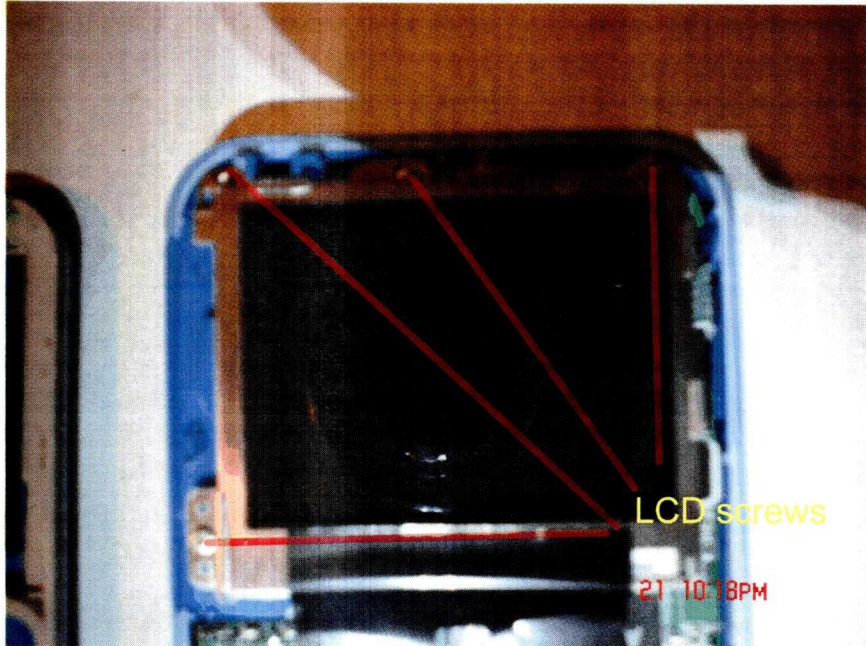
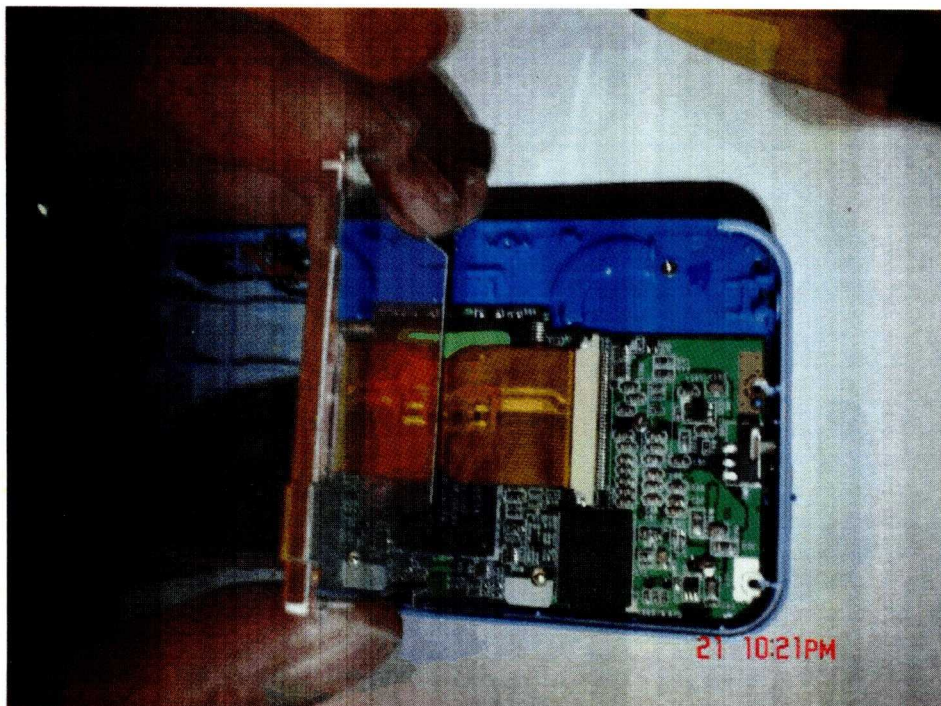


Remove 6 Camera screws. The first screw is the bottom under the sticker. Screws 2 & 3 are in the battery compartment. Screw 4 is under the plastic circle above the SD card. Screw 5 is on top under the plastic circle. **Very important that you use this short screw when putting the cover back on or USB will not flip out.**

