
TUNE-UP PROCEDURE

UNIT:A

1. TRANSMITTING

1.1 FREQUENCY ADJUSTMENT

- a) Connect the frequency counter to ANT point.
- b) Adjust T4
- c) Specification: 40.68MHz +/- 100Hz

1.2 TX POWER CHECK

- a) Connect the RF level meter to the ANT point (RF impedance: 50Ω)
- b) Check the TX Power
- c) Specification: -10+/-1.5dBm

1.3 MODULATION SENSITIVITY CHECK

- a) Connect the deviation meter to the ANT point.
- b) Apply the audio signal 1KHz, 3mVrms to the test point M+, M- .
- c) Specification: 2.0KHz Dev +/- 0.3KHz

2. RECEIVING

2.1 QUAD COIL ADJUSTMENT

- a) Connect the DC voltmeter to the test point AF(IC1 Pin9).
- b) Adjust the T2.
- c) Specification: 2.3Vdc +/- 0.2V

2.2 SENSITIVITY CHECK

- a) Connect the Sinnader meter to test point SP+ ,SP-.
- b) Reduce the RF output level of signal generator to get the 12dB of Sinnader.
- c) Specification: <-108dBm

2.3 SPEAKER OUTPUT LEVEL CHECK

- a) Connect the Audio level meter to test point SP+,SP-.
 - b) Connect the 150Ω load to test point SP+,SP-.
 - c) Turning the volume till its maximum level.
 - d) Adjust the modulation deviation of RF signal generator.(1kHz,2kHz dev)
 - e) Specification: Level =200-250mv.
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TUNE-UP PROCEDURE

UNIT:B

3. TRANSMITTING

3.1 FREQUENCY ADJUSTMENT

- d) Connect the frequency counter to ANT point.
- e) Adjust T4
- f) Specification: 49.86MHz+/-20Hz

3.2 TX POWER CHECK

- d) Connect the RF level meter to the ANT point (RF impedance: 50Ω)
- e) Check the TX Power
- f) Specification: -12/-1.5dBm

3.3 MODULATION SENSITIVITY CHECK

- d) Connect the deviation meter to the ANT point.
- e) Apply the audio signal 1KHz, 3mVrms to the test point M+, M- .
- f) Specification: 3.0KHz Dev +/- 0.3KHz

4. RECEIVING

4.1 QUAD COIL ADJUSTMENT

- d) Connect the DC voltmeter to the test point AF(IC1 Pin9).
- e) Adjust the T2.
- f) Specification: 2.3Vdc +/- 0.2V

4.2 SENSITIVITY CHECK

- d) Connect the Sinnader meter to test point SP+ ,SP-.
- e) Reduce the RF output level of signal generator to get the 12dB of Sinnader.
- f) Specification: <-108dBm

4.3 SPEAKER OUTPUT LEVEL CHECK

- f) Connect the Audio level meter to test point SP+,SP-.
 - g) Connect the 150Ω load to test point SP+,SP-.
 - h) Turning the volume till its maximum level.
 - i) Adjust the modulation deviation of RF signal generator.(1kHz,2kHz dev)
 - j) Specification: Level =200-250mv.
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