Operation Instructions for model AL-T1000.2
High Frequency High Voltage Output Transformer

This model AL-T1000.2 high frequency high voltage output transformer was manufactured to meet the following basic specifications.

- Primary Volts: 25 V rms.
- Secondary Volts: 5000 V rms.
- Output Power: 1000 watts
- Frequency Range: 600 Hz to 2.5K Hz

Additional characteristics of the transformer are:

- Primary Inductance: 4 mH
- Secondary Inductance: 2.0 H
- Turns Ratio: 200 : 1
- Stray Capacitance: 250 pF (at secondary side)
- Leakage Inductance: 2.5 uH (at primary side)
- Max. Overshoot Volts: 110% of rated output
- Dimensions: 10" X 8" X 6"
- Weight: 45 lbs

When operating this high voltage transformer, a secure earth ground connection (by AWG 12 or bigger wires) must be made to the cabinet of the transformer. Mishandling of high voltage transformers can lead to accidental death. Thus, this transformer should only be operated by qualified personnel with high voltage experience and knowledge.

The operation frequency range of the above output transformer needs to be strictly confined within the specified frequency range of 600 Hz to 2500 Hz.

When operating this HFHV transformer, it is strongly recommended that the amplitude be increased slowly from zero volts while monitoring the output voltage with a high frequency high voltage probe and an oscilloscope. The output voltage must not exceed 110% of rated maximum output voltage. Over-voltage can damage the transformer.