

SAMS PHOTOFACT[®] CB RADIO SERIES



CB-18
18
NOVEMBER 1968

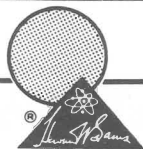


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HOWARD W. SAMS & CO., INC.

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.



REALISTIC MODEL TRC-14

ALIGNMENT INSTRUCTIONS

SUGGESTED ALIGNMENT TOOLS:

A1 thru A6.

GENERAL CEMENT: 9296,9297,9300

WALSCO: 2510,2546,2547

A7 thru A12,A14.

GENERAL CEMENT: 8606,8606L,8869

WALSCO: 2543,2544,2588

A13.

GENERAL CEMENT: 8868,8987,9089

WALSCO: 2531-X,2541,2587

RECEIVER

Connect an AC VTVM across Speaker Voice Coil Terminals. Turn Volume Control fully clockwise; turn Squelch Control fully clockwise.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to Base of Q2 (Rec. Mixer), low side to Chassis. Tune to 455KC (Mod.).	Any	A1 thru A6	Adjust for maximum.
High side thru .01mfd to Antenna Receptacle. Low side to chassis. Tune to 27.085MC (Channel 11) (Mod.).	11	A7,A8, A9	Adjust for maximum.

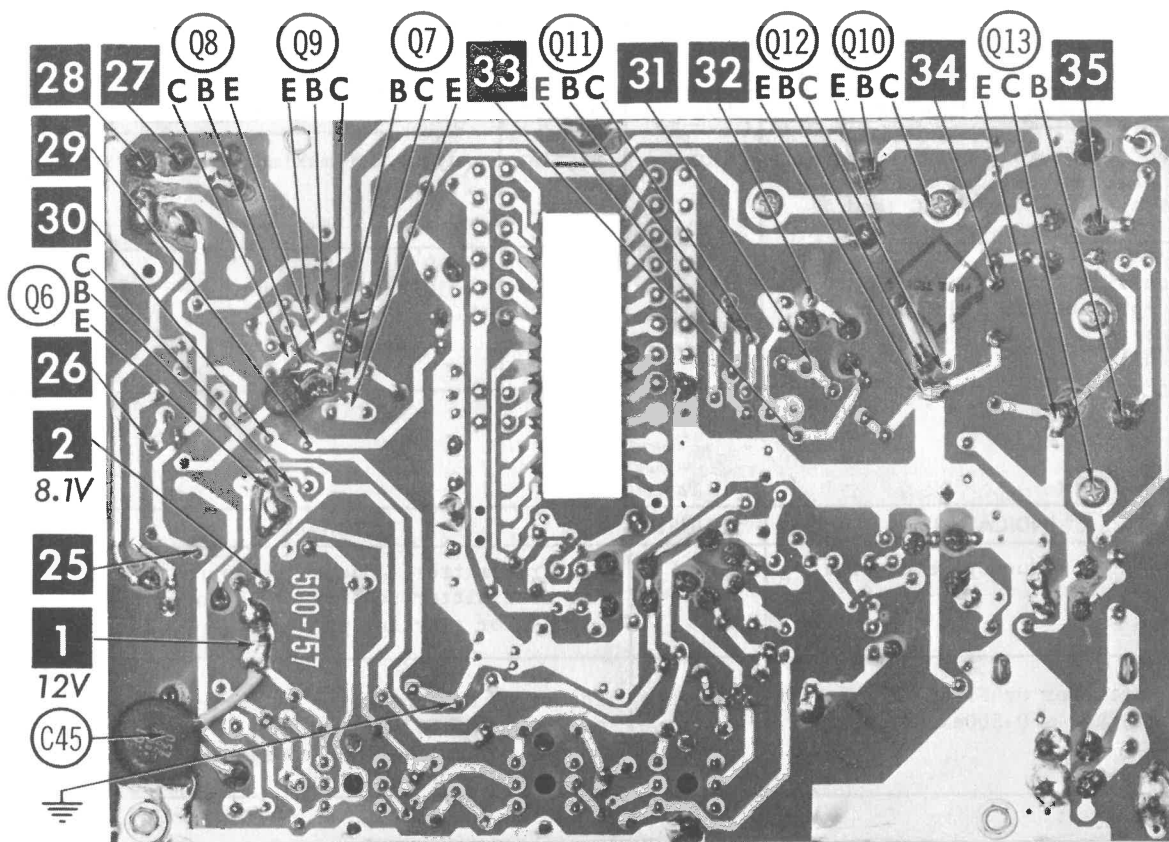
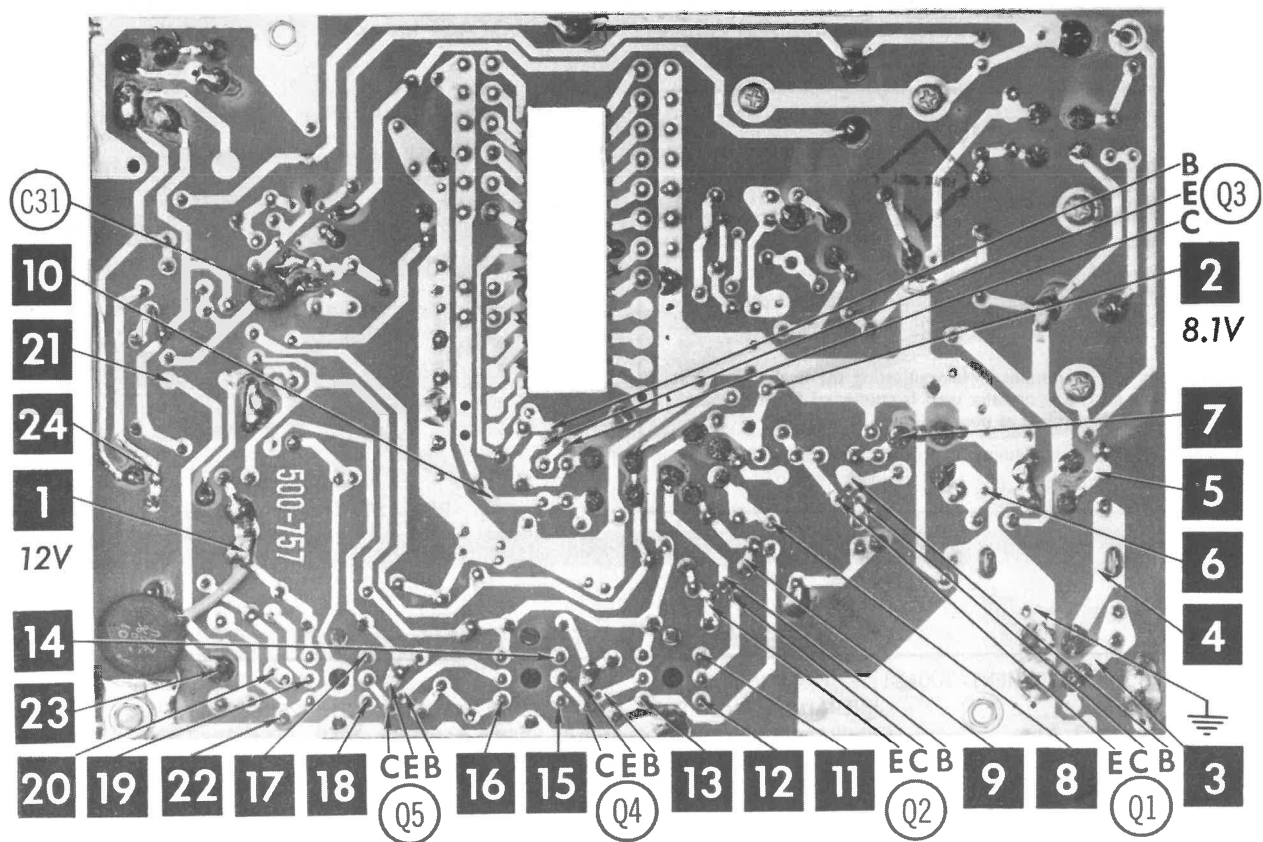
TRANSMITTER

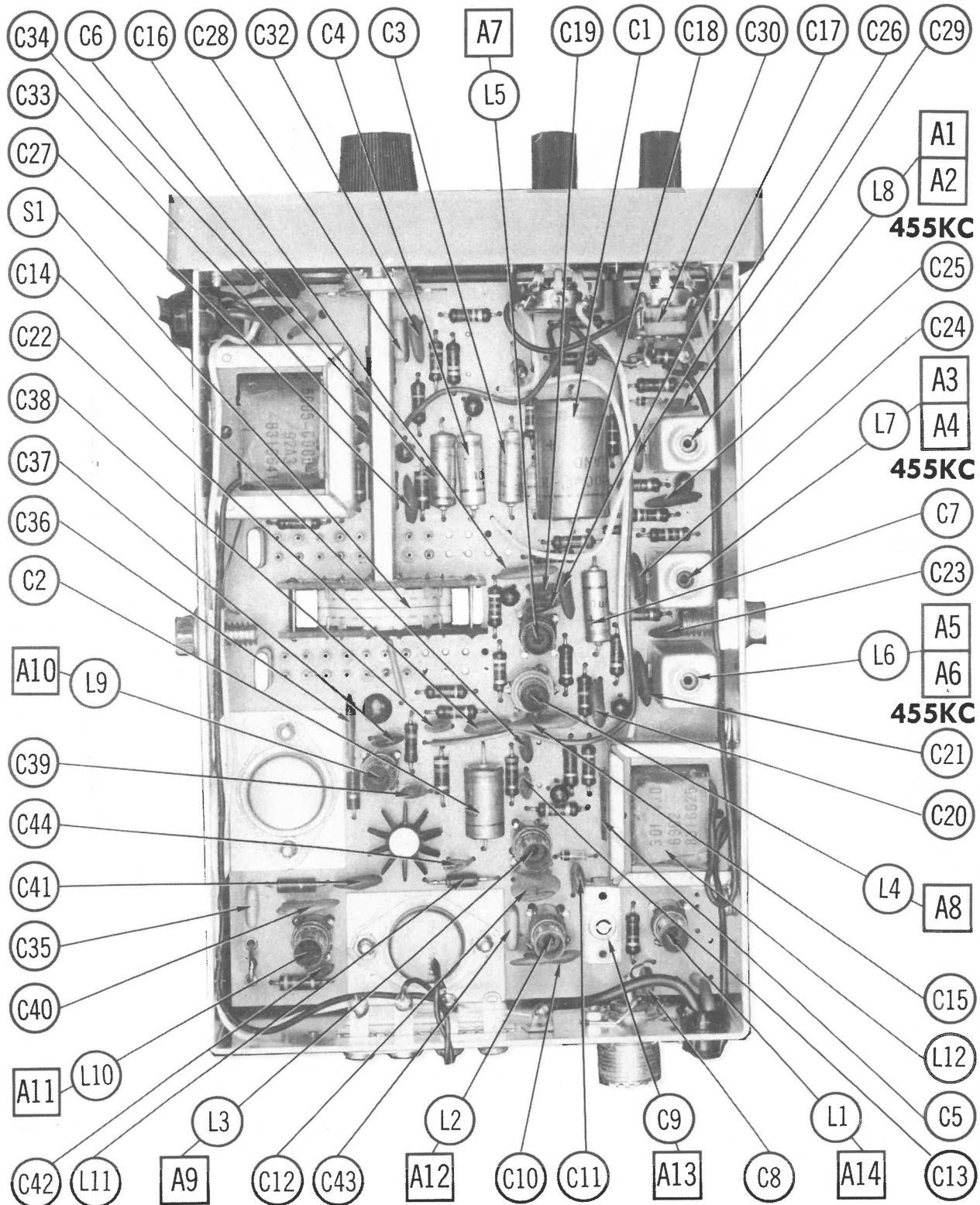
INDICATOR	ADJUST	REMARKS
Accurate Frequency Meter with Scope.	A10	Key Transmitter. Adjust for correct frequency. Key transmitter several times to ensure Oscillator starting properly.
RF Wattmeter or Field Strength MA Meter, and a 0-500ma DC Current Meter.	A11 thru A14	Insert DC Current Meter in Series with collector of Q13 (Final Amp.). Key Transmitter. Adjust for maximum RF Power output and MINIMUM DC current.

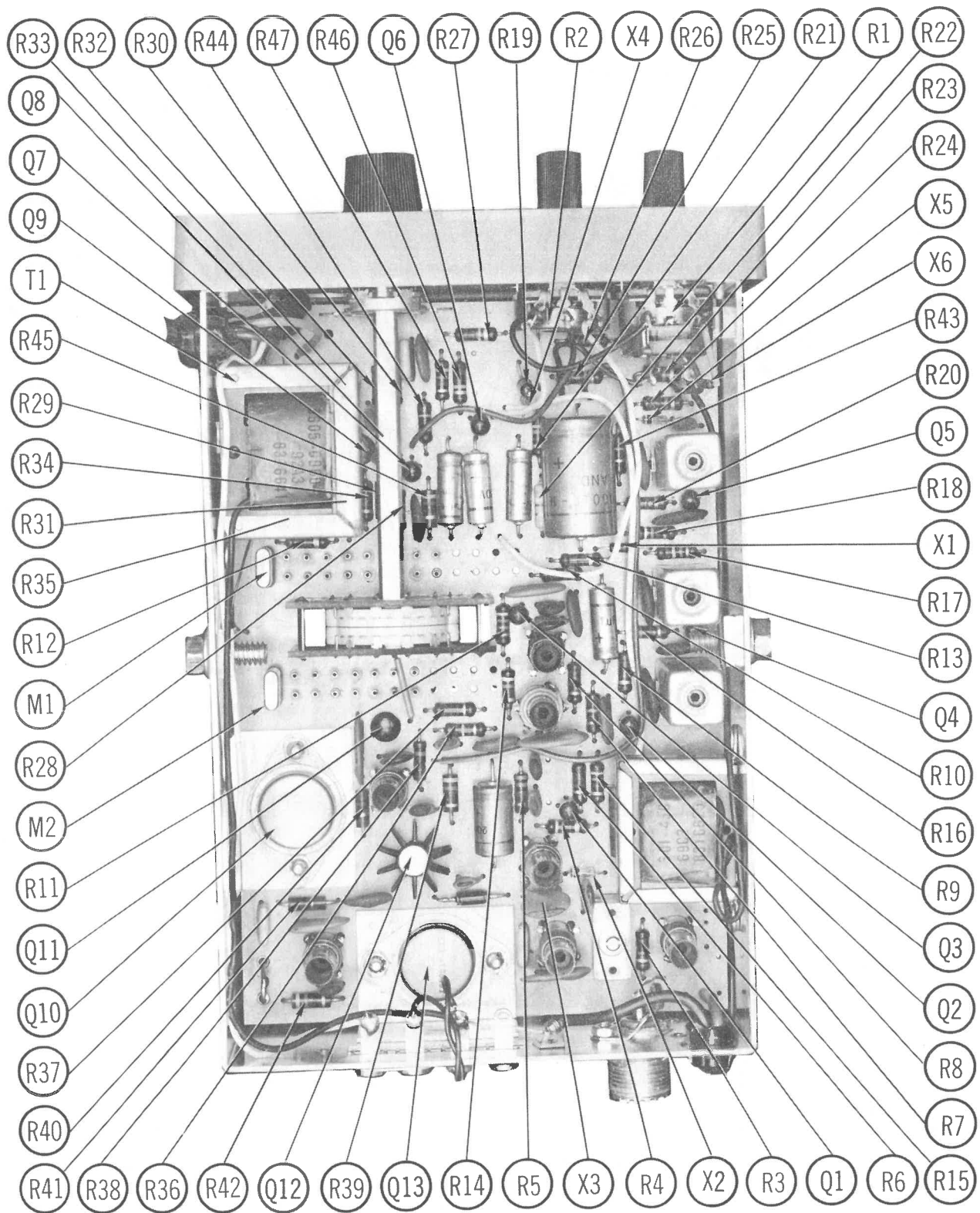
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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REALISTIC MODEL TRC-14 (21-032)







PARTS LIST AND DESCRIPTION

TRANSISTORS

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

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.
Q1	S1078 (SE3001)	RF Amp		DS-81	GE-20	TR-21	SK-3018	ECG 108
Q2	S1078 (SE3001)	Receive Mixer		DS-81	GE-20	TR-21	SK-3018	ECG 108
Q3	S1078 (SE3001)	Receive Oscillator		DS-81	GE-20	TR-21	SK-3018	ECG 108
Q4	S1079 (SE1002)	1st IF Amp		DS-81	GE-20	TR-21	SK-3018	ECG 108
Q5	S1079 (SE1002)	2nd IF Amp		DS-81	GE-20	TR-21	SK-3018	ECG 108
Q6	S1080 (SE1002)	AGC		DS-66	GE-10	TR-21	SK-3020	ECG 123
Q7	S1080 (SE1002)	Squelch		DS-66	GE-10	TR-21	SK-3020	ECG 123
Q8	S1079 (SE1002)	AF Amp		DS-66	GE-10	TR-21	SK-3020	ECG 123
Q9	2N3638	AF Amp			GE-22	TR-19		ECG-129
Q10	40465 (SE3033)	Output-Modulator			GE-14	TR-26	SK-3027	ECG 130
Q11	2N3641	XMTR Oscillator		DS-81	GE-17	TR-22	SK-3018	ECG 108
Q12	SE8010	XMTR Driver						
Q13	SE3034	Final Amp						

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	1N4738		1ZM8.2				8.2Volt Zener
X2	1N34A	1N34AS	1N34A	ECG 109			
X3	1N34A	1N34AS	1N34A	ECG 109			
X4	1N34A	1N34AS	1N34A	ECG 109			
X5	1N34A	1N34AS	1N34A	ECG 109			
X6	1N34A	1N34AS	1N34A	ECG 109			

ELECTROLYTIC CAPACITORS

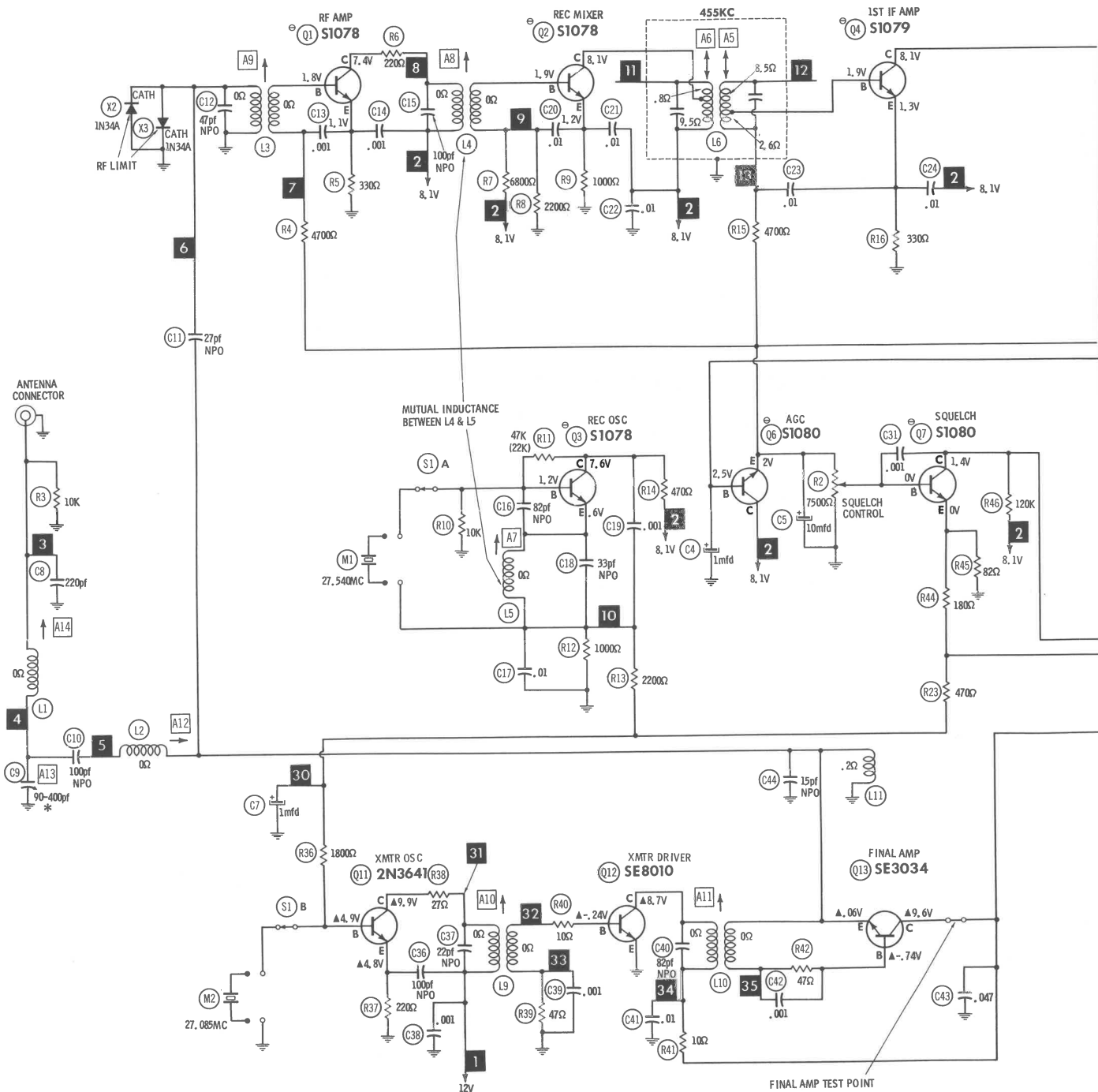
ITEM No.	RATING	REPLACEMENT DATA						
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	1000 15V		PRS1295	EA30-1000	BR1000-25		TC2510	TL-1166.5
C2	200 10V		CRE431A	EA15-250	NLW200-12	MT1-23	TT10X200	TL-1137
C3	10 25V		CRE607A	EA30-10	NLW10-25	MT1-5	TT25X10	TL-1204
C4	1 40V		CRE750A	EA50-2	NLW1-50	MT1-1	TT50X1	TL-1300
C5	10 25V		CRE607A	EA30-10	NLW10-25	MT1-5	TT25X10	TL-1204
C6	32 10V		CRE413A		NLW35-12	MT1-14	TT12X35	TL-1132
C7	1 40V		CRE750A	EA50-2	NLW1-50	MT1-1	TT50X1	TL-1300

