

## **Circuit      Description**

**Model:      30113**

The 27MHz crystal oscillator drives the base of Q4 the high frequency amplifier. The modulated frequency provided by IC U1(EM78P458). The output of Q3 has the matching network consisting of C28,C25,C26,C27,C29,T2,T3 and L4 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 82.6cm long telescoping chrome over brass tubing. There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 8X1.5V("2A" ) primary battery.