## TUNING PROCEDURES FOR THE CST-703

The factory has programmed f1 to 154.6000 Mhz

- 1. Apply power to the transmitter 9.0 Vdc
- 2. Connect a coax cable to the 50 ohm test point, and place a 30 Dbm pad in series with a spectrum analyzer.
- 3. Turn the transmitter ON, monitor the supply current.
- 4. Measure the voltage at the junction of R12 and R13, by compressing the oscillator coil (L2) adjust the voltage to 3.25 volts.
- 5. Monitor the frequency of the transmitter with a frequency counter. The frequency should be 174.000000 Mhz. Adjust the reference (X2) to the above frequency +/-100 hz.
- 6. Monitor the power output with a watt meter (power output should be 250 mw +/- 1 Dbm.) @ 130 ma.
- 7. Adjust C34 while in f2 to reduce the second harmonic of the transmitter to 55 dbc maintaining 250 mw.
- 8. Slide the swith to f1 the frequency should read 154.000000 Mhz +/- 100 hz. The voltage at the junction of R12 and R13 should be 1.2 volts. Monitor the second harmonic with the spectrum analyzer, the second harmonic should be > 44 Dbc.
- 9. Monitoring the frequency with a modulation meter, whistle into the microphone and adjust R22 to 2.8 Khz deviation on f2 (174.0000 Mhz).