



PHOTOFACT®

For Supplier Address See PHOTOFACT Index

NOTE

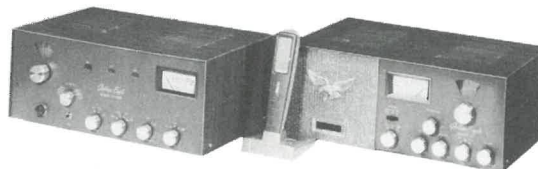
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

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

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

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



MODEL Golden Eagle Mark III

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: GC ELECTRONICS:
ALL tunable coils and transformers9295

BROWNING MODEL GOLDEN EAGLE MARK III

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 120-volt AC input to power supply.
Adjust volume control to obtain suitable reading.

SSB

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to Pin 7 of V4B, low side to ground.	455kHz, no modulation, output 30uV	Any	C69	Mode Switch to AM. Connect a VTVM from T5 to ground at junction of R38,R39,R46 and C40. Tune generator for peak. Adjust output for a -3V. Detune generator to a higher frequency. Increase output 30dB. Tune for a -3V output. Set mode switch to LSB. Adjust for zero beat.
High side thru .01uF to Pin 7 of V4B, low side to ground.	455kHz, no modulation, output 30uV	Any	C70	Same as above, but detune generator to a lower frequency. Set mode switch to USB. Adjust for zero beat.

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

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RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 120-volt AC input to power supply.
Adjust volume control to obtain suitable reading.

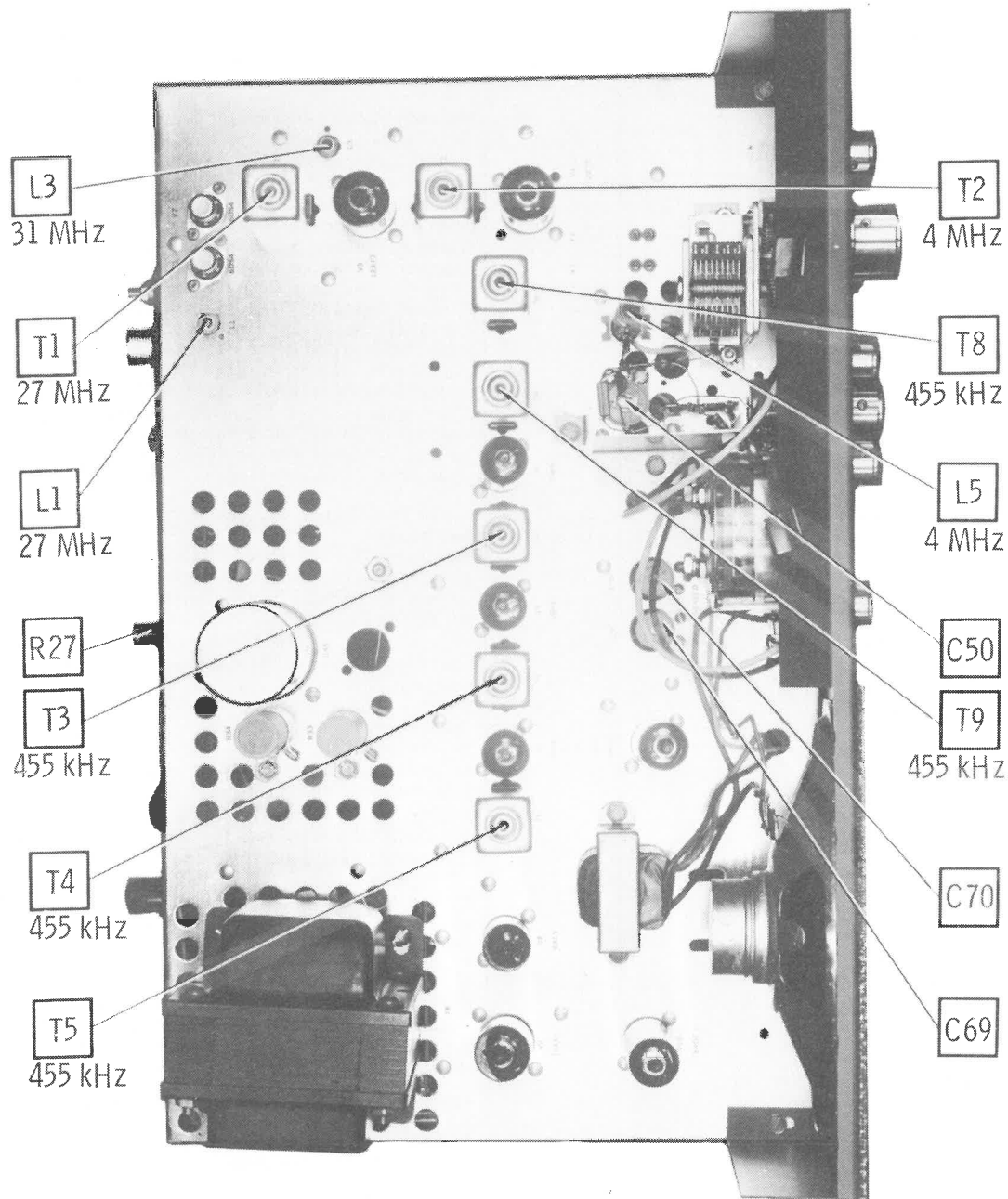
AM

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to Pin 7 of V4B, low side to ground.	455kHz, 1000Hz @ 30% modulation, output 30uV	Any	T3, T4, T5,T8,T9	Adjust both top and bottom slugs. The peak nearest top and bottom are the correct peaks. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.105MHz, 1000Hz @ 30% modulation, output .5uV	12	T1, T2, L1	Adjust both top and bottom slugs. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.255MHz, 1000Hz @ 30% modulation, output .5uV	23	T2(Bottom)	Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	26.965MHz, 1000Hz @ 30% modulation, output .5uV	1	T2 (Top)	Adjust for maximum.
DIAL CAL. High side thru .01uF to antenna jack, low side to ground.	27.035MHz, 1000Hz @ 30% modulation, output 5uV.	7	C50	Set Dial exactly to Ch. 7. Set Bandspread to Center. Adjust for maximum.
High side thru a .01uF to antenna jack, low side to ground.	27.125MHz 1000Hz @ 30% modulation, output .5uV	14	L5	Set Dial exactly to Ch. 14. Set Bandspread to Center. Adjust for maximum.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 120-volt AC input to power supply.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
"S" Meter		13	R27	Disconnect antenna and set "S" Meter to zero.



REC. CHASSIS

ALIGNMENT INSTRUCTIONS

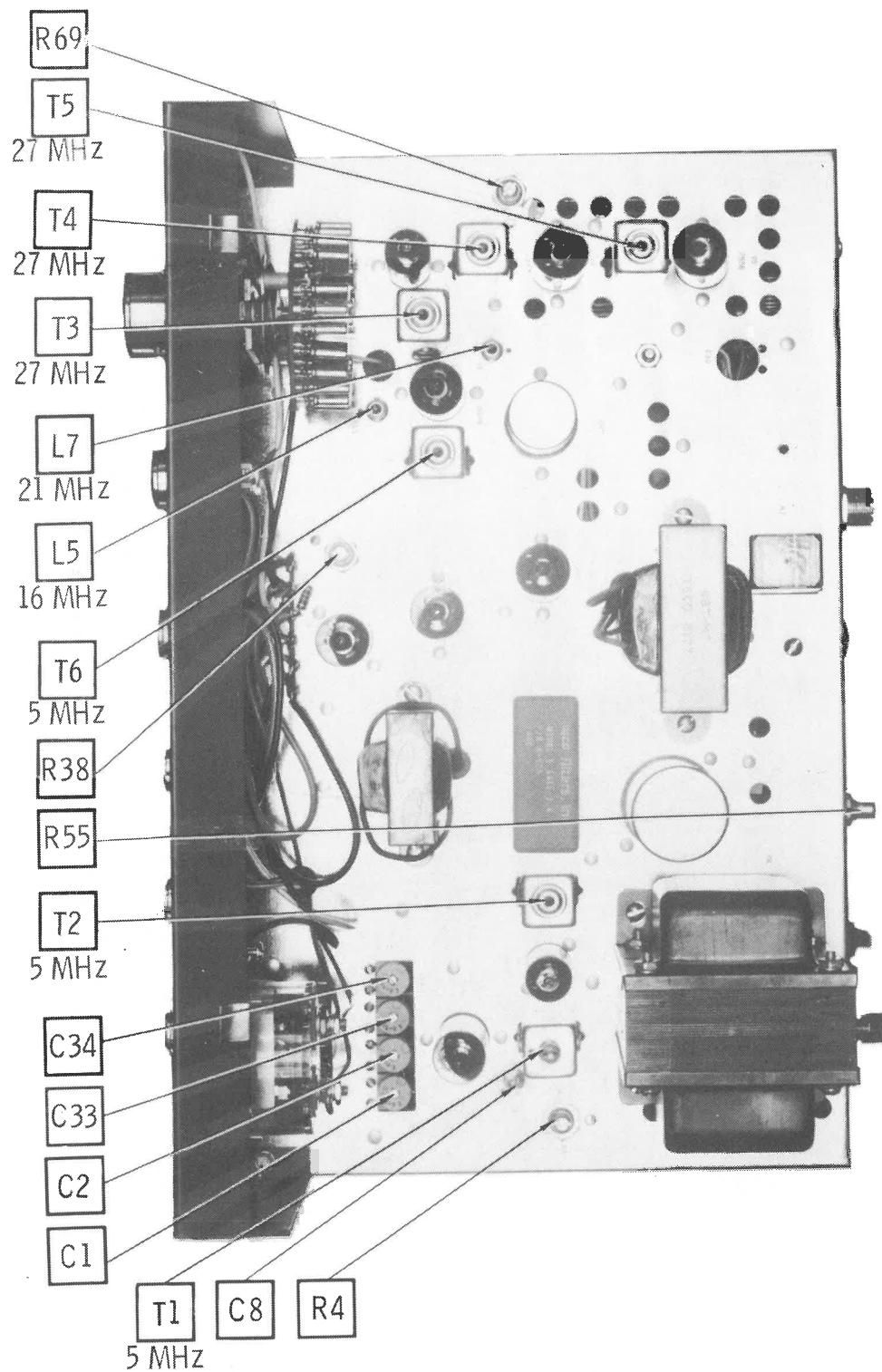
Suggested Alignment Tools: GC ELECTRONICS:
ALL tunable coils and transformers9295

TRANSMITTER

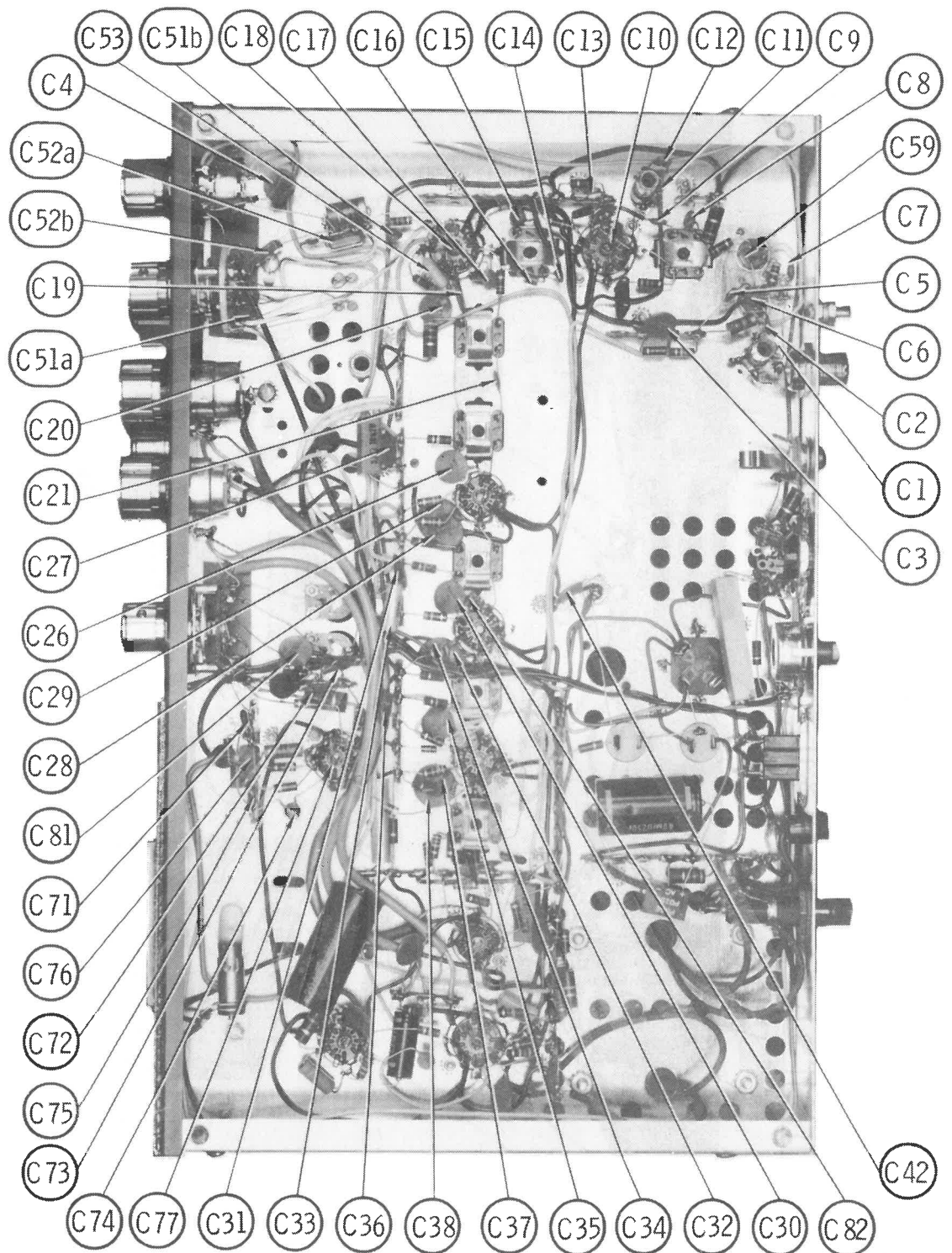
Connect an RF wattmeter or 50-ohm, 25-watt dummy load to antenna connection.
Adjustments made with 120-volt AC input to power supply.

