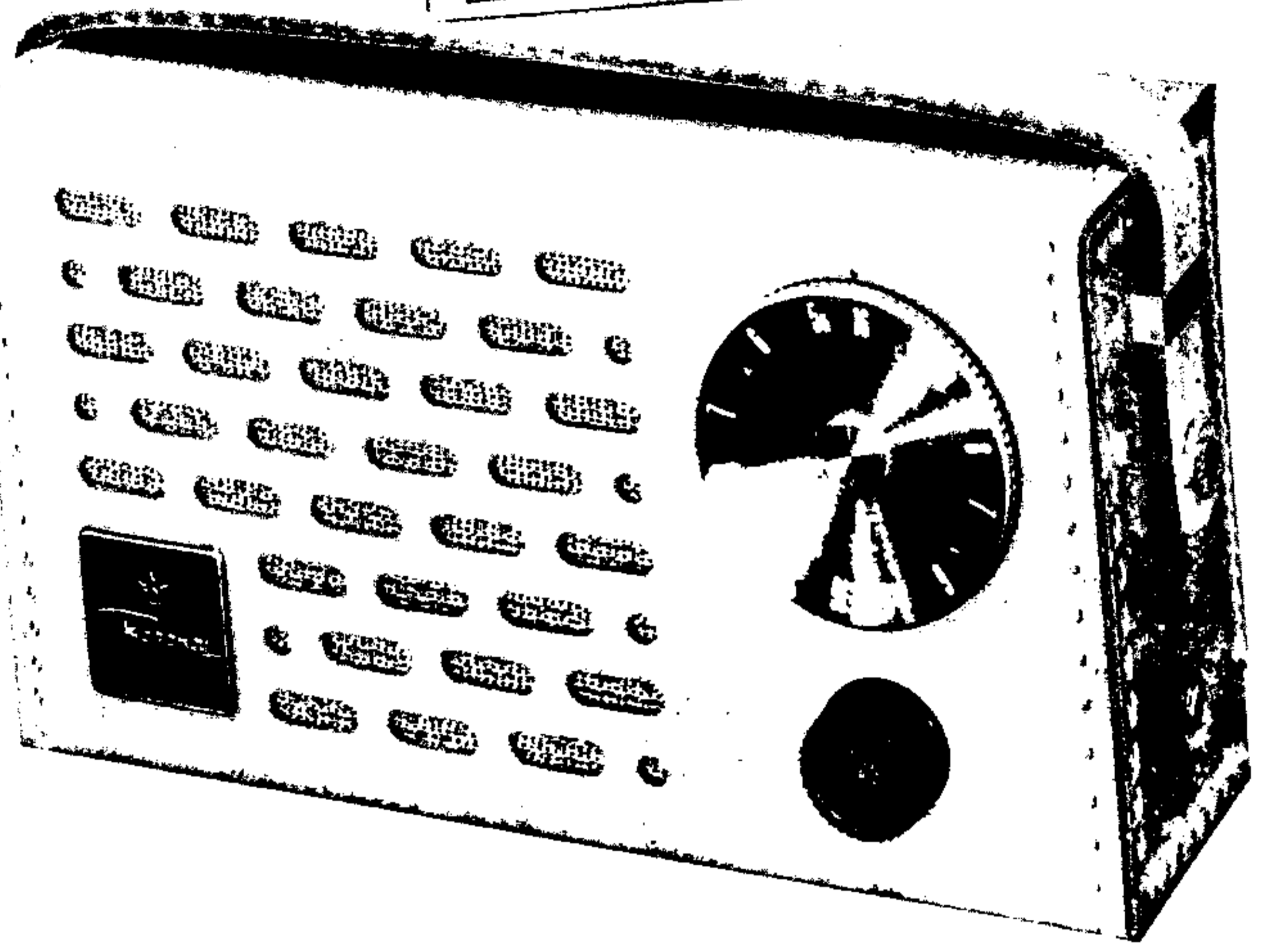


**PHOTOFACT\*** Folder  
TRADE MARK

**ARCHIEF**  
 DOCUMENTATIEDIENST  
 NVHR

**REGENCY  
 MODEL TR-5**

Met dank aan Jef Bos



**TRADE NAME** Regency Model TR-5  
**MANUFACTURER** Regency Div., I. D. E. A., Inc., 7900 Pendleton Pike, Indianapolis 26, Ind.  
**TYPE SET** Battery Operated Transistorized AM Receiver

**POWER SUPPLY** 9 Volts DC **RATING** 6MA @ 9 Volts DC  
**TUNING RANGE—BROADCAST** 535KC-1630KC

**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. Use an insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	Loop	262KC (400% 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.	"	535KC	Tuning gang fully closed	"	A4	"
3.	"	1630KC	Tuning gang fully open	"	A5	"
4.	"	1500KC	Tune to 1500KC signal	"	A6	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output. With tuning gang fully open, range should extend to 1630KC. If not, repeat steps 3 and 4.