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C8	220 10%			CPR-220J	CD15E221J500	DM-15-221	SX322	MS-322
C9	90-400							
C10	100 NPO 10%		NPO-DI 100	DTZ-100	CV601CG101K	CCTO-101	CNO310	10TCC-T10
C11	27 NPO 10%			TCZ-27		CCTO-270	CNO427	10TCC-Q27
C12	47 NPO 10%			DTZ-47	CX601CG470K	CCTO-470	CNO447	10TCC-Q47
C13	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C14	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C15	100 NPO 10%		NPO-DI 100	DTZ-100	CV601CG101K	CCTO-101	CNO310	10TCC-T10
C16	82 NPO 10%			DTZ-82		CCTO-82	CNO482	10TCC-Q82
C17	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C18	33 NPO 10%		NPO-DI 33	DTZ-33	CS601CG330K	CCTO-330	CNO433	10TCC-Q33
C19	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C20	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C21	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C22	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C23	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C24	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C25	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C26	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C27	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C28	.047		DBE6S47	DD-503	DMF4S47	4DP-3-473	PVC4147	4PS-S47
C29	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C30	.03		DBE6S33	DD-303	DMF4S33	4DP-2-333	PVC6133	4PS-S33
C31	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C32	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C33	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C34	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C35	.047		DBE6S47	DD-503	DMF4S47	4DP-3-473	PVC4147	4PS-S47
C36	100 NPO 10%		NPO-DI 100	DTZ-100	CV601CG101K	CCTO-101	CNO310	10TCC-T10
C37	22 NPO 10%		NPO-DI 22	DTZ-22	CV601CG220K	CCTO-220	CNO422	10TCC-Q22
C38	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C39	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C40	82 NPO 10%			DTZ-82		CCTO-82	CNO482	10TCC-Q82
C41	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C42	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C43	.047		DBE6S47	DD-503	DMF4S47	4DP-3-473	PVC4147	4PS-S47
C44	15 NPO 10%		NPO-DI 15	DTZ-15	CZ601CG150K	CCTO-150	CNO415	10TCC-Q15
C45	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10

(CONTINUED ON PAGE 98)

REALISTIC MODEL TRC-14 (21-032)



* NOMINAL VALUE, MAY VARY
▲ MEASURED IN TRANSMIT POSITION

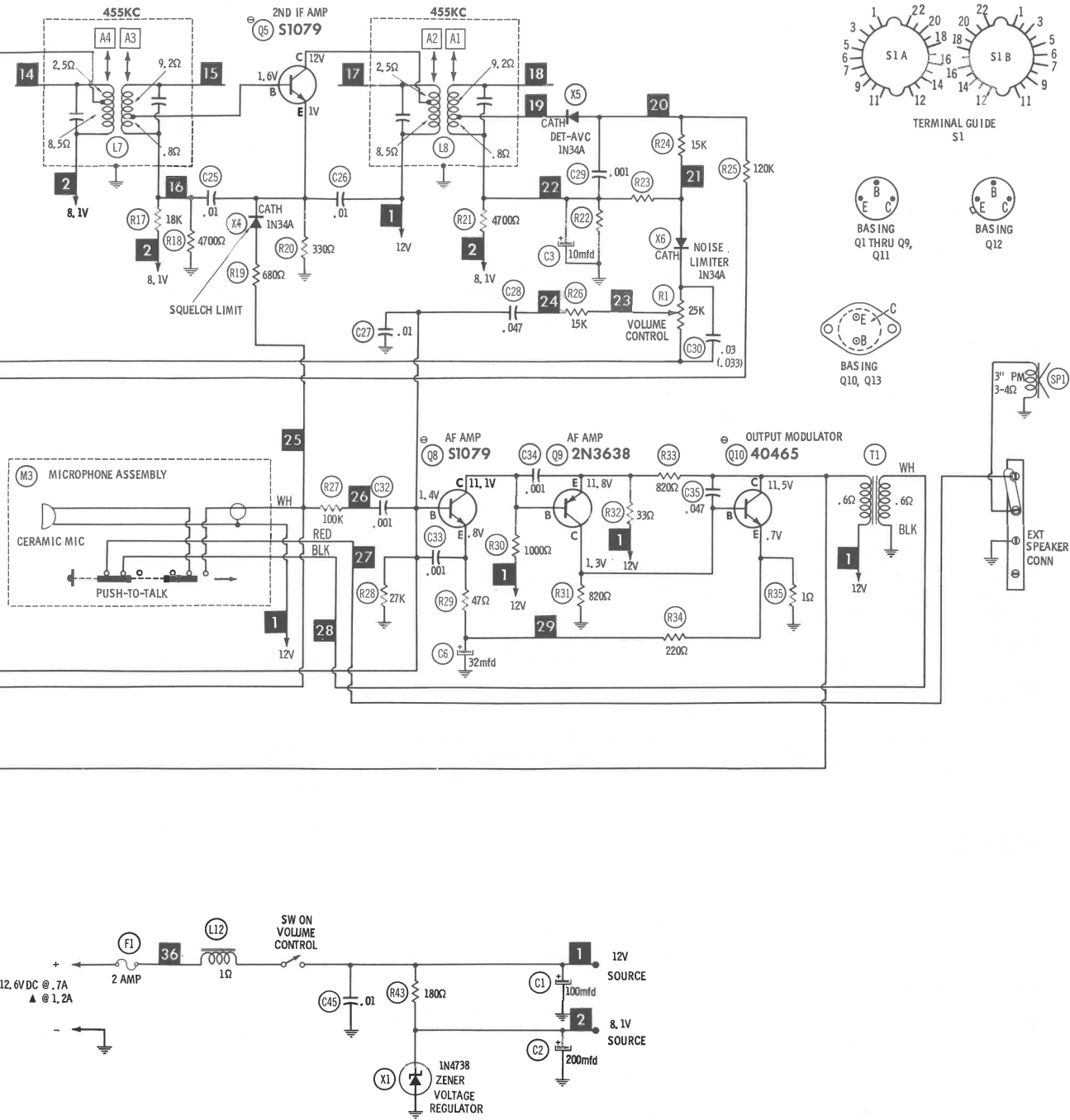
Resistors are 1/2 watt or less and rated
10% or 20% unless otherwise indicated.

- See parts list
- 1. Voltage measurements taken with vacuum tube voltmeter.
- 2. All controls set for normal operation, no signal applied.
- 3. Measured values are from socket pin or terminal to common ground.
- 4. All terminals viewed from bottom unless otherwise designated.
- 5. Numbers assigned to terminals may not be found on the unit.
- 6. Supply voltage maintained at rated value for voltage readings.
- 7. Resistance measurements not given because of the wide variation in internal resistance of transistor.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

with **CIRCUITRACE**

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REALISTIC MODEL TRC-14 (21-032)

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 & Switch	25K	(4703-0000-023)	F1-25K,SSK102, KR-1	A47-25K,SKSS-3, SWE-12 or (NP-25K-S, UP-C-400,NWE-12)	Q11-120,76-1 or (BU1,CF11,SS1, GC)*	UA253L,SK3500, US41 or (RU253L,SL38, SK3500,US41) or (U29,US26)
R2	Squelch	7500	(4703-0000-024)	F1-7500,SSK102	A47-7500-S,KSS-3 or (NP-7500-S, UP-C-400)	Q11-115 or (BU1,CF9,SS1, DC1)*	RU752L,SL38, SK3500 or (UA14L,SK3500) or (U20)

* "SNAPTROL".

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11	Antenna Loading Pi Network RF Input RF Interstage Receive Oscillator Input IF Interstage IF Output IF XMTR Oscillator Buffer RFC (luh)	(5603-0000-013) (5603-0000-014) (5603-0000-015)		19-1000	74F106AP T805

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L12	1.2A DC Transmit	1	8.5mh	(1808-0000-002)	C-4095	TC-2	TR-155	TY17XT	

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T1	12.8	4	(5605-0000-010)					

SPEAKER

ITEM No.	TYPE				REPLACEMENT DATA			NOTES
					MFGR. PART No.	JENSEN PART No.	QUAM PART No.	
SP1	3"	PM	4 ohms		(1301-0000-006)	3K7	30A05	

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	3AG, 2A, 250V			AGC 2	HHJ	312003	155020	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1 M2 M3 S1	Crystal Crystal Microphone Assembly Switch, Selector		Receive 27.540 (Channel 11) XMTR 27.085 (Channel 11) Ceramic Trollex

WIRING DATA

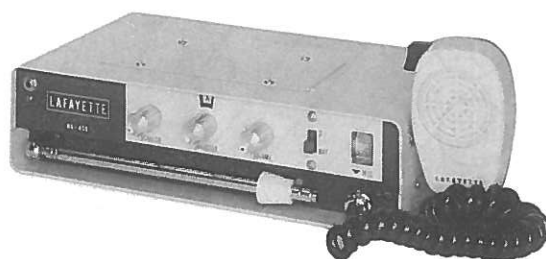
General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest Loss (RG-8/U Type) 8237 Low Loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use 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[®]

TRADE NAME : Lafayette Model HA-450 (99-3063L)
 (TELSAT)
 SUPPLIER : For Current Address, See Annual Index
 POWER SUPPLY : 12 Volts DC
 RATING : .053 Amp @ 12VDC (Receive)
 .342 Amp @ 12VDC (Transmit)
 TUNING RANGE : Any 6 CB Channels 1 thru 23



ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

A1, A2, A3, A4, A 8, A10 & A11.
 A5, A6, A7, A9.

GENERAL CEMENT: 9089, 8868, 8987
 GENERAL CEMENT: 9440

WALSCO: 2541, 2587, 2531-X
 WALSCO: 2501

RECEIVER ALIGNMENT

Connect an AC VTVM across Speaker Voice Coil. Turn Volume Control fully clockwise, turn Squelch Control fully counterclockwise.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01 to Emitter of Q2 (Rec. Mixer), low side to chassis. Tune to 455KC Modulation.	Any	A1, A2, A3, A4	Adjust for maximum.
High side thru .01 to external Antenna Receptacle, low side to chassis. Set frequency to 27.085MC. Channel 11 Mod.	11	A5, A6, A7	Adjust for maximum.

TRANSMITTER ALIGNMENT

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).

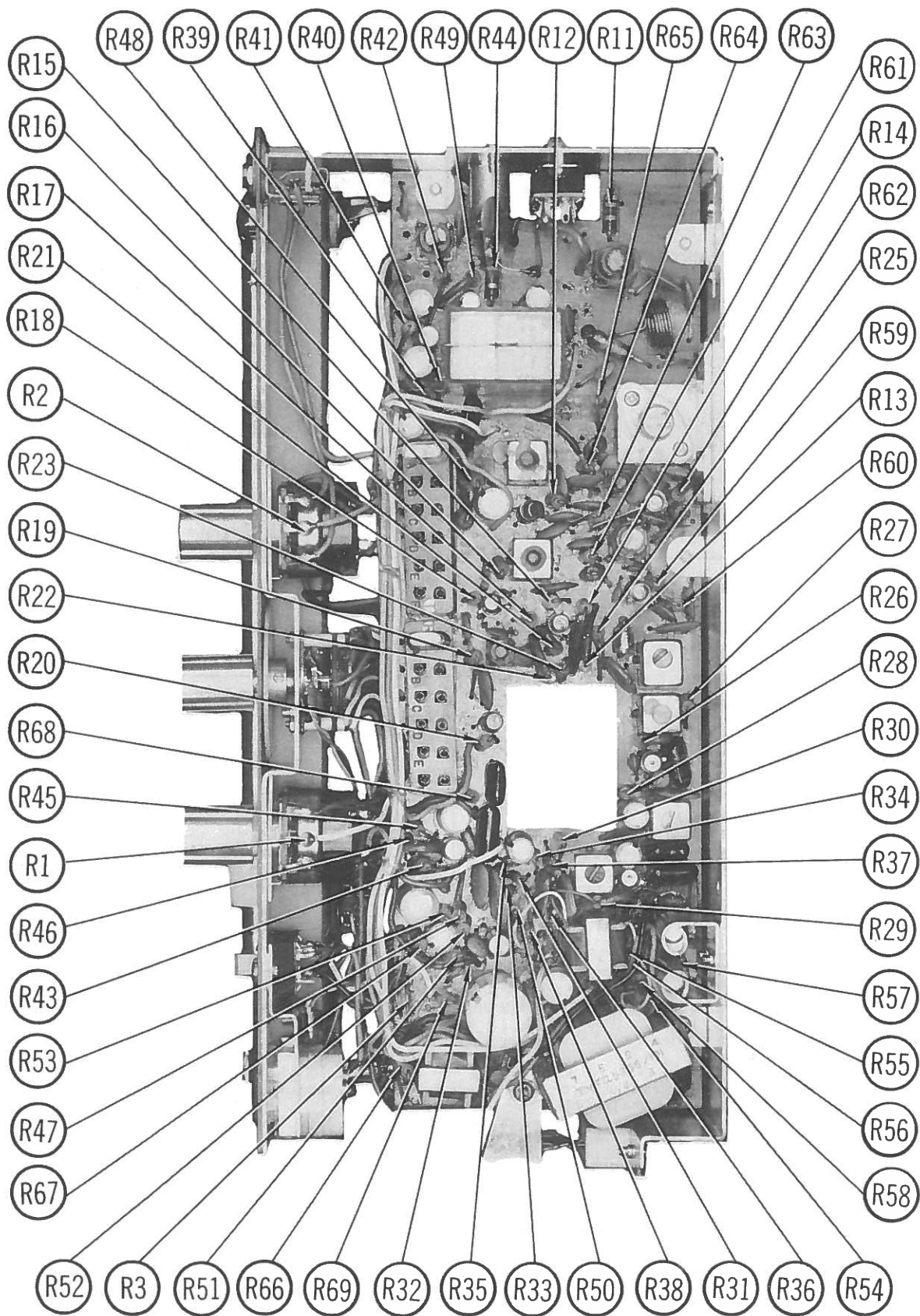
The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

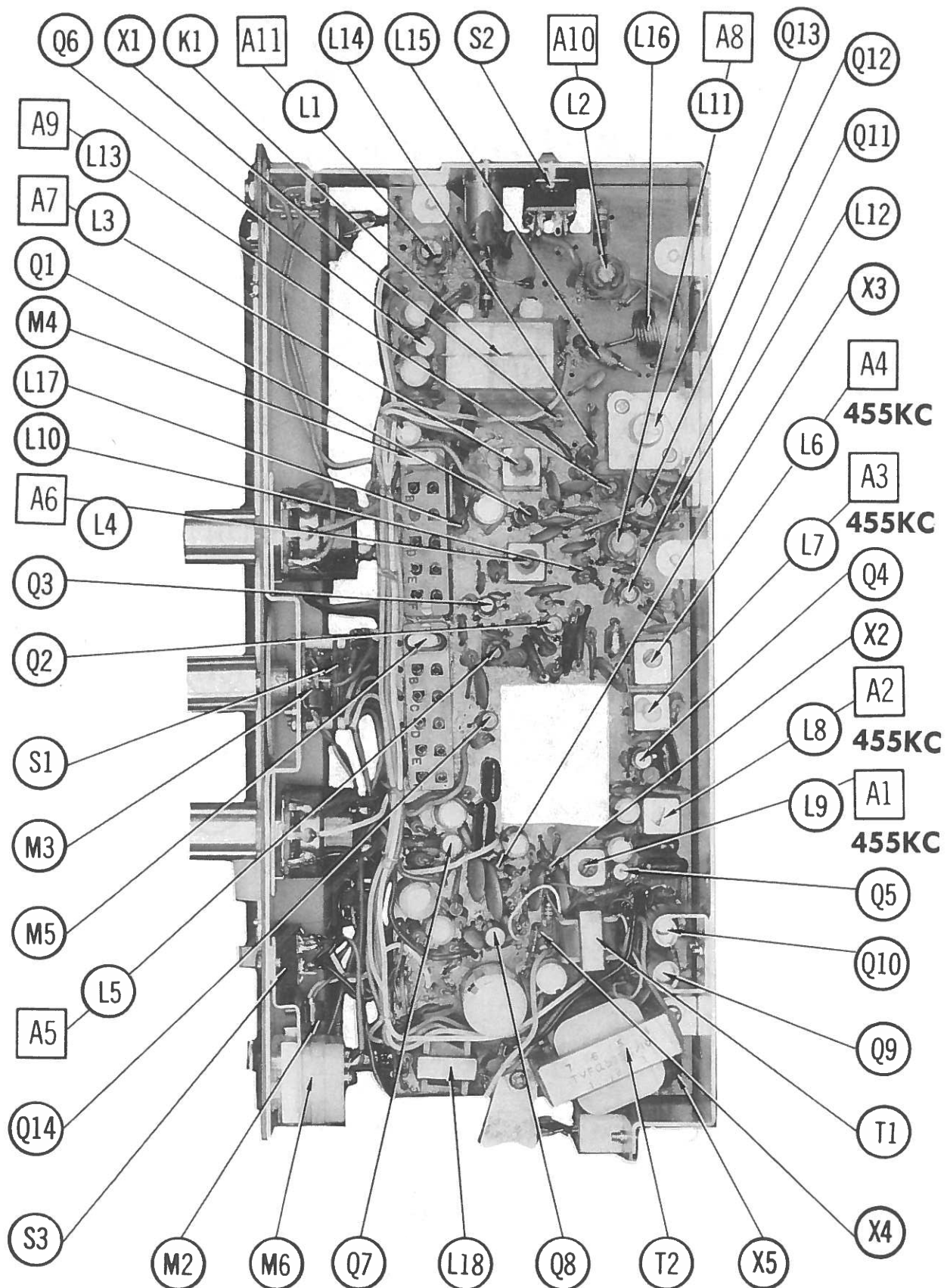
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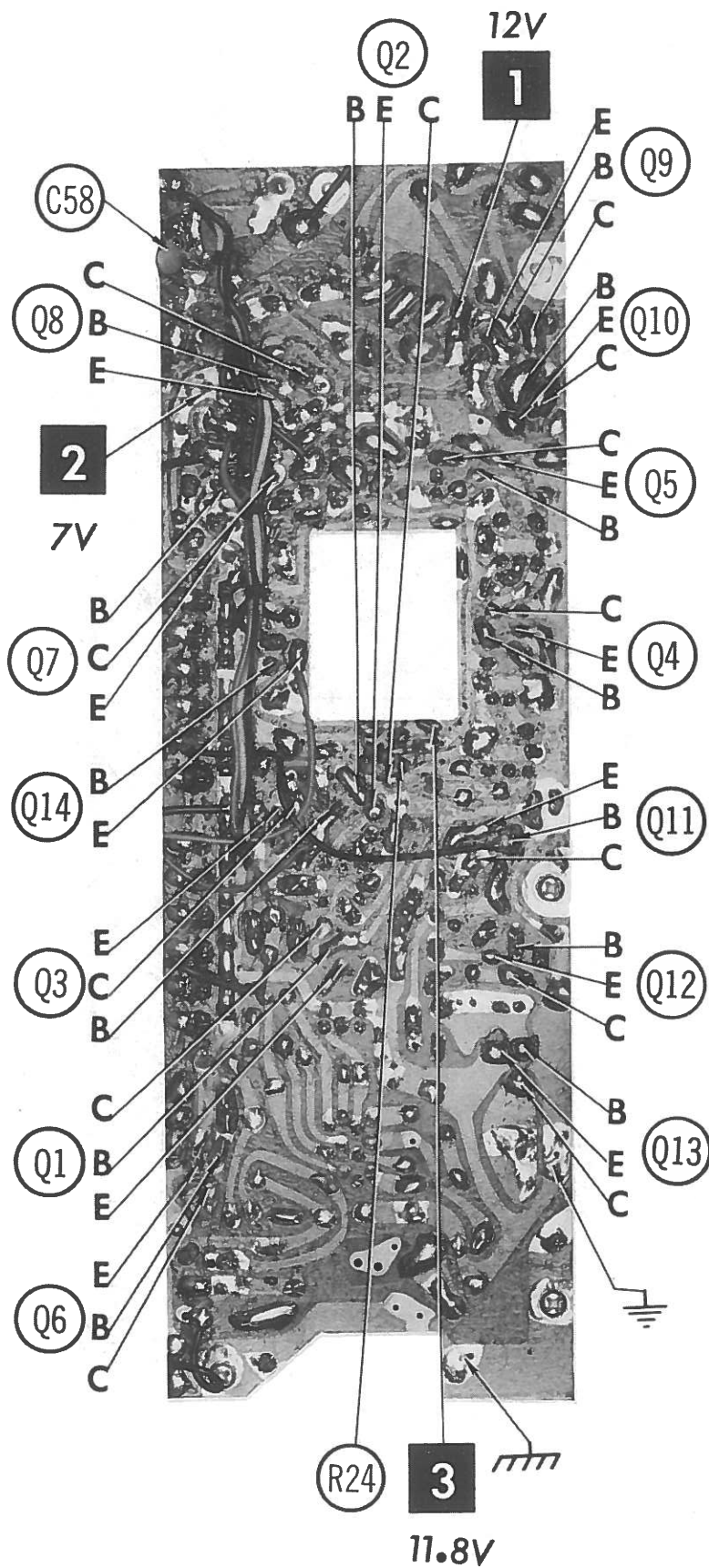
Connect either 50Ω dummy load or the normally used antenna system.

