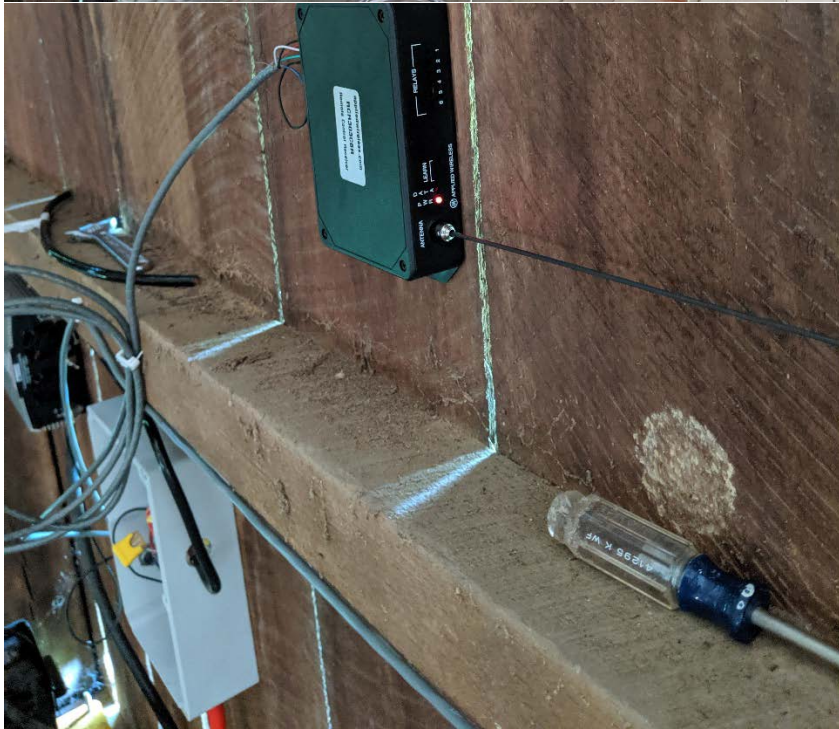


Barn Light Instructions

The barn has been outfitted with a solar panel that charges two group 24 deep cycle marine batteries which power an AC inverter. The Inverter changes the 12VDC battery voltage to 115VAC. This 115VAC is distributed to outlets which LED lamps are connected. There are three “fluorescent” style lamps over the center of the barn, a dark activated spotlight over the main entrance, and strings of color changing party lights on the upper right deck. The control switch is located at eye level on the right deck next to the main entrance door. The batteries, inverter and controls are in the corner of the right deck.





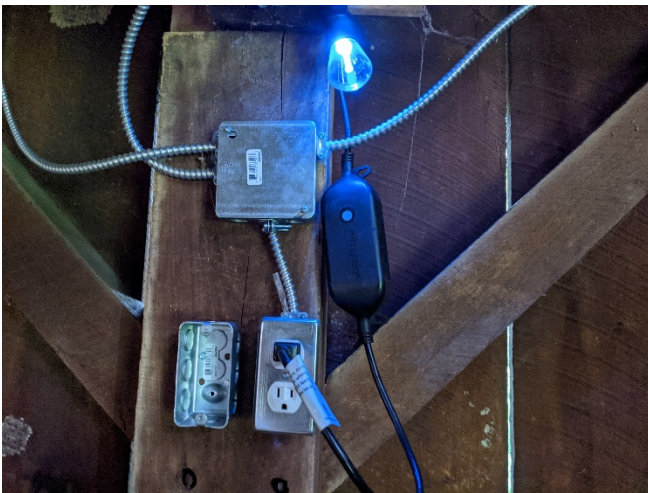
To turn the power on, press and hold the top button for a couple of seconds. Release the button and the power inverter should turn on and the lights come on. This action will latch the power on.



To turn the power off, press and hold the bottom button for at least 10 seconds. You should hear the inverter whine and the pitch drop. **DO NOT RELEASE THE OFF BUTTON UNTIL THE WHINE STOPS!!!!** Even though the lights should turn off immediately, the inverter can turn itself back on until the output charge dissipates.

Change Lighting

The center lights can be turned off for ambience by flipping the switch in the center of deck to the Off (down) position. At the time of this writing, the wiring of this switch has not been completed.

