


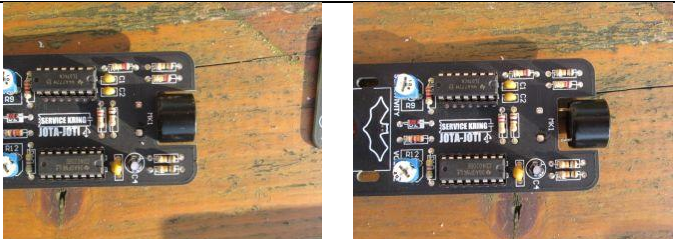




This is a guide on how to build a simple enclosure for your bat-detector or for your bat-beacon. The enclosure is based on 50mm PVC-tubing and PVC-caps.

<p>The main materials</p>	
<p>Cut a piece of tube, the length of the PCB.</p>	
<p>Drill a 16 mm hole in the center of one of the endcaps.</p>	
<p>Mount the piezo-microphone (or pieze-speaker for the beacon) with a little offset (see right picture). Glue the end-cap with the 16mm hole to the tube.</p>	
<p>Slide the PCB in the tube and verify that the LED and the headphone socket “stick out” of the tube.</p>	
<p>Use a piece of cut-off tube to center the PCB in the other end-cap. Mark the position of the LED and headphone connector. Drill the holes for the LED (5mm) and the headphone connector (6mm).</p>	

<p>You may use a countersunk drill to finish the hole from the outside.</p>	
<p>Cut a piece of aluminum angle-stock (or bend a piece of aluminum strip). Drill two holes, one for mounting to the PCB, the other hole for mounting to the cap.</p>	
<p>DO NOT GLUE THIS CAP TO THE TUBE!!!!</p>	
<p>The battery can be mounted using a few rubber bands.</p>	
<p>.Alternatively a switch could be added to the circuit. This allows easy switching on/off of the detector (or beacon). The battery can also be mounted using tie-wraps.</p>	
<p>The final result.</p>	