

RESISTORS: 1/8 WATT

270K -2

560K

4.7K

CAPACITORS:

4.7 μ f 50 volt {original is 35volt}

104{marked Z5F}

472{marked K10} (I am unsure about the meaning of these markings and used an unmarked 104 and a 472 marked 1KV)

TRANSISTOR {BC33725}

ZENER DIODE

I/C {HCF4538BE} 16 PIN

BUZZER 12V HCM1212

RED 5MM LED

12V A23 BATTERY

A23 BATTERY HOLDER

2 BANANA PLUG PINS /ONE 3mm/ONE 4mm

This device signals an open circuit, via the 2 banana plug pins {4mm is negative}

The device is plugged into a fencing foil, which operates as N/C circuit. When the tip of the foil is depressed, the circuit is opened. This device is not a scoring machine, but just a practice device for signaling when the foil tip is depressed. I mention the N/C circuit because all foil fencing scoring machines monitor the N/C circuit of the foil.

Enclosed: photos of original device (it works perfectly)

I used my multi-meter to trace the circuits on the original's board (as best I could) and I haven't been able to get my copy device to operate. Having spent considerable time checking circuit paths on the copy and comparing to original, I am a bit frustrated, as to reasons why mine isn't working.

I have the data-sheet for the HCF4538BE and have noted the Zener diode's connection to pins 5,3 and 16. The unmarked Zener side is connected to the positive terminal of the 4.7 μ f cap.

As far as I can tell, the other components are connected correctly on my copy on the breadboard.