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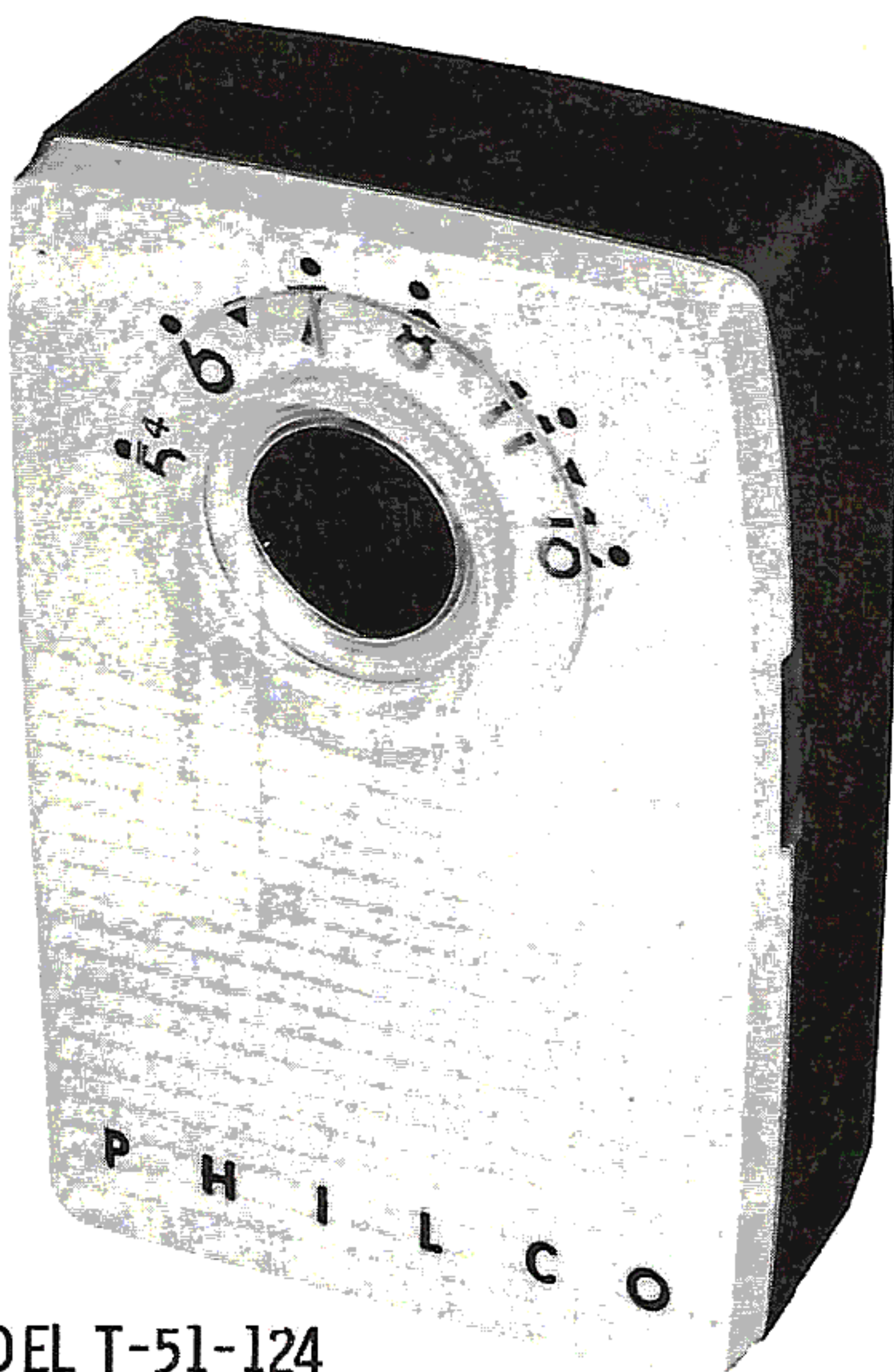
PHILCO
MODEL T-50-126, T-51-124



