

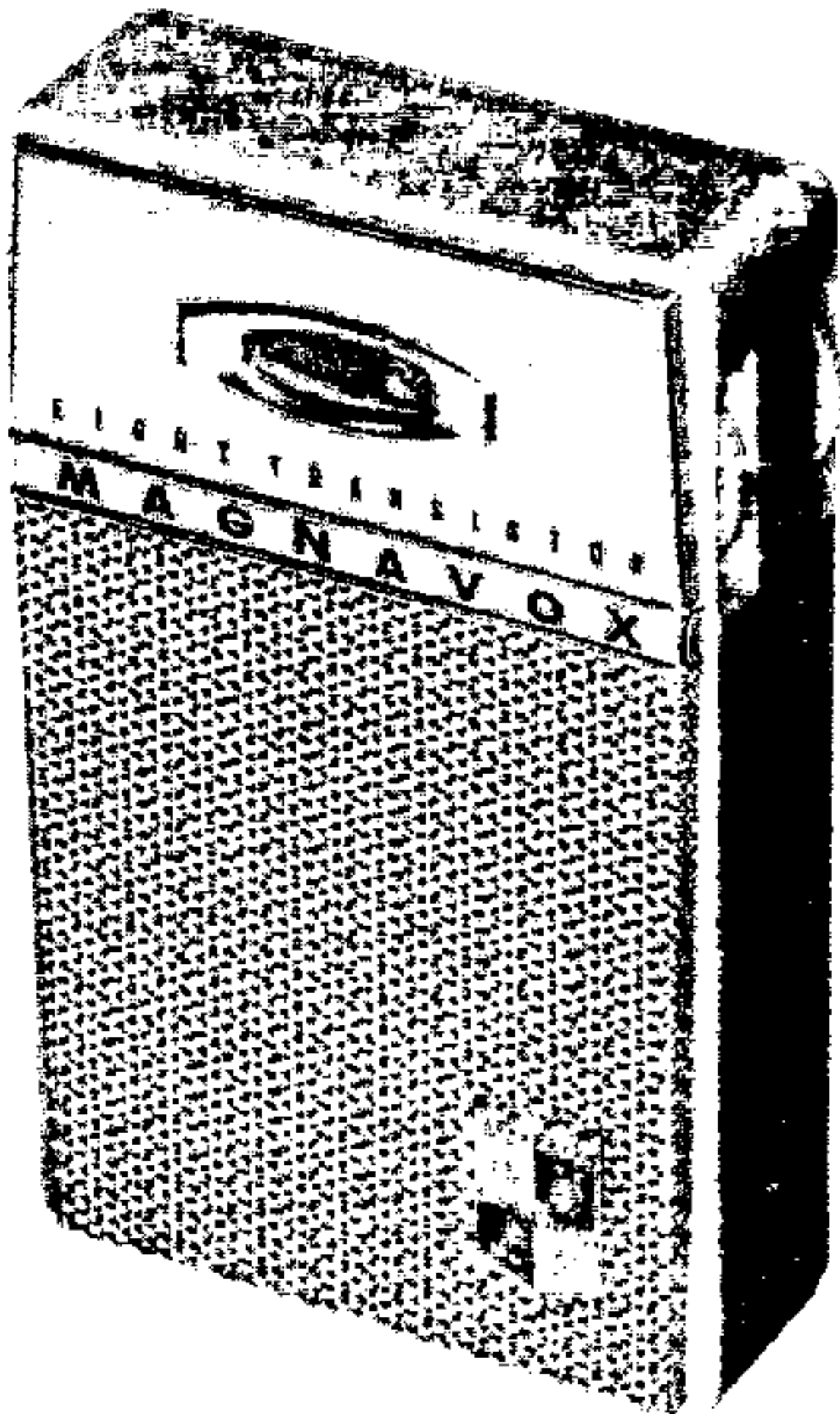
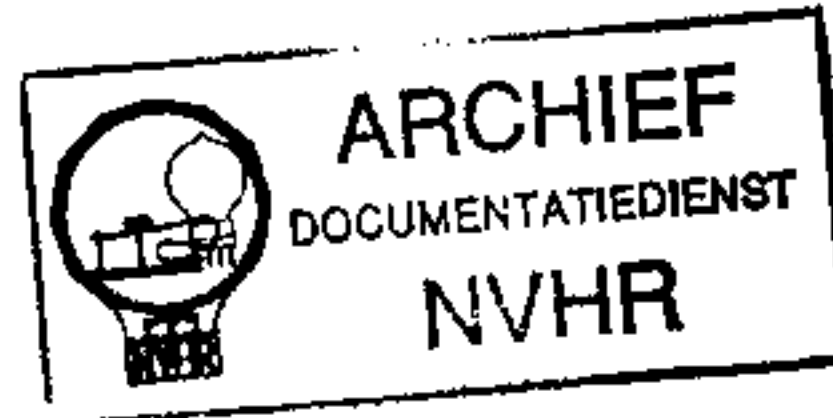
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with CIRCUITRACE

