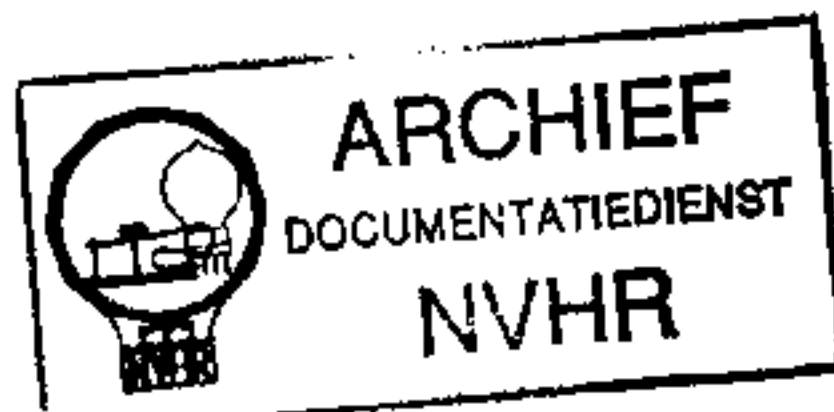
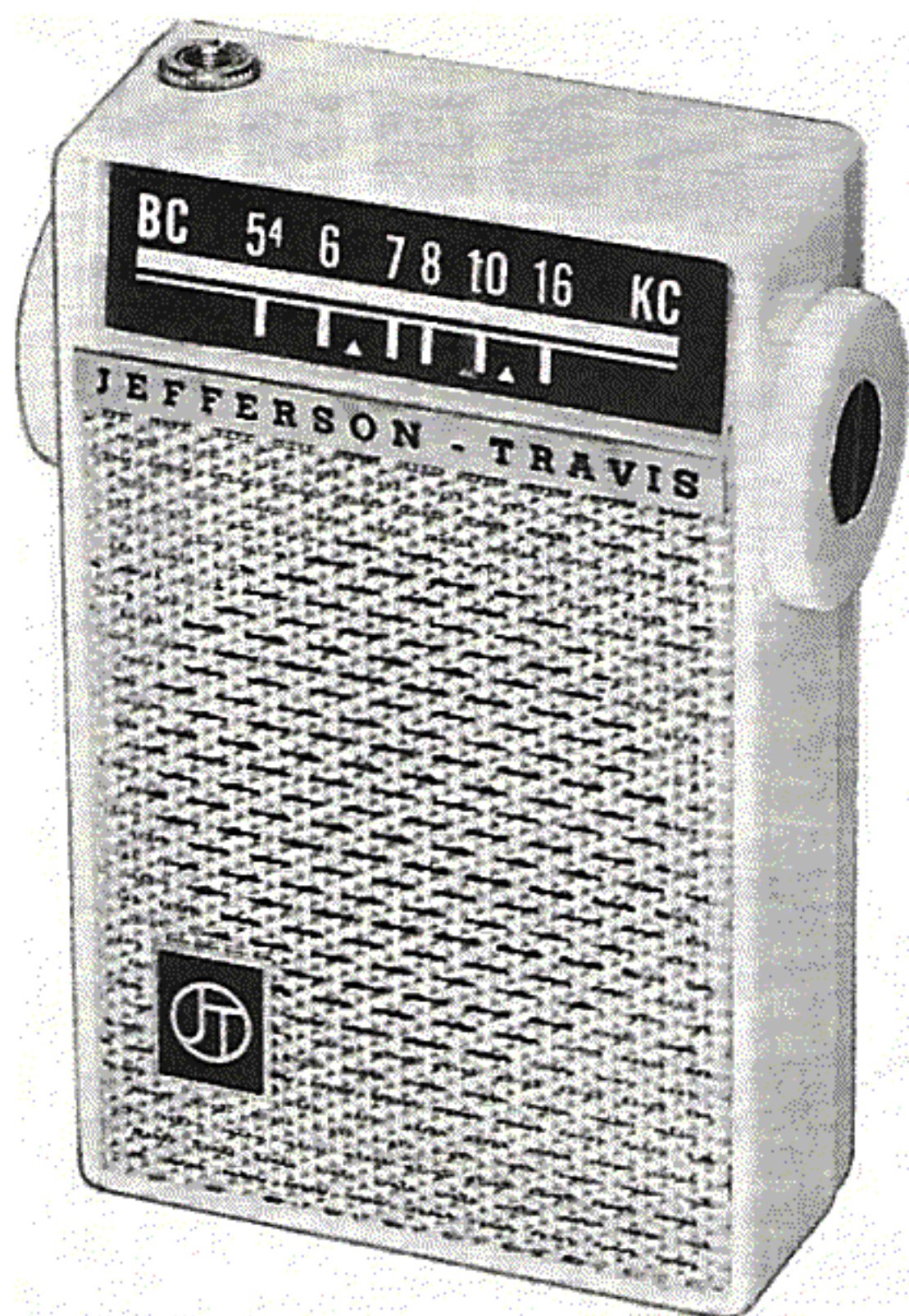