**DISASSEMBLY**

1. With tuning dial in maximum counter clockwise position, remove center screw. Remove dial.
2. Remove volume control knob.
3. Remove 2 screws under tuning dial. Remove chassis from case.
4. Remove screw holding chassis spacer to front plate and tuning gang.
5. Remove 2 screws holding front plate to printed board bracket.
6. Remove antenna support clip from front plate.
7. Separate printed board from front plate in the same manner as opening a book.

**HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana**

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# PARTS LIST AND DESCRIPTIONS

REGE  
MODE

## TRANSISTORS

ITEM No.	USE	REGENCY PART No.	NOTES	ITEM No.	USE	REGENCY PART No.	NOTES
X1	Converter (2N172)	100-874-4		X4	Output (353)	100-875-7	Note 1
X2	1st. IF Amp. (2N145)	100-875-8		X5	Output (353)	100-875-7	Note 1
X3	2nd. IF Amp. - AF Amp. (2N145)	100-875-9					

Note 1. X4 and X5 must be a matched pair.

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	REGENCY PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
CA	50	10	300-590						
B	50	10							
C	15	3							
C2	2	3	300-473-1	XFP6V2	NL2-3	TT6X2	ML2-6		TE-1051

## 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		REPLACEMENT DATA						NOTES	
	CAP.	VOLT.	REGENCY PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.		SPRAGUE PART No.
C3	288		100-771-1							2% 10% 5% N2200 10% 5% N3300
C4	10		100-772-5	NP0-SI 10	TCZ-10	C10Q1C	TCO-10	ZT-541	5TCC-Q1	
C5	180		100-963-1							
C6	6.8		100-772-8	NP0-SI 6.8	TCZ-6R8	C10V68C	TCO-6.8	ZT-5568	5TCCB-V68	
C7	270		100-963-2							
C8	1000		20-075-21	SI 1000	D6-102	LT6D1	GP-1000	UC-531	5GA-D1	
C9	50000		100-772-7	BPD-05	DF-503					

## CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES	
	RESISTANCE	WATTS	REGENCY PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.		MALLORY PART No.
R1	2000Ω		300-621-1					Volume $\updownarrow$ Switch

## RESISTORS

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

ITEM No.	RATING		REPLACEMENT DATA		NOTES	ITEM No.	RATING		REPLACEMENT DATA		NOTES
	OHMS	WATT	REGENCY PART No.	IRC PART No.			OHMS	WATT	REGENCY PART No.	IRC PART No.	
R2	3900Ω			BTS-3900		R3	27Ω			BTS-27	

