

WT-346

The schematic diagram of the WT-346 Walkie-Talkie circuit is divided into three main functional sections: Transmitter, Control/Oscillator, and Receiver.

- Transmitter Section (Left):** Utilizes a 4850A4 vacuum tube (T1). It includes a 4.8uH inductor (L1) and a 30pF capacitor (C1) for tuning. The output is coupled to the central section via a 10pF capacitor (C2).
- Control/Oscillator Section (Center):** Features a 930E vacuum tube (Q1) and a 901C vacuum tube (Q2). It includes a 30pF capacitor (C4), a 1.2K resistor (R3), and a 100pF capacitor (C7). The circuit is biased using a 100V 100uF capacitor (C1) and a 100V 100uF capacitor (C10).
- Receiver Section (Right):** Utilizes a 9014C vacuum tube (Q3) and a 9015H vacuum tube (Q4). It includes a 100pF capacitor (C12), a 100pF capacitor (C13), and a 100pF capacitor (C14). The output is coupled to a speaker (SP1) via a 100pF capacitor (C15).

The circuit is powered by a 9V battery (B1) and a switch (SW1). Various resistors (R1 through R14) and capacitors (C1 through C14) are used throughout the circuit to provide proper biasing and tuning.

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