

S4

SMALL SATELLITES FOR SECONDARY STUDENTS

Flight Board
pre-assembly briefing

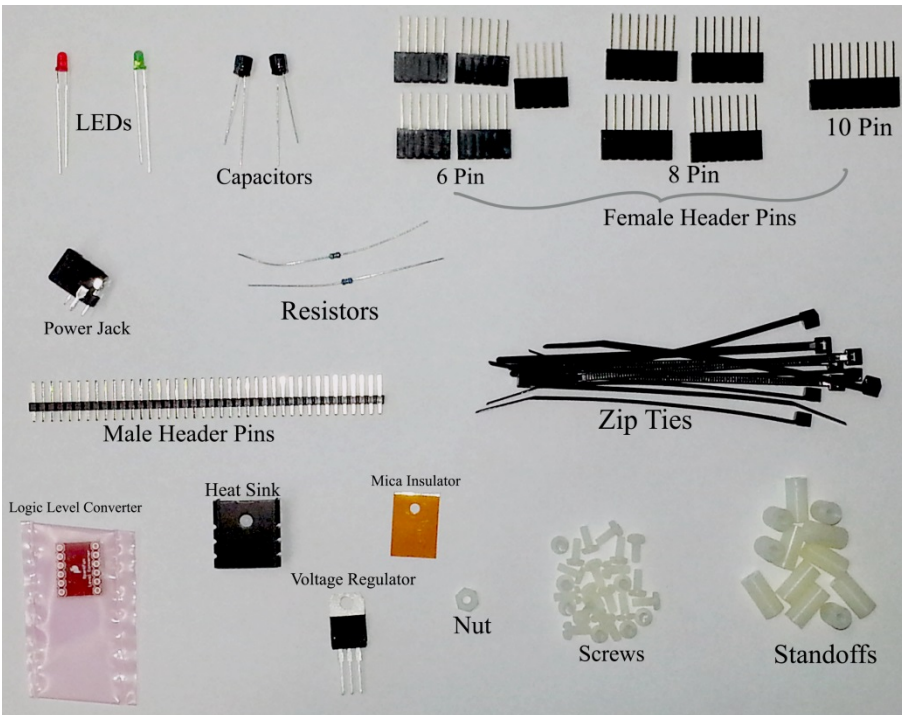


Kevin John

Sonoma State University



Prepare Tools and Materials



Layout payload components on top of the provided image for easy reference



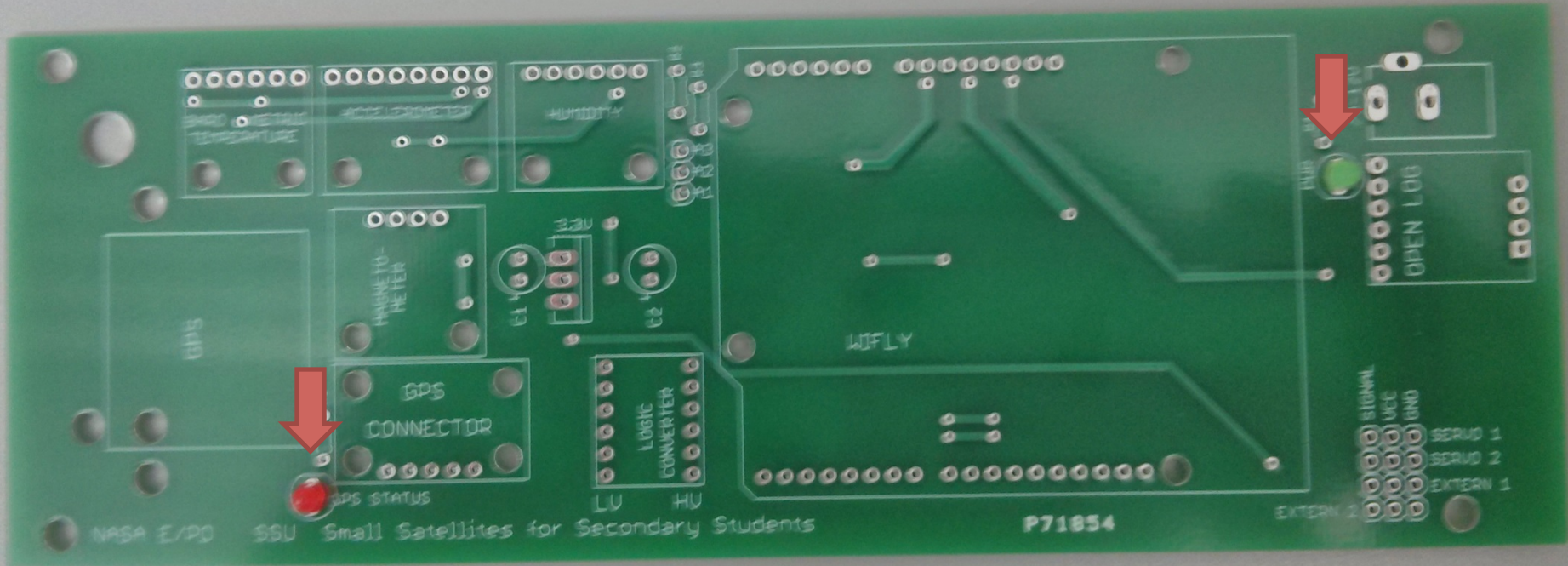
Layout tools similarly to provided image for easy reference



