

the headphone. I recommend the \$20 HPX2000, or the \$50 Audio Technology units, model ATH-M30, from Parts Express (800-338-0531).

Switch Settings:

1. Set S2 to H.P. position.
2. Set S3 to L.A. position.

PREAMP

Application (Optional): You may choose the preamp mode if you prefer to build a power amp that uses only a single amplifier stage to drive a SE power output tube or a phase inverter stage to drive push-pull power output tubes. The preamp mode is the same as the headset mode except the output signal is obtained from the plates of the 12B4s via the 0.47µF capacitor. If you require direct DC coupling of the phase inverter, add a separate pair of RCA female jacks.

The +115V DC output from the 12B4s (3.1kΩ) plate load resistor is compatible with the DC grid voltage requirements of most direct-coupled phase inverters. The voltage gain of the 12AT7 and 12B4s is 125 with cathodes of the 12B4s un-bypassed and 185 with cath-

ode bypassed (output). The out-

audio output signal to drive the five parallel 12B4s line amp. A 0.25V RMS input signal to the 12AT7 provides an output of 9V RMS from the 12AT7-output circuit to drive the headphone

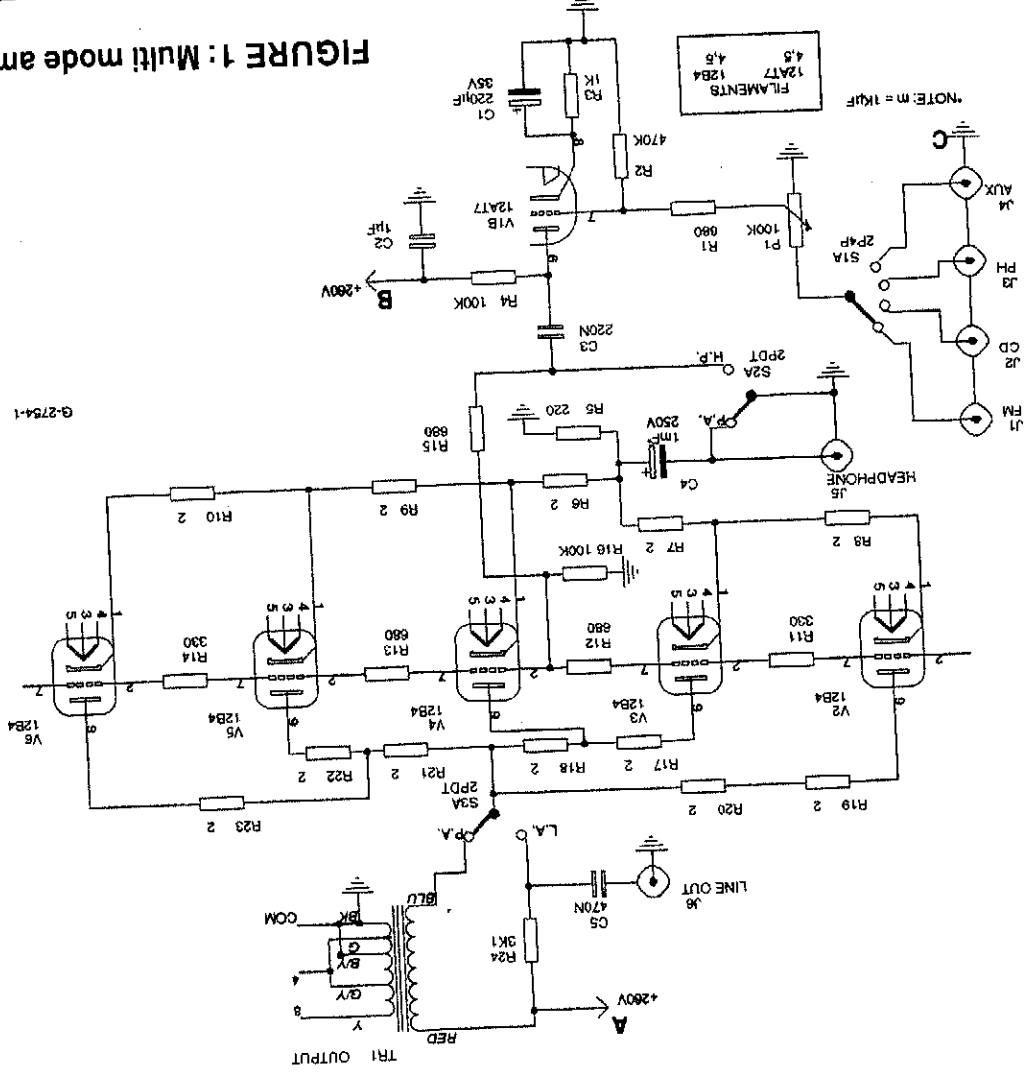


FIGURE 1: Multi mode amplifier.

Figure 1 shows that much thought ensures a carbon block exists on the long lead required to connect tubes 1 and 5 to the terminal strip and the metal-oxide plate resistors.