

#### CIRCUIT DESCRIPTION:

In the transmit mode the momentary switches S1 and S2 provide DC voltage to the astable multivibrator transistors Q3 and Q4. The output of this oscillator drives the base of Q5 and then the emitter of Q1 the RF output transistor. The RF frequency is determined by the crystal. The output of Q1 is coupled through C3 to the base of the RF amplifier Q1. From Q1 the signal is fed into the tuned circuit made up of T1/C6 and then to coupled to the secondary of T1/C8 and is then fed through a coil to the antenna.

#### ANTENNA AND GROUND CIRCUITRY

This unit makes use of a short antenna. The antenna is inductively coupled. The antenna is self contained, no provision is made for an external antenna. This unit is powered from a 9.0V battery.

No ground connection is provided. The unit relies on the ground tract of the printed circuit board.