MAGNAVOX MODEL AM-80

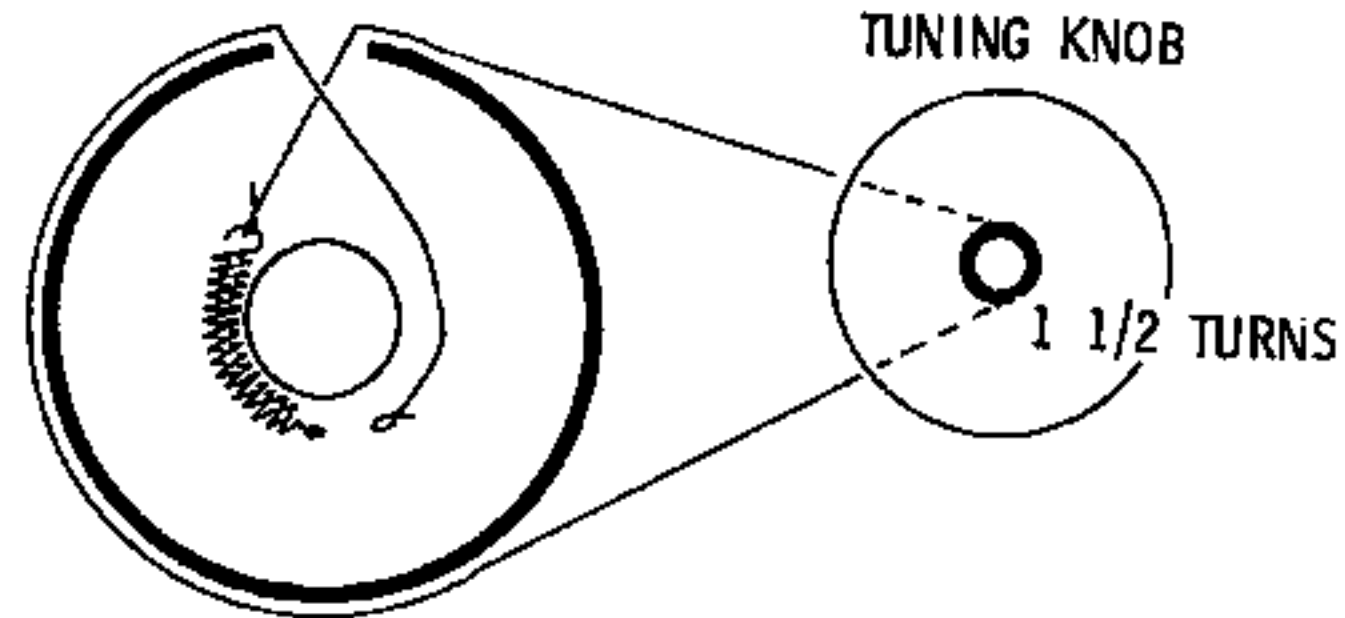
Met dank aan Jef Bos

Ned. Ver. v. Historie v/d Radio



DRIVE CORD STRINGING

DRUM FULLY CLOCKWISE



FRONT VIEW

TRADE NAME	Magnavox Model AM-80
MANUFACTURER	The Magnavox Co., 2131 Bueter Road, Fort Wayne 4, Indiana
TYPE SET	Battery Operated Transistorized Portable AM Receiver
POWER SUPPLY	9 Volts DC
TUNING RANGE	BROADCAST 535-1605KC
	RATING 7 MA @ 9 Volts DC (No Signal, Min. Volume) 15 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.