Met dank aan Jef Bos

Ver. v. Historie v/d Radio

ARCHIEF
DOCUMENTATIEDIENST
NVHR



MODEL T-51-124

TRADE NAME	Philco Models T-50-126, T-51-124		
MANUFACTURER	Philco Corp., Tioga & C Streets, Philadelphia, Pa.		
TYPE SET	Battery Operated Transistorized Portable AM Receiver		
POWER SUPPLY	5.2 Volts	RATING	9MA @ 5.2 Volts DC (No Signal, Min. Volume)
TUNING RANGE—BROADCAST	535 — 1620KC		16MA @ 5.2 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:

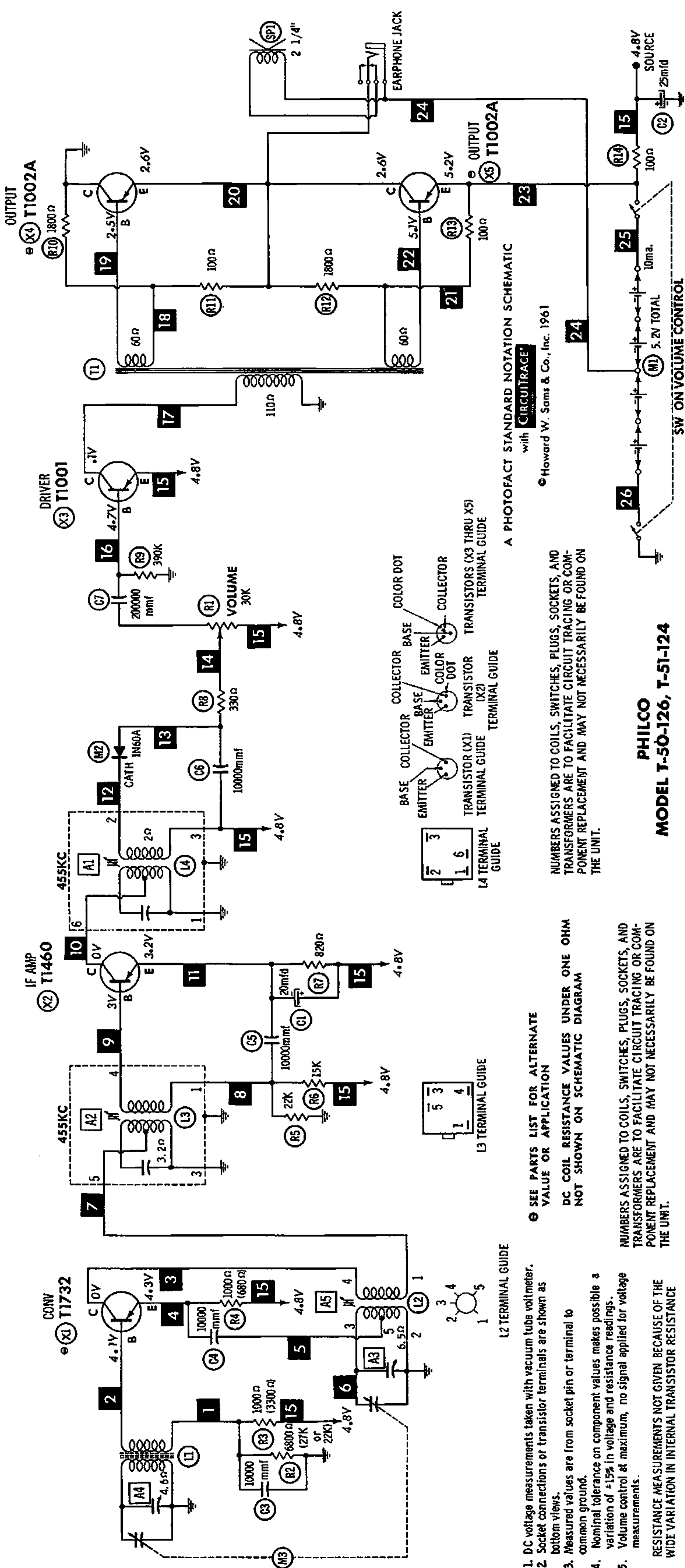
A1, A2...	GENERAL CEMENT #8607, 9291, 9294 WALSCO #2520, 2522, 2523, 2524, 2534, 2537
A3, A4...	GENERAL CEMENT #5004, 5009, 8195, 8274, 8275, 8607, 8728, 8987, 8988, 8989, 9291 WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538
A5.....	GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440 WALSCO #2526, 2543, 2544, 2545