SSB

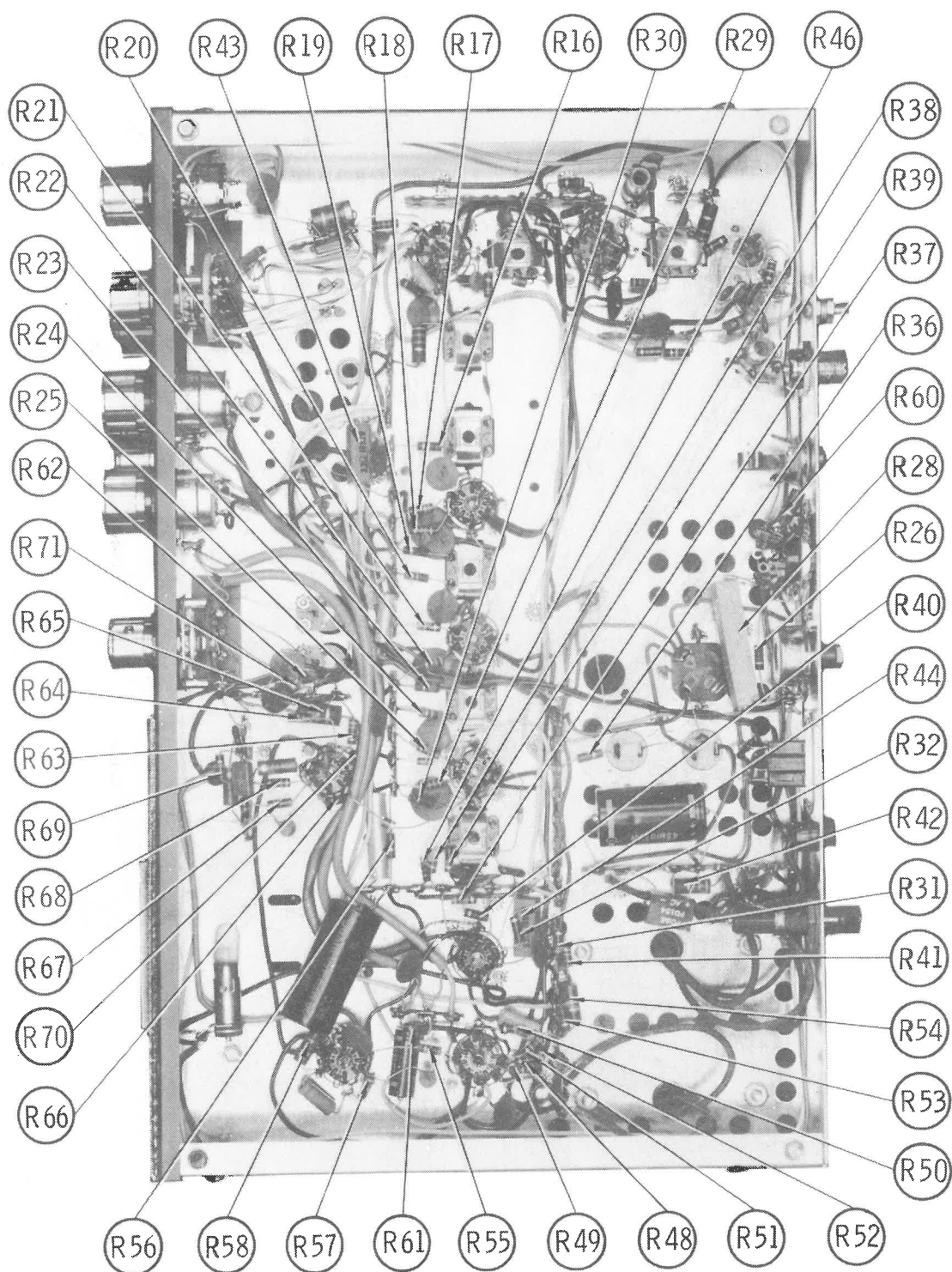
INDICATOR	ADJUST	REMARKS
SSB BIAS RF Wattmeter Frequency Counter Monitor Scope VTVM		Set R69 fully counterclockwise. Set Channel Selector to Ch. 12. Set VFO to center (1/3 mesh). Set Meter Switch to MA. Set Mode Switch to LSB. Connect Wattmeter to antenna jack. Connect Monitor Scope to Wattmeter. Connect Wattmeter to dummy load. Connect Frequency Counter to dummy load. Connect Audio Oscillator to microphone input. Set Audio Oscillator to 1000Hz.
Panel Meter	R55	With Audio Oscillator off, key transmitter. Adjust for center of Bias Marker on meter scale. Re-adjust R69. (See ALC).
VTVM	L5	Connect VTVM to Pin 9 and ground on V6b (6GH8). Adjust for -8 volts on broad side of oscillator slope.
RF Power Wattmeter	T1, T2, T6	Audio Oscillator on, set output for 3 watts on wattmeter. Adjust T1 for maximum. Adjust T2 for the peak with slug at the bottom of the coil. Adjust T6 for the peak with slug at the top of the coil.
CARRIER OSC. Wattmeter	C2	Increase audio oscillator to obtain 5-watt output. Reset audio oscillator to 2900Hz. The power should drop to .05 watts. Adjust for this reading. Decrease audio oscillator frequency to 2700Hz. Power should increase sharply. Reset audio oscillator to 2900Hz.
	C1	Set Mode Switch to USB. The power should be the same as in LSB (.05 watts). Adjust to obtain this reading. Decrease audio oscillator frequency to 2700Hz. The power should increase sharply.
CARRIER BAL. Scope	R4, C8	Set mode switch to LSB. Set audio oscillator output to zero. Remove V7. Connect scope to input of FL1 and ground. Key transmitter and adjust for MINIMUM.
FREQUENCY ADJ Frequency Counter	C34	Set Mode Switch to LSB. Key transmitter. Set audio oscillator to 1000Hz. Set Audio Output to produce 4-watt output. Adjust for 27.114000MHz.
	C33	Set Mode Switch to USB. Repeat above. Adjust for 27.116000MHz.
NEUTRALIZATION OF FINAL DC Ammeter	C23	When a new RF Final is replaced, neutralization should be checked and adjusted if necessary.
ALC Wattmeter Oscilloscope	R69	Set audio oscillator to 1000Hz. Set the output to maintain maximum output. Adjust for 10 watts.
MIC GAIN Wattmeter Modulation Meter or Monitor Scope	R38	Reconnect microphone. Set Mode Switch to AM. Adjust for 100% modulation at normal voice level.



