

Installation Instructions

8" BriteBeacon™ Econo-Line Solar Traffic Warning Beacon



If at any time you need assistance with your BriteBeacon™ Econo-Line product that is not covered in this guide, please feel free to reach out to us by phone or email during normal business hours. We are glad to answer any questions you have.

(866) 406-7869

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8" BriteBeacon™ Econo-Line Specifications

Colors Available	Red and Yellow
Voltage	12V DC
Solar Panel	10W
Battery	6.6Ah 12V Lithium Battery
Light Output Intensity	≤305cd
Viewing Angle	30°
Housing Material	UV-Resistant Polycarbonate with Polycarbonate Visor
Flash Rate	55 FPM (MUTCD)
Cloudy/Rainy Days Operating Time	Approximately 7 full days
Dimensions	(see next page)
Mounting Style	Universal Bracket fits standard traffic sign posts
Unit Weight	11.4 lbs

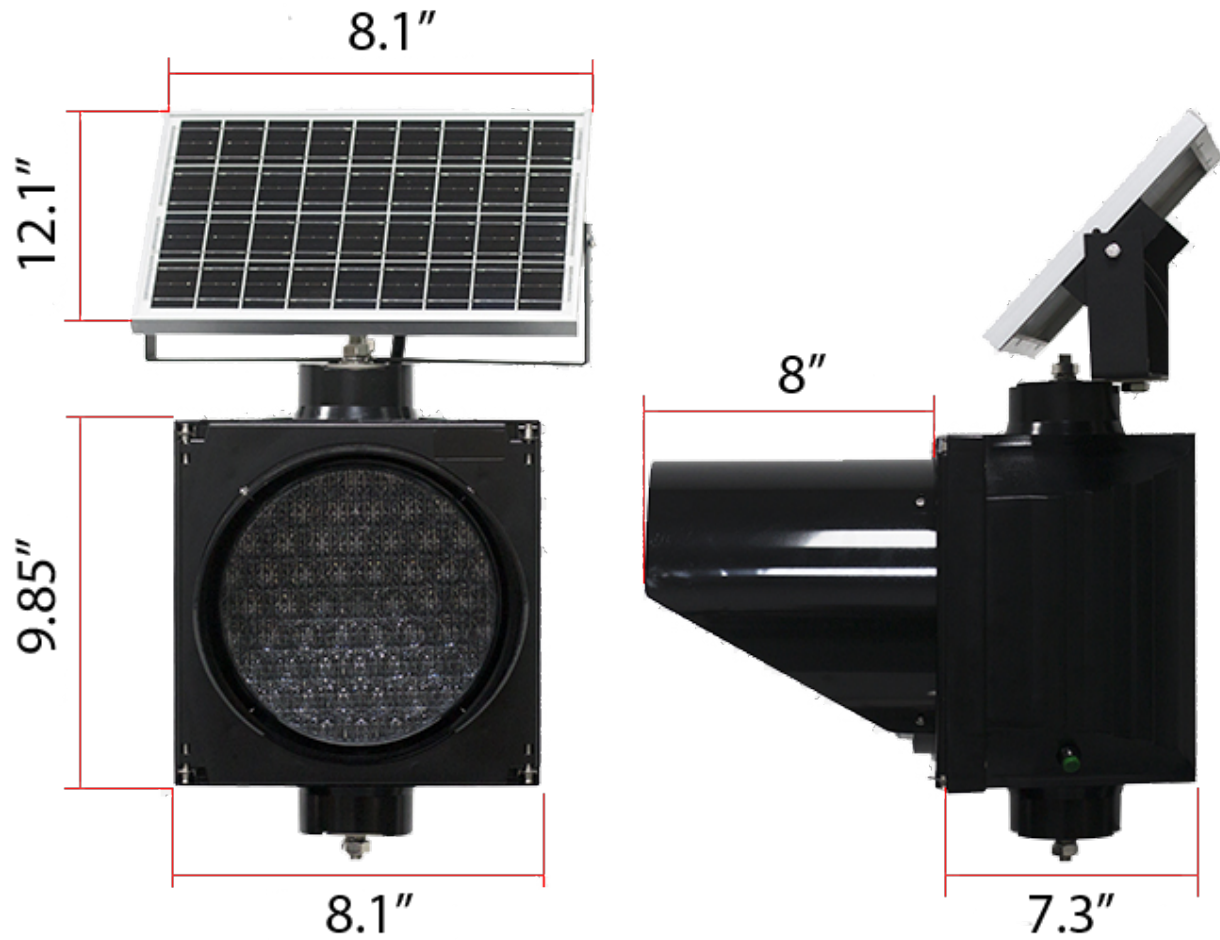


Important Note: These units may not be able to fully charge in areas covered by large trees. Snow build-up on the solar panel may hinder charging performance - it is necessary to remove snow from the solar panel for proper operation in winter environments.