Assembly Notes

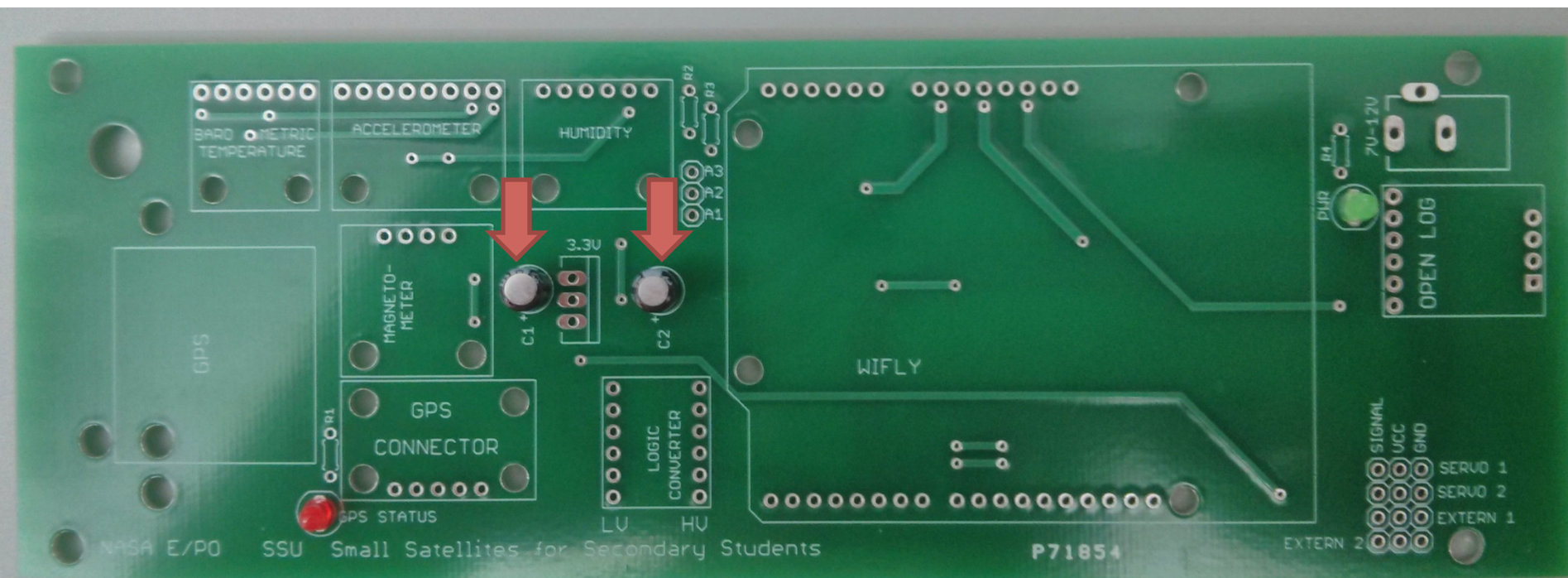
- Parts are attached to the board by soldering
- All parts are put through the top of the board and soldered on the back
- Use caution when clipping leads to ensure they are supposed to be clipped