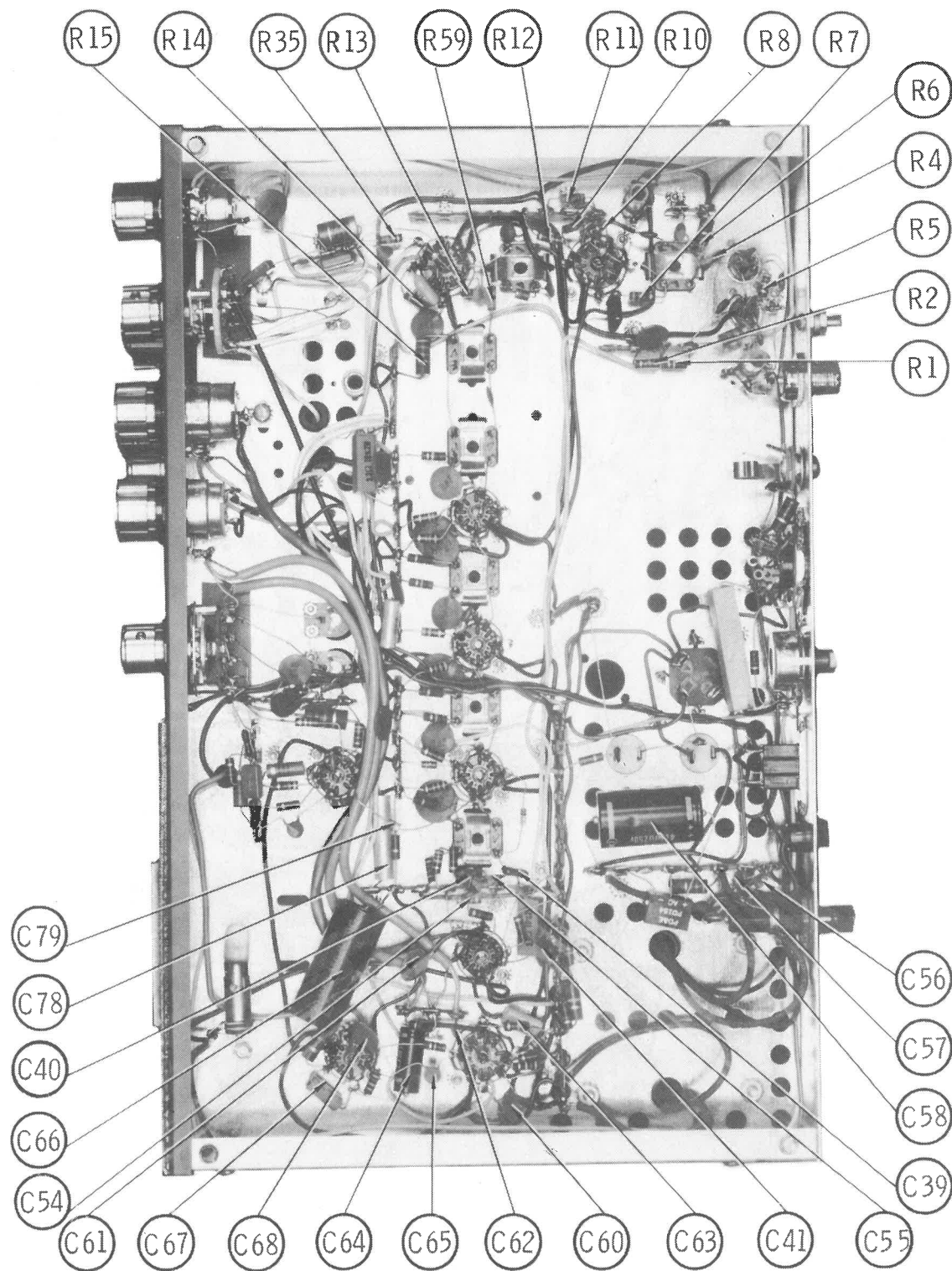
XMIT. CHASSIS



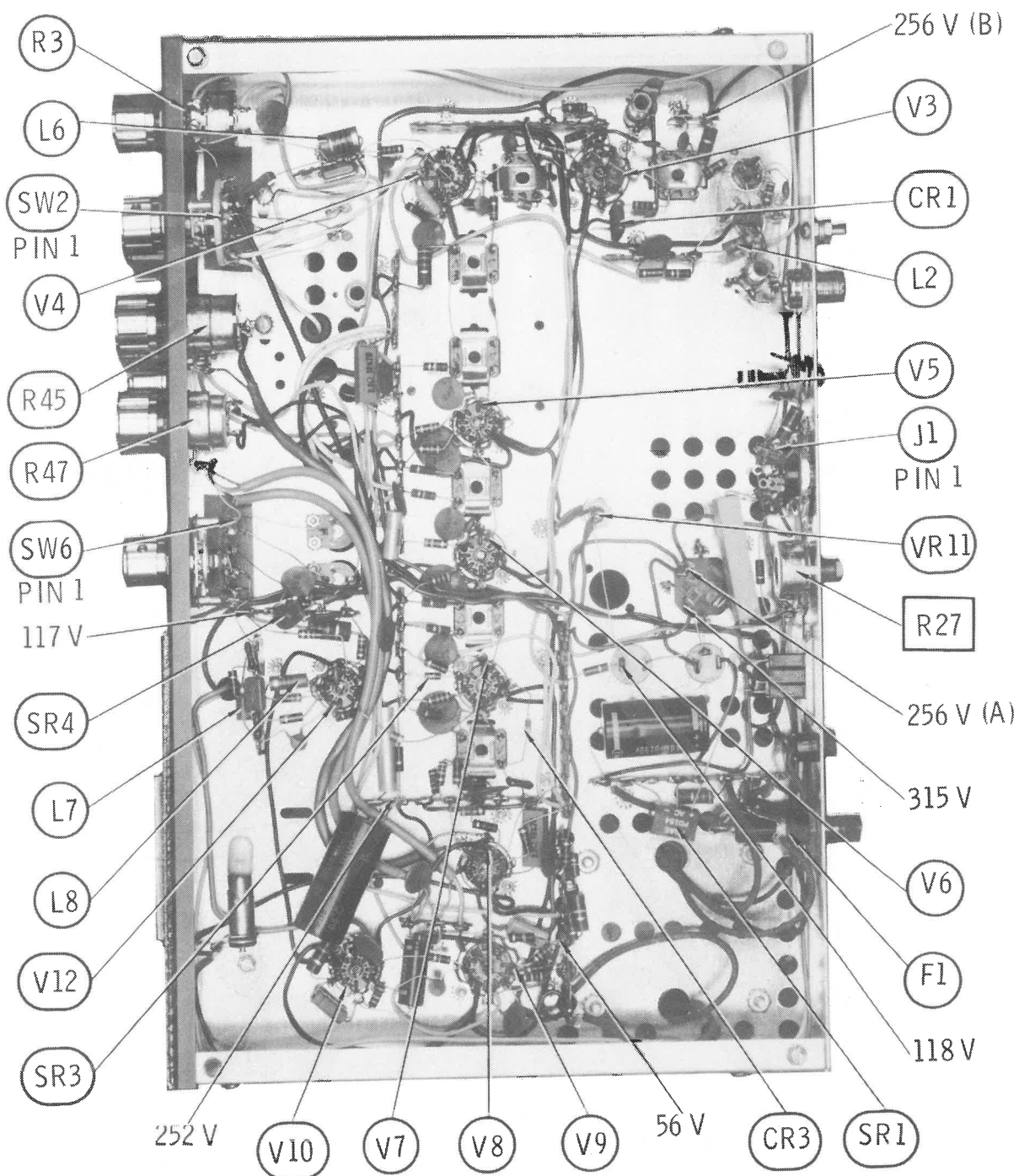
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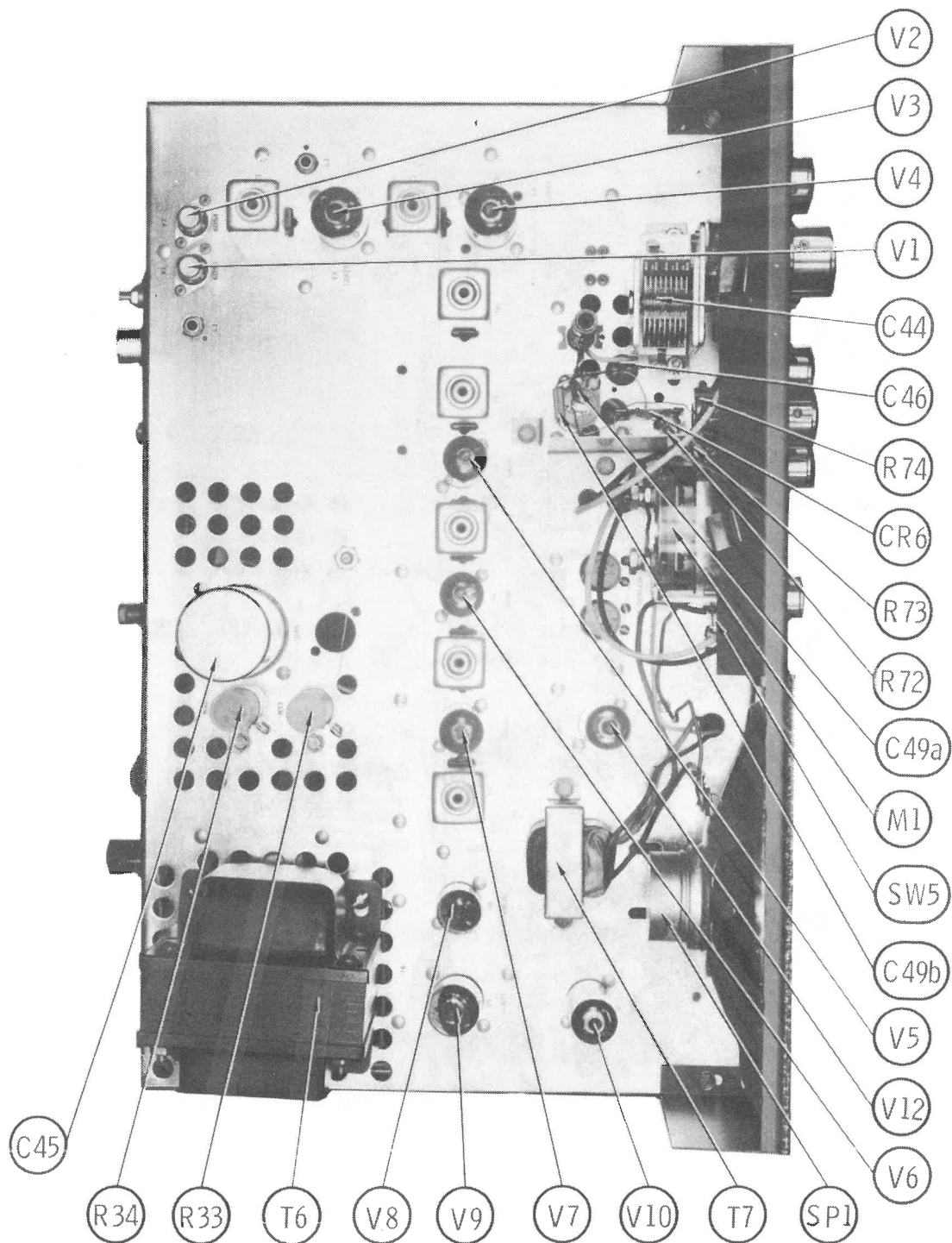
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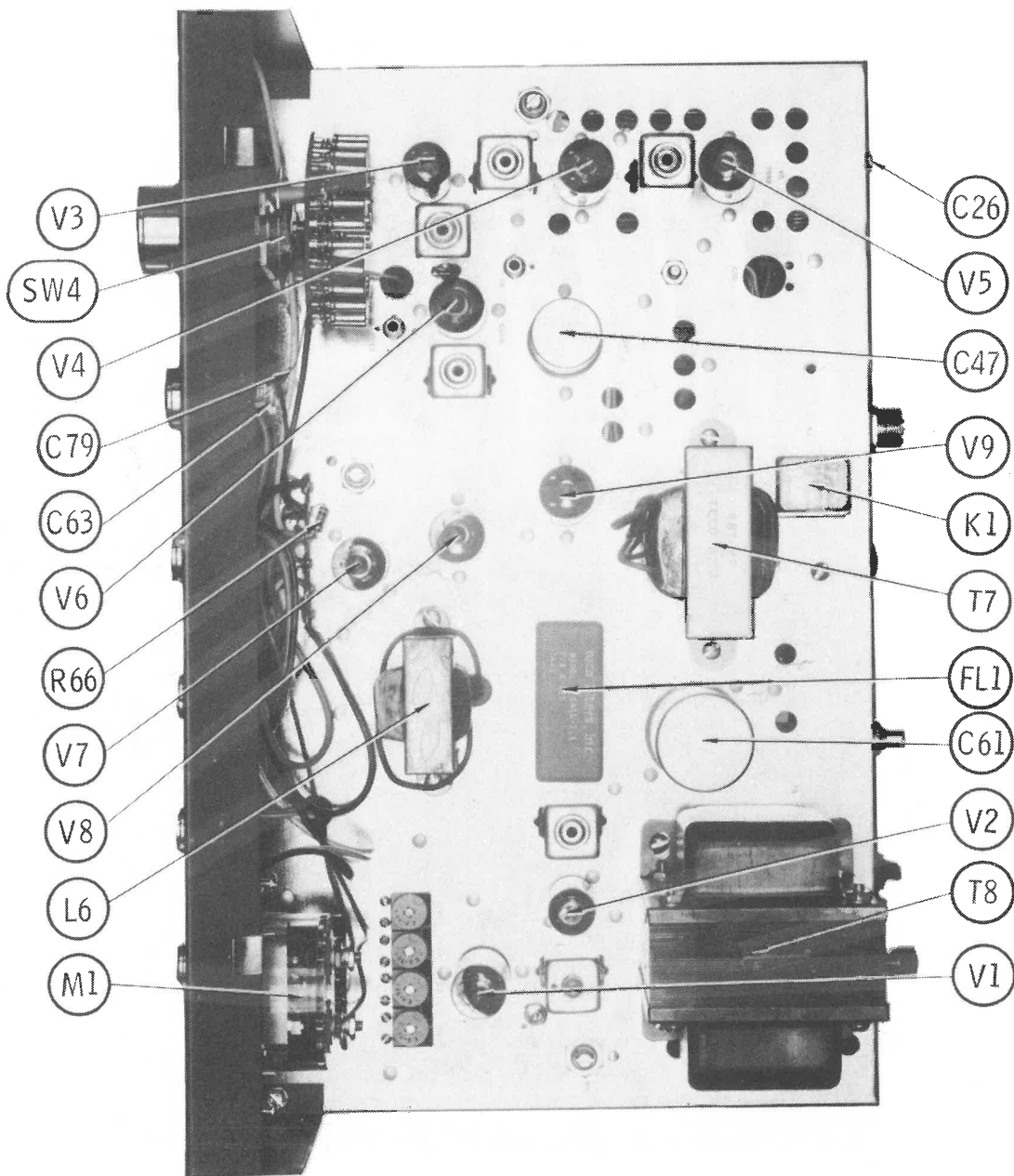
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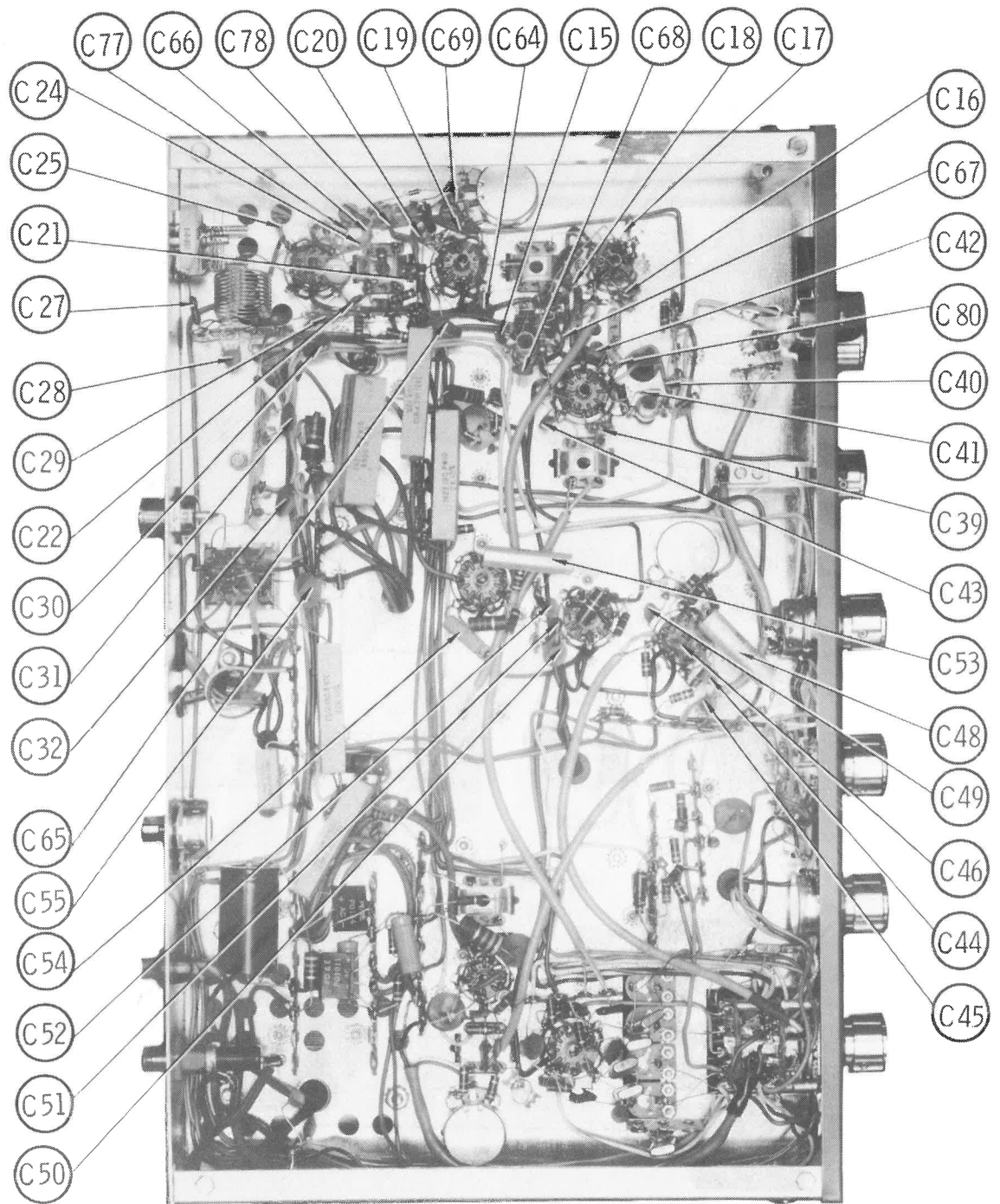
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REC. CHASSIS

