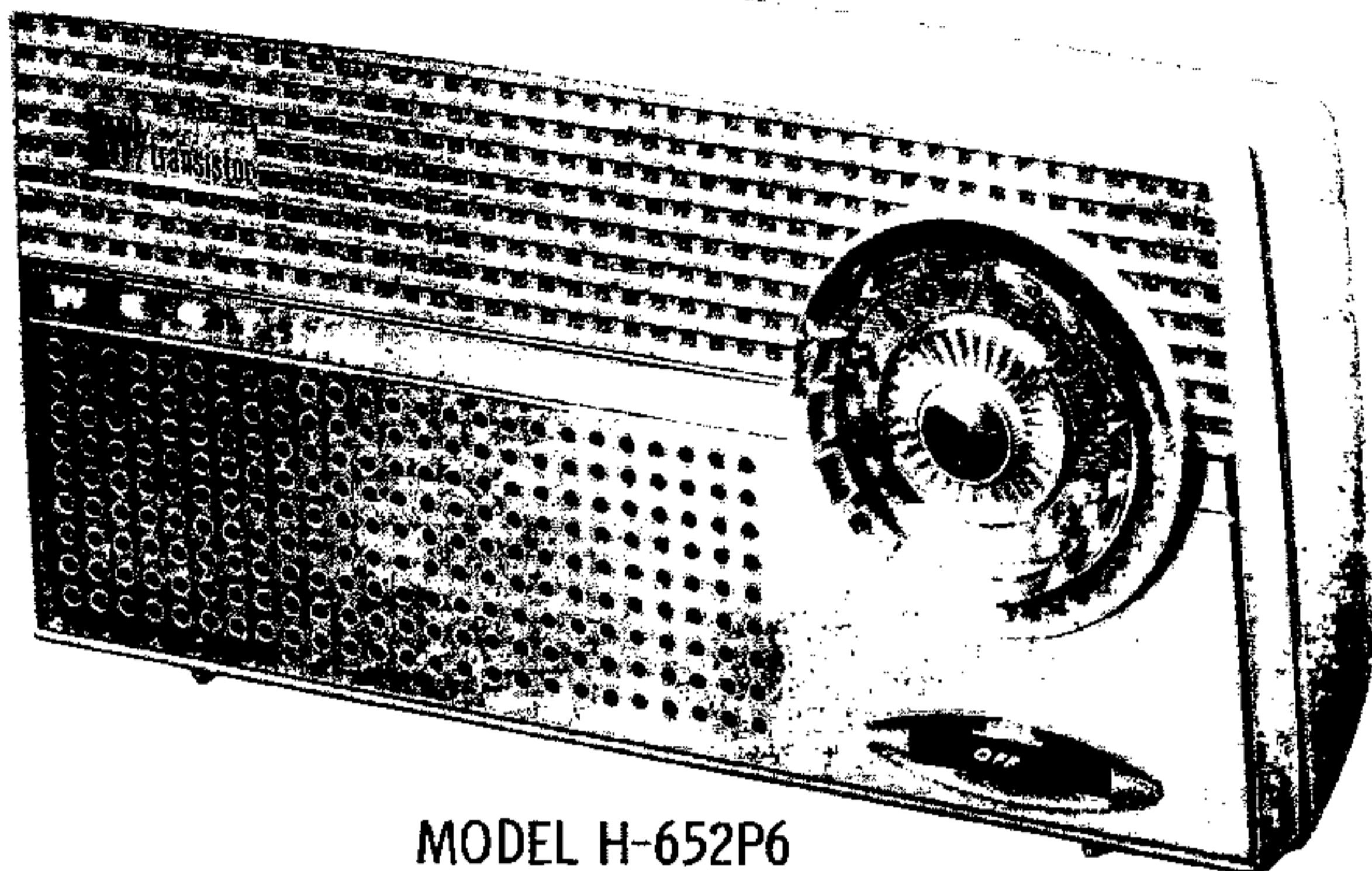




Met dank aan Jef Bos



MODEL H-652P6

TRADE NAME	Westinghouse Models H-651P6, H-652P6, H-653P6 (Ch. V-2278-4)		
MANUFACTURER	Westinghouse Electric Corp., TV-Radio Div., Metuchen, N. J.		
TYPE SET	Battery Operated Portable AM Transistorized Receiver		
POWER SUPPLY	9 Volts DC	RATING	7.5 MA @ 9 Volts DC (No Signal, MINIMUM Volume)
TUNING RANGE—BROADCAST	540-1600KC		8.5 MA @ 9 Volts DC (Signal, Normal Volume)

