



TRADE NAME	Heath Models CB-1 (Kit), W-CB-1 (Wired)
MANUFACTURER	Heath Co., A Subsidiary of Daystrom Inc., Benton Harbor, Michigan
TYPE SET	AC-Battery Operated 4 Tube Citizens Band Transmitter-Receiver
POWER SUPPLY	105 — 125 Volts AC, 50-60 Cycles (or) 6 Volt Storage Battery (or) 12 Volt Storage Battery
RATING	26 Watts, .28 Amp. @117 Volts AC (Receiver); 32 Watts, .34 Amp. @117 Volts AC (Transmit) 1.8 Amp. @6.3 Volts DC .9 Amp. @12.6 Volts DC
TUNING RANGE	Any One of Citizens Band Channels 1 thru 23 (Transmitter is Crystal Controlled, Receiver is Continuously Tuneable)

ALIGNMENT PROCEDURE

If the Tuning Capacitor fails to cover the proper tuning range, adjust A1.
Connect the DC probe of the VTVM to pin 7 (grid) of the Final, Common to chassis. Switch on Transmitter and adjust A2 for maximum deflection. Using a field strength meter, adjust A3 for maximum output from the transmitter.
If the transmitter interferes with TV reception, adjust trap A4 for MINIMUM interference.

NOTICE

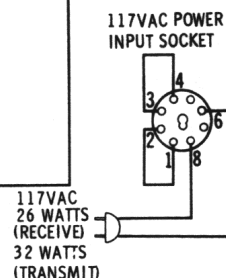
ONLY THOSE PERSONS PROPERLY LICENSED BY FCC ARE PERMITTED TO MAKE CRYSTAL SUBSTITUTION OR EFFECT REPAIRS ON THE TRANSMITTER PORTION OF THIS UNIT.