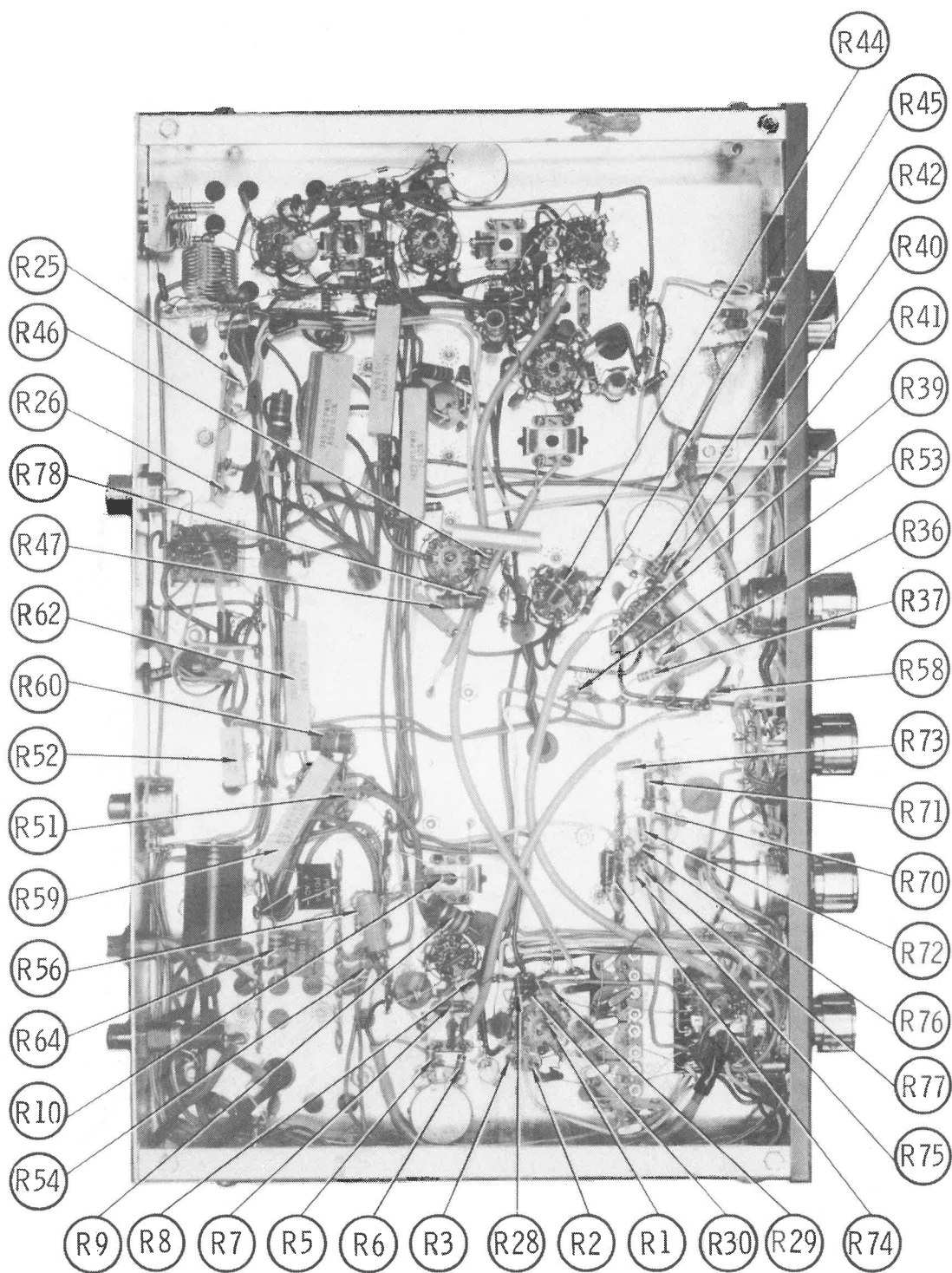


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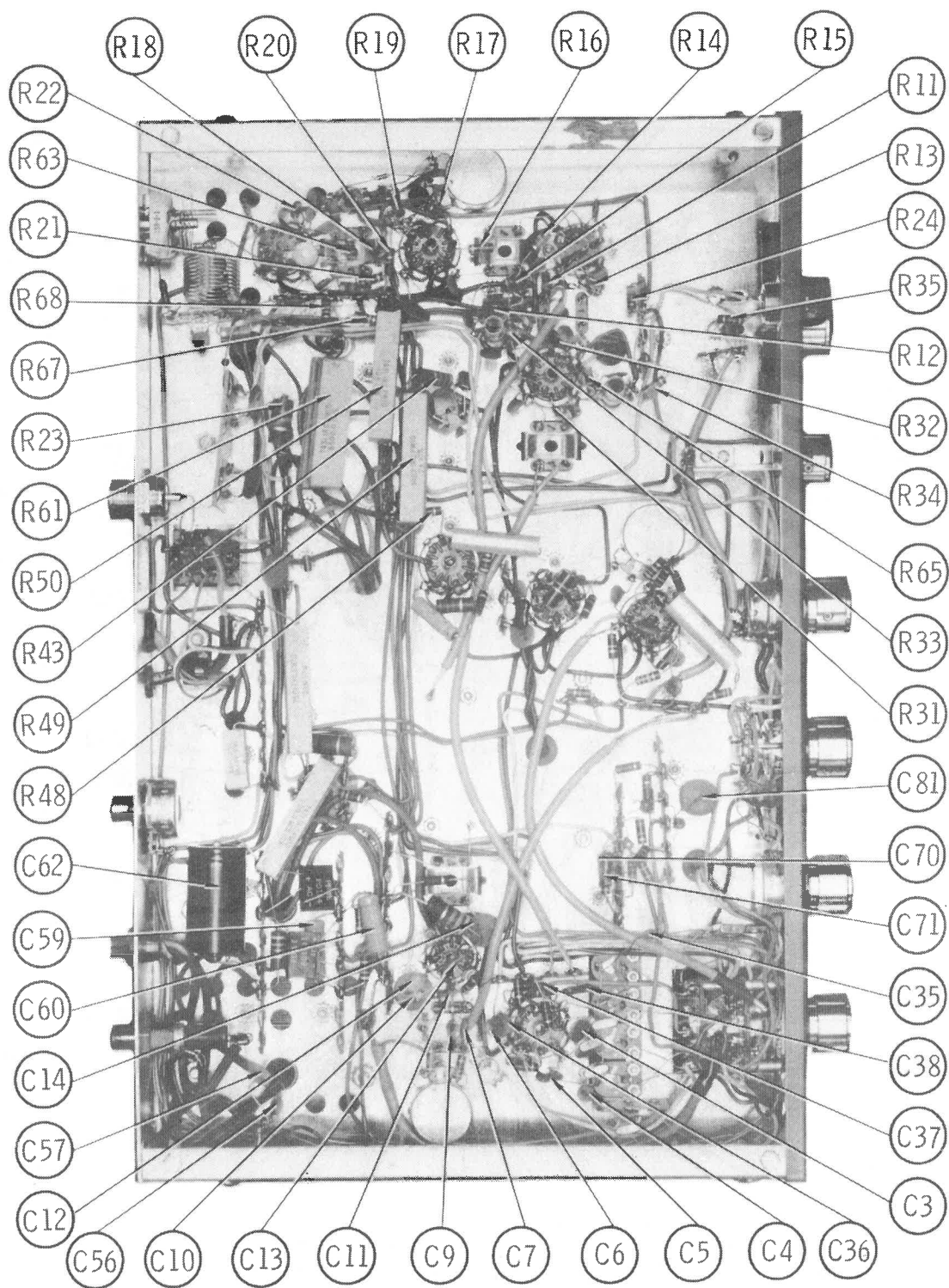


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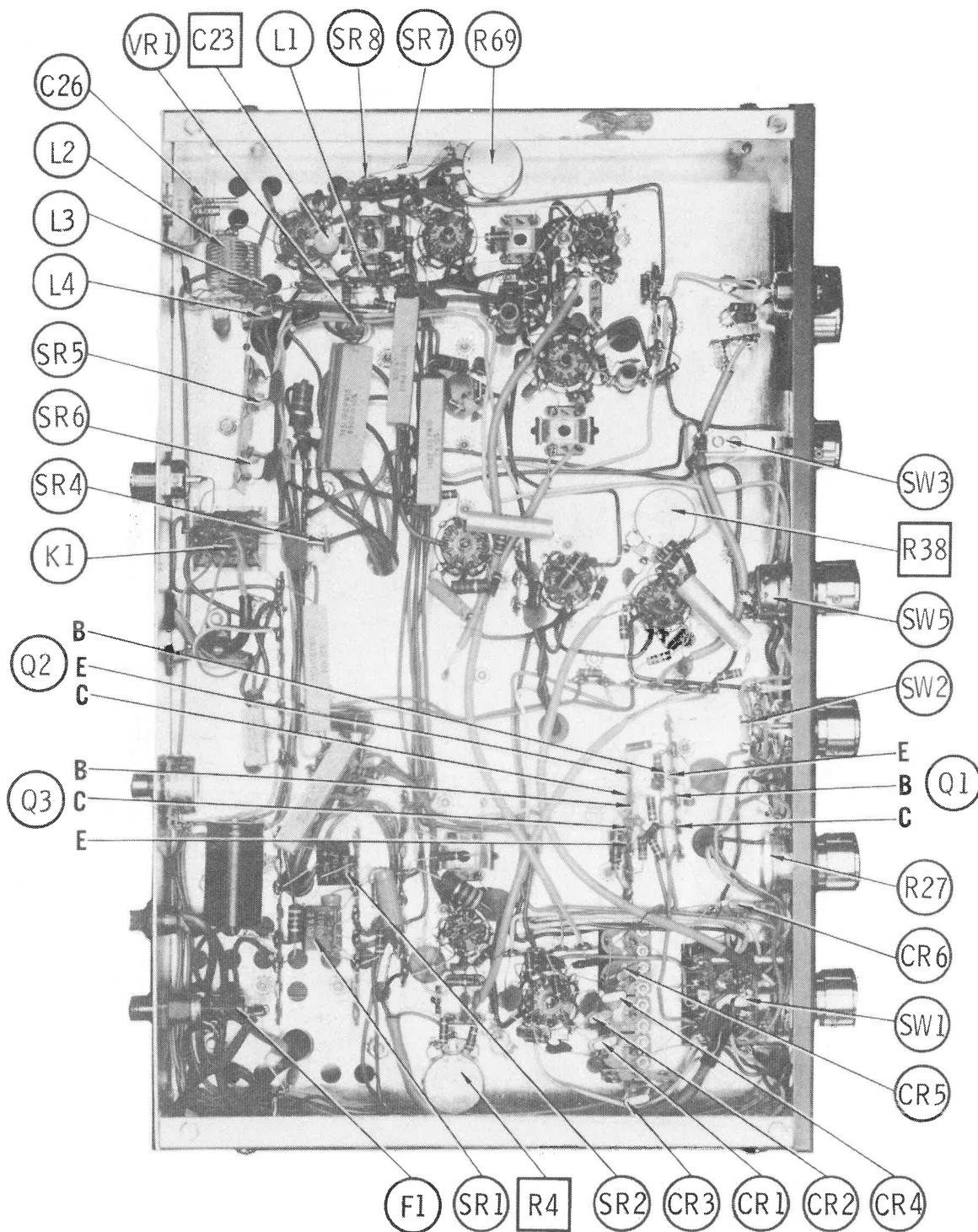
BROWNING MODEL GOLDEN EAGLE MARK III