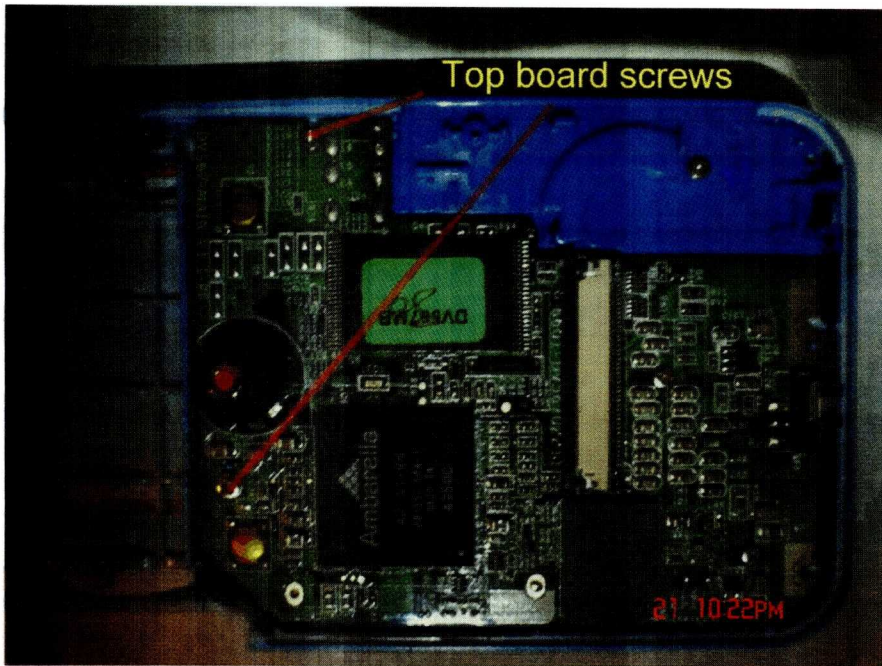
Next, remove the LCD by removing the 4 LCD screws at the top and side.



Carefully remove the LCD screen just like you would with a Jazz by pushing the clips forward and removing the ribbon. Carefully remove the LCD and watch the tape at the bottom where it is taped onto the board.



Next remove the two screws securing the top board. The other two screws you will see on this board under where the LCD would be, are the back of the lens mount. You will remove those when you are ready to take the lens off.

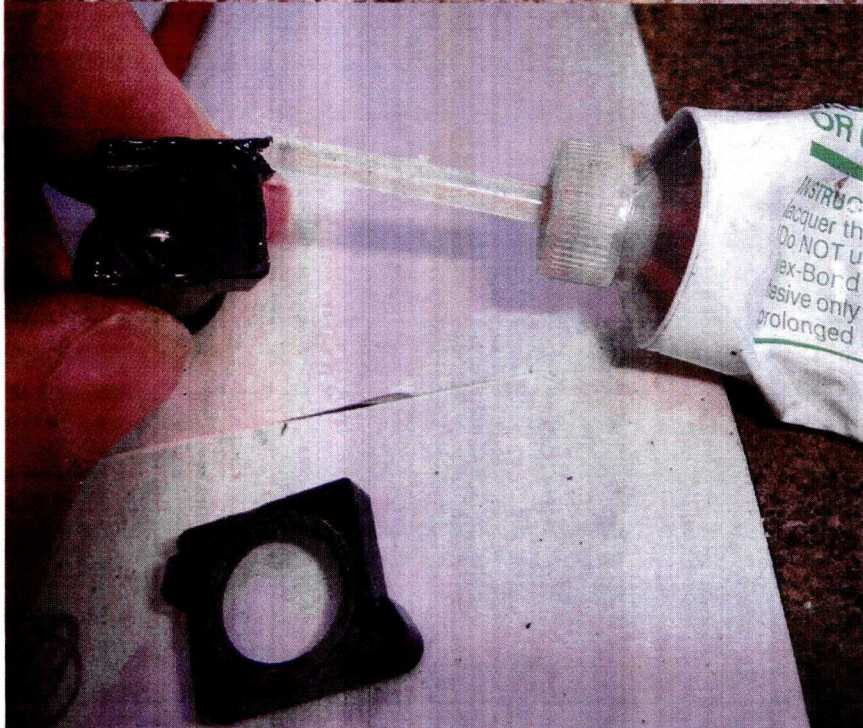


Next carefully lift this board out by working from where the top right screw was. Gently pry it up there and then move down. Gently slide the board out from top to bottom (as it looks above) away from the AV/HD port. As you get the board out you will see that it is connected to the USB port via a servo underneath the top board. Gently pry this apart. I use my fingernails and move side to side.

