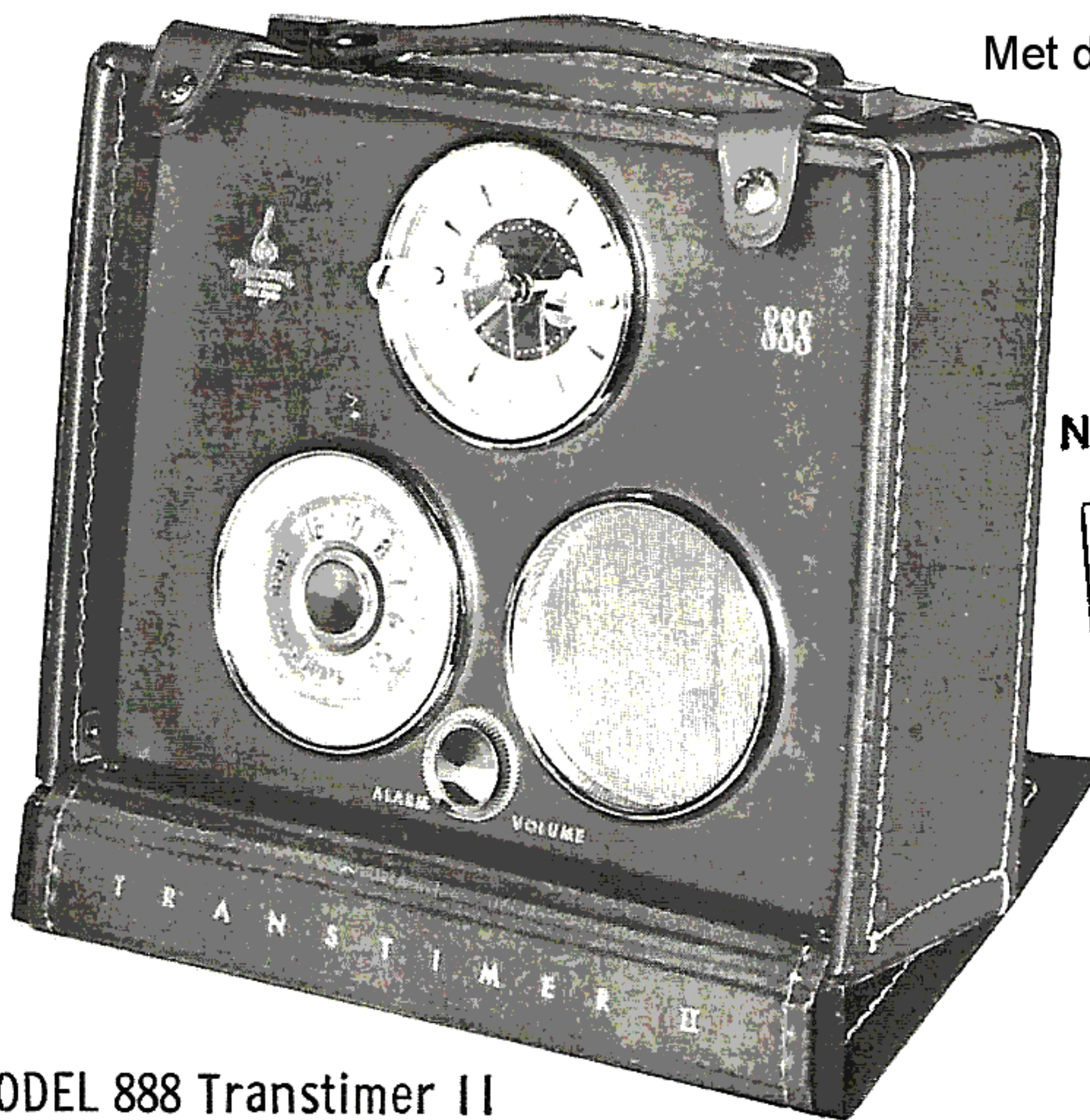
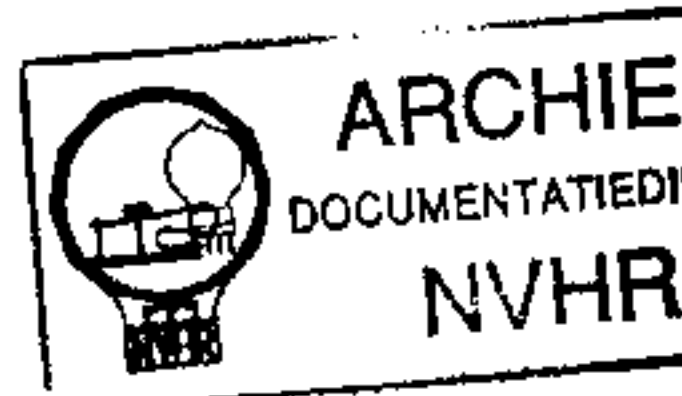




