

Hot Wheel WALKIE TALKIE

Circuit Description:

In the transmit mode the speaker is switched so that it is connected to the input of the audio amplifier (Q4, Q5 & Q6) and the output of Q6 drives the transformer T3, which modulates the voltage of the crystal controlled oscillator, Q3. The crystal controlled oscillator is the transmitter. Q3 is connected to the antenna via the output filter made up of L1.

ANTENNA AND GROUND CIRCUITRY

This unit makes use of a external 5" antenna. The antenna is inductively coupled. This unit is powered from a 9V battery.

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