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Subjects: Nickelodeon Flashlight Walkie Talkie Technical Descriptions

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Total Page(s): 1 (including this page)

(1) RECEIVE MODE:

The RF signal is pick up by the antenna, and AM signal will go through the amplification and demodulation process (Major Components: Q1,Q2,T2). Then the audio signal will go to the audio amplifier (Major Components: Q3,Q4,Q6) and output to the speaker (Major Components: T3,SPK1).

(2) TRANSMIT MODE:

Press the “Talk” button and speak to the speaker directly, the speaker will pick up the sound (Major Components: SPK1,SW1), the audio signal will go through the audio amplifier (Major Components: Q3,Q4,Q6) and then go to the AM modulation and amplification process (Major Components: Q5,X1,T1) and transmit out through the antenna.

(3) SOUND EFFECT MODE:

The walkie talkie has 4 pre-defined sounds masked into the sound chip (Major Components: U1).

During the Receive Mode, by pressing these sound buttons, the corresponding sound will go to the audio amplifier and then output to the speaker (Major Components: Q3,Q4,Q6,T3,SPK1)

During the Transmit Mode, by pressing these sound buttons, the corresponding sound will go to the audio amplifier (Major Components: Q3,Q4,Q6) and then send to the AM modulation and amplification process, the RF signal will then transmit out through the antenna. (Major Components: Q5,X1,T1). In this case, the sound will not hear from the speaker.