

TUNE-UP PROCEDURE

1022

1. TRANSMITTING

1.1 TX VCO ADJUSTMENT

- a) Connect the DC voltmeter to the test point 1 (TP1).
- b) Press the PTT Button.
- c) Adjust L18.
- d) Specification: 0.9Vdc +/- 0.3 V @ CH 1

1.2 FREQUENCY ADJUSTMENT

- a) Connect the frequency counter to ANT point.
- b) Adjust CV1.
- c) Specification: Tx Frequency +/- 200Hz

1.3 TX POWER CHECK

- a) Connect the RF level meter to the ANT point (RF impedance: 50Ω)
- b) Press the PTT button.
- c) Check the TX Power
- d) Specification: <+11.5 dBm +/- 3 dB

1.4 MAX. DEVIATION ADJUSTMENT

- a) Connect the deviation meter to the ANT point.
- b) Apply the audio signal 1KHz, 4mVrms to the test point 7 (TP7 - MIC input)
- c) Observe the clipped signal on the scope.
- d) Adjust SVR1.
- e) Specification: 2.5KHz Dev +/- 0.15KHz

1.5 MODULATION SENSITIVITY ADJUSTMENT

- a) Connect the deviation meter to the ANT point.
- b) Apply the audio signal 1KHz, 8mVrms to the test point (TP7 - MIC input).
- c) Adjust SVR1.
- d) Specification: 0.9-1.0KHz Dev

1.6 CALL DATA MODULATION SENSITIVITY CHECK

- a) Press the Call Button and observe the deviation meter to check the deviation.
- b) Specification: 1.8KHz +/- 0.5KHz

2. RECEIVING

2.1 RX VCO CHECK

- a) Connect the DC voltmeter to test point 1 (TP1).
- b) Check the DC voltage.
- c) Specification: 0.9Vdc +/- 0.6V @ CH 1