612	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C615	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C620	.04		CCD-103	DD-103	GP10000	JF110	10TS-S10
C624	.001		1DP-1-403			PVC114	
C625	.02		CCD-102	DD-102	GP1000	GP210	10TS-D10
C629	.1		1DP-1-203		DPMS2S2	PVC212	2PS-S20
C630	.02			CK-104		TA010	TG-P10
C632	.01		1DP-1-203		DPMS2S2	PVC212	2PS-S20
C633	.1		CCD-103	DD-103	GP10000	JF110	10TS-S10
C634	.1			CK-104		TA010	TG-P10
C702	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C710	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C711	.04		1DP-1-403			PVC114	
C712	.04		1DP-1-403			PVC114	
C804	.047						
C806	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C808	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C809	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C901	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C909	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C910	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C911	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C912	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C916	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C917	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
CV1	20	028-014-9-001					
CV2	10	028-015-9-001					
CV3	20	028-014-9-001					
CV4	20	028-014-9-001					
CV6	20	028-014-9-001					
CV7	20	028-014-9-001					
CV8	20	028-014-9-001					
CV9	20	028-014-9-001					
CV10	30	028-021-9-001					
CV11	30	028-021-9-001					
CV12	30	028-021-9-001					
CV13	30	028-021-9-001					
CV14	30	028-021-9-001					
CV15	30	028-021-9-001					
CV16	20	028-014-9-001					
CV17	20	028-014-9-001					
CV18	20	028-014-9-001					
CV19	20	028-014-9-001					
CV20	20	028-014-9-001					

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
VR1	Voltage Adjust	200		T-200(1) or TSV-250(1)		X201R251B(1)	MTC22L1(1)
VR201	Carrier Balance	500	008-159-9-001	TSV-500 or T-500	C-501	X201R501B	MTC52L1
VR301	"AM" AGC Adjust	50K	008-159-9-009	TSV-50K(2) or T-50K(2)	C-503(2)	X201R503B(2)	MTC54L1(2)
VR302	AM Meter Adjust	50K	008-159-9-009	TSV-50K(2) or T-50K(2)	C-503(2)	X201R503B(2)	MTC54L1(2)
VR303	AF Level Adjust	100K	008-116-9-001	TSV-100K(2) or T-100K(2)	C-104(2)	X201R104B(2)	MTC15L1(2)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS—IRC PART No.	MALLORY PART No.
VR401	Voice Lock	10K	008-159-9-005	F1-10K(3), SSK100	A47-10K-S(3), KSS-3 or [NP-10K-S(3), UP-C-400]	Q11-116(3) or [BU1(3), CF9, SS1, DC1]*	RU14L, SL36(3), SL1500 or [UA14L(3), SK1000] or [U20(3)]
VR501	Bias	500	008-159-9-006	TSV-500(2) or T-500(2)	C-501(2)	X201R501B(2)	MTC52L1(2)
VR502	Threshold	20K	008-159-9-007	T-20K(2) or TSV-25K(2)	C-253(2)	X201R253B(2)	MTC24L1(2)
VR503	RFO	50K		TSV-50K or T-50K	C-503	X201R503B	MTC54L1
VR504	"ALC" Adjust	5000	008-159-9-003	TSV-5K or T-5000	C-502	X201R502B	MTC53L1
VR601	AM Mic	10K	008-159-9-004	TSV-10K or T-10K	C-103	X201R103B	MTC14L1
VR602	"SSB" Mic	10K	008-159-9-004	TSV-10K or T-10K	C-103	X201R103B	MTC14L1
VR603	SSB AF Level	100K	008-116-9-001	TSV-100K(2) or T-100K(2)	C-104(2)	X201R104B(2)	MTC15L1(2)
VR701	"SSB" Meter Adjust	50K	008-159-9-009	TSV-50K(2) or T-50K(2)	C-503(2)	X201R503B(2)	MTC54L1(2)
VR702	AGC	50K	008-159-9-009	TSV-50K(2) or T-50K(2)	C-503(2)	X201R503B(2)	MTC54L1(2)
VR703	Squelch Range	100K	008-116-9-001	TSV-100K(2) or T-100K(2)	C-104(2)	X201R104B(2)	MTC15L1(2)
VR704	"SSB" Squelch Range	10K		TSV-10K(2) or T-10K(2)	C-103(2)	X201R103B(2)	MTC14L1(2)
VR705	Squelch	10K	008-159-9-008				
VR604	Volume	10K					
VR706	"SSB" RF Gain	5000	008-159-9-010				
VR902	SWR/PWR Balance	500	008-159-9-006	TSV-500(2) or T-500(2)	C-501(2)	X201R501B(2)	MTC52L1(2)
VR903	"SWR" Calibrate	5000	008-159-9-011	F1-5000(3), SRS010	A47-5000-S(3), RS-2 or [NP-5000-S(3), UP-S-014]	Q11-114(3) or [BU1(3), CF8, SS3, DC1]*	RU53L, SL36(3), SL1500 or [UA53L(3), SK750] or [U14(3)]

* "SNAPTROL" (1) For horizontal mounting, bend the two outside terminals to fit "PC" board. Use jumper wire to connect center terminal to "PC" board. (2) Cut off one of the end terminals and bend to fit "PC" board. (3) Enlarge mounting hole.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R6	2 ohms 10W WW		
R512	3.6 ohms		
R532	1 ohm 1W WW		
R635	1 ohm 1W WW		
R902	2.2 ohms		

