3.0 INSTALLATION - GENERAL

Connect a short coaxial jumper with appropriate connectors (PL-259 is standard) from the exciter output to the amplifier input. This cable should be either RG-58U or RG-8U, 50 ohm inpedance and should not exceed six feet in length.

Connect a two-wire relay control jumper from the exciter to the amplifier. This jumper should have an RCA phone plug at the amplifier end and an appropriate connector at the exciter end. The relay in the 1500Z requires a ground completion on the center pin of the phone jack for operation. Check your exciter to make sure it will provide this.

Check the jumpers at the rear of the power supply board in the 1500Z for proper connection for the voltage you wish to use. The unit is shipped wired for operation on 110VAC to 120 VAC, unless noted otherwise on the shipping carton. The jumper connections for changing primary voltage are shown on the schematic diagram at the back of this manual. The power cord is supplied with a connector for 115 VAC operation - if you wish to use 230 VAC, cut off the existing plug and install an appropriate connector on the cable. The color code on the power cable is standard - white and black are the "hot" leads, and green is the ground or "neutral" lead.

Connect a heavy ground wire on strap to the 1500Z at the terminal provided. This must run to the closest good ground, i.e.: the nearest cold water pipe or a 6 foot ground rod driven into moist soil as close as possible to the 1500Z. The run should be less than 15 feet if possible.

The 1500Z does not have a built-in low pass filter on the output. If one is found to be necessary, an external filter can be added into the antenna line.

4.0 OPERATION

A. There are three front panel tuning controls:

1. MHZ RANGE SWITCH. Sets the operating frequency range to one of four Amateur bands. This switch selects the inductance and capacity for the frequency range that will maintain the optimum L/C ratio. This switch also selects the input matching network. The panel legend indicates the lower band edge frequency.

2. PLATE. Tunes the input capacity of the Pi-network, calibrations are approximate band settings to expedite tune-up.

3. LOAD. Tunes the output capacity of the Pi-network, provides for an impedance matching adjustment to the antenna.

B. Power Switch

Controls AC power to the primary relay. When it is in the ON position, the light in the panel meter provides a visual indication that power has been applied.