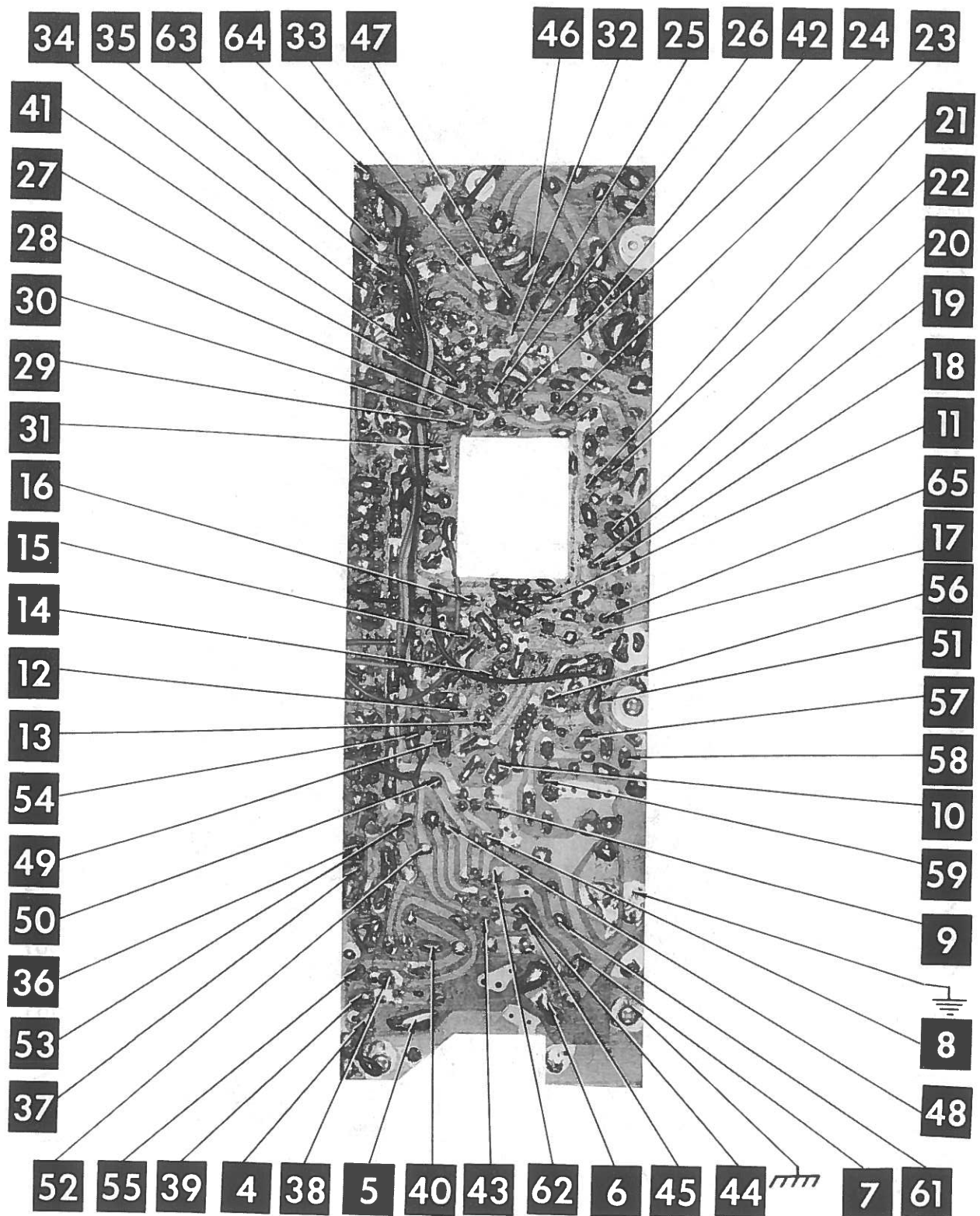
INDICATOR	ADJUST	REMARKS
RF Field Strength Meter or RF Watt Meter.	A8, A9, A10, A11	Adjust for maximum.
Hetrodyne or Digital Frequency Meter.		Check all Channels for proper frequency.

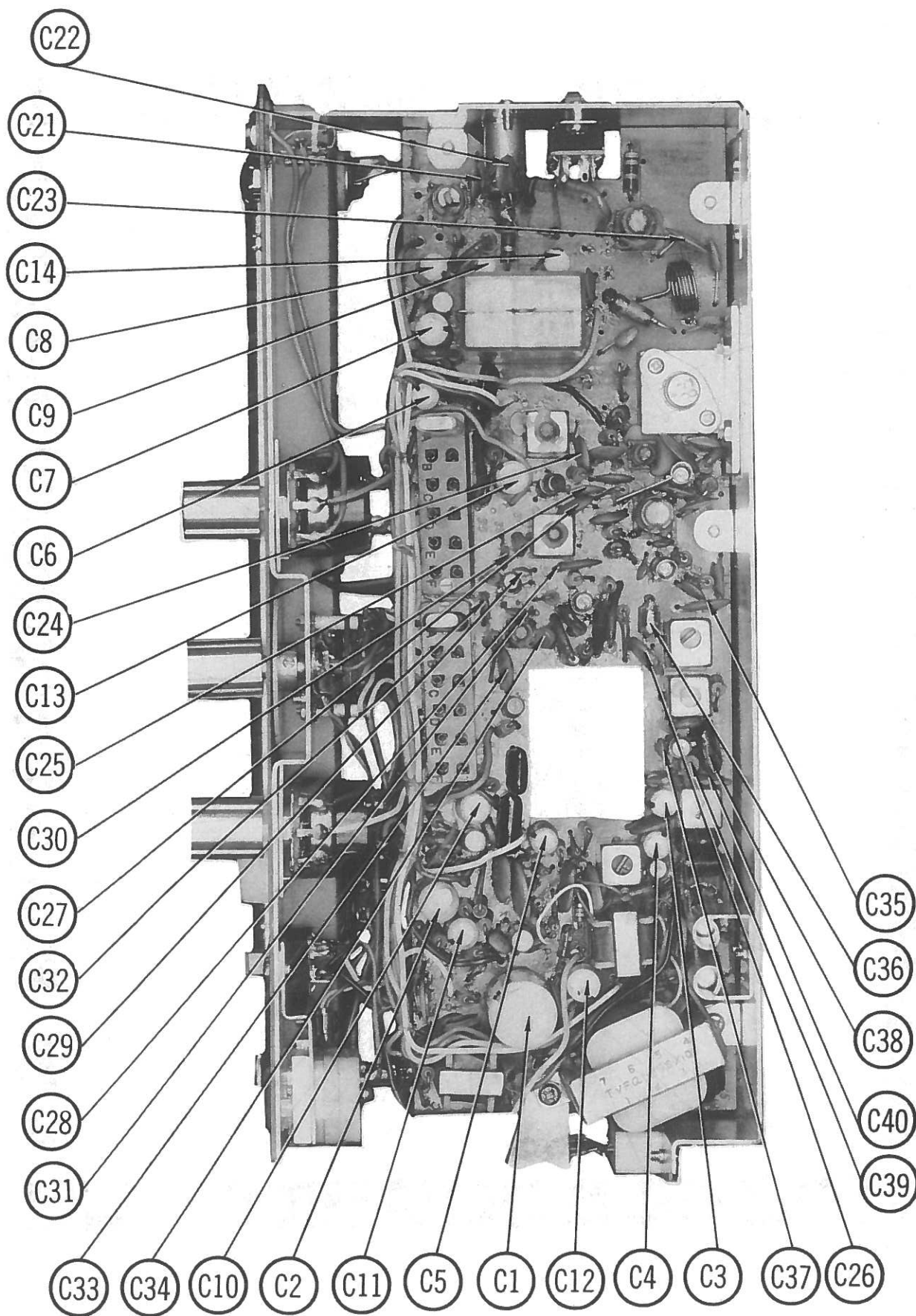
LAFAYETTE MODEL HA-450 (99-3063L)