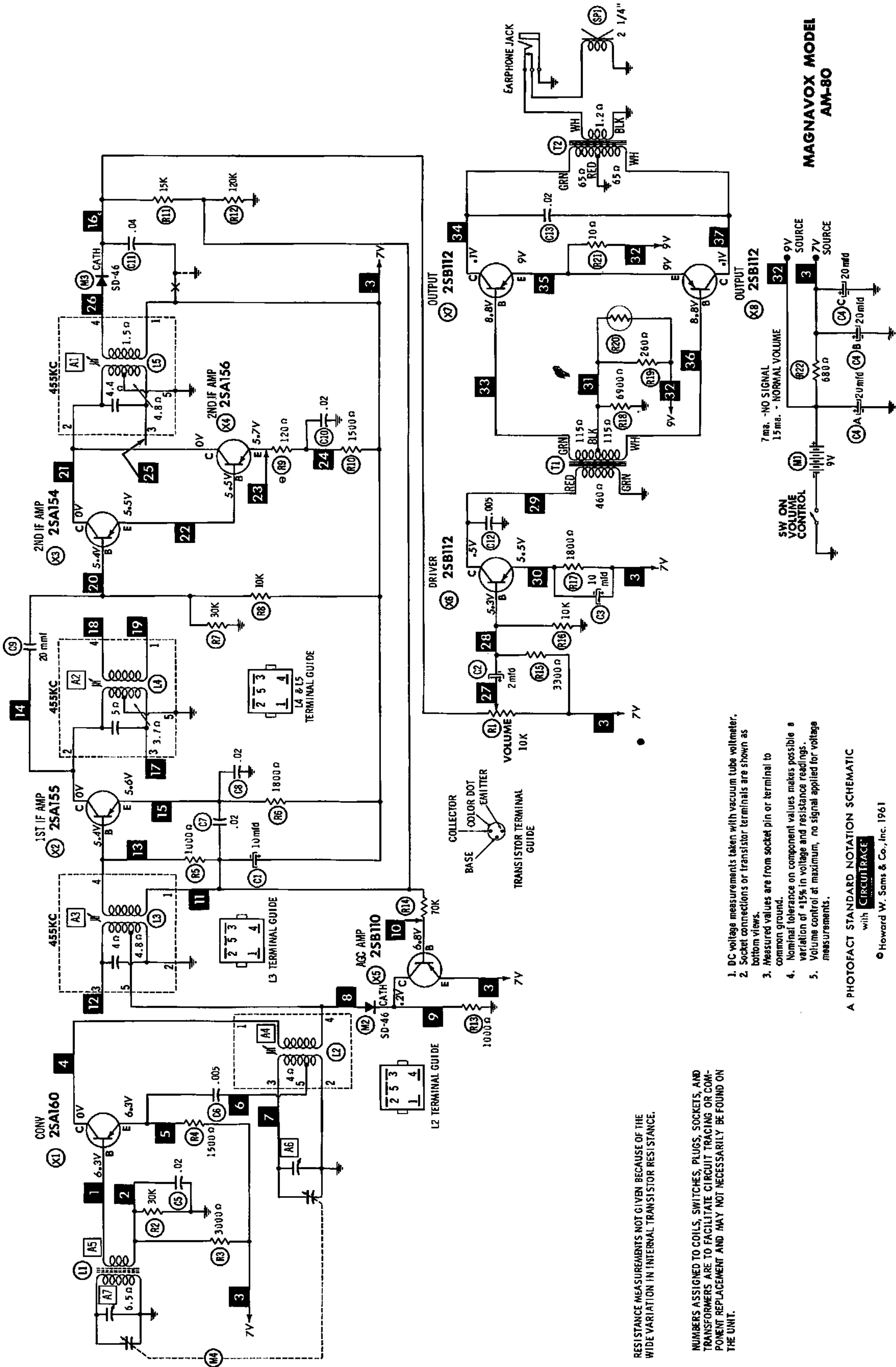
Suggested Alignment Tools: A1, A2, A3, A4 GENERAL CEMENT #8607, 9291, 9294
WALSCO #2520, 2522, 2523, 2524, 2534, 2537
A6, A7 GENERAL CEMENT #5000, 5003, 5066, 8276, 8290, 9087, 9089
WALSCO #2512, 2525, 2528

	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.	"	535KC	Tuning gang fully closed	"	A4, A5	Adjust for maximum output. A5 is adjusted by moving antenna coil turns along ferrite core. Wax turns in place.
3.	"	1600KC	1600KC	"	A6, A7	Adjust for maximum output. Repeat steps 2 and 3.

