

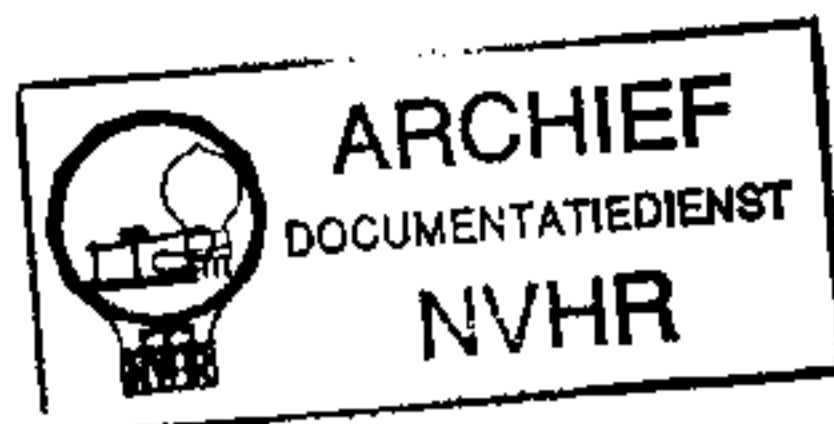
PHOTOFACT® Folder

with CIRCUITRACE®

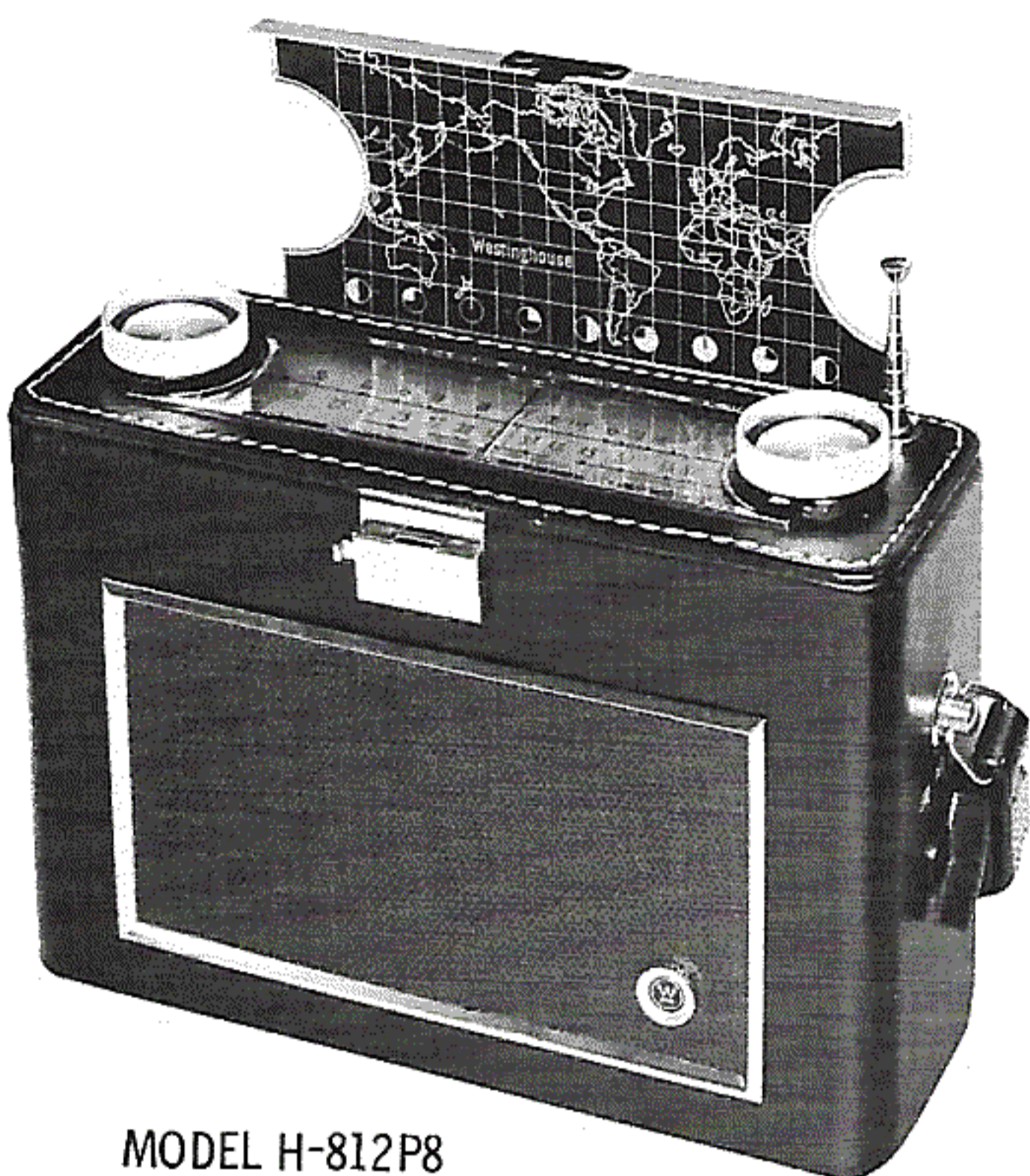
WESTINGHOUSE MODELS H-812P8,
H-866P8 (Ch. V-2422-1/-4)



