

10HT Manual

1) VCO adjustment

- 1) Set the channel at 20 by the frequency setting switch.
- 2) Connect the DC volt meter to TP1
- 3) Adjust VC101 to get 0.9V through DC volt meter.
- 4) Set the channel at 08 and make sure DC meter shows 2.0V

2) Output power adjustment (Power voltage $3V \pm 0.1V$)

- 1) Set the channel at 55
- 2) Connect the spectrum analyzer to CN2 (SW1 should turn to CN2)
- 3) Adjust VC2 to minimize the spurious ($1/2F$ and $3/2F$)
- 4) Connect the power meter and adjust VR3 to get a power at 10mW.

3) Transmitter frequency setting

- 1) Set the channel at 55
- 2) Connect the frequency counter to JK2
- 3) Adjust VC1 until the frequency counter shows its frequency at $800.000MHz \pm 1.5KHz$.

4) AF modulation adjustment

- 1) Connect the liner detector to CN2
- 2) Set the channel at 55
- 3) Connect the audio oscillator output to CN1 (Mic terminal)
- 4) Generate the audio oscillator output at -60dBm (at 1kHz)
- 5) Adjust VR101 to get -31dBm at TP1
- 6) Adjust VR1 so that the deviation will be $5.0kHz \pm 0.5kHz$