PLEASE NOTE: Rick-Tone amplifiers underwent many changes and improvements over the time span that they were produced, and most were custom-tailored to individual owner's tastes. While this drawing may serve as a general overview for the circuit of this type/model of amplifier, it is unlikely that the circuit of your individual Rick-Tone amplifier will match this drawing in every detail.

CAUTION: ELECTRICAL SHOCK HAZARD: Vacuum tube circuits can contain dangerous high voltage electricity that can be harmful or even lethal if appropriate safety measures are not observed. Dangerous voltages may even still be present when the unit is turned off and unplugged. Do not attempt to repair, modify, touch, or build such circuits without proper training.

DISCLAIMER: This diagram is provided for informational/educational use only. Any use is AT YOUR OWN RISK. The authors and distributors of this diagram disclaim any and all liability for consequences of your use of this drawing and its contents.

POWER SUPPLY SECTION

- 117 VAC 60 Hz
- 5V 50 VAC
- 6.3 VAC
- Filaments

5U4 GB or 5Y3 GT
(Rectifier)

NOTE: Rectifier tube is replaced with two 1N4001 diodes in later units.

AMPLIFIER SECTION

SINGLE-ENDED TUBE GUITAR AMPLIFIER

Several variations of this basic design were made with different power supply voltages and different output tubes, typically 6V6, 6L6, or 6CA7.

Voltages shown are typical for 6V6 equipped units. 6L6 et. al. use higher power supply voltages.

Input From Guitar

.022µF 47K
2.2M
3.3µF 25V
1Y
12AX7
(Preamplifier)

Shielded wire
(Shielded Grounded)

Cathode Resistor:
6V6 GT use 250-300 ohm
6L6 6C use 125-250 ohm
EL34 use 125 ohm

Output to Speaker

NOTE: Preamplifier biasing, coupling and bypass components varied considerably between units.