ECONOMY SOLAR POWERED
FLASHING LED TRAFFIC SIGNS
ASSEMBLY GUIDE

These solar signs have two types of mounts. To identify which model you have, compare to these options:

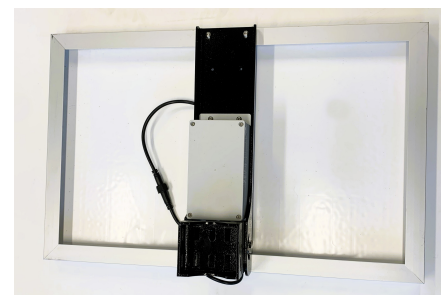**Option 1 (Separate Pole & Bracket):**

Parts List:

Option 1:
12 - 11/16 in. Bolts
12 - 11/16 in. Nuts
12 - Brackets
1 - 9/16 Bolt
1 - 9/16 Nut
10 - Screws
10 - 5/16 Nuts
1 - Pole Mount
2 - Solar Panel Braces
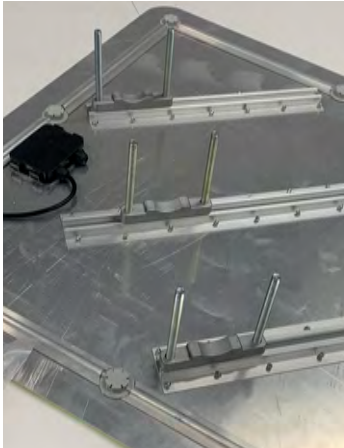1 - Pole for Solar Panel

Option 2 (Built-in Bracket):

Option 2:
6 - 11/16 in. Bolts
6 - 11/16 in. Nuts
6 - 11/16 in. Locking Nuts
12 - Washers
6 - Brackets
2 - Band Clamps

Installing the Solar Panel Pole (For Option 1 Only)

1. To mount the 3 ft. pole to the sign, begin by laying the sign face down on a smooth work surface, such as cardboard, to avoid leaving scratches.

2. Roughly measure out where you will install the 3 ft. pole for the solar panel, ensuring to leave enough room to mount your sign to your sign post.

3. Thread two 11/16 in. Bolts into one of the channels, lining them up to where you want the brackets to be installed.

4. Slip a Bracket over the bolts with curved side facing up to fit the round pole.

5. Install and line up all three brackets you will need for the solar panel pole.
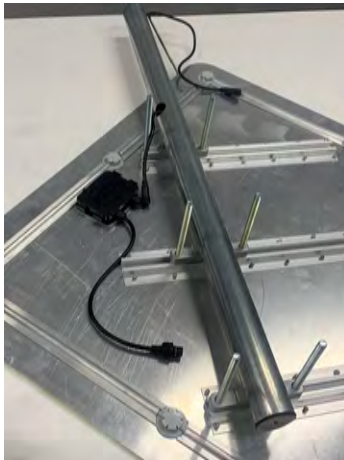
6. Place the solar panel pole in the cradle of the posts, pushing it up to the desired height. The cords should come out of the top of the pole and be accessible through the side hole.
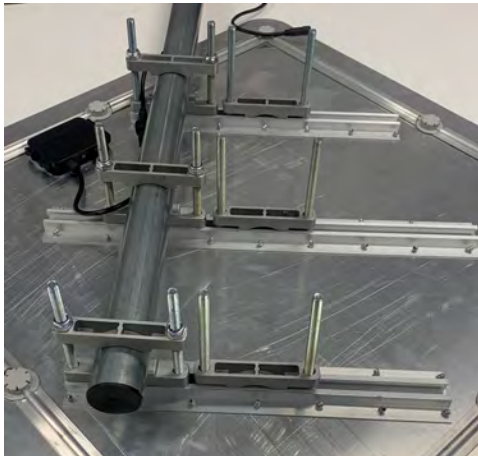
7. Slip three brackets on top with curved side facing down to fit the curvature of the pole.