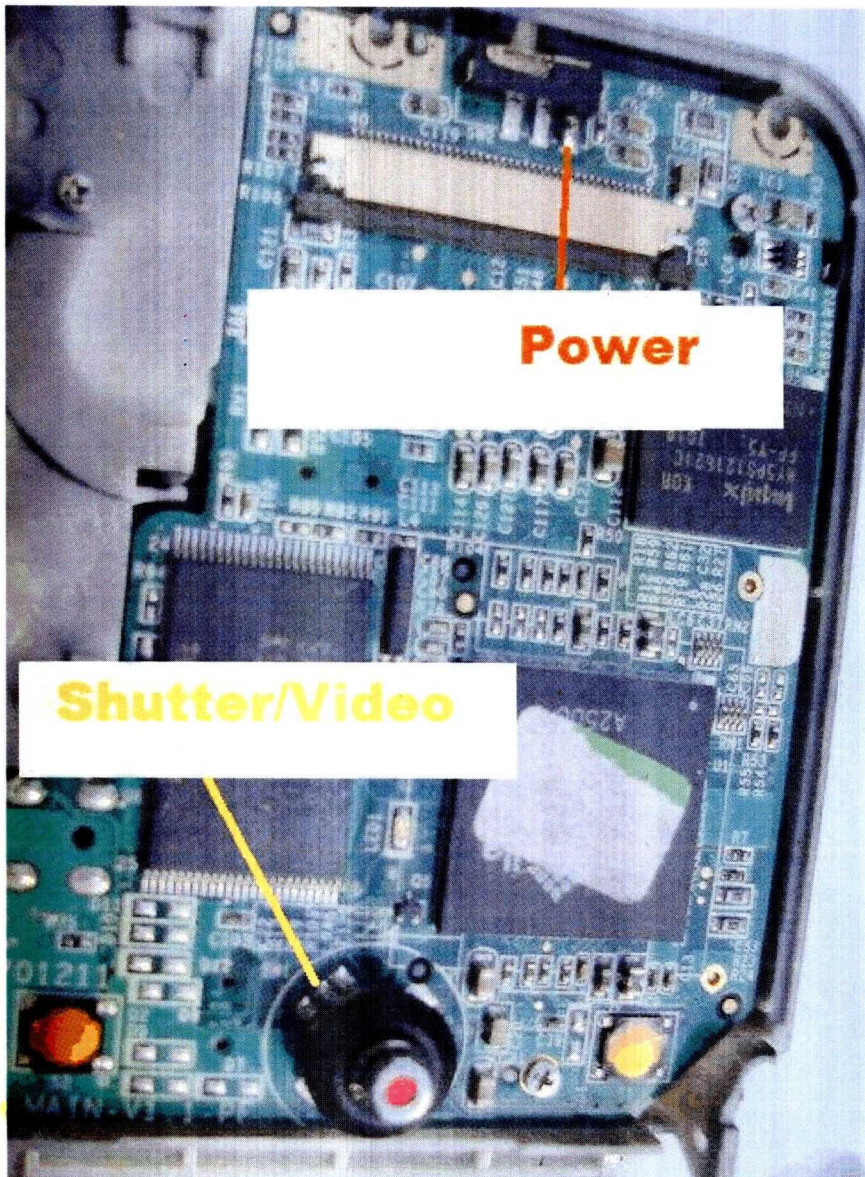


At this point, go ahead and take the lens off by removing the screws as described above. Remove the two screws holding the lens to the lens mount. Next is the hard part of this modification.

You will be left with the base which is shown on the left side of Treetop's picture below. Next, take a small wire clipper and clip off the lip which rings the hole of the mount which is between the two prongs shown below. Then, using a small metal file, file off the rest of the lip. Do not cut off the prongs!! Then use a glue (I use Gorilla glue) and center the bb224 lens in between the two prongs. One corner on each side of the bb224 mount will just touch each long prong. Double check the space on each side and let it sit. It does not take much for this to get off center and affect the picture. I did not put pressure on it and have had no problems. If you do try to put pressure on it, make sure it is even pressure, otherwise it will slip.

