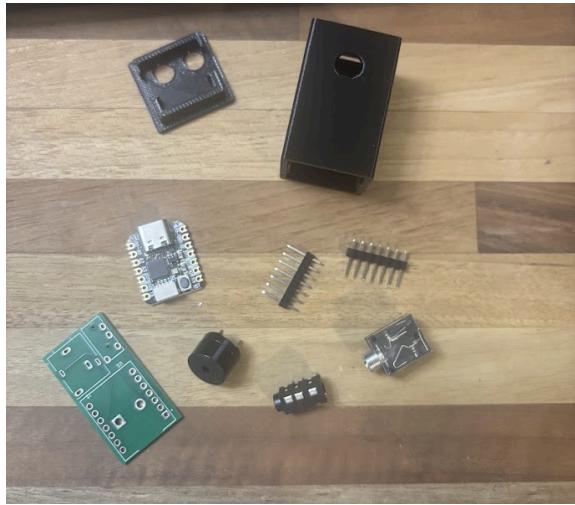


Assembly Instructions for DIY Kit purchased from www.vailadapter.com

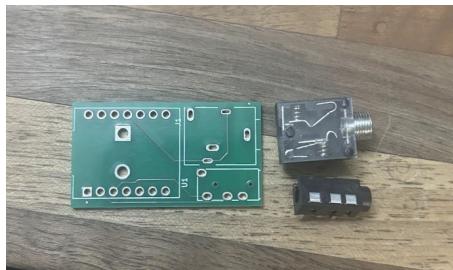
Updated: 6/9/2025

You should have the parts, pictured and listed below:

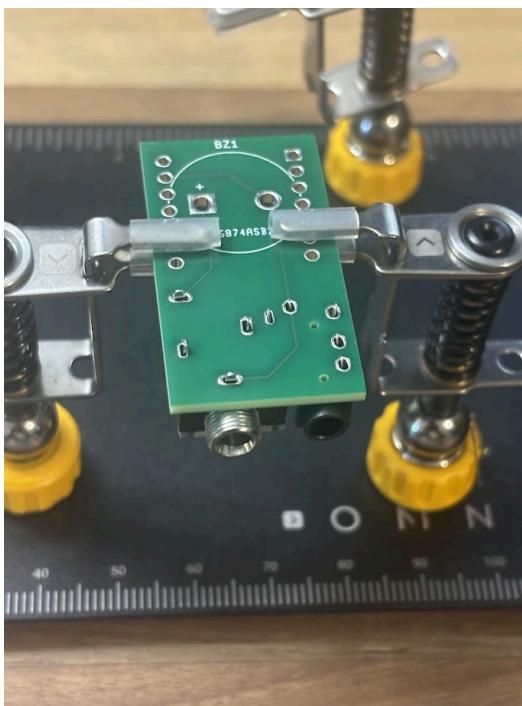
- 1 3d printed case and case lid
- 1 arduino preflashed with Vail firmware
- 1 Basic V2 PCB
- 1 buzzer speaker
- 1 switching aux jack
- 1 standard aux jack
- 2 headers for the arduino



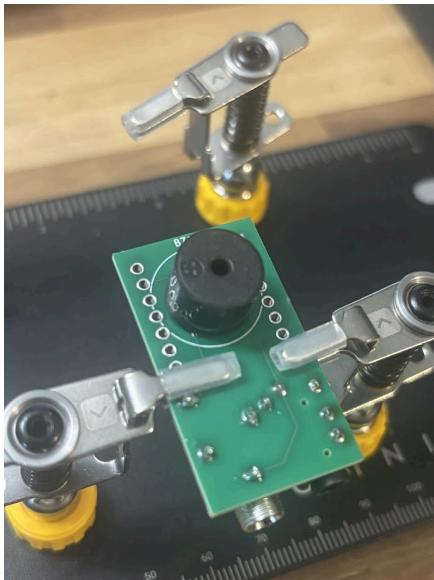
You will want to start with these three parts pictured below.



Snap the aux jacks into the PCB, being very careful not to bend the pins when inserting it into the arduino. They should hold themselves in well, but make sure they are firmly flush to the PCB when soldering them from the other side.

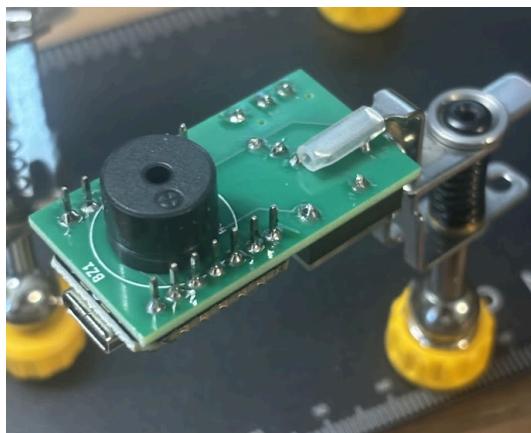
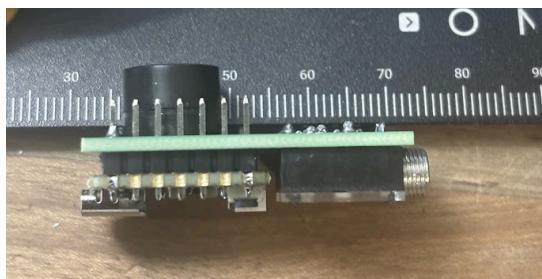
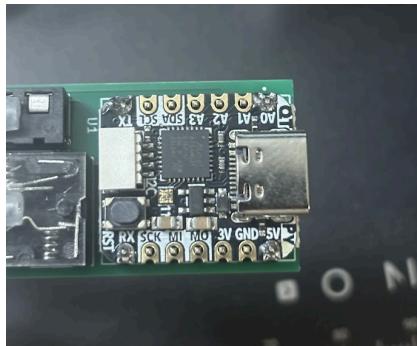
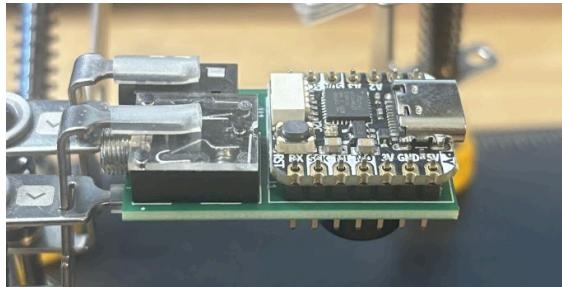


Next, place the buzzer here:



Solder the buzzer leads from the other side, and snip them off once soldered. Make sure the buzzer is flush pressed against the pcb. You might have to hold it together with one hand or clamp and solder with the other. If it is not flush, it won't fit in the case later.

Next you can place the arduino headers and arduino on the pcb. The longer legs of the header pins should be on the buzzer side. It is easiest to place the headers in and the arduino on it, and solder the four corners to get the arduino attached to the headers in alignment. Then flip it over and do the four corner pins on the underside the same way to attach it all to the PCB. Then solder front and back after that since it will hold itself to the board that way. It is really important the arduino and headers are tightly soldered to one another and aligned to fit in the case properly.



Then test that it works BEFORE you put it in the case. Once it is in the case it will not come back out easily. Fix any solder joints if you have issues. The arduino is preflashed with the correct firmware so no need to do that during assembly.

When inserting the assembled pcb into the case, it will be a very tight fit. Make sure the usb c is aligned to the right orientation, then slip the pcb into the tracks in the case. You may need to use some force, but try to avoid using any tools as they may break components or the case. Once the device is all the way in the case, snap the end of the case into the open end and you are all set!