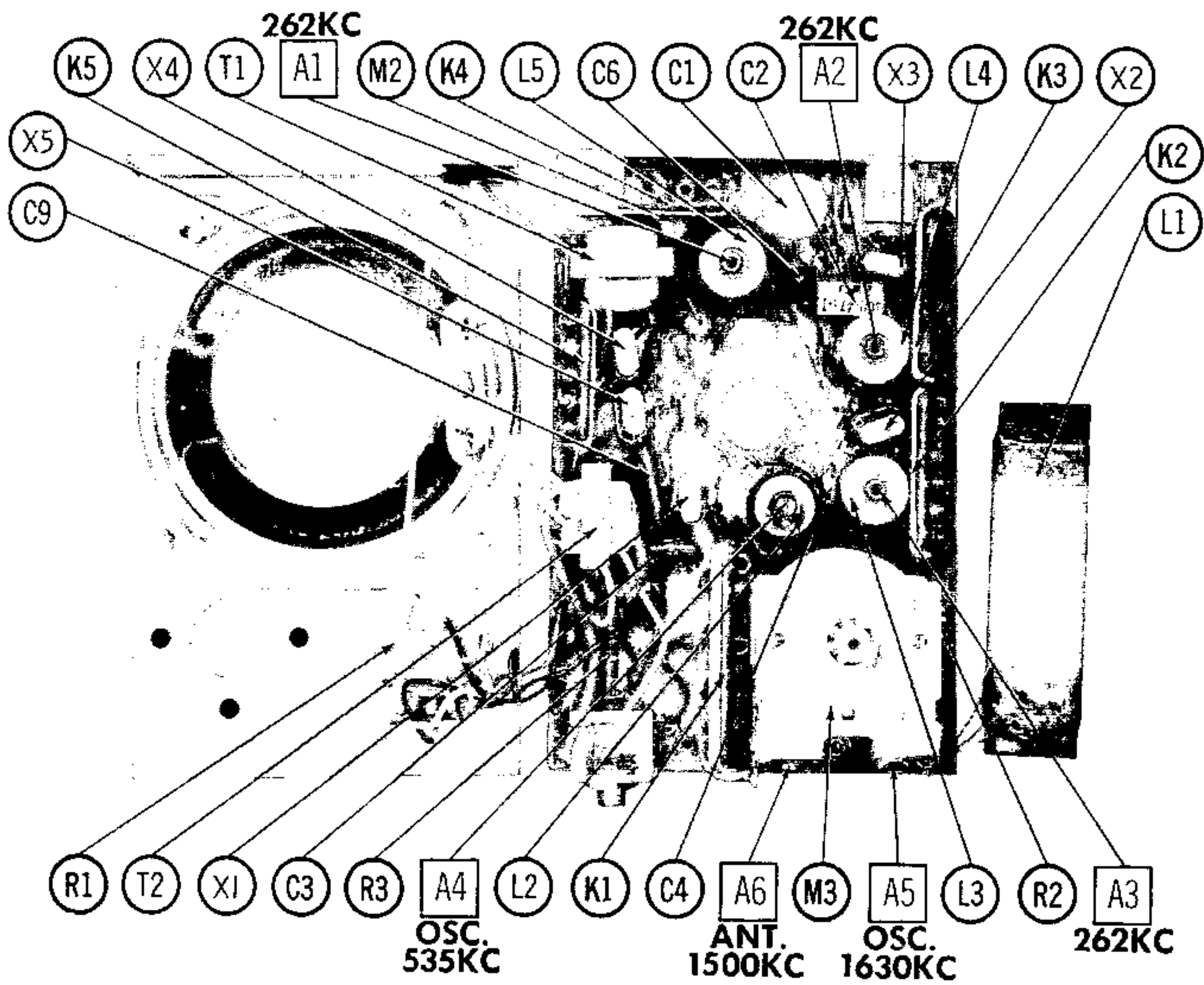
## TRANSFORMER (DRIVER)

ITEM No.	Turns Ratio		REPLACEMENT DATA					NOTES	
	PRI.	SEC.	REGENCY PART No.	Haldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.		Triad PART No.
T1	1.5:	1	300-620				TR-3 ①		① Do not use tap on primary winding.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES	
	PRI.	SEC.	REGENCY PART No.	Haldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.		Triad PART No.
T2	712Ω	12Ω	300-619				TR-20		

**CHASSIS—TOP VIEW**



# PARTS LIST AND DESCRIPTIONS (Continued)

## SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				REGENCY PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	3"	PM	12Ω	300-606		

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		REGENCY PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	Loop Stick	300-622	14-9001			
L2	Osc. Coil	300-553				
L3	1st. IF	300-555-4				
L4	2nd. IF	300-555-4				
L5	3rd. IF	300-555-5				

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	REGENCY PART No.	REPLACEMENT DATA
K1	Osc. -Mixer	20000MMF, 120MMF, 1000MMF, 10000MMF, 12K, 56K, 2200Ω, 470Ω	100-911	Erie 708-01
K2	1st. IF	39000MMF, 1000MMF, 220Ω, 68K, 470Ω	100-912	Erie 706-01
K3	2nd. IF	39000MMF, 12K, 1000Ω, 220Ω	100-913	Erie 706-02
K4	Detector	10000MMF, 10000MMF, 39000MMF, 120Ω	100-914	Erie 704
K5	Audio	120Ω, 10Ω 68Ω 4700Ω	100-915	Erie 705-01

## BATTERIES

ITEM No.	VOLTAGE	REGENCY PART No.	REPLACEMENT DATA								NOTES
			BURGESS		EVEREADY		MALLORY		RAY-O-VAC		
			"A"	"B"	"A"	"B"	"A"	"B"	"A"	"B"	
M1	9V	100-876		2N6		246		M-1602		1602	

