

## Circuit Description

**Q1** the 49.860 MHZ crystal oscillator drives the base of **Q2** the final amplifier. Summed into the base **Q3, Q4** is the modulation by amplifier circuit with speaker.

The output **Q1** has the matching network consisting of **L1, L2, C1** and **C2** that limit the harmonic content and affect the proper coupling of the antenna to the output stage.

### Antenna, Ground and Power Source

The antenna consists of a 13cm 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.