

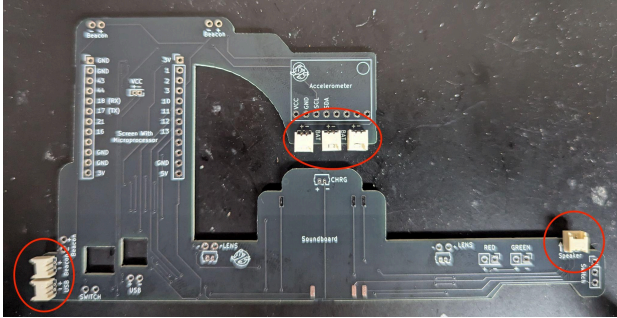


Pixel Props Store

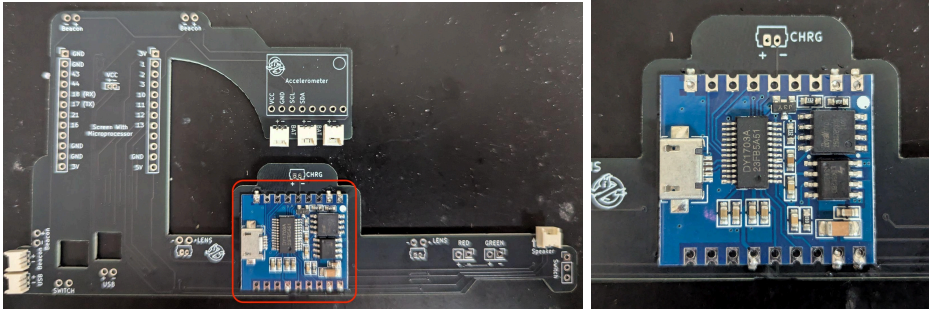
Ecto Goggles Light & Sound Kit

Electronics & Components Installation Instructions

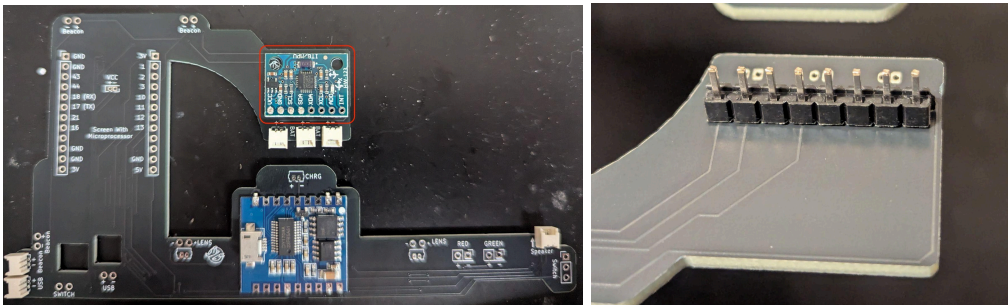
1. Start with the angled pin connectors. Solder these into the designated places for the USB connector, the beacon connector, the speaker, and the battery connections.



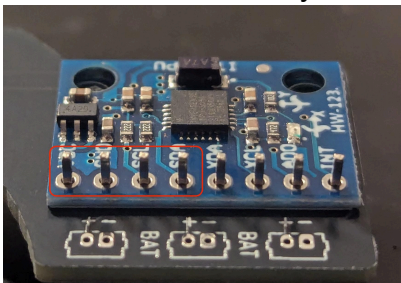
2. Attach the soundboard by aligning the surface mount pads on the soundboard to the pads on the PCB. Make sure there is no gap between the PCB and the soundboard. Assure there is enough solder joining the pads to the soundboard. The soundboard orientation must match the picture.



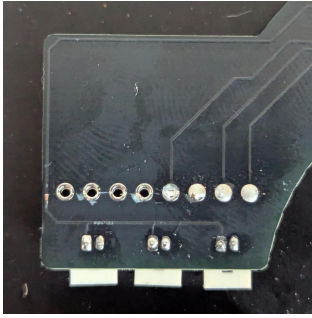
3. Next, connect the accelerometer. Feed the provided header pins through the back of the PCB.