Assembly Overview



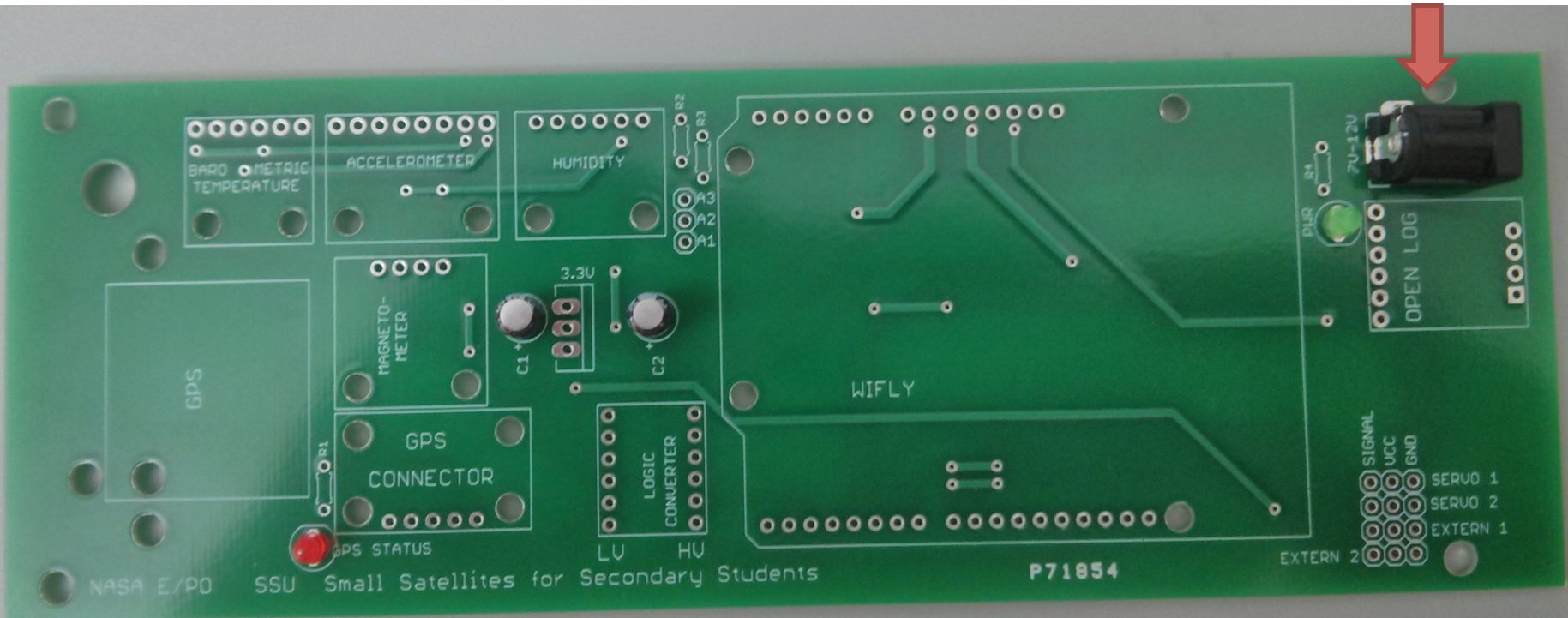
Step 1 – Attach LEDs

Assembly Overview



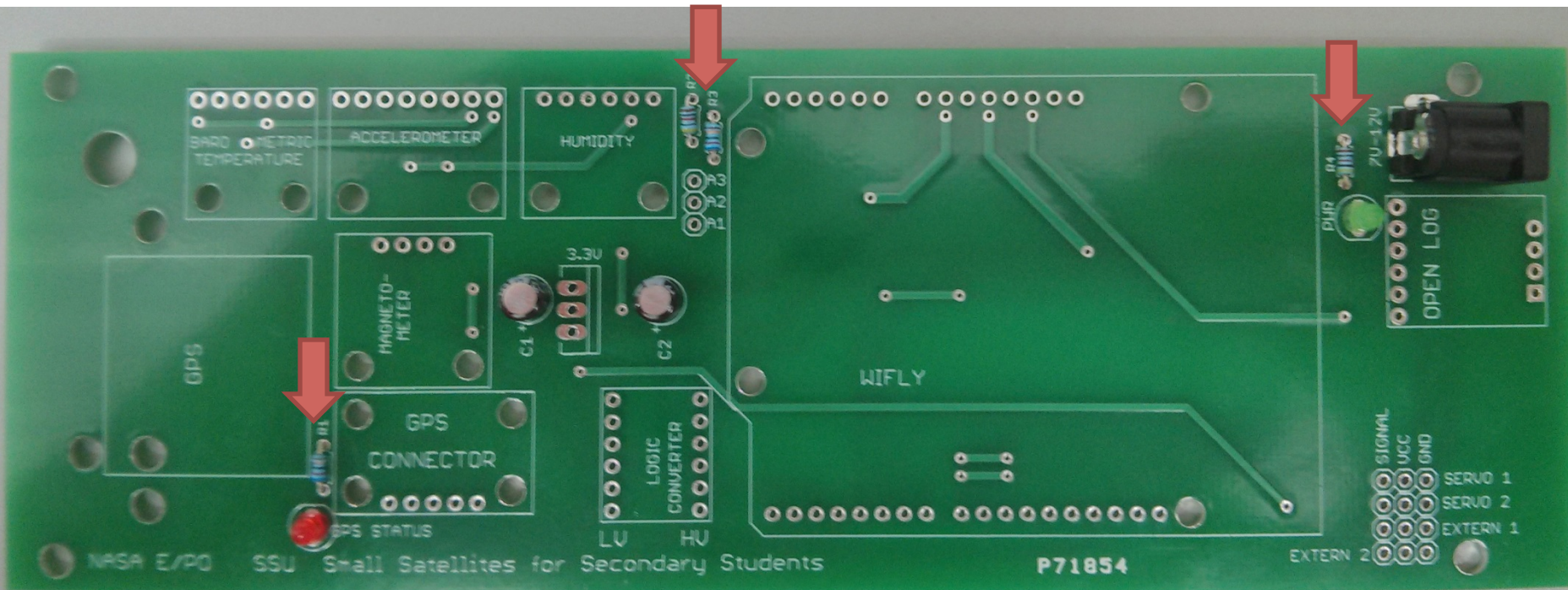