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 KF844

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MAGNAVOX MODEL AM-80

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.

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.

A PHOTOFACT STANDARD NOTATION SCHEMATIC with CIRCUITRACE

PARTS LIST AND DESCRIPTIONS

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA		NOTES
			RCA PART No.	RAYTHEON PART No.	
X1	28A160	Converter	2N412		* Alternate
X2	28A155	1st IF Amplifier	2N410		
	28A156 *	1st IF Amplifier			
	28A154 *	1st IF Amplifier			
X3	28A154	2nd IF Amplifier	2N410		
	28A156 *	2nd IF Amplifier			
X4	28A156	2nd IF Amplifier	2N410		
	28A154 *	2nd IF Amplifier			
X5	28B110	AGC Clamper	2N406		PNP
X6	28B112	Driver	2N406		PNP
X7	28B112	Output	2N406		PNP
X8	28B112	Output	2N406		PNP

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	MAGNAVOX PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	10	8	270049-1	PTT6	NLW10-6	MT1-5	TT3X10	MLV10-3	TE-1053
C2	2	12	270051-1	PTT49	NLW2-50	MT1-1	TT12X2	MLV2-12	TE-1121
C3	10	8	270049-1	PTT6	NLW10-6	MT1-5	TT3X10	MLV10-3	TE-1053
C4A	20	10	270056-1						
B	20	10							
C	20	10							

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	.02	#250340-1	C80V203AM	DA-203	H-05S2	CCD-502	TA-120	TG-820
C6	.005		C80V502AM	DM-502	H-05D5		TA-250	TG-D50
C7	.02		C80V203AM	DA-203	H-05S2		TA-120	TG-820
C8	.02		C80V203AM	DA-203	H-05S2	TA-120	TG-820	
C9	20		NPO-SI 20	TCZ-20	L10Q2	CCTO-200	CNO-422	10TCC-Q20
C10	.02		C80V203AM	DA-203	H-05S2	TA-120	TG-820	
C11	.04							
C12	.005		C80V502AM	DM-502	H-05D5	CCD-502	TA-250	TG-D50
C13	.02		C80V203AM	DA-203	H-05S2		TA-120	TG-820

Magnavox Part Number

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES	
	RESISTANCE	WATTS	MAGNAVOX PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.		MALLORY PART No.
R1	10K	1/4	220168-1					Volume & Switch