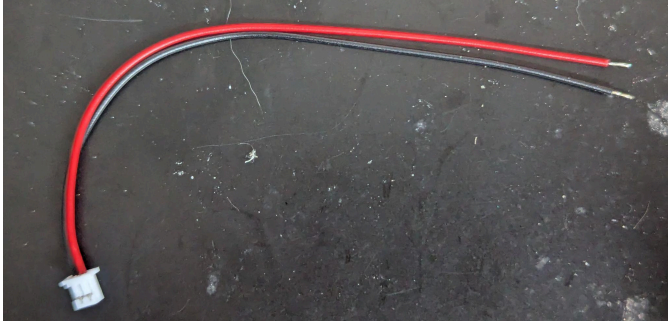
4. Slide the accelerometer onto the pins and solder the pins to secure the accelerometer. Only the first four are used so you can solder just those four.



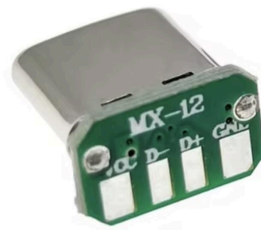
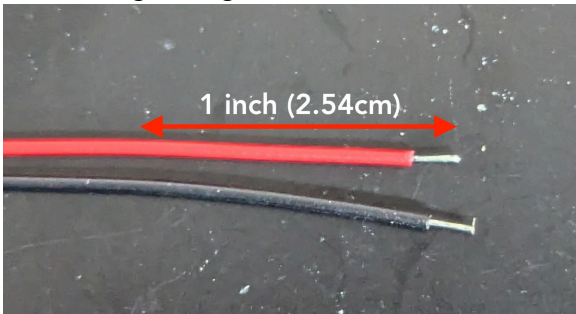
5. Snip the remaining length of the pins off flush with the accelerometer on the top and the bottom then solder



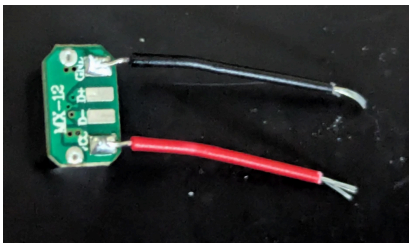
6. You will need two small strands of wire for the next step. In the microprocessor and screen box you'll find a connector wire. You'll use this wire later, but you can clip some of the wire off to use.



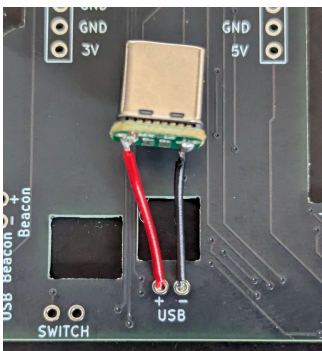
One will be positive and one will be negative. Cut them no more than 1 inch (2.54cm) long then find the right angled USB-C PCB.



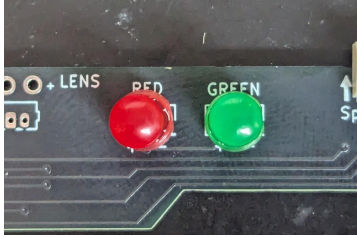
7. Solder one wire to the GND on the USB-C PCB and the other wire to the VCC on the USB-C PCB.



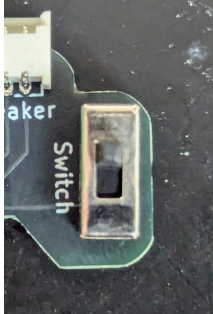
8. Next solder the assembled USB-C PCB and wires on to the main PCB board



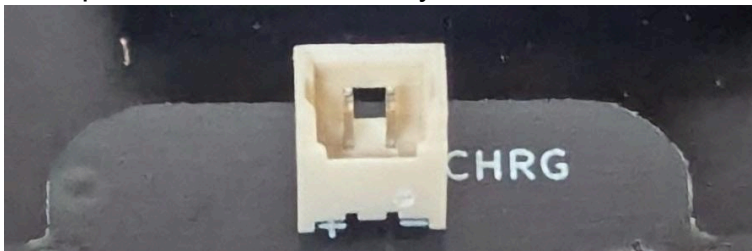
9. Insert and solder the red and green LEDs into the noted spaces making sure the longer LED lead wire is inserted into the positive solder pad hole and the shorter lead is inserted into the negative solder pad.