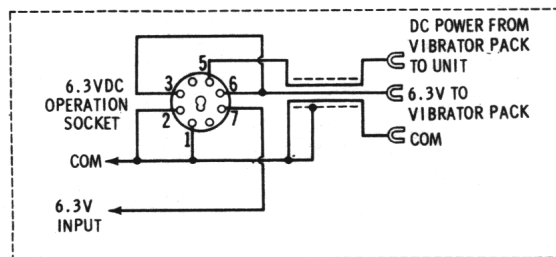
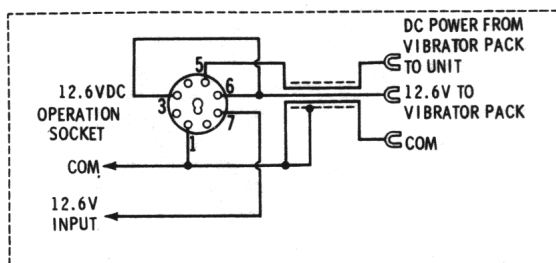
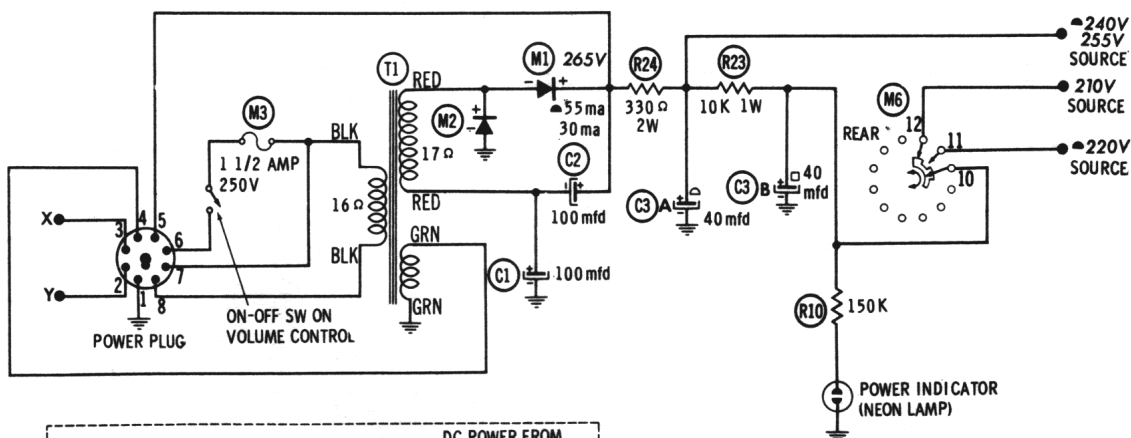
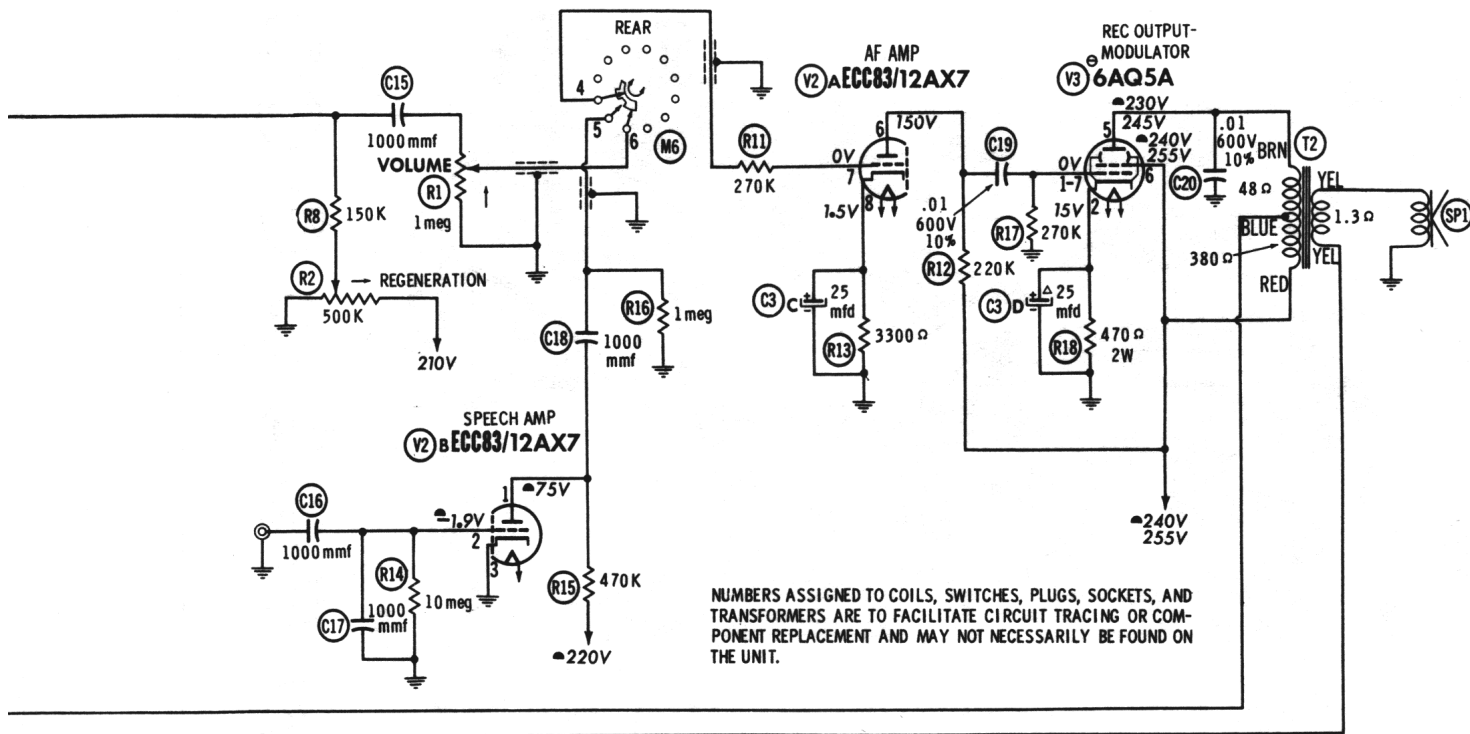
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



