

Harvest Geek Sensor Station PCB Assembly Guide

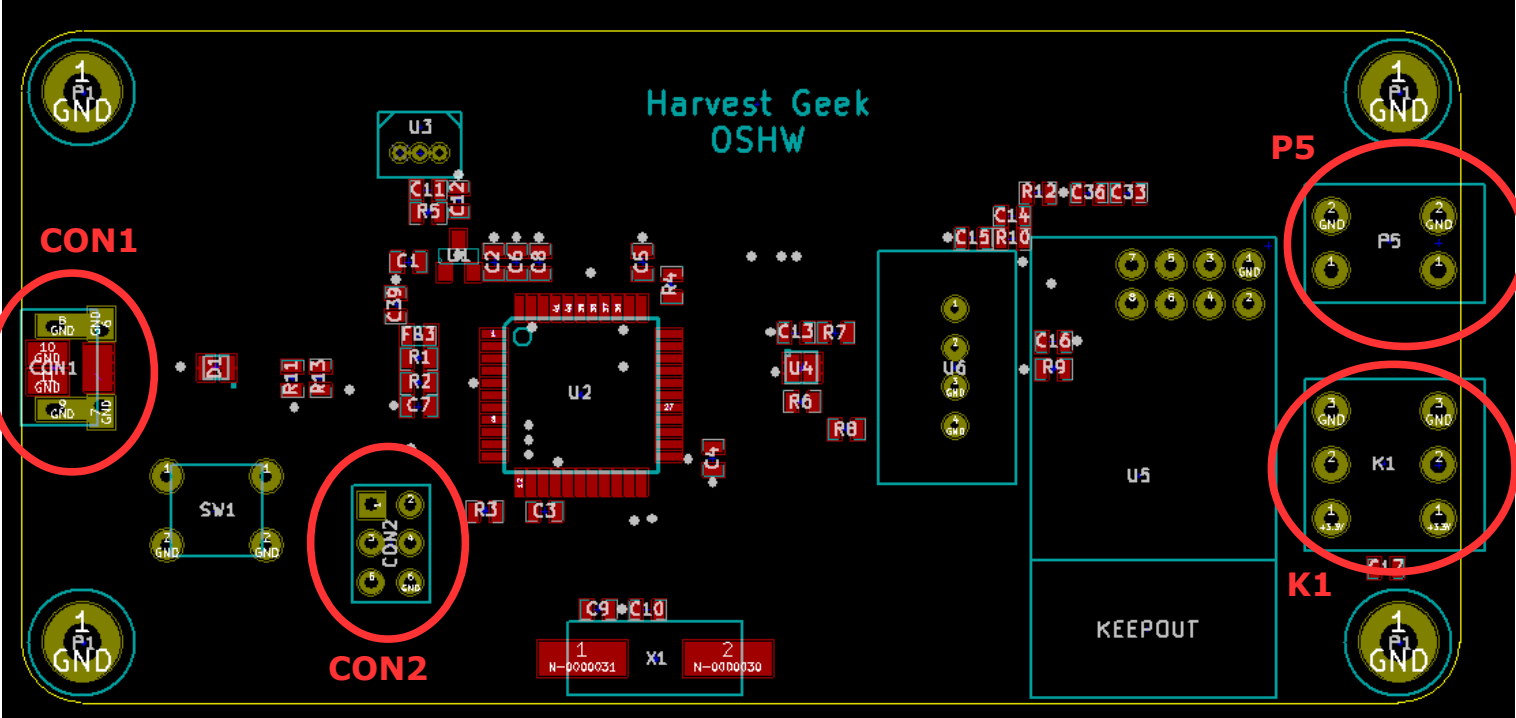
This guide details the correct location, orientation and misc assembly instructions for each component on the Sensor Station PCB.

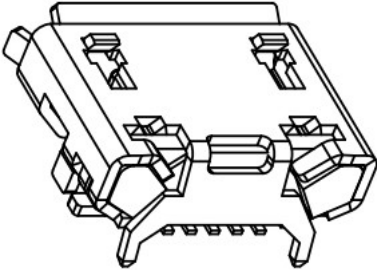

Detailed component information (component specific guidelines, re-flow temperature curves etc) can be found in the BOM and component data sheets (included).