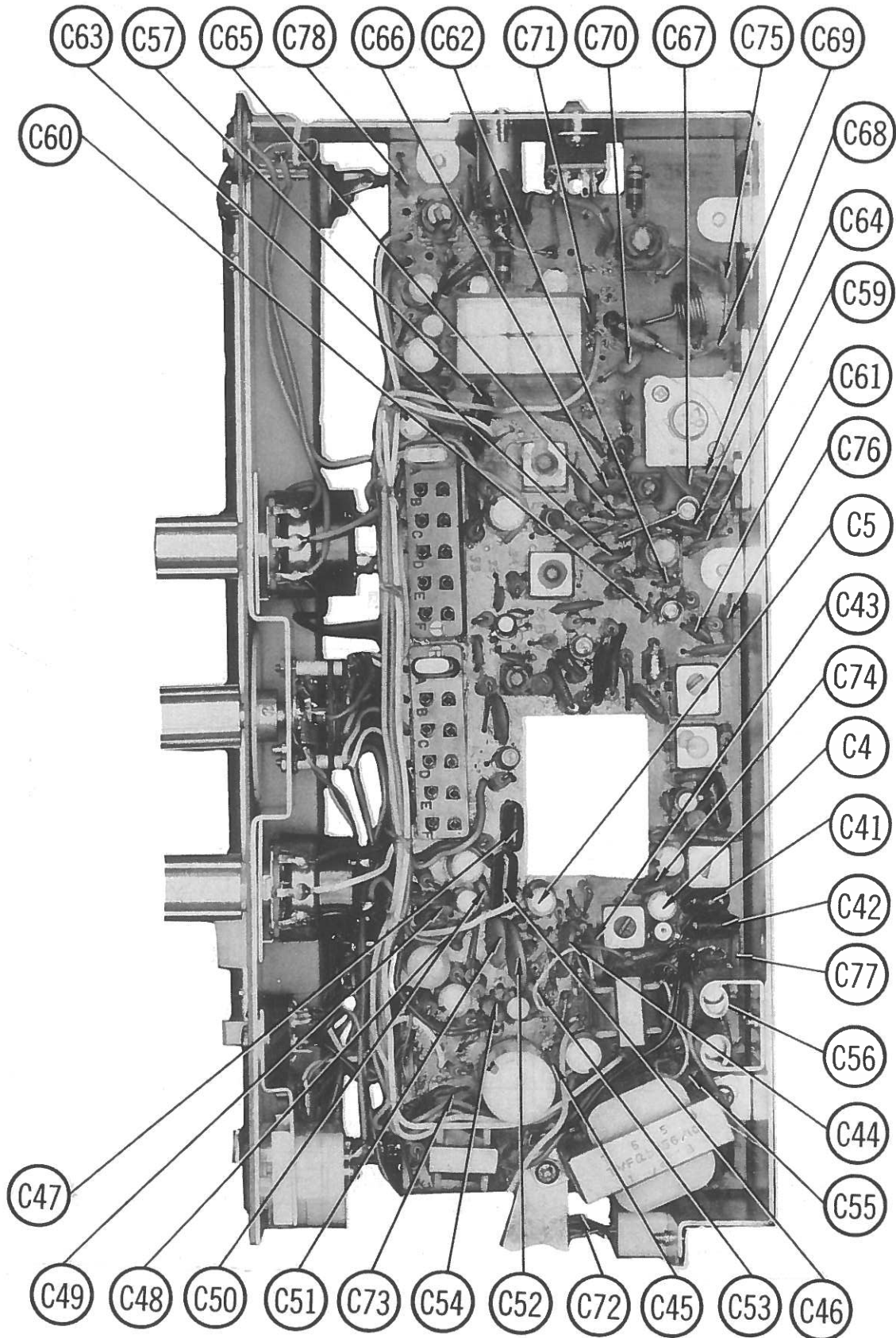


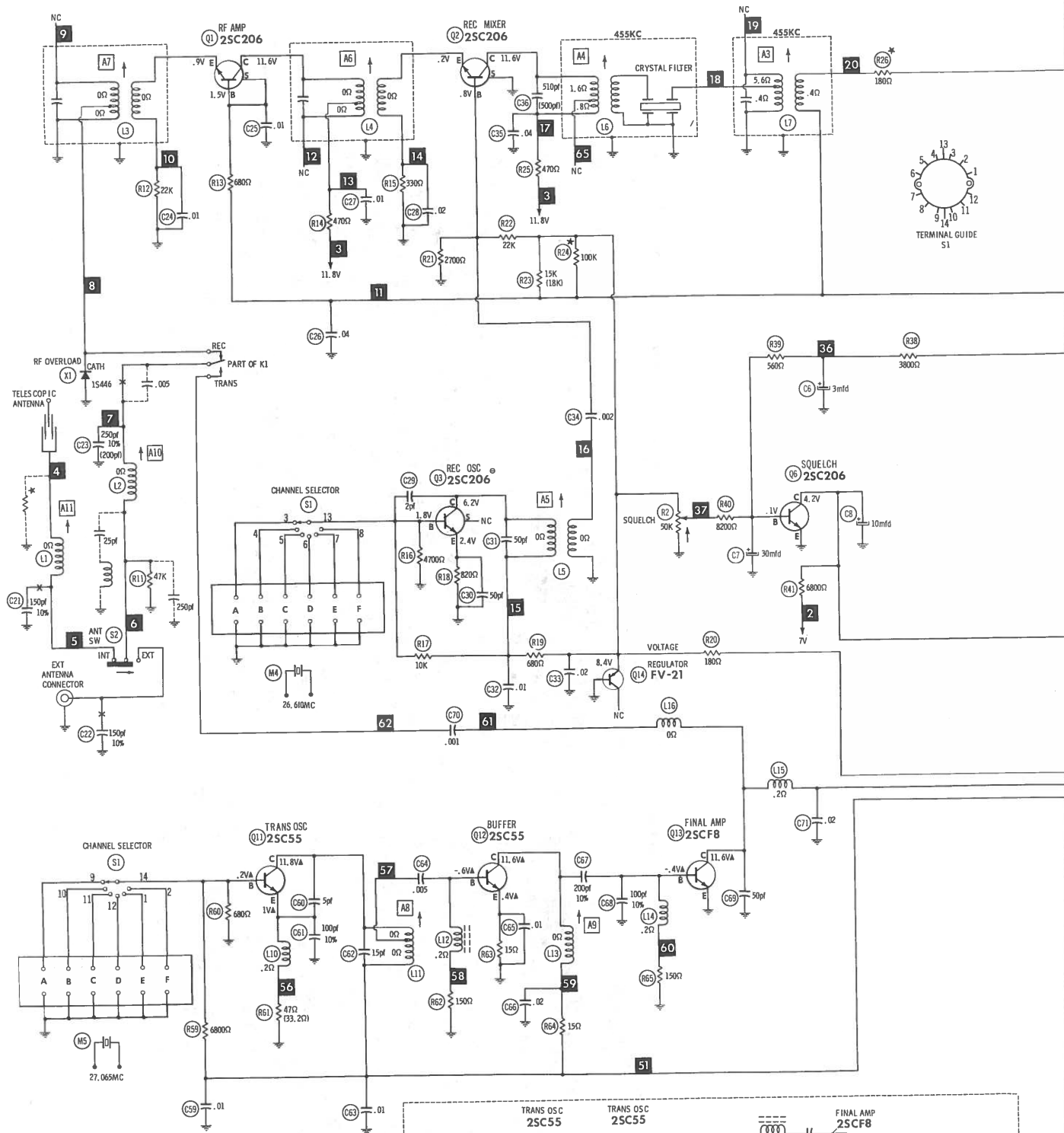












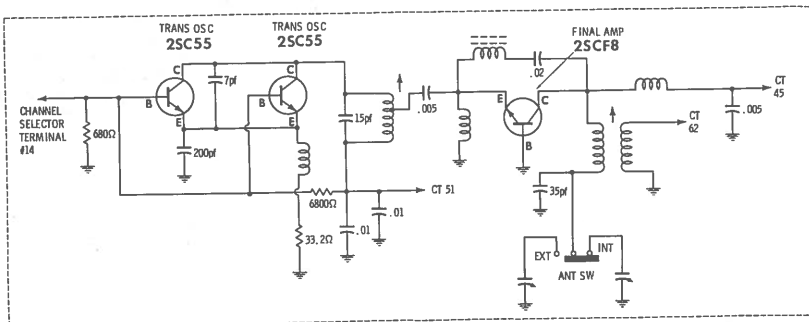
A MEASURED IN TRANSMIT POSITION

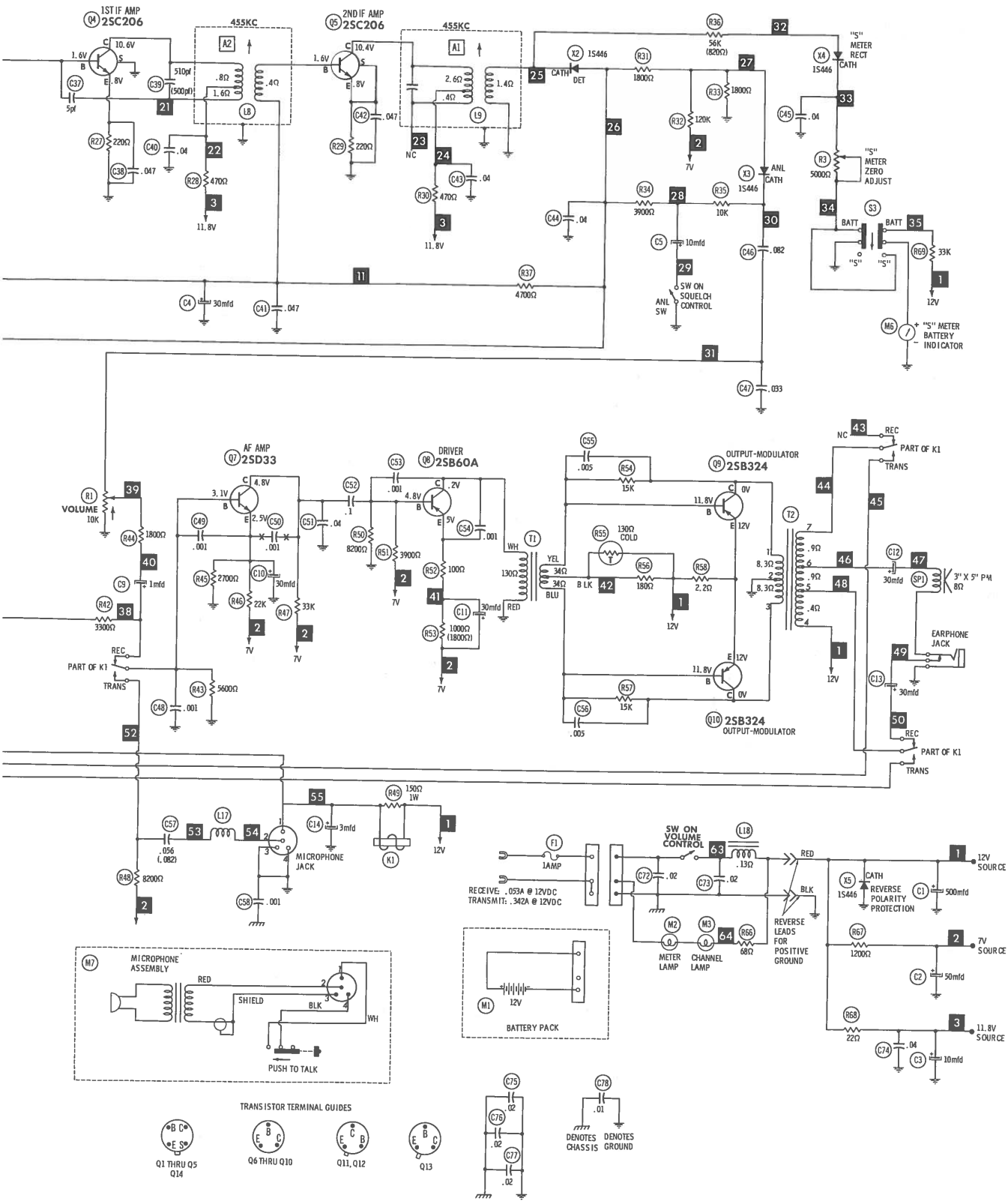
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- See parts list
- 1. Voltage measurements taken with vacuum tube voltmeter.
- 2. All controls set for normal operation, no signal applied.
- 3. Measured values are from socket pin or terminal to common ground.
- 4. All terminals viewed from bottom unless otherwise designated.
- 5. Numbers assigned to terminals may not be found on the unit.
- 6. Supply voltage maintained at rated value for voltage readings.
- 7. Resistance measurements not given because of the wide variation in internal resistance of transistor.

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PARTS LIST AND DESCRIPTION

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

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.
Q1	2SC206	RF Amp		DS-81	GE-17	TR-22	SK-3018	ECG 108
Q2	2SC206	Mixer		DS-81	GE-17	TR-22	SK-3018	ECG 108
Q3	2SC206 (2SC56)	Receive Oscillator		DS-81	GE-17	TR-22	SK-3018	ECG 108
Q4	2SC206	1st IF Amp		DS-81	GE-17	TR-22	SK-3018	ECG 108
Q5	2SC206	2nd IF Amp		DS-81	GE-17	TR-22	SK-3018	ECG 108
Q6	2SC281	Squelch		DS-81	GE-17	TR-22	SK-3018	ECG 108
Q7	2SD33	AF Amp			GE-8	TR-09	SK-3010	ECG 103
Q8	2SB60A	Driver		DS-26	GE-2	TR-05	SK-3004	ECG 102
Q9	2SB324	Output-Modulator		DS-26	GE-2	TR-05	SK-3004	ECG 102
Q10	2SB324	Output-Modulator		DS-26	GE-2	TR-05	SK-3004	ECG 102
Q11	2SC55	Transmit Oscillator		DS-74	GE-20	TR-21	SK-3018	ECG 108
Q12	2SC55	Buffer		DS-74	GE-20	TR-21	SK-3018	ECG 108
Q13	2SCF8	Final Amp						
Q14	FV-21	Regulator						

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	1S446	1N34AS	1N34A	ECG 109			
X2	1S446	1N34AS	1N34A	ECG 109			
X3	1S446	1N34AS	1N34A	ECG 109			
X4	1S446	1N34AS	1N34A	ECG 109			
X5	1S446	1N34AS	1N34A	ECG 109			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		LAFAYETTE PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	500 15V		BCD15500	EA15-500	BR500-15	QT1-30	MTV500DN15	TL-1166
C2	50 15V		BCD15050	EP15-50	NLW50-15	MT1-16	MTV50CB15	TE-1160
C3	10 15V		BCD15010	EP15-10	NLW10-15	MT1-6	MTV10CB15	TE-1155
C4	30 15V		BCD15035	EP15-50	NLW30-15	MT1-14	MTV30CB25	TE-1158
C5	10 10V		BCD10010	EP15-10	NLW10-15	MT1-6	PET1340	TE-1128
C6	3 25V		BCD25003	EP30-5	NLW3-25	MT1-3	MTV3CB50	TE-1201.1
C7	30 15V		BCD15035	EP15-50	NLW30-15	MT1-14	MTV30CB25	TE-1158
C8	10 15V		BCD15010	EP15-10	NLW10-15	MT1-6	MTV10CB50	TE-1155
C9	1 25V		BCD25001	EP30-5	NLW1-50	MT1-1	MTV1CB50	TE-1200
C10	30 15V		BCD15035	EP15-50	NLW30-15	MT1-14	MTV30CB25	TE-1158
C11	30 15V		BCD15035	EP15-50	NLW30-15	MT1-14	MTV30CB25	TE-1158
C12	30 15V		BCD15035	EP15-50	NLW30-15	MT1-14	MTV30CB25	TE-1158
C13	30 15V		BCD15035	EP15-50	NLW30-15	MT1-14	MTV30CB25	TE-1158
C14	3 50V		BCD50003	EP50-5	NLW3-50	MT1-3	MTV3CB50	TE-1302

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C21	150 10%		GPD X5F151K	DD-151		CCD-151	GP315	10TS-T15
C22	150 10%		GPD X5F151K	DD-151		CCD-151	GP315	10TS-T15
C23	250 10%		GPD X5F251F	DD-251		CCD-251	GP325	10TS-T25
C24	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C25	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C26	.04 50V		TTP-05	DD-403	HOV101ZV503Z		TA150	TGL-S50
C27	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C28	.02 50V		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C29	2		NPO-DI 2.2	DTZ-2R2	CZ601CJ2R2D	CCTO-2R2	CN0522	10TCC-V22
C30	50		GPD X5F500K	DD-500	JBZ601YP500K	CCD-500	GP450	10TS-Q50
C31	50		GPD X5F500K	DD-500	JBZ601YP500K	CCD-500	GP450	10TS-Q50
C32	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C33	.02 50V		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C34	.002			CPR-2200J	CD19F222J500	DM-19-222J	SX222	MS-222
C35	.04			DD-403			GP140	
C36	510			CPR-510J	CD19F511K500	DM-19-511J	SX351	MS-351
C37	5		NPO-DI 4.7	DTZ-4R7	CZ601CH5R0D	CCTO-4R7	CN0547	10TCC-V47
C38	.047		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C39	510			CPR-510J	CD19F511K500	DM-19-511J	SX351	MS-351
C40	.04		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C41	.047		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C42	.047		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C43	.04 50V		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C44	.04 50V		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C45	.04		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C46	.082							
C47	.033		GPD Z5V303P	DD-303		CCD-303	GP130	10TS-S30
C48	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10

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.
C49	.001	50V	GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C50	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C51	.04		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C52	.1		TTP-1	CK-104	HOV101ZV104Z		TA010	TG-P10
C53	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C54	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C55	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C56	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C57	.056							
C58	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C59	.01	10%	GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C60	5		NPO-DI 4.7	DTZ-4R7	CZ601CHS0D	CCTO-4R7	CN0547	10TCC-V47
C61	100		GPD X5F101K	DD-101	JBZ601YP101K	CCD-101	GP310	10TS-T10
C62	15		NPO-DI 15	DTZ-15	CZ601CG150J	CCTO-150	CN0415	10TCC-Q15
C63	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C64	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C65	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C66	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C67	200		GPD X5F201K	DD-201	JBZ601YP221K	CCD-201	GP320	10TS-T20
C68	100		GPD X5F101K	DD-101	JBZ601YP101K	CCD-101	GP310	10TS-T10
C69	50	10%	GPD X5F500K	DD-500	JBZ601YP500K	CCD-500	GP450	10TS-Q50
C70	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C71	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C72	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C73	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C74	.04		TTP-05	CK-503	HOV101ZV503Z		TA150	TGL-S50
C75	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C76	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C77	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C78	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLARQSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume & Power Switch	10K		F2-10K (1), SSK012, KR-1	A47-10K-Z (1), KSS-3, SWE-12 or (NP-10K-Z (1), UP-C-400, NWE-12)	Q13-116 (1), 76-1 or (BU1 (1), CF61, SS6, GC)*	RU14A, SL36, SL3250, US41 or (UA14A (1), SK750, US41) or (U18 (1), US26)
R2	Squelch & Anl. Switch	50K		F1-50K (1), SSK012, KR-1	A47-50K-S (1), KSS-3, SWE-12 or (NP-50K-S (1), UP-C-400, NWE-12)	Q11-123 (1), 76-1 or (BU1 (1), CF12, SS6, GC)*	RU54L, SL36, SL3250, US41 or (UA54L (1), SK750, US41) or (U35 (1), US26)
R3	"S" Meter Zero	5000		T-5000 (2)		X201R502B (2)	MTC53L1 (2)

(1) Enlarge mounting hole.

(2) Cut off one of outside terminals and bend terminals to fit "PC" board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFGR. PART No.			IRC PART No.	WORKMAN PART No.	MFGR. PART No.
R55	130 (Cold)		FR191						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Antenna Loading				
L2	Pi Network				
L3	Antenna Input				
L4	RF Amp				
L5	Receive Oscillator				
L6	Input IF				
L7	Interstage IF		16-9027	2067	
L8	Interstage IF		16-9027	2067	
L9	Output IF		16-9028	2068	
L10	RFC (3uh)		19-1002	74F336AP	T816
L11	Transmit Oscillator				
L12	RFC (12.5uh)		19-1010	4624	T862
L13	Buffer				
L14	RFC (13uh)		19-1006	74F125AP	
L15	RFC (12uh)		19-1005	74F125AP	
L16	Final Amp				
L17	RFC (2.25uh)		19-1002	74F226AP	T812

LAFAYETTE MODEL HA-450 (99-3063L)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	LAFAYETTE PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L18	342ma*	.13	310uh						* Transmit

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	LAFAYETTE PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	1.8	1							

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	462	8						

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA			NOTES
				LAFAYETTE PART No.	JENSEN PART No.	QUAM PART No.	
SP1	3" X 5"	PM	8 ohms		P3X5X8	35A05Z8	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	1 Amp			AGC 1	HHJ	312001	155000	

BATTERIES

ITEM No.	VOLTAGE	MFGR. PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	12V		930 or AL-9 or HG9	1015 or E91 or E9	M1SR or MN1500 or ZM9	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay		Receive-Transmit
M1	Battery		Battery Pack 12V
M2	Lamp		Meter
M3	Lamp		Channel Indicator
M4	Crystal		26.610MC (Receive)
M5	Crystal		27.065MC (Transmit)
M6	Meter		"S" Meter - Battery Indicator
M7	Microphone Assembly		Ceramic
S1	Switch, Selector		
S2	Switch, Antenna		
S3	Switch, Meter-Battery		

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[®]

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.



COURIER MODEL 23 PLUS

ALIGNMENT INSTRUCTIONS

SUGGESTED ALIGNMENT TOOLS:

A1 thru A10, A20. GENERAL CEMENT: 8606, 8606L, 8869 WALSCO: 2543, 2544, 2588
 A11, A12, A13, A15, A16, A19. GENERAL CEMENT: 8609, 9090, 8867 WALSCO: 2517, 2519, 2586
 A14, A17, A18. GENERAL CEMENT: 8868, 8987, 9089 WALSCO: 2531-X, 2541, 2587

RECEIVER

Connect a DC VTVM from point Δ to chassis. Set to indicate Negative Voltage. Turn Volume Control to Mid-Range. Turn Squelch Control fully clockwise.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to Pin 1, (Grid) of V4, low side to chassis. Tune to 455KC.	Any	A1 thru A6	Adjust for maximum.
High side thru .01mfd to Pin 4, (Grid) of V2, low side to chassis. Tune to 6MC.	Any	A7, A8	Adjust for maximum.
High side thru .01mfd to Antenna Receptacle, low side to chassis. Tune to 27.085MC (Channel 11)	11	A9, A10, A11	Adjust for maximum.
Disconnect Antenna	Any	R4	Adjust R4 (Meter Zero Adjust) for "0" indication.

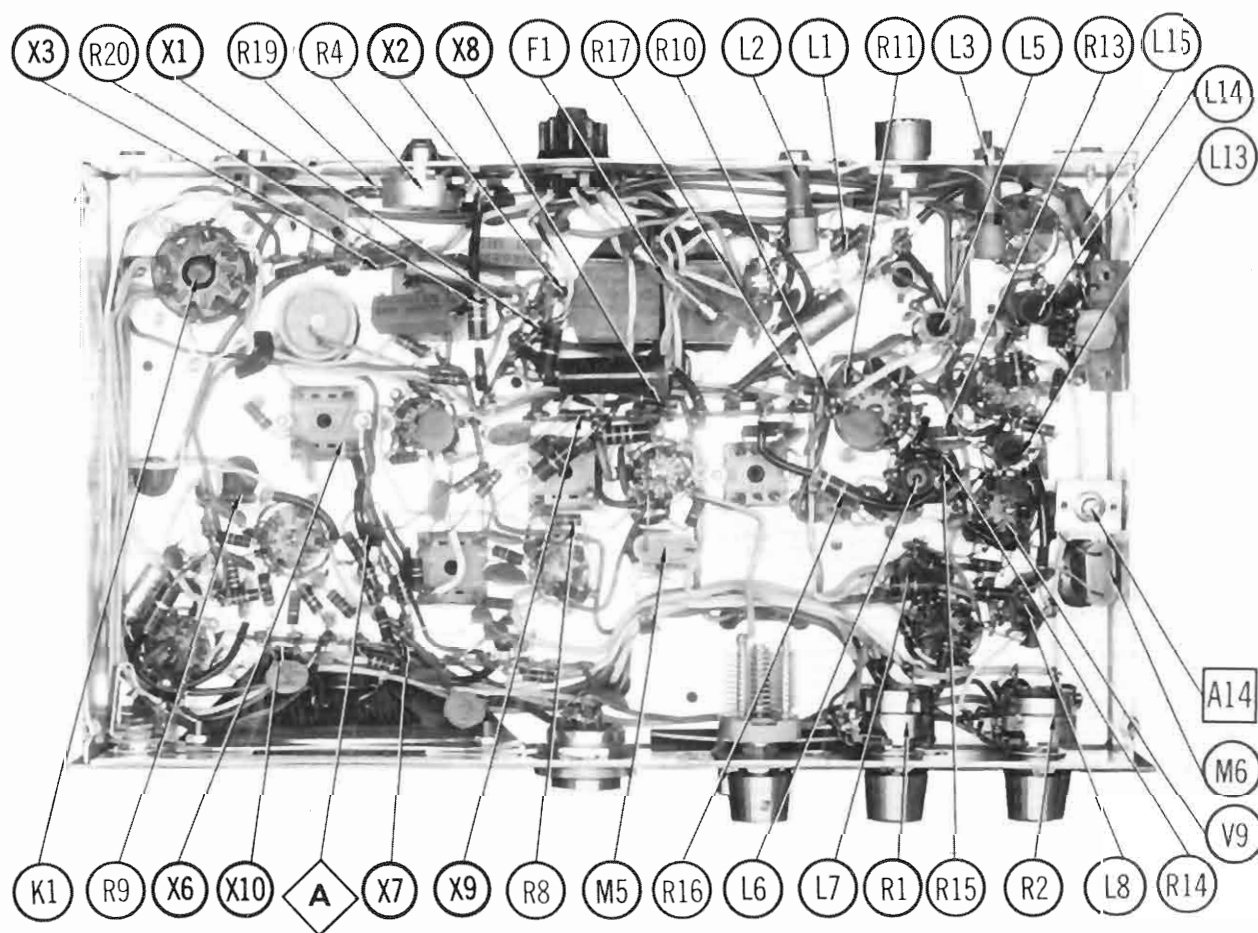
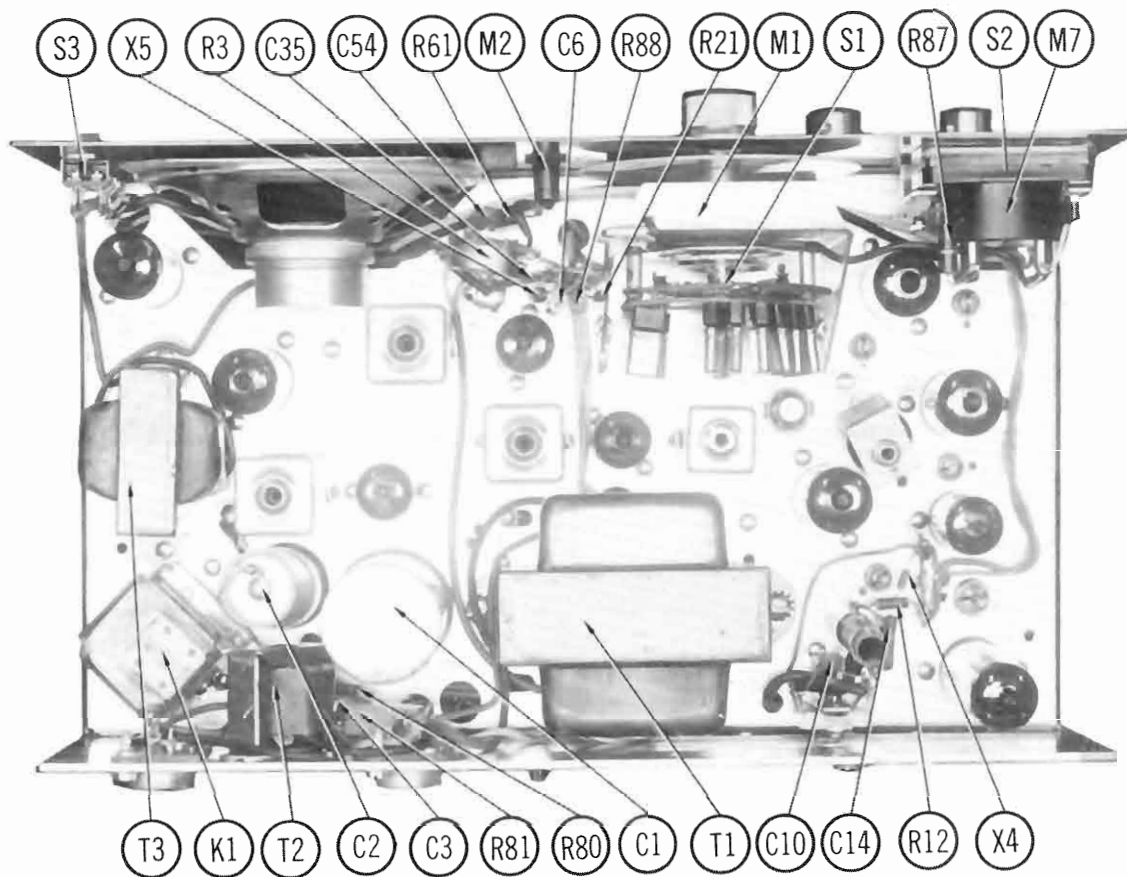
TRANSMITTER

INDICATOR	ADJUST	REMARKS
Accurate Frequency Meter	A12, A13, A14	Key transmitter. Adjust for correct frequency. Key transmitter several times to ensure Oscillator starting properly.
RF Watt Meter or Field Strength Meter and 0-100ma DC Current Meter.	A15 thru A18	Insert 0-100ma DC Current Meter in series with Pin 2 (Grid) of V11 (Final Amp). Key Transmitter. Adjust for MINIMUM RF Power Output. Repeat above steps until optimum performance is accomplished.
Nearby TV	A19, A20	Key Transmitter. Adjust for MINIMUM interference.