Ned. Ver. v. Historie v/d Radio



Met dank aan Jef Bos

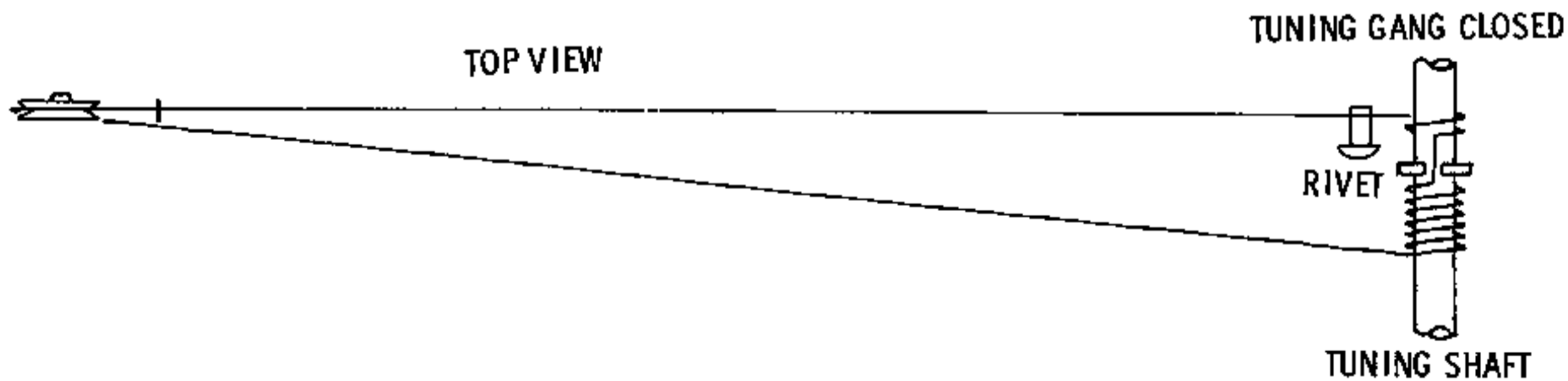


MODEL H-812P8

H-866P8 (Ch. V-2422-1/-4)

TRADE NAME	Westinghouse Models H-812P8 (Ch. V-2422-1), H-866P8 (Ch. V-2422-4)		
MANUFACTURER	Westinghouse Electric Corp., Radio - TV Div., Metuchen, N. J.		
TYPE SET	Battery Operated 9 Transistor, 3 Band Portable Receiver		
POWER SUPPLY	6 Volts DC	RATING	17MA @ 6 Volts DC (No Signal, Min. Volume) 22MA @ 6 Volts DC (Signal, Normal Volume)
TUNING RANGE — BROADCAST	530 — 1620KC		
	SHORT WAVE (MB) 1.95 — 5.8MC		
	SHORT WAVE (SW) 5.8 — 16.5MC		

