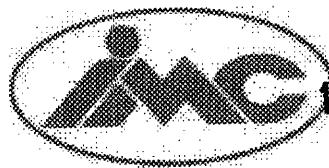


No 34325

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No 34324

7 JUL 2003

### Operational Description

#### Item 157903 Base Station and Walkie Talkie 007

#### Circuit Description:

In transmit mode the speaker is switched so that it is connected to the input of the audio amplifiers Q3 and Q4. The output of Q4 drives the transformer T1, which modulates the crystal controlled oscillator Q5 and Q6. This oscillator is the transmitter. The antenna is transformer coupled to the oscillator. In receive, Q1 and Q2 are the RF amplifier and detector stages. Q3 and Q4 become audio amplifiers of the received audio to drive the T1 which is coupled to the speaker.

#### Antenna and Ground Circuitry

This unit makes use of a external flexible 15 centimeter long antenna. The antenna is inductively coupled. The unit relies on the ground tract of the printed circuit board. No external ground is provided. Energy is supplied by a 9Volt battery.