

Important Information

FLASHING SIGN SYSTEMS

Your guide to install and setup
an Intelligent Beacon Kit

Applies to:
All TrafficCalm™ Beacon
Assemblies



*5676 E. Seltice Way
Post Falls, Idaho 83854
1.855.738.2722 | www.trafficalm.com*

<Intro>

What's included in a Single Kit?

- Qty 1 LED Beacon Ball*
- Qty 1 Beacon Housing (signal head)**
- Qty 2 support elbows
- Qty 1 wiring harness
- Qty 1 support elbow foot w/ self tapping screw(s)
-

What's included in a Dual Horizontal Kit?

- Qty 2 LED Beacon Ball*
- Qty 2 Beacon Housing (signal head)**
- Qty 4 support elbows
- Qty 1 wiring harness
- Qty 2 support elbow foot w/ self tapping screw(s)

What's included in a Dual Vertical Kit?

- Qty 2 LED Beacon Ball*
- Qty 2 Beacon Housing (signal head)**
- Qty 4 support elbows
- Qty 1 wiring harness
- Qty 3 support elbow foot w/ self tapping screw(s)
-

What's not included?

- Visor/Hood
- Pole
- Solar Panel
- Slimline Controller/Collaborator
- Banding (not needed unless preferred)

*Selected, at time of purchase, in Red or Amber LEDs

** Selected, at time of purchase, in polycarbonate or aluminum., and painted/molded in Yellow, Green, or Black coloring

<Parts Identified>

Support Elbow



Beacon Housing



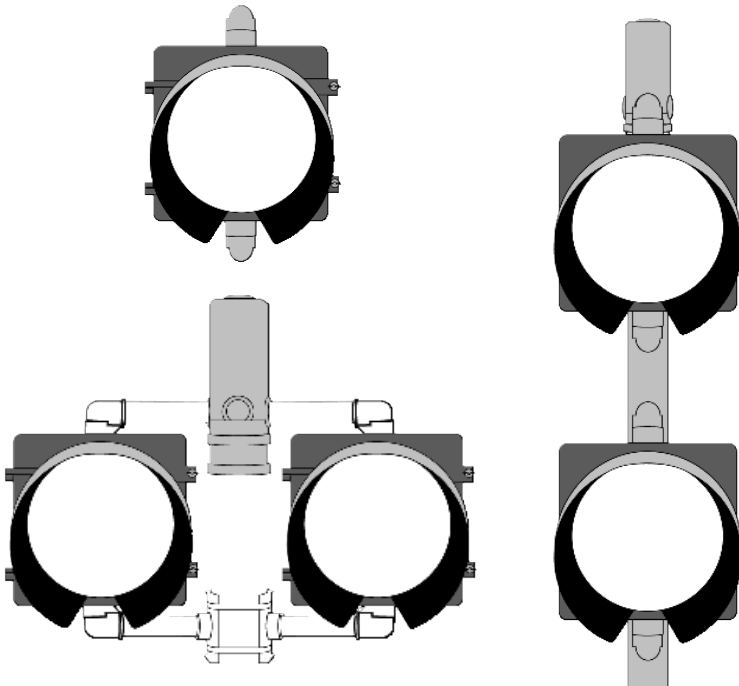
LED Beacon Ball



<Intro>

Fast Facts - *If you read one thing, let this be it.*

- The beacon kit this manual is included with is part of the TrafficCalm Intelligent Beacon Solution. You will have several other assemblies that compliment this kit- including a Slimline Controller or Collaborator, a Solar Panel kit (if not an AC system), and a pole kit. It is not a standalone unit, and will not function without supporting hardware purchased separately.
- Our kits are sold as a single, dual horizontal, or dual vertical layouts. They are unique kits and will require additional components if changing the layout is desired.
- Depending on what sign is being highlighted, the dual vertical kit requires substantial pole height to be installed- a 16' pole kit is recommended.



note that visors, poles, and hubs shown are purchased separately

Start Here...