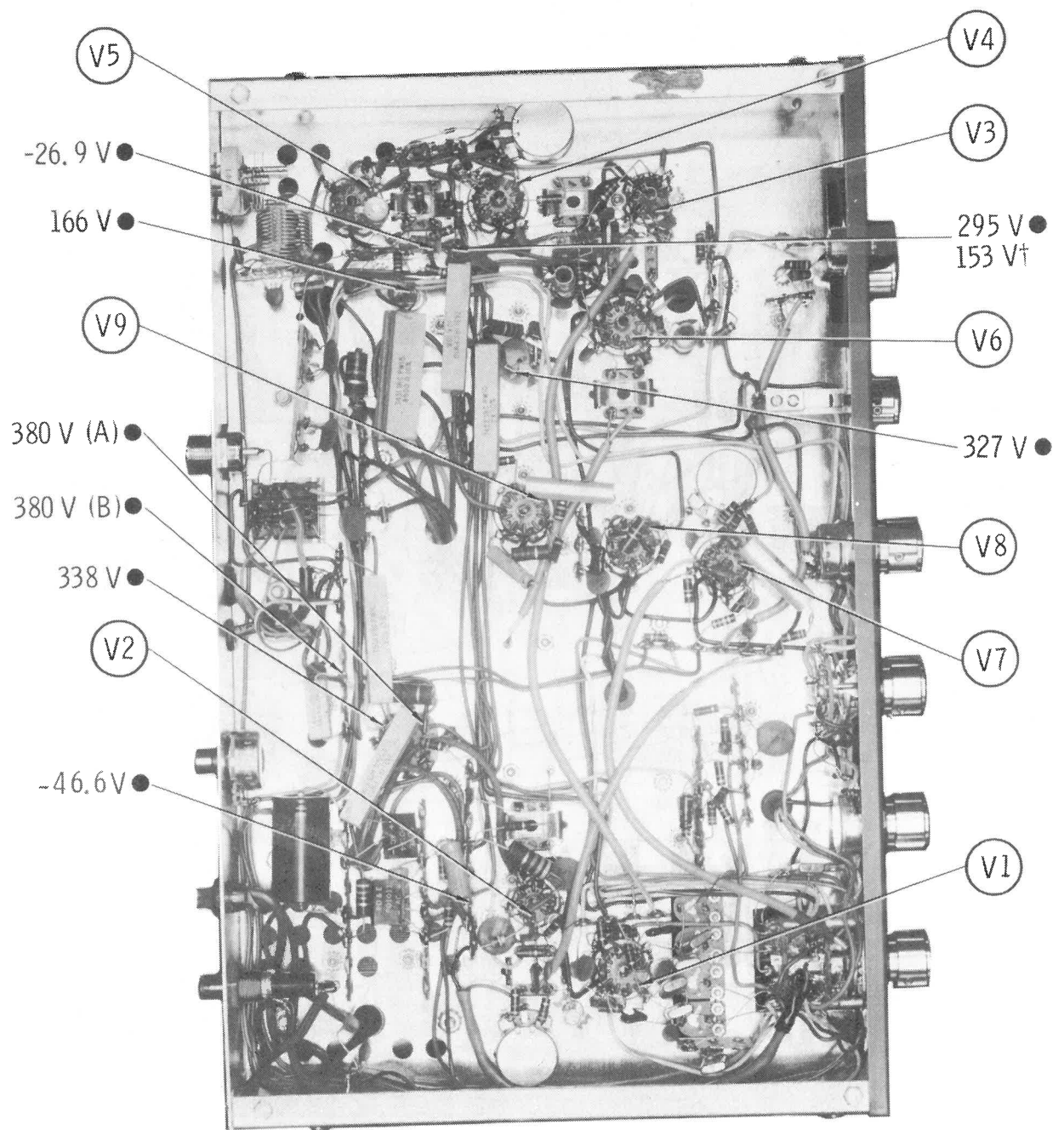
XMIT. CHASSIS



XMIT. CHASSIS



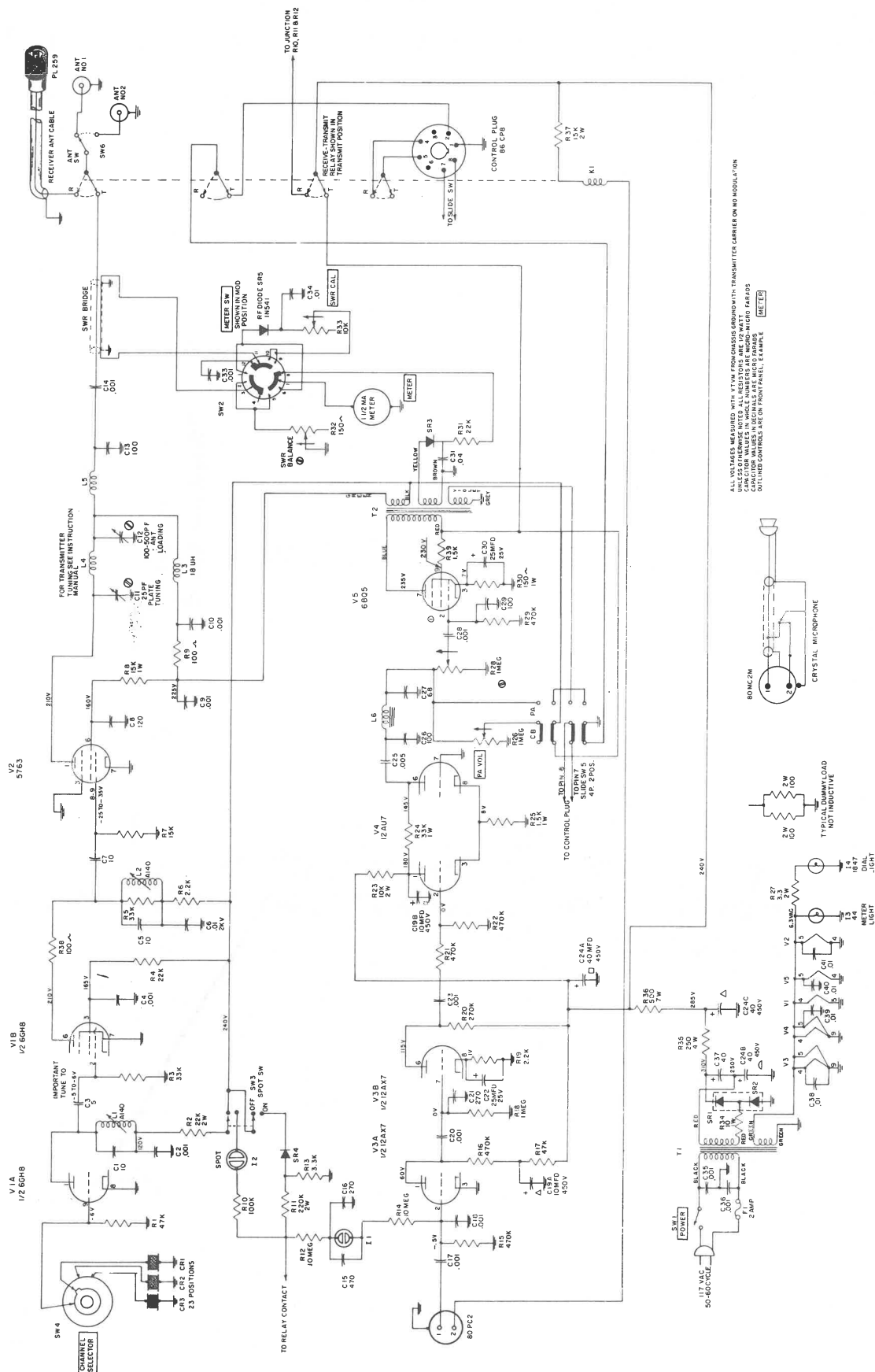
XMIT. CHASSIS



● Transmit
 † Spot on

XMIT CHASSIS

AM XMIT VERSION



NOTE - SEE PAGES 24,25,26,27 FOR SSB XMIT VERSION

BROWNING MODEL GOLDEN EAGLE MARK III

Courtesy of the Manufacturer

RECEIVER RESISTANCE MEASUREMENTS **MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS**

ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9
V1		INF		2.3Meg				1000	
V2		8800 (1)		INF				INF	
V3	9700 (1)	48K	0	Fi1	Fi1	13.9K(1)	490K	0	Fi1
V4	11.8K(1)	68K	0	Fi1	Fi1	52.7K(1)	228K	2000	Fi1
V5	100K (2)	0	Fi1	Fi1	3400 (1)	52.9K(1)	2000		
V6	100K (2)	0	Fi1	Fi1	3400 (1)	51K (1)	2000		
V7	100K (2)	0	Fi1	Fi1	3500 (1)	51K (1)	1700		
V8	1.1Meg(1)	240K	3.2	Fi1	3400	NC	230K (1)		
V9	400K (1)	3.25Meg	10K	Fi1	Fi1	117K(1)	2Meg	20K	0
V10	NC	280	Fi1	Fi1	6800 (1)	3300 (1)	500K		
V12	23K	170	Fi1	Fi1	300K (3) (1)	25K (3) (1)	107K		

1-Measured from SR1 cathode.

2-AGC off

3-Measured in SSB.

TRANSMITTER RESISTANCE MEASUREMENTS **MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS**

ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9
V1	9800 (1)	226K	4000	Fi1	Fi1	9800 (1)	228K	4000	Fi1
V2	50.7K	0	Fi1	Fi1	371K (3) 460K (4)	371K (3) 520K (4)	68		
V3	550	482	Fi1	Fi1	371K (3) 475K (4)	438K (3) 543K (4)	0		
V4	160	24	0	Fi1	Fi1	Fi1	370K (3) 470K (4)	370K (3) 445K (4)	0
V5	11	22K (2)	NC	Fi1	Fi1	368K (3) 472K (4)	0	385K (3) 470K (4)	NC
V6	20K (1)	106	445K (3) 542K (4)	Fi1	Fi1	370K (3) 477K (4)	691	0	108K
V7	500K (1)	2.3Meg	0	Fi1	Fi1	109K (3) 4800 (4)	483K	4200	Fi1
V8	410K (3) 490K (4)	510K	1460	Fi1	Fi1	416K (3) 500K (4)	0	1460	0
V9	0	458K	168	Fi1	Fi1	NC	367K (3) 450K (4)	NC	368K (3) 450K (4)

1- Measured from SR2 cathode.

2- Measured from SR1 anode.

3-AM measured from SR2 cathode.

4-SSB masured from SR2 cathode.

RECEIVER

PARTS LIST AND DESCRIPTION

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

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet 17109 (Plastic) or 17129 (Rubber) -9 feet
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene

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	6DS4	V7	IF Amp	6BA6	V1	RF Amp	6DS4	V7	IF Amp	6BA6
V2	RF Amp	6DS4	V8	AM Det/ANL	6AL5	V2	RF Amp	6DS4	V8	AM Det/ANL	6AL5
V3	1st Osc/Mixer	12AT7	V9	Squelch/AF Amp	12AX7	V3	1st Osc/Mixer	12AT7	V9	Squelch/AF Amp	12AX7
V4	2nd Osc/Mixer	12AT7	V10	Audio Output	6AQ5	V4	2nd Osc/Mixer	12AT7	V10	Audio Output	6AQ5
V5	IF Amp	6BA6	V12	SSB Carrier Osc	6BE6	V5	IF Amp	6BA6	V12	SSB Carrier Osc	6BE6
V6	IF Amp	6BA6				V6	IF Amp	6BA6			

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CR3	1N67	7-0006	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
CR6	1N67	7-0006	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
SR1	PD154	7-0002	GE-504A(2)	8D4(2)	PTC201(2)	HEPR0052(2)	RE 49(2)	SK3030(2)	RT-213(2)	ECG116(2)
SR3	1N4005	7-0004	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
SR4	PD155	7-0008	GE-504A(2)	8D4(2)	PTC201(2)	HEPR0052(2)	RE 49(2)	SK3030(2)	RT-213(2)	ECG116(2)
VR11	1N3005	7-0009		Z1334		HEPZ3536				ECG5220
	100V 10 watt Zener									