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

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COURIER MODEL 23 Plus



RESISTANCE MEASUREMENTS

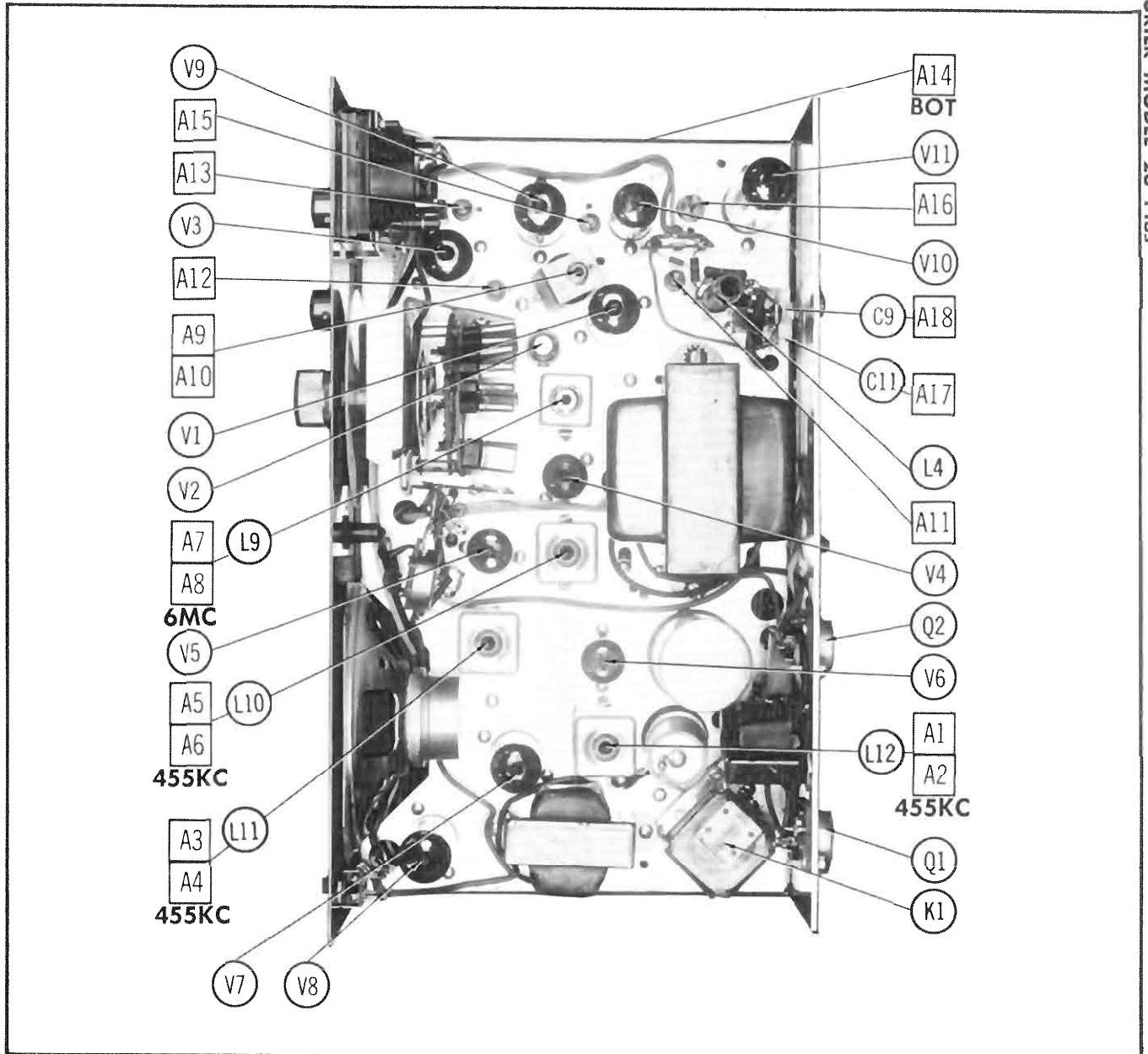
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12
V1	6BS8	1NF	1.2meg	100Ω	Fil	Fil	5000Ω†	300K	1NF	0Ω			
V2	6CW4	NC	48K†	NC	.2Ω	NC	NC	NC	1000Ω	NC	Fil	NC	Fil
V3	6GH8	30K†	100K	75K†	Fil	Fil	32K†	0Ω	0Ω	100K			
V4	12BE6	15K	0Ω	Fil	Fil	100K†	35K†	47K					
V5	12BA6	1.5meg	100Ω	Fil	Fil	85K†#	150K†#	100Ω					
V6	12BA6	100K	330Ω	Fil	Fil	3200Ω†	28K†#	330Ω					
V7	6EU7	Fil	Fil	TP	0Ω	1.5meg	110K†#	500K†#	5.5meg	0Ω			
V8	6BQ5	NC	470K	150Ω	Fil	Fil	NC	320Ω†	TP	1000Ω†			
V9	6GH8	70K†▲	100K	70K†▲	Fil	Fil	2000Ω†▲	0Ω	0Ω	47K			
V10	12BA6	68K	150Ω	Fil	Fil	2100Ω†▲	30K†▲	150Ω					
V11	6BQ5	NC	1.4meg	0Ω	Fil	Fil	NC	720Ω†	NC	12K†			
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12

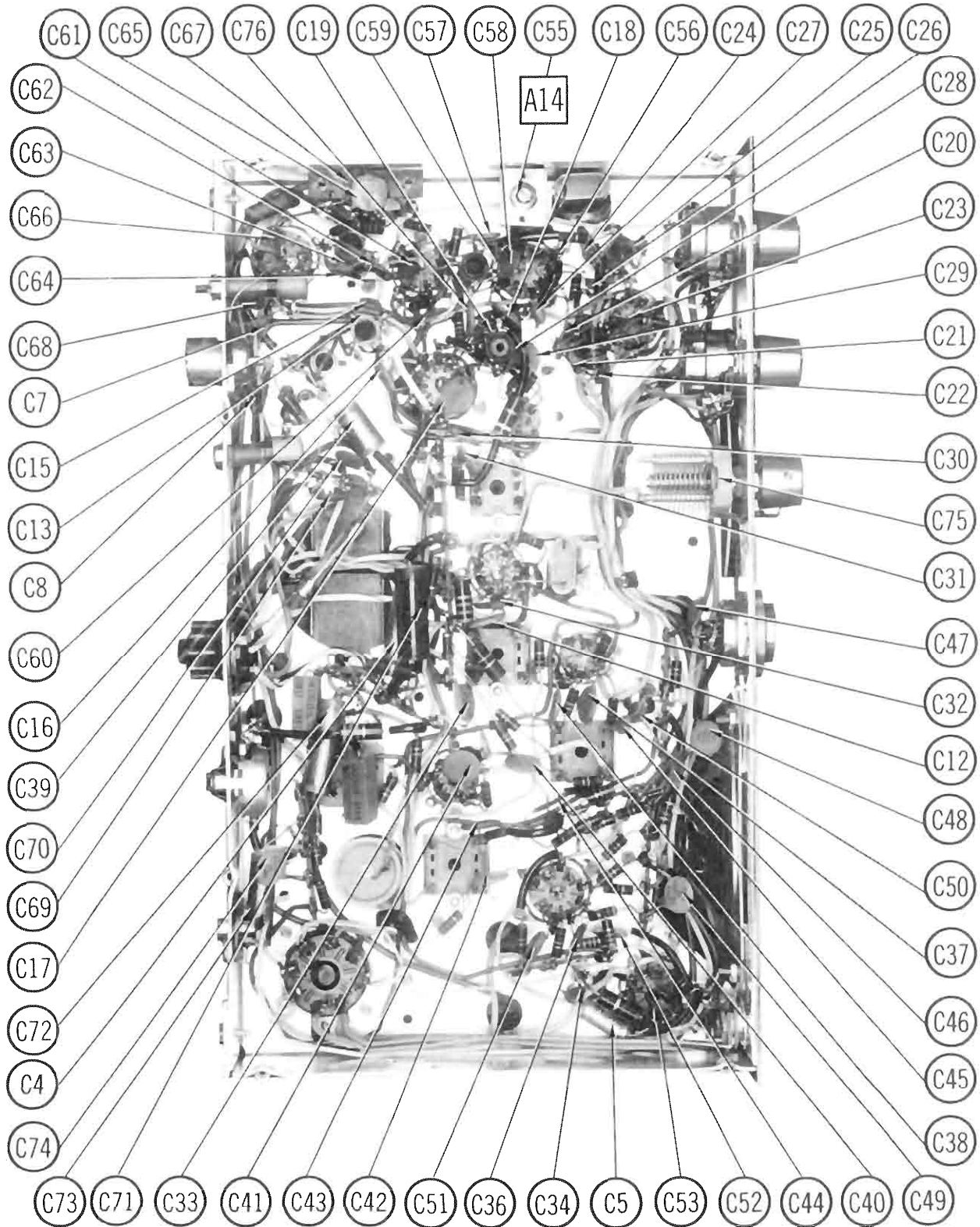
† Measured from output of X2.

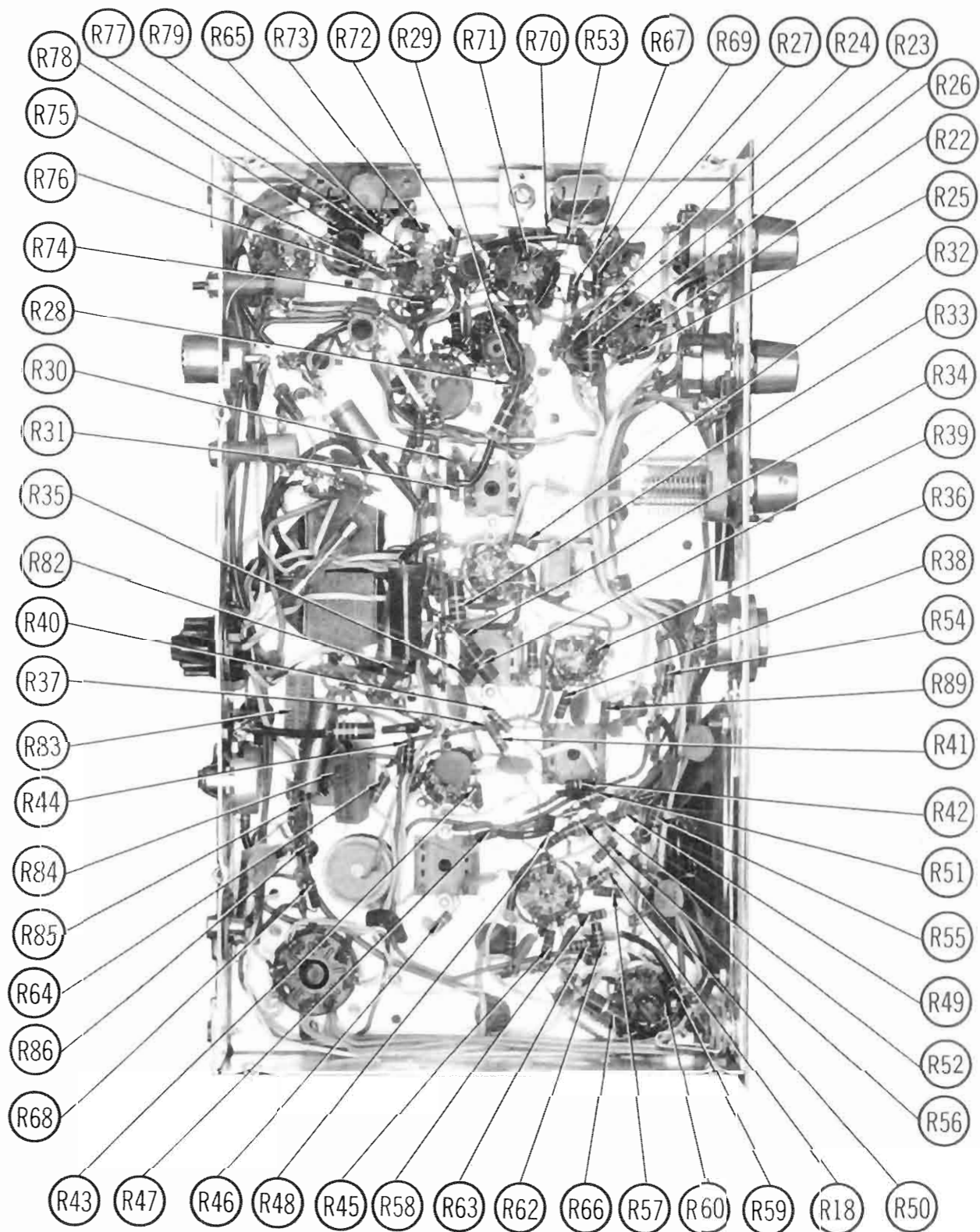
▲ Measured in Transmit position.

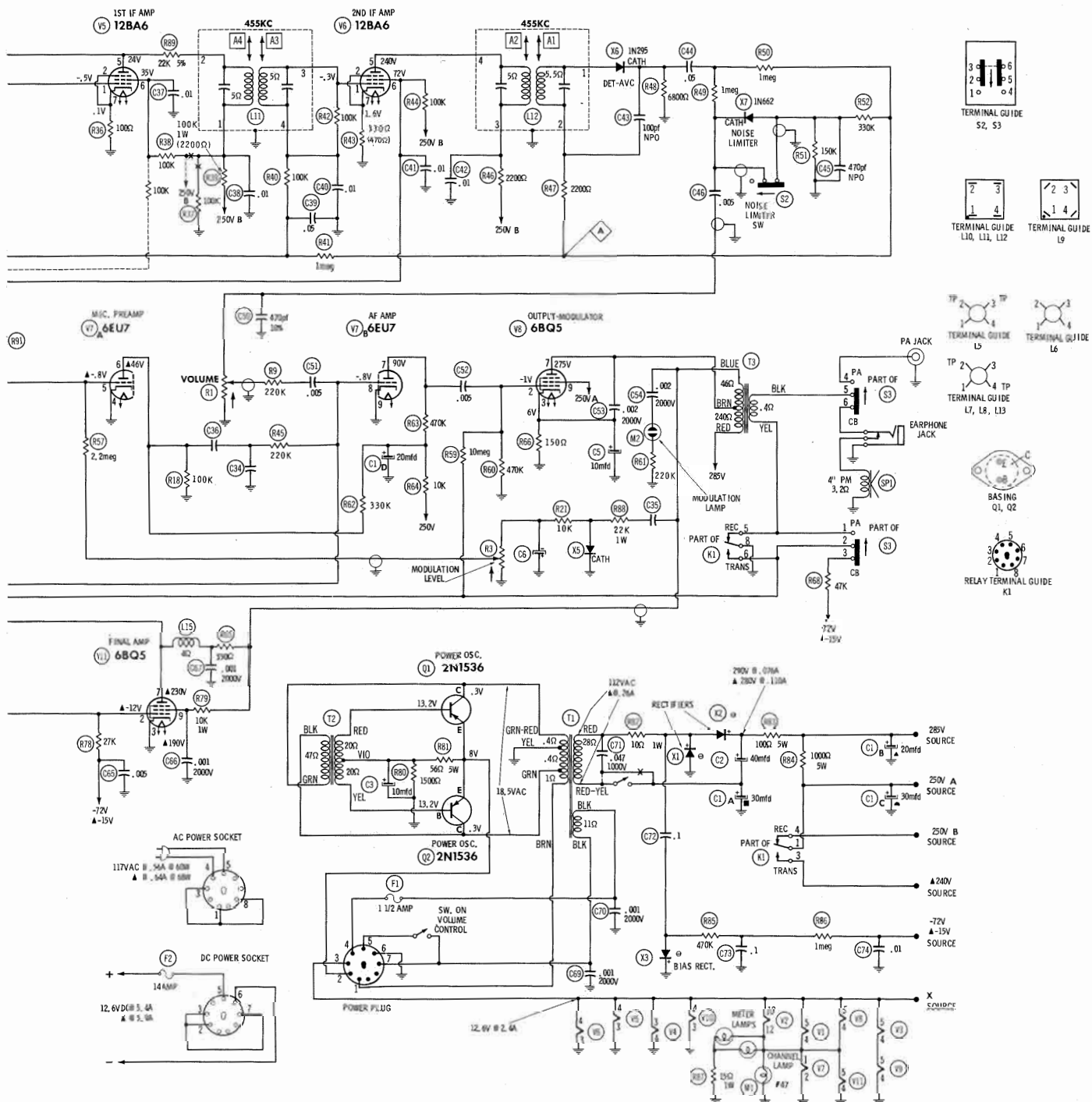
INF Infinite Resistance
TP Tie Point

This reading will vary depending upon the condition of electrolytic in the circuit.









COURIER MODEL 23 Plus

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	6BS8	V7	Mic Preamp-AF Amp	5EU7						
V2	Receive Mixer	6CW4	V8	Output-Modulator	5BQ5						
V3	Synthesizer Osc-Mixer	6GH8	V9	Transmit Mixer-Oscillator	5GH8						
V4	Receive Converter	12BE6	V10	Transmit Buffer	12BA6						
V5	1st IF Amp	12BA6	V11	Final Amp	6VQC						
V6	2nd IF Amp	12BA6									

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA				
			MFGR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.
Q1	2N1536	Power Oscillator			GE-3	TR-01	SK-3009
Q2	2N1536	Power Oscillator			GE-3	TR-01	SK-3009

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKS TARZIAN PART No.	
X1	8D6	GE-504A	8D6 or 9DD6A (1)	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5960-2 (1)	
X2	8D6	GE-504A	8D6 or 9DD6A (1)	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5960-2 (1)	
X3		GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117	SK-3030 or SK-3031	40C or F-4	
X4	1N295	1N34AS	1N34A	ECG 109			
X5		GE-504A	8D6 or 18DB8A	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5959-3	
X6	1N295	1N295	1N295	ECG 109			
X7	1N662	1N82A	1N82A	ECG 112			
X8		GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117	SK-3031 or SK-3017A	40C or F-4	
X9		GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117	SK-3031 or SK-3017A	40C or F-4	
X10	1N562	1N82A	1N82A	ECG 112			

(1) Single unit replacement for both rectifiers.