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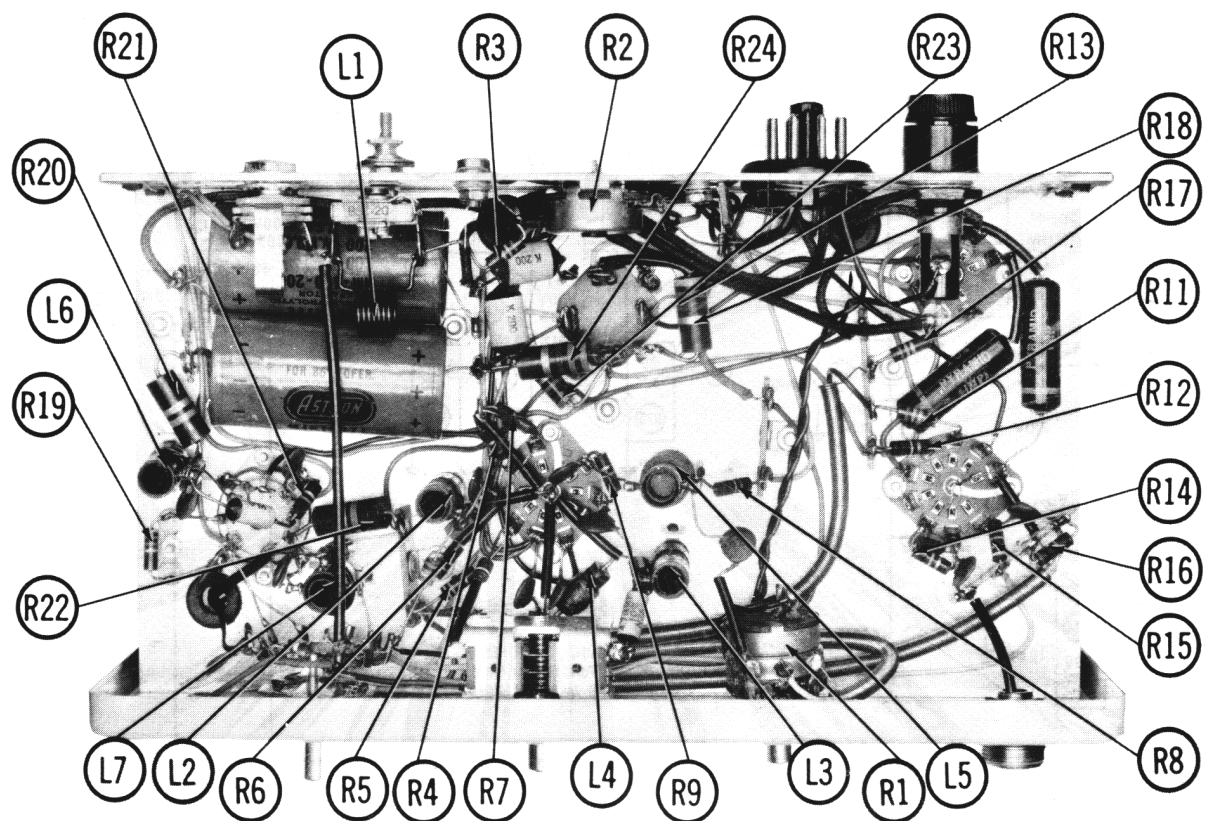
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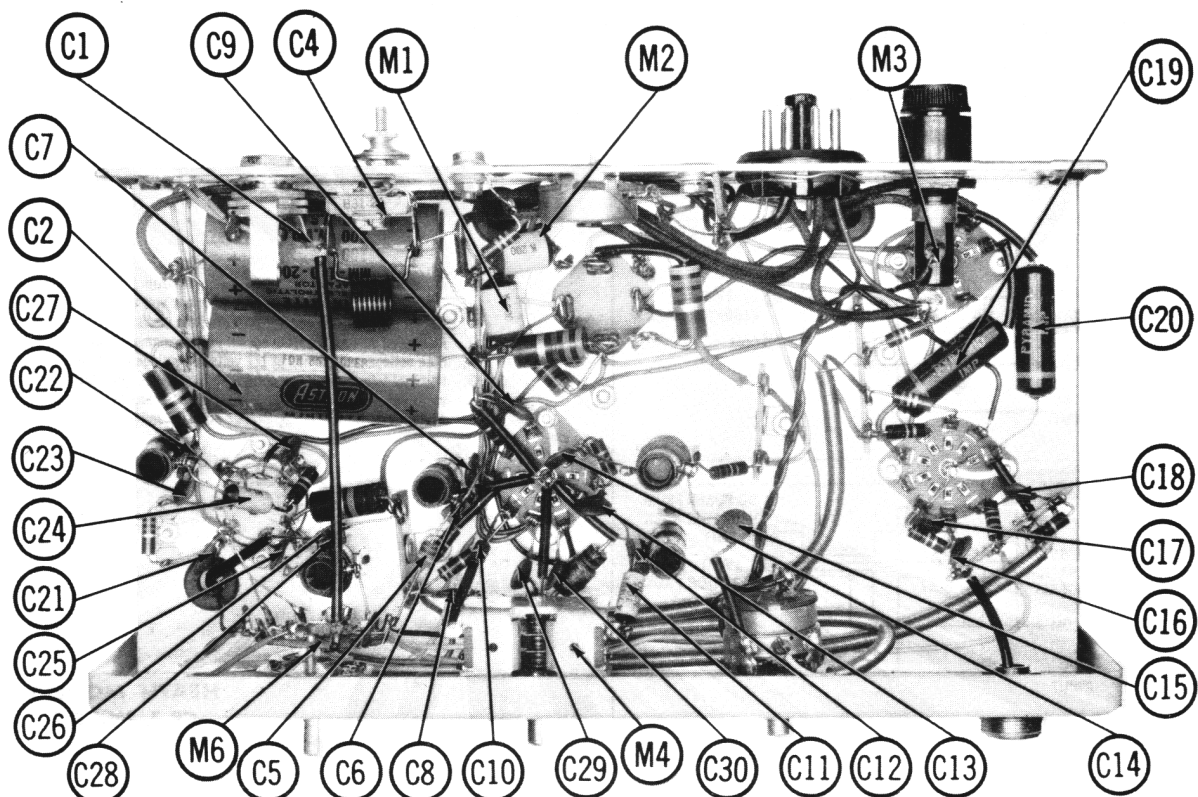


