

With the ALC ADJUST control fully counterclockwise, tune the amplifier for SSB operation. Drive the amplifier to about 800 ma of plate current and then rotate the ALC ADJUST control clockwise until the grid current just begins to decrease. If the exciter can not drive the amplifier to 800 ma of plate current, there is no need to adjust the ALC control.

The ALC circuit is designed to prevent overdrive (and therefore distortion) from a high powered exciter. If the exciter does not put out more than 120 watts, the ALC connection is probably not necessary.

#### SECTION 5.5 ALTERNATE TUNING METHOD

When you have verified the TUNE and LOAD dial settings for each band and are more comfortable with your amplifier, the entire tuning procedure can be completed in a few seconds.

This alternate tuning method (tuning for maximum output) requires a good RF power meter capable of measuring at least 2500 watts at the output of the amplifier. Set the TUNE and LOAD controls at the predetermined settings for the frequency desired. Apply drive from your exciter to the amplifier and bring the RF output reading to about 600 or 700 watts. Adjust the TUNE and LOAD controls alternately to carefully peak the amplifier's output as shown on the RF wattmeter. The amplifier will now be tuned to resonance.

#### SECTION 5.6 OPERATING PRECAUTIONS

Please keep the following precautions in mind to insure safe and reliable operation of the amplifier for many years.

Voltages inside the amplifier can be lethal. Never try to disable the protection circuits designed into the amplifier. Never operate the amplifier with any of the panels removed.

Always tune the amplifier for resonance at the operating frequency before transmitting.

Never switch the BAND switch while the amplifier is keyed. You will likely have a very expensive repair bill to replace the BAND switch if make this mistake.

Never operate the amplifier into a load with an SWR greater than 2:1.

The components in the amplifier are specifically designed for operating parameters in line with the rated output listed in the specifications. Excessive drive causing output in excess of that specification will shorten tube life and endanger the reliability of other components.