DIAL CORD STRINGING

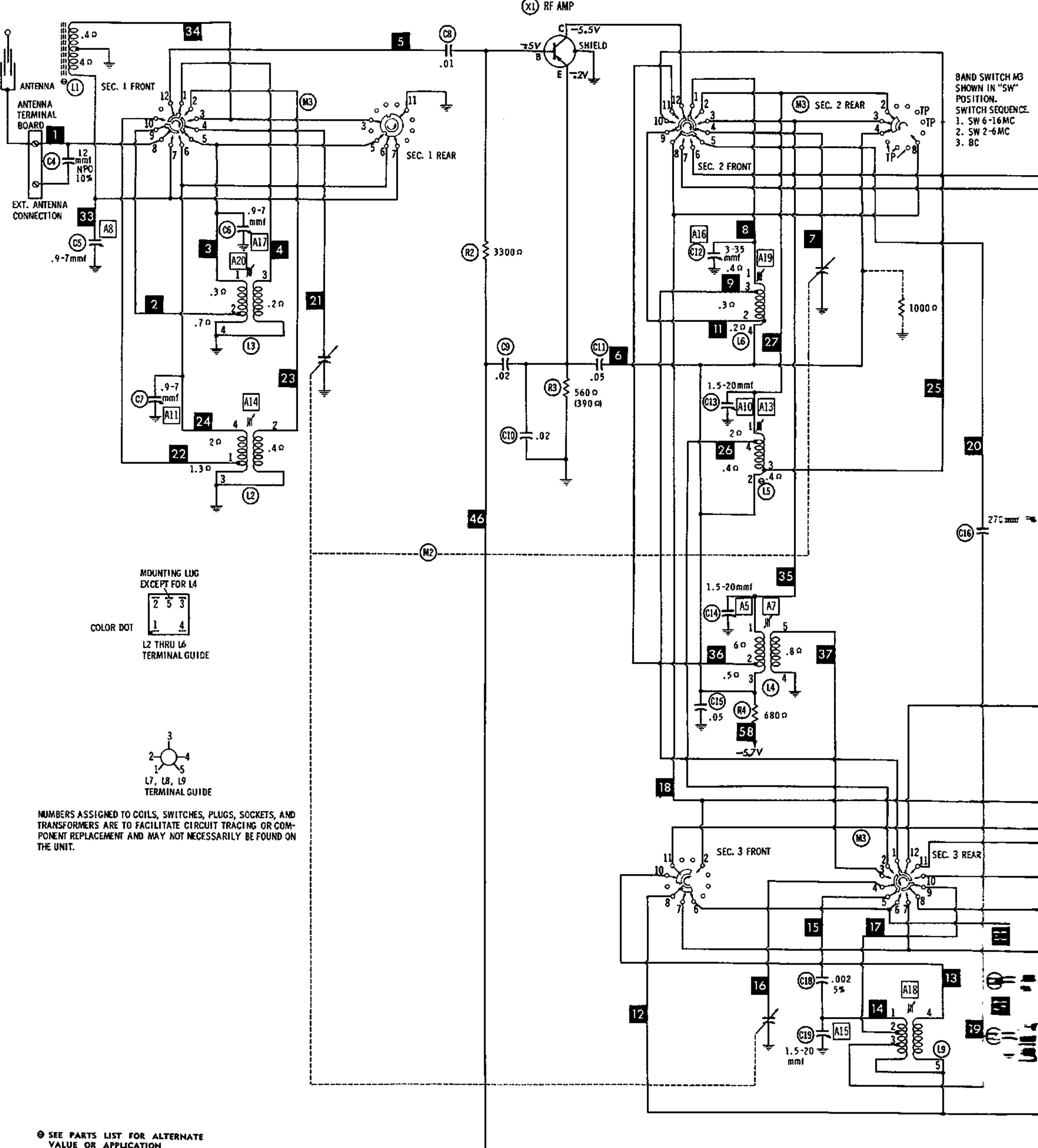


HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement LF837

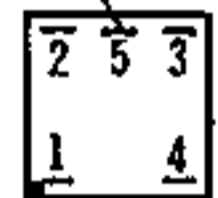
part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1963 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana.