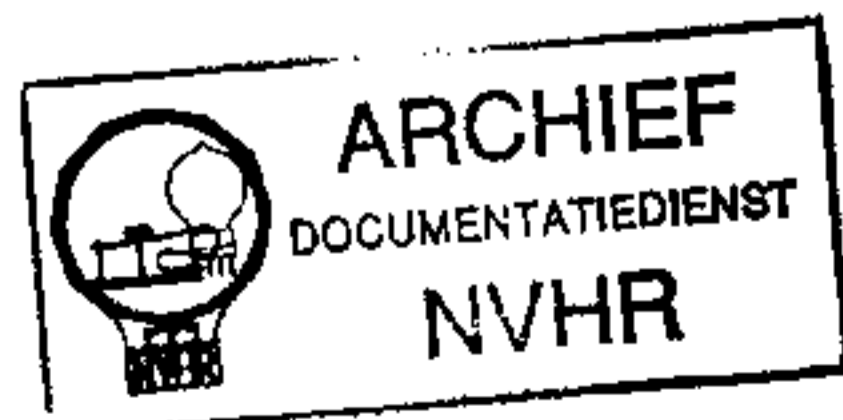
ALIGNMENT INSTRUCTIONS

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. Use an insulated alignment screwdriver for adjusting.						
DUMMY ANTENNA	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.	"	1625KC	"	"	A4	" " "
3.	"	600KC	600KC	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output while rocking tuning gang thru 600KC signal. Repeat Steps 2 & 3.
4.	"	1400KC	Tune to 1400KC signal.	"	A6	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.

DISASSEMBLY INSTRUCTIONS

1. Remove screw from center of tuning knob. Hold knob to prevent straining tuning capacitor. Remove knob.
2. Loosen screw on back cover. Remove back.
3. Remove self tapping screw from tuning capacitor end of printed board.
4. Slide printed board toward tuning capacitor end of case to free upper end of speaker bracket from plastic lip.
5. Raise board over lip and remove from case.

Ned. Ver. v. Historie v/



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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 H653

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H-652P6, H-653P6 (Ch. V-2278-4)

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	2N252	Converter			2N486		PNP NPN NPN PNP PNP PNP
X2	2N253	1st IF Amplifier	2N438				
X3	2N254	2nd IF Amplifier	2N438				
X4	2N403 *	Driver			2N362		
X5	2N185	Output			2N362		
X6	2N185	Output			2N362		

* Alternate type #2N185.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	Westinghouse PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1	40	12	218V012H01	XPP-12040	NL50-10	TT15X40	ML40-15	MQ-0130	R2329*
C2	10	3	218V012H11	XPP-3010	NL10-3	TT3X10	ML10-8		TE-1053
C3	5	12	218V012H09	XPP-12005	NL5-15	TT12X5	ML5-15		TE-1127
C4	40	12	218V012H01	XPP-12040	NL50-10	TT15X40	ML40-15	MQ-0130	R2329 *

* Non-Catalog Item

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	Westinghouse PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C5	4700		215V300H04	BPD-0047	DD-472	BYA10D47	UC-5247	TG-D50	
C6	1000		215V300H15	BPD-001	DD-102	BYA6D1	DC521	5GA-D1	
C7	10000		215V300H12	BPD-01	DD-103	BYA6S1	DC511	TG-S10	
C8	10000		215V300H12	BPD-01	DD-103	BYA6S1	DC511	TG-S10	
C9	2200		215V102A22	BPD-0022	DD-222	BYA10D22	UC-5222	5GA-D22	
C10	50000		215V303H03	BPD-05				TG-S50	
C11	20000		215V303H04	BPD-02	DD-203	BYB6S2		5HK-S2	
C12	1000		215V300H15	BPD-001	DD-102	BYA6D1	DC521	5GA-D1	
C13	50000		215V303H03	BPD-05				TG-S50	

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	Westinghouse PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	
R1	5000Ω	1/4	270V024H01		44S-5K-W			Volume & Switch

