

PHOTOFACT® Folder

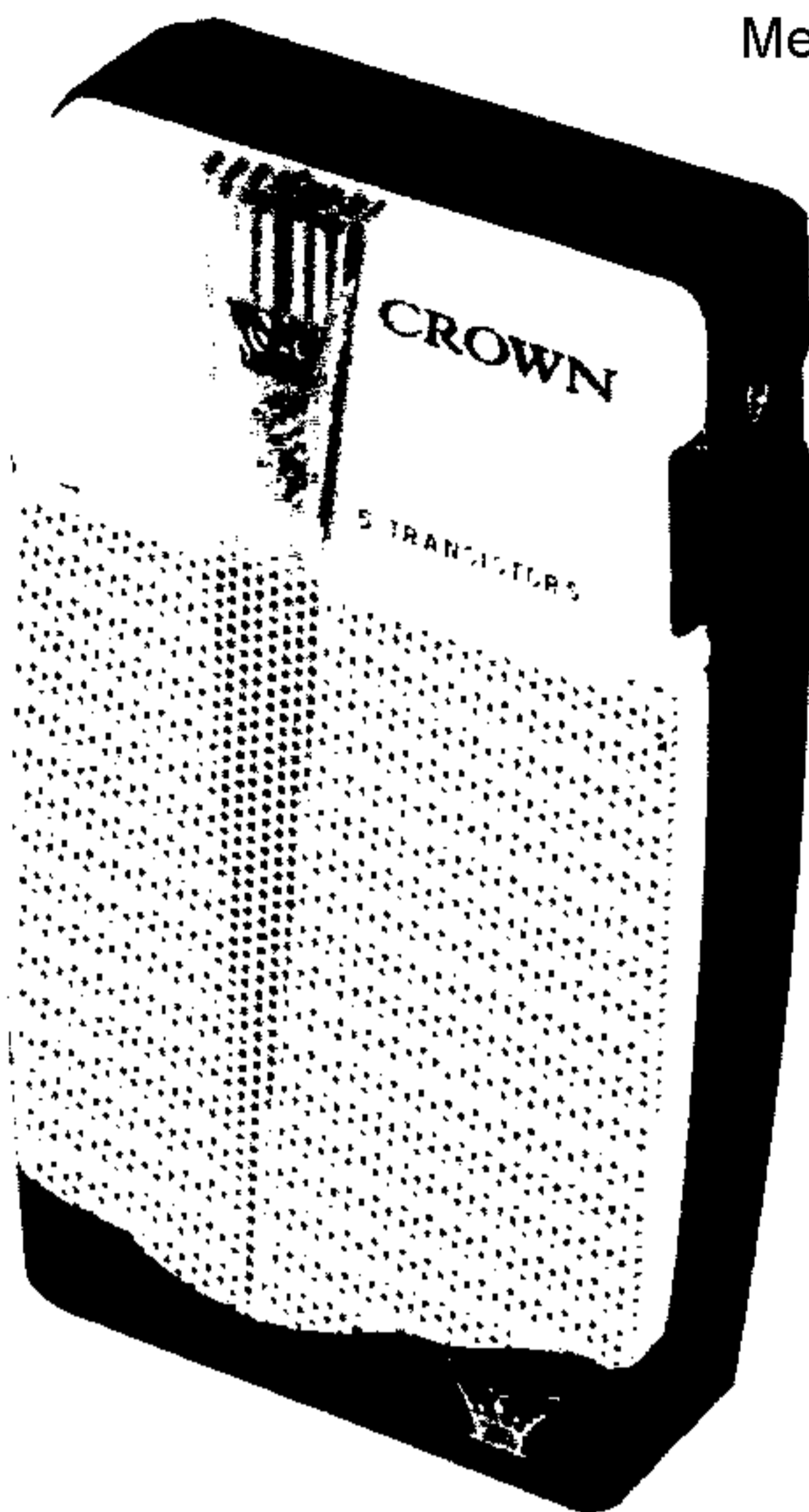
with CIRCUITRACE

CROWN MODEL TR-555



Met dank aan Jef Bos

d. Ver. v. Historie v/d Radio



TRADE NAME	Crown Model TR-555		
IMPORTER	Shiro, Inc., 276 Fourth Ave., New York 10, N. Y.		
TYPE SET	Battery Operated Transistorized Portable AM Receiver		
POWER SUPPLY	9 Volts DC	RATING	10MA @ 9 Volts DC (No Signal, Min. Volume)
TUNING RANGE--BROADCAST	535 - 1650KC		15MA @ 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: A1, A2, A4.....GENERAL CEMENT #5004, 5009, 8195, 8274, 8275, 8607, 8728, 8987, 8988, 8989, 9291  
 WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538  
 A3, A5.....GENERAL CEMENT #5000, 5003, 5066, 8271, 8272, 8276, 8277, 8290, 8609, 8722, 9150, 9298  
 WALSCO #2515, 2516, 2518, 2519, 2525, 2541

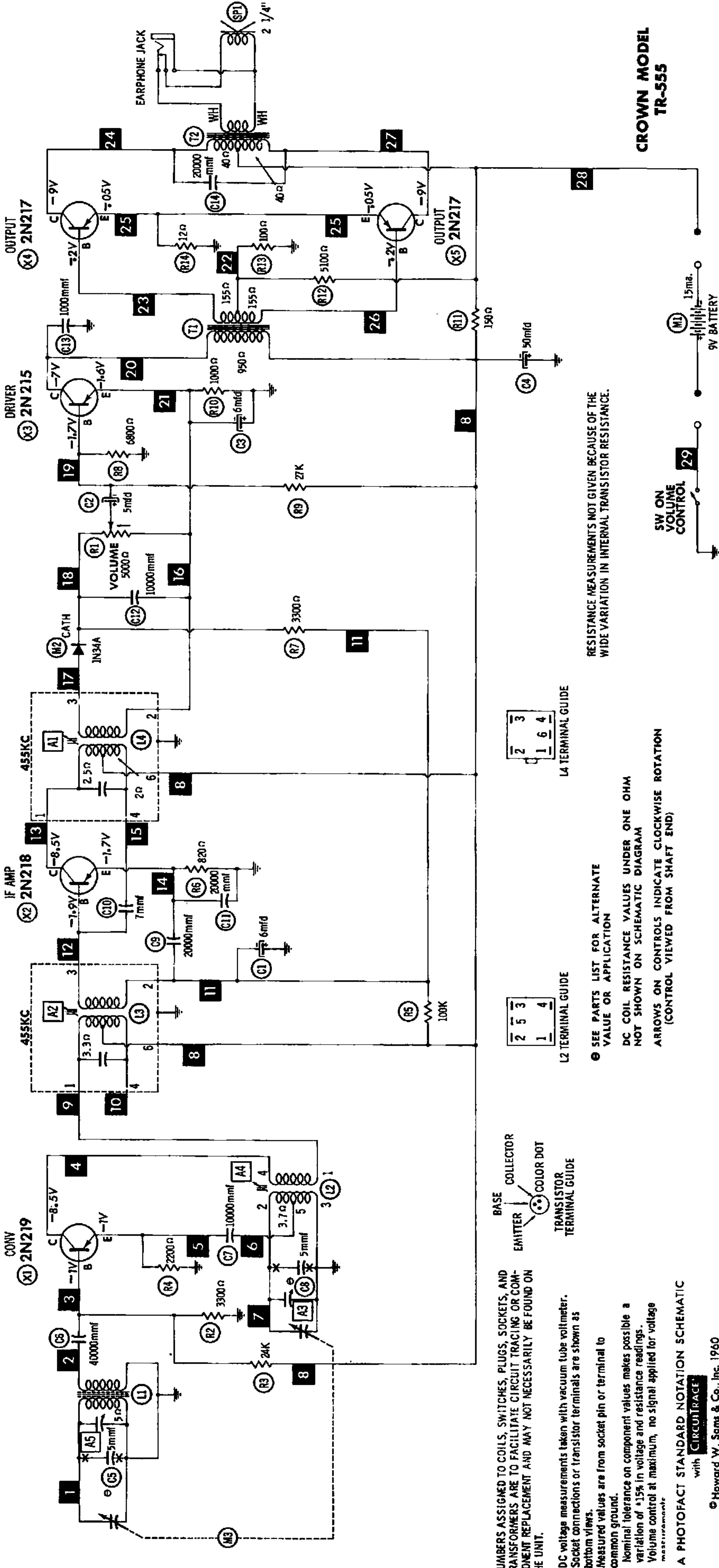
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	Loop	455KC (400v Mod.)	Tuning gang fully open.	Across voice coil.	A1, A2	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
2.	"	1600KC	1600KC	"	A3	"
3.	"	600KC	600KC Signal	"	A4	"
4.	"	1400KC	1400KC Signal	"	A5	Adjust for maximum output while rocking tuning gang.