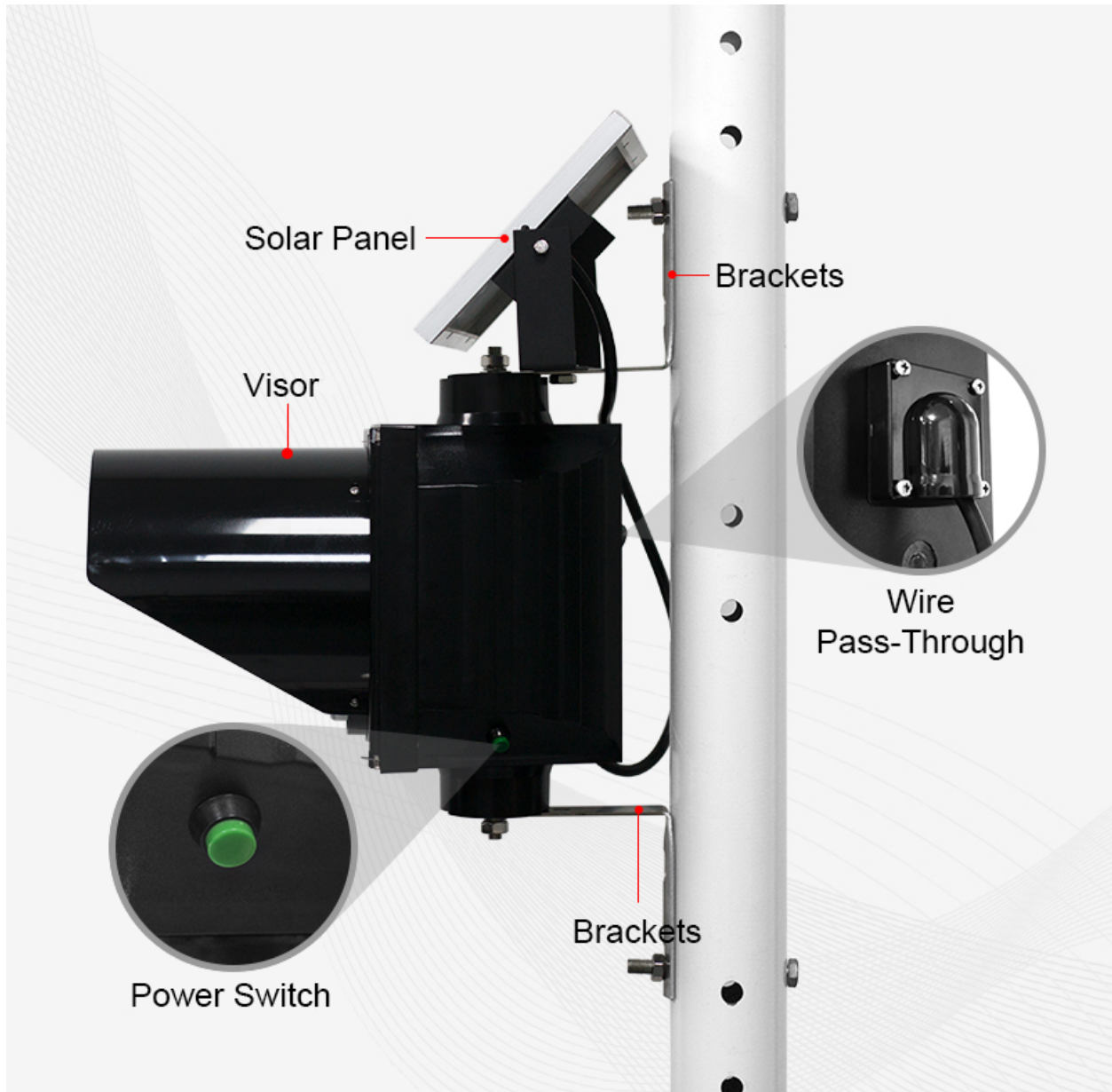
Signs, sign posts and installation hardware are not included and sold separately.

