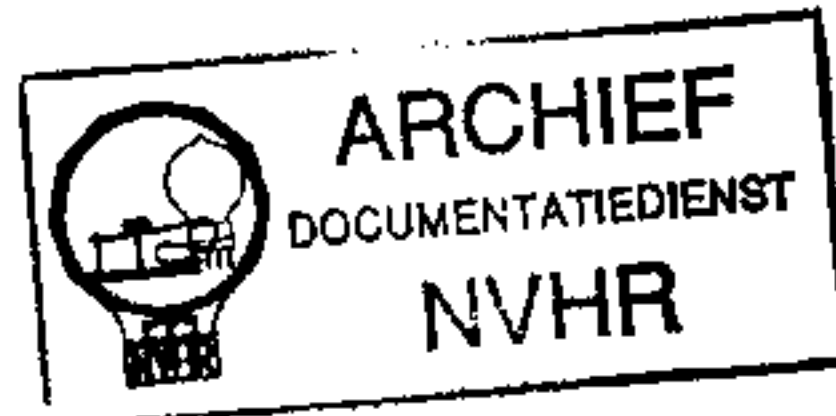


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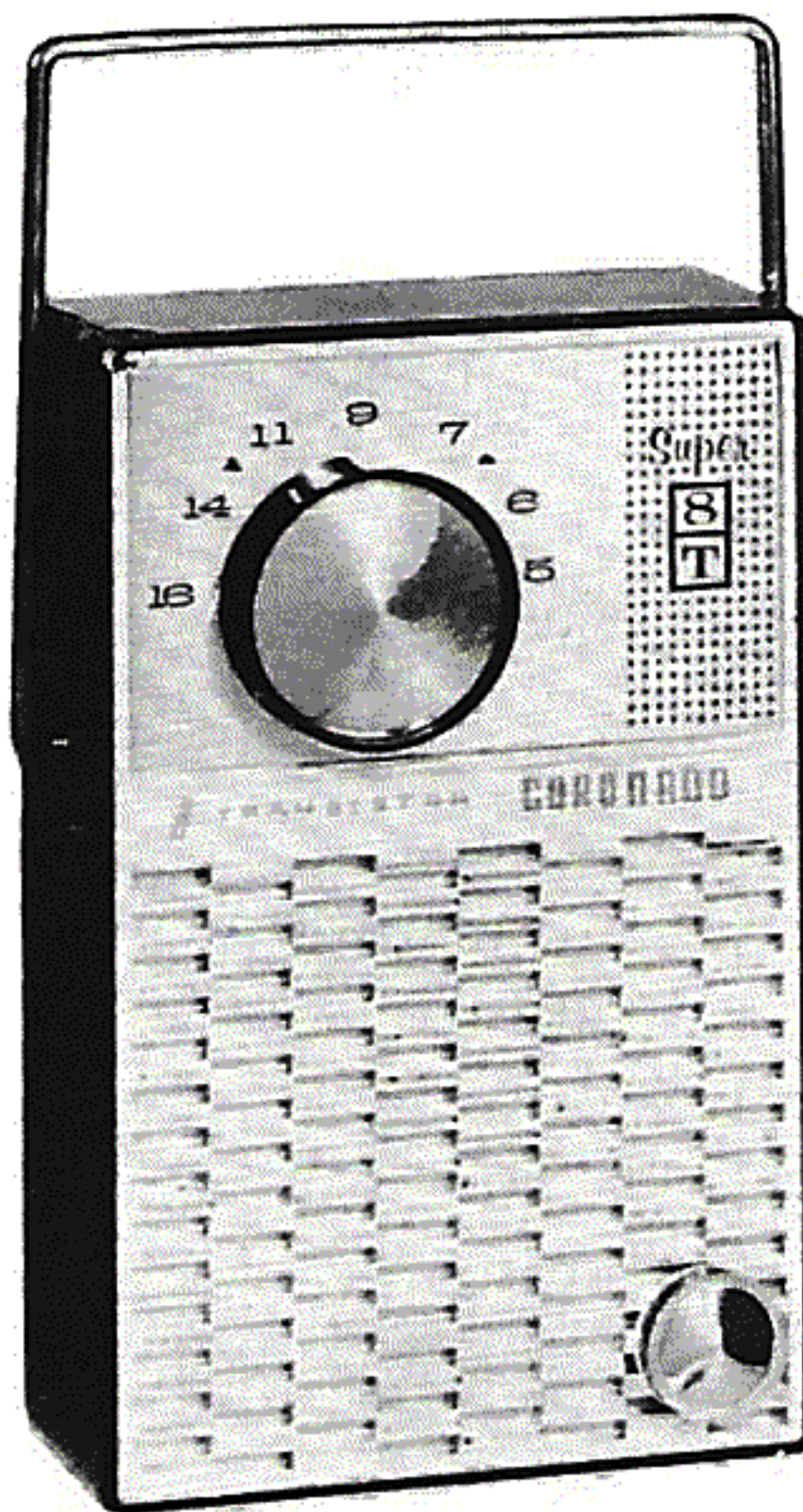
with CIRCUITRACE®

