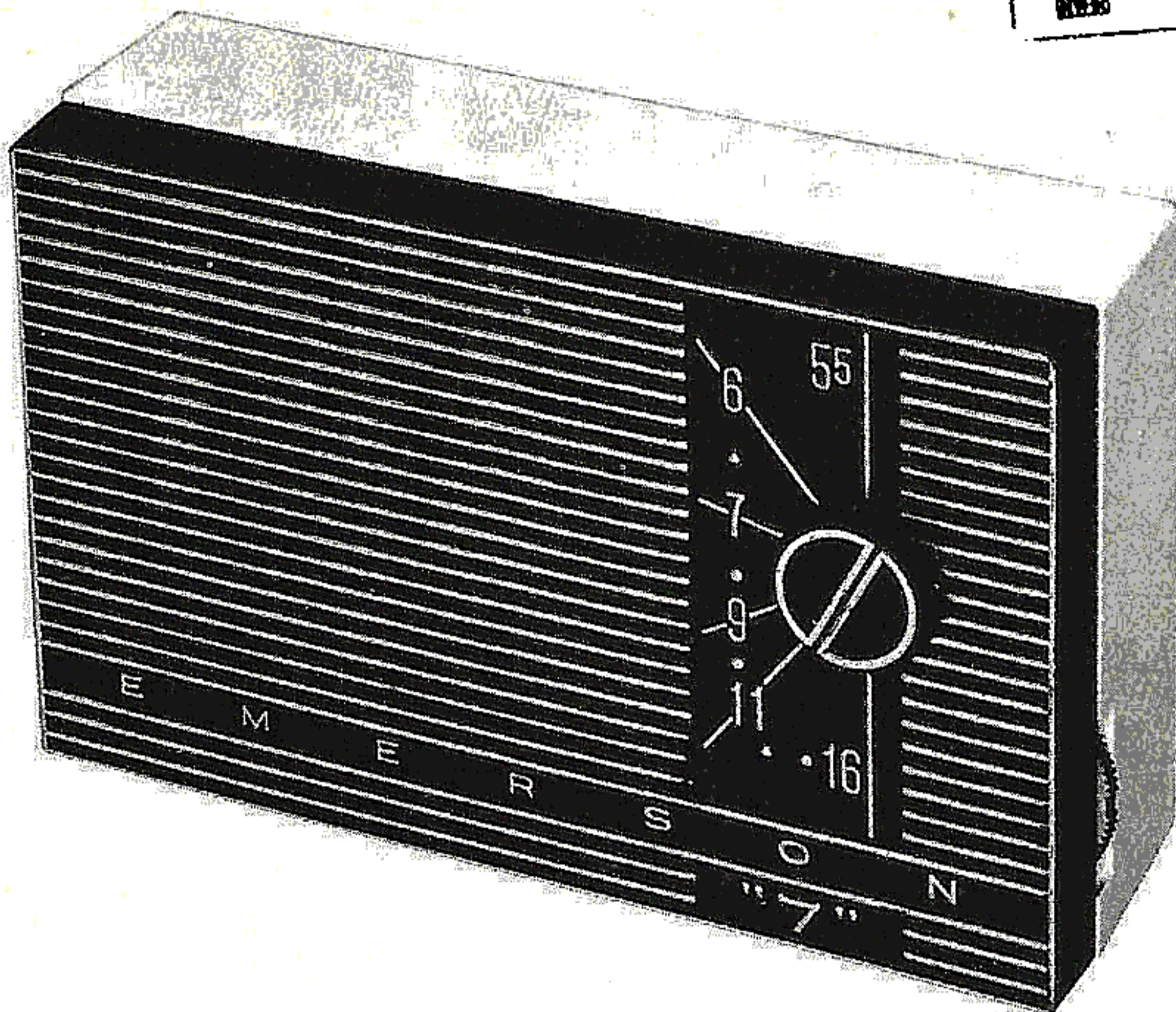
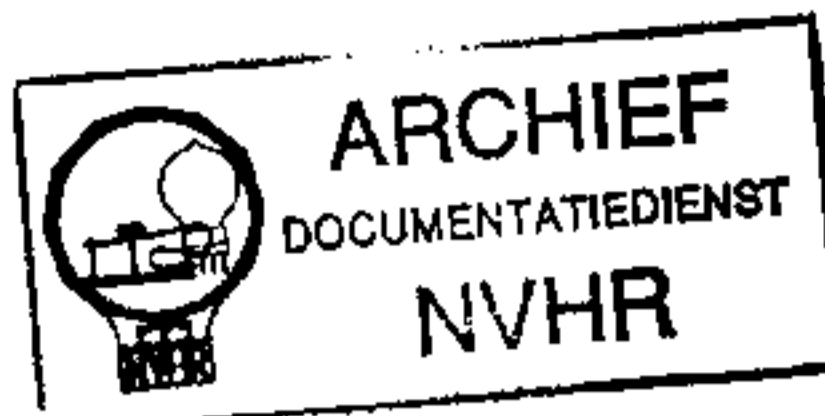




