

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

RESISTANCE READINGS

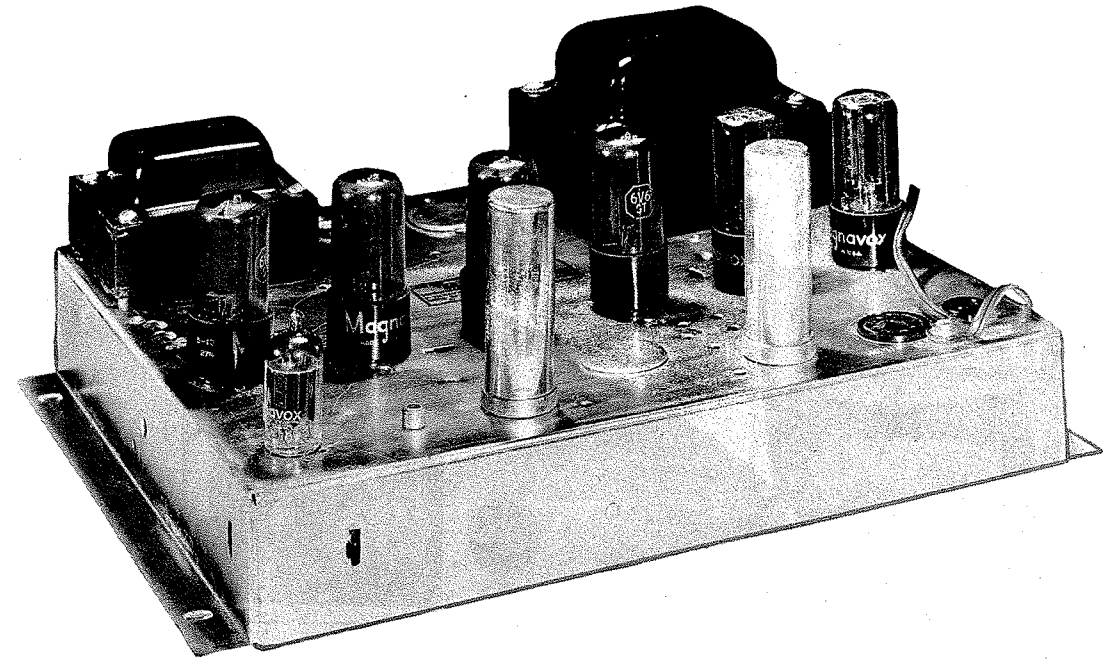
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	12AX7	↑ 570KΩ	470KΩ	3.5KΩ	175Ω	175Ω	↑ 970KΩ	20KΩ	8.2KΩ	175Ω
V 2	6V6GT	NC	175Ω	↑ 150Ω	↑ 50Ω	240KΩ	TP	175Ω	125Ω	
V 3	6V6GT	NC	175Ω	↑ 150Ω	↑ 50Ω	240KΩ	NC	175Ω	125Ω	
V 4	6V6GT	NC	175Ω	↑ 150Ω	↑ 50Ω	220KΩ	TP	175Ω	125Ω	
V 5	6V6GT	NC	175Ω	↑ 150Ω	↑ 50Ω	220KΩ	NC	175Ω	125Ω	
V 6	5Y3GT	NC	70KΩ	NC	NC	22Ω	NC	70KΩ		
V 7	5Y3GT	NC	70KΩ	NC	22Ω	22Ω	NC	70KΩ		

- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values make possible a variation of ± 15% in voltage and resistance readings.
- All controls at minimum, proper output load connected.

