

## **Operation Description**

**Frequency Range: 638.35MHz to 643.475MHz**

**Signal from receiving antenna goes through BPF filter and then through RF amplifying. After the 1<sup>st</sup> local oscillation and HF amp mixed, the frequency is 56MHZ, and then mixed with the 2<sup>nd</sup> local oscillation, it becomes 10.7MHZ. After filtering, it goes to FM 1145 detect frequency, and AF amp and IC1145. The 17<sup>th</sup> pin is to mute RSSI MF signal. IC1145 detects 32.768KHZ, then detects TONE signal control mute, then goes to expander, and De-emphasis, then goes to AF amp, and then to unbal/bal output.**

**After IC2069 amplified the mic signal, it goes to IC571 compression, pre-emphasis and amplified, then goes to 32.768KHZ tone lock and to high oscillation circuit for modulation, and to the quartz 3 octave, 12 octave, 48 octave, and to RF amp, then goes out.**