Met dank aan Jef Bos



Ned. Ver. v. Histor



EMERSON MODELS 888 Transtimer, 888 Transtimer II (Ch. 120416, 120472)

MODEL 888 Transtimer II

TRADE NAME	Emerson Models 888 Transtimer (Ch. 120416), 888 Transtimer II (Ch. 120472)		
MANUFACTURER	Emerson Radio & Phono Corp., 524 W. 23rd Street, New York II, N. Y.		
TYPE SET	Battery Operated Transistorized Portable AM Receiver With Clock		
POWER SUPPLY	6 Volts DC (Radio)	RATING	8MA @ 6 Volts DC (No Signal, Min. Volume)
	1.5 Volts DC (Clock)		15MA @ 6 Volts DC (Signal, Normal Volume)
TUNING RANGE—BROADCAST	540 — 1650KC		

## 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.

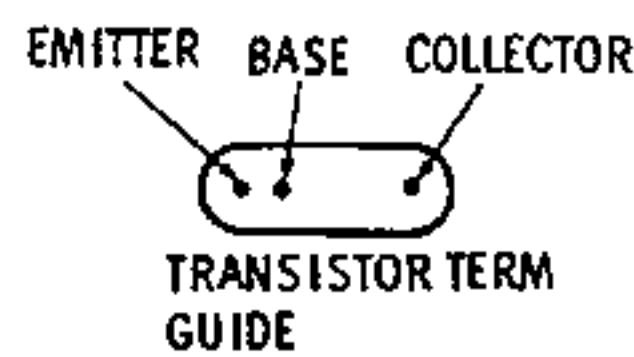
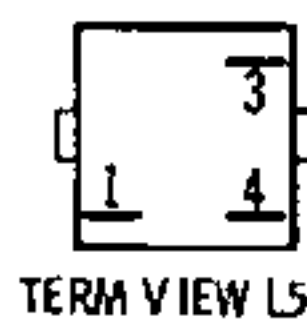
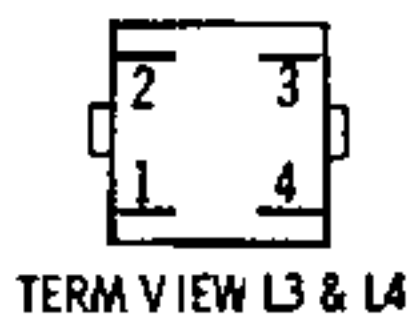
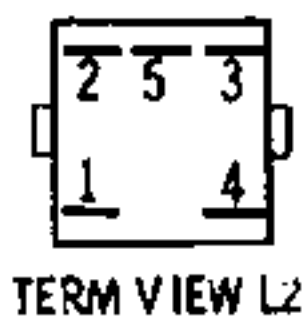
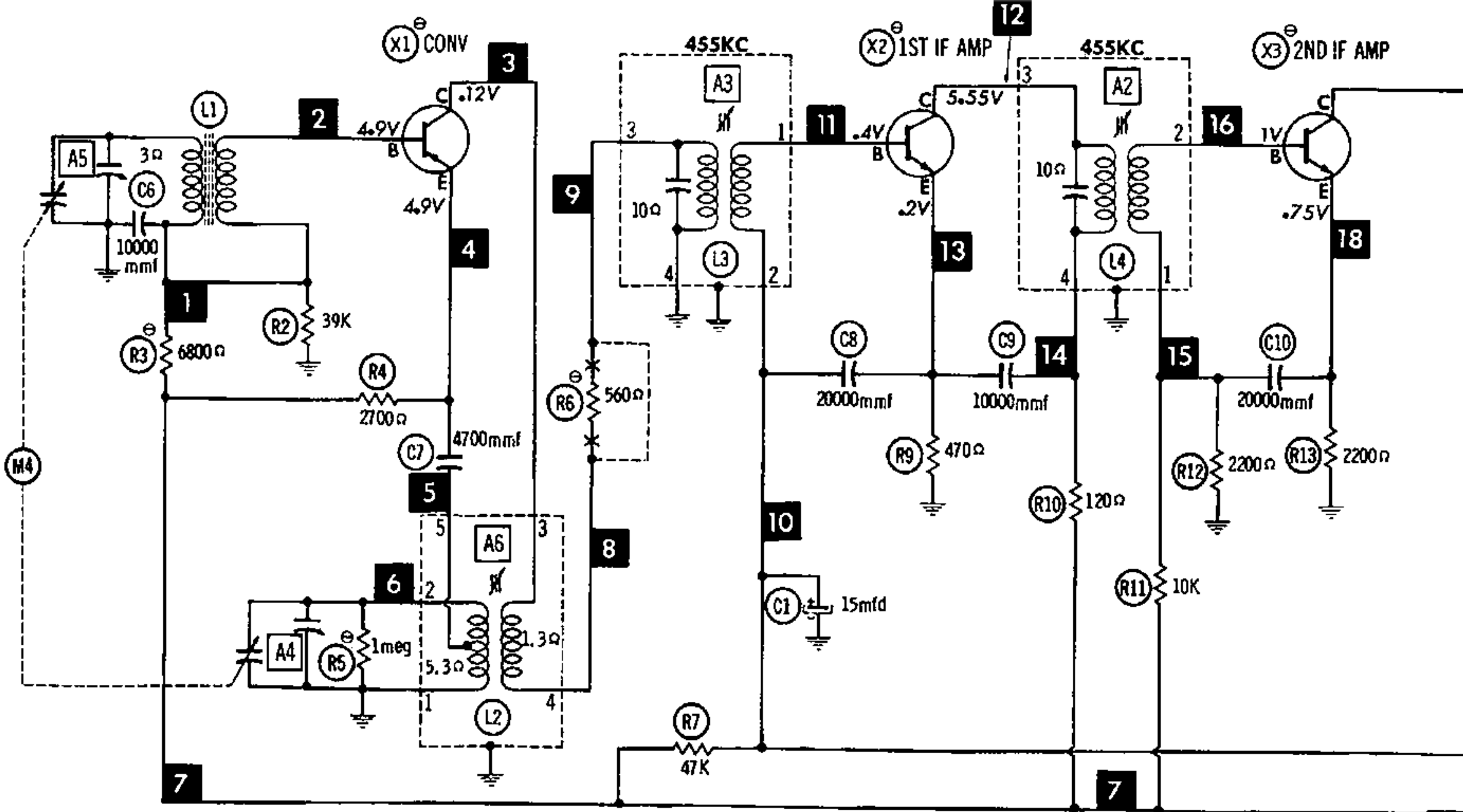
Suggested Alignment Tools: A1, A2, A3, A6... GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8729, 8987, 8988, 8989  
 WALSCO #2515, 2531, 2532  
 A4, A5..... GENERAL CEMENT #5004, 5008, 5009  
 WALSCO #2520

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	High side thru . lmf to antenna stator lug of tuning gang. Low side to chassis.	455KC (400v Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2, A3	Adjust for maximum output.
2.	Loop	1650KC	"	"	A4	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
3.	"	1400KC	1400KC Signal.	"	A5	"
4.	"	600KC	600KC	"	A6	Adjust for maximum output while rocking tuning gang. Repeat Steps 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 KF040

the particular type of replacement 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. © 1960 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America



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.