1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

**HEATH MODELS
CB-1, W-CB-1**



CHASSIS BOTTOM VIEW - RESISTOR & INDUCTOR IDENT.



CHASSIS BOTTOM VIEW - CAPACITOR & MISC. IDENT.

PARTS LIST AND DESCRIPTIONS (Continued)

FIXED 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.
C27	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C28	12 10%		1469-000012	TCZ-12	22R5Q12	CM-19B-120K	CNO-412	MS-412
C29	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C30	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10

Heath Part Number.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST-ANCE	WATTS	HEATH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
RIA	1meg	½	A-19-27	B-70-8 Not Req.	A47-1meg-Z FS-3	Q13-137 Not Req.	U53 Not Req.	Volume
B	Shaft			Not Req.	SWE-12	76-1	US-26	
C	Switch	½	E-10-60	Not Req.	B47-500K-8	BL1-133	TA55L	Power Off-On Regeneration
R2A	500K			Not Req.	Not Req.	TM4	Not Req.	
B	Shaft							

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R3	270K				R14	10meg			
R4	2700Ω				R15	470K			
R5	4700Ω				R16	1meg			
R6	220K				R17	270K			
R7	470Ω				R18	470Ω 2W			
R8	150K				R19	47K			
R9	10meg				R20	22K 2W			
R10	150K				R21	22K			
R11	270K				R22	22K 2W			
R12	270K				R23	10K 1W			
R13	3300Ω				R24	330Ω 2W			

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		HEATH PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	RF Trap	D-45-49 *					* L1 thru L7 may be ordered as a set (Part # 141-1). ① Wound on 3300Ω.
L2	Ant.	V-40-186 *					
L3	Osc.	V-40-186 *					
L4	RF Choke	45-26 * ①					
L5	RF Choke (75MH)	45-48 *					
L6	Osc. Plate	V-40-186 *					
L7	Final Plate	V-40-187 *					

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	HEATH PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	117V @ .34A	100V @ .200A AC	6.3V @ 1.9A	54-87					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	HEATH PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	8700Ω Tap @ 12%	3-4Ω	51-43		A-3817			

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	HEATH PART No.	QUAM PART No.	
SP1	3½"	PM	3-4Ω	401-21	3A07	

POWER RECTIFIERS

ITEM No.	RATING (Measured)	REPLACEMENT DATA				NOTES
		HEATH PART No.	RCA PART No.	SARKIS TARZIAN PART No.	SYLVANIA PART No.	
M1	.055A	57-23	1N1763	2F4	SR200	
M2	.055A	57-23	1N1763	2F4	SR200	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			HEATH PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M3	3AG	1½A 250V			31201, 5 (3AG 1½A 250V)	342001	AGC 1½	HKP

