

全成电子有限公司
TSUEN SHING ELECTRONICS LTD

TUNE-UP PROCEDURE

(The hand held MURS)

1. TRANSMITTING

1.1 TX VCO ADJUSTMENT

- a) Connect the DC voltmeter to the test point "TP1".
- b) Press the PTT Button.
- c) Adjust L2
- d) Specification: 0.8Vdc to 2.5V @ CH1

1.2 FREQUENCY ADJUSTMENT

- a) Connect the frequency counter to ANT point
- b) Adjust VC1.
- c) Specification: TX Frequency +/- 500Hz

1.3 TX POWER CHECK

- a) Connect the RF level meter to the ANT point (RF Impedance: 50 Ω)
- b) Press the PTT button.
- c) Check the TX Power.
- d) Specification: 1.5W $\pm$ 0.2W

MAX. DEVIATION ADJUSTMENT

- a) Connect the deviation meter to the ANT point
- b) Apply the audio signal 1KHz, 40mVrms to the test point "TP1" (MIC input).
- c) Observe the dipped signal on the scope.
- d) Adjust VR1
- e) Specification: 2.5KHz Dev +/- 0.2KHz

MODULATION SENSITIVITY ADJUSTMENT

- a) Connect the deviation meter to the ANT point.
- b) Apply the audio signal 1KHz, 4mVrms to the test point "TP1" (MIC input).
- c) Adjust VR1.
- d) Specification: 0.9 - 1.5KHz Dev

CALL DATA MODULATIN SENSITIVITY CHECK

- a) Press the Call Button and observe the deviation meter to check the deviation.
- b) Specification: 1.5KHz +/- 0.3KHz

2. RECEIVING

2.1 RX VCO CHECK

- a) Connect the DC voltmeter to test point “TP1”
- b) Check the DC voltage
- c) Specification: 0.8Vdc to 2.5V @ CH1

2.2. How to adjust the IF sensitivity, low-frequency distortion and power output:

- a. To connect the speaker output terminal to the IF input terminal of radio communication analyzer.
- b. To turn T1 to adjust the audio output is min and distortion is max.
- c. To observe, then the audio signal outputs 12dB, now IF input is $< 25\text{dBm}$.
- d. To observe audio output power is $\geq 150\text{mW}$.

2.3. How to adjust high-frequency RX sensitivity and image suppress

- a. To connect the output terminal of speaker and antenna input terminal to the radio communication analyzer.
- b. To adjust L5 to make the RX sensitivity is $\leq -4\text{dBu}$ emf and image suppression is $> 50\text{dB}$.
- c. To adjust VR1 to make the RX squelch turn on sensitivity is $-4 \pm 2\text{dBu}$ emf.

Others:

- 1. Press ‘MON’ key to make the unit to receive thin signal.
- 2. Press ‘UP’ and ‘DOWN’ key to detect the frequency point relatively, which displaying.
- 3. Check the cosmetic and telecommunication function.

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审核:

批准:

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