### 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

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**CROWN MODEL TR-555**

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

BASE COLLECTOR  
 EMITTER  
 COLOR DOT

TRANSISTOR TERMINAL GUIDE

L2 TERMINAL GUIDE

2	5	3
1	4	

L4 TERMINAL GUIDE

2	3
1	4

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

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)

A PHOTOFACIT STANDARD NOTATION SCHEMATIC with **CIRCUITRACE**

# PARTS LIST AND DESCRIPTIONS

## TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA				NOTES
			CBS PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
X1	2N219	Converter IF Amplifier Driver Output Output		2N219	2N485	2N219	PNP PNP PNP PNP } Matched PNP } Pair
X2	2N218			2N218	2N482	2N218	
X3	2N215			2N407	2N362	2N104	
X4	2N217			2N407	2N832	2N217	
X5	2N217			2N407	2N632	2N217	

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		CROWN PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES
	CAP.	VOLT.							
C1	6	6		XPP-6006	NLW6-15	TT10X6	ML6-6	TE-1085	
C2	5	3		XPP-3005	NLW5-15	TT6X5	M5-6	TE-1052.2	
C3	6	6		XPP-6006	NLW6-15	TT10X6	ML6-6	TE-1085	
C4	50	10		XPP-10050	NLW50-10	TT10X50	ML50-15	TE-1119	

## 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	5	Note 1	NPO-DI 5.0	DTZ-4R7	C10V5C	CCTO-050	CNO-547	10TCC-V50
C6	40000	Note 1	C80V103AM	DDM-103	H-05S1	CCTO-050	TA-110	TG-S10
C7	10000		NPO-DI 5.0	DTZ-4R7	C10V5C		CNO-547	10TCC-V50
C8	5		C80V203AM	DDM-203	H-05S2	TA-120	TG-S20	
C9	20000		NPO-DI 6.8	DTZ-6R8	C10V7C	CCTO-6R8	CNO-568	10TCC-V68
C10	7		C80V203AM	DDM-203	H-05S2	TA-120	TG-S20	
C11	20000		C80V103AM	DDM-103	H-05S1	TA-110	TG-S10	
C12	10000		C80V102AM	DM-102	H-05D1	CCD-102	B-210	5HK-D10
C13	1000		C80V203AM	H-05S2		B-120	TG-S20	
C14	20000							

Note 1. Not used in some versions.