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R512	3.6 ohms		
R532	1 ohm 1W WW		
R6	2 ohms 10W		
R635	1 ohm 1W WW		
R902	2.2 ohms		

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
CH1	RF Choke (22uh)	041-048-9-001	16-6022	4626	TA311
CH2	RF Choke (22uh)	041-048-9-001	16-6022	4626	TA311
CH3	RF Choke (2.5uh)	041-048-9-002	19-2011	4606	T857
CH4	RF Choke (.65uh)	041-048-9-003	19-2006	4590	T803
CH5	RF Choke (3uh)	041-048-9-004		74F336AP	T816
CH6	RF Choke (.22uh)	041-048-9-005	19-2003	4584	T957
CH7	RF Choke (22uh)	041-048-9-001	16-6022	4626	TA311
CH8	RF Choke (8.2uh)	041-048-9-006	19-1009	74F826AP	T960
CH11	RF Choke (22uh)	041-048-9-001	16-6022	4626	TA311
CH12	RF Choke (.85uh)	041-048-9-008	19-2008	4594	TA812
CH13	RF Choke (15uh)	041-048-9-009	19-2018	4624	T862
L1	Synthesizer Output	046-011-9-001			
L2	Synthesizer Output	046-011-9-002			
L3	XMTR. Driver	044-026-9-001			
L4	XMTR. Antenna Matching	044-026-9-002			
L5	XMTR. Antenna Matching	044-026-9-003			
L6	XMTR. Antenna Matching	044-026-9-004			
T1	RF	066-014-9-001			
T2	Mixer Input	066-014-9-002			
T3	1st Mixer Output	060-015-9-001			
T4	Balance Modulator Output	060-015-9-002			
T5	SSB Interstage IF	060-015-9-001			
T6	SSB Output IF	060-015-9-001			
T7	Rec. Oscillator	064-011-9-001			
T8	2nd Mixer Output	060-015-9-001			
T9	Input IF	060-015-9-003			
T10	Interstage IF	060-015-9-004	16-9027	2067	
T11	Output IF	060-015-9-009		8518	
T12	Synthesizer Mixer Input	060-015-9-006			
T13	Synthesizer Buffer	060-015-9-007			
T14	XMTR. Mixer Input	060-015-9-008			
T15	XMTR. Mixer Output	066-014-9-003			
T16	XMTR. Driver	066-014-9-004			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T18	18	8	061-020-9-001 (C02B)				

B & K MODEL COBRA 131

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Power)

ITEM No.	RATING	REPLACEMENT DATA				NOTES
	PRI.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T901	120VAC @ 150MAAC(1) 400MAAC(2) 225MAAC(3)	065-071-9-001 (P020)				(1) Receiver (2) AM (3) SSB
	SEC. 1					
	46VAC CT @ 270MADC(1) 1100MADC(2) 563MADC(3)					

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.	
T17	3.5	1		068-006-9-001 (A01A)				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3-1/2" PM 8 ohms	580-011-9-001	3A05RZ8	

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 250V	101-251-3-001				312001		
F2	2A 3AG 250V	191-251-3-002		AGC2	HKP	312002	342001	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FIL1	Crystal Filter	143-001-9-001	7.8MC
FIL2	Ceramic Filter	140-007-9-001	455KC
M1	Meter	320-037-9-001	RF/S/SWR
M2	Clock	465-002-9-001	
RL1	Relay	441-005-9-001	Xmit.-Rec.
S1	Switch	093-009-9-001	On-Off
S2	Switch	083-124-9-001	Channel Selector
S3	Switch	084-024-9-001	PA-CB
S4	Switch	083-124-9-002	AM-USB-LSB
S5	Switch	084-024-9-001	Noise Blanker
X1	Crystal	133-003-9-001	7.8015MC
X2	Crystal	133-003-9-002	7.7985MC
X3	Crystal	133-033-9-003	7.3435MC
X4	Crystal	133-003-9-004	7.4615MC
X5	Crystal	133-003-9-005	7.4715MC
X6	Crystal	133-033-9-006	7.4815MC
X7	Crystal	133-003-9-007	7.5015MC
X8	Crystal	133-033-9-008	7.4585MC
X9	Crystal	133-003-9-009	7.4685MC
X10	Crystal	133-003-9-010	7.4785MC
X11	Crystal	133-003-9-011	7.4985MC
X12	Crystal	133-003-9-012	11.705MC
X13	Crystal	133-003-9-013	11.755MC
X14	Crystal	133-003-9-014	11.805MC
X15	Crystal	133-003-9-015	11.855MC
X16	Crystal	133-003-9-016	11.905MC
X17	Crystal	133-003-9-017	11.955MC

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

ITEM	PART No.	ITEM	PART No.
Cabinet	290-002-9-001	Knob, Volume	751-086-9-003
Plate, Front	260-039-9-001	Knob, Squelch	751-086-9-004
Knob, Channel	751-086-9-001	Knob, SSB RF Gain	751-086-9-005
Knob, Mode, Clarifier	751-086-9-002	Knob, Alarm Selector	751-086-9-006
		Knob, Alarm Set	751-086-9-007

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	562-004-9-001	

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Shielded Antenna Lead	8524 (Stranded) Available in 12 Colors
	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	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.)