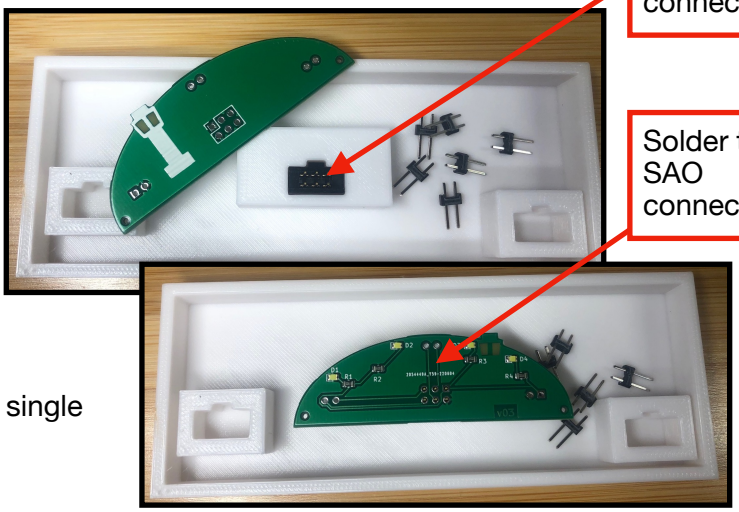
Aerospace Village Badge 2022
Assembly Instructions

Components:

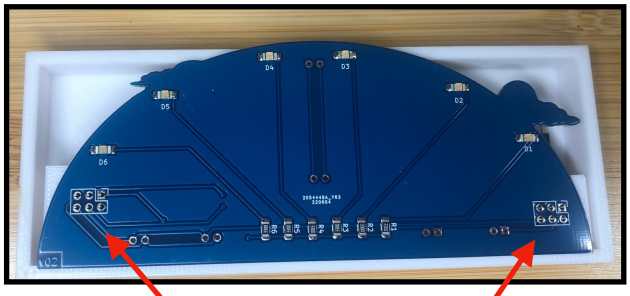
- Green PCB - Earth
- Blue PCB - Sky
- Black PCB - Space
- Battery Holder
- Piece of Double Stick Tape
- x5 SAO Female Connectors
- x6 pairs of terminal headers

