

# Able Tech Ltd.

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To : ITS – Cecilia Ho

From : David Yau

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Subject: Technical description for Walkie Talkie

a. Receiver

- The signal is received by the antenna through coil L1 and coupling inductor L2 to the transistor Q1, the signal is amplified and passed by the switch SW2 which was coupling by R2 & C4 to the secondary of coil L2, the signal was filtered by the capacitor C1 and passed to SW3 to the coupling capacitor C12 and controlled by volume VR1, then passed through R8 & C10 coupling to transistor Q4. The transistor Q4, Q2 & Q3 amplified the signal to transformer ST32 through the secondary to SW4 to the speaker. The speaker convert the signal to audio sound.

b. Transmitter

- The audio sound pass through the speaker and convert to audio signal, it is coupling by capacitor C10 to the base of transistor Q4. The signal is amplified by transistor Q4, Q2 & Q3 to the coil L2 and modulated by the crystal frequency.  
The coil L2 is coupling to the transistor and the signal pass through coil L1 transmitted by the antenna.