MISCELLANEOUS

ITEM No.	PART NAME	HEATH PART No.	NOTES
M4	Tuning Cap.	25-56	Receiver
M5	Crystal	404-14	Channel 1
	Crystal	404-15	Channel 2
	Crystal	404-16	Channel 3
	Crystal	404-17	Channel 4
	Crystal	404-18	Channel 5
	Crystal	404-19	Channel 6
	Crystal	404-20	Channel 7
	Crystal	404-21	Channel 8
	Crystal	404-22	Channel 9
	Crystal	404-23	Channel 10
	Crystal	404-24	Channel 11
	Crystal	404-25	Channel 12
	Crystal	404-26	Channel 13
	Crystal	404-27	Channel 14
	Crystal	404-28	Channel 15
	Crystal	404-29	Channel 16
	Crystal	404-30	Channel 17
	Crystal	404-31	Channel 18
	Crystal	404-32	Channel 19
	Crystal	404-33	Channel 20
	Crystal	404-34	Channel 21
	Crystal	404-35	Channel 22
	Crystal	404-36	Channel 23
M6	Switch Microphone	63-210 480-8	Function (Rotary Type)

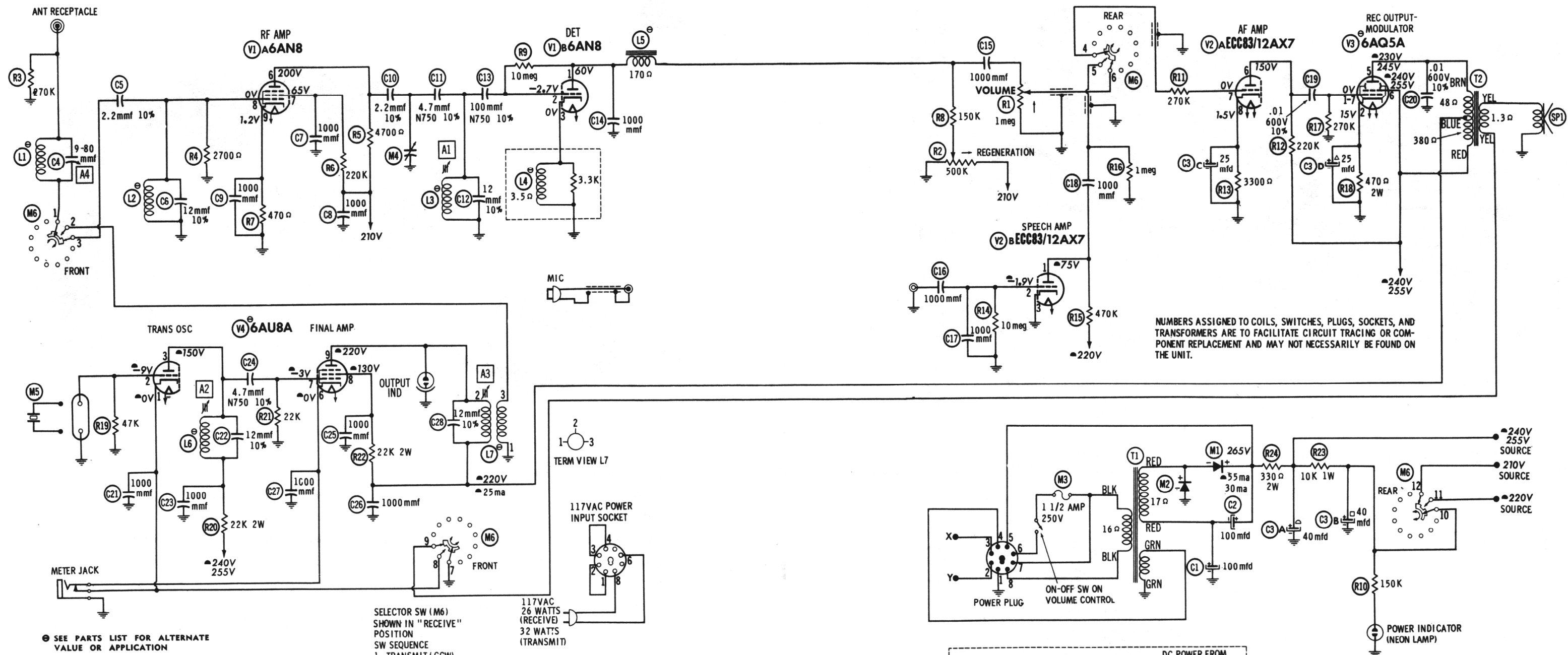
CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	462-85	Volume, Tuning
Knob	462-86	Function Selector
Handle	211-16	Plastic
Cabinet	90-111	