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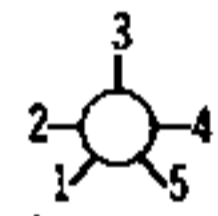
BAND SWITCH M3
SHOWN IN "SW"
POSITION.
SWITCH SEQUENCE
1. SW 6-16 MC
2. SW 2-6 MC
3. BC

MOUNTING LUG
EXCEPT FOR L4



COLOR DOT

L2 THRU L6
TERMINAL GUIDE



L7, L8, L9
TERMINAL GUIDE

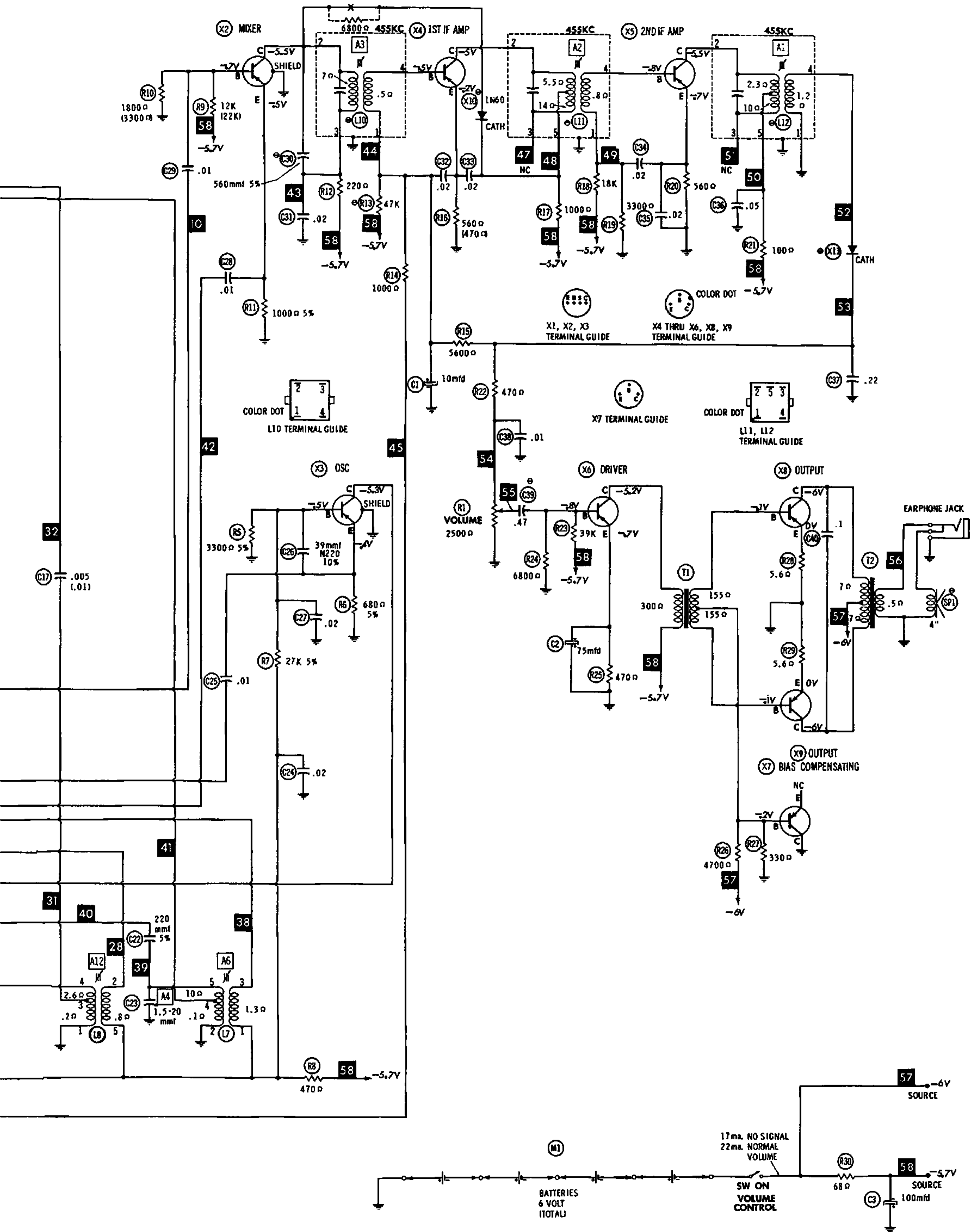
NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