↑ MEASURED FROM PIN 9 OF V1.
NC—NO CONNECTION.
TP—TIE POINT.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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MAGNAVOX
CHASSIS AMP-142AB



MAGNAVOX
CHASSIS AMP-142AB

TRADE NAME	Magnavox Chassis Amp -142AB
MANUFACTURER	Magnavox Co., 2131 Bueter Road, Fort Wayne, Ind.
TYPE SET	AC Operated 20 Watt Audio Amplifier
TUBES (Seven)	Types 12AX7 AF Amp. -Phase Inv., (4) 6V6GT Output, (2) 5Y3GT Rectifier
POWER SUPPLY	110-120 Volts AC-50-60 Cycles RATING 1.26 Amp. @ 117 Volts AC

HOWARD W. SAM'S & CO., INC. • Indianapolis 5, Indiana

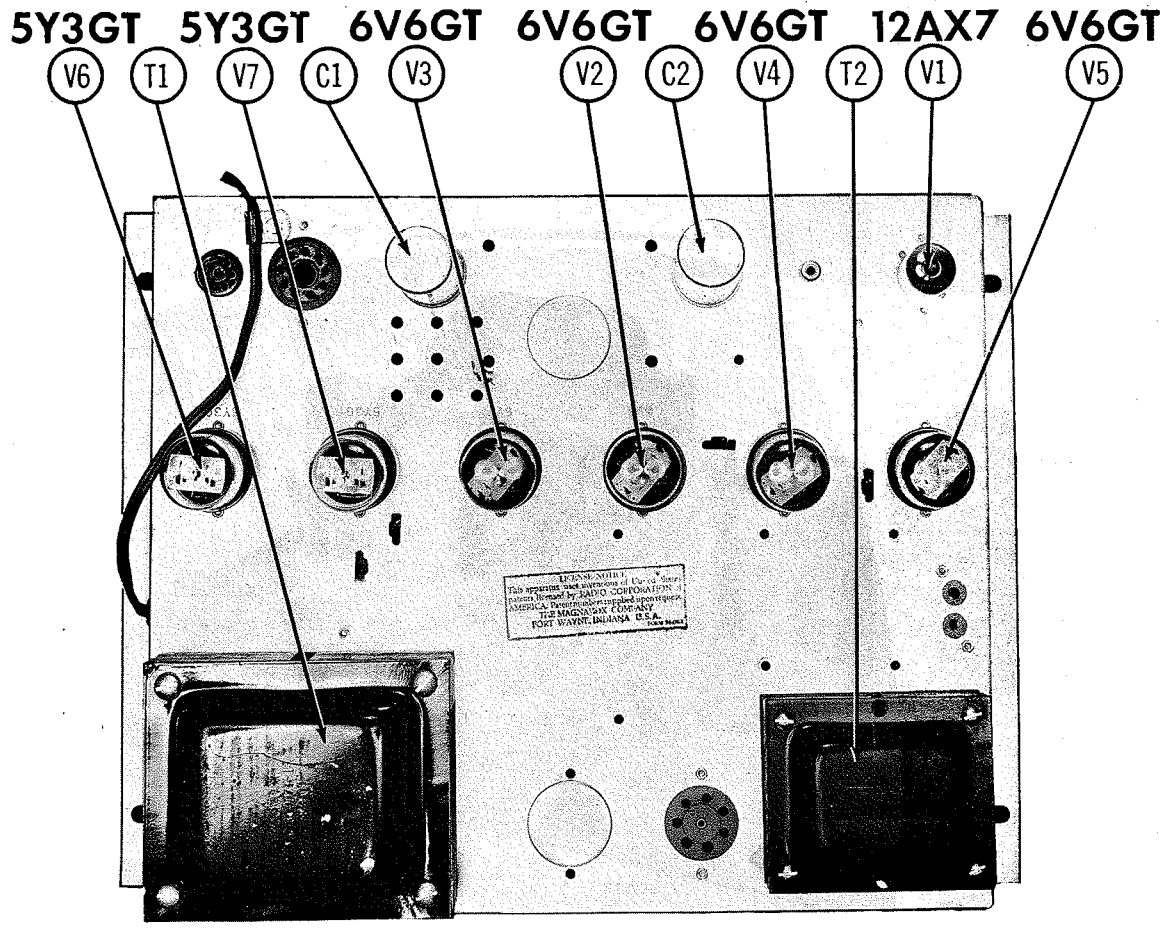
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**PARTS LIST AND DESCRIPTIONS
TUBES (GENERAL ELECTRIC, SYLVANIA)**