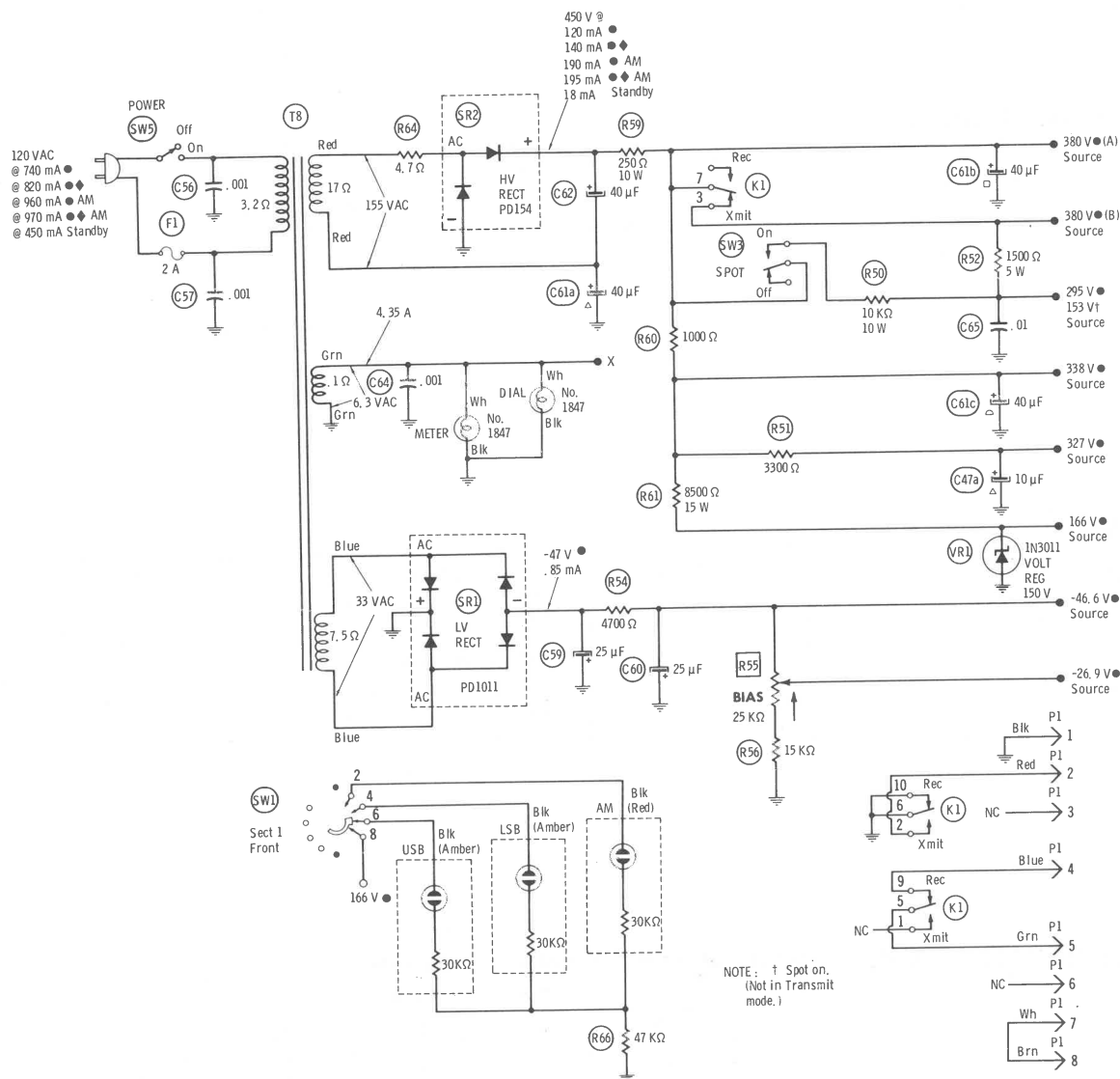
(2) Two required.

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.
C45A	40 450V	2-0386	CTM-3773		CC0350A	FP377.1A	TVL-3787
B	40 450V						
C	40 450V						
C58	40 250V	2-0378	CTA-1340		WBR50-250	TC58A	TVA-1512
C64	4 50V	2-0375	ME-2-J-005	EA50-5	WBR5-50	MTA4D50	TVA-1303
C66	20 450V	2-0381	CTA-1435		WBR20-450	TC75A	TVA-1709
C67	4 50V	2-0372	ME-2-J-005	EA50-5	WBR5-50	MTA4D50	TVA-1303

(CONTINUED ON PAGE 32)

BROWNING MODEL GOLDEN EAGLE MARK III



- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- * Nominal value
- ⊥ Ground
- Chassis
- ▽ Common tie point

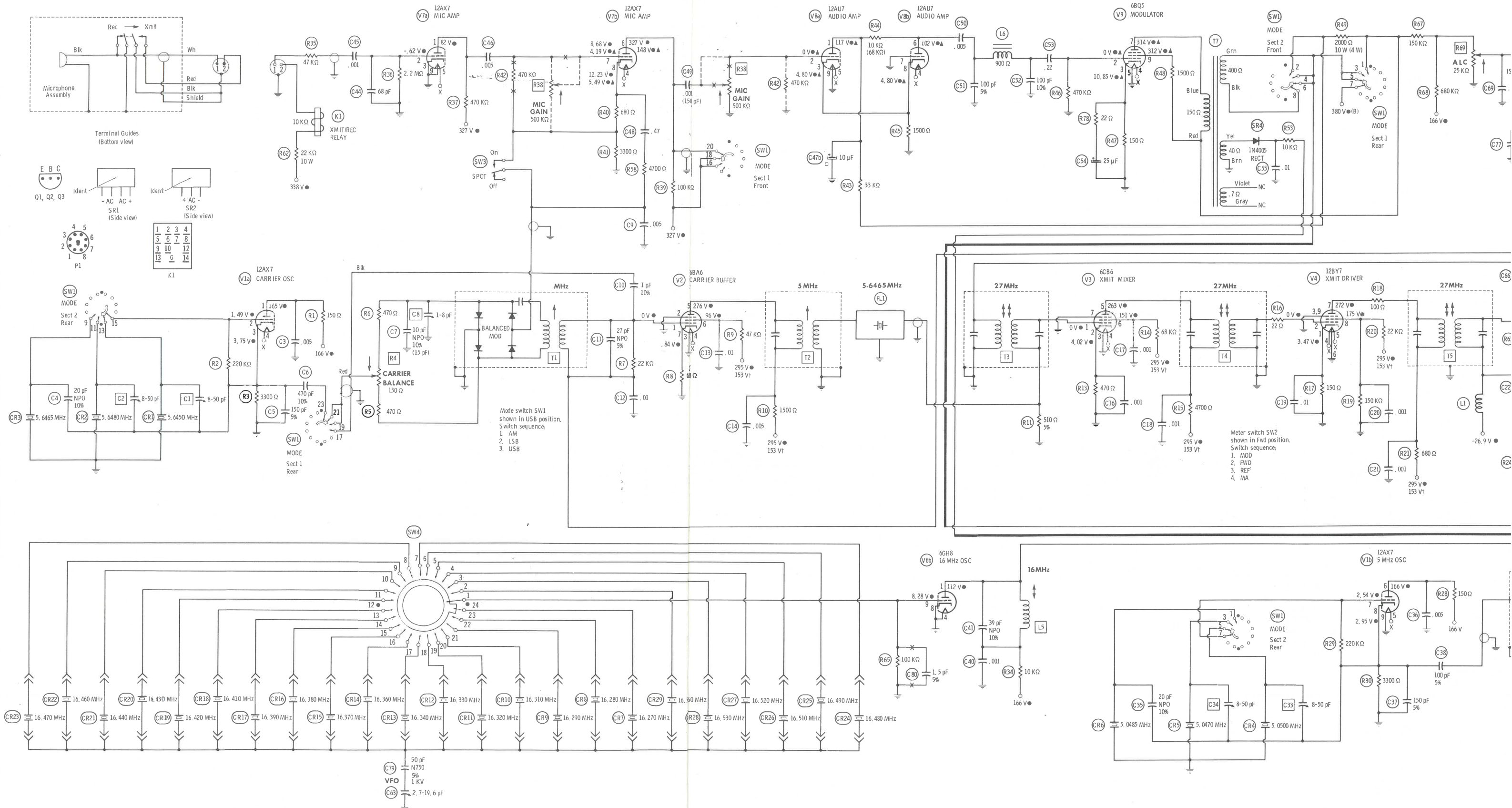
Measurements with switching as shown unless noted:
 ◆ 100% modulation ● Transmit ▲ AM
 Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
 with **Circuitrace**

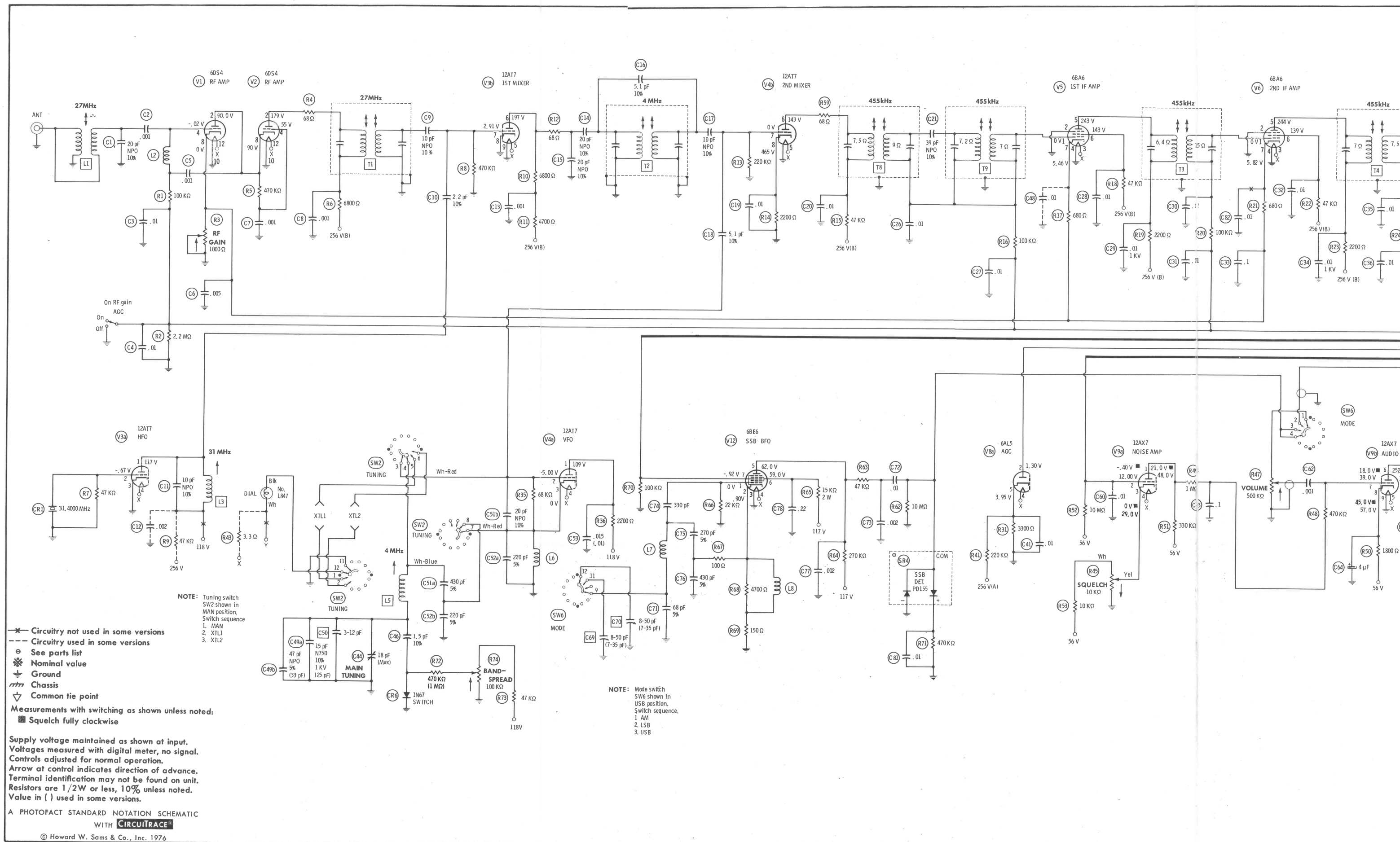
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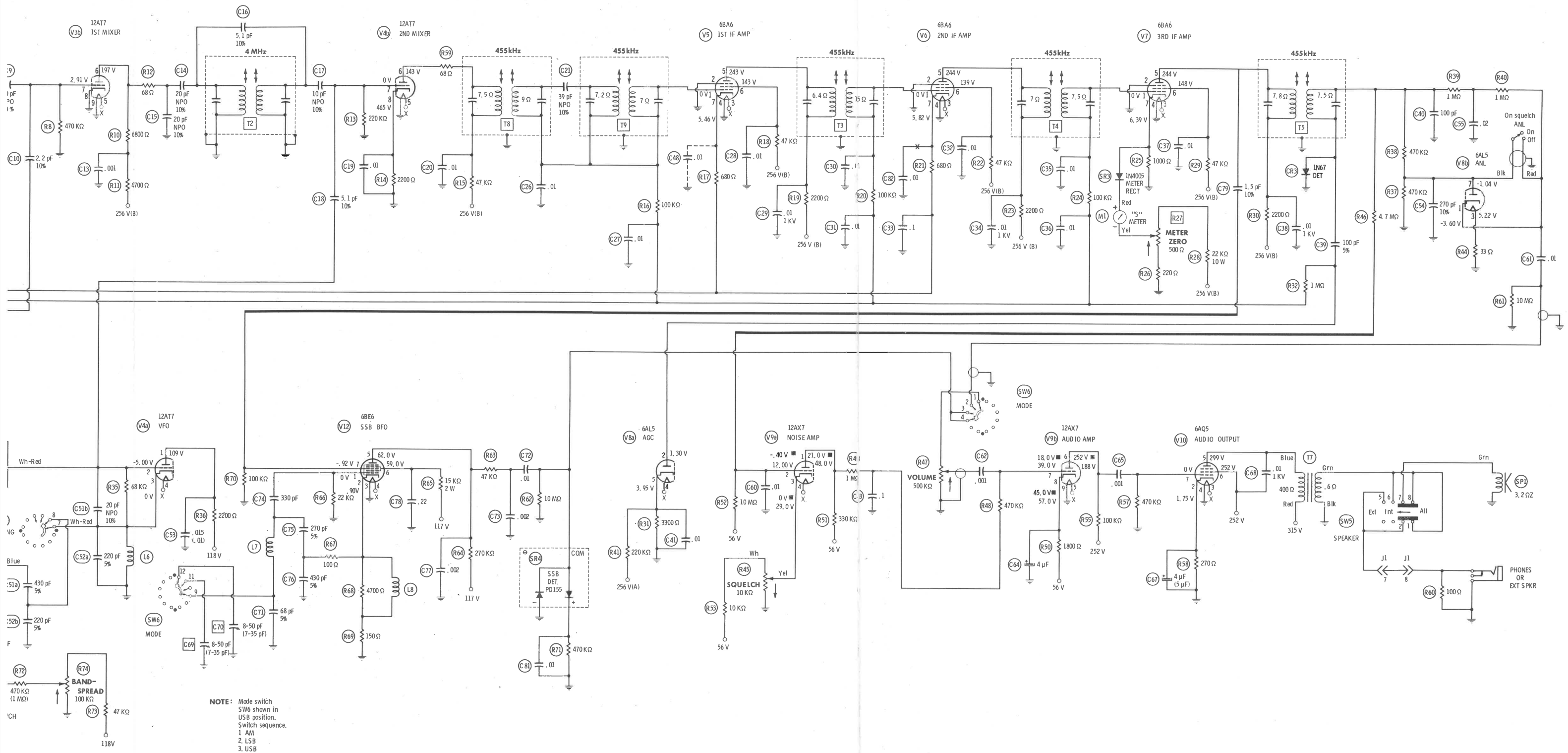
AM		LSB		USB	
Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	CR7, CR3, CR6	1	CR7, CR2, CR5	1	CR7, CR1, CR4
2	CR8, CR3, CR6	2	CR8, CR2, CR5	2	CR8, CR1, CR4
3	CR9, CR3, CR6	3	CR9, CR2, CR5	3	CR9, CR1, CR4
4	CR10, CR3, CR6	4	CR10, CR2, CR5	4	CR10, CR1, CR4
5	CR11, CR3, CR6	5	CR11, CR2, CR5	5	CR11, CR1, CR4
6	CR12, CR3, CR6	6	CR12, CR2, CR5	6	CR12, CR1, CR4
7	CR13, CR3, CR6	7	CR13, CR2, CR5	7	CR13, CR1, CR4
8	CR14, CR3, CR6	8	CR14, CR2, CR5	8	CR14, CR1, CR4
9	CR15, CR3, CR6	9	CR15, CR2, CR5	9	CR15, CR1, CR4
10	CR16, CR3, CR6	10	CR16, CR2, CR5	10	CR16, CR1, CR4
11	CR17, CR3, CR6	11	CR17, CR2, CR5	11	CR17, CR1, CR4
12	CR18, CR3, CR6	12	CR18, CR2, CR5	12	CR18, CR1, CR4
13	CR19, CR3, CR6	13	CR19, CR2, CR5	13	CR19, CR1, CR4
14	CR20, CR3, CR6	14	CR20, CR2, CR5	14	CR20, CR1, CR4
15	CR21, CR3, CR6	15	CR21, CR2, CR5	15	CR21, CR1, CR4
16	CR22, CR3, CR6	16	CR22, CR2, CR5	16	CR22, CR1, CR4
17	CR23, CR3, CR6	17	CR23, CR2, CR5	17	CR23, CR1, CR4
18	CR24, CR3, CR6	18	CR24, CR2, CR5	18	CR24, CR1, CR4
19	CR25, CR3, CR6	19	CR25, CR2, CR5	19	CR25, CR1, CR4
20	CR26, CR3, CR6	20	CR26, CR2, CR5	20	CR26, CR1, CR4
21	CR27, CR3, CR6	21	CR27, CR2, CR5	21	CR27, CR1, CR4
22	CR28, CR3, CR6	22	CR28, CR2, CR5	22	CR28, CR1, CR4
23	CR29, CR3, CR6	23	CR29, CR2, CR5	23	CR29, CR1, CR4

