

APPLICANT: 200 TOY (HK) LTD.
FCC ID: O4Y 10046

CIRCUIT DESCRIPTION

In transmit Q2, Q3, and Q4 are audio amplifiers that amplify the speaker/microphone level to a suitable level to drive the base of the crystal oscillator Q1. The audio amplifier also has feedback components R10 and SW2 that cause the amp to self oscillate which forms the Morse code circuit. Q1 is transformer coupled (L2) to the aerial (antenna) circuit that also consists of L1. In receive Q1 becomes the RF amplifier and detector. Q2, Q3, and Q4 are still audio amps but are now transformer coupled to the speaker as the audio output device.

The aerial is a flexible 13 cm helically wound wire. The unit has no external earthing (ground) connection and relies on the ground tract of the printed circuit board. Energy is supplied by a 9 Volt accumulator (battery).

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