Step 2 – Attach Capacitors

Assembly Overview



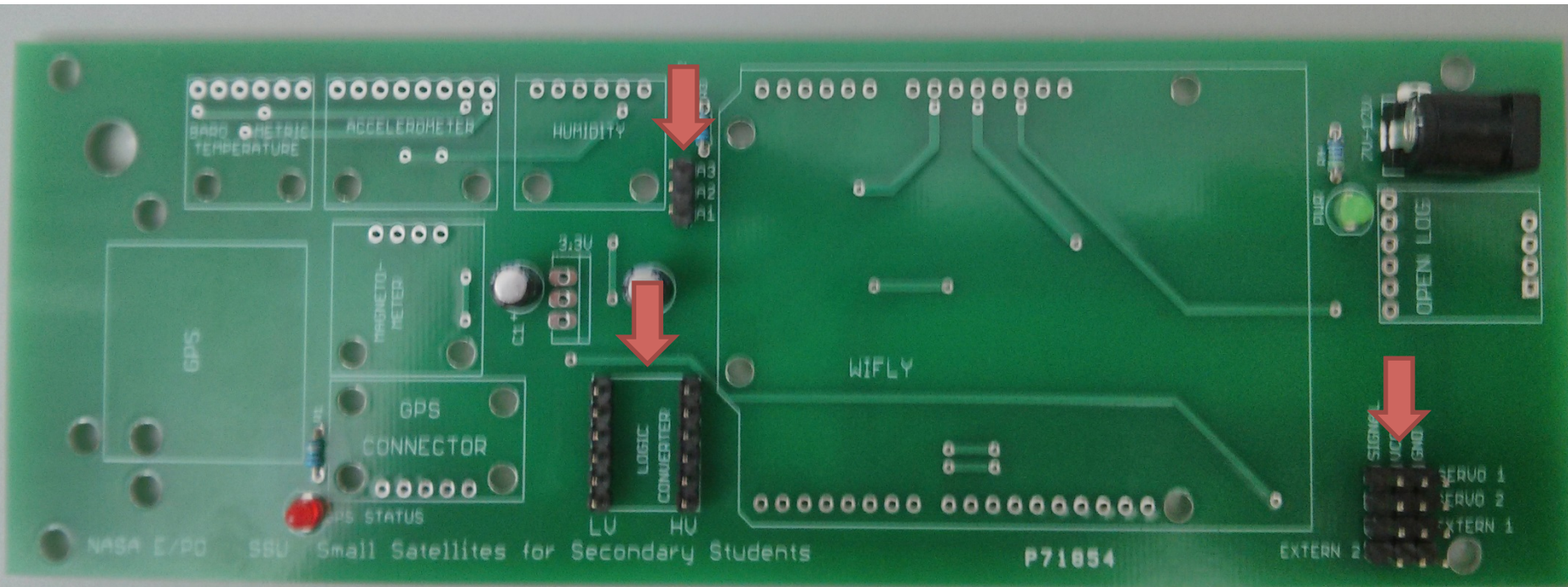
Step 3 – Attach Power Jack

Assembly Overview