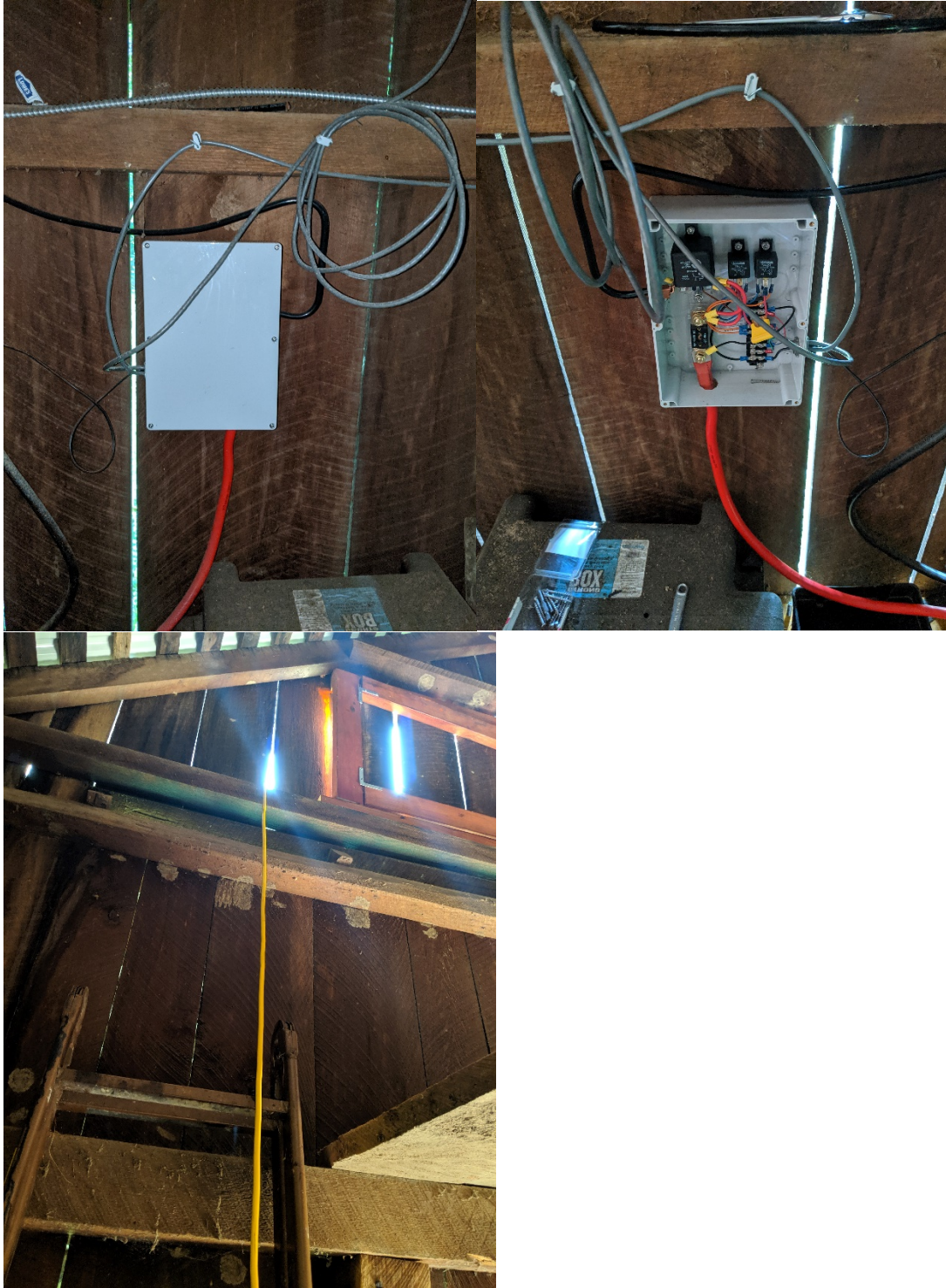


The Party lights can be turned off by disconnecting them from the outlet next to the overhead light switch, or by stepping through the colors of each string to an off position. The color of the Party lights can be changed by pressing the button on the controller to step through a variety of colors and patterns. One of the more useful settings is "White".

Trouble Shooting

The way the circuit works is that the on button temporarily turns on the coil to a large 200Amp automotive relay (used of driving starter solenoids). The relay does two things; first is to provide voltage to the input of the inverter through a 150A fuse, second is to provide voltage back to the coil to latch the coil on. Once the coil is latched, releasing the on button will not turn it off. The off button breaks the input to the coil, but because the





The power inverter is not a true sine inverter, so it may not work well with certain appliances and tools, but it does provide enough power to operate a relatively high load for a short period of time. The inverter can supply up to 12 Amps.