Met dank aan Jef Bos

Ned. Ver. v. Historie v/d Radio



TRADE NAME	Emerson Model 977 (Falcon) Ch. 120528		
MANUFACTURER	Emerson Radio & Phono Corp., 524 W. 23rd Street, New York 11, N. Y.		
TYPE SET	Battery Operated Transistorized Portable AM Receiver		
POWER SUPPLY	6 Volts DC	RATING	11MA@6 Volts DC (No Signal, Min. Volume)
TUNING RANGE—BROADCAST	540 -- 1620KC		15MA@6 Volts DC (Signal, Normal Volume)

## ALIGNMENT INSTRUCTIONS

### ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.

Suggested Alignment Tools: A3.....GENERAL CEMENT #5009, 8195, 8274, 8275, 8278, 8279, 8987, 8988, 8989  
 WALSCO #2515, 2531, 2532  
 A4, A6.....GENERAL CEMENT #5004, 5008, 5009  
 WALSCO #2520  
 A5.....GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440  
 WALSCO #2526, 2543, 2544, 2545

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	High side thru .1mfd to antenna stator lug of tuning gang. Low side to chassis.	455KC (400% Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2, A3	Adjust for maximum output.
2.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	1640KC	Tuning gang fully open.	"	A4	"
3.	"	600KC	600KC	"	A5	"
4.	"	1400KC	1400KC	"	A6	Adjust for maximum output. Repeat Steps 2, 3 and 4.

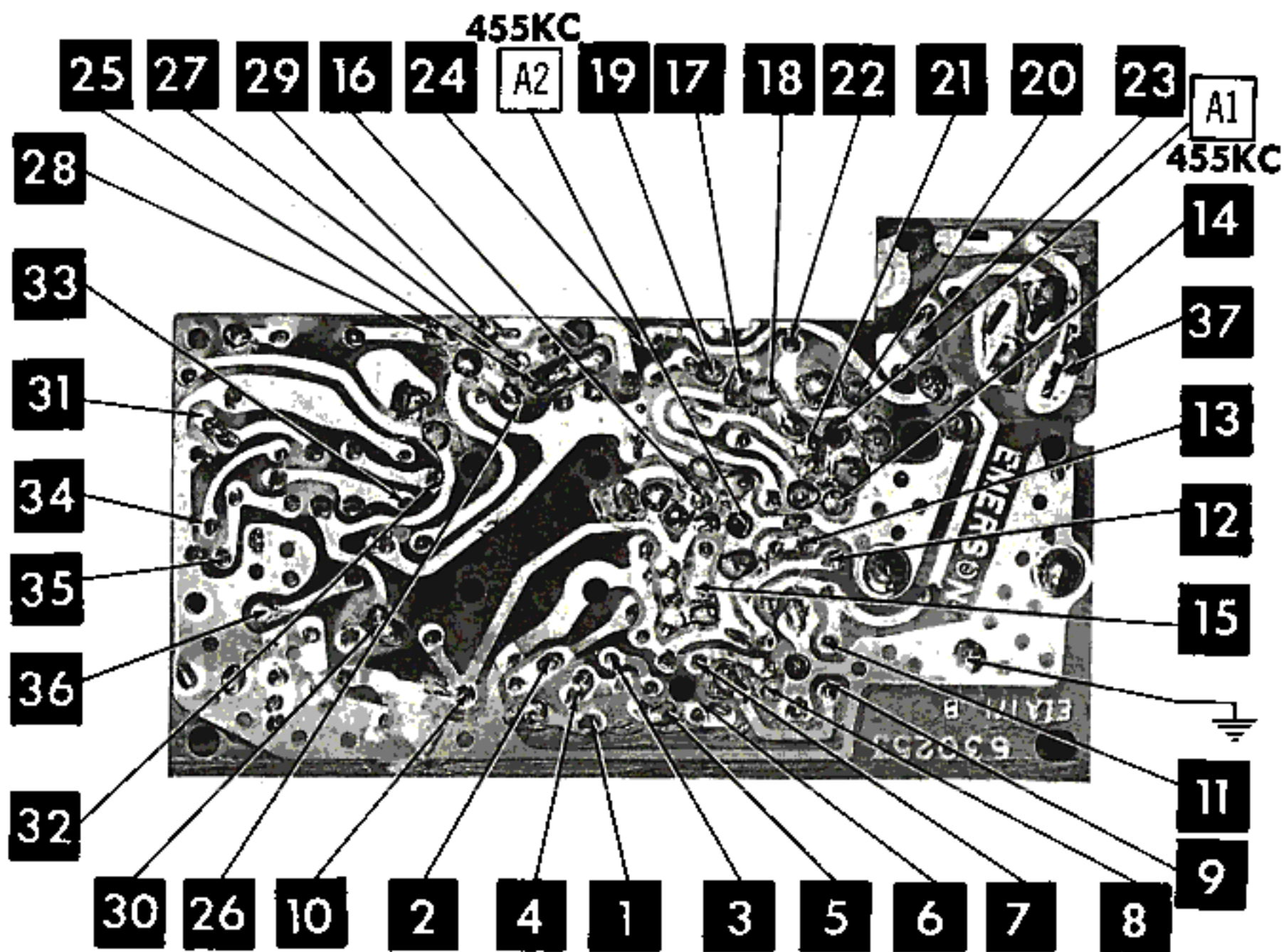
### HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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 KF757