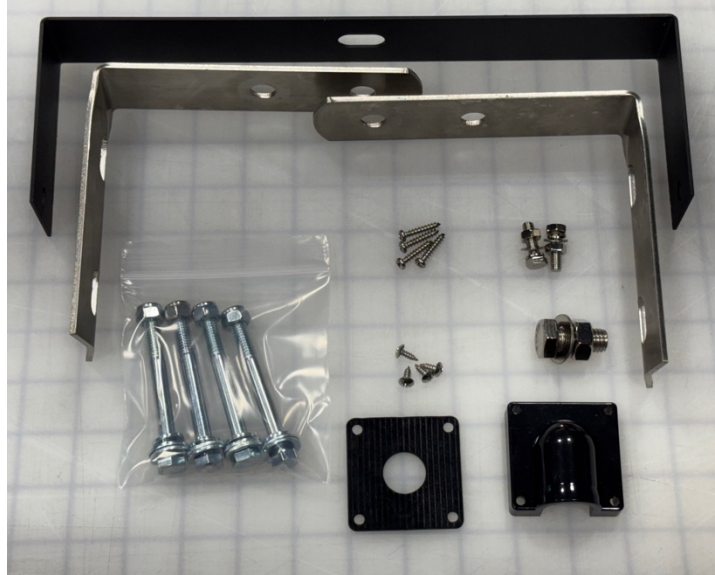
1 Year Limited Warranty against manufacturer defects.

Signal Head Dimensions



Assembly Diagram





Included Parts:

- 8" BriteBeacon Econo-Line Signal Head
- Polycarbonate Visor with four (4) ¼" long Philips mounting screws
- Two (2) Post Mounting Brackets
- Solar Panel bracket with 1 large bolt (for mounting to post mounting bracket), 2 small bolts, 2 washers, 2 split lock washers and 2 nuts
- Wire Pass-Through Cap with Gasket and four (4) 1" long Philips screws
- Pack of four (4) 3" long, 5/16" thread mounting bolts with 8 washers, 4 split lock washers and 4 lock nuts for the following sign posts:
 - Square Telespar Sign Posts (up to 2-1/4")
 - U-Channel Sign Posts (2lb and larger)
 - Round Pipe Sign Posts (up to 2-3/8" - drilling four 3/8" holes through the post may be required)

Tools Required:

- 3/4" socket and ratchet and 3/4" wrench for signal head mounting brackets
- 1/2" socket and ratchet plus 1/2" wrench for sign post mounting bolts
- Two 3/8" wrenches for solar panel brackets
- #2 Philips Head Screwdriver or Drill (if using drill, set to a lower torque setting to prevent stripping plastic)

Considerations and Warnings:

- Before mounting the beacon, observe the mounting location. Ensure that the beacon will not be installed under or near trees that will shade the unit at any time. The solar panel needs a clear, sunny area to charge, or the signal beacon may not operate properly.
- During wintry conditions, snow may build up on the solar panel. Be sure to regularly clean snow off of the solar panel, or the signal beacon will not be able to charge properly.
- This unit uses batteries. Observe proper handling precautions and do not short the battery wiring, which may create an unsafe situation and cause a fire.