Unpack all boxes and ensure that all components are accounted for. Often users will discard components mistaken as packaging material. We call them loser users. Don't be a loser, User.

Preparing the Pole For the Beacon Assembly

Planning the system out on the pole can help alleviate fitment issues further along. The main consideration here is placement and spacing- this kit requires an 1/2" to 3/4" hole to be drilled in the pole for the wiring to pass through to the bottom beacon housing. It may be worth planning the placement of this hole at this time.

Preparing the Beacon Ball and Housing

1. Open the housing access door and remove the four Beacon fasteners from the door
2. Carefully affix the beacon into the door of the housing. Two things are important here- The beacon is facing out *and the side of the beacon marked "TOP" is correctly at the top of the assembly**.
3. Install the included terminal strip within the beacon housing.
4. The molded wire harness off the back of the beacon can now be mated to the terminal block in the housing. Select any two terminals and plug them in, anywhere will work except across from each other.
5. Now, apply the included wiring harness extension to the same terminal strip.
6. The above steps should be duplicated for any additional beacons
7. The wiring extension will pass through the top of the housing and into the pole later on, for now you can coil it up inside and move on.

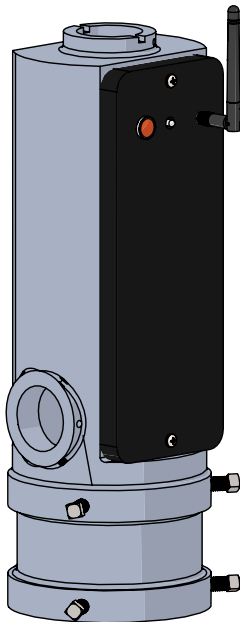
<Prep Work>

Mount the Slimline Controller/Collaborator “Hub”

The Slimline controller is covered in a separate manual, but in short, mounting its housing (aka Hub) is the first step in installing a Beacon kit. Here is a brief summary

1. Loosen all four set screws around the Hub’s collar
2. Set it on top of the pole
3. Position the Hub so that the access panel is facing away from the desired direction of the beacons aim. Check mounting for level.
4. Fasten all four set screws to the pole, firmly securing the hub to the pole while maintaining level.
5. All the cable routing and other assembly processes can happen later.

With the hub mated to the pole, it is now possible to mount the beacon(s).



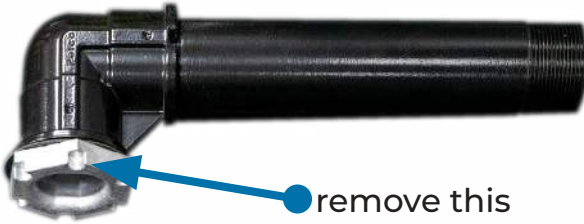
Shown: Illustrated SlimLine Controller/Collaborator door cover mated to pole top Hub (in silver)

<Single Beacon Attachment>

Assembling A Single Beacon

The Beacon and housing are mounted the post with two support elbows affixed to the top and bottom of the housing per the following instructions:

1. Remove the large nut and gasket from the short end of the support elbows.



2. Thread a support elbow into the front of the Slimline hub, facing toward where the beacon will be facing. Do not tighten the lock bolt just yet.
3. On the other support elbow affix the supplied mounting foot. Using a large nut and gasket removed in step 1, affix the support elbow to the beacon housing.
4. Using the the other large nut and gasket from step 1 affix the beacon housing to the support elbow applied to the hub in step 2. Leave this loose to allow fluid aiming of the beacon.
5. Step 2 through 4 will result in what's seen below.
6. With the beacon now on the post, it is possible to aim and tighten all the brackets assembled in the above steps. See page 10 for aiming notes.
7. Finally, route the cable extension from inside the beacon housing into the Slimline hub.
8. Refer to Slimline manual for further details about connections and configuration.



