

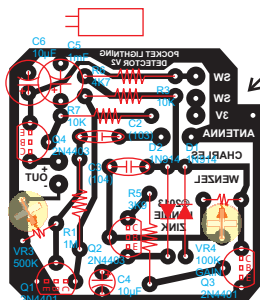
## POCKET LIGHTNING DETECTOR

LOOP STICK ANTENNA FROM AM RADIO  
RESULTS IN ABOUT 500kHz FREQUENCY

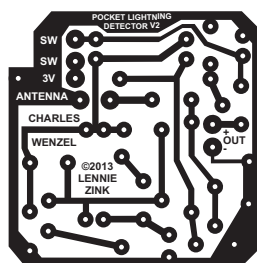
\*SW1 REPLACE LED with ULTRA BRIGHT LED (if needed)  
I used an old 12 volt switch and replaced the bulb.  
\*\*C5 SLIGHTLY INCREASES PULSE LENGTH

C4, C5, C6 MAY HAVE TO BE HORIZONTAL  
(I HAVE C5 ON THE FOIL SIDE.)

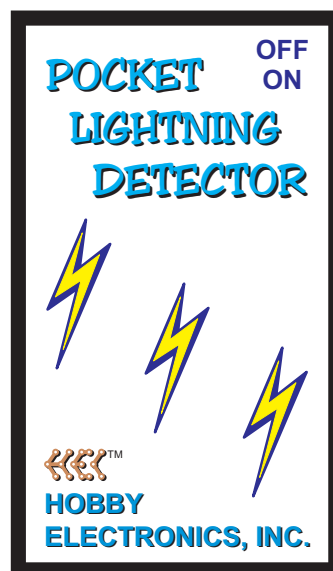
BOARD  
ORIENTATION  
MARKER



PARTS LAYOUT



BOTTOM VIEW



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Lennie Zink  
Bay City, MI

I asked Charles Wenzel if he considered making a pocket version of his Lightning Detector. He e-mailed back and told me that he thought a loop stick antenna from an AM radio would work in place of the coils. I tried it and it worked!

Notice that there are no coils. The circuit board can be made very small. The frequency is on the low end of the AM spectrum, about 500 kHz.

The Pocket Lightning Detector has an LED lighted push on/off switch and a miniature piezo buzzer.

(SMDs drive me nuts!)