## CONTROLS

ITEM No.	RATING		CROWN PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
	RESISTANCE	WATTS						
R1	5000Ω	1/4	SNV-16ZL					Volume & Switch

## RESISTORS (IRC or EQUIVALENT)

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

ITEM No.	RATING	REMARKS
R2	3300Ω	
R3	24K	
R4	2200Ω	
R5	100K	
R6	820Ω	

ITEM No.	RATING	REMARKS
R7	3300Ω	
R8	6800Ω	
R9	27K	
R10	1000Ω	
R11	150Ω	

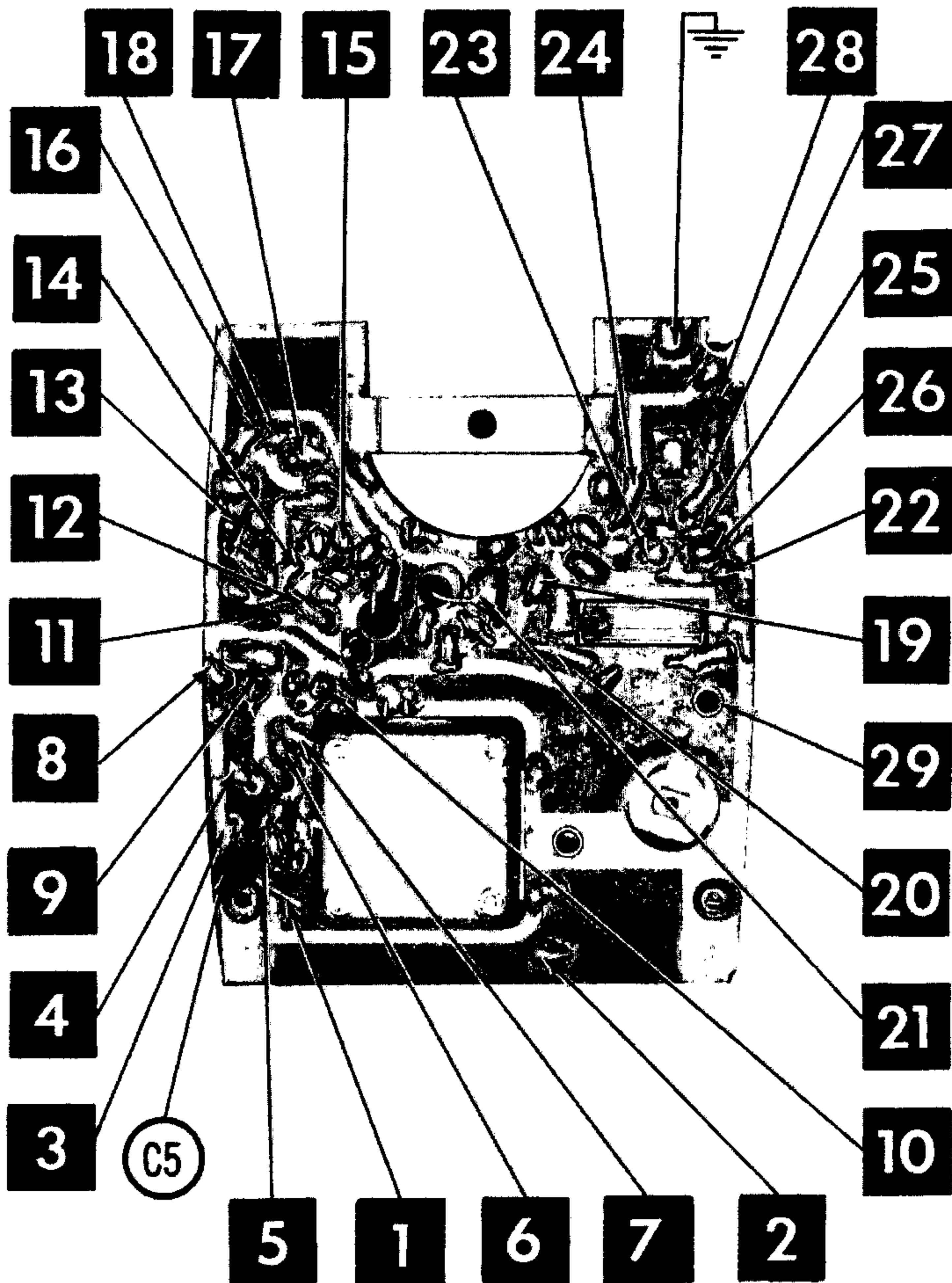
ITEM No.	RATING	REMARKS
R12	5100Ω	
R13	100Ω	
R14	12Ω	

