PHASE INVERTER ADJUSTMENT (MA)

This adjustment should not be attempted unless the associated circuit has been repaired or tampered with, and then only with the proper equipment.

1. Connect an accurate low-distortion audio generator to the input jack.
2. Connect a 5 ohm 100W resistor to the speaker terminals (or common)
3. Connect an harmonic or intermodulation distortion analyzer across the resistor.
4. Set impedance switch (W) to 1/8 and the Z-Matic Control (R) to "OFF".
5. Allow all equipment to warm up for 30 minutes.
6. Adjust the generator to 1KC and its output slightly below the clipping point (approx. 1dB) at the amplifier output. This output must be held constant.
7. Adjust the Phase Inverter X4 for minimum distortion on the analyzer.

1. DC voltage measurements taken with vacuum tube voltmeter.
2. AC voltages measured at 1000 ohms per volt.
3. Solder connections are shown as solid lines.
4. Measured values are from socket pin to common negative.
5. Line voltage maintained at 120 volts for voltage readings.
6. Nominal tolerance of component values makes possible a variation of ±10% in voltage and resistance readings.
7. All controls at minimum, proper output, load connected.

If either output tube (EL34) is replaced, R2 should be adjusted.
1. Turn Level R2 Control fully counterclockwise.
2. Connect the speaker or proper load to the unit.
3. Connect a 0-120mA DC meter in the plate current jack. (If desired, the circuit is suitable jacks and may be opened and the meter connected across the jack terminals.)
4. Allow the unit to warm up for 30 minutes.
5. Adjust R2 for a meter reading of 125 ma.