CORONADO MODELS
RA50-9908A, RA50-9909A

Ned. Ver. v. Historie v/d Radio



Met dank aan Jef Bos



TRADE NAME	Coronado Models RA50-9908A, RA50-9909A		
SUPPLIER	Gamble-Skogmo, Inc., 15 North Eighth St., Minneapolis 3, Minnesota		
TYPE SET	Battery Operated Transistorized Portable AM Receiver		
POWER SUPPLY	6 Volts DC	RATING	10MA @ 6 Volts DC (No Signal, Min. Volume)
TUNING RANGE — BROADCAST	540 — 1600KC		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: A1, A2, A4... GENERAL CEMENT #5009, 8195, 8274, 8275, 8278, 8279, 8987, 8988, 8989
WALSCO #2515, 2531, 2532

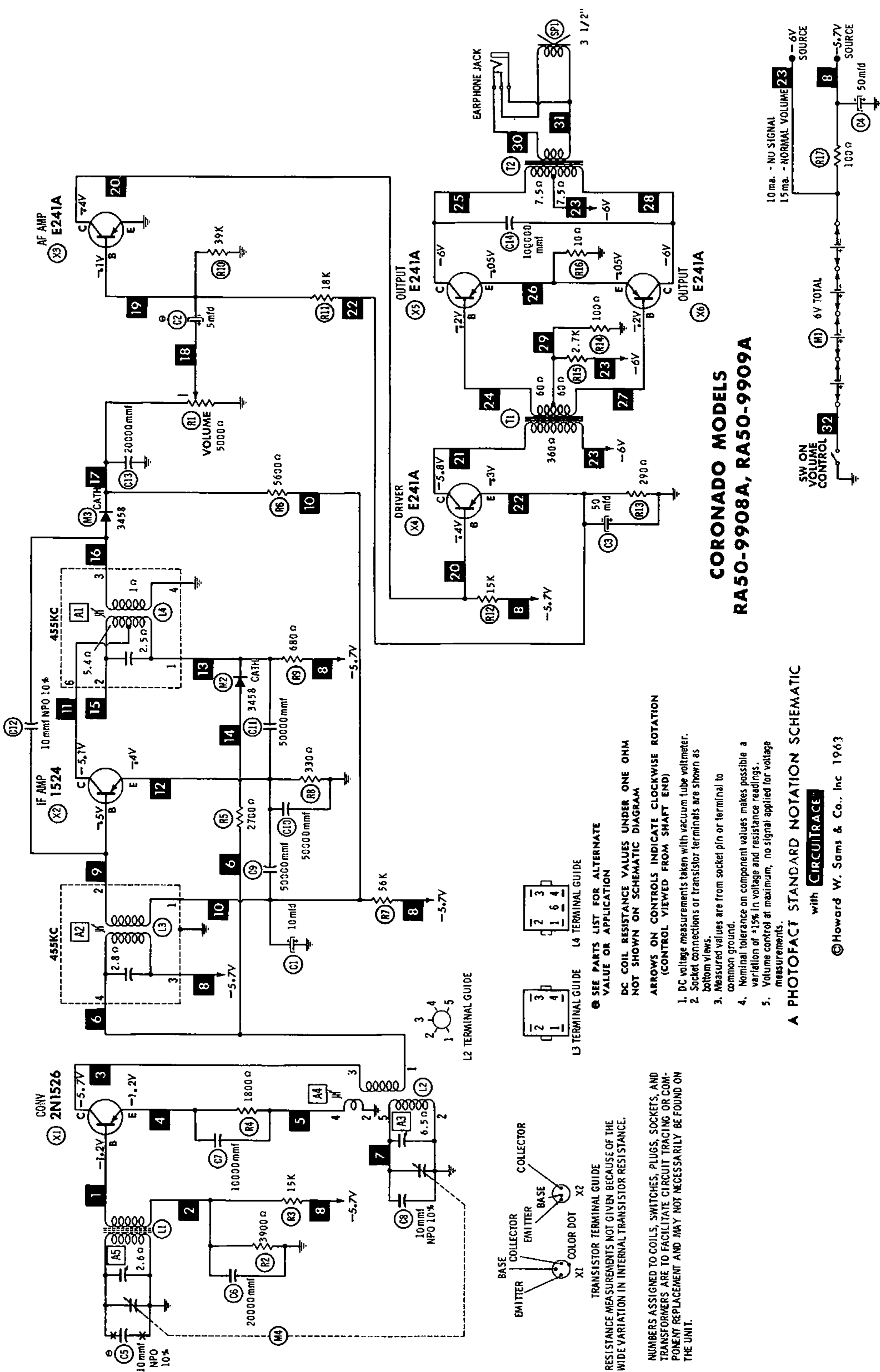
A3, A5... GENERAL CEMENT #5004, 5009, 8195, 8274, 8275, 8607, 8728, 8987, 8988, 8989, 9291
WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	Loop	455KC (400% Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
2.	"	1640KC	"	"	A3	"
3.	"	540KC	Tuning gang fully closed.	"	A4	"
4.	"	1400KC	1400KC Signal.	"	A5	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 KF684*

