

## Using and Tuning the GI7B Conversion Amp

1. Keep plate current within the 400MA range or less when tuning. Exceeding this limit may damage amplifier. Watch the plate current meter closely at all times when tuning.
2. Your amplifier maximum input power is around \_\_\_\_\_watts for all bands. Do not exceed this input rating as damage to amplifier may result from doing so.
3. It is highly recommended that a series of dits from an electronic keyer be used to tune your amp. Setting your keyer to around 50wpm is the best setting. Direct keydown is not recommended for tuning and should be avoided if possible. A tuning pulsar may also be used to key your amp for tune-up.
4. To tune your amp first set your radio to CW mode and adjust your carrier output to recommended wattage given in item 2.
5. Set your amp meter switch to the current position.
6. Set the plate cap dial to a setting close to the band you will be tuning.
7. Key your amp and observe the plate current. Tune the plate cap dial for a dip in the plate current. This will be close to the maximum output of the amp.
8. Tune the load dial for an increase in wattage out and then back off a little on the dial with the power
9. DO NOT EXCEED 10 seconds tuning time without allowing the amplifier to cool.
10. You should now be ready for transmit.
11. NEVER run the amplifier at a constant keydown at full power. It is recommended in this mode to use 50% of the normal output power. This amp is not recommended for RTTY and FM use at full power.
12. The ALC circuit in this amp prevents overdriving the amp, which can cause splatter and damage to amplifier parts. Using the ALC is highly recommended on all bands as the tube in this amp has very high gain.
13. To use the ALC first connect the jack to your radio. Tune radio for max power first without ALC connection.
14. Connect the ALC to the radio and apply power to the amp again. Turn the ALC pot on the back of the amp until the power output decreases slightly. ALC voltage is now set.
15. Usually once the ALC is set further adjustment is usually not necessary unless a band change is made.

This amp has been thoroughly tested. Most problems with amplifiers are due to user abuse or incorrect tuning and loading procedures. Take your time and do it right the first time. 73 Ted N8GPQ