RESISTORS

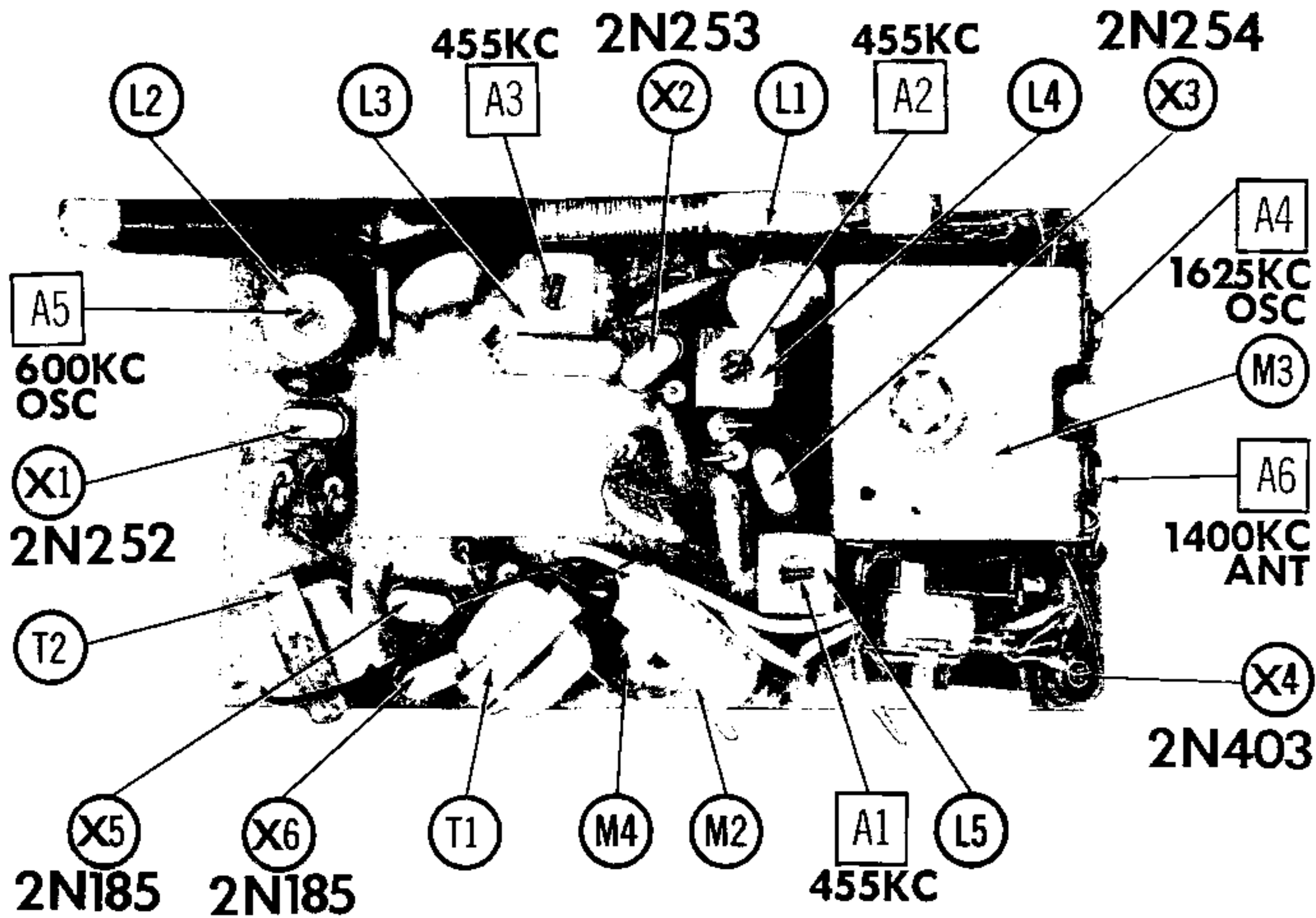
All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING		Westinghouse PART No.	NOTES	ITEM No.	RATING		Westinghouse PART No.	NOTES
	OHMS	WATT				OHMS	WATT		
R2	39K		250V223A93		R11	56K		250V225A63	
R3	8200Ω		250V228A22		R12	3300Ω		250V223A32	
R4	4700Ω		250V224A72		R13	22K		250V222A23	
R5	100Ω		250V221A01		R14	1000Ω		250V221A02	
R6	1000Ω		250V231A02		R15	6800Ω		250V226A82	
R7	15K		250V221A53		R16	100Ω		250V221A01	
R8	1000Ω		250V221A02		R17	10Ω		250V221A00	
R9	470Ω		250V224A71		R18	220Ω		250V232A21	
R10	1500Ω		250V221A52						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		Westinghouse PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	Ram PART No.	
L1	Loop Stick	310V0121102					
L2	One Coil	230V0201101					
L3	1st IF	230V0141101					
L4	2nd IF	230V0141101					
L5	3rd IF	230V0141102					

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
	PRI.	SEC.	Westinghouse PART No.	Halldorson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	
T1	2.5	:1	430V024H01					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES	
	PRI.	SEC.	Westinghouse PART No.	Halldorson PART No.	Merit PART No.	Ram PART No.	Stancor PART No.		Thordarson PART No.
T2	1450Ω CT	12Ω	430V025H01						

