

DESCRIPTION OF ELECTRICAL CIRCUITRYPORTABLE UNIT:

A) RECEIVER UNIT OPERATION

- 1) A signal from the base unit is received by the antenna, and passes through the 2402.08~2481.44MHz band pass filter F301.
And the signal is amplified by the Rx AMP(Q301).
- 2) An received signal and 1st local signal made by VCO(2350.32~2429.68) are mixed by Q303 to obtain 1st IF signal.
And this signal goes out from pin 6 of IC311.
- 3) This 1st IF signal is fed to pin 16 of IC313, and is demodula by IC313 to control data and audio signal.
- 4) This audio signal goes to pin 53 of IC202, and output to speaker.

B) TRANSMISSION UNIT OPERATION

- 1) When selected TALK switch to TALK, the detect switch of IC200 becomes ON and get into TALK mode.
- 2) The audio signal from microphone is inputted to pin 25 of IC202.
- 3) This audio signal is modulated by TxVCO and output from pin 2 to IC301.
- 4) This modulated signal goes through Tx AMP (IC303, 305, 302), and outputs to the antenna.