PHOTOFACT® Folder with CIRCUITRACE™

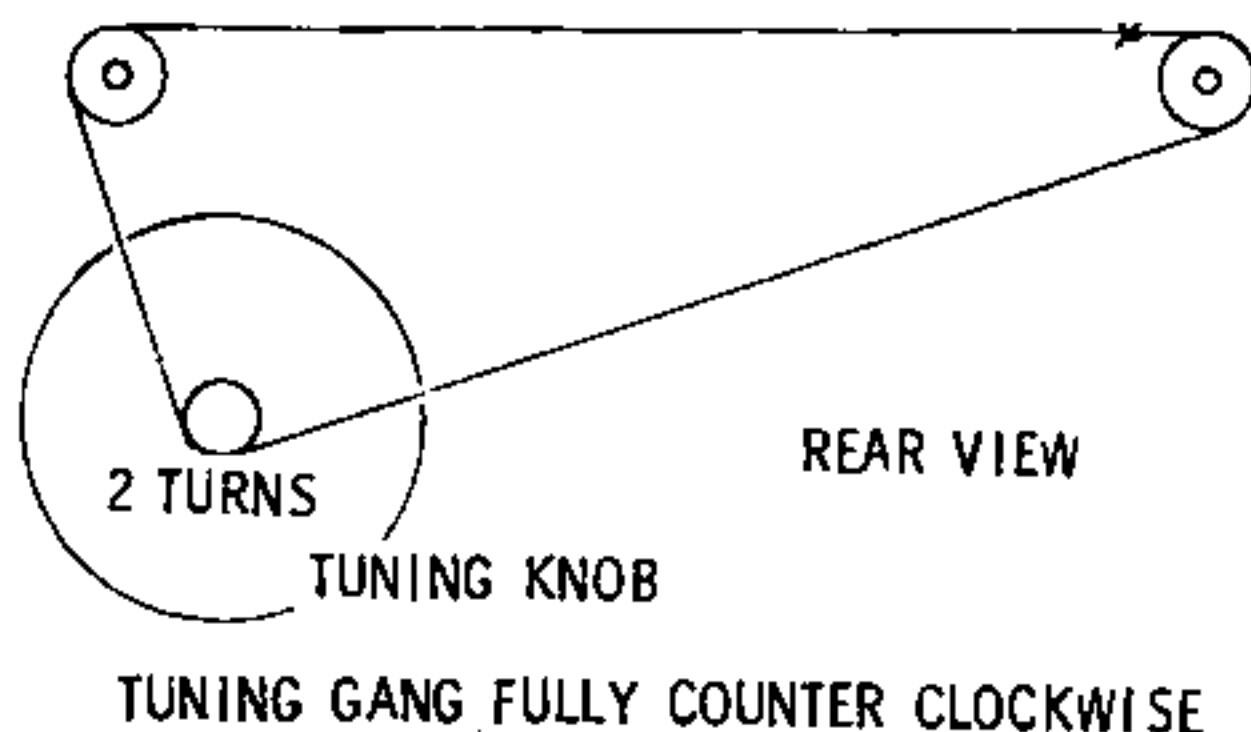
JEFFERSON-TRAVIS  
MODEL JT-F211

Met dank aan Jef Bos

Ned. Ver. v. Historie v/d Radio



## DIAL CORD STRINGING



TRADE NAME	Jefferson-Travis Model JT-F211		
SUPPLIER	Jefferson-Travis, Inc., Subsidiary of Emerson Radio & Phonograph Corp., 524 W. 23rd St., New York 11, N. Y.		
TYPE SET	Battery Operated Transistorized Portable AM Receiver		
POWER SUPPLY	9 Volts DC	RATING	4MA @ 9 Volts DC (No Signal, Min. Volume)
TUNING RANGE—BROADCAST	540 — 1600KC		7MA @ 9 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: A4, A7.... GENERAL CEMENT #5000, 5003, 5066, 8271, 8272, 8276, 8277, 8290, 8609, 8722, 9150, 9298  
WALSCO #2515, 2516, 2518, 2519, 2525, 2541