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	Westinghouse PART No.	QUAM PART No.	
SPI	2 3/4"	PM	12Ω	570V004M01		

BATTERIES

ITEM No.	VOLTAGE	Westinghouse PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	9V			P6		226		M-1600	

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		Westinghouse PART No.	CBS PART No.	SYLVANIA PART No.	
M2	1N295	296V002H01	1N60	1N295	Detector (Pigtail) Alternate Type 1N87G

MISCELLANEOUS

ITEM No.	PART NAME	Westinghouse PART No.	NOTES
M3 M4	Tuning Cap. Jack Printed Board	330V005H02 754V008H01 V-2278-4	Two gang (Ant. 12-135mmf, Osc. 12-93mmf) Earphone

CABINETS & CABINET PARTS

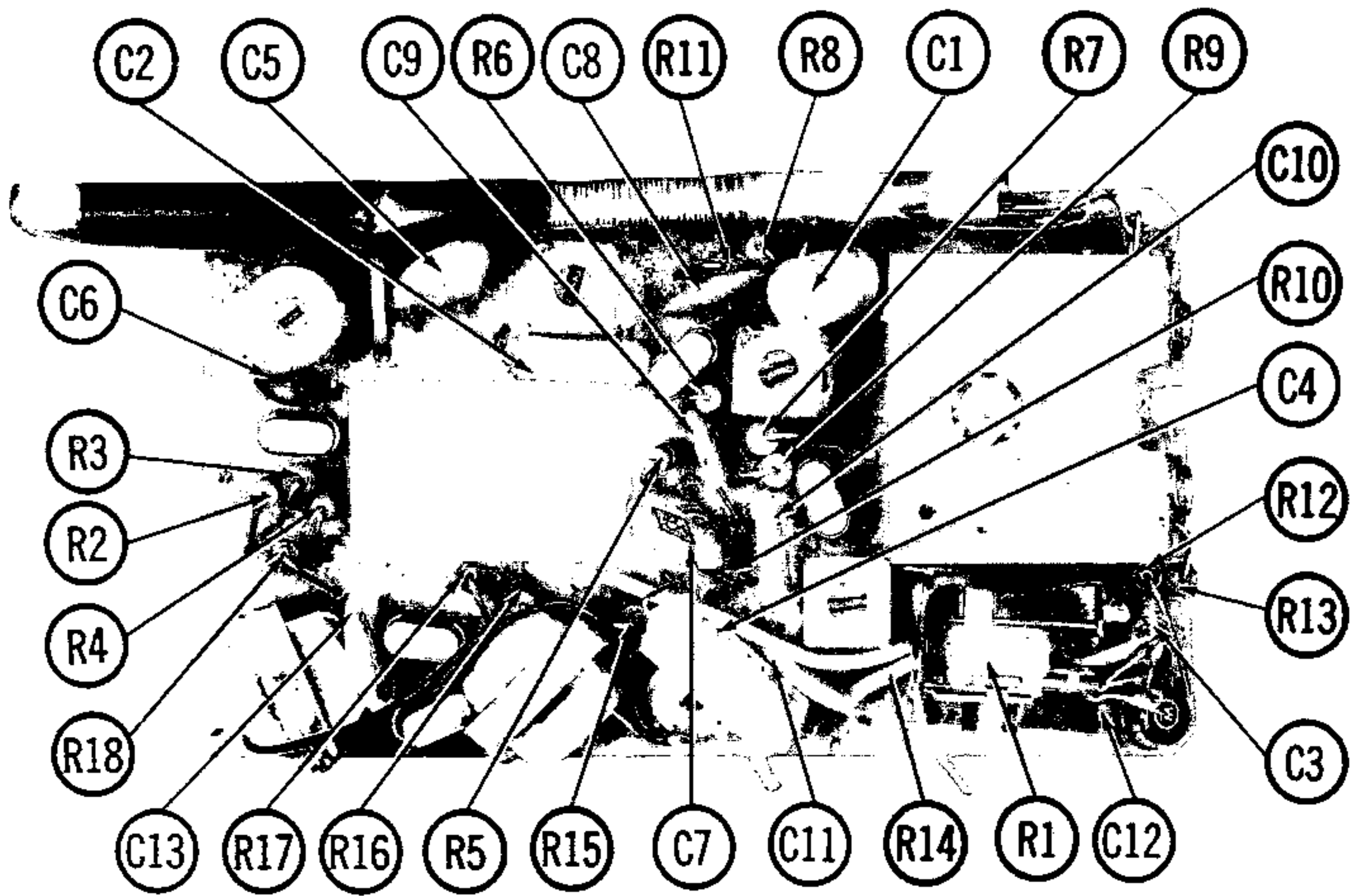
(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