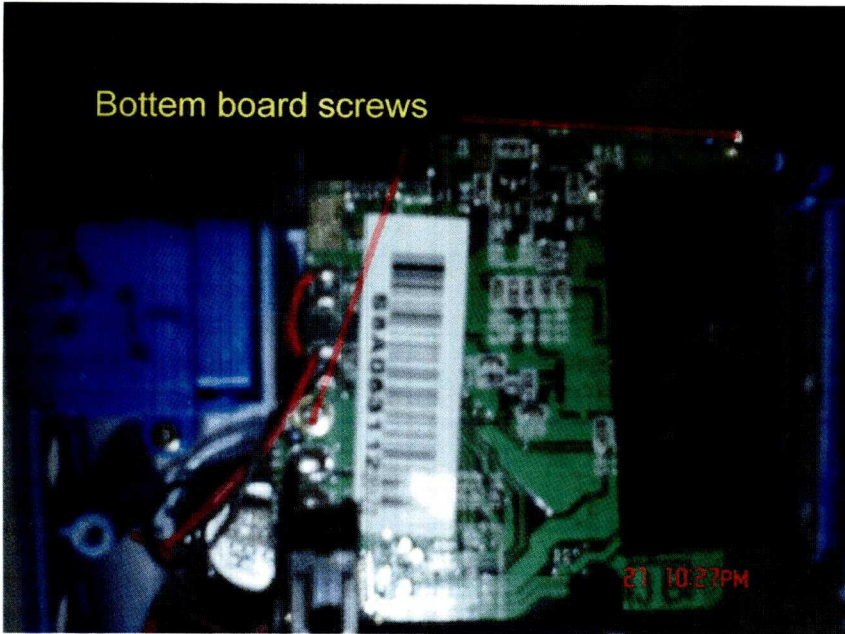


This will have to set for 24 hours so go ahead and do the hack. Treetop's picture below shows where to solder the wires. They can then be routed out through the tripod hole to your servo connector.

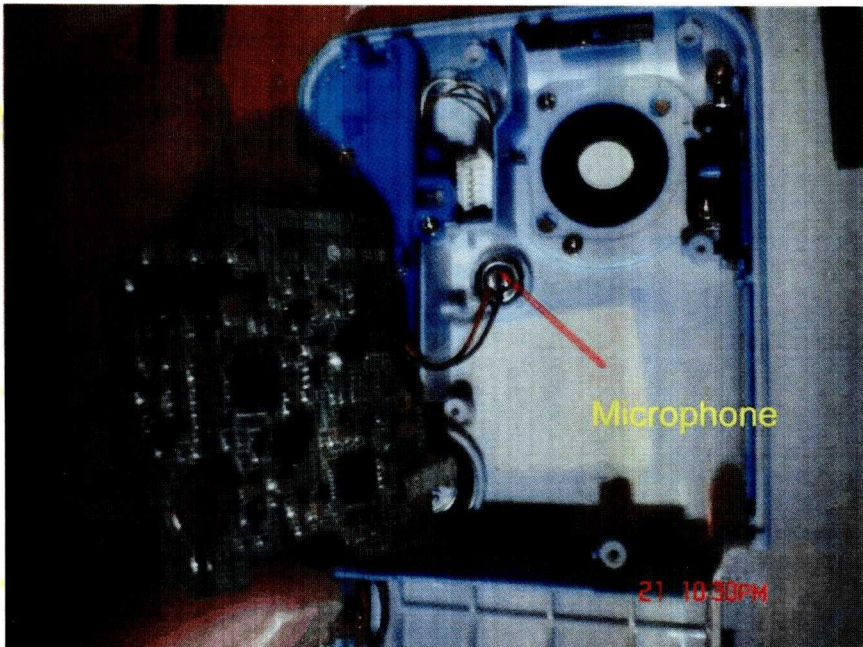


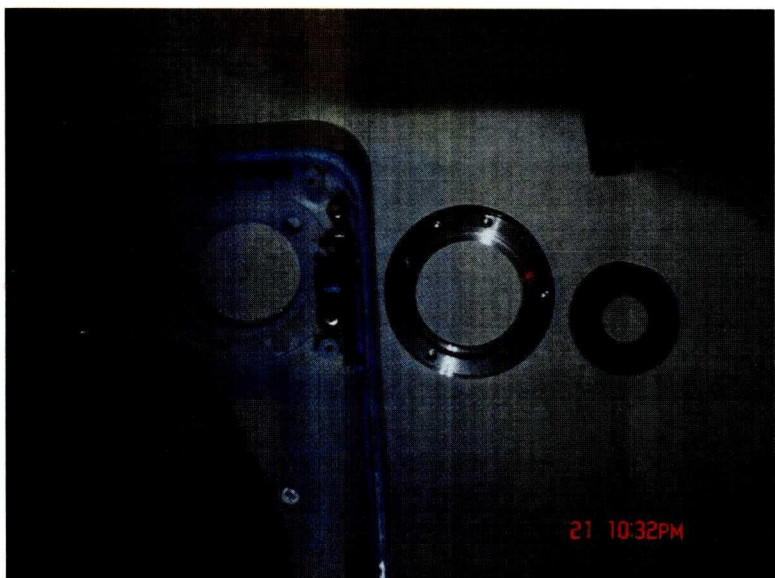
Below is the hack for modular contacts, you can decide how many pins you need based on whether you are running sound and/or externals.