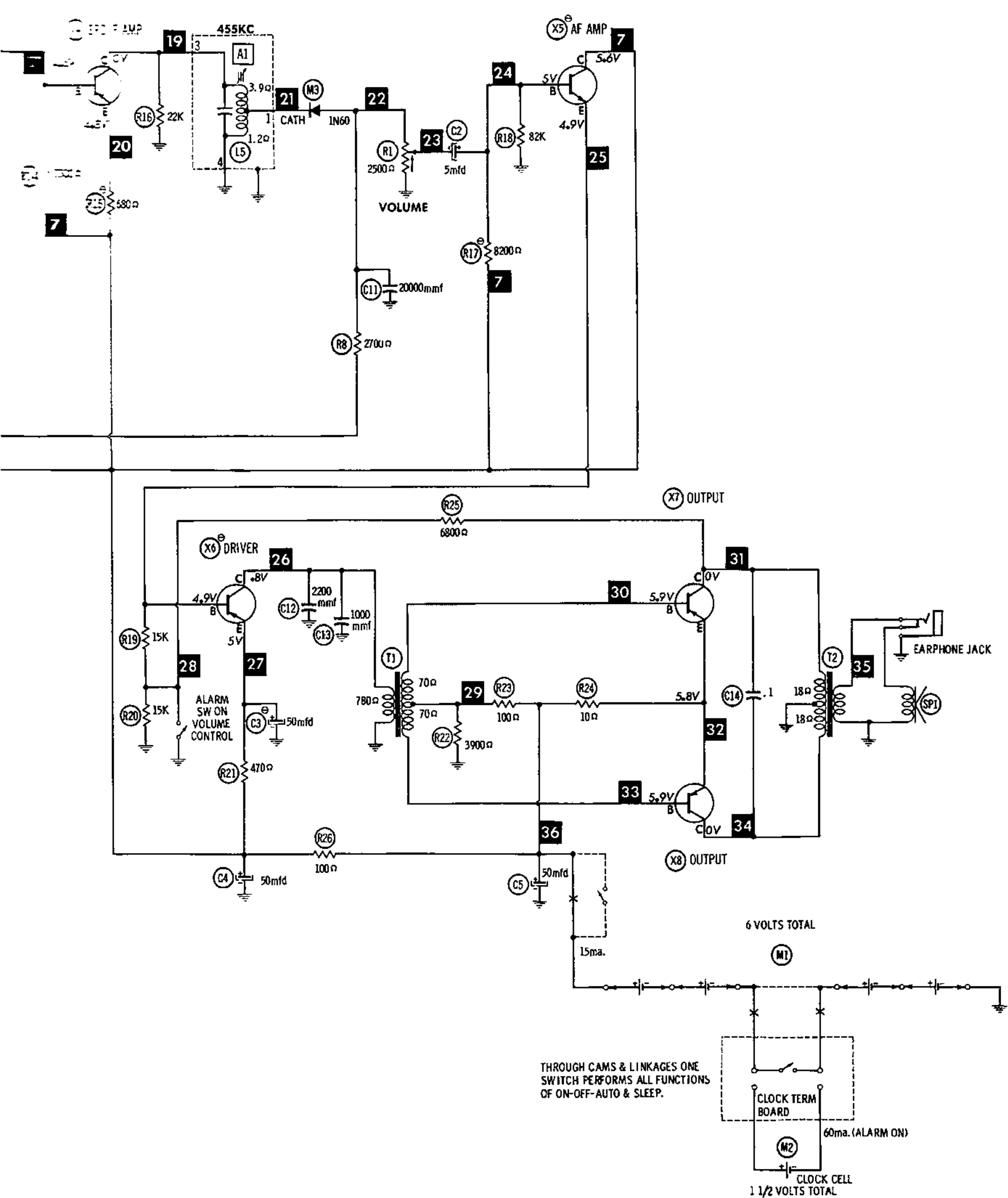
⊙ SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

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

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

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.
5. Volume control at maximum, no signal applied for voltage measurements.

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



EMERSON MODELS 888 Transtimer, 888 Transtimer II (Ch. 120416, 120472)

## RADIO

1. Open front flap.
2. Remove screw holding tuning knob. Remove knob.
3. Remove Phillips screw from left of tuning shaft.
4. Remove volume control knob.
5. Remove 2 screws from rear flap. Open flap.
6. Remove 2 hex nuts. Remove chassis.