SEE PAGE 21 FOR AM XMIT VERSION









NOTE: Mode switch SW6 shown in USB position. Switch sequence: 1. AM, 2. LSB, 3. USB.

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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 PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	20 NPO 10%		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C2	.001		CCD-102	DD-102		GP210	10TS-D10
C3	.01		CCD-103				10TS-S10
C5	.01		CCD-103				10TS-S10
C5	.001		CCD-102	DD-102		GP210	10TS-D10
C6	.005						
C7	.001		CCD-102	DD-102		GP210	10TS-D10
C8	.001		CCD-102	DD-102		GP210	10TS-D10
C9	10 10% NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C10	2.2 10%		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C11	10 10% NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C12	.002		CCD-202			GP220	10TS-D20
C13	.001		CCD-102	DD-102		GP210	10TS-D10
C14	20 10% NPO		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C15	20 10% NPO		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C16	5.1 10%		CCTO-050				10TCC-V50
C17	10 10% NPO		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C18	5.1 10%		CCTO-050				10TCC-V50
C19	.01		CCD-103				10TS-S10
C20	.01		CCD-103				10TS-S10
C21	39 10% NPO		CCTO-390			CN0439	10TCC-Q39
C26	.01		CCD-103				10TS-S10
C27	.01		CCD-103				10TS-S10
C28	.01		CCD-103				10TS-S10
C29	.01 1KV		CCD-103				10TS-S10
C30	.01		CCD-103				10TS-S10
C31	.01		CCD-103				10TS-S10
C32	.01		CCD-103				10TS-S10
C33	.1 200V		2DP-3-104		DPMS2P1	EW2010	2PB-P10
C34	.01 1KV		CCD-103				10TS-S10
C35	.01		CCD-103				10TS-S10
C36	.01		CCD-103				10TS-S10
C37	.01		CCD-103				10TS-S10
C38	.01 1KV		CCD-103				10TS-S10
C39	100 5%		DM10-101J	CPR-100J	CD10FD101J03	SX310	424MC1000J501
C40	100		CCD-101	DD-101	GP100	GP310	10TS-T10
C41	.01		CCD-103				10TS-S10
C42	.01		CCD-103				10TS-S10
C44	18 max	2-0416					
C46	1.5 10%		CCD-103	DTZ-1R5	NP01P5	CN0515	10TCC-V15
C48	.01		CCTN-150	DTN-15	N15	CN7415	10TS-S10
C49A	15 10% N750 1KV		CCTO-470	DTZ-47	NP047	CN0447	10TCU-Q15
B	47 5% NPO						10TCC-Q47
C50	3-20	2-0419					
C51A	430 5%		DM15-431J	CPR-430J	CD15FD431J03	SX343	424ME4300J501
B	20 10% NPO		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C52A	220 5%		DM10-221J	CPR-220J	CD10FD221J03	SX322	424ME2200J501
B	220 5%		DM10-221J	CPR-220J	CD10FD221J03	SX322	424ME2200J501
C53	.015 400V		4DP-1-153		DPMS4S15	EW4115	4PB-S15
C54	270 10%		DM15-271J	CPR-270J	CD15FD271J03	SX327	424ME2700J501
C55	.02		CCD-203			GP120	5GA-S20
C56	.001		CCD-102	DD-102		GP210	10TS-D10
C57	.001		CCD-102	DD-102		GP210	10TS-D10
C59	.001		CCD-102	DD-102		GP210	10TS-D10
C60	.01		CCD-103				10TS-S10
C61	.01		CCD-103				10TS-S10
C62	.001		CCD-102	DD-102	DPMS2P1	GP210	10TS-D10
C63	.1		1MDF-3-104			EW1A010	1PB-P10
C65	.001		CCD-102	DD-102		GP210	10TS-D10
C68	.01 1KV		CCD-103				10TS-S10
C69	8-50	2-0418					
C70	8-50	2-0418					
C71	68 5%		DM10-680J	CPR-68J	CD6ED680J03	SX468	424MC680J501
C72	.01		CCD-103				10TS-S10
C73	.002		CCD-202			GP220	10TS-D20
C74	330		DM15-331J	CPR-330J	CD15FD331J03	SX333	424ME3300J501
C75	270 5%		DM15-271J	CPR-270J	CD15FD271J03	SX327	424ME2700J501
C76	430 5%		DM15-431J	CPR-430J	CD15FD431J03	SX343	424ME4300J501
C77	.002		CCD-202			GP220	10TS-D20
C78	.22 200V		6DP-5-224		DPMS6P22	EW6022	6PS-P22
C79	1.5 10%			DTZ-1R5	NP01P5	CN0515	10TCC-V15
C81	.01		CCD-103				10TS-S10
C82	.01		CCD-103				10TS-S10

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.	MALLORY PART No.	TRW PART No.
R3	RF Gain/AGC Switch	1000	11-0015 19-7414 (5)	F1-1000, SPU304, KR8FR	NP-1000-S, UPP-A-400, NWG-18	P13L, 3038, FPP1, SL250	BU2, CF6, SS20, K
R27	Meter Zero	500	11-0014 19-7508 (5)	F1-500, SNK010	A47-500K-S, RN-3 or [NP-500-S, NML-A-300]	UA52L, SN1000 or [RU52L, SL39, SN1000]	BU2, CF4, SS6A
R45	Squelch/ANL Switch	10K	11-0016 19-7434 (5)	F1-10K, SPU304, KRSFR	NP-10K-S, UPP-A-400, NWG-18	P14L, 3038, FPP1, SL250	BU2, CF9, SS19, K
R49	Volume/Power Switch	500K	11-0017	F2-500K, SRS012, KR1	A47-500K-Z, RS-2, SWE-12 or [NP-500K-Z, UP-A-400, NWE-12]	UA55A, SL2500, US26 or [RU55A, SL39, SL2500, US41]	BU2, CF25, SS5, GC
R74	Band Spread	100K	11-0018	F1-100K, SRS102, CA005, BA010		P15L, 3078, SF3000	BU14(19), CF13, SS5, DC1

(5) Number on unit.

(19) Cut 5/16" from bushing.

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.
R28	2200 10W WW		1-0968	R33	10K 10W WW	20-160	1-0970
R34	1.25K 10W WW	10WSQ1.25K	1-0969				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Antenna (27MHz)	3-0010			
L2	RF Choke (18uH)	3-0005			
L3	HFO Osc. (31MHz)	3-0008			
L5	VFO (4MHz)	3-0011			
L6	RF Choke	3-0012			
L7	RF Choke	3-0013			
L8	RF Choke	3-0013			
T1	Rec RF Amp (27MHz)	4-0006	A-546ES		
T2	Rec Mixer (4MHz)	4-0009	C-141ES		
T3	Interstage IF (455kHz)	4-0010	C584ES		
T4	Interstage (455kHz)	4-0010	C584ES		
T5	Output IF (455kHz)	4-0010	C584ES		
T8	Input IF (455kHz)	4-0010	C584		
T9	Interstage IF (455kHz)	4-0010	C584		

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T6	120V AC @ 660mA AC	132V AC @ 420mA AC	4-0008			
	SEC. 2	SEC. 3				
	6.3V AC @ 3.3A AC					

BROWNING MODEL GOLDEN EAGLE MARK III

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.	THORDARSON PART No.	TRIAD PART No.	
T7	32K	3.2	4-0012			

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	4" x 6" PM 3.2 ohms	14-0010	46A1	

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 Fast Acting	10-0005	10-0002	AGC2	HKP	312002	342012A	FG2-2

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
CR1	31.4000	16-0009	AMB20W31.400						

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Meter	15-0003	S-Meter
SW1	Switch	11-0015	AGC (Part of RF Gain)
SW2	Switch	11-0012	Tuning
SW3	Switch	11-0016	ANL (Part of Squelch)
SW4	Switch	11-0017	On-Off (Part of Volume)
SW5	Switch	11-0013	(Int-Ext ALL) Speaker
SW6	Switch	11-0011	Mode

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

ITEM	PART No.	ITEM	PART No.
Front Panel	5-0035	Brass Eagle	5-0019
Bottom Plate	5-0009	Dial	13-0003
Dust Cover	5-0010	Knob, Tuning	6-0001
Speaker Grille	5-0034	Knob, Control	6-0002
(On the Air) Bezel	5-0018		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Line Cord	10-0004	

TRANSMITTER

PARTS LIST AND DESCRIPTION (CONTINUED)

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

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet 17109 (Plastic) or 17129 (Rubber) -9 feet
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene