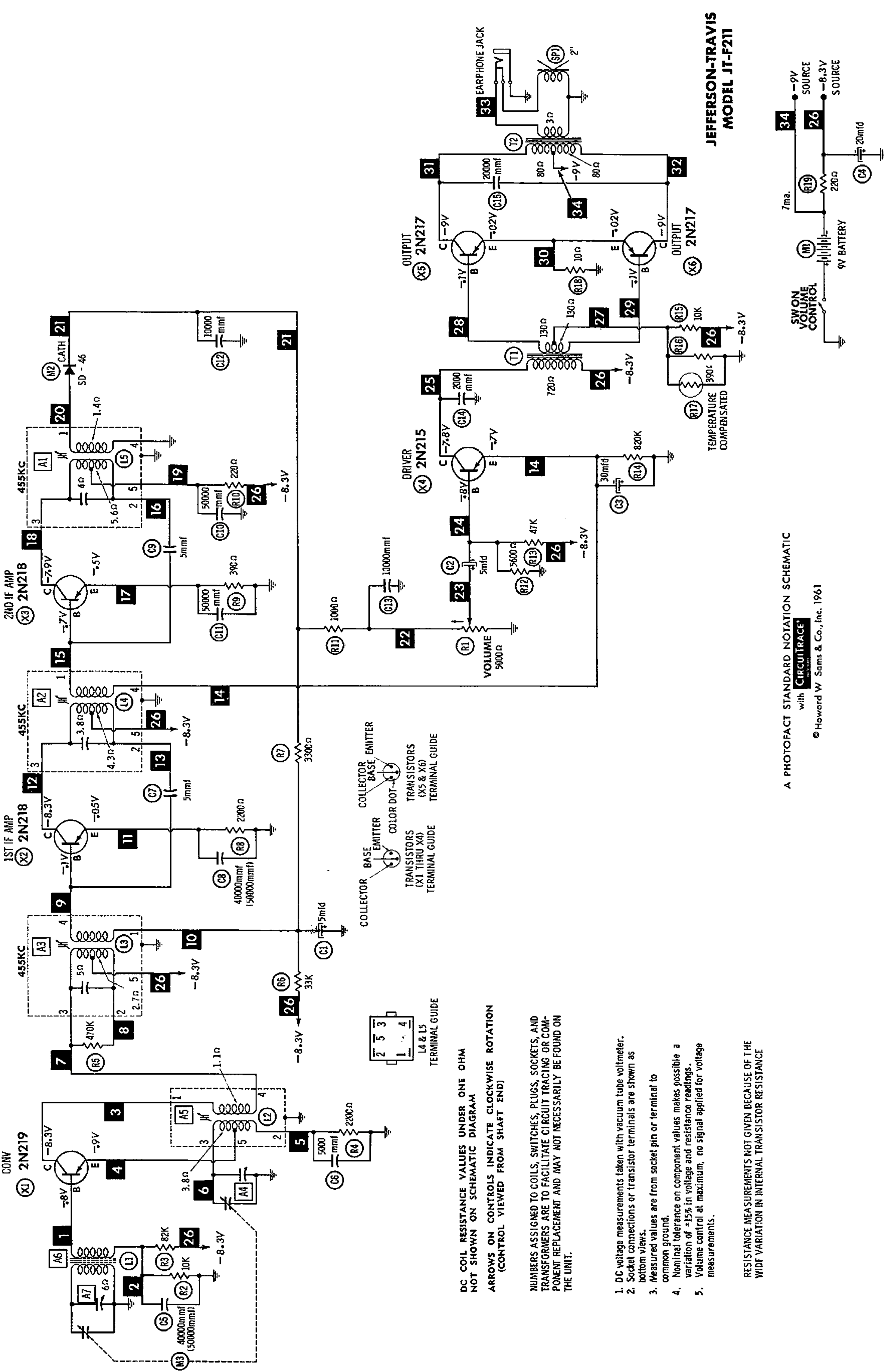
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	Loop	455KC (400v Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2, A3	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
2.	"	1650KC	"	"	A4	"
3.	"	525KC	Tuning gang fully closed.	"	A5, A6	"
4.	"	1400KC	1400KC Signal.	"	A7	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 KF246

