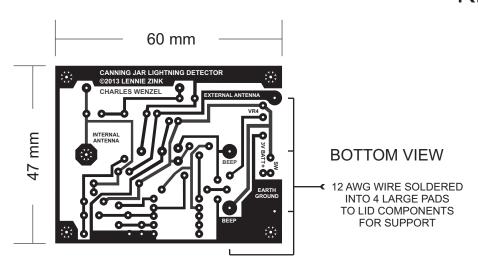
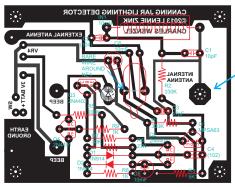


NEW LIGHTNING DETECTOR CANNING JAR VERSION

©2013 Lennie Zink

CAUTION: INDOOR USE ONLY! KEEP DRY



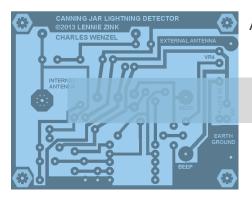


7

GROUND

ANTENNA BRACKET MUST NOT EXTEND OVER PCB TRACES

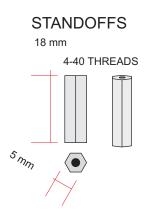
PARTS LAYOUT



AA BATTERY HOLDER IS ATTACHED WITH ADHESIVE

INTERNAL ANTENNA

BOTTOM VIEW with BATTERY PCB



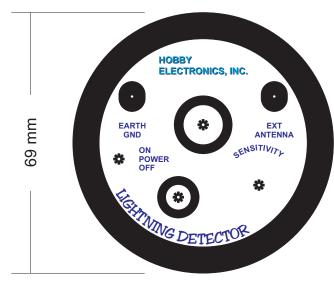
CONSTRUCTION NOTES:

The detector board is soldered to all lid components with 12 AWG solid copper wire. PCB will fit into pint size jars or larger.

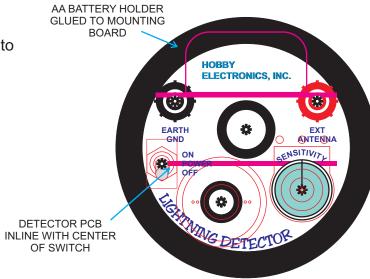
- 1. Print the lid label.
- 2. Cut a blank PCB a little larger than the label.
- 3: Attach the label and clear coat it with Krylon spray in very light coats.
- 4. Sand the lid just up to the black edge and test fit it.
- 5. *Punch hole centers and drill, starting with a very small bit. A round file may be needed to make a close-fitting hole for the antenna.
- 6. Install components into lid.

The first section of the antenna may determine how deep into the jar the PCB can be mounted. Use spacers if needed. (I align the LED with the text on the jar.) Copper wires are bent and cut accordingly.

*If you use pre-drilled PCB material, it may be necessary to drill a small hole and use a round file to get it back on center and make it the correct size. I used PCBs that failed in the process of creating circuits.



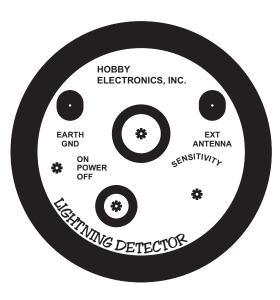
REGULAR CANNING JAR LID SIZED BLANK PCB'S LABEL



LID PARTS LAYOUT

OR ETCH THE LID:
Use "TINNIT™," or bare copper,
then clear coat it.
(I have used both methods.)

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LID MADE AS A PRINTED CIRCUIT BOARD













My wife Kathy and I enjoy canning the bounty of our tiny little garden.

We have several antique canning jars. In my mind I pictured one of these housing the New 3 Volt Lightning Detector that Charles Wenzel designed. It seems to be more sensitive than the original version.

When the LED flashes, the light is reflected and distorted around and through the jar! The beep can be heard throughout the house.

12 AWG WIRE IS CUT TO CENTER THE LED TO THE TEXT OR DESIGN ON THE JAR