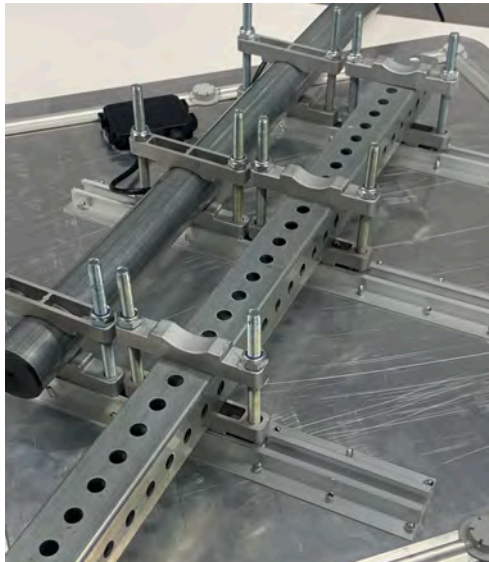8. Begin to hand-tighten 11/16 in. Nuts on to each bolt.

9. Use vice grips or a similar tool to hold each bolt in place from spinning while tightening down.

10.   Tighten both sides down evenly, finishing the final tightening when each bolt is secured.

Please note image above shows Option 1 with solar panel pole. All other steps are the same for Option 2.

Installing Your Sign Post (For Option 1 & 2)

1. To mount your sign post, you can use the same method as mounting the solar panel pole. If you are mounting to a pre-existing pole, the steps are roughly the same, but will look different than the example images.

2. Thread two 11/16 in. Bolts into each channel, lining them up to the center of the sign. Slip a Bracket over each set of bolts with curved side up for a round post or flat side up for a square post. (shown with square post)
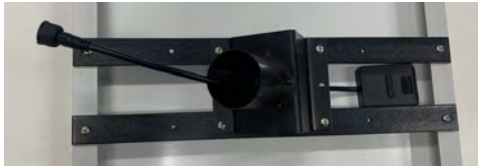

Round post

Square Post

3. Place your sign post in the center of the brackets, adjusting to your desired height.

4. Slip three brackets on top with curved side down for a round post or flat side down for a square post.

5. Begin to hand-tighten 11/16 in. Nuts on to each bolt. Use vice grips or a similar tool to hold each bolt in place from spinning while tightening down.

6. Tighten both sides down evenly, finishing the final tightening when each bolt is secured.

Please note image above shows Option 1 with solar panel pole. All other steps are the same for Option 2.

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Installing The Solar Panel (For Option 1)

1. To mount the solar panel, begin by laying the sign face down on a smooth work surface, such as cardboard, to avoid leaving scratches.

2. Place the two black solar panel braces on the back of the solar panel and line them up with the holes.

3. Before securing to the solar panel, line up the pole mount with the center four holes and secure using 4 screws and 4 x 5/16 in. nuts.

4. Thread the cord through the center of the pole mount.

5. Secure the braces in place onto the solar panel using 4 screws and 4 x 5/16 in. nuts.

6. When you are ready to mount the solar panel on the pole attached to the sign, first, connect the solar panel cord to the cord sticking out of the top of the pole, making sure to screw it down tightly to activate the waterproof seal.

7. Once connected, feed the cord into the pole and place pole mount on top of pole, lining up the holes.

8. Secure the solar panel pole mount to the pole with the single 9/16 in. Bolt and Nut.

9. At this stage, refer to the next page "Control Box Switches" to set up your recommended sign settings based on your region.

10. Plug the cord coming out of the side of the pole into the one coming out of the control box. Your sign should be active now, and may be flashing, depending on the settings you selected (Day/Night).
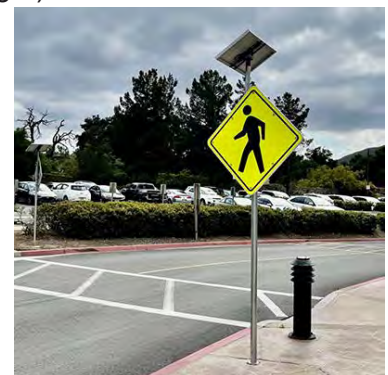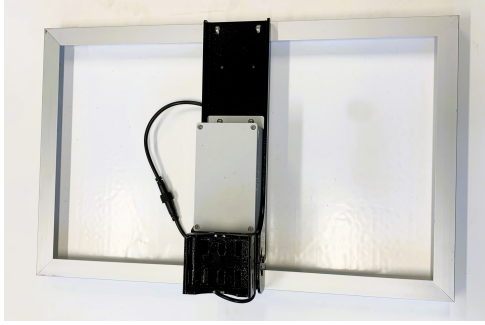
Installing The Solar Panel (For Option 2)

First, determine if you wish to use band clamps to strap sign to a pole or bolts to mount to square sign post or indoor racks.