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	High side thru .1mf to antenna stator lug of tuning gang. Low side to chassis.	455KC (400v Mod.)	Tuning gang fully open.	Across voice Coil.	A1, A2	Adjust for maximum output.
2.	Loop	1620KC	"	"	A3	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
3.	"	1400KC	1400KC	"	A4	"
4.	"	600KC	600KC	"	A5	Adjust for maximum output while rocking tuning gang. Repeat step 2, 3 and 4, making step 2 the last step.

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 KF232

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A PHOTOFAC STANDARD NOTATION SCHEMATIC

with **CIRCUITAGE**

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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.

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PHILCO
MODEL T-50-126, T-51-124

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

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

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.

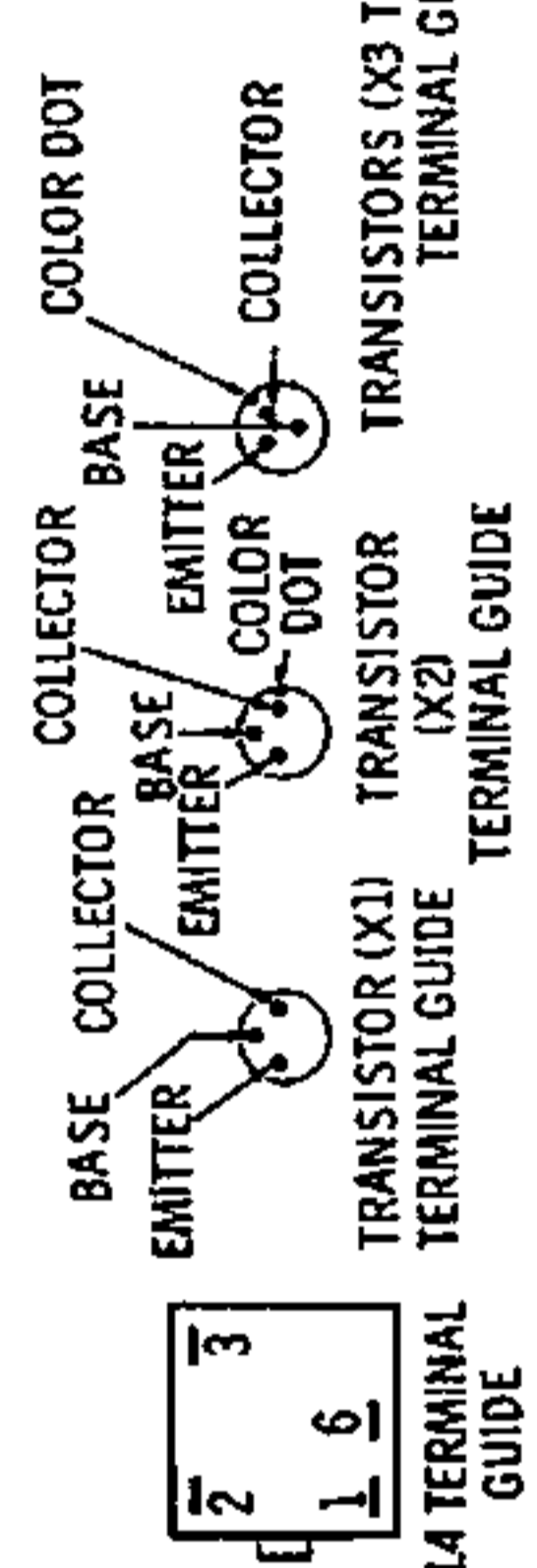
1. DC voltage measurements taken with vacuum tube voltmeter.
2. Socket connections or transistor terminals are shown as bottom views.