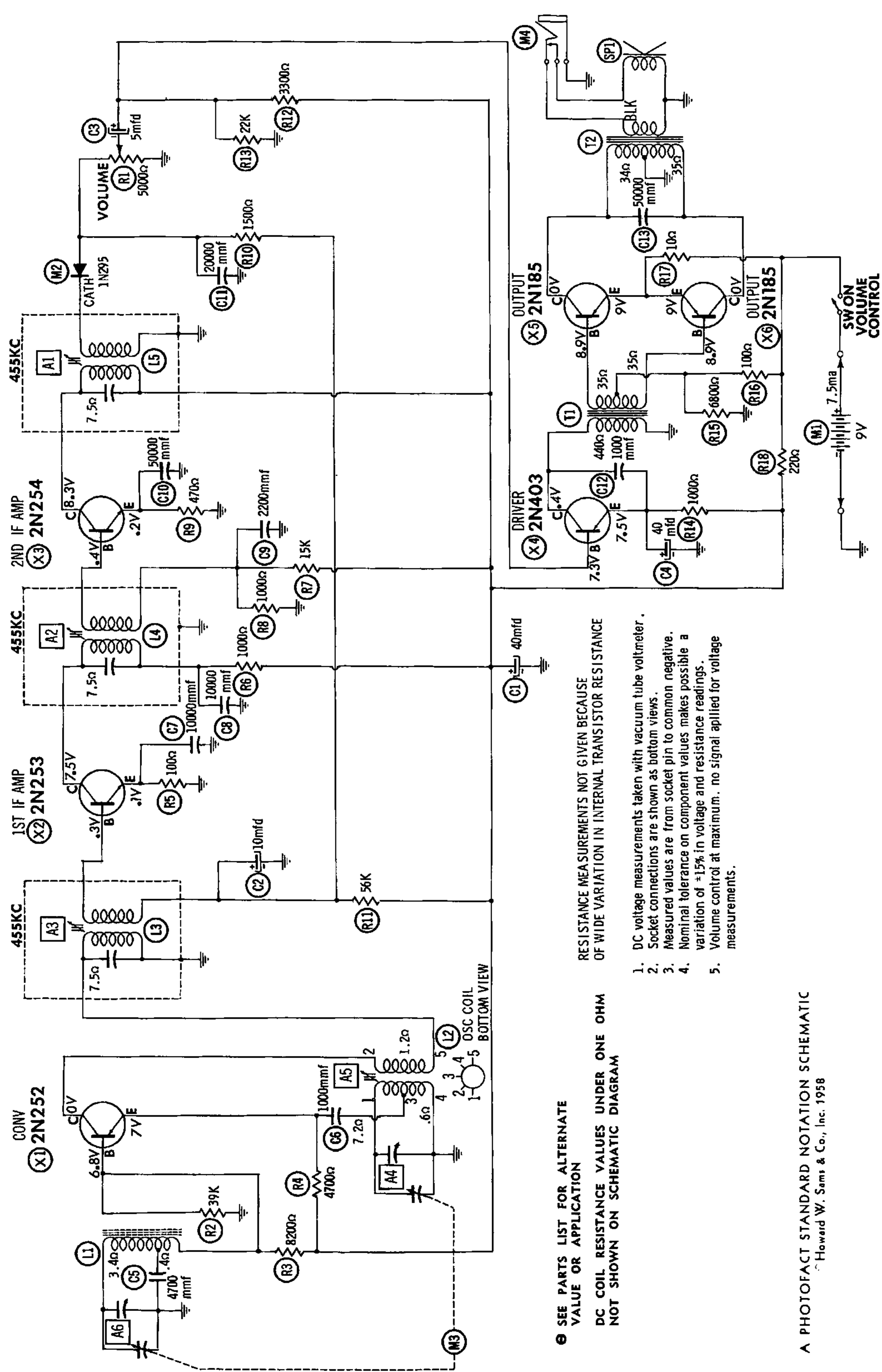
NAME	PART NO.	DESCRIPTION
Knob	550V079H01	Tuning
Knob	550V017H01	On-Off, Volume
Cabinet	513V025H02	Less Ring, Insignia, Stiffener, and Escutcheon, Model H-652P6
Cabinet	513V025H01	Less Ring, Insignia, Stiffener, and Escutcheon, Model H-651P6
Cabinet	513V025H03	Less Ring, Insignia, Stiffener, and Escutcheon, Model H-653P6

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





SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

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

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

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.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

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