For Band Clamps:
1. Open band clamps by loosening the set screw.

2. Feed metal loops through the slots on the black pivoting hinge.

3. Attach the band clamps to your pole. Make sure the solar panel is pointing up.

4. Tighten screws until secure.
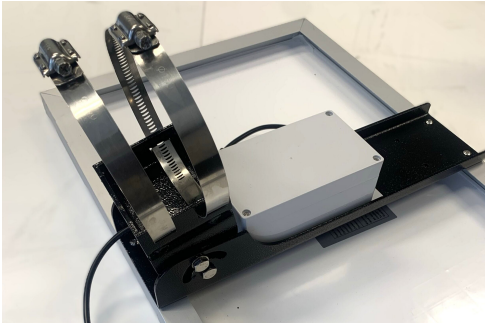
For Bolt Mounted:
1. Feed bolts through holes in the black pivoting hinge.

2. Align with sign post, making sure the solar panel is pointed up, and tighten onto post.
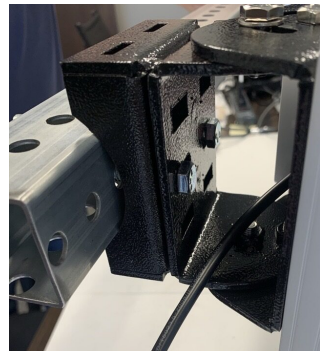
Securing the Pivoting Hinge:

The solar panel pivoting hinge is meant to allow you the flexibility to position it in the optimal amount of sunlight throughout the day.

Use the bolts on the side to pivot into the best position and, while holding, tighten until secure.

Control Box Switches

To access the Control Box, gently pry up on the top cover by pressing down on the tabs on one side.

Control Switch Functions

Switch 1 - Flashing Mode Switch

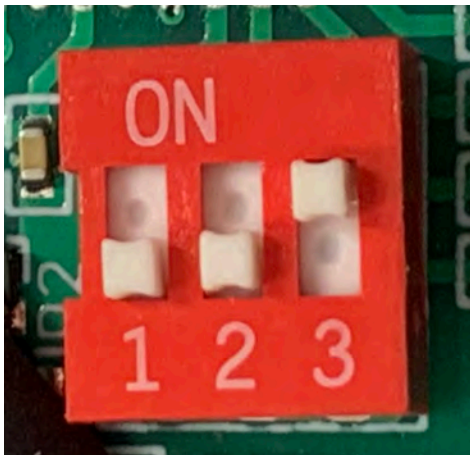   UP/ON - Steady Light

      DOWN - Flash

Switch 2 - Photocell Mode

      UP/ON - Auto Turn On Night Only

      DOWN - Light Always On

Switch 3 - Auto Dimming Switch

      UP/ON - Auto Dims at Night

      DOWN - Does Not Auto Dim

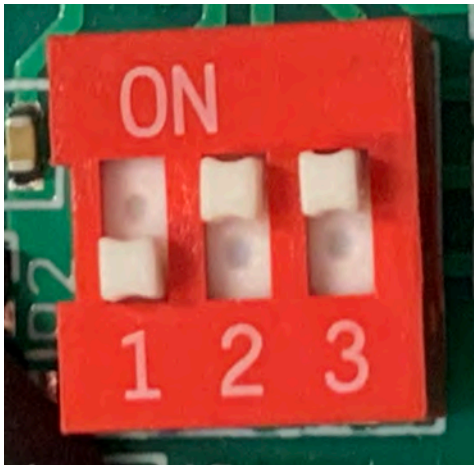## Recommended Settings

Locations North of the 49th Parallel

Summer:	Winter:
1 - DOWN	1 - DOWN
2 - DOWN	2 - DOWN
3 - UP	3 - UP

Locations South of the 49th Parallel

All Seasons:

1 - DOWN

2 - DOWN

3 - UP

We recommend switch 3 be in dimming mode (UP/ON) to lower light at night for drivers.

- Be sure to place solar panels at an angle, facing due South and in an area not shaded by trees, buildings, etc.

- Panel needs full daylight in winter and dark periods. Remove snow and debris from panels when possible.

- If light stops working due to long hours in darkness, it may take 10 days or more of sunlight to fully recharge battery pack to normal operation. During recharging light may work intermittently.