# BlueHat Assembly and Testing

Pre-assembly work

1. Visual inspection of the board
2. Cut legs of DC Barrel Jack and touch up soldering joints

Assembly

1. Install SMT RGB LED 2 on the component side of the board
2. Install Stick connector on top side
3. Install LED Pigtail on the bottom side of the board. Squared hole (Pin1) is GND (White wire)

Testing

1. Install Stick, set to Loconet over TCP with settings for LED chain
2. Connect LED Matrix or LED strip
3. Connect power
4. Verify Stick is booting up
5. Verify external voltage on Stick display. It should be about 5.1 – 5.3V
6. Issue switch commands, verify Matrix LED

Final Assembly

1. Remove Stick, LED matrix, and power connector
2. Place PCB on the bottom shell of the enclosure. Insert Stick end first
3. Verify pig tail wires are flat and PCB fits into the enclosure
4. Place top cover and make sure the small notches go between lower part of the enclosure and the PCB
5. Insert screws and tighten them until the torque significantly increases
6. Your BlueHat assembly is complete