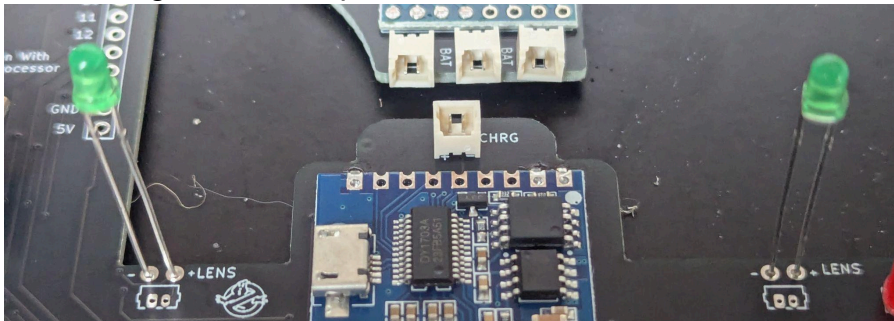
10. Insert the switch into the designated space and solder into place. Pictured is the off position.



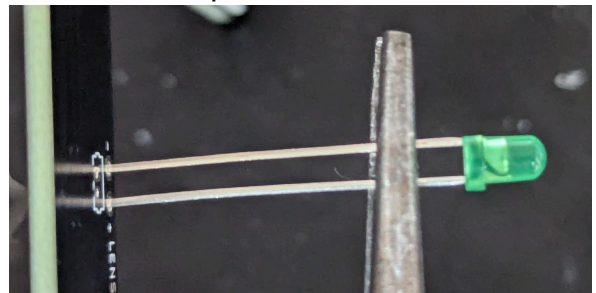
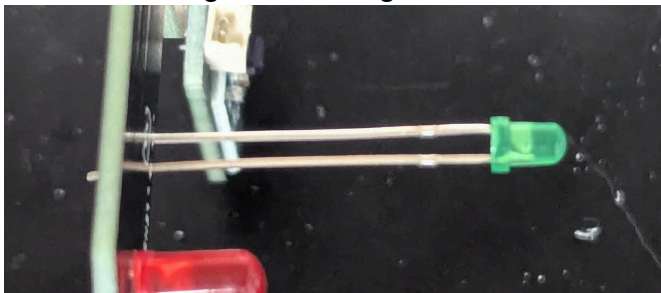
11. Solder the charging connector into its designated space paying close attention to its positioning. The open side faces towards you. This must be correct or charging will not work.

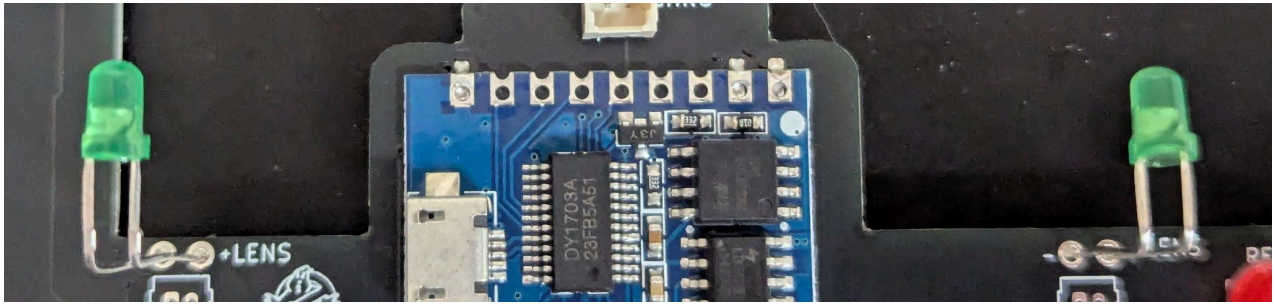


12. Insert the green LEDs with the long lead wires into the left and right lens areas making sure the longer LED lead wire is inserted into the positive solder pad hole and the shorter lead is inserted into the negative solder pad.