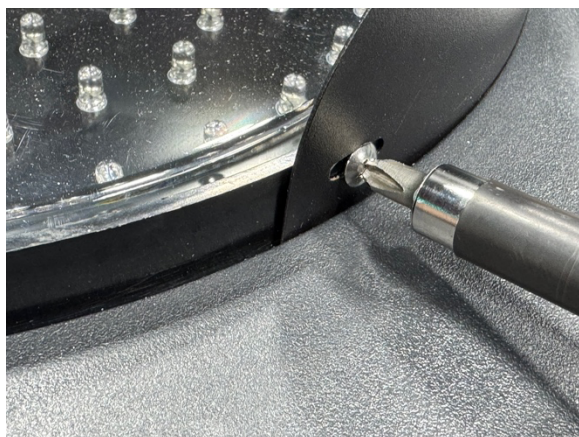
Assembly Instructions

Wire Pass-Through Assembly



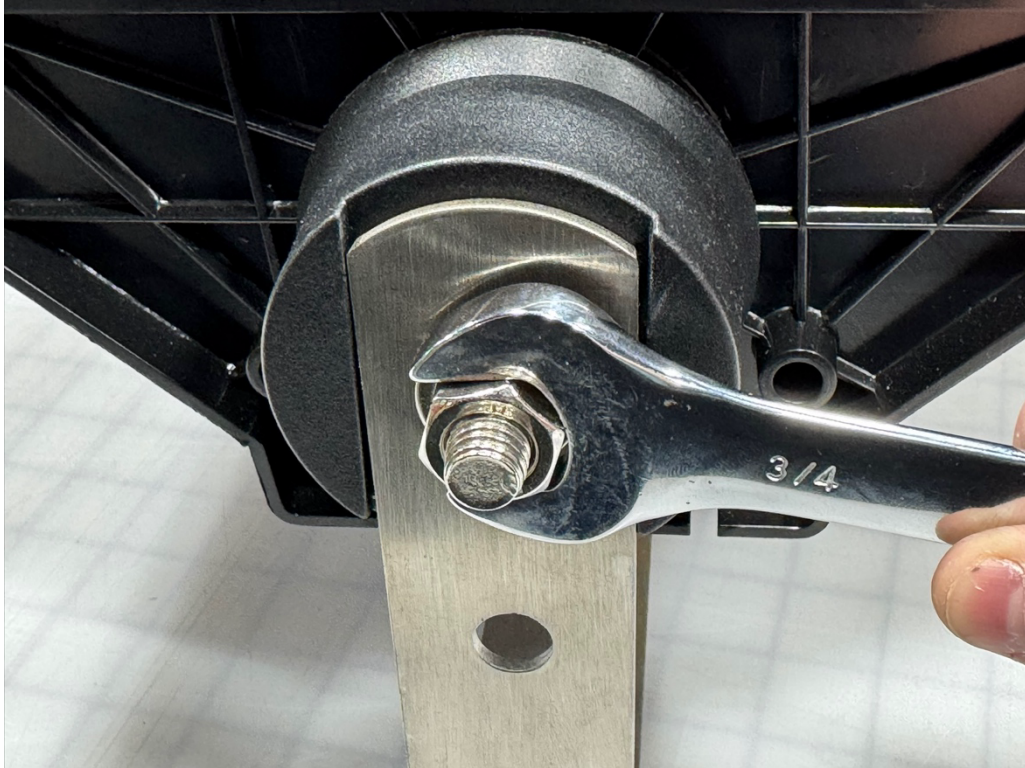
Using the 4x 1" long Philips head screws and gasket, mount the wire pass-through as shown. Start all 4 screws into the holes and tighten them all when the pass-through cover and gasket is straight. **DO NOT OVER-TIGHTEN THE SCREWS.** If the gasket is not already cut, you will need to cut through one side of the gasket to fit it around the solar panel cable. The opening of the wire pass-through **must face down** to keep water out of the signal head.

Visor Assembly



Using the 4x 1/4" Philips screws, take the visor and inset it into the slot on the outside lip as shown above. Line up the screw holes and screw in all 4 screws with a screwdriver, starting with the top two screws. **DO NOT OVER-TIGHTEN THE SCREWS.**

Mounting Brackets Assembly

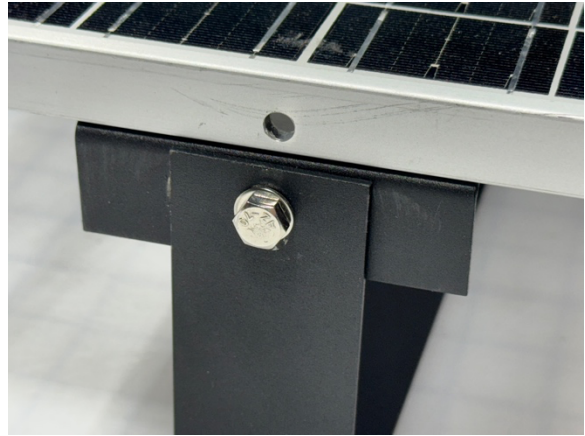
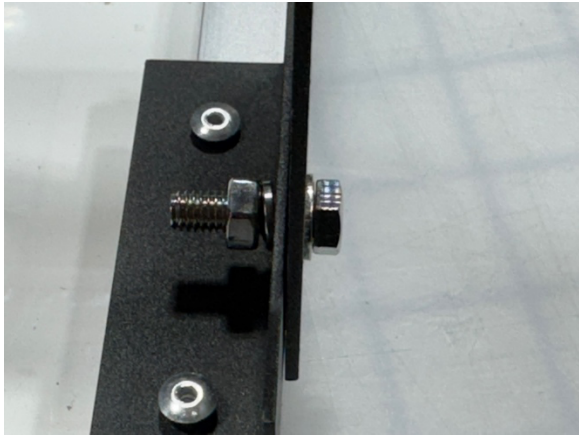


Using the supplied large nuts, lock washer and washer, install the top and bottom signal head mounting brackets on the rotating end mounts using a 3/4" wrench or socket and ratchet as shown and leave them loose. These brackets can be installed both facing inside or outside at your convenience.