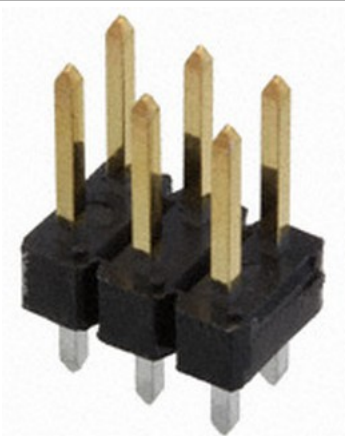


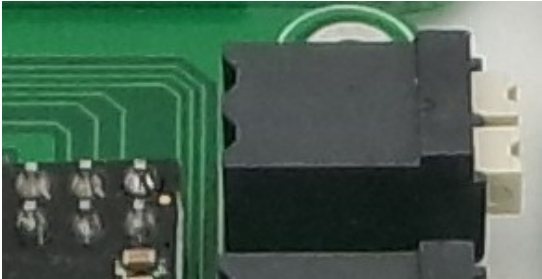

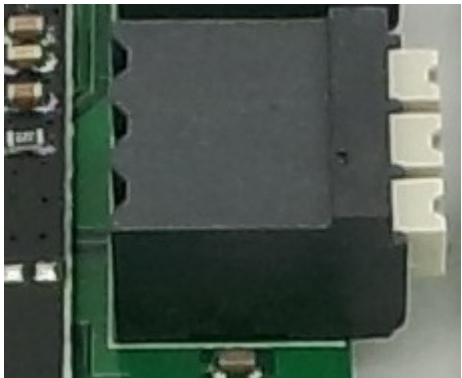
All components on this board on **TOP side**.

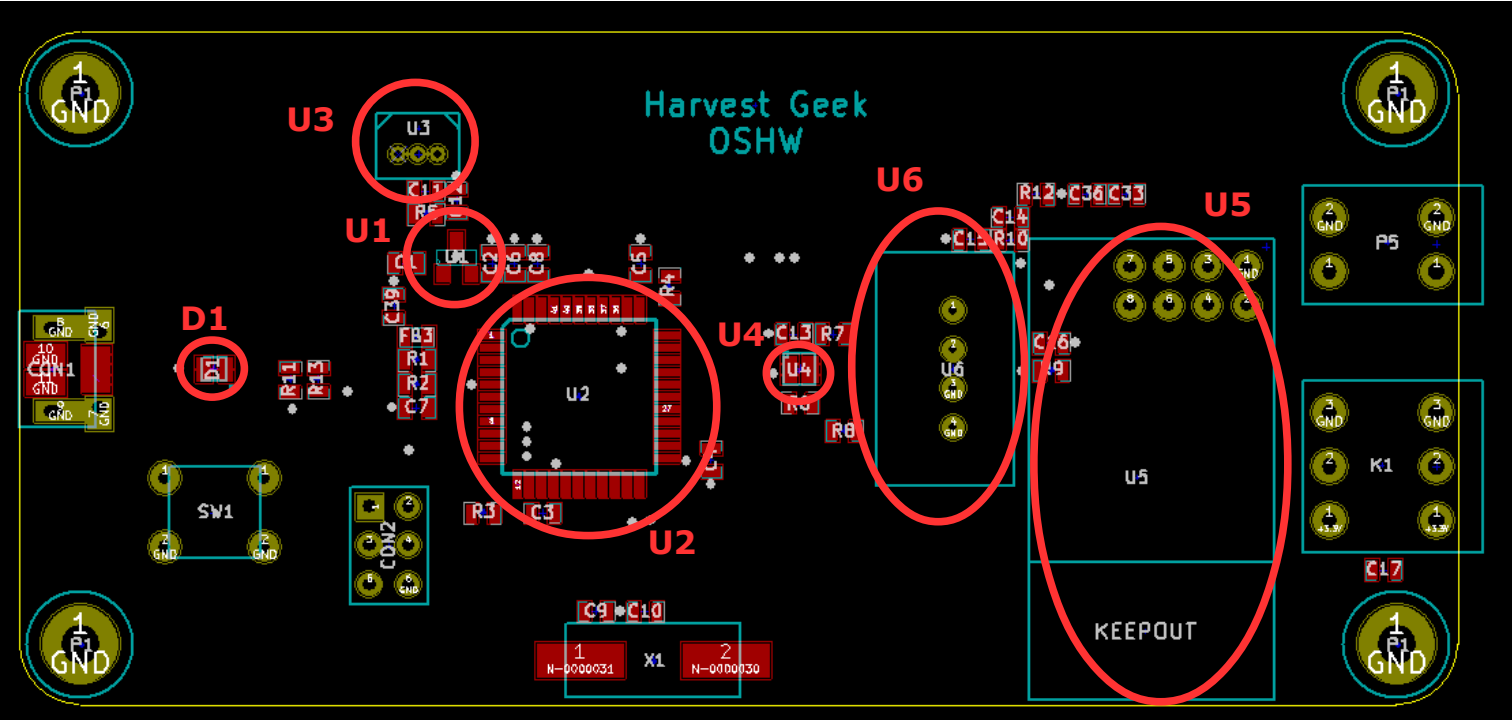
Important: Ensure Light Sensor **U4**, LED **D1** and humidity sensor **U6** are assembled in the correct orientation. See **IC** section and relevant data sheets for details.