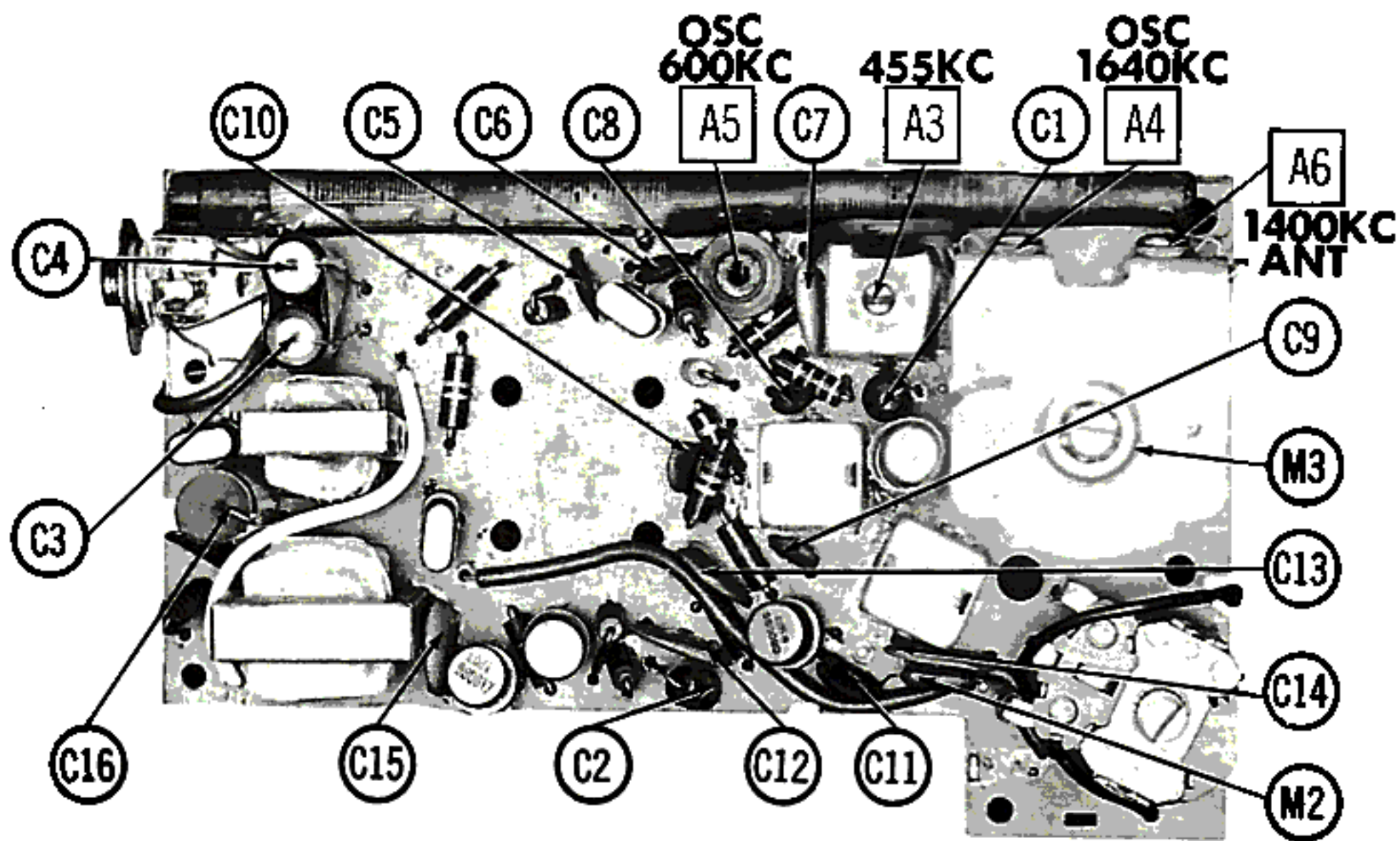
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