

TUNE-UP PROCEDURE

KST-53V

1. TRANSMITTING.

1.1 FREQUENCY ADJUSTMENT

- a) Connect the frequency counter to the L7.
- b) Replace the crystal Y1 for the operating frequency.
- c) Adjust L9.
- d) Specification : Tx Frequency +/- 0.005%

1.2 TX POWER CHECK.

- a) Connect the RF power meter to the L7. (RF impedance 50 ohm).
- b) Switch on the transmitter.
- c) Check the Tx power.
- d) Specification : 10 dBm +/- 1dBm

1.3 MAX. DEVIATION ADJUSTMENT.

- a) Connect the deviation meter to the L7.
- b) Apply the audio signal 400Hz, 30mV to the MIC point.
- c) Adjust R30.
- d) Specification : 15 KHz , Dev. +/- 2 KHz

2. RECEIVING.

2.1 RX FREQUENCY CHECK.

- a) Connect the spectrum analyzer to C79.
- b) Adjust T5, T6.
- c) Check the level, and make it to maximum.

2.2 SENSITIVITY CHECK.

- a) Connect Sinnader meter to the C152.
- b) Connect DC voltmeter to R145.
- c) Reduce the RF output level of signal generator below -105dBm.
- d) Adjust C14, T1, C33, T3, C93, T7, C91, T13, make the DC level to maximum, and get 12 dB of the Sinnader.