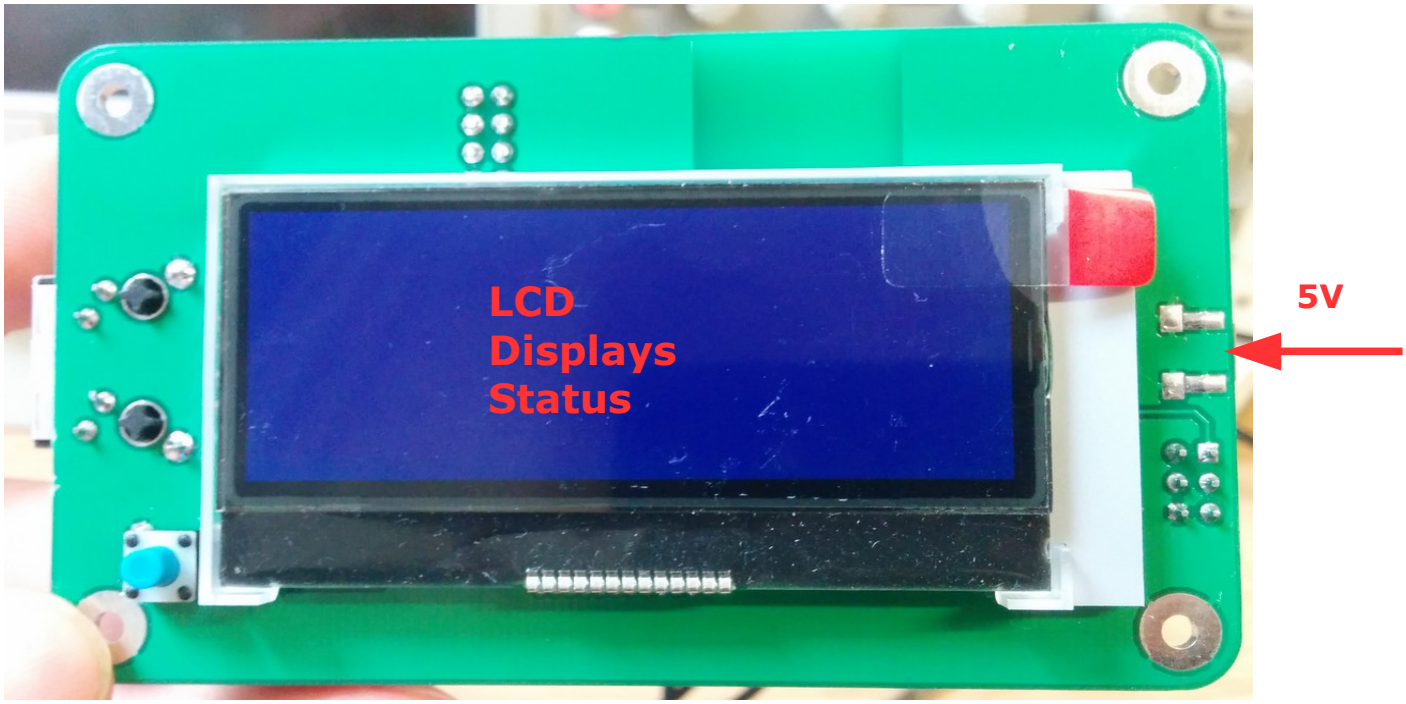
Harvest Geek Base Station Test Procedure

Follow the below power on test procedure after component assembly and firmware burning.

1. Insert 5V power (micro USB cable) as shown below
2. Inspect LCD as shown and asses against **PASS** or **FAIL** criteria in table below.
3. If unit meets a ***FAIL*** criteria fill out a failure mode document.



PASS

LCD Status	***Status***
Backlight on. LCD displays text:	LCD Displays the following sequence 1. 'Initializing...' 2. 'Ethernet problem'

FAIL

LCD Status	***Error***
LCD displays 1. '*Initializing...*' 2. '*NRF24 problem*'	NRF module communication
LCD displays 1. '*Initializing...*' 2. '*W5100 problem*'	W5100 problem (Ethernet chip)
LCD backlight on, no display	LCD connection/data
No LCD backlight or display	LCD backlight
Partial/corrupt display	LCD fault or LCD data fault

Failure mode documents

Light Status	***Error***	***Check***	***Test Operator***	***Date***
LCD displays 1. '*Initializing...*' 2. '*NRF24 problem*'	NRF module communication	☐		
LCD displays 1. '*Initializing...*' 2. '*W5100 problem*'	W5100 problem (Ethernet chip)	☐		
LCD backlight on, no display	LCD connection/data	☐		
No LCD backlight or display	LCD backlight	☐		
Partial/corrupt display	LCD fault or LCD data fault	☐		

Light Status	***Error***	***Check***	***Test Operator***	***Date***
LCD displays 1. '*Initializing...*' 2. '*NRF24 problem*'	NRF module communication	☐		
LCD displays 1. '*Initializing...*' 2. '*W5100 problem*'	W5100 problem (Ethernet chip)	☐		
LCD backlight on, no display	LCD connection/data	☐		
No LCD backlight or display	LCD backlight	☐		
Partial/corrupt display	LCD fault or LCD data fault	☐		

Light Status	***Error***	***Check***	***Test Operator***	***Date***
LCD displays 1. '*Initializing...*' 2. '*NRF24 problem*'	NRF module communication	☐		
LCD displays 1. '*Initializing...*' 2. '*W5100 problem*'	W5100 problem (Ethernet chip)	☐		
LCD backlight on, no display	LCD connection/data	☐		
No LCD backlight or display	LCD backlight	☐		
Partial/corrupt display	LCD fault or LCD data fault	☐		