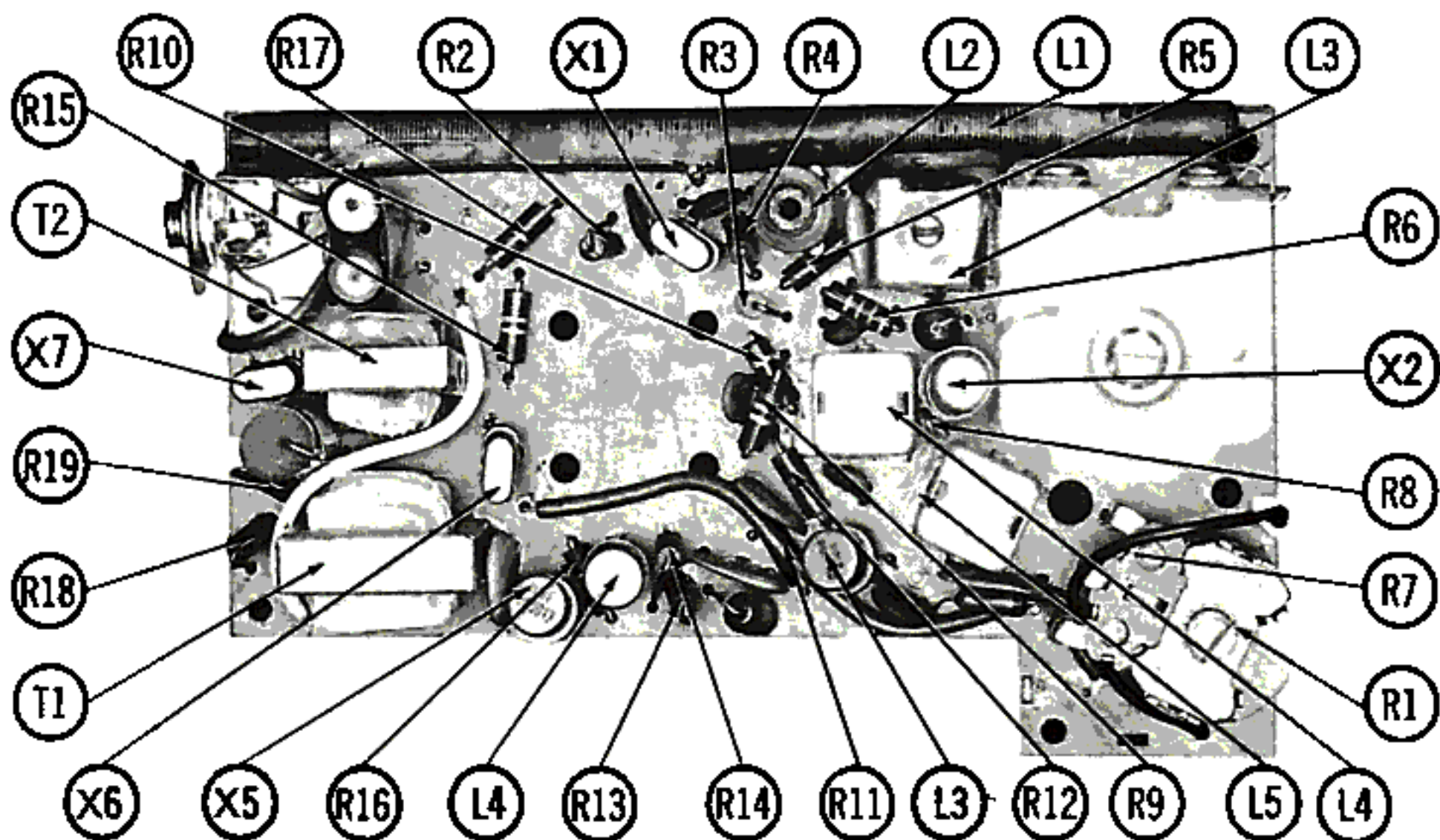