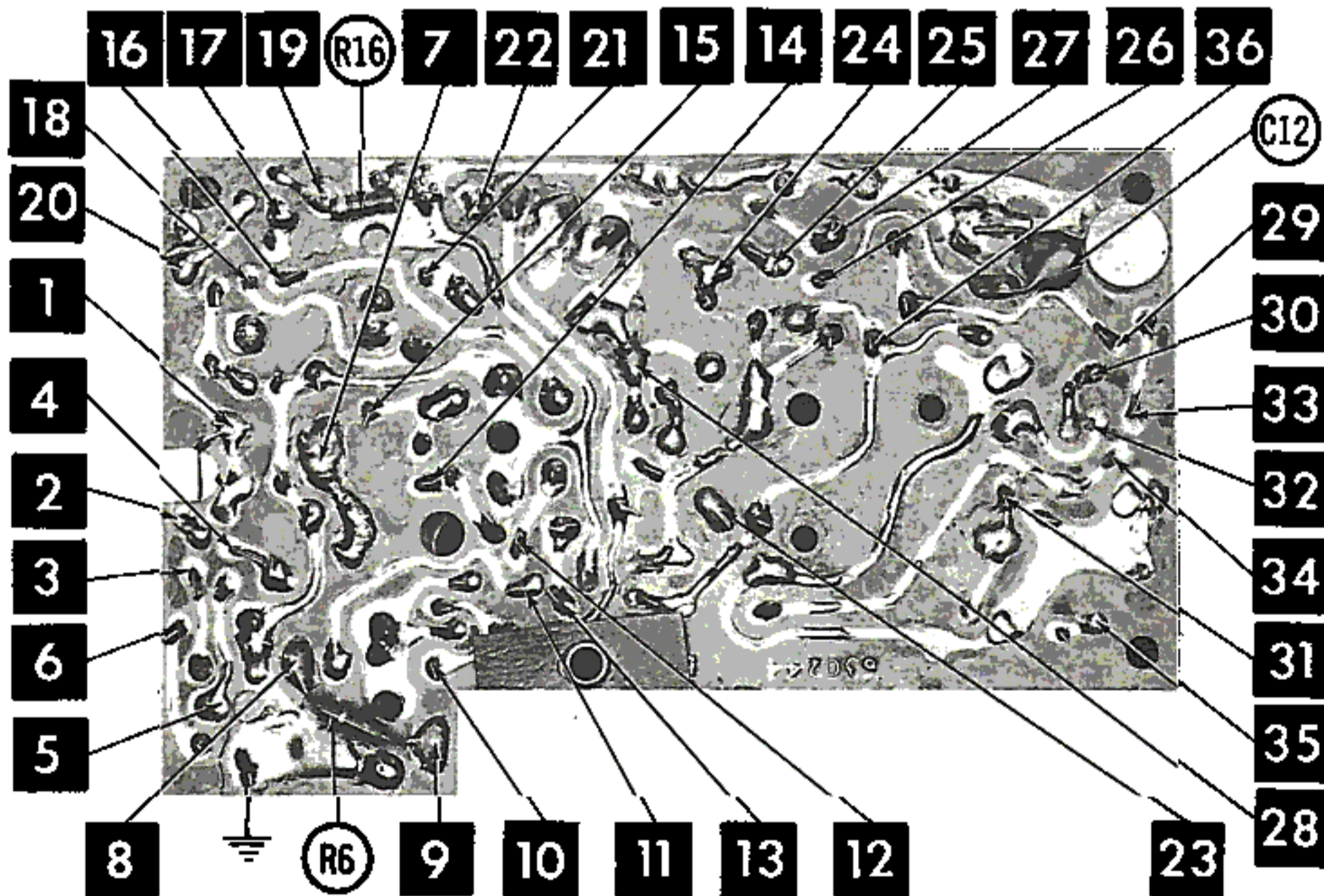
D  
I  
S  
A  
S  
S  
E  
M  
B  
L  
Y

### CLOCK (Chassis 120416)

1. Remove clock battery.
2. Unsolder 2 leads from battery clip terminals.
3. Remove speednut from stud.
4. Remove clock. (Push gently toward front of case.)
5. To remove crystal, press down on back edges of bezel. Remove bezel and crystal.

### CLOCK (Chassis 120472)

1. Remove receiver chassis.
2. Remove 2 Tinnerman nuts holding face and bezel.
3. Remove 4 palnuts holding clock to cabinet.
4. Remove clock.



## TRANSISTORS

ITEM No.	MFGR. PART NO.	USE	REPLACEMENT DATA			NOTES
			RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
X1	815025A ①	Converter		2N486		PNP
X2	815045D ②	1st IF Amplifier		2N1367		NPN
X3	815045D ③	2nd IF Amplifier		2N1367		NPN
X4	815027	3rd IF Amplifier		2N482		PNP
X5	815029 ④	AF Amplifier	2N649	2N363		NPN
X6	815034 ⑤	Driver	2N408	2N363		PNP
X7	815030	Output	2N408	2N633		PNP
X8	815030	Output	2N408	2N633		PNP } Matched Pair

① Emerson Part #815025 may be used in this application.

