

ALIGNMENT PROCEDURE AND SPECIFICATION

A. STANDARD TEST CONDITION

1. RF IN/OUT IMPEDANCE	----- 50 OHM
2. RF SIGNAL GENERATOR	
RF OUTPUT	----- -47dBm
MODULATION	----- 1 Khz, 0.5 Khz DEVIATION
3. SPEAKER OUTPUT IMPEDANCE	----- 8 OHM
4. SPEAKER VOLUME	----- MAXIMUM
5. MIC INPUT SIGNAL	----- 1 Khz 10 mVrms
6. POWER SUPPLY	----- DC 6V +/- 15 %

B. ELECTRICAL TEST ITEMS

1. VCO VOLTAGE ADJUSTMENT

- 1) PRESS AND HOLD DOWN THE POWER BUTTON TO POWER ON
- 2) PRESS THE PTT BUTTON INTO THE TX MODE
- 3) CONNECT THE DC VOLT METER TO TP1
- 4) ADJUST L18 AND OBSERVE DC VOLTAGE

LIMIT : 0.8 +/- 0.3 Vdc

2. FREQUENCY ADJUSTMENT

- 1) CONNECT THE FREQUENCY COUNTER TO ANT POINT
- 2) PRESS THE PTT BUTTON
- 3) ADJUST THE FREQUENCY BY CV1

LIMIT : +/- 100 Hz

3. TX POWER CHECK

- 1) CONNECT THE RF POWER METER TO ANT POINT
- 2) PRESS THE PTT BUTTON
- 3) MEASURE THE TX POWER

LIMIT : 21 dBm +/- 1 dB

4. MIC MODULATION SENSITIVITY CHECK

- 1) CONNECT THE MODULATION METER TO ANT.
- 2) THE AUDIO SIGNAL INPUT TO MIC.
- 3) PRESS THE PTT BUTTON
- 4) MEASURE THE MODULATE DEV.

LIMIT : 0.9 +/- 0.3 Khz DEV.

5. MAXIMUM DEVIATION CHECK

- 1) CONNECT THE MODULATION METER TO ANT.
- 2) THE AUDIO SIGNAL INPUT TO MIC.
- 3) INCREASE THE AUDIO LEVEL BY 20DB
- 4) PRESS THE PTT BUTTON
- 5) MEASURE THE MODULATE DEV.

LIMIT : 1.9 +/- 0.4 Khz DEV.

6. CALL SIGNAL MODULATION DEV. CHECK

- 1) CONNECT THE MODULATION METER TO ANT.
- 2) PRESS THE CALL BUTTON
- 3) MEASURE MODULATE DEV.

LIMIT : 1.2 +/- 0.3 Khz DEV.

7. LOW BATTERY DETECT CHECK

- 1) VARY THE DC POWER
- 2) OBSERVE THE BATTERY ICON INSIDE BARS DISAPPEARED
- 3) MEASURE THE DC POWER VOLTAGE

LIMIT : 4.4 +/- 0.2 Vdc

8. DISCRIMINATOR ADJUST

- 1) CONNECT THE SSG TO ANT.
- 2) CONNECT THE DC VOLT METER TO TP10
- 3) ADJUST IFT1 AND MEASURE TP10 VOLTAGE

LIMIT : 1.3 +/- 0.2 Vdc

9. SPEAKER OUTPUT LEVEL CHECK

- 1) CONNECT THE SSG TO ANT.
- 2) CONNECT THE AUDIO VOLT METER TO SPK.
- 3) MEASURE THE SPEAKER OUTPUT LEVEL

LIMIT : -1 +/- 4 dBm

10. RECEIVING SENSITIVITY CHECK

- 1) CONNECT THE SSG TO ANT.
- 2) CONNECT THE SINAD METER TO SPK.
- 3) REDUCE THE SSG RF OUTPUT LEVEL UP TO SINAD 12dB
- 4) MEASURE THE SSG RF OUTPUT LEVEL

LIMIT : < -116 dBm

11. SQ CHECK

- 1) CONNECT THE SSG TO ANT.
- 2) CONNECT THE SINAD METER TO SPK.
- 3) CONNECT THE DC VOLT METER TO TP12
- 4) REDUCE THE SSG RF OUTPUT UP TO TP12 IS CHATTERING
- 5) MEASURE THE SINAD METER

LIMIT : 6 +/- 2 dB