CHASSIS TOP VIEW-ALIGN., CAPACITOR & MISC. IDENT.



CHASSIS TOP VIEW-RESISTOR, INDUCTOR & TRANSISTOR IDENT.

## TRANSISTORS

ITEM No.	MFGR'S PART NO.	USE	REPLACEMENT DATA		NOTES
			RCA PART No.	RAYTHEON PART No.	
X1	815077	Converter			PNP
X2	815078	1st IF Amplifier			PNP
X3	815079	2nd IF Amplifier			PNP
X4	815080	AF Amplifier			PNP
X5	815081	Driver			PNP
X6	815082	Output			PNP
X7	815082	Output			PNP

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	EMERSON 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	Note 1	PTT39	NLW10-15	MT1-5	TT12X10	MLV10-10	TE-III4
C2	10	10	Note 2	PTT39	NLW10-15	MT1-5	TT12X10	MLV10-10	TE-III4
C3	50	10	Note 3	PTT45	NLW50-10	MT1-16	TT10X50	MLV50-10	TE-III9
C4	50	10	Note 4	PTT45	NLW50-10	MT1-16	TT10X50	MLV50-10	TE-III9

Note 1. Some versions may use 3V unit in this application (Part #925464).

Note 2. Some versions may use 3V unit in this application (Part #925486).

Note 3. C3 and C4 may be a 2 section unit in some versions (Part #925516 or 925468).

## FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic 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.
C5	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C6	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C7	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C8	2 NPO 5%		NPO-DI 2.0	DTN-2R2	C10V2C	CCTO-2R2	CNO-522	10TCC-V22
C9	.05		BPD-05	DD-503	H-05S5		TA-150	TG-S50
C10	.05		BPD-05	DD-503	H-05S5		TA-150	TG-S50
C11	27 NPO 5%			TCZ-27	C10Q27C	CCTO-270	CNO-427	10TCC-Q27
C12	.05		BPD-05	DD-503	H-05S5		TA-150	TG-S50
C13	.02		BPD-02	DD-203	BYB6S2	CCD-203	TA-120	5HK-S20
C14	.05		BPD-05	DD-503	H-05S5		TA-150	TG-S50
C15	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C16	.22 50V		V84C2P22		DPMS2P22	1DP-3-224	GEM-2022	2TM-P22

# DESCRIPTIONS

## CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	EMERSON PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
RIA B	2500Ω Switch	$\frac{1}{2}$	390581 ①					Volume Power Off-On

① Alternate Part #390584.

## 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
R2	8200Ω				R11	220Ω			
R3	39K				R12	220Ω			
R4	2700Ω				R13	10K			
R5	220Ω				R14	270Ω			
R6	68K				R15	15K			
R7	4700Ω			(2700Ω) *	R16	220Ω			
R8	220Ω				R17	150Ω			
R9	27K				R18	3300Ω			
R10	2700Ω				R19	100Ω			

\* Alternate Value.

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		EMERSON PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	Loopstick	700165					
L2	Osc.	716137					
L3	1st IF	720368					
L4	2nd IF	720369					
L5	3rd IF	720376					

## TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
	PRI.	SEC.	EMERSON PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	1.7	1	734197					

# PARTS LIST AND DESC

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			EMERSON PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
	PRI.	SEC.						
T2	700Ω CT	3-4Ω	734198		TA-25			

## SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				EMERSON PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	3"	PM	3-4Ω	180235		

## BATTERIES

ITEM No.	VOLTAGE	EMERSON PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	1.5V			930		1015		M-15R	4 Required

## SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		EMERSON PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
M2	1N295	817069		1N295	Detector (Pigtail)

## MISCELLANEOUS

ITEM No.	PART NAME	EMERSON PART No.	NOTES
M3	Tuning Cap.	900202	2 Gang

# DESCRIPTIONS (Continued)

## CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Knob	461313	Tuning, Ivory
Knob	461313A	Tuning, Ebony
Knob	461072	Volume
Cabinet Front	141147	Ivory
Cabinet Front	141147A	Ebony
Cabinet Back	141148	Ivory
Cabinet Back	141148A	Ebony

## WIRING DATA

General-use Unshielded Hook-up Wire ..... Use BELDEN No. 8530 (Solid) Available in Ten Colors  
8524 (Stranded) Available in Ten Colors