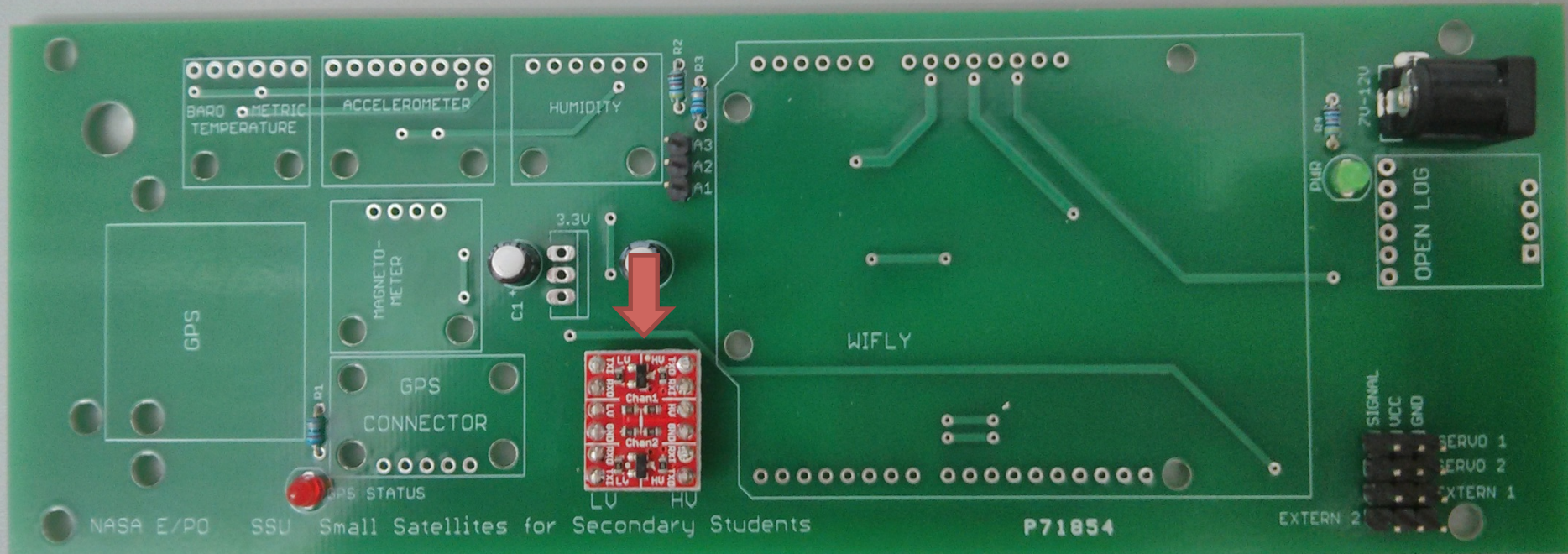
Step 4 – Attach Resistors

Assembly Overview



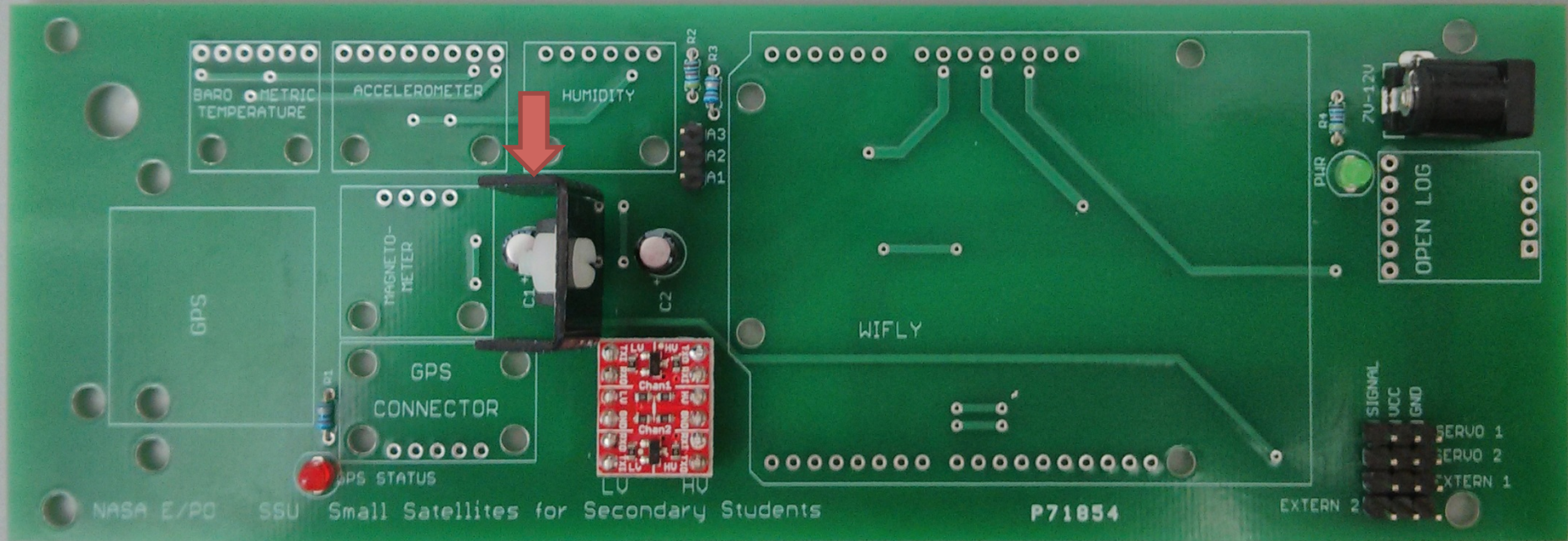
Step 5 – Attach Male Header Pins