First remove the top board.



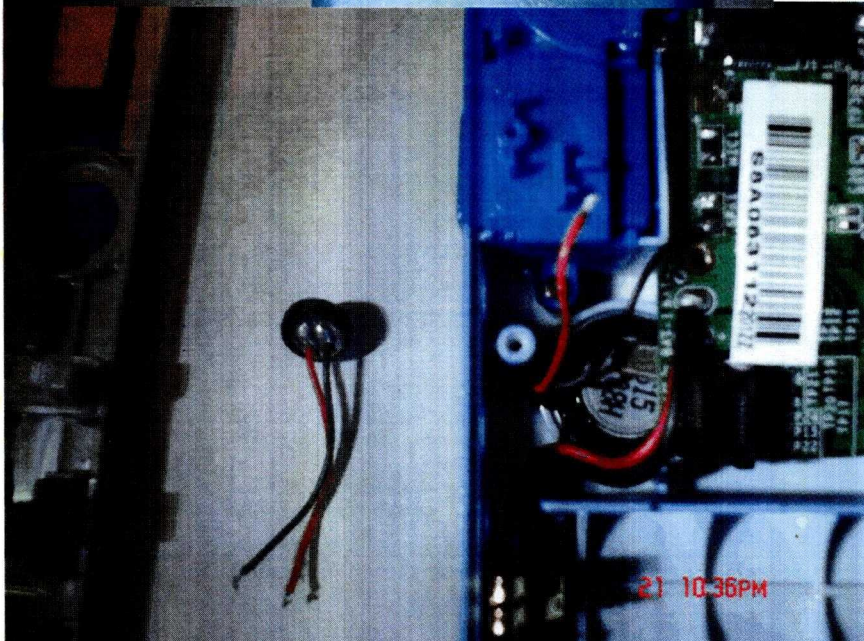
Lift this up to expose the mic and the screws needed to remove the lens glass. Gently lift out the mic then unscrew the three screws on the lens glass and then remove the metal ring in front and drop out the glass and reinstall the metal ring.





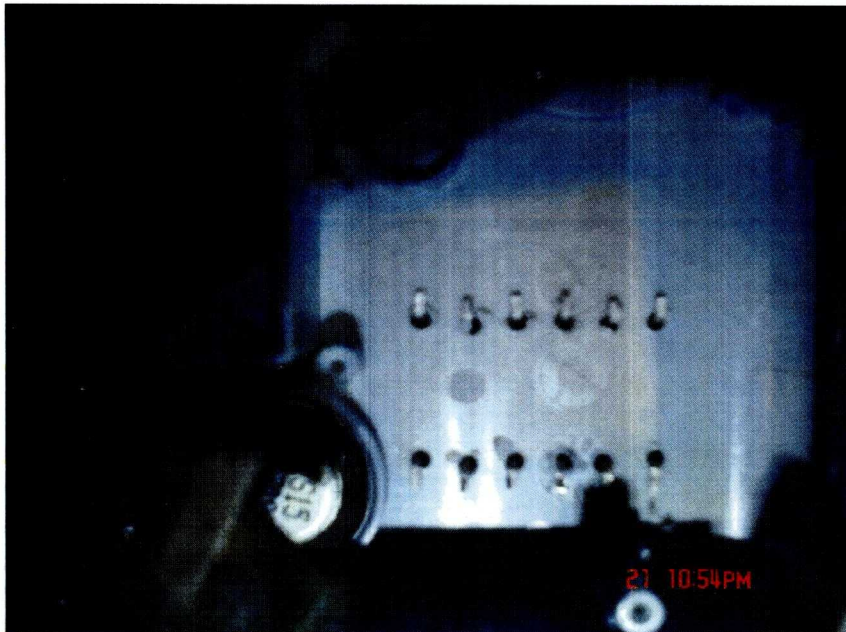
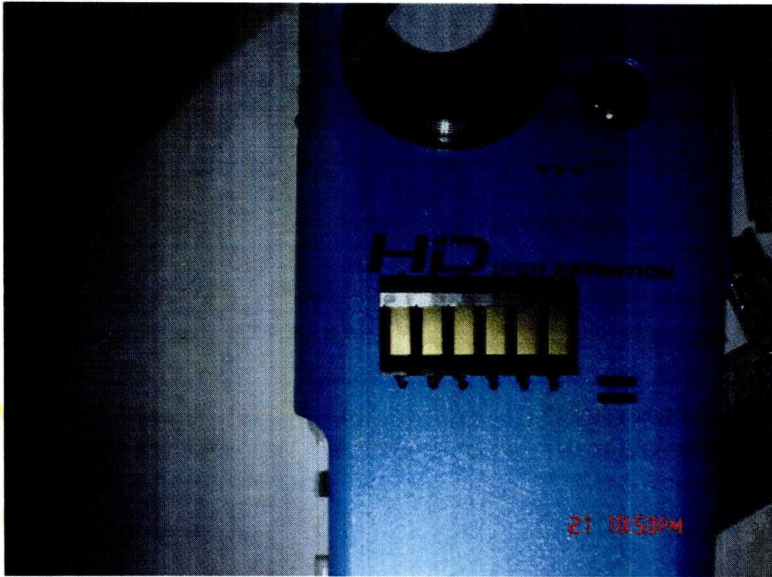


