

# SolarSign Solutions.com



Installation Guide

## Tools You'll Need

- Level
- Tape measure
- Battery Operated Drill
- Philips Bit / Drill bits
- Screwdrivers
- Wire strippers

### **Additional Items Needed:**

- Deep Cycle Marine Battery
- Extra wire\*
- Screws
- Seal tight connectors, wire nuts
- Wood

*\*Purchase extra wire if solar panel is installed at a high altitude.*

# Installation

## Planning

1. Find the center point of your sign. Draw a line to represent where the mounting brackets will be installed. See *Fig 1*.
2. Mark where the mounting bracket will be attached to the top of the sign. Pre-drill the hole, to make it easier to mount. Use the appropriate drill bit you will be using for mounting. See *Fig 2*.
3. Drill the holes on the light mounting plate to match up with the holes with the light that you have. Secure the light to the mounting plate with your choice of screws. See *Fig 3*.
4. Use 2 butt connectors to splice the wire so that it can be run through the tubing of the mounting bracket. Take a piece of electrical tape with some pull on it to seal it the wire, so when it is pulled through the tubing, the butt connectors don't come apart. See *Fig 4*.



**Fig 1.**



**Fig 2.**



**Fig 3.**



**Fig 4.**

# Installation

## Solar Panel Mounting (applicable to all solar panel sizes)

1. Lay the solar panel bracket across the back of the solar panel near the pre-drilled holes. Mark the holes on the frame of the solar panel on the post.
2. Drill the marked holes on the bracket, making sure they line up with the holes on the frame of the solar panel.
3. Secure the bracket and solar panel using your choice of nuts and bolts.
4. Affix the solar panel bracket to the post.

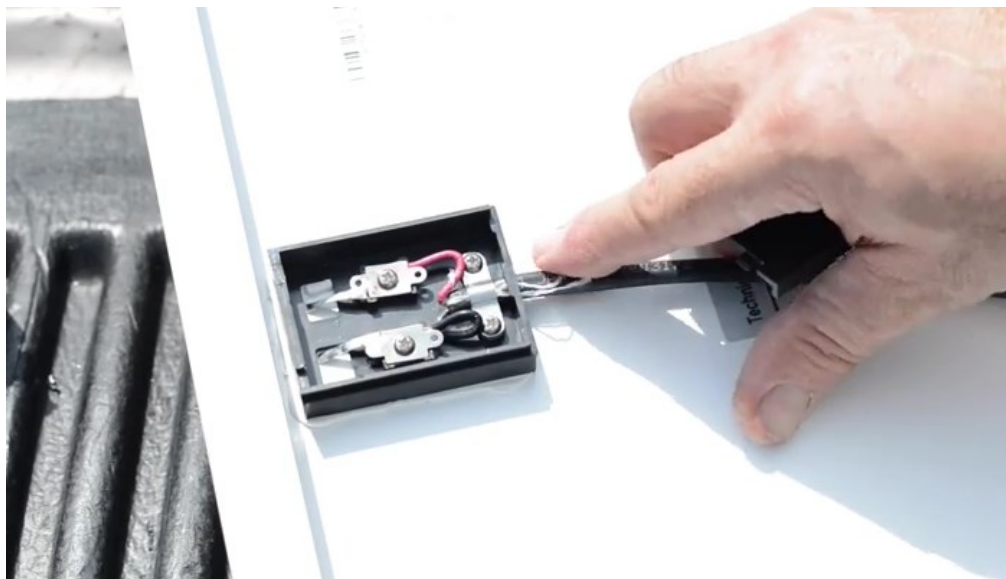
**Note:** Respect polarity when attaching the wire to the solar panel. Crimp the wires then secure them into the terminals. See Fig 1.



*Attach bracket to back of solar panel.*



*Drill holes for attaching bracket to post.*



**Fig 1.**

# Installation

## Control Box Installation

1. Mount the din rail inside the control box using the provided self-drilling screws. *See Fig 1.*
2. Drill four holes in the control box so that it can be mounted onto the post.
3. Secure the control box onto the post with your choice of bolts. Use the level to make sure it's placed correctly onto the post. *See Fig 2.*
4. Install watertight connectors for the wires to keep bugs from getting into the box. *See Fig 3.*



**Fig 1.**



**Fig 2.**



**Fig 3.**

# Installation

## Light Bracket Mounting

1. Feed the screws into the drilled holes of the light bracket to avoid damage to the wires.
2. Affix the bracket onto the back of the billboard. Use the level to make sure the placement of bracket is not crooked.

