

2-17. PLATE SWITCH (Modulator Section Panel). Actuates two relays. One applies AC to the modulator plate transformers; other removes short across modulation transformer.

2-18. FILAMENT SWITCH (Power Supply Panel). Applies AC power to the entire transmitter.

2-19. EXCITER SWITCH. Applies AC power to low B + plate transformer for the Exciter section.

2-20. HI LO B +. In LO B + position inserts resistance in plate transformer circuit reducing high voltage to a safe level for tuning procedure. This resistor will heat excessively if tune-up time exceeds three minutes.

2-21. TRANSMIT SWITCH. Applies AC power to plate transformer for high B + voltage for the Power Amplifier tube. Also applies B + voltages to Exciter section. Push-To-Talk switch on microphone stand will also energize the complete transmitter by relay control.

2-22. KEY JACK. Closed circuit type wired into cathode of the Oscillator stage for Oscillator keying.

2-23. CRYSTAL SOCKET. Insertion of 160, 80 or 40 meter crystals allows operation on all Amateur bands.

2-24. SSB-VFO SOCKET. Optional input for VFO operation. Also used to insert a SSB signal for SSB operation.

2-25. SEQUENCE OF OPERATION.

2-26. Proper tune-up is necessary for optimum performance of the Globe King Model 500 Transmitter. Attempted operation of the transmitter without proper tune-up may result in damage to the equipment.

TABLE II. CRYSTAL CHART

| BAND    | CRYSTAL      |
|---------|--------------|
| 160 M   | 1800-2000 KC |
| 80-75 M | 3500-4000 KC |
| 40 M    | 7000-7300 KC |
| 20-15 M | 7000-7200 KC |
| 11 M    | 6740-6807 KC |
| 10 M    | 7000-7425 KC |

#### WARNING

Operation of this equipment involves the use of high voltages which are dangerous to life. Observe all safety precautions. Do not attempt to make adjustments inside of equipment, or change tubes, with the high voltage supply ON. Turn the high voltage supply OFF before attempting any such adjustments or changes.