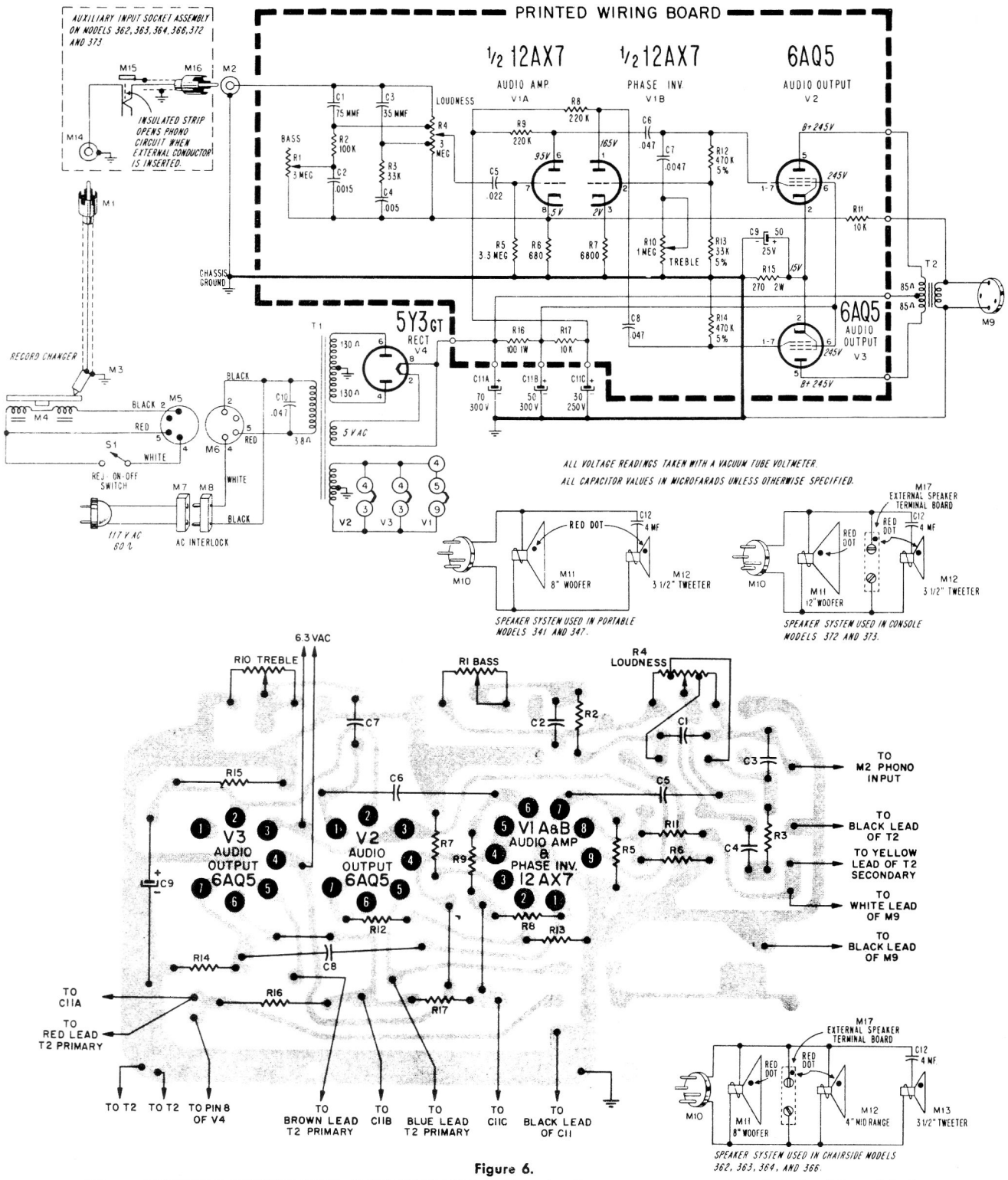

Figure 6.

View of PRINTED WIRING SIDE of 4T2 Hi-Fi Wiring Board. Gray area represents printed wiring; black symbols and line represent components and connections on opposite side. (Note: R1, R4, and R10, electrically part of wiring board, have control shafts physically mounted to metal chassis.)

AMPLIFIER CHECKS		
CONTROL SETTINGS FOR AMPLIFIER CHECKS		
Loudness Control Bass Control Treble Control	Fully Clockwise Mid Rotation Mid Rotation	
AMPLIFICATION CHECK		
AUDIO GENERATOR OUTPUT	Frequency	Volts in
	1000 Cycles	0.7 Volts
AMPLIFIER OUTPUT	Volts	Watts
	5 Volts	8 Watts
FREQUENCY RESPONSE CHECK		
AUDIO GENERATOR OUTPUT	Frequency	Volts in
	In steps between 20 to 40,000 Cycles	0.7 Volts
AMPLIFIER OUTPUT	Volts	Db
	5 Volts ±.25 v.	±1 Db

6240

AMPLIFICATION AND RESPONSE CHECK

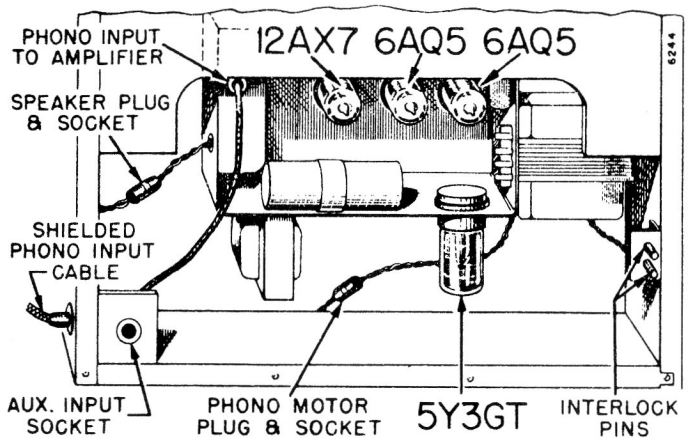

Figure 2. Rear View of Cabinet. Amplifier chassis installation shown.

The amplifier may be checked for gain and frequency response by using the tests outlined below.

Test Equipment Needed:

Audio Oscillator, preferably with flat output from 40 cycles to 40 kilocycles.

Vacuum Tube Voltmeter, preferably with decibel scale.

PROCEDURE: Connect record changer motor plug to socket (M6). Disconnect audio output plug (M10) and connect a 3.2 ohm, 10 watt resistive load across the secondary of T2. Disconnect audio input plug from socket (M2) on chassis. Unclamp **Tone Arm** from rest and move **Rej-On-Off** switch to "ON" position. (If record changer goes into change cycle and shuts off, move switch to "ON" position again.)

Connect audio oscillator ground lead to amplifier chassis. Connect audio oscillator signal lead to input lead of M2, audio input socket. Allow several minutes for oscillator and amplifier to warm up. Set **Loudness, Bass,** and **Treble** controls as shown in "AMPLIFIER CHECKS" table.

To check amplification, adjust audio oscillator output to 0.7 volts at 1,000 cycles, measured with the vacuum tube voltmeter, from socket M2 to chassis ground. Measure output voltage across 3.2 ohm resistive load.

To check frequency response, adjust audio oscillator output to 0.7 volts and change oscillator frequency in steps between 40 to 40,000 cycles, readjusting oscillator output to 0.7 volts each time a new frequency setting is made.

Compare amplifier output voltage with readings given in "AMPLIFIER CHECKS" table.

To service amplifier chassis after it is removed from cabinet, connect a jumper wire from red to white wires on phono motor socket (M6). AC power may then be applied to chassis by connecting interlock circuit.