13. Once the LEDs are soldered into place, use a pair of needle nose pliers to bend the top of the LEDs to 90 degrees starting at the two lead marks towards the top.

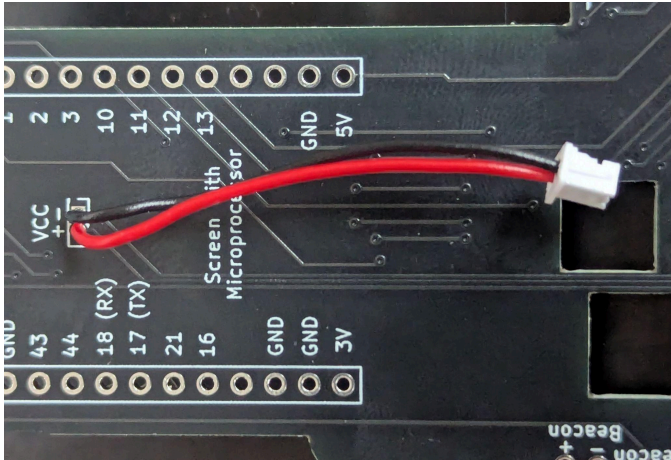




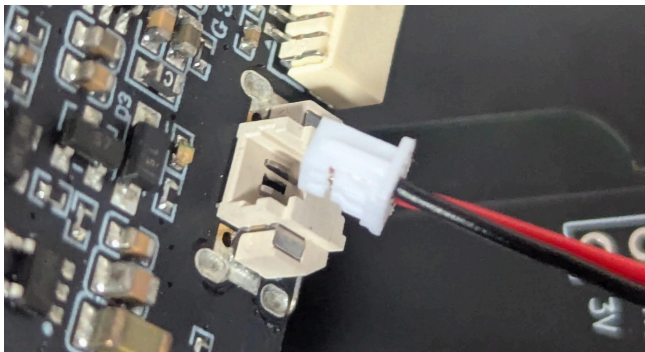
- 14. Once they are bent at 90 degrees, bend the entire LED and lead up 90 degrees so that it sits level to the main PCB.



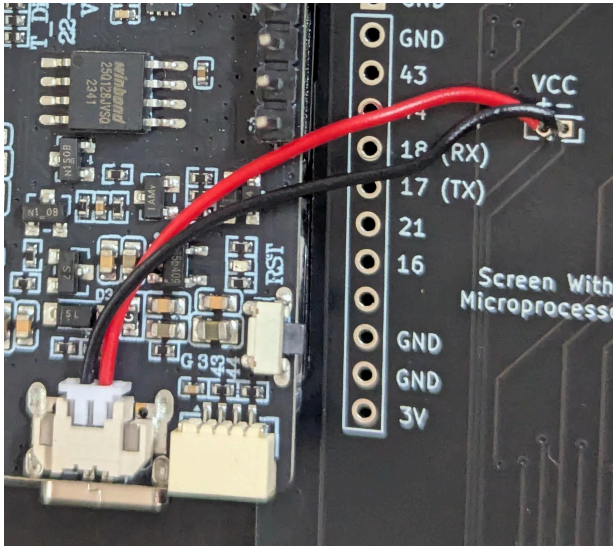
- 15. Cut the remaining connector wire that you used earlier about 2 inches long and solder into the VCC spot on the main PCB.



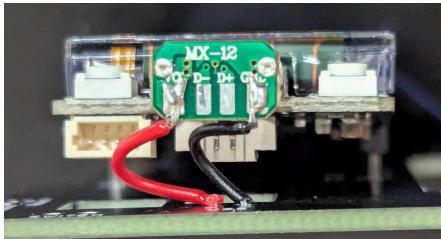
- 16. Connect the wire connector to the back of the microprocessor and screen being careful not to bend the wires inside the female connector.