1. Place the SAO into the provided jig.



2. Solder the Green PCB (face down) to the single SAO connector.

3. Solder the Blue PCB (face down) to x2 SAO connectors using the provided jig.



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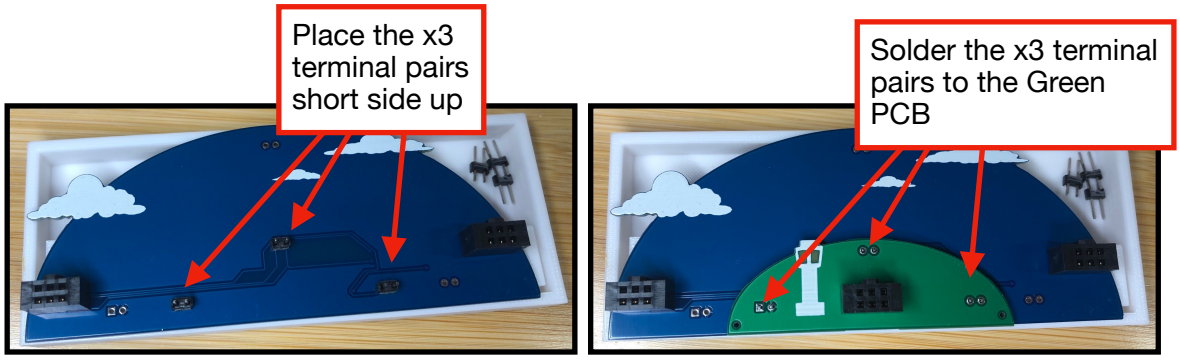
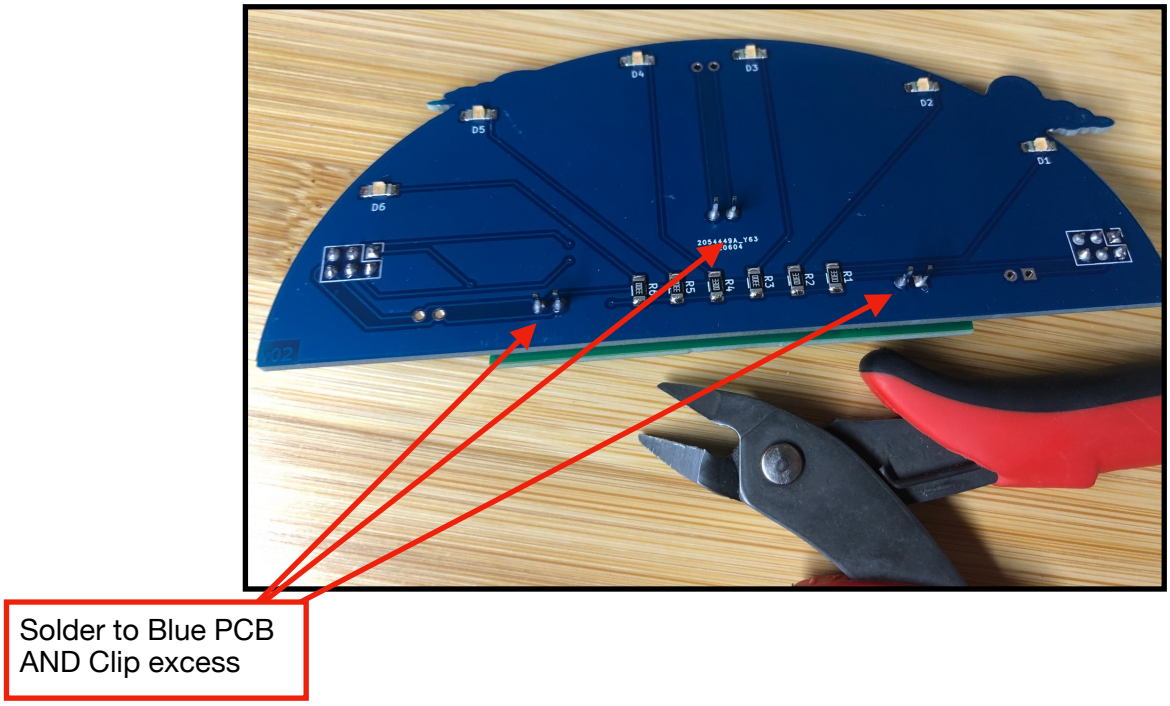
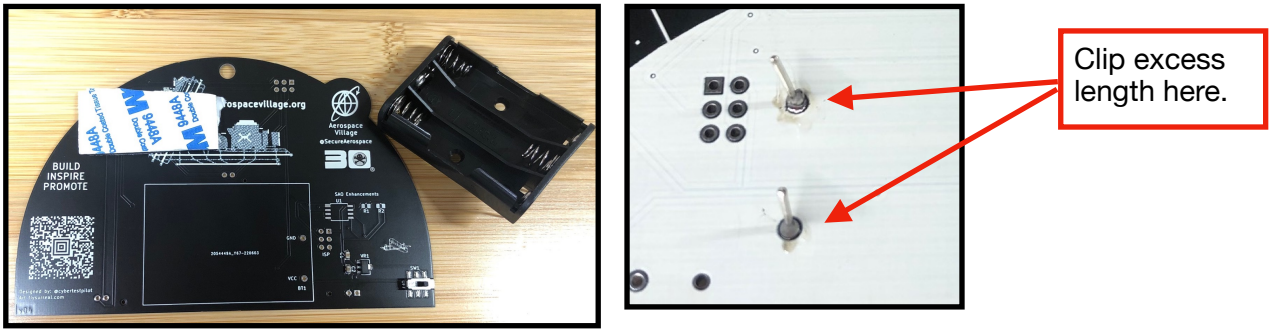
4. Solder the top x3 terminal header pairs to the Green PCB using the Blue PCB as a guide.



5. Solder the back of the x3 terminal header pairs to the Blue PCB using the jig to hold the Green PCB SAO in place. Once completed clip the excessive terminal pin lengths.



6. Use the double stick tape to place and hold the battery pack in place to the Black PCB. Solder the battery pack to the Black PCB and clip the excess leads once complete. The jig provided can be used to stabilize the PCB during this step.



