Tuning Procedure for 32-1257

TX Section

1.1 Frequency Accuracy Adjustment

1.1.1 Solder the opened end of the BNC cable to "Mic- " and ground of the board by using the soldering iron. Then connect the BNC terminal to the Spectrum analyzer

1.1.2 Turn on the DC power and set the SW2 (Off/Standby/Talk) to Standby mode

1.1.3 Set the Spectrum Analyzer to:

Desired Frequency :F0 (169.505MHz, 170.245MHz or 171.905MHz)
Span : 50KHz
BW: 1KHz

1.1.4 Adjust L2 until the carrier Frequency is within our desired.

1.2 Mike Sensitivity Tuning

1.2.1 Solder the opened end of the BNC cable to "Mic- " and ground of the board by using the soldering iron. Then connect the BNC terminal to the Tester HP8920

1.2.2 Turn on the DC power and set the SW2 (Off/Standby/Talk) to Talk mode

1.2.3 Set the AF level to 2mV

1.2.4 Set the Tester HP8920 to following settings:

TX mode
Filter: 300Hz—3000Hz
Emphasis: On

1.2.5 Adjust the VR2 until 7KHz deviation is read .