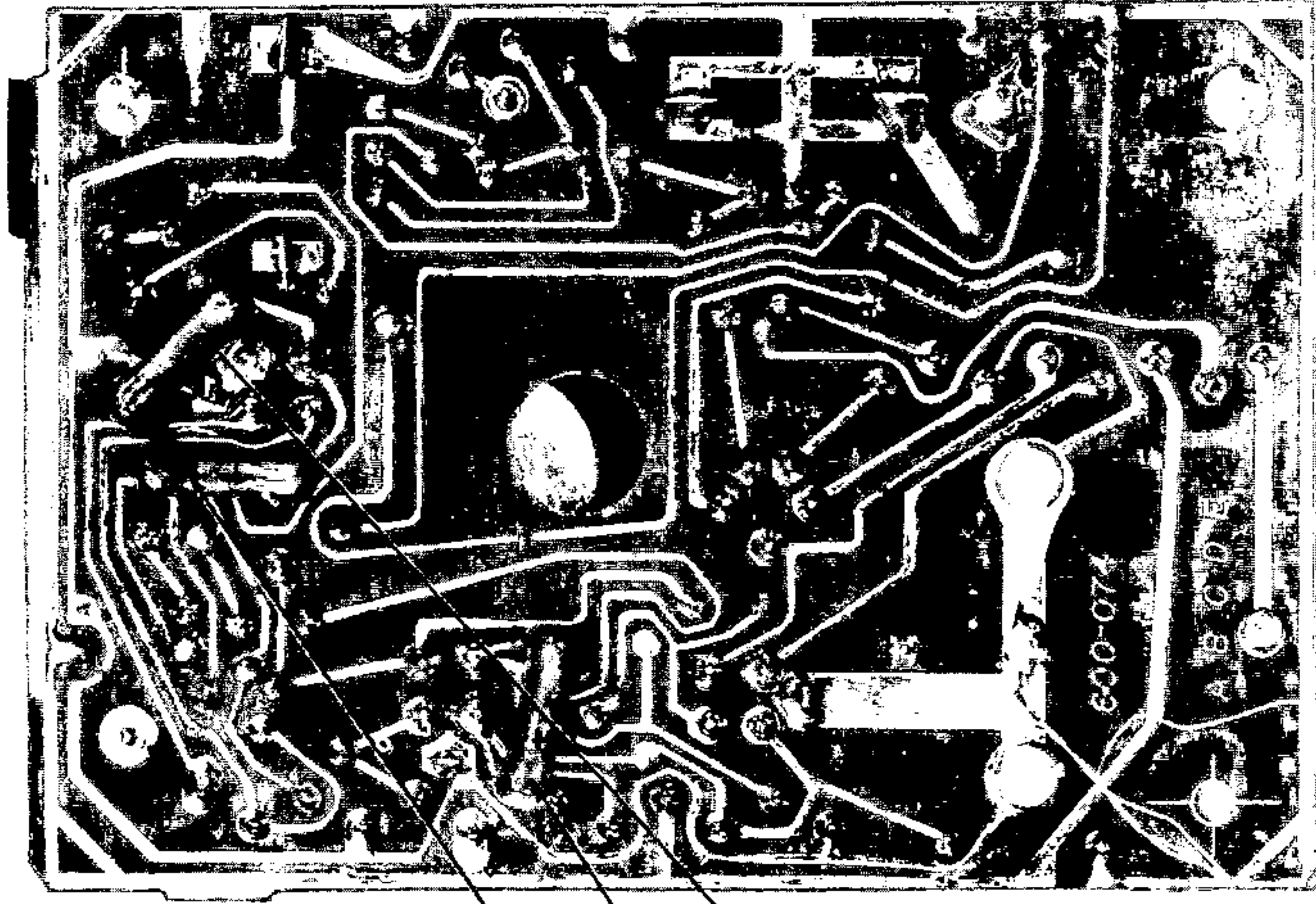
## CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA		NOTES
		REGENCY PART No.	SYLVANIA PART No.	
M2	TS-117	100-773	1N60	Audio Detector (Pigtall)

## MISCELLANEOUS

ITEM No.	PART NAME	REGENCY PART No.	NOTES
M3	Tuning Cap. Phone Jack Printed Board Knob Knob Knob Screw Case	300-624 300-434-2 600-074 100-732 100-924 100-734 100-964	2 Gang (14-140MMF, 10-135MMF)  Tuning On-off, volume Tuning Specify color