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. © 1961 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America





**JEFFERSON-TRAVIS  
MODEL JT-F211**

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM  
ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

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 WIDF VARIATION IN INTERNAL TRANSISTOR RESISTANCE

A PHOTOFAC STANDARD NOTATION SCHEMATIC

with **CIRCUITRACE**

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# PARTS LIST AND DESCRIPTIONS

## TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
X1	2N219	Converter	2N219	2N486	2N219	PNP
X2	2N218	1st IF Amplifier	2N218	2N483	2N218	PNP
X3	2N218	2nd IF Amplifier	2N218	2N483	2N218	PNP
X4	2N215	Driver	2N407	2N362	2N104	PNP
X5	2N217	Output	2N217	2N633	2N217	PNP
X6	2N217	Output	2N217	2N633	2N217	PNP

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					NOTES	
	CAP.	VOLT.	Jefferson-Travis PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.		SPRAGUE PART No.
C1	5	6	CD-231			TT8X5			
C2	5	6	CD-231			TT8X5			
C3	30	3	CD-232B						
C4	20	10	CD-233B						

## 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	40000	(50000) †							
C6	5000		C80V502AM	DM-502	H-05D5	CCD-502	TA-250	TG-D50	
C7	5		DI-5	DD-050	L10V5	CCD-050	GP550	10TS-V50	
C8	40000	(50000) †							
C9	5		DI-5	DD-050	L10V5	CCD-050	GP550	10TS-V50	
C10	50000		C80V503AM	DA-503	H-05S5		TA-150	TG-S50	
C11	50000		C80V503AM	DA-503	H-05S5		TA-150	TG-S50	
C12	10000		C80V103AM	DM-103	H-05S1		TA-110	TG-S10	
C13	10000		C80V103AM	DM-103	H-05S1		TA-110	TG-S10	
C14	2000		BPD-002	DM-202	BYA10D2	CCD-202	B-220	5HK-D20	
C15	20000		C80V203AM	DA-203	H-05S2		TA-120	TG-S20	

† Alternate Value.

## CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	Jefferson-Travis PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1	5000Ω	1/4	RD-130					Volume & Switch

