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TRANSCEIVER
TRANSMITTER TUNE-UP

The following suggestions are offered in order to prevent power loss or damage to your final amplifier section, and to prolong the life of your transmitting tubes.

1. All tuning should be performed at low power. The following procedure is recommended:
 - A. Peak the preselector on the unit for maximum noise on receive.
 - B. Place the meter in the IC position, and the mode switch in the tune position.
 - C. Rotate the carrier control to the fully counter clockwise (minimum) position.
 - D. Key the mike and increase the setting of the carrier until the current is increased 50ma above idle.
 - E. Switch the meter to the PO position.
 - F. Adjust plate tuning, loading and preselector for maximum meter reading.
 - G. Release the mike button and rotate the carrier control to the fully clockwise position (maximum).
 - H. IMPORTANT: IN THE FOLLOWING STEPS TUNE TIME SHOULD NOT EXCEED A 10 SECOND INTERVAL. WE RECOMMEND AT LEAST 20 SECONDS BETWEEN SUCH TUNE PERIODS. With familiarity of the procedure complete tuning can be accomplished within a single 10 second period.
 - I. Key mike and repeak plate tuning and loading for maximum PO indication. 10 SECONDS MAXIMUM.
 - J. This completes the tune-up. Set the mode switch to the desired mode and adjust the mic gain for proper ALC meter indication.
2. Do not exceed the recommended plate current (IC).
3. Do not exceed the recommended continuous plate current for AM or RTTY.
4. Do not use antennas which are untuned or exhibit an SWR of more than 2:1.
5. Do not replace driver or final tubes with other than factory brands. (6KD6, 6JS6, and 12BY7A should be TOSHIBA. 6GK6 should be G.E.)
6. Always reneutralize the finals whenever tubes are replaced.
7. Do not set books or other units on top of the transceiver. This prevents proper cooling.
8. Remember that specified power is "input power" and that the output will be considerably less than this figure. Under continuous carrier applications such as AM or FSK the output is around 25 watts for the FT-101 and around 40 watts for the FT-401 series.

By following the above guide-lines, your transceiver should yield many hours of trouble-free operation.