

### **Circuit Description**

Q1 the 49.860 MHz crystal oscillator drives the base of Q2 the final amplifier. Summed into the same base (Q2) is the modulation by amplifier circuit with speaker. The output of Q1 has the matching network consisting of L1, L2, C2 and C3 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

#### **Antenna, Ground and Power Source**

The antenna consists of a 14cm long whip antenna. There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 9 Volt primary storage cell.