② Emerson Part #815045, C; 815026, A, B, C, D, F may be used in this application.

③ Emerson Part #815045, B, E; 815026, A, B, D, E, F may be used in this application.

④ Emerson Part #815034, 815032, 815033, 815035, 815031, 815028 may be used in this application.

⑤ Emerson Part #815029 may be used in this application.

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	EMERSON PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	
C1	15	3	925419	PTT-3015	NLW15-6	TT6X15	ML15-25	TE-1053.5	
C2	5	10	925420	PTT-10005	NLW5-15	TT12X5	ML5-15	TE-1127	
C3	50	10	925422	XPP-10050	NLW50-10	TT10X50	ML50-15	TE-1119	①
C4	50	10	925422	XPP-10050	NLW50-10	TT10X50	ML50-15	TE-1119	
C5	50	10	925422	XPP-10050	NLW50-10	TT10X50	ML50-15	TE-1119	

① Some versions may use 45mfd in this application (Part #925421).

## 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.
C6	10000		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C7	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C8	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C9	10000		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C10	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C11	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C12	2200		BPD-0022	DD-222	BYA10D2	CCD-222	B-222	5HK-D22
C13	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C14	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10

# 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.	
R1A B	2500Ω Switch	$\frac{1}{2}$	390494					Volume Alarm Switch

## RESISTORS (IRC or EQUIVALENT)

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R2	39K	Note 1	R11	10K	Note 3 Note 4	R20	15K	
R3	6800Ω		R12	2200Ω		R21	470Ω	
R4	2700Ω		R13	2200Ω		R22	3900Ω	
R5	1meg	R14	3300Ω	R23		100Ω		
R6	560Ω	R15	680Ω	R24		10Ω		
R7	47K	R16	22K	R25		6800Ω		
R8	2700Ω	R17	8200Ω	R26		100Ω		
R9	470Ω	R18	82K					
R10	120Ω	R19	15K					

Note 1. R3 is 8200Ω when X1 is Part #815025.

Note 2. R5 is 680K when X1 is Part #815025, and R6 is omitted.

Note 3. R15 is 330Ω when X2 & X3 are Part #815026C.

Note 4. R17 is 4700Ω when X5 is Part #815032.

R17 is 6800Ω when X5 is Part #815033.

R17 is 10K when X5 is Part #815035.

Note 5. Not used in some versions.

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		EMERSON PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	
L1	Loopstick	700139				
L2	Osc. Coil	716118				
L3	1st IF Trans.	720302				
L4	2nd IF Trans.	720302				
L5	3rd IF Trans.	720303				

## 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	2.2	1	734157				T-51X①	① Use Original Mounting Frame.

# PARTS LIST AND DESCRIPTIONS (Continued)

## 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	240Ω CT	3-4Ω	734158				TY-57X ①	① Use Original Mounting Frame

## SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				EMERSON PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	3½"	PM	3-4Ω	180175		

## BATTERIES

ITEM No.	VOLTAGE	EMERSON PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	1½V			130 *		635 *		M-14R*	* 4 Required (Radio)
M2	1½V					E9 †		ZM-9 †	† 1 Required, Mercury (Clock)

## CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		EMERSON PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M3	1N60	817069	1N60	1N60	Detector

## MISCELLANEOUS

ITEM No.	PART NAME	EMERSON PART No.	NOTES
M4 M5	Tuning Cap. Clock Clock Printed Board	900172 471163 471088 630225	2 Gang Model 888II, Ch. 120472 (Include Switch) Model 888, Ch. 120416 (Include Switch) Less All Components.

## CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Knob	461026	Tuning
Knob	461148	Volume (Transtimer II)
Knob	461031	Volume (Transtimer)
Knob	461136	Clock
Crystal	520281	Clock (Transtimer II)
Crystal	962322	Clock (Transtimer)
Cabinet	141022	Leather, Black (Transtimer II)
Cabinet	141022A	Leather, Tan (Transtimer II)

## WIRING DATA

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

**CHASSIS—TOP VIEW**