3. Measured values are from socket pin or terminal to common ground.

4. Nominal tolerance on component values makes possible a variation of ±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



L2 TERMINAL GUIDE

L3 TERMINAL GUIDE

L4 TERMINAL GUIDE

TRANSISTOR (X1) TERMINAL GUIDE

TRANSISTOR (X2) TERMINAL GUIDE

TRANSISTORS (X3 THRU X5) TERMINAL GUIDE

PARTS LIST AND DESCRIPTIONS

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
X1	T1732 *	Converter				PNP PNP PNP PNP PNP
X2	T1460	IF Amplifier				
X3	T1001	Driver	2N406	2N362	2N408	
X4	T1002A †	Output	2N408			
X5	T1002A †	Output	2N408			

* Alternate Part #T1731.
† Alternate Part #T1549.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	PHILCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	
C1	20	6	30-2588-1	PTT6020	NLW20-8	TT15X20	MLV20-12	TE-1090	
C2	25	6	30-2599-36	BCD6025	ECPBIII	PET1570		VL-1090	

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.
C3	10000		C80V-103AM	DM-103	H-05S1		TA-110	TG-S10
C4	10000		C80V-103AM	DM-103	H-05S1		TA-110	TG-S10
C5	10000		C80V-103AM	DM-103	H-05S1		TA-110	TG-S10
C6	10000		C80V-103AM	DM-103	H-05S1		TA-110	TG-S10
C7	200000 10V	#30-1279-3		UK10-204				

Philco Part Number.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES	
	RESISTANCE	WATTS	PHILCO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.		MALLORY PART No.
R1	30K	1/4	33-5583-10					Volume & 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	6800Ω	Note 1 (3300Ω) † (680Ω) †	R7	820Ω		R12	1800Ω	
R3	1000Ω		R8	330Ω		R13	100Ω	
R4	1000Ω		R9	390K		R14	100Ω	
R5	22K		R10	1800Ω				
R6	15K		R11	100Ω				