Connectors

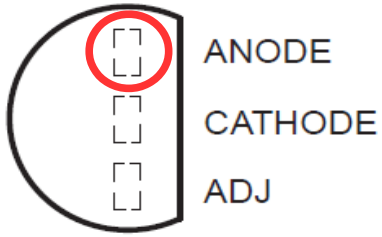

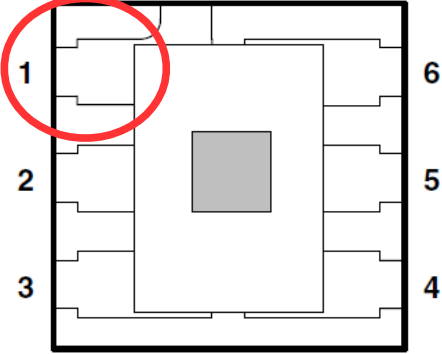

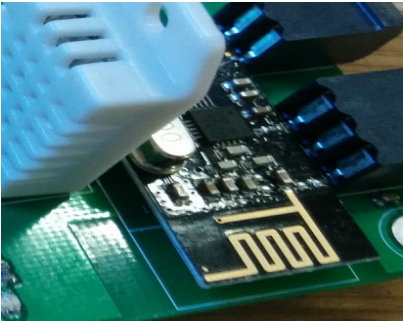
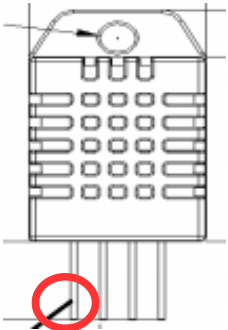

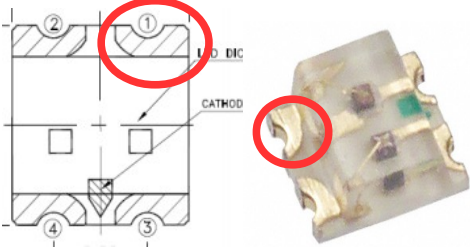
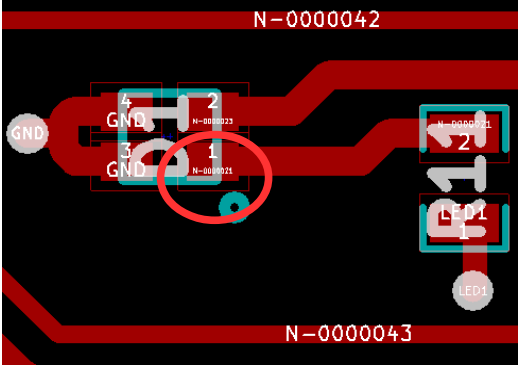


| Part | Part Number | Pinout/Pin 1 Indicator | Pin 1 on PCB (circled RED) |
|------|-----------------|---|---|
| CON1 | 10103594-0001LF |  |  |

| | | | |
|------|--------------|---|---|
| CON2 | 67996-206HLF |  |  |
| P5 | 1824420000 |  |  |
| K1 | 1824430000 |  |  |

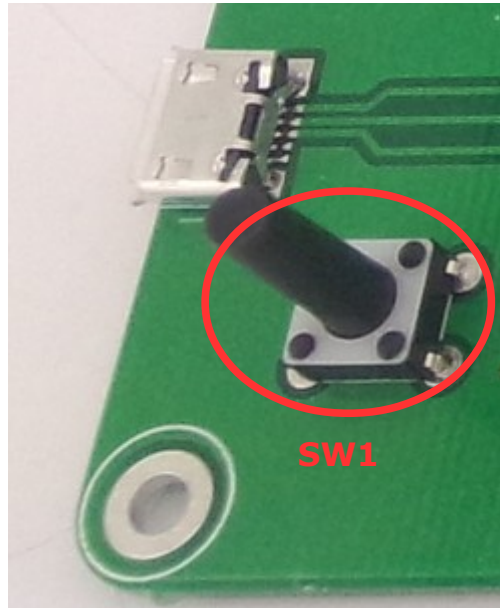


| Part | Part Number | Pinout/Pin 1 Indicator | Pin 1 on PCB (circled RED) |
|------|----------------|------------------------|----------------------------|
| U1 | AP7333-33SAG-7 | | |
| U2 | ATMEGA32U4-AUR | | |

| | | | |
|----|-----------------|--|---|
| U3 | LT1009CLP |  |  |
| U4 | TSL2581FN | <p>TOP View</p>  |  <p>Note: Extra care to ensure correct orientation, pin 1 marker not obvious on package</p> |
| U5 | NRF24L01 | See image for orientation |  |
| U6 | DHT22 |  |  |
| D1 | LTST-C195KGJRKT |  |  |

Push Button Switch SW1

To be mounted on the **TOP** side as pictured.



Passives

Capacitors, resistors, inductors and non-polarised component not detailed as they are not orientation specific. See BOM.