Assembly Overview



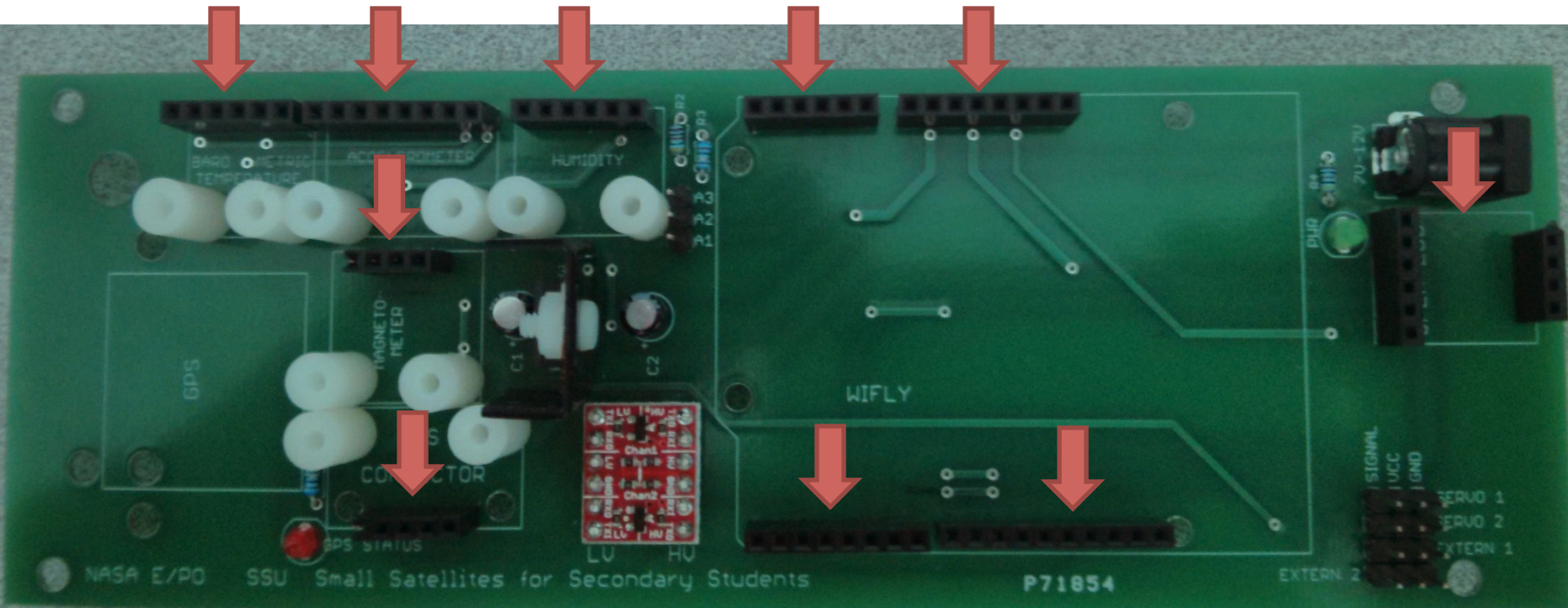
Step 6 – Attach Logic Level Converter

Assembly Overview



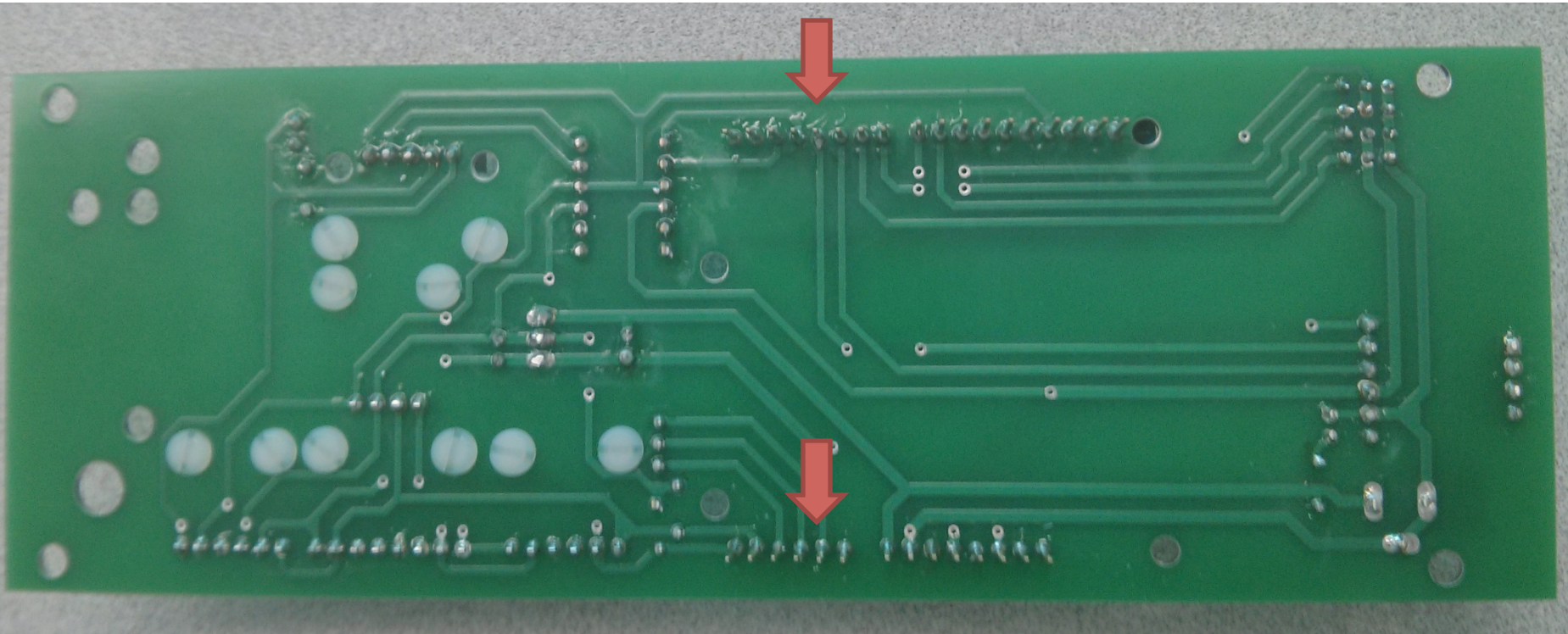
Step 7 – Attach Voltage Regulator

Assembly Overview



Step 6 – Attach Female Headers/
Standoffs

Assembly Overview



Back of payload with uncut pins