

DESCRIPTION OF ELECTRICAL CIRCUITRY

PORTABLE UNIT:

A) RECEIVER UNIT OPERATION

- 1) A signal from the base unit is received by the antenna, and passes through the 2406.16~2477.84MHz band pass filter FL430.  
And the signal is amplified by the Rx AMP(Q433, Q430).
- 2) An received signal and 1st local signal made by VCO(2354.40~2426.08) are mixed to obtain 1st IF signal.  
And this signal goes out from pin 26 of IC500.
- 3) This 1st IF signal is fed to pin 23 of IC500, and is demodulated by IC500 to control data and audio signal.
- 4) This audio signal goes to pin 49 of IC201, and output to speaker.

## B) TRANSMISSION UNIT OPERATION

- 1) When selected TALK switch to TALK, the detect switch of IC901 becomes ON and get into TALK mode.
- 2) The audio signal from microphone is inputted to pin 3 of IC201.
- 3) This audio signal is modulated by TxVCO and output from pin 33 to IC450.
- 4) This modulated signal goes through Tx AMP (Q402, 401, 400), and outputs to the antenna.