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. ©1963 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America



**CORONADO MODELS
RA50-9908A, RA50-9909A**

A PHOTOFACT STANDARD NOTATION SCHEMATIC

with **CIRCUITRACE**

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SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

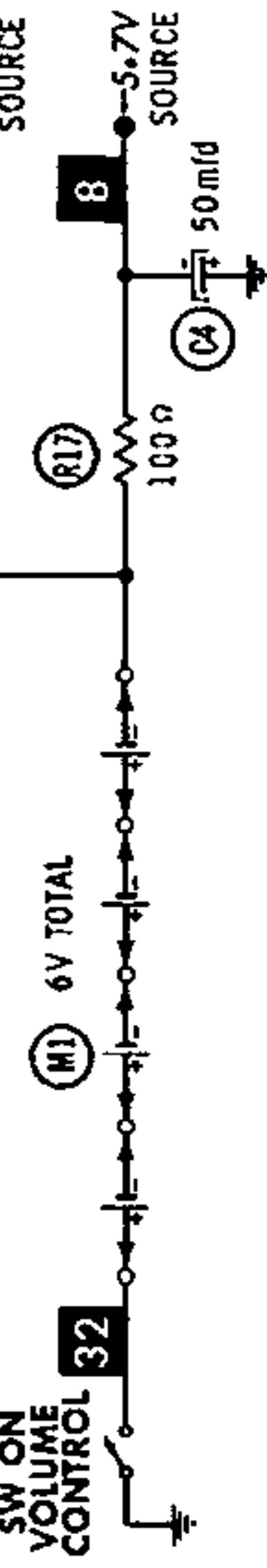
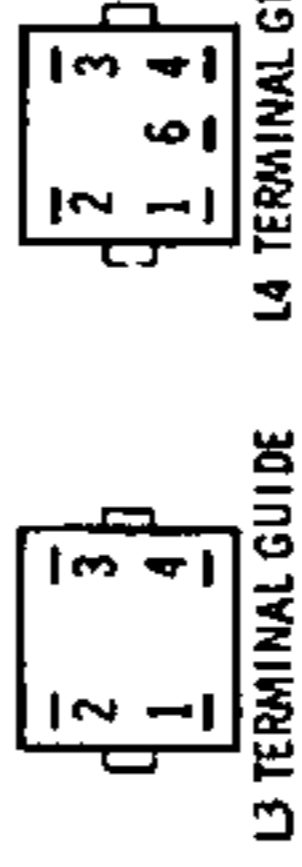
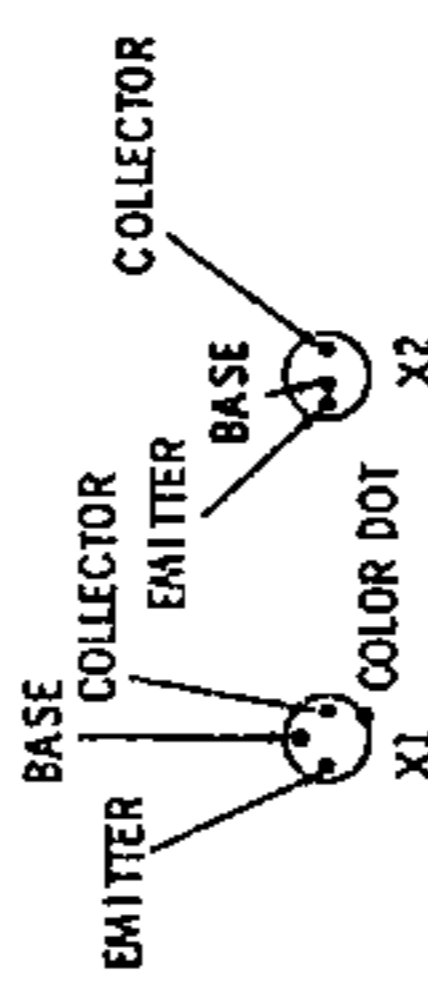
DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