<Dual Horizontal Attachment>

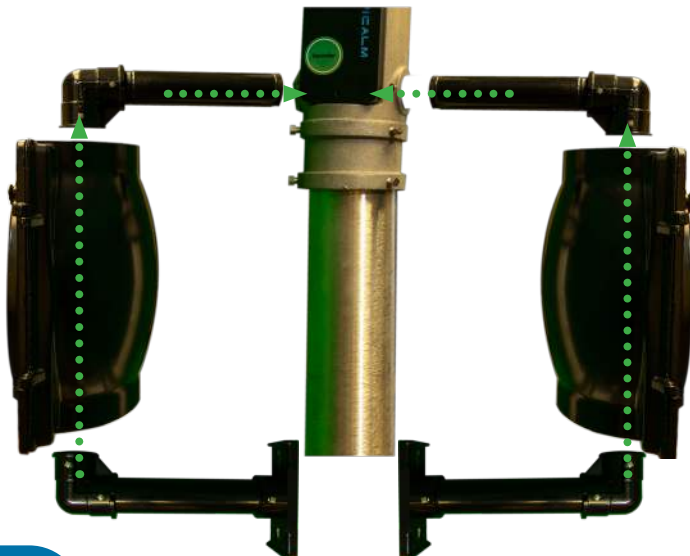
Assembling Dual Horizontal Beacons

The Beacons and housings are mounted the post with four support elbows affixed to the top and bottom of the housing per the following instructions:

1. Remove the large nuts and gaskets from the short ends of the four support elbows.



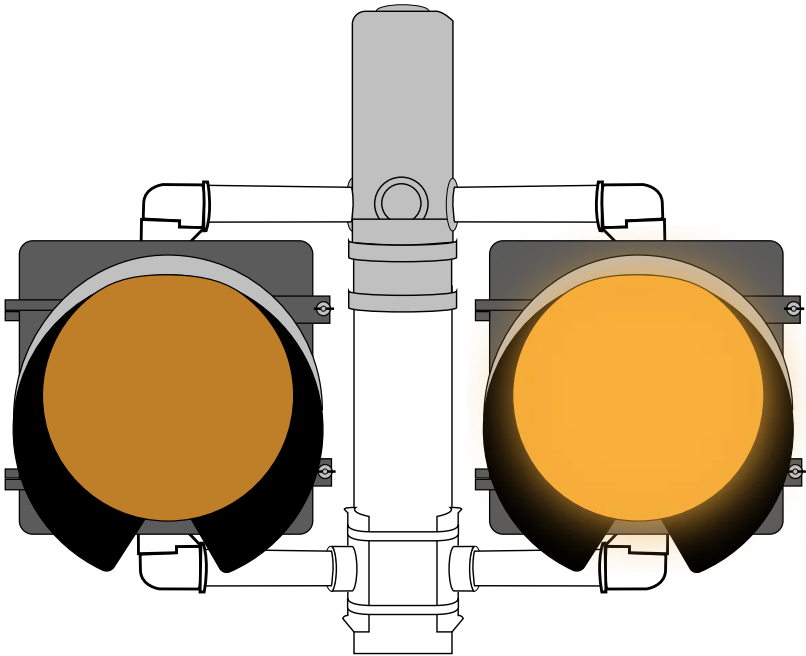
2. Thread two support elbows into the sides of the Slimline hub, facing perpendicular to where the beacon will be facing. Do not tighten the lock ring just yet.
3. Affix the supplied mounting feet on the other two support elbows. Using a large nut and gasket removed in step 1, affix the support elbows to the bottom of the beacon housings (one per).
4. Using the other large nuts and gaskets from step 1, affix the beacon housings to the support elbows applied to the hub in step 2. Leave these loose to allow fluid aiming of the beacons.



<Dual Horizontal Attachment>

Assembling Dual Horizontal Beacons, cont'd...

1. Step 2 through 4 will result in what's seen below.
2. With the beacons now on the post, it is possible to aim and tighten all the brackets assembled in the above steps. See page 12 for aiming notes.
3. Finally, route the cable extensions from inside the beacon housings into the Slimline hub.
4. Refer to Slimline manual for further details about connections and configuration.