RESISTORS

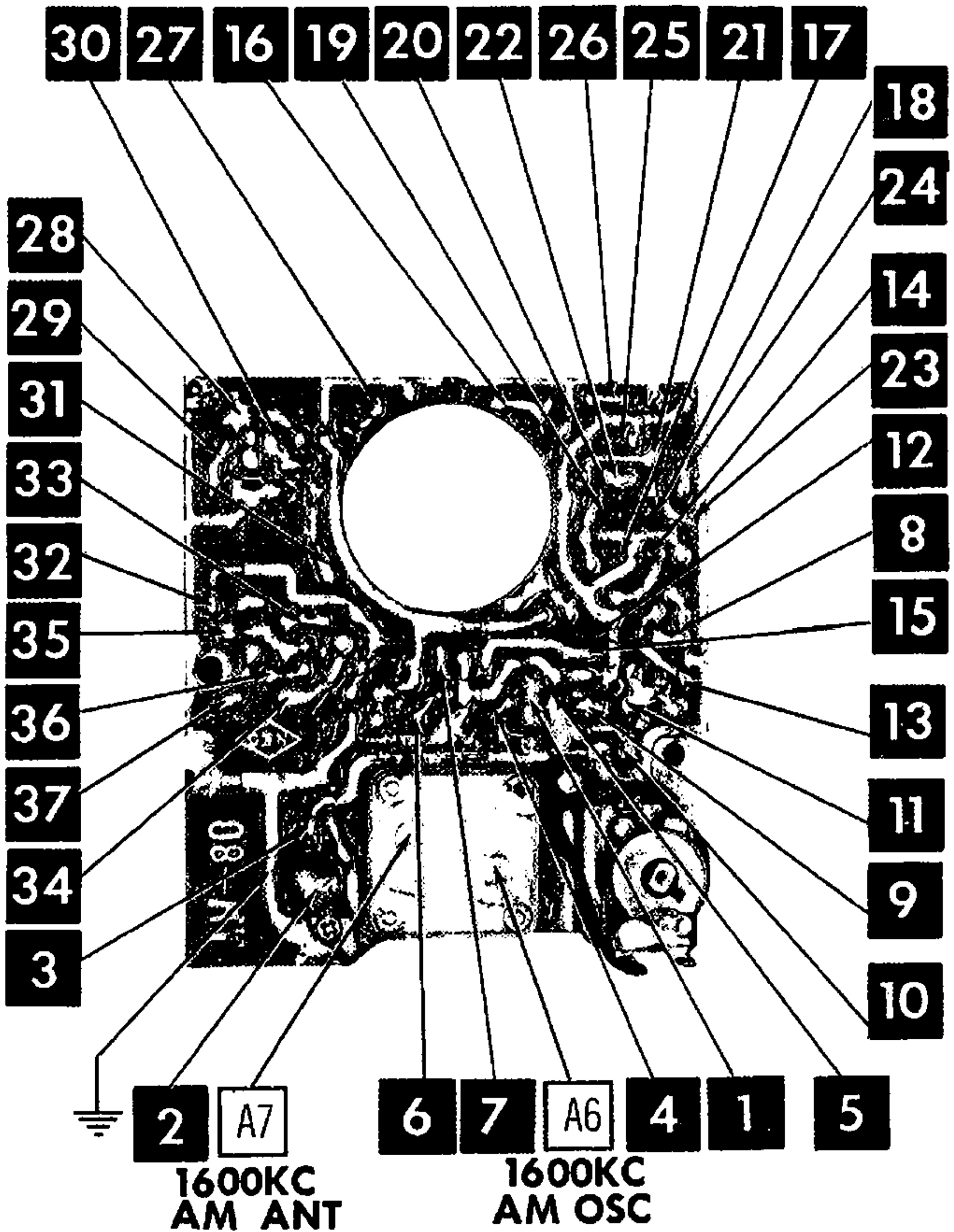
All wattages 1/2 watt, or less, unless otherwise listed.

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	30K				R13	1000Ω			
R3	3000Ω				R14	70K			
R4	1500Ω				R15	3300Ω			
R5	1000Ω				R16	10K			
R6	1800Ω				R17	1800Ω			
R7	30K				R18	6900Ω			
R8	10K				R19	260Ω			
R9	120Ω				R20	Temp. Comp.			
R10	1500Ω				R21	10Ω			
R11	15K				R22	680Ω			
R12	120K								

Note 1. Value will vary (0-120Ω) depending on transistor characteristics.

PRINTED BOARD

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PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		MAGNAVOX PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	Loopstick	360871-1					
L2	Osc.	360872-1					
L3	1st IF	360868-1					
L4	2nd IF	360869-1					
L5	3rd IF	360870-1					

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MAGNAVOX PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	1.5	1	320091-1					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MAGNAVOX PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	1400Ω CT	6-8Ω	320092-1					

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	MAGNAVOX PART No.	QUAM PART No.	
SP1	2 1/4"	PM	6-8Ω	580064-1		

BATTERIES

ITEM No.	VOLTAGE	MAGNAVOX PART No.	REPLACEMENT DATA						NOTES
			BURGESS		EVEREADY		MALLORY		
			"A"	"B"	"A"	"B"	"A"	"B"	
M1	9V	530064-1		2U6		216		M-1804	

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		MAGNAVOX PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
M2	SD-46	530063-1		1N80	AGC (Pigtail) Detector (Pigtail)
M3	SD-46	530063-1		1N60	

MISCELLANEOUS

ITEM No.	PART NAME	MAGNAVOX PART No.	NOTES
M4	Tuning Cap.	260159-1	2 Gang

CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Dial Indicator	140476-1	
Knob	140473-1	Tuning, Black
Knob	140473-2	Tuning, Turquoise
Knob	140474-1	Volume, Black
Knob	140474-2	Volume, Turquoise
Cabinet Back	140472-1	Black
Cabinet Front	140471-1	Black
Cabinet Back	140472-2	Turquoise
Cabinet Front	140471-2	Turquoise
Leather Case	400312-1	
Earphone Case	400313-1	
Carrying Strap	400317-2	