TUBES

AMPEREX			GENERAL ELECTRIC			RCA			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Carrier Osc/5MHz Synth.Osc.	12AX7	V6	16MHz Synth.Osc/Mixer	6GH8	V7	Mic. Amp/Buffer	12AX7	V8	Audio Amp	12AU7
V2	Carrier Buffer	6BA6	V8	Audio Amp	12AU7	V9	Modulator	6BQ5			
V3	Mixer	6CB6									
V4	Driver	12BY7									
V5	Final	7558									

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q1	2N5087	7-0014	GE-65	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-115	ECG159
	2N5086(1)		GE-65	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-115	ECG159
	2N5401(1)		GE-65	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-115	ECG159
Q2	2N5087	7-0014	GE-65	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-115	ECG159
	2N5086(1)		GE-65	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-115	ECG159
	2N5401(1)		GE-65	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-115	ECG159
Q3	T3565	7-0015	GE-212	TR-21	PTC153	HEPS0025	RE 78	SK3122	RT-102	ECG123A
	2N5209(1)		GE-212	TR-21	PTC153	HEPS0025	RE 78	SK3122	RT-102	ECG123A
	2N5550(1)		GE-212	TR-78	PTC153	HEPS0005	RE 78	SK3045	RT-102	ECG194
SR1	PD1011	7-0003	GE-600	18DB1A	PTC401	HEPR0805	RE 49(3)	SK3105	RT-213(3)	ECG166
SR2	PD154	7-0002	GE-504A(2)	8D4(2)	PTC201(2)	HEPR0552(2)	RE 49(2)	SK3030(2)	RT-213(2)	ECG116(2)
SR4	1N4005	7-0004	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
SR5	1N541	7-0005	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
SR6	1N541	7-0005	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
SR7	1N914	7-0013	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	1N4148(1)		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
SR8	1N914	7-0013	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	1N4148(1)		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
VR1	1N3011	7-0007	GE-300	Z1338	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
	150V 10 watt Zener									ECG5226

- (1) Alternate.
(2) Two required.
(3) Four required.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFG. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C47A	10 450V	2-0384	CTM-2750		BB0490A	TCD72	TVA-2750
B	10 450V						
C54	25 25V	2-0370	ME-3-G-025	EA30-25	WBR25-25	TC26C	TVA-1205
C59	25 50V	2-0373	ME-4-J-025	EA50-25	WBR25-50	MTA25E50	TVA-1306
C60	25 50V	2-0373	ME-4-J-025	EA50-25	WBR25-50	MTA25E50	TVA-1306
C61A	40 450V	2-0386	CTM-3772		CC0350A	FP377.1A	TVL3787
B	40 450V						
C	40 450V						
C62	40 250V	2-0378	CTA-1450		WBR50-450	TC79B	TVA-1713
C70	2.2 50V	2-0374	ME-1-G-002	EA30-2	WBR2-50	TT25X2	TVA-1201
C71	1 50V	2-0460	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	8-50	2-0415					10TS-D50
C2	8-50	2-0415					10TCC-Q20
C3	.005		CCD-502				424MC1500J501
C4	20 10% NPO		CCTO-200	DTZ-20	NP020	CN0420	10TS-T47
C5	150 5%		DM10-151J	CPR-150J	CD7FD151J03	SX315	10TCC-Q10
C6	470 10%		CCD-471	DD-471	GP470	GP347	
C7	10 10% NPO		CCTO-100	DTZ-10	NP010	CN0410	
C8	1-8	2-0414	CCD-502				10TS-D50
C9	.005					CN0510	10TCC-V10
C10	1 10%					CN0427	10TCC-Q27
C11	27 5% NPO		CCTO-270				10TS-S10
C12	.01		CCD-103				10TS-S10
C13	.01		CCD-103				10TS-D50
C14	.005		CCD-502				10TS-D10
C15	.001		CCD-102	DD-102		GP210	10TS-D10
C16	.001		CCD-102	DD-102		GP210	10TS-D10
C17	.001		CCD-102	DD-102		GP210	10TS-D10
C18	.001		CCD-102	DD-102		GP210	10TS-S10
C19	.01		CCD-103				10TS-D10
C20	.001		CCD-102	DD-102		GP210	10TS-D10
C21	.001		CCD-102	DD-102		GP210	10TS-D10
C22	220 10%		CCD-221	DD-221		GP322	10TS-T22
C23	2-8	2-0417					10TS-S10
C24	.01		CCD-103				10TS-T27
C25	270 10%		CCD-271	DD-271	GP270	GP327	
C26	2.7-26						
C27	250 5%		DM10-251J		CD10FD251J03		10TS-D10
C28	.001		CCD-102	DD-102		GP210	10TS-D10
C29	.001		CCD-102	DD-102	CD6ED680J03	GP210	424MC680J501
C30	68 5%		DM10-680J	CPR-68J		SX468	10TS-S10
C31	.01		CCD-103				10TS-S10
C32	.01		CCD-103				
C33	8-50	2-0415					10TCC-Q20
C34	8-50	2-0415					10TS-D50
C35	20 10% NPO		CCTO-200	DTZ-20	NP020	CN0420	424MC1500J501
C36	.005		CCD-502				424MC1100J501
C37	150 5%		DM10-151J	CPR-150J	CD7FD151J03	SX315	10TCC-V10
C38	100 5%		DM10-111J	CPR-110J	CD10FD111J03	SX311	10TS-D10
C39	1 10%					CN0510	10TCC-Q39
C40	.001		CCD-102	DD-102		GP210	10TS-D10
C41	39 10% NPO		CCTO-390			CN0439	10TS-D10
C42	.001		CCD-102	DD-102		GP210	10TS-D10
C43	.001		CCD-102	DD-102		GP210	10TS-Q68
C44	68		CCD-680	DD-680	GP68	GP468	10TS-D10
C45	.001		CCD-102	DD-102		GP210	10TS-D50
C46	.005		CCD-502				1PB-P47
C48	.47 100V		1MDF-4-474		DPMS2P47	EWFA047	10TS-D10
C49	.001		CCD-102	DD-102		GP210	10TS-D50
C50	.005		CCD-502				424MC1000J501
C51	100 5%		DM10-101J	CPR-100J	CD10FD101J03	SX310	10TS-T10
C52	100 10%		CCD-101	DD-101	GP100	GP310	6PS-P22
C53	.22 200V		6DP-5-224		DPMS6P22	EWFA022	10TS-S10
C55	.01		CCD-103				10TS-D10
C56	.001		CCD-102	DD-102		GP210	10TS-D10
C57	.001		CCD-102	DD-102		GP210	
C63	2.7-19.6	2-0425					10TS-D20
C64	.002		CCD-202				10TS-S10
C65	.01		CCD-103				10TCC-V33
C66	3.3 10%		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V10
C67	1 10%					CN0510	10TCC-Q33
C68	33 10% NPO		CCTO-330	DTZ-33	NP033	CN0433	5GA-S40
C69	.04		CCD-403			GP140	10TCC-Q30
C77	30 10%		CCTO-300				5GA-S40
C78	.04		CCD-403			GP140	10TCU-Q47
C79	50 5% 1KV N750			DTN-47	N47	CN7447	10TCC-V15
C80	1.5 5%			DTZ-1R5	NP01P5	CN0515	5GA-S40
C81	.04		CCD-403			GP140	

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.	MALLORY PART No.	TRW PART No.
R4	Carrier Balance	150	11-0007	F1-200, SRS008	NP-200-S, UP-A-400	P22L, 3014, SF3000	
R27	SWR Cal.	5000	11-0010	F1-5000, SRS010	A47-5000-S, RS-2 or [NP-5000-S, UP-A-400]	UA53L, SL2500 or [RU53L, SL38, SL2500]	BU1, CF8, SS5, DC1
R38	Audio Gain	500K	11-0009	F2-500K, SRS008	A47-500K-Z, RS-2 or [NP-500K-Z, UP-A-400]	UA55A, SL2500 or [RU55A, SL38, SL2500]	BU1, CF25, SS5, DC1
R55	Bias	25K	11-0008 19-7421 (5)	F1-25K, SRS008	A47-25K-S, RS-2 or [NP-25K-S, UP-A-400]	UA253L, SL2500 or [RU253L, SL38, SL2500]	BU1, CF11, SS5, DC1
R69	ALC	25K	11-0008 19-7421 (5)	F1-25K, SRS008	A47-25K-S, RS-2 or [NP-25K-S, UP-A-400]	UA253L, SL2500 or [RU253L, SL38, SL2500]	BU1, CF11, SS5, DC1

(5) Number on unit.

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	15K 4W WW	20-038	1-0962	R59	250 10W WW	10W-SQ250	1-0965
R49	2K 4W WW		1-0963	R61	8.5K 12W WW		1-0966
R52	1.5K 5W WW	5W-SQ1.5	1-0964				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (18uH)	3-0005			
L2	Final Tank	3-0009			
L3	RF Choke (18uH)	3-0005			
L4	Final Tank (.33uH)	3-0006			
L5	16MHz Osc (1uH)	3-0008			
L7	Synth Mixer (21MHz)	3-0008			
T1	Buffer Input (5MHz)	4-0005	A542		
T2	Buffer Output (5MHz)	4-0007	A-529ES		
T3	Xmit Mixer (27MHz)	4-0004	A-541ES		
T4	Xmit Driver (27MHz)	4-0006	A-546ES		
T5	Driver (27MHz)	4-0006	A-546ES		
T6	Synth. Osc.(5MHz)	4-0007	A-529ES		

CHOKE (Audio Output)

ITEM No.	INDUCTANCE	REPLACEMENT DATA			NOTES
		MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L6	20H	3-0007 C1515 (1)			(1) Number on unit

TRANSFORMER (MODULATION)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T7	1	2	.5	4-0003 6BT-MT (1)			(1) Number on unit

BROWNING MODEL GOLDEN EAGLE MARK III

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
			MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC. 1				
T8	120V AC @ 970mA AC	155V AC @ 600mA AC	4-0002 (3532A A-547:2) (1)			(1) Number on unit
	SEC. 2	SEC. 3				
	33V AC @ 2mA	6.3V AC @ 4.35A				

FUSE DEVICES

FUSE DEVICES		REPLACEMENT DATA						
ITEM No.	DESCRIPTION	PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
		F1	2 Amp Fast Acting	10-0005	10-0002	AGC2	HKP	312002

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.	CTS KNIGHTS PART No.	CHANNEL
CR1	5.6450	16-0002	BV90 W5.6450	1-23 USB	CR15	16.370	16-0008 (1)	AV20 M16.370	9
CR2	5.6480	16-0003	BV90 W56480	1-23 LSB	CR16	16.380	16-0008 (1)	AV20 M16.380	10
CR3	5.6465	16-0006	BV90 W5.6465	1-23 AM	CR17	16.390	16-0008 (1)	AV20 M16.390	11
CR4	5.0500	16-0004	CV90 W5.0500	1-23 USB	CR18	16.410	16-0008 (1)	AV20 M16.410	12
CR5	5.0470	16-0005	CV90 W5.0470	1-23 LSB	CR19	16.420	16-0008 (1)	AV20 M16.420	13
CR6	5.0485	16-0007	CV90 W5.0485	1-23 AM	CR20	16.430	16-0008 (1)	AV20 M16.430	14
CR7	16.270	16-0008 (1)	AV20 M16.270	1	CR21	16.440	16-0008 (1)	AV20 M16.440	15
CR8	16.280	16-0008 (1)	AV20 M16.280	2	CR22	16.460	16-0008 (1)	AV20 M16.460	16
CR9	16.290	16-0008 (1)	AV20 M16.290	3	CR23	16.470	16-0008 (1)	AV20 M16.470	17
CR10	16.310	16-0008 (1)	AV20 M16.310	4	CR24	16.480	16-0008 (1)	AV20 M16.480	18
CR11	16.320	16-0008 (1)	AV20 M16.320	5	CR25	16.490	16-0008 (1)	AV20 M16.490	19
CR12	16.330	16-0008 (1)	AV20 M16.330	6	CR26	16.510	16-0008 (1)	AV20 M16.510	20
CR13	16.340	16-0008 (1)	AV20 M16.340	7	CR27	16.520	16-0008 (1)	AV20 M16.520	21
CR14	16.360	16-0008 (1)	AV20 M16.360	8	CR28	16.530	16-0008 (1)	AV20 M16.530	22
					CR29	16.560	16-0008 (1)	AV20 M16.560	23

(1) Crystals for Channel 1-23.
Specify channel.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FL1	Ceramic Filter	10-0006	5.6465MHz
K1	Relay	15-0001	10K ohm
M1	Meter	10-0007	S/RF/Mod/Bias
	Socket	9-0002	Relay
	Socket	9-0003	7 Pin
	Socket		9 Pin

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

ITEM	PART No.	ITEM	PART No.
Front Panel	5-0008	Knob, Tuning	6-0001
Bottom Plate	5-0009	Knob, Control	6-0002

ACCESSORIES

ITEM	MFR. PART No.	REMARKS
Microphone	14-0002	
Deluxe Microphone GD104	14-0012	
AC Line Cord	10-0004	