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 ±15% in voltage and resistance readings.
5. Volume control at maximum, no signal applied for voltage measurements.

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

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.



PARTS LIST AND DESCRIPTIONS

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	2N1526	Converter	DS25	GE-1		PNP
X2	1524	IF Amplifier	DS25	GE-1		PNP
X3	2N1524*	IF Amplifier	DS25	GE-1		PNP
	E241A	AF Amplifier	DS26	GE-2	2N406	PNP
X4	3550*	AF Amplifier	DS26	GE-2	2N406	PNP
	E241A	Driver	DS26	GE-2	2N406	PNP
X5	3550*	Driver	DS26	GE-2	2N406	PNP
	E241A	Output	DS26	GE-2	2N406	PNP
X6	2N406*	Output	DS26	GE-2	2N406	PNP
	E241A	Output	DS26	GE-2	2N406	PNP
	2N406*	Output	DS26	GE-2	2N406	PNP

* Alternate

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	CORONADO 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	E3238	PTT39	NLW10-15	MT1-5	TT12X10	MLV10-10	TE-1114
C2	5	10	E3240 ①	PTT37	NLW5-15	MT1-3	TT12X5	MLV5-12	TE-1127
C3	50	10		PTT45	NLW50-10	MT1-16	TT10X50	MLV50-10	TE-1119
C4	50	10	E3240	PTT45	NLW50-10	MT1-16	TT10X50	MLV50-10	TE-1119

① Some versions may use 3mfd @ 7V in this application (Part #E3239).

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	10 NPO 10%	Note 1	NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C6	20000		BPD-02	DD-203	H-05S2	CCD-203	TA-120	TG-S20
C9	10000		BPD-01	DD-103	H-05S1	CCD-103	TA-110	TG-S10
C8	10 NPO 10%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C9	50000		BPD-05	DD-503	H-05S5		TA-150	TG-S50
C10	50000		BPD-05	DD-503	H-05S5		TA-150	TG-S50
C11	50000		BPD-05	DD-503	H-05S5		TA-150	TG-S50
C12	10 NPO 10%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C13	20000		BPD-02	DD-203	H-05S2	CCD-203	TA-120	TG-S20
C14	100000		C80V104AM	DDA-104	H-05P1		TA-010	TG-P10

Note 1. Not used in some versions.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	Coronado PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
RIA B	5000Ω Switch	1/2	E2556A					Volume Power Off-On