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
8524 (Stranded) Available in Ten Colors
Power Cord Use BELDEN No. 1765-B (6 Ft. Length)
1725-K (7½ Ft. Length)



SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

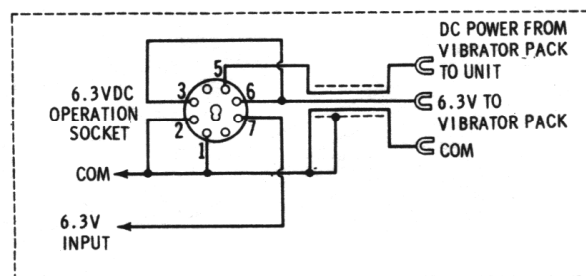
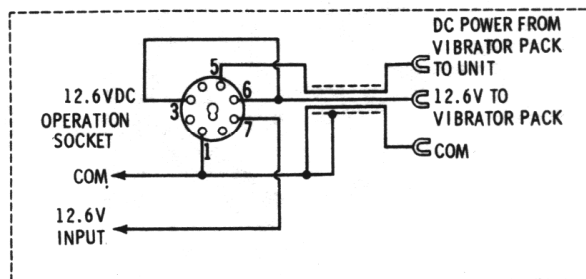
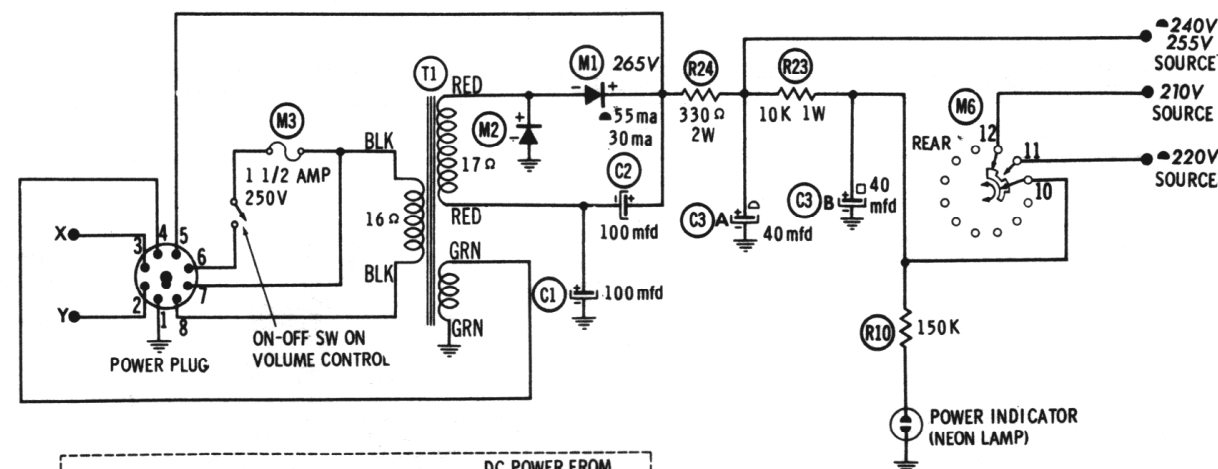
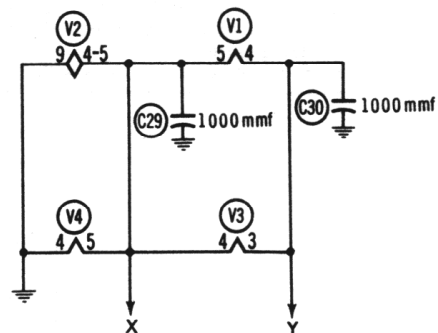
RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6AN8	†800K	†11 meg	3.5 Ω	FILS	FILS	†15K	†230K	.1 Ω	470 Ω
V2	ECC83/12AX7	†480K	10 meg	0 Ω	FILS	FILS	†220K	†1.3 meg	3300 Ω	
V3	6AQ5A	270K	470 Ω	FILS	FILS	†760 Ω	†330 Ω	270K		
V4	6AU8A	0 Ω	47K	†22K	FILS	FILS	0 Ω	22K	†22K	†710 Ω

ALL MEASUREMENTS TAKEN IN "RECEIVE" POSITION UNLESS OTHERWISE INDICATED

† MEASURED FROM OUTPUT OF M1

▲ MEASURED IN "TRANSMIT" POSITION



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