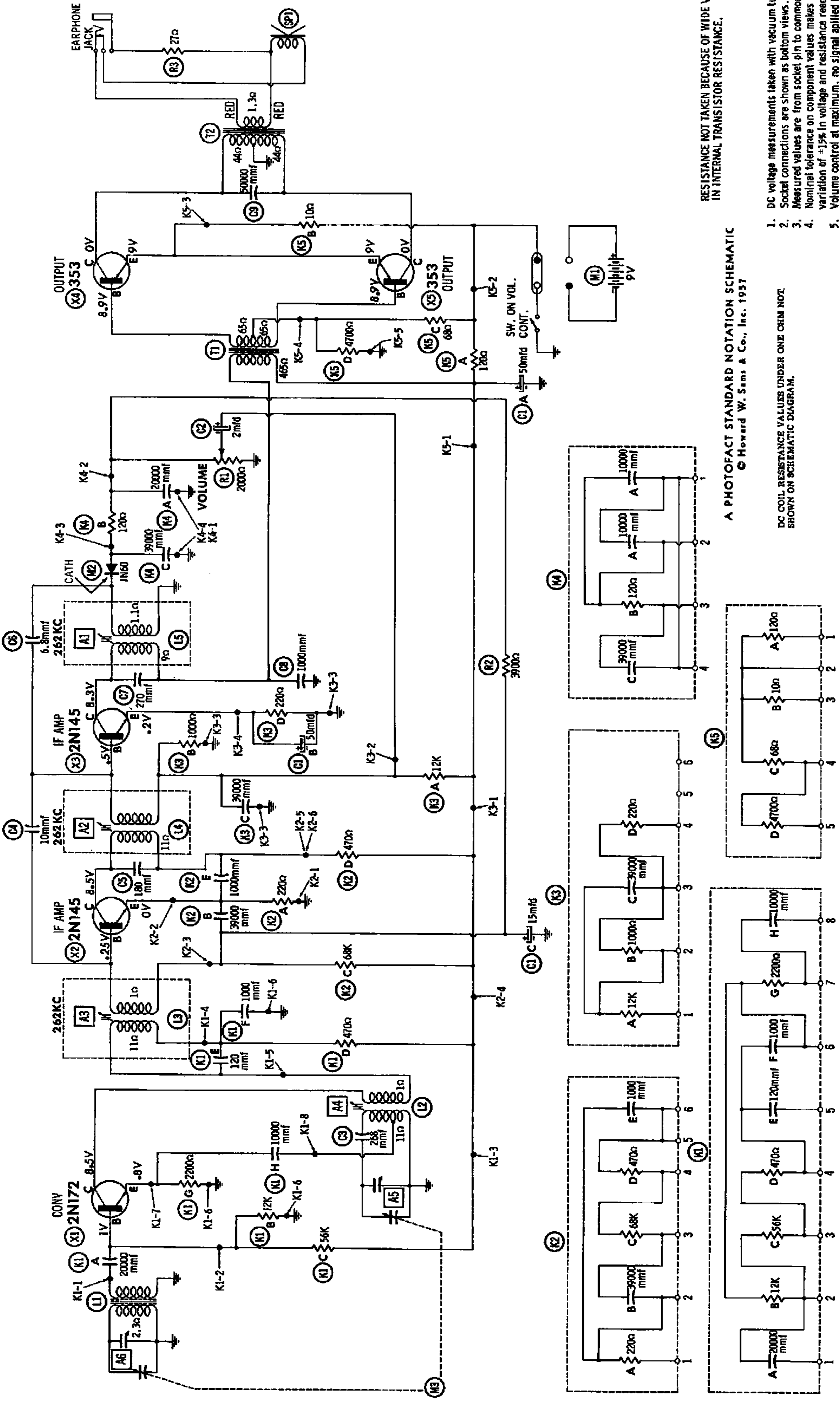
**CHASSIS—BOTTOM VIEW**



C7

C5

C8



RESISTANCE NOT TAKEN BECAUSE OF WIDE VARIATIONS IN INTERNAL TRANSISTOR RESISTANCE.

A PHOTOFAST STANDARD NOTATION SCHEMATIC  
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1. DC voltage measurements taken with vacuum tube voltmeter.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
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.

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