⊕ SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

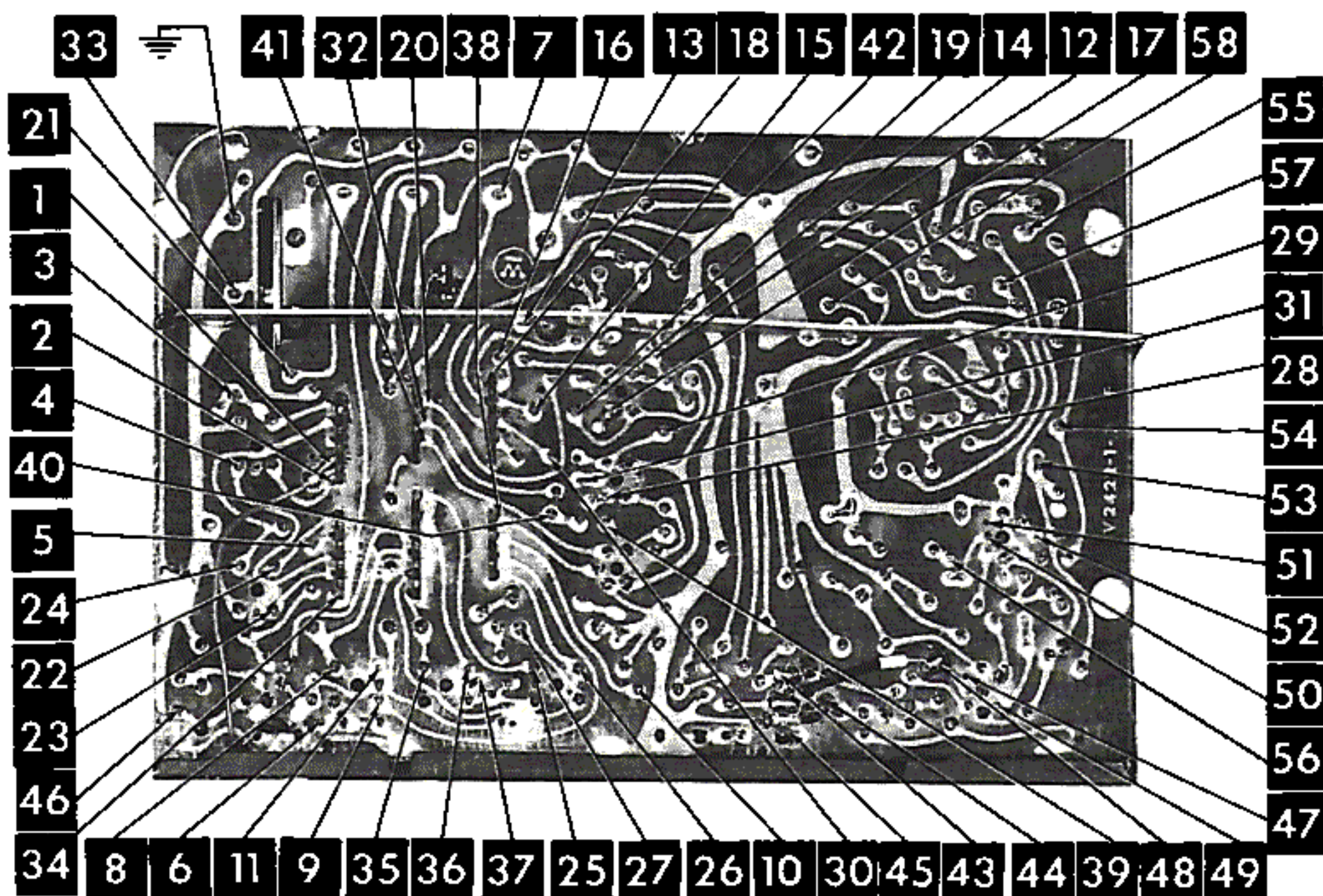
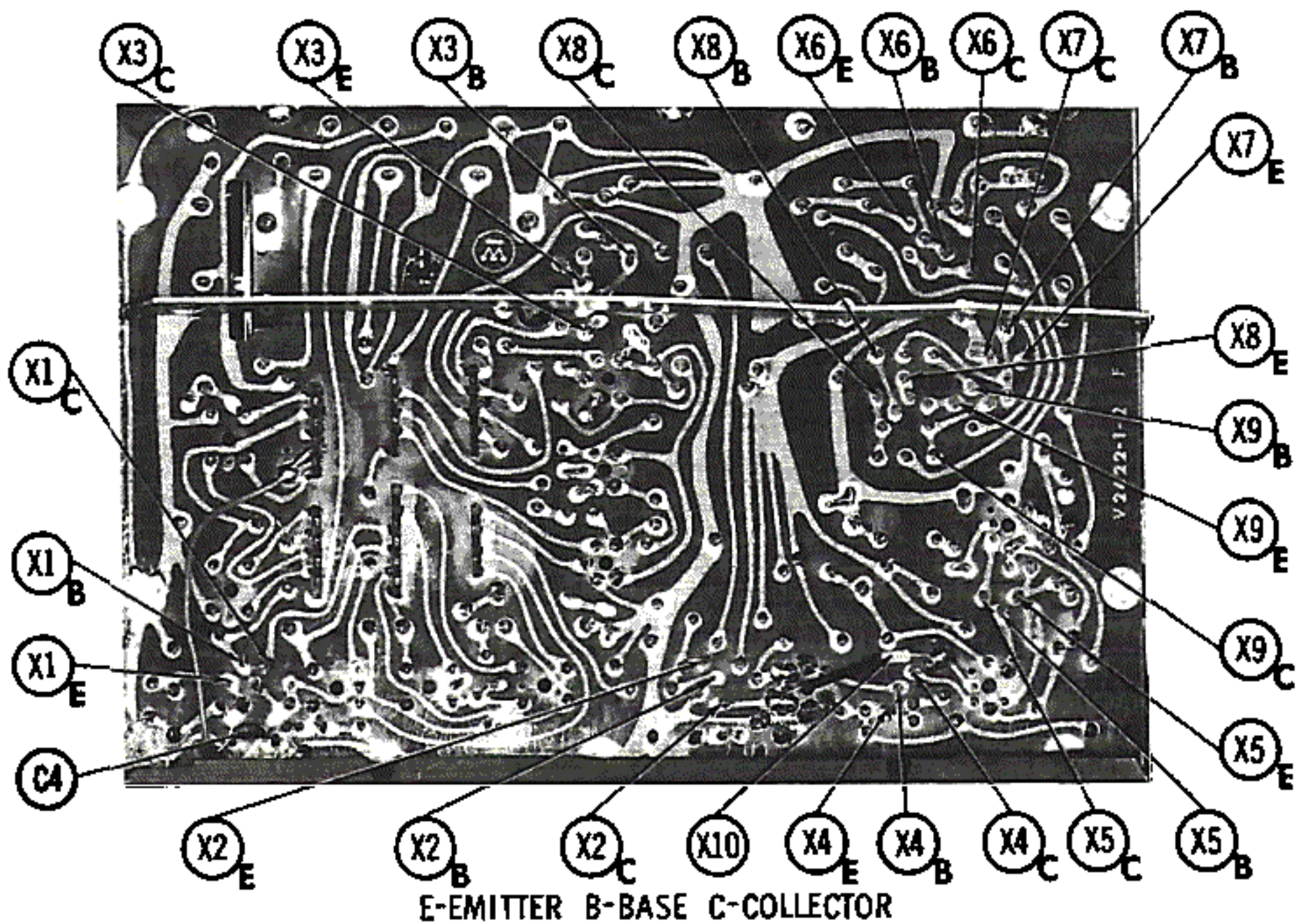
RESISTANCE MEASUREMENTS NOT GIVEN BECAUSE OF THE WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE.