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.
C1A	30 450V	CE-3	AFH-4-15-30		DD0185	XC4-55	FP444.8	TVL-4769.4
B	20 450V							
C	30 450V							
D	20 350V							
C2	40 350V		PRS1670		BR40-350	QT1-16	TC67A	TVA-1611
C3	10 50V		CRE757A	EA50-10	NLW10-50	MT1-6	TTS0X10A	TE-1304
C4	100 25V		PTT86	EA30-100	BR100-50	QT1-23	MTA100F35	TL-1309
C5	10 35V		CRE757A	EA50-10	NLW10-25	MT1-5	TTS0X10A	TE-1204
C6	2 50V		PTT88	EA50-2	NLk2-20	QT1-1	MTA2D50	TL-1301

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.
C7	15 NPO 5%			DTZ-15	CZ601CG150J		□N0415	10TCC-Q15
C8	47 5%			DTZ-47			□N0447	10TCC-Q47
C9	80-480					466		
C10	10 NPO 10%		NPO-DI 10	DTZ-10	CZ601CG100K	CCD-100	CN0410	10TCC-Q10
C11	2.7-30							
C12	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C13	11 NPO 5%			DTZ-10				
C14	3.2 N075 1%							
C15	33 NPO							
C16	.01		NPO-DI 33	DTZ-33	C5601CG330K	CCD-330	CN0433	10TCC-Q33
C17	.005		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C18	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C19	11 NPO 5%		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C20	.005			DTZ-10				
C21	10 NPO		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C22	5 +.5		NPO-DI 10	DTZ-10	CZ601CG100K	CCD-100	CN0410	10TCC-Q10
C23	51		NPO-DI 4.7	DTZ-4R7	CZ601CH5R0D	CCD-4R7	CN0547	10TCC-V47
C24	.005		GPD X5F500K	DD-500	JBT601YP500K	CCD-500	GP450	10TS-D50
C25	18 N075 10%		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C26	5 +.5			DTZ-10				
C27	1 NPO +.25		NPO-DI 4.7	DTZ-4R7	CZ601CH5R0D	CCD-4R7	CN0547	10TCC-V47
C28	10 NPO		NPO-DI 1.0	TCZ-1			CN0510	10TCC-V10
C29	.01		NPO-DI 1.0	DTZ-10	CZ601CG100K	CCD-100	CN0410	10TCC-Q10
C30	.005		GPD X5R502K	DD-502	BYX601ZU103M	CCD-103	JF110	10TS-S10
C31	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C32	100 NPO 10%		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C33	.01		NPO-DI 100	DTZ-100	CV601CG101K	CCD-101	CN0310	10TCC-T10
C34	.001		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C35	.01 1.4KV		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C36	.005			DD-105	HT102ZV103P		UAC110	10SL-S10
C37	.01		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
			GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

CAPACITORS (cont)

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

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.
C38	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C39	.047	400V	DBE6S47	DD-503	DMF4547	4DP-3-473	PVC4147	4PS-S47
C40	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C41	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C42	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C43	100	NPO 10%	NPO-DI 100	DTZ-100	CV601CG101K	CCD-101	CNO310	10TCC-T10
C44	.05		GPD Z5V503P	DD-503		CCD-503	GP150	5HK-S50
C45	.470	10%	GPD X5F471K	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C46	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C47	100	NPO 10%	NPO-DI 100	DTZ-100	CV601CG101K	CCD-101	CNO310	10TCC-T10
C48	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C49	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C50	.470	10%	GPD X5F471K	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C51	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C52	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C53	.002	2KV	HVD-302200	DD30-202	HVX202ZU202P	3CCD-202	2HV222	30GA-D20
C54	.002	2KV	HVD-302200	DD30-202	HVX202ZU202P	3CCD-202	2HV222	30GA-D20
C55	2.7-30					403		
C56	27	NPO 10%	NPO-DI 25	TCZ-27		CCD-270	CNO427	10TCC-Q27
C57	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C58	33	NPO 10%	NPO-DI 33	DTZ-33	CS601CG330K	CCD-330	CNO433	10TCC-Q33
C59	11	NPO 5%		DTZ-10				
C60	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C61	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C62	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C63	27	NPO 10%	NPO-DI 25	DTZ-25		CCD-270	CNO427	10TCC-Q27
C64	13	NPO 5%						
C65	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C66	.001	2KV	HVD-301000	DD30-102	HVV202XP102M	3CCD-102	2HV210	30GA-D10
C67	.001	2KV	HVD-301000	DD30-102	HVV202XP102M	3CCD-102	2HV210	30GA-D10
C68	.002	2KV	HVD-302200	DD30-202	HVX202ZU202P	3CCD-202	2HV222	30GA-D20
C69	.001	2KV	HVD-301000	DD30-102	HVV202XP102M	3CCD-102	2HV210	30GA-D10
C70	.001	2KV	HVD-301000	DD30-102	HVV202XP102M	3CCD-102	2HV210	30GA-D10
C71	.047	1000V	BE10S47	DD-503	PKM10S47	16DP-5-473	PVC1615	10TM-S47
C72	.1	400V	DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C73	.1	400V	DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C74	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C75								
C76	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10

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

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	CT-8	F2-500K, SHS200, KR-4, BA006, CA005	A47-500K-Z, RS2, SWE-3 or (NP-500K-Z, UP-A-400, NWE-13)	QCB1(1), B13-133, SK3, 76-1 or (BU2, CF25, SS3, GC)	UA55A, SL2500, US41 or (RU55A, SL39, SL2500, US41) or (U48, US26)
R2	Squelch & Stand-by Switch	3meg	CT-10	F1-3meg, SR3200, KR-1, BA006, CA005	A47-3meg-S, RS-2, SWE-12 or (NP-3meg-S, UP-A-400, NWE-12)	QCB1(1), B11-140, SK3, 76-1 or (BU2, CF21, SS3, GC)*	UA36L, SL2500, US41, or (RU36L, SL39, SL2500, US41) or (US9, US26)
R3	Modulation Level	50K		F1-50K, SNK010	B47-50K-S or (NP-50K-S, NML-A-500)	B11-123, TM4 or (BU11, CF12, SS6)*	PTA53L or (RU53L, SL37, SN281) or (UA53L, SN281)
R4	"S" Meter Adjust	25K	CT-3	F1-25K, SNK010	A47-25K-S, FKS-1/2 or (NP-25K-S, UP-A-400)	B11-120, SK6 or (BU1, CF11, SS6)*	UA253L, SN750 or (RU253L, SL38, SN750) or (SU29)

* "SNAPTROL"

(1) Use QCB1 instead of Bushing in SK3 Kit.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFGR. PART No.			IRC PART No.	WORKMAN PART No.	MFGR. PART No.
R81	56 SW		5W-SQ-55		R84	1000 SW	PW5-1000	5W-SQ-1K	
R83	100 SW	PW5-100	5W-SQ-100						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Antenna Filter (5.6uh)	CH-8	19-2013	4609	T820
L2	37MC Trap	CO-5		20A227RB1	
L3	54MC Trap	CO-5		20A227RB1	
L4	Final Plate	CO-10			
L5	64MC Trap	CO-46		20A225RB1	
L6	RF Interstage	CO-14			
L7	Synthesizer Oscillator Plate	CO-9		20A156RB1	
L8	Synthesizer Mixer Plate	CO-9		20A156RB1	
L9	6MC IF	IF-5			
L10	Input IF				
L11	Interstage IF	IF-5			
L12	Output IF	IF-5			
L13	Transmit Mixer Plate	CO-9		20A106RB1	
L14	Buffer Amp Plate	CO-4			
L15	RF Choke	CH-10		74F335AI	T972

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Power)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI. 1	SEC. 1	SEC. 2	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117 VAC # .64ma	112VAC #260ma	12.6VAC #2.4A	TP-12					* Transmit Position
	PRI. 2 18.5VAC CT #3.7A	SEC. 1 112VAC #260ma							DC Operation

TRANSFORMER (POWER OSC)

ITEM No.	TURNS RATIO			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	1:1	1		TP-6					

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	7500 Tap # 5500	4	TA-1					

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA			NOTES
				PART No.	JENSEN PART No.	QUAM PART No.	
SP1	4"	PM	4 ohms			4A05	

FUSE DEVICES

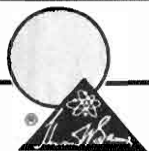
ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1 F2	GJV 1 1/2A 250V SFE14A			GJV 1 1/2 SFE14	HHI-B	31801.5 307014	155014	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	RL-15	CHICAGO MINIATURE Replacement CM-47 CHICAGO MINIATURE Replacement A1A(NE-2) 37.60MC (Channel 1 thru 4) 37.65MC (Channel 5 thru 8) 37.70MC (Channel 9 thru 12) 37.75MC (Channel 13 thru 16) 37.80MC (Channel 17 thru 20) 37.85MC (Channel 21,22,23) 4.635MC (Channels 1,5,9,13,17,21) 4.625MC (Channels 2,6,10,14,18,22) 4.615MC (Channels 3,7,11,15,19) 4.595MC (Channels 4,8,12,16,20,23) 5.545MC 6MC Ceramic
M1	Channel Lamp	#47	
M2	Modulation Lamp	BU-2	
M3	Transmit & Receive Crystal		
M4	Transmit & Receive Crystal		
M5	Receive Converter Crystal		
M6	Transmit Oscillator Crystal		
M7	S-RF Meter		
M8	Microphone Assembly		
S1	Switch, Selector		
S2	Switch, Noise Limiter		
S3	Switch, CB-PA		

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. 8861 (3/8 In.)



PHOTOFACT[®] with

CIRCUITRACE[®]

TRADE NAME : Eico Model 7923 (Nova 23)

SUPPLIER : For Current Address, See Annual Index

POWER SUPPLY : 12 Volt Storage Battery

RATING : .250 Amp @ 12.6 VDC (Receive)
.900 Amp @ 12.6 VDC (Transmit)

TUNING RANGE : All 23 CB Channels 1 thru 23



ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

A1 thru A7, A10, A11.
A8, A9, A12 thru A17.

GENERAL CEMENT: 9304
GENERAL CEMENT: 9440

WALSCO: 2513
WALSCO: 2501

RECEIVER ALIGNMENT

Connect an AC VTVM across Speaker Voice Coil. Turn Volume Control fully clockwise, turn Squelch Control fully counterclockwise.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to Base of Q2 (Rec. Mixer), low side to chassis. Tune to 5.255MC (Mod.)	Any	A1 thru A7	Adjust for maximum.
High side thru .01mfd to Antenna Receptacle. Low side to chassis. Set Frequency to 27.085MC (Channel 11).	11	A8, A9	Connect RF probe of a VTVM from point Δ to ground. Adjust for maximum.
High side thru .01mfd to Antenna Receptacle. Low side to chassis. Set frequency to 27.085MC (Channel 11)	11	A10, A11	Adjust for maximum. Check channels for uniform gain and make compromise adjustments if necessary.

TRANSMITTER ALIGNMENT

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.

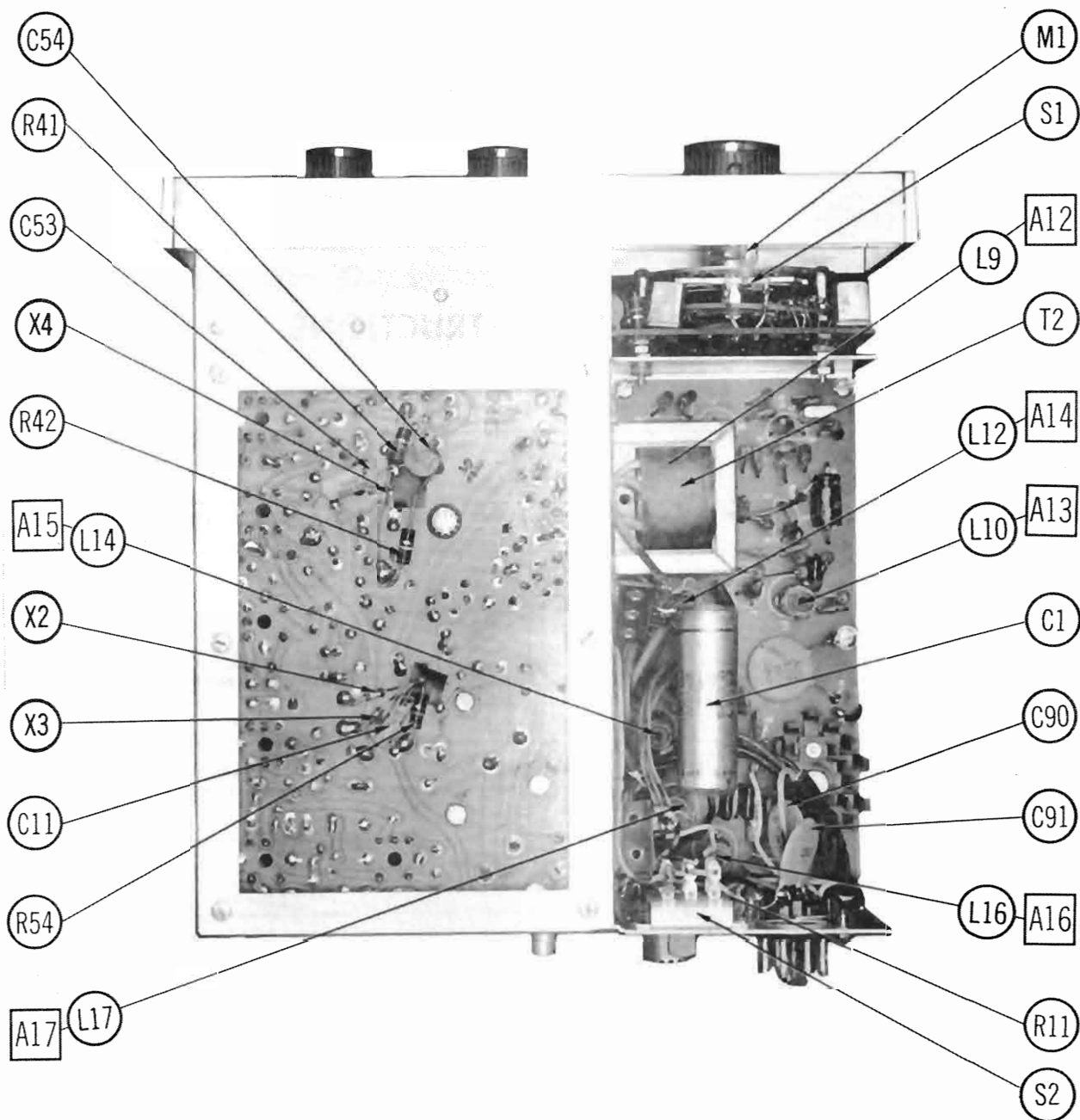
Connect either 50 Ω dummy load or the normally used antenna system.

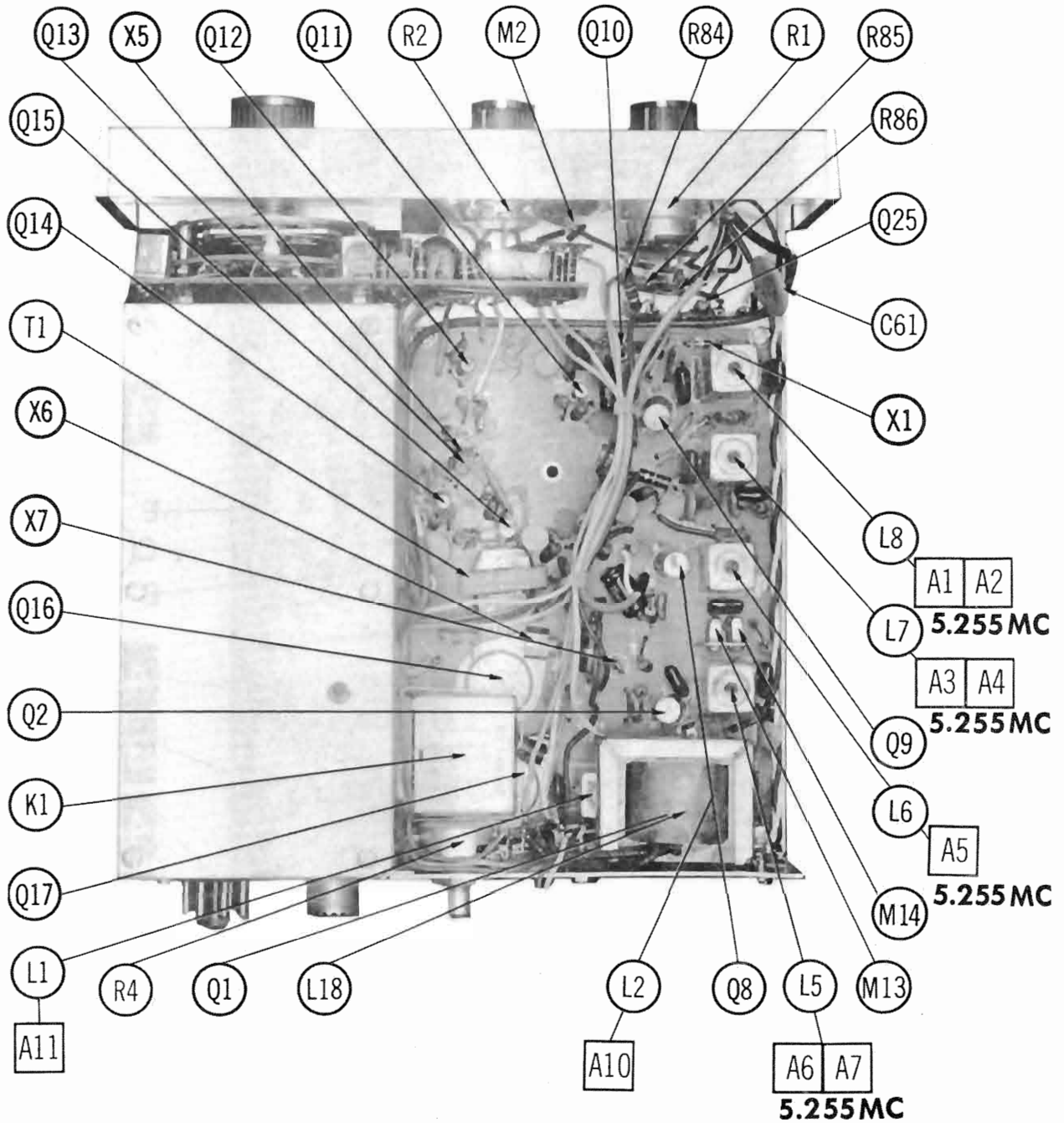
INDICATOR	ADJUST	REMARKS
RF Watt Meter or RF Field Strength Meter.	A12 thru A17	Adjust for maximum. Check all channels for equal output and make compromise adjustments if necessary.
Heterodyne or Digital Frequency Meter		Check all Channels for proper frequency.