Now unsolder the mic wires from the bottom board.



In the picture above, it show only the red speaker wire which has been unsoldered from the board. I usually drill a small hole just above the screw mount pictured there and underneath the AV port and route that red wire going to the speaker and a new red one which has been soldered where in the open spot. I then wire a two position switch there so that I can turn the sound off and on. This could also be done with one extra position on the mouser.

Now mark your spots on the front for the modular connector, drill your holes and put the connector through.

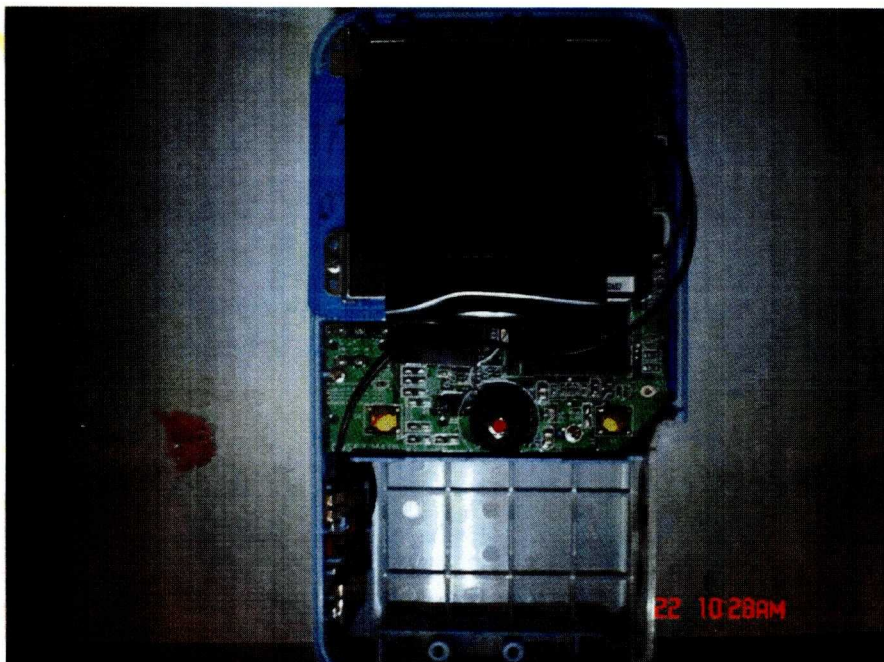


Wire your camera however you are comfortable. In the picture above, I run wires as follows from right to left. Power, shutter, common/negative, skip, positive mic, negative mic.

Run the wires for the camera hack up the right side and up right by where the top right LCD screw goes in. The mic wires will run up the bottom board over the top and curved back to where they need to be soldered to the board.



At this point go ahead and screw the lens back on the board, assuming the glue is dry. Put the top board back on making sure to insert the AV/HD ports in first. Gently work it back and forth as the lens will get caught up on the right side of the hole. Once the top board is in, then go ahead and solder the power, shutter and negative wires as shown in Treetops pictures above and mine below. I did not show the camera's power, but it is in the same location as Treetop's.



Remount the LCD screen and re-assemble.