1. DC voltage measurements taken with vacuum tube voltmeter.
2. Socket connections or transistor terminals are shown as bottom views.
3. Measured values are from socket pin or terminal to common ground.
4. Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.

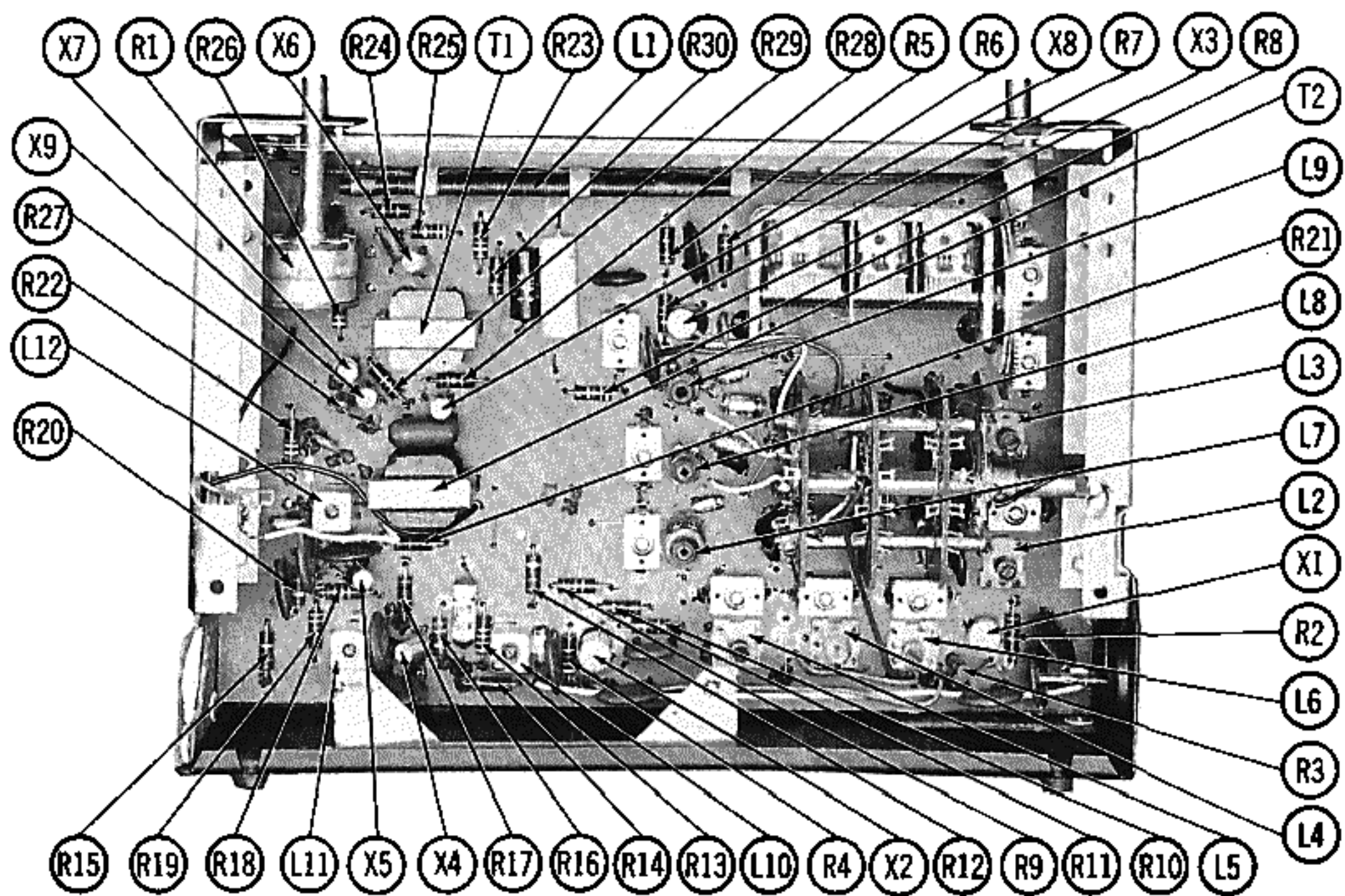
A PHOTOFACIT STANDARD NOTATION SCHEMATIC with CIRCUITRACE



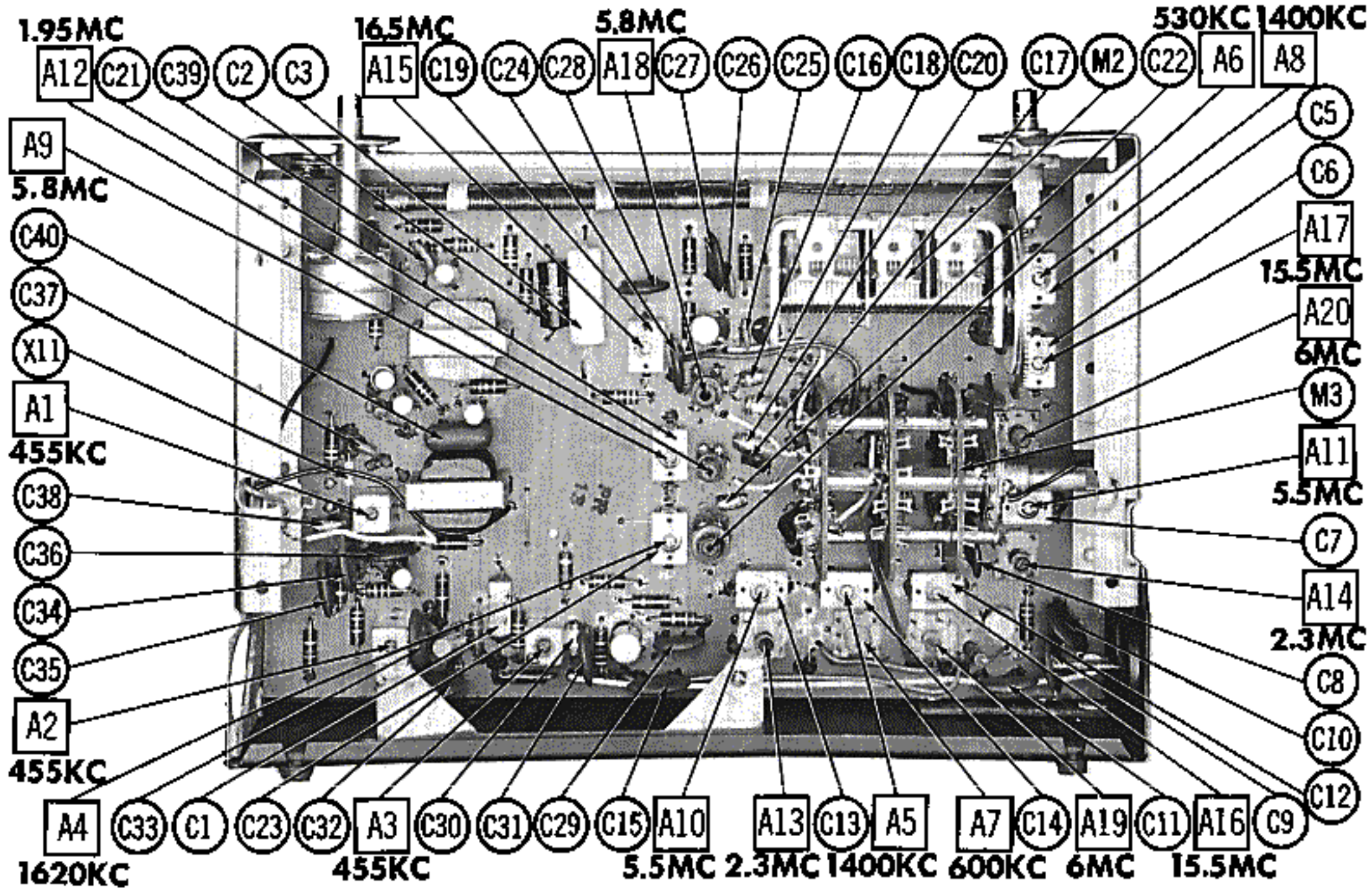
WESTINGHOUSE MODELS H-812P8, H-866P8 (Ch. V-2422-1/-4)