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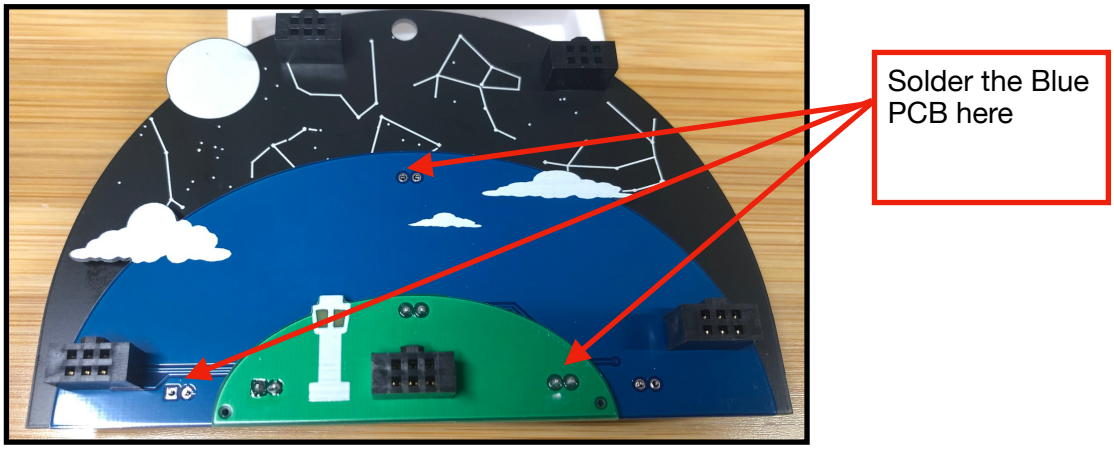
7. Solder the Black PCB (face down) and solder to the x2 SAO connectors using the provided jig. This step is very similar to step #3 except with the Black PCB and different jig are used.

8. Using the Black PCB as a jig solder the x3 terminal header pairs to the Blue PCB. The jig provided for the Black PCB can also be used to stabilize and support this step.



9. Apply power at this point to verify that x6 Violet LEDs illuminate on the Blue PCB and x4 White LEDs illuminate on the Green PCB. This can be accomplished by applying a power source to one of the SAOs connectors present on the Black PCB. This will route power to the entire assembly provided there is contact made between the Black and Blue PCBs at the lower left terminal pin connector.

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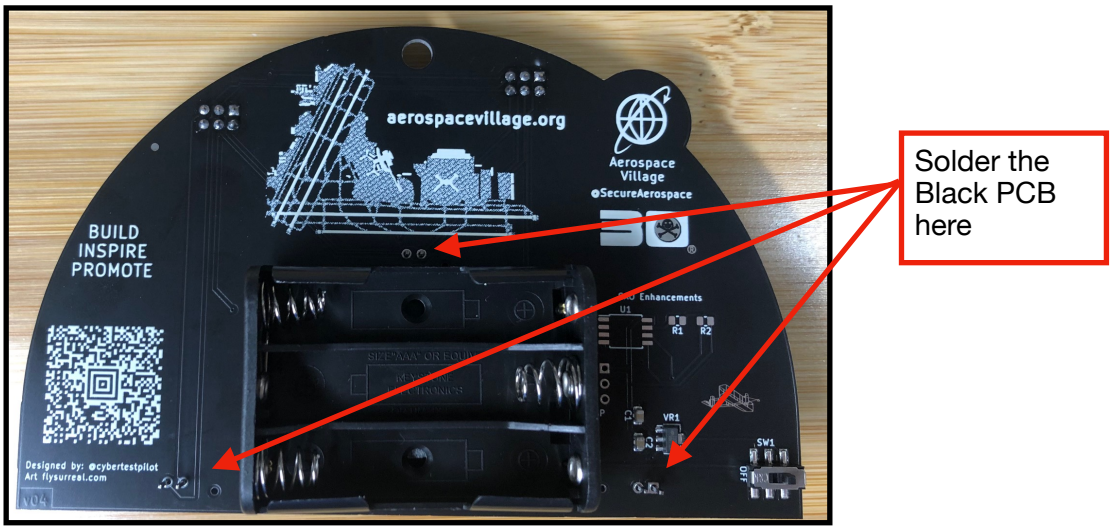
10. Solder the x3 terminal header pins to the back of the Black PCB.



11. Perform final operational checkout by again applying power to any available SAO connector.