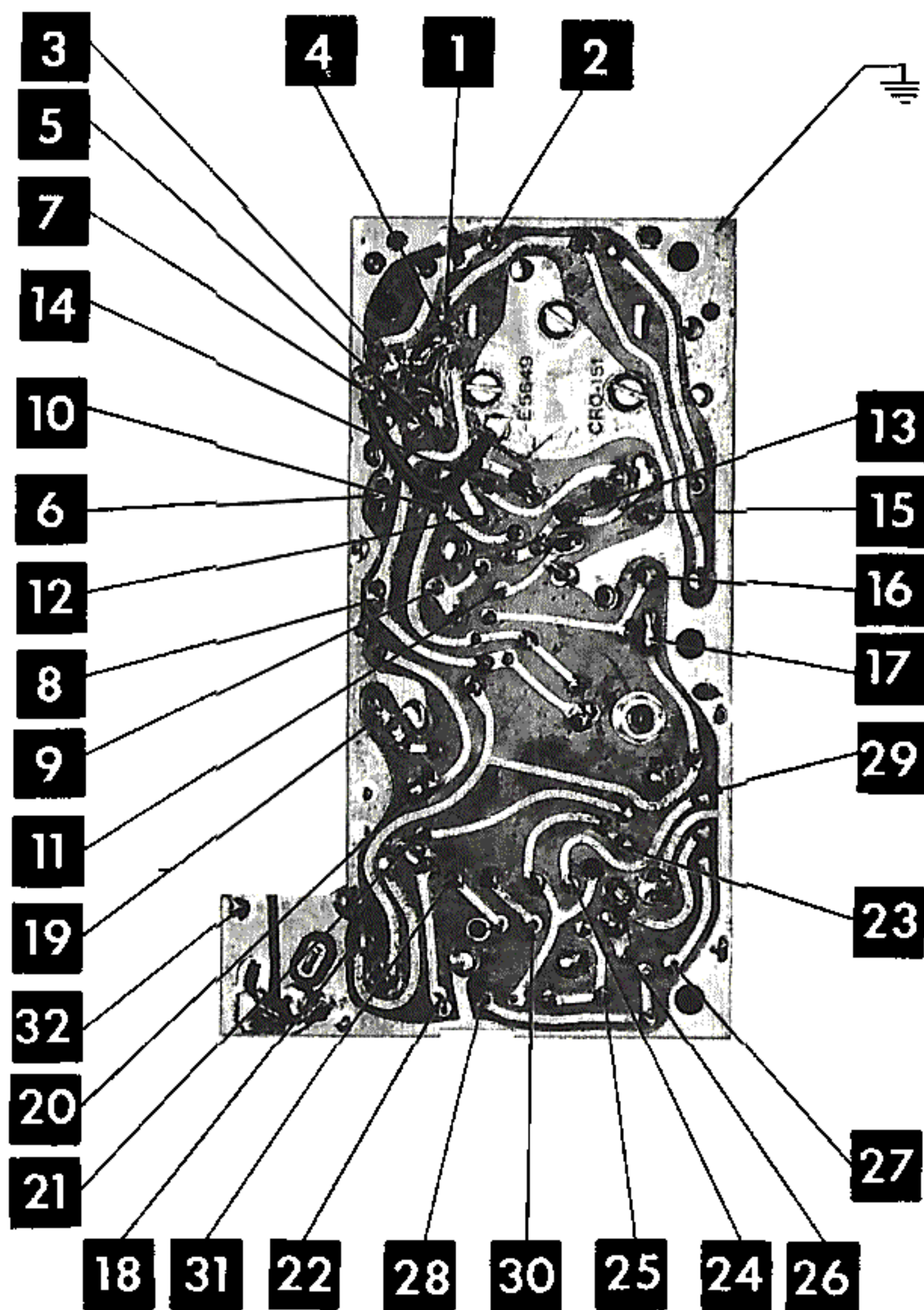
RESISTORS

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	3900Ω				R10	39K			
R3	15K				R11	16K			
R4	1800Ω				R12	15K			
R5	2700Ω				R13	290Ω			
R6	5600Ω				R14	100Ω			
R7	56K				R15	2700Ω			
R8	330Ω				R16	10Ω			
R9	680Ω				R17	100Ω			

PRINTED BOARD

A Howard W. Sans **CIRCUITRACI** Photo



PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		CORONADO PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1 L2 L3 L4	Loopstick Oscillator Input IF Output IF	E8035B E8144A E8262A E8263A					

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
	PRI.	SEC.	CORONADO PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	1.8	1	E1192B					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	CORONADO PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	1200Ω CT	3-4Ω	E1133B					

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	CORONADO PART No.	QUAM PART No.	
SP1	3½"	PM	3-4Ω	E1059	3A05 *	* Trim Mounting to fit

BATTERIES

ITEM No.	VOLTAGE	CORONADO PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
MI	1.5V	62-67		930 *		1015*		M-15R*	* 4 Required

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		CORONADO PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M2 M3	3458 3458	E2412 E2412				Overload Detector

MISCELLANEOUS

ITEM No.	PART NAME	Coronado PART No.	NOTES
M4	Tuning Cap. Printed Board	E3530B E5649	2 Gang

CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Knob	E50175C	Tuning
Knob	E50153B	Volume
Handle	E40143B	
Cabinet	E70126D	Black

NAME	PART NO.	DESCRIPTION
Cabinet	E70129D	White
Cabinet Face	E70111D	White
Cabinet Face	E70130D	Black

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid 22AWG)	Available
	8524 (Stranded 22AWG)	in
	8570 (Stranded 28AWG)	12 Colors

CHASSIS—TOP VIEW