PRINTED BOARD



CHASSIS TOP VIEW-RESISTOR, INDUCTOR & TRANSISTOR IDENT.



CHASSIS TOP VIEW-ALIGNMENT, CAPACITOR & MISC IDENT.

PARTS LIST AND DESCRIPTION

TRANSISTORS

ITEM No.	MFR. PART. No.	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	297V036H01	RF Amp.	DS-25	GE-1	2N370	PNP
X2	297V035H01	Mixer	DS-25	GE-1	2N372	PNP
X3	297V034H01	Osc.	DS-25	GE-1	2N371	PNP
X4	297V012H10	1st IF Amp.	DS-25	GE-1	2N1524	PNP
X5	297V012H10	2nd IF Amp.	DS-25	GE-1	2N1524	PNP
X6	297V004H14	Driver	DS-26	GE-2	2N408	PNP
X7	297V037H01	Bias Compensating		GE-2	1N2326	PNP (Diode Connected)
X8	297V003H09	Output	DS-26	GE-2	2N408	PNP
X9	297V003H09	Output	DS-26	GE-2	2N408	PNP

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES	NOTES
			RCA PART No.	SARKES TARZIAN PART No.		
X10		296V002H01				Overload (1N60), Chassis V-2422-1
X11		296V002H07				Overload (1N60), Chassis V-2422-4
		296V002H01				Detector, Chassis V-2422-1
		296V002H07				Detector, Chassis V-2422-4

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	Westinghouse PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	10	10	218V048A01	PTT39	NLW10-15	MT1-5	TT12X10	MLV10-10	TE-1114
C2	75	3	218V012H17	CRE220	NLW75-3	MT1-18	TT6X80	MLV75-3	TE-1059
C3	100	7	218V012H15	PTT46	NLW100-12	MT1-19	TT12X100	MLV100-10	TE-1119.3

FIXED 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.
C4	12 NPO 10%		NPO-DI 12	TCZ-12	C10-Q12C	CCTO-120	CNO-412	10TCC-Q12
C5	.9-7	#217V508H01				400		
C6	.9-7	#217V508H01				400		
C7	.9-7	#217V508H01				400		
C8	.01		TTD-01	CK-103	H05S1	CCD-103	TA-110	TG-S10
C9	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C10	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C11	.05		TTD-05	CK-503	H05S5		GP-150	TG-S50
C12	3-35	#217V508H03				403		
C13	1.5-20	#217V508H02				402		
C14	1.5-20	#217V508H02				402		
C15	.05		TTD-05	CK-503	H05S5		GP-150	TG-S50
C16	270 5%		ADM-15 271	DTZ-270	C10T27U	CM-20B-271J	CNO-327	10TCC-T27
C17	.005	(.01) †	TTD-005	CK-502	H05D5	CCD-502	TA-250	TG-D50
C18	.002 5%		ADM-19-202		5R5D2	CM-20B-202J	MCE-457	MS-22
C19	1.5-20	#217V508H02				402		
C20	.001 5%		ADM-19-102		5R5D1	CM-20B-102J	MCE-255	MS-213

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.

Suggested Alignment Tools: A1, A2, A3, A5, thru A9,

All thru A14, A16 thru A20... GENERAL CEMENT #9089, 8988, 8987

WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538

A4, A10..... GENERAL CEMENT #9440

A15..... GENERAL CEMENT #8606, 8282, 9295

WALSCO #2528, 2543, 2544, 2545

SET SELECTOR SWITCH AS INDICATED

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .01mfd to base of X2; common to ground.	455KC (Unmod.)	(BC) Tuning gang fully open.	DC VTVM across volume control.	A1, A2, A3	Adjust for maximum deflection.
High side thru .01mfd to base of X1, common to ground.	1620KC	"	"	A4	"
"	1400KC	1400KC	"	A5	"
"	530KC	Tuning gang fully closed.	"	A6	"
"	600KC	600KC	"	A7	"
Fashion loop of several turns of wire and radiate signal into loop of receiver.	1400KC	1400KC	"	A8	"
High side thru .01mfd to base of X1, common to ground.	5.8MC (Unmod.)	(MB) Tuning gang fully open.	"	A9	Adjust for maximum output.
To rod antenna thru 15mmf.	5.5MC	5.5MC	"	A10, A11	"
"	1.95MC	Tuning gang fully closed.	"	A12	"
"	2.3MC	2.3MC	"	A13, A14	"
High side thru .01mfd to base of X1, common to ground.	16.5MC	(SW) Tuning gang fully open.	"	A15	"
"	15.5MC	15.5MC	"	A16, A17	"
To rod antenna thru 15mmf.	5.8MC	Tuning gang fully closed.	"	A18	"
"	6MC	6MC	"	A19, A20	"

