

CIRCUIT DESCRIPTION:

This unit is a low power walkie talkie operating in the 49 MHz band.

While transmitting transistor Q1 serves as a crystal controlled oscillator. Transistors Q2, Q3, and Q4 are used as audio amplifiers and amplitude modulate the transmitter.

When receiving transistor Q1 serves as a superregenerative detector. Transistors Q2, Q3, and Q4 are again used as audio amplifiers.

The unit is powered by a 9 volt transistor battery.

ANTENNA & GROUND:

This unit uses a short, helical antenna. The antenna is self contained and there is no provision for connecting an external antenna.

No ground connection is provided. The only ground used is the ground track on the PC board.