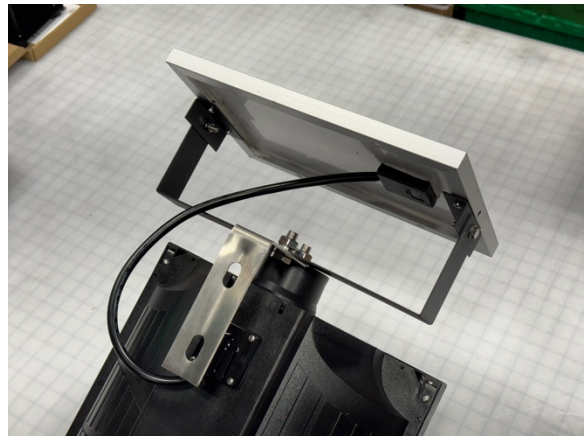
If you are mounting this on a wood post, mount the brackets facing out, so that the mounting holes are accessible by a drill.

Do not completely tighten these nuts – they will be tightened later when the signal head is mounted to the post, as the signal head may need to be aimed a different direction.

Solar Panel Assembly



Using the supplied smaller bolts, lock washers, washers and nuts, assemble the solar panel bracket to the side mounts on the solar panel using two 3/8" wrenches. Insert the bolts so that the nuts are inside of the bracket, not outside. **Do not completely tighten these bolts**, as the panel will need to be adjusted once mounted.



Next – using two 3/4" wrenches and the supplied large bolt, washer, lock washer and nut, assemble the solar panel with bracket to the top of the signal head bracket in the next open hole.

IMPORTANT: Once the signal head is mounted to a post, tighten all the solar panel bolts. It is recommended to face the solar panel due south at a 45-degree angle for best possible solar charging performance.

Mounting the Assembled Signal Head



Using the included 4x 5/16" mounting bolts kit and a 1/2" socket with ratchet and a 1/2" wrench, mount the assembled unit to your U-Channel, Telespar or round post with the top-most hole first.

The easiest way to get the bolts in is inserting the bolt through the back of the sign post first, then aligning the top-most hole with the bolt. Ensure that there is a washer between the bolt head and back of the sign post, and a washer with split lock washer on the other side. **Do not tighten the bolts completely until all 4 bolts are started so that you can move the entire assembly up and down slightly.** Repeat this step for each open hole in the signal head brackets for the best security.

Once all 4 bolts are in, tighten all 4 bolts until they are very snug with the post. Ensure that the signal head does not move on the post and that all bolts are properly secured.

If you are mounting this signal to a wood post, flip the signal mounting brackets around and use 4x 1/2" thread, minimum 2" long lag bolts with steel washers (not supplied).

Final Assembly



Now that the unit is installed on the post, turn on the signal using the toggle switches labeled “Battery Disconnect Switch” and the “LED Switch” (if equipped) on the right side of the signal.

Walk away from the signal and observe the direction that it is facing. The light output should be bright and focused at the lane of travel from at least 200ft away. If it needs to be adjusted, loosen the top and bottom large nuts and turn the signal unit either left or right. The signal is notched every 5 degrees that will lock the signal head in place when tightened.

When you are satisfied with the direction that the signal is facing, tighten the top and bottom bolts on the signal head brackets.

Be sure to also aim the solar panel at a 30-to-45-degree angle and face the panel south for the best solar charging results. Tighten all solar panel hardware completely and ensure the solar panel does not easily move by hand.

Finally, inspect the installation. Ensure that no bolts or screws are loose and that the solar panel cable is not pinched or damaged. Remove any protective plastic or wrapping from the LED face.

Annual Maintenance

It is strongly recommended to regularly clean the LED face and solar panel with mild soap and water, and rinse clean with water. It is also safe to use glass cleaner to remove stubborn material on the glass solar panel.

Do not use solvents or harsh chemicals to clean the signal unit. This will damage and/or break down the plastic components and significantly degrade the unit's UV resistance.

Check the operation of the signal beacon both during the day and at night time. The LED should always be bright. Ensure that there are no dead LED pixels.

Check that all bolts and screws are tight and have not loosened.

Warranty

The BriteBeacon™ Econo-Line Solar Beacons come with a 1-year limited warranty that covers manufacturing defects.

If you need to submit a warranty claim, please contact our Technical Support department first, as we may be able to resolve the issue you are having. Please have the serial number (located inside the signal head), original order number (if known), photos and/or a description of the issue and troubleshooting steps taken. We will then verify warranty status and issue an RMA for product repair or replacement if needed.

Additional Notes

In December 2025, the Battery Disconnect Switch has been changed from a green push button to a heavy-duty toggle switch to ensure long-term reliability.



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