## RESISTORS (IRC or EQUIVALENT)

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

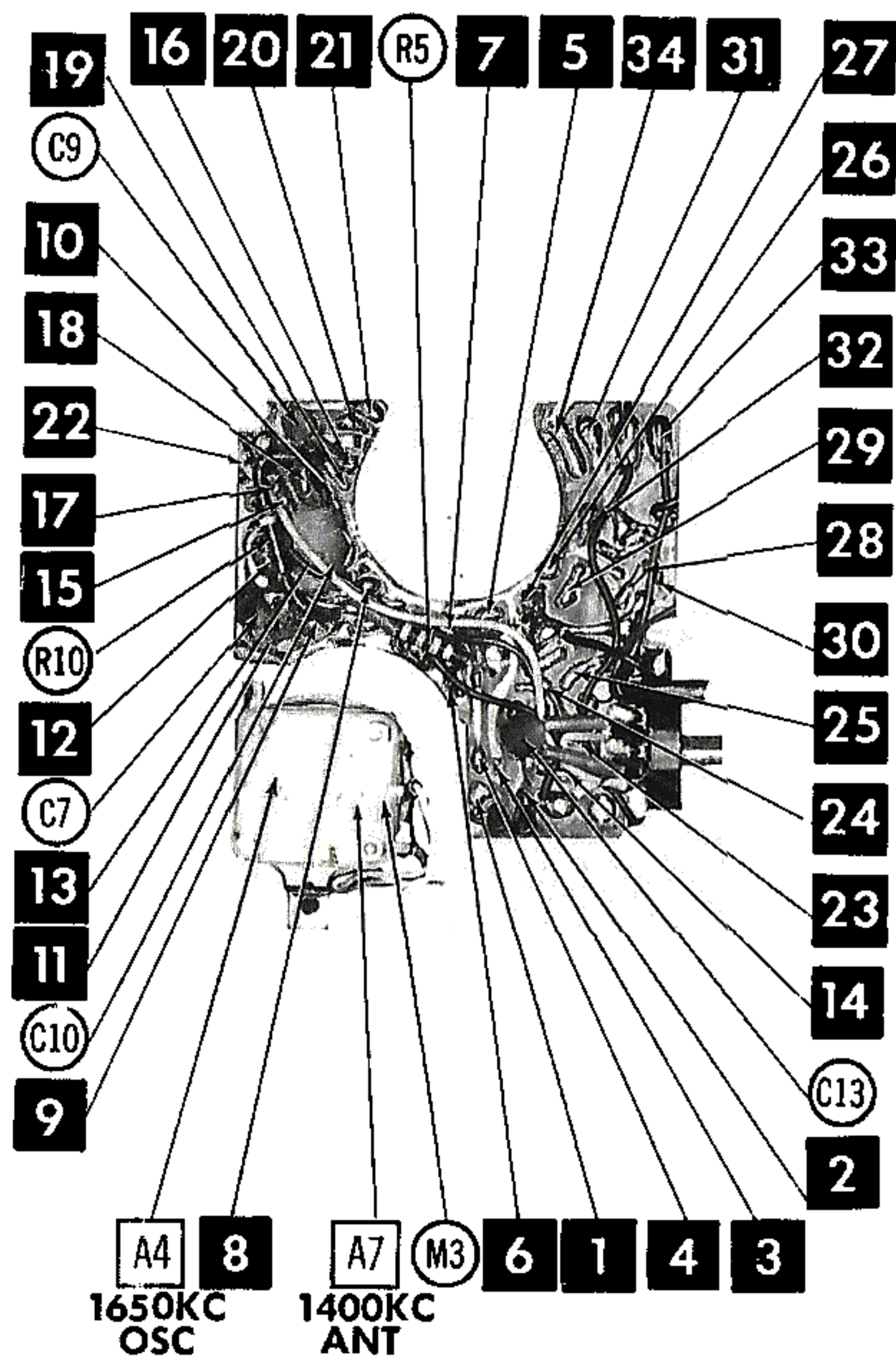
ITEM No.	RATING	REMARKS
R2	10K	
R3	82K	
R4	2200Ω	
R5	470K	
R6	33K	
R7	3300Ω	

ITEM No.	RATING	REMARKS
R8	2200Ω	
R9	390Ω	
R10	220Ω	
R11	1000Ω	
R12	5600Ω	
R13	47K	

ITEM No.	RATING	REMARKS
R14	820Ω	
R15	10K	
R16	390Ω	
R17	Temp. Comp.	#B-2B
R18	10Ω	
R19	220Ω	

# PRINTED BOARD

A Howard W. Sams **CIRCUITRACE** Photo





# PARTS LIST AND DESCRIPTIONS (Continued)

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		Jefferson-Travis PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	
L1	Loopstick	LT-151K				
L2	Osc. Coil	LT-228				
L3	1st IF Trans.	LT-327A				
L4	2nd IF Trans.	LT-327B				
L5	3rd IF Trans.	LT-327C				

### TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			Jefferson-Travis PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
	PRI.	SEC.						
T1	2	1	LT-514			TR-125		

### TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			Jefferson-Travis PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
	PRI.	SEC.						
T2	250Ω CT	6-8Ω	LT-437			TR-47		

### SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				Jefferson-Travis PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	2"	PM	6-8Ω	SP5-01		

### BATTERIES

ITEM No.	VOLTAGE	Jefferson-Travis PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	9V			2U6		2I6		M-1604	

### SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		Jefferson-Travis PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M2	SD-46	SD-46		1N60	1N60	Detector (Pigtail)

### MISCELLANEOUS

ITEM No.	PART NAME	Jefferson-Travis PART No.	NOTES
M3	Tuning Cap.	CD-131	2 Gang

### CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Knob	JT-2780	Tuning
Knob	JT-2781	Volume
Cabinet	JT-2779	Back
Cabinet	JT-2778	Front, Includes Dial Glass

### WIRING DATA

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