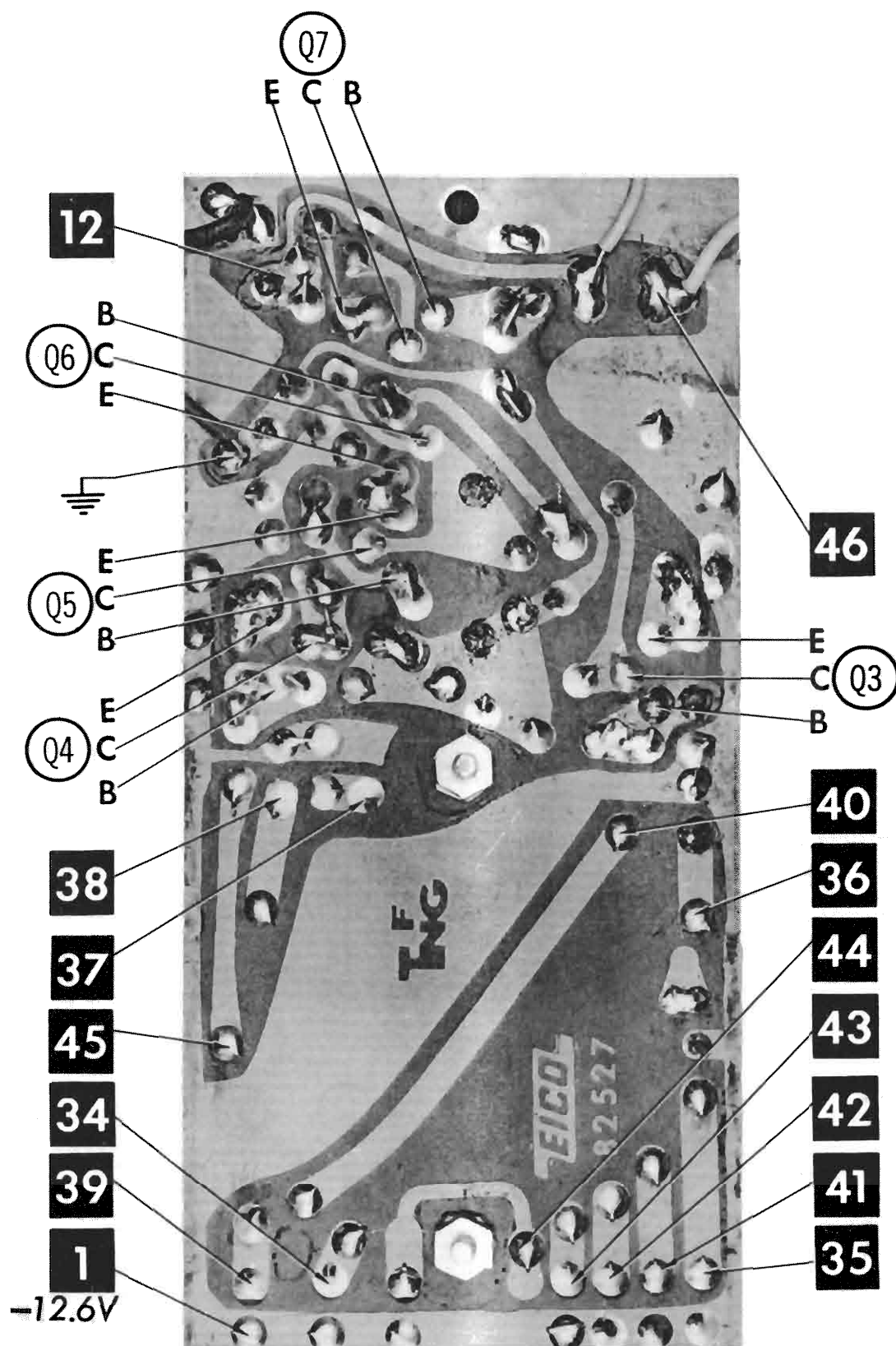
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

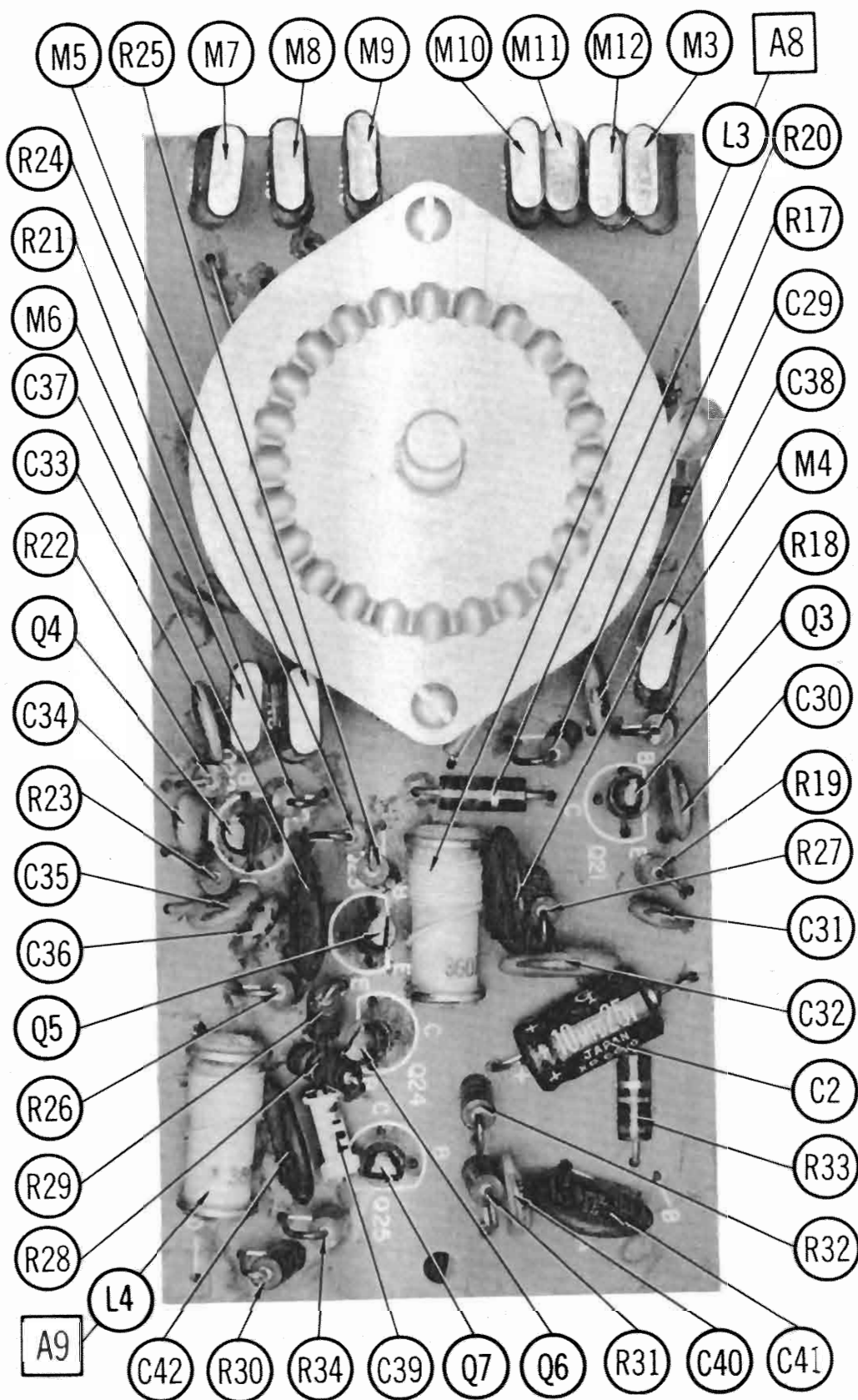
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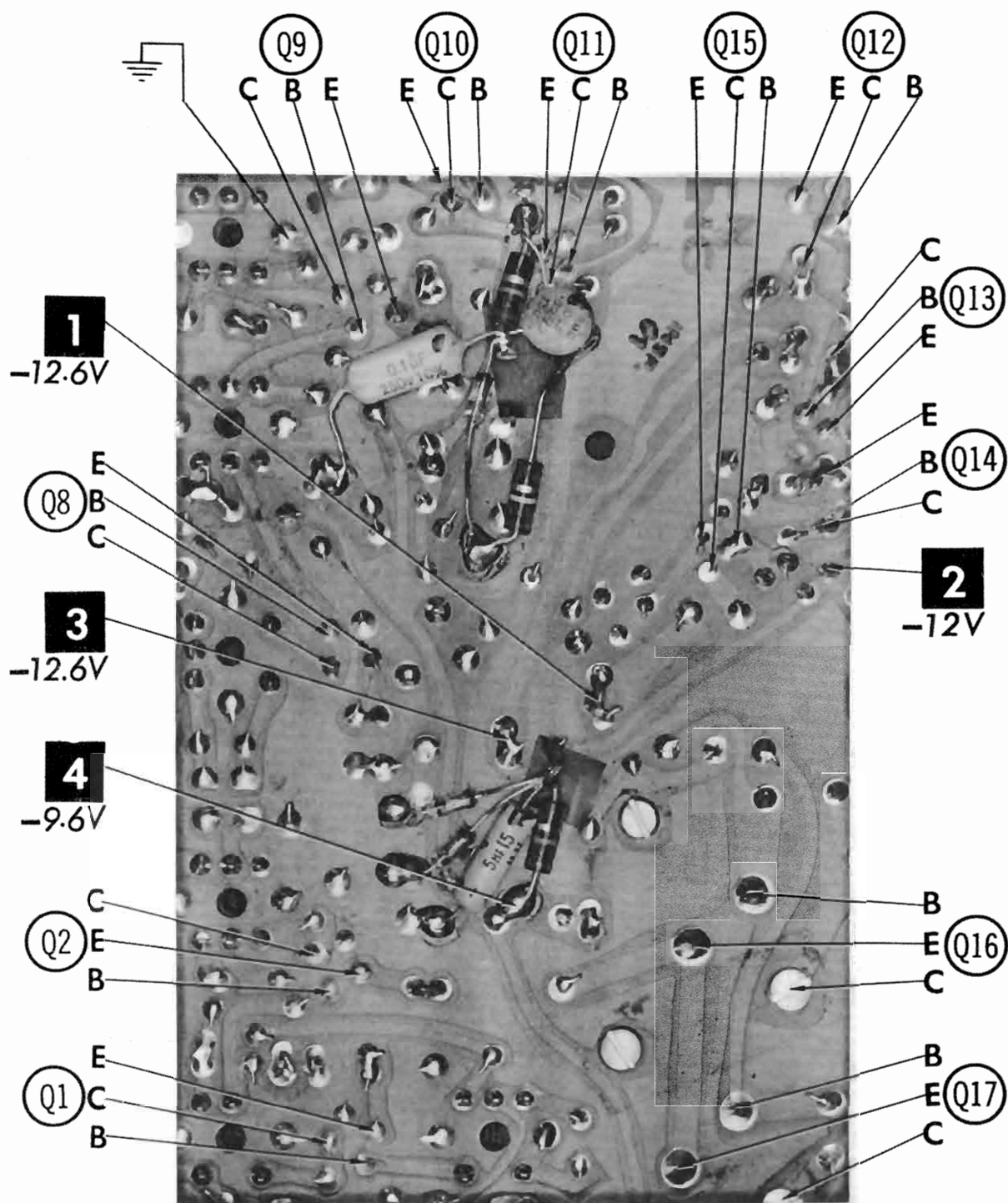
EICO MODEL 7923 (NOVA 23)