<Dual Vertical Attachment>

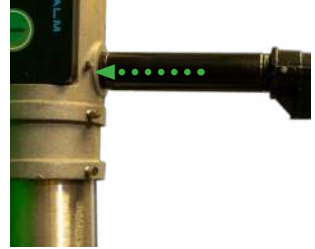
Assembling Dual Vertical Beacons

The Beacons and housings are mounted the post with four support elbows affixed to the top and bottom of the housing per the following instructions:

1. Remove the large bolts and gaskets from the short ends of the four support elbows.



2. Thread one support elbow into the front of the Slimline hub, facing where the beacons will be facing. Do not tighten the lock bolt just yet.



3. Thread the supplied mounting feet onto the other three support elbows. Using a large bolt and gasket removed in step 1, affix the support elbows to the bottom of one beacon housing, and to the top and bottom of the other housing. Use the supplied self tapping screws or banding to affix the lower beacon to the pole.

4. Using the other large bolt and gasket from step 1, affix one beacon housing to the support elbow threaded to the hub in step 2. Leave this loose to allow fluid aiming of the beacons.



<Dual Vertical Attachment>

Assembling Dual Vertical Beacons, cont'd...

1. Step 2 through 4 will result in what's seen below.
2. With the beacons now on the post, it is possible to aim and tighten all the brackets assembled in the above steps. See page 12 for aiming notes.
3. Finally, route the cable extensions from inside the beacon housings into the Slimline hub.

Finally Assembly Notes, all models...

Aiming Beacons

It is the responsibility of the installer to understand and apply the specific project's, or engineer's, recommended aiming of the system. In short, the successful display of visible light to approaching drivers is contingent on proper aiming. Due to the variation in installations, TrafficCalm™ cannot provide specific recommendations.

Making sure it performs for years to come...

1. With the beacon(s) aimed correctly, all the clamps and set screws previously left loose can be tightened to prevent movement, especially consider loosening from wind. All the clamping components are robust, so you can apply a fair amount of torque to ensure tightness; use your best judgment for torquing.
2. Route the solar panel cable down the center tube and into the Slimline Controller or Collaborator hub.
3. For 100 Watt and 150 Watt Kits, install the included stand-alone solar charger inside the Slimline hub as shown below.
4. All connections are made inside the hub and are detailed in the manual included with that assembly.
5. This concludes the assembly and installation of your Top of Pole Solar Panel Kit. Please refer to other literature included with the Controller for further instructions.



<Warranty Statement>

TraffiCalm Systems provides the following warranty for its traffic calming solutions whether sold directly by TraffiCalm or by an authorized TraffiCalm distribution partner.

- TraffiCalm Systems warrants this product, excluding batteries, will be free of defect in materials and workmanship for a period of five (5) years beginning on the day the end user receives the product. Warranty is only valid if the product is ineffective for its intended purpose due to defects in materials or workmanship.
- Warranty is only valid if the product is installed, operated and maintained in accordance with the manufacturer's instructions and recommendations (available upon request).
- TraffiCalm's sole responsibility, and the purchaser's and users' exclusive remedy, shall be that TraffiCalm will either repair or furnish replacements for defective parts.
- Replacement parts will carry the unexpired warranty of the parts they replace. Any repairs conducted on out-of-warranty items will carry a 90 day warranty.
- Claims made under this warranty will be honored only if TraffiCalm is notified of a failure within the warranty period, reasonable information requested by TraffiCalm is provided, and TraffiCalm is permitted to verify the cause of the failure.
- TraffiCalm assumes no liability for any incidental or consequential damages, in any way related to the product regardless of the legal theory on which the claim is based.
- TraffiCalm Flashing Sign Systems are designed, tested, and warranted to operate as a matched component system. The warranty is voided if all system components for controllers, collaborators, and LED rings are not TraffiCalm equipment and third party devices are substituted without prior written approval from TraffiCalm.

This