

# User Guide

## TA0288

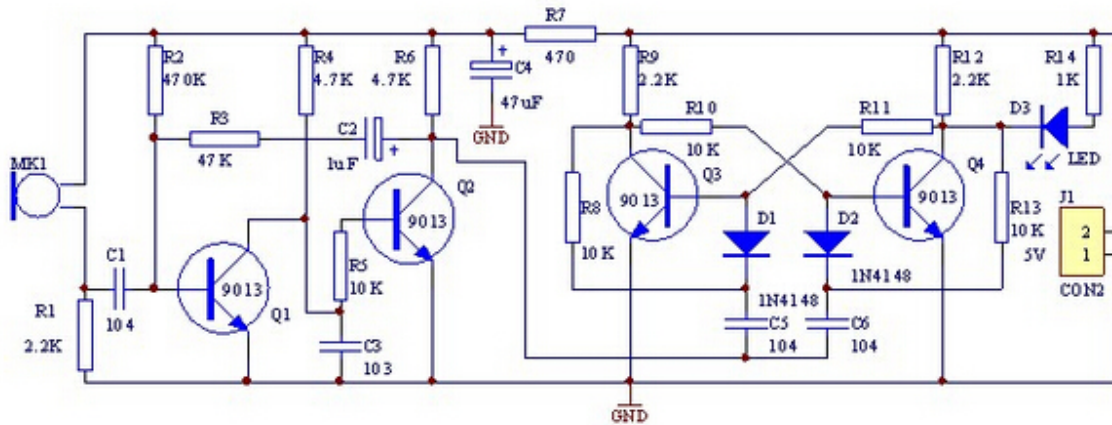
### DIY Clap Acoustic Control Switch Module

### Prototype PCB Kit



As the schematic show, Q1 and Q2 composed of two audio amplifier circuit, the audio signal is accepted by the MK1 C1 is coupled to the base of Q1 pole, amplified and fed directly from the collector to the base of Q2 to a negative square wave at the collector of Q2, with to trigger the output. R1, C1 circuit frequency response is limited to about 3kHz to high sensitivity range. The power is turned on, the state of the output Q4 off, Q3 saturated, D3 does not shine. When MK1 received a control signal, and a negative square wave output after two enlarged, negative spikes through D1 add to the base of Q3, the circuit rapidly flips, D3 is lit after differential processing.

When MK1 again connected to the control signal, the circuit and flipped, D3 is off.



**Note:** This is a unassembled kit, need to be soldered by the user itself.

**Function:** After soldering the whole components and powering on this board, the LED turns on or off is controlled by clapping your hands.

**Specification:**

- Work Voltage: 4.5~6V DC
- PCB Size: 49\*28mm
- Need extra tool: Soldering Iron