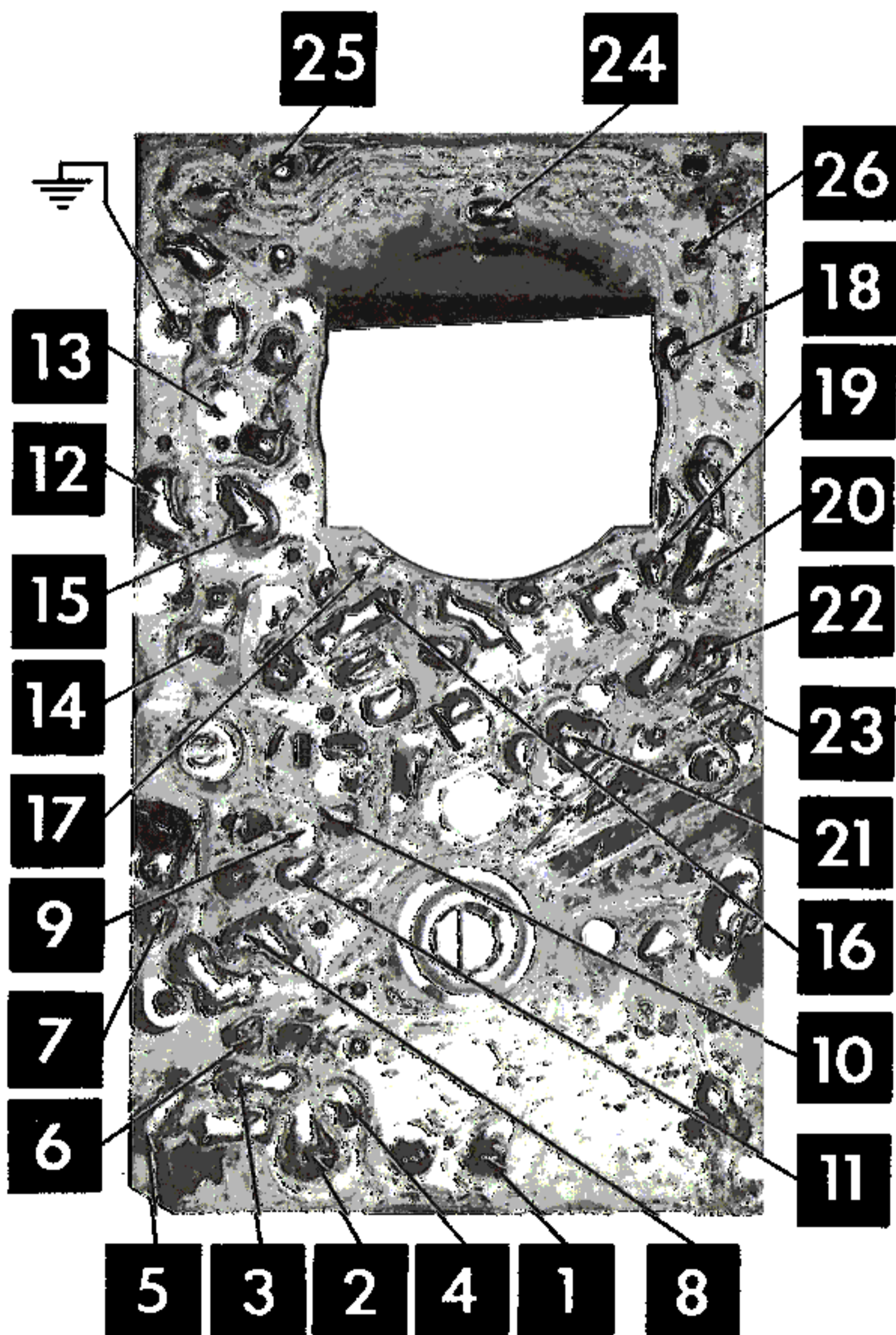
Note 1. Some versions may use 22K or 27K.
† Alternate Value.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		PHILCO PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	
L1	Loopstick	76-10982				
L2	Osc. Coil	32-4689-8				
L3	Input IF Trans.	32-4775-4				
L4	Output IF Trans.	32-4775-5				

PRINTED BOARD

A Howard W. Sams **CIRCUITRACE** Photo



PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			PHILCO PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
	PRI.	SEC. 1						
T1	1.5	1	32-8911-1					
		SEC. 2						
		1						

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				PHILCO PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	2 1/4"	PM	90-100Ω	36-1684-1	22A06Z100	

BATTERIES

ITEM No.	VOLTAGE	PHILCO PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	1.3V	P640 *				E640 *		RM-640R*	* 4 Required

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		PHILCO PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M2	1N60A	34-8022-3		1N60	1N60	Detector (Pigtail)

MISCELLANEOUS

ITEM No.	PART NAME	PHILCO PART No.	NOTES
M3	Tuning Cap. Printed Board	31-2788-3 54-6968	2 Gang

CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Knob	54-6959	Tuning, Model T50-126
Knob	54-6959-4	Tuning, Model T51-124
Knob	54-6958	Volume
Cabinet Back	54-6956	Model T50-126
Cabinet Back	54-6956-1	Model T51-124
Cabinet Front	54-6955	Aqua, Model T50-126
Cabinet Front	54-6955-1	Terra Cotta, Model T50-126
Cabinet Front	54-6955-2	Model T51-124

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