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		CROWN PART No.	Merit PART No.	Miller PART No.	Ram PART No.	
L1	Loopstick	TR-555				
L2	Osc. Coil	X0-127				
L3	Input IF Trans.	6641				
L4	Output IF Trans.	6612				

# PRINTED BOARD

A Howard W. Sams **CIRCUITRACE** Photo



# PARTS LIST AND DESCRIPTIONS (Continued)

## TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
	PRI.	SEC.	CROWN PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	1	1	TRT-30					

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	CROWN PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	
T2	800Ω CT	8-10Ω	TRT-31					

## SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	CROWN PART No.	QUAM PART No.	
SP1	2 1/4"	PM	8-10Ω	PL-230	22A06Z10	

## BATTERIES

ITEM No.	VOLTAGE	CROWN PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	9V			2U6		216		M-1604	

## CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		CROWN PART No.	CBS PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M2	1N34A		1N34A	1N34A	1N34A	Detector (Pigtail)

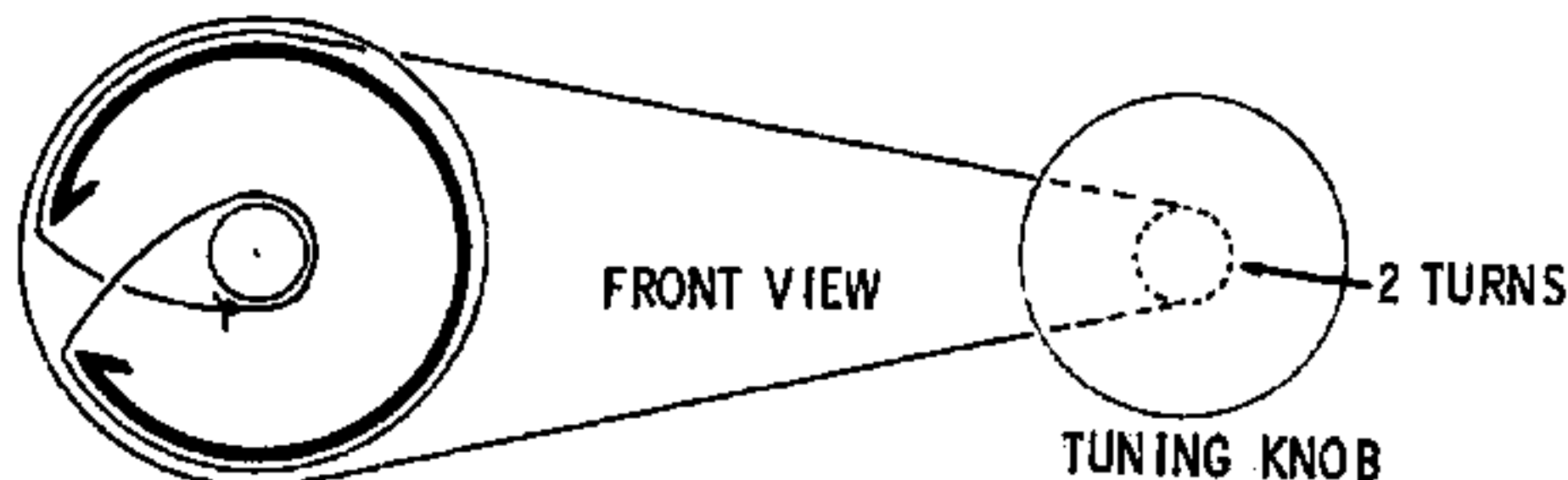
## MISCELLANEOUS

ITEM No.	PART NAME	CROWN PART No.	NOTES
M3	Tuning Cap.	PV-P4	2 Gang

## WIRING DATA

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

## TUNING DRIVE CORD STRINGING



TUNING GANG FULLY CLOCKWISE

**CHASSIS—TOP VIEW**