PARTS LIST AND DES

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.
C21	1.5-20	#217V508H02				402		
C22	220 5%		ADM-15-221	DTZ-220	CI0T22U	CM-20B-221J	CNO-322	10TCC-T22
C23	1.5-20	#217V508H02				402		
C24	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C25	.01		TTD-01	CK-103	H05S1	CCD-103	TA-110	TG-S10
C26	39 10% N220	#215V013A90						10TCR-Q39
C27	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C28	.01		TTD-01	CK-103	H05S1	CCD-103	TA-110	TG-S10
C29	.01		TTD-01	CK-103	H05S1	CCD-103	TA-110	TG-S10
C30	580 5%	(1000) ♦	DDM-19-581	TCN-580	5R5T58	CM-20B-581J	MCE-247	MS-358
C31	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C32	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C33	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C34	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C35	.02		TTD-02	CK-203	H05S2	CCD-203	TA-120	TG-S20
C36	.05		TTD-05	CK-503	H05S5		GP-150	TG-S50
C37	.22	#215V309H07		UK-224				
C38	.01		TTD-01	CK-103	H05S1	CCD-103	TA-110	TG-S10
C39	.47	Note 1		UK-474				
C40	.1		TTD-1	CK-104	H05P1			TG-P10

Westinghouse Part Number

♦ Value used in Chassis V-2422-4.

† Alternate Value.

Note 1. Early versions of Chassis V-2422-1 use .1mfd.

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA					
			Westinghouse PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1	Volume & Switch	2500Ω	270V094H08	F2-2500, KR-1, SU204				RU262A, SL40, US42, SL3500

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 PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R2	3300Ω				R17	1000Ω			
R3	580Ω			(390Ω) †	R18	18K			
R4	680Ω				R19	3300Ω			
R5	3300Ω 5%				R20	580Ω			
R6	680Ω 5%				R21	100Ω			
R7	27K 5%				R22	470Ω			
R8	470Ω				R23	39K			
R9	12K			(22K) †	R24	6800Ω			
R10	1800Ω			(3300Ω) †	R25	470Ω			
R11	1000Ω 5%				R26	4700Ω			
R12	220Ω				R27	330Ω			
R13	47K			(58K) ♦	R28	5.6Ω			
R14	1000Ω				R29	5.6Ω			
R15	5600Ω				R30	68Ω			
R16	580Ω			(470Ω) †					

† Value used in early versions.

♦ Alternate Value in Chassis V-2422-1. 39K used in Chassis V-2422-4.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		Westinghouse PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	BC Loop	310V077H01 J					1. Part #310V085H01 used in Chassis V-2422-4 2. Part #235V098H01 used in Chassis V-2422-4
L2	M1 Ant. Coil	235V088H01					
L3	6V Ant. Coil	215V087H01					
L4	10 H1	215V083H01					

DESCRIPTION (CONTINUED)

COILS (RF-IF) (cont)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		Westinghouse PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L5	MB RF	235V086H02 ②					③ Part #235V097H01 used in Chassis V-2422-4 ④ Part #235V097H02 used in Chassis V-2422-4 ⑤ Part #235V097H03 used in Chassis V-2422-4
L6	SW RF	235V087H02					
L7	BC Osc.	230V105H01					
L8	MB Osc.	230V105H02					
L9	SW Osc.	230V104H01					
L10	1st IF	235V084H01 ③					
L11	2nd IF	235V084H02 ④					
L12	3rd IF	235V084H03 ⑤					

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			Westinghouse PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T1	1.3	1	430V054H01					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			Westinghouse PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
	PRI.	SEC.						
T2	350Ω CT	3-4Ω	430V098H01					

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				Westinghouse PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	4"	PM	3-4Ω	570V059H01	4A07	Model H-812P8 Model H-866P8
	3"x5"	PM	3-4Ω	778V300H01		

BATTERIES

ITEM No.	VOLTAGE	Westinghouse PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M1	1½V		130	635	M14-R	4 Used

MISCELLANEOUS

ITEM No.	PART NAME	Westinghouse PART No.	NOTES
M2 M3	Tuning Cap. Switch	330V045H01 756V073H01	3 Gang Band

CABINETS & CABINET PARTS

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

NAME	PART NO	DESCRIPTION
Dial Pointer	558V232H03	Model H-812P8
Dial Pointer	558V232H04	Model H-866P8
Knob	550V207H01	Volume, Tuning
Knob	550V115H01	Selector
Knob	550V230H02	Azimuth Model H-866P8
Cabinet	513V109H03	Model H-812P8
Cabinet	513V120H04	Model H-866P8

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No.	8530 (Solid 22AWG)	Available
		8524 (Stranded 22AWG)	in
		8570 (Stranded 26AWG)	12 Colors