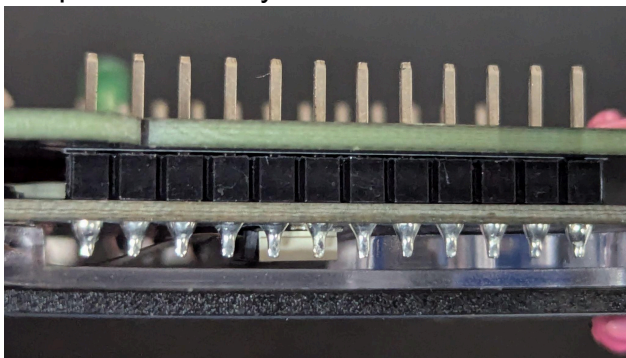
Take special care not to hit or knock off any of the capacitors or other components on the back of the microprocessor in this step.



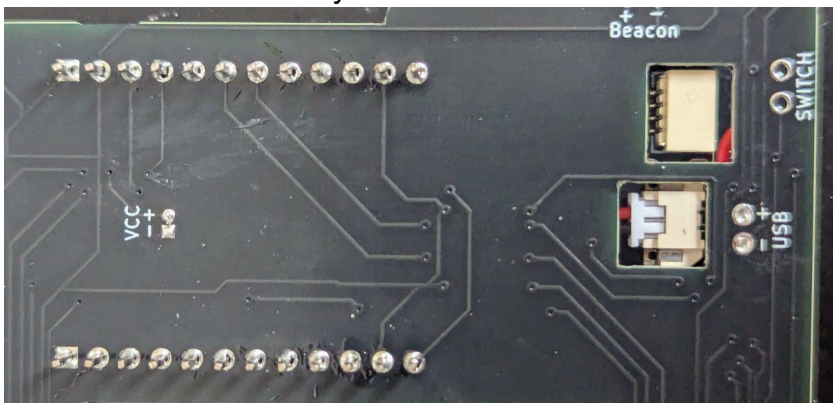
17. Connect the USB-C PCB to the microprocessor and screen



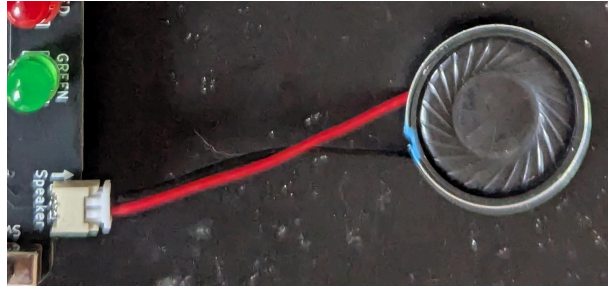
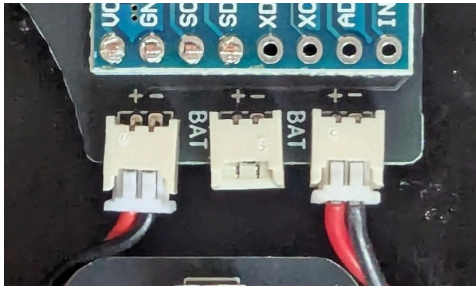
18. Next, insert the microprocessor into the designated holes and space on the PCB. Make sure there is no gap between the black header spacer and the PCB. You may use a clip to maintain this position while you solder.



19. Solder all pins for the microprocessor and use wire cutters to remove the remaining pin lengths as close to the PCB as you can.



20. You may now connect the speaker to the speaker connector and the batteries to the battery connectors.



21. Test the kit by turning it on. You may need to charge your batteries before using (the bootup sequence or battery icon will let you know if charging is needed).



22. Test all movements of the kit and make sure the bar graph animations work correctly as well as the sound. You should be able to pivot the PCB up or down at around 45 degrees to trigger the sound change and the bargraph to green.

If there are any questions or you need any support help, please don't hesitate to reach out to us at support@pixelpropsstore.com or message us on our Facebook page.