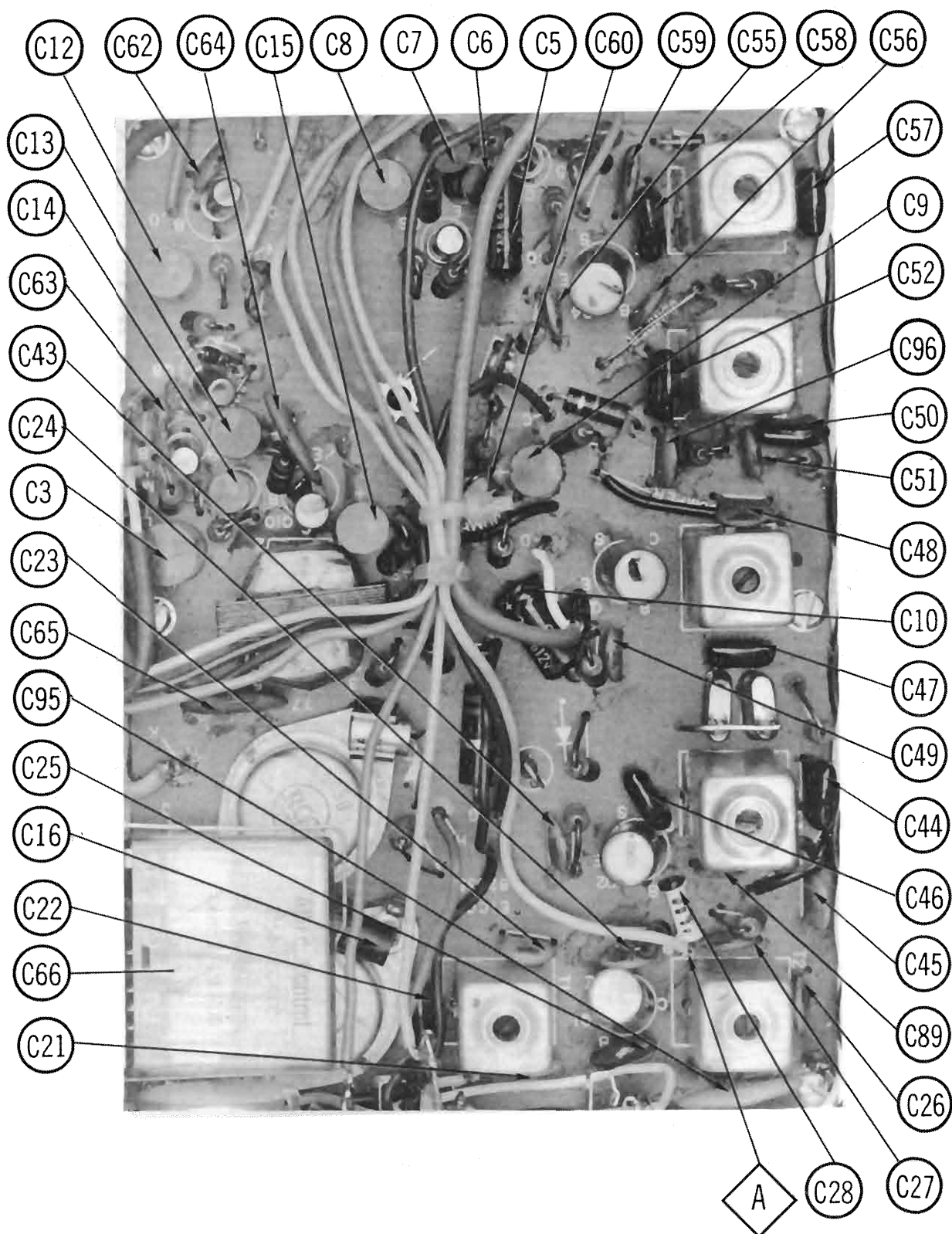


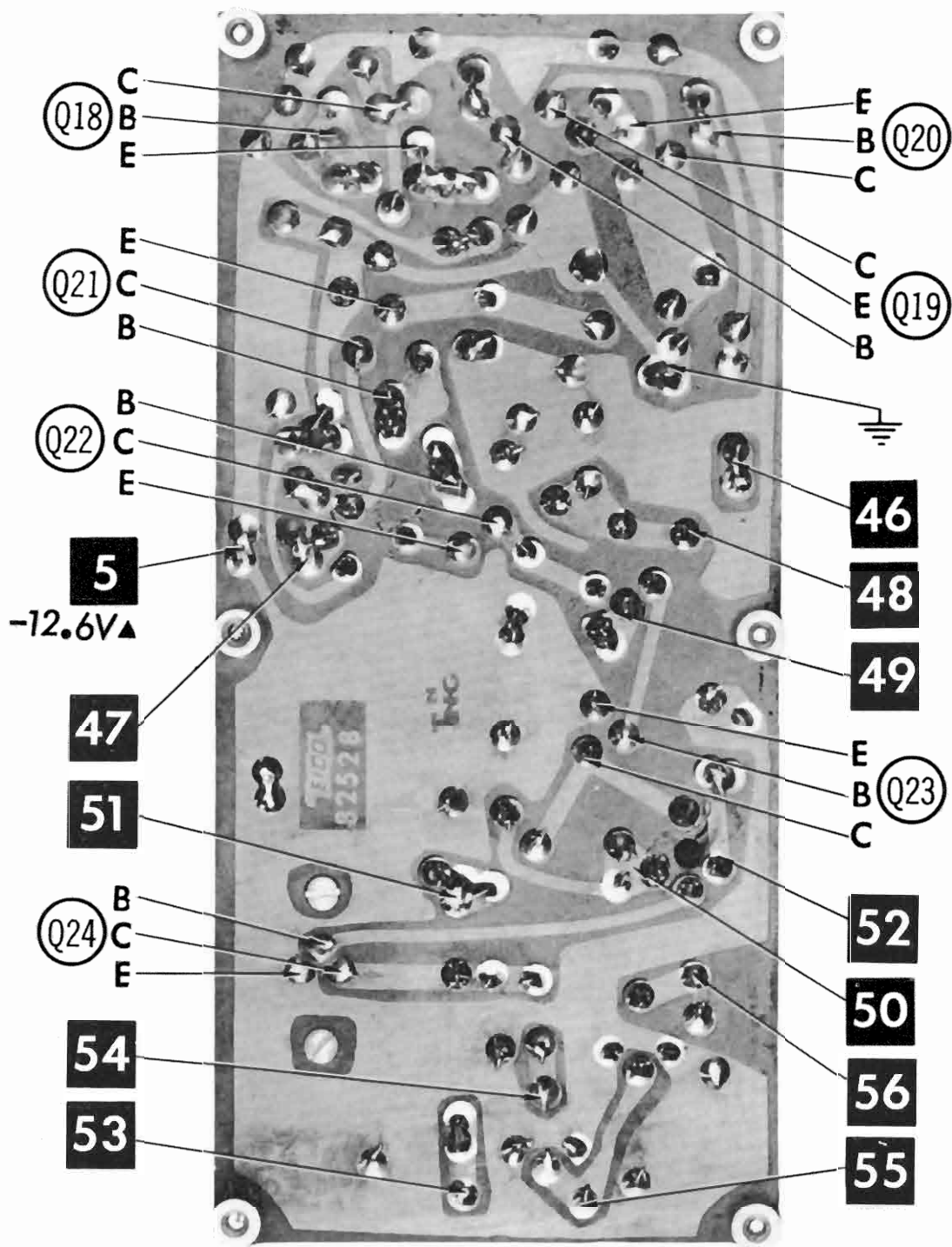




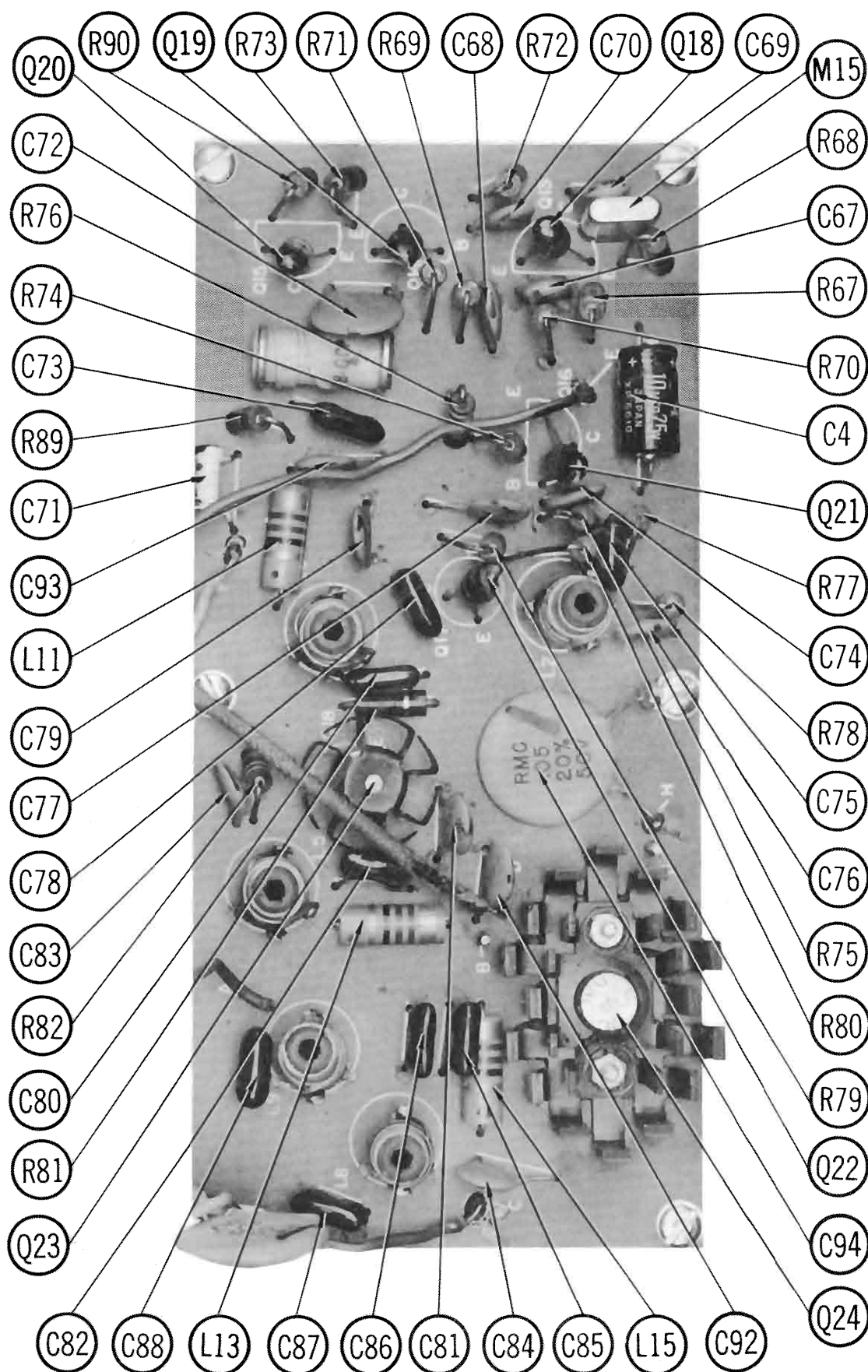


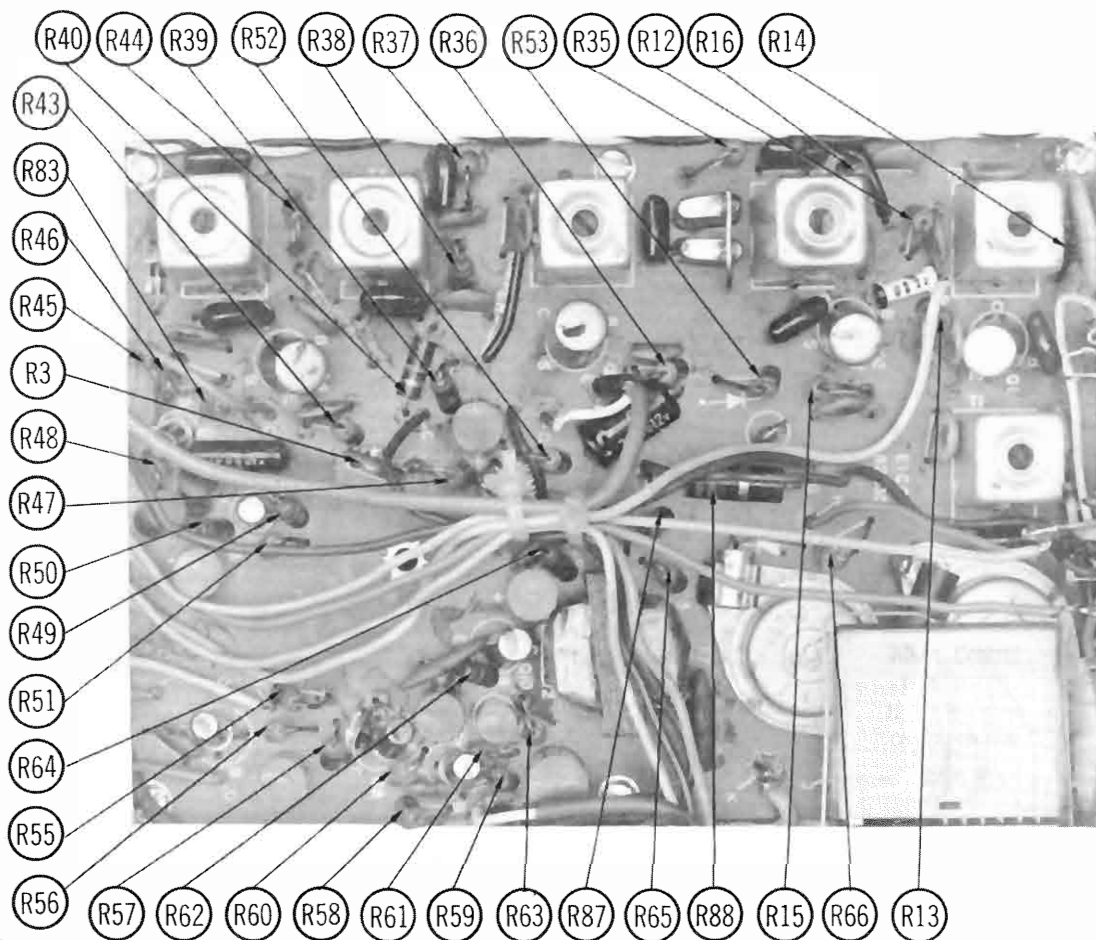
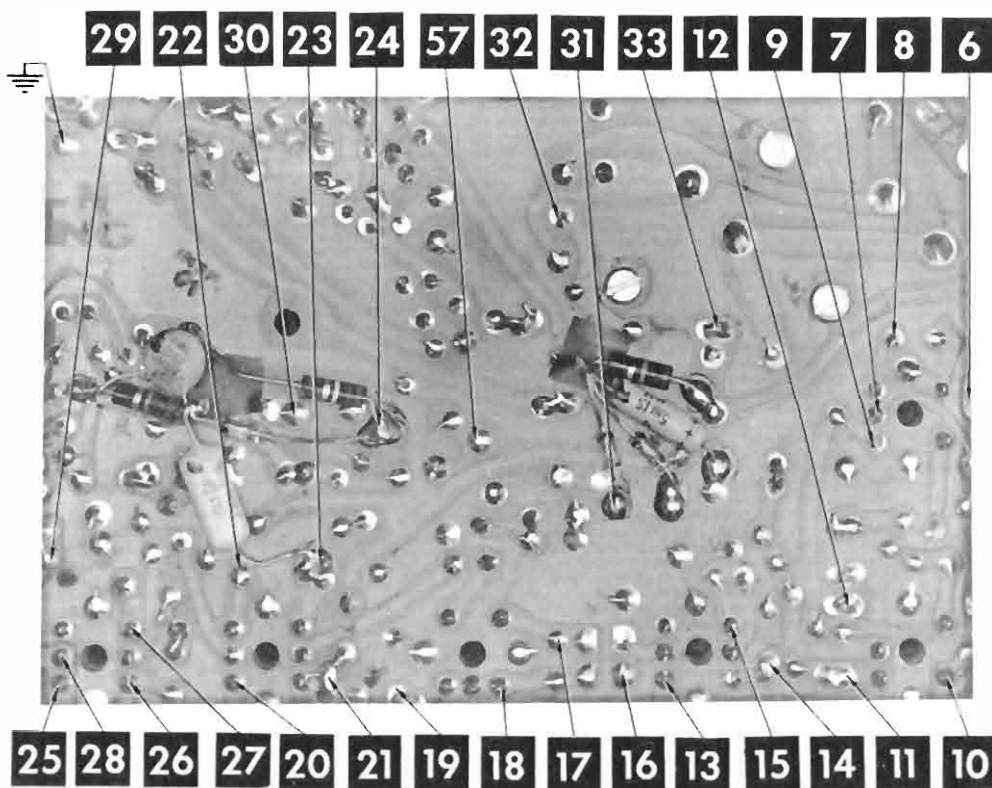






▲ TRANSMIT





PARTS LIST AND DESCRIPTION

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

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.
Q1	2N1177	RF Amp	94033	DS-41	GE-9A	TR-17	SK-3006	ECG 126
Q2	2N1179	Receive Mixer	94036	DS-41	GE-9A	TR-17	SK-3006	ECG 126
Q3	2N2926	Local Oscillator	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q4	2N2926	Synthesizer Osc.	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q5	2N2926	Synthesizer Mixer	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q6	2N2926	Synthesizer Mixer	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q7	2N2926	Synthesizer Buffer	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q8	2N1177	1st IF Amp	94033	DS-41	GE-9A	TR-17	SK-3006	ECG 126
Q9	2N1177	2nd IF Amp	94033	DS-41	GE-9A	TR-17	SK-3006	ECG 126
Q10	SFT-337	AGC	94038	DS-26	GE-2	TR-14	SK-3004	ECG 102
Q11	SFT-337	AF Amp	94038	DS-26	GE-2	TR-14	SK-3004	ECG 102
Q12	2N404	Squelch Amp	94037	DS-26	GE-2	TR-14	SK-3004	ECG 102
Q13	SFT-337	Squelch Gate	94038	DS-26	GE-2	TR-14	SK-3004	ECG 102
Q14	SFT-337	AF Amp	94038	DS-26	GE-2	TR-14	SK-3004	ECG 102
Q15	2N591	Driver	94039	DS-26	GE-2	TR-14	SK-3004	ECG 102
Q16	40050	Output-Modulator	94040	DS-520	GE-3	TR-01	SK-3009	ECG 104
Q17	40050	Output-Modulator	94040	DS-520	GE-3	TR-01	SK-3009	ECG 104
Q18	2N2926	Transmit Oscillator	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q19	2N2926	Transmit Mixer	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q20	2N2926	Transmit Mixer	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q21	2N2926	Transmit Buffer	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q22	2N2926	Transmit Amp	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108
Q23	40081	Transmit Driver	94042					
Q24	40082	Final Amp	94043					
Q25	2N2926	Meter Amp	94044	DS-74	GE-20	TR-21	SK-3018	ECG 108

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	1N295	1N295	1N295	ECG 109			
X2	1N295	1N295	1N295	ECG 109			
X3	1N295	1N295	1N295	ECG 109			
X4	1N295	1N295	1N295	ECG 109			
X5	1N295	1N295	1N295	ECG 109			
X6	1N2326 (95008)						
X7	1N4740A		1ZM10T10			VR10	10V Zener

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		EICO PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	750 15V	23047	PRS1230	EA30-1000	BR1000-15	QT1-32	TC1501A	TL-1166.5
C2	10 25V	23001	PTT79	EA30-10	NLW10-25	MT1-5	MTA10B35	TE-1204
C3	50 15V	23507	BCD15050	EP15-50	NLW50-15	MT1-16	MTV50CB15	TE-1160
C4	10 25V	23001	PTT79	EA30-10	NLW10-25	MT1-5	MTA10B35	TE-1204
C5	1 6V	(1)	PTT18		NLW1-6	MT1-1	MTA10B35	TE-1050
C6	5 15V	23504	BCD15005	EP30-5	NLW5-50	MT1-3	MTV5CB50	TE-1152
C7	5 15V	23504	BCD15005	EP30-5	NLW5-50	MT1-3	MTV5CB50	TE-1152
C8	25 15V	23505	BCD15025	EP15-25	NLW25-15	MT1-10	MTV25CB35	TE-1157.1
C9	25 15V	23505	BCD15025	EP15-25	NLW25-15	MT1-10	MTV25CB35	TE-1157.1
C10	25 12V	(2)	PTT56	EA15-25	NLW25-15	MT1-10	MTA25D20	TE-1131
C11	5 15V		PTT64	EA15-5	NLW5-15	MT1-3	MTA5D50	TE-1152
C12	50 3V	23506	BCD3050	EP6-50	NLW50-3	MT1-15	MTV50CB15	TE-1058
C13	25 15V	23505	BCD15025	EP15-25	NLW25-15	MT1-10	MTV25CB35	TE-1157.1
C14	5 15V	23504	BCD15005	EP30-5	NLW5-50	MT1-3	MTV5CB50	TE-1152
C15	50 3V	23506	BCD3050	EP6-50	NLW50-3	MT1-15	MTV50CB15	TE-1058
C16	1 75VNP	23092	PRS7525		NLW2-150 (3)			

(1) Some versions may use 1mfd @ 15V Part Number 23039.

(2) Some versions may use 25mfd @ 3V Part Number 23061.

(3) Back to Back Connection.

(CONTINUED ON PAGE 52)

EICO MODEL 7923 (Nov 23)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.
C21	.005 50V	#22509	TTP-005	CK-502	HOY1012V502P	CCD-502	TA250	TG-D50
C22	100 50V		ADM-15-101	CPR-100J	CD15F101J500	DM-15-101J	SX310	MS-31
C23	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C24	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C25	100 50V		ADM-15-101	CPR-100J	CD15F101J500	DM-15-101J	SX310	MS-31
C26	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C27	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C28	10 50V		TTP-01	TCZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10
C29	.005 50V		TTP-005	CK-502	HOY1012V502P	CCD-502	TA250	TG-D50
C30	100 N1500 10%			TCL-100				10TCW-T10
C31	220 10%		GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C32	47 NPO 5%		NPO-D1 47	DTZ-47	CX601CG470K	CCTO-470	CNO447	10TCC-Q47
C33	.005 10%		TTP-005	CK-502	HOY1012V502P		TA250	TG-D50
C34	470 10%		GPD X5F471K	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C35	.001 10%		GPD X5F102K	DD-102	JBZ601YP102K	CCD-102	GP210	10TS-D10
C36	220 10%		GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C37	47 NPO 5%		NPO-D1 47	DTZ-47	CX601CG470K	CCTO-470	CNO447	10TCC-Q47
C38	47 NPO 5%		NPO-D1 47	DTZ-47	CX601CG470K	CCTO-470	CNO447	10TCC-Q47
C39	10 50V		NPO-D1 47	TCZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10
C40	.005 10%		TTP-005	CK-502	HOY1012V502P	CCD-502	TA250	TG-D50
C41	47 NPO 5%		NPO-D1 47	DTZ-47	CZ601CG470K	CCTO-470	CNO447	10TCC-Q47
C42	47 NPO 5%		NPO-D1 47	DTZ-47	CZ601CG470K	CCTO-470	CNO447	10TCC-Q47
C43	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C44	220 5%		ADM-15-221	CPR-220J	CD15F221J500	DM-15-221J	SX322	MS-322
C45	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C46	300 5%		ADM-15-301	CPR-300J	CD15F301J500	DM-15-301J	SX330	MS-33
C47	90 5%		ADM-15-910	CPR-91J	CD15F910J500	DM-15-910J	SX491	MS-491
C48	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C49	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C50	220 5%		ADM-15-221	CPR-220J	CD15F221J500	DM-15-221J	SX220	MS-322
C51	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C52	300 5%		ADM-15-301	CPR-300J	CD15F301J500	DM-15-301J	SX330	MS-33
C53	.1 250V 10%		DBE2P1	DMF2P1	HOV1012V503Z	2DP-3-104	PVC201	2PS-P10
C54	.005 10%		TTP-005	CK-502	HOY1012V502P	CCD-502	TA250	TG-D50
C55	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C56	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C57	220 5%		ADM-15-221	CPR-220J	CD15F221J500	DM-15-221J	SX322	MS-322
C58	300 5%		ADM-15-301	CPR-300J	CD15F301J500	DM-15-301J	SX330	MS-33
C59	.005 10%		TTP-005	CK-502	HOY1012V502P	CCD-502	TA250	TG-D50
C60	.1 250V 10%		DBE2P1	DMF2P1	HOV1012V503Z	2DP-3-104	PVC201	2PS-P10
C61	.05 50V		TTP-05	CK-503	HOV1012V503Z	CCD-503	TA150	TGL-S50
C62	.01 50V		DBE2P1	DMF2P1	HOV1012V503Z	2DP-3-104	PVC201	2PS-P10
C63	.01 50V		DBE2P1	DMF2P1	HOV1012V503Z	2DP-3-104	PVC201	2PS-P10
C64	.02 10%		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C65	.02 10%		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C66	.02 400V 10%		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C67	470 10%		GPD X5F471K	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C68	.001 10%		GPD X5F102K	DD-102	JBZ601YP102K	CCD-102	GP210	10TS-D10
C69	220 10%		GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C70	470 10%		GPD X5F471K	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C71	10 50V			TCZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10
C72	47 NPO 5%		NPO-D1 47	DTZ-47	CX601CG470K	CCTO-470	CNO447	10TCC-Q47
C73	22 5%		ADM-15-220	CPR-22J	CD15E220J500	DM-15-220J	SX422	MS-422
C74	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C75	62 5%		ADM-15-620	CPR-62J	CD15E620J500	DM-15-620J	SX462	MS-462
C76	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C77	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C78	100 5%		ADM-15-101	CPR-100J	CD15F101J500	DM-15-101J	SX310	MS-31
C79	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C80	100 5%		ADM-15-101	CPR-100J	CD15F101J500	DM-15-101J	SX310	MS-31
C81	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C82	62 5%		ADM-15-620	CPR-62J	CD15E620J500	DM-15-620J	SX462	MS-462
C83	.001 10%		GPD X5F102K	DD-102	JBZ601YP102K	CCD-102	GP210	10TS-D10
C84	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C85	27 300V 5%		ADM-15-270	CPR-27J	CD15E270J500	DM-15-270J	SX427	MS-427
C86	62 5%		ADM-15-620	CPR-62J	CD15E620J500	DM-15-620J	SX462	MS-462
C87	220 5%		ADM-15-221	CPR-220J	CD15F221J500	DM-15-221J	SX322	MS-322
C88	220 5%		ADM-15-221	CPR-220J	CD15F221J500	DM-15-221J	SX322	MS-322
C89	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C90	.05 50V		TTP-05	CK-503	HOV1012V503Z	CCD-503	TA150	TGL-S50
C91	.05 50V		TTP-05	CK-503	HOV1012V503Z	CCD-503	TA150	TGL-S50
C92	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C93	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10
C94	.05 50V		TTP-05	CK-503	HOV1012V503Z	CCD-503	TA150	TGL-S50
C95	.05 50V		TTP-05	CK-503	HOV1012V503Z	CCD-503	TA150	TGL-S50
C96	.01 50V		TTP-01	CK-103	HOY1012V103P	CCD-103	TA110	TG-S10

Eico Part Number.

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.
R1	Volume & Switch	10K	18175-1 (18175)	F2-10K,SRS014, KR-4	A47-10K-Z,RS-2, SWE-13 or (NP-10K-Z, UP-A-400,NWE-13)	B13-116,SK3, 76-1 or (BU2, CF61,SS3,GC)*	UA14A,SK750, US41 or (RU14A, SL39,SK750 US41) or (U18, US-26)
R2	Squelch	1000	18174-1 (18174)	F1-1000,SRS014	A47-1000-S,RS-2 or (NP-1000-S, UP-A-400)	B11-108,SK3 or (BU2,CF6,SS3, DC1)*	UA13L,SK750 or (RU13L,SL39, SK750) or (U4)
R3	AGC Adjust	25K	16502	F1-1000,SRS010	A47-1000-S,RS-2 or (NP-1000-S, UP-A-400)	B11-108,SK3 or (BU1,CF6,SS3, DC1)*	UA13L,SK750 or (RU13L,SL39, SK750) or (U4)
R4	"S" Meter Adjust	1000	16001-2 (16001)				

* "SNAPTROL"

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFGR. PART No.			IRC PART No.	WORKMAN PART No.	MFGR. PART No.
R66	1.01 1%			13001					

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	RF Input	34654			
L2	RF Amp	34655			
L3	Synthesizer Mixer	36077			
L4	Synthesizer Buffer	36077			
L5	Input IF	34657			
L6	Interstage IF	34670			
L7	Interstage IF	34657			
L8	Output IF	34657			
L9	Transmit Mixer	36078			
L10	RF Interstage	36064			
L11	RFC (12uh)	35081		4622	
L12	RF Interstage	36076			
L13	RFC (12uh)	35081		4622	
L14	Transmit Driver	36076			
L15	RFC (12uh)	35081		4622	
L16	Pi Network	36066			
L17	Pi Network	36067			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	EICO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L18	.600A	.8	22mh	34007					

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	EICO PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	2.15	1		32045					

EICO MODEL 7923 (Nova 23)

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. 1	MFR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
		SEC. 2						
T2	8	4	32046					
		SEC. 2						
		1.4 DC Resistance						

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA			NOTES
				EICO PART No.	JENSEN PART No.	QUAM PART No.	
SP1	3"	PM	4 ohms	55021			

FUSE DEVICES

ITEM No.	DESCRIPTION		REPLACEMENT DATA					
			PART No.		BUSS PART No.		LITTELFUSE PART No.	
			DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	2 Amp	125V		97808	MDL2	HLJ	313002.	155020
	(1.5 Amp)		(91022)					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	39039	Transmit - Receive
M1	Lamp, Channel	92018	CHICAGO MINIATURE Replacement CM-2182
M2	Lamp, Transmit	92018	CHICAGO MINIATURE Replacement CM-2182
M3	Crystal	49140	15.185MC
M4	Crystal	49141	15.235MC
M5	Crystal	49142	15.285MC
M6	Crystal	49143	15.335MC
M7	Crystal	49144	15.385MC
M8	Crystal	49145	15.435MC
M9	Crystal	49146	6.525MC
M10	Crystal	49147	6.535MC
M11	Crystal	49148	6.545MC
M12	Crystal	49149	6.565MC
M13	Crystal	49152	5.2565MC
M14	Crystal	49151	5.2525MC
M15	Crystal	49150	5.255MC
M16	Meter	75007	"S" Meter
M17	Microphone Assembly	57505	Ceramic
S1	Switch, Selector	60190	24 Position (Rotary)
S2	Switch, PA-CB	62031	3PDT (Slide)
	AC Adapter		Model 791 (117VAC)

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

ITEM	PART No.	ITEM	PART No.
Cabinet	88148	Panel, Front	8018C
Knob, Control	53099	Handle	87013
Knob, Selector	53100	Dial	89785

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.)