MAGNAVOX
Chassis Amp-142AB

CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA		NOTES
		MAGNAVOX PART No.	STANDARD REPLACEMENT	
V1	AF Amp.—Phase Inv.	12AX7	12AX7	
V2	Audio Output	6V6GT	6V6GT	
V3	Audio Output	6V6GT	6V6GT	
V4	Audio Output	6V6GT	6V6GT	
V5	Audio Output	6V6GT	6V6GT	
V6	Rect.	5Y3GT	5Y3GT	
V7	Rect.	5Y3GT	5Y3GT	



ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VOLT.	REPLACEMENT DATA					SPRAGUE PART No.
			MAGNAVOX PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	
C1A	30	475	270023-2		F2259	TM-3010-450		S-295
C1B	10	475			F2259	TM-3010-450		FM-4710
C2A	30	475	270023-2	PRS25V25				S-295
C2B	10	475						FM-4710
C3	20	25	270027-2		TC26	TD-25-25		FM-0225

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 CAP.	VOLT.	REPLACEMENT DATA					NOTES
			MAGNAVOX PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	
C4	220	600	250201-13	S1220	TP39	GP2K-221	UC-5322	5GA-T22
C5	.1	600	P668N-1	DF-104	CUB8P1		PT001	6TM-P1
C6	.1	600	P668N-1	DF-104	CUB8P1		PT001	6TM-P1
C7	.0022	600	250201-3	S2200	CUB6D22	GP2-338-222	PT6222	6TM-D22
C8	10000	1000	250219-2	DD-103	DD-103			10HK-S1
C9	10000	1000	250219-2	DD-103	DD-103			10HK-S1
C10	10000	1000	BPD-01		XO82	811-01	DC-511	5HK-S1

Note 1. Not used in some versions.

RESISTORS

ITEM No.	RATING OHMS	WATT	REPLACEMENT DATA		NOTES
			MAGNAVOX PART No.	IRC PART No.	
R1	470K	1/2	230104-94	BTS-470K	
R2	470K	1/2	230104-94	BTS-470K	
R3	3300Ω	1/2	230104-94	BTS-3300	
R4	220	1/2	230104-54	BTS-220	
R5	20K 5%	1/2	230094-190	BTS-20K 5%	
R6	470K	1/2	230104-94	BTS-470K	
R7	100K	1/2	230105-86	BW-1-100K	
R8	8200Ω	1/2	230104-73	BTS-8200	

ITEM No.	RATING OHMS	WATT	REPLACEMENT DATA		NOTES
			MAGNAVOX PART No.	IRC PART No.	
R9	220K	1/2	230104-90	BTS-220K	
R10	100Ω	1/2	230104-50	BTS-100	
R11	220K	1/2	230104-90	BTS-220K	
R12	100Ω	1/2	230104-50	BTS-100	
R13	125Ω	1/2	240021-11		
R14	2700Ω	1/2	230104-67	BTS-2700	
R15	100Ω	1/2	230104-50	BTS-100	
R16	100Ω	1/2	230104-50	BTS-100	

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA			Tried PART No.
		MAGNAVOX PART No.	Stancor PART No.	Thorderson PART No.	
T1	57VAC 5VAC @ 1.25A 1.90ADC @ 4A	300071-1	P-3077	P-8332	

① Tape 6.3V @ 1.2A, and .9A windings.
② Current reading on Sec. #3 will increase when tuner is added.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA			NOTES
		MAGNAVOX PART No.	Merit PART No.	Thorderson PART No.	
T2	3.7KΩ 4.3Ω Tag @ .38Ω RES.	330024-1F			① Alternate Audio Output

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		MAGNAVOX PART No.	MEISSNER PART No.	MILLER PART No.	
L1	RF Choke	360575-1	19-1002	4808	2 Microhenries
L2	RF Choke	300719-1	19-1002	4608	2 Microhenries

FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA			Tried PART No.
	TOTAL DIRECT RESISTANCE	INDUCTANCE (1000 μH)	MAGNAVOX PART No.	Holderson PART No.	Stancor PART No.	
L3	1.90Ω	51H	320041-2	C5040	C-2898	28C41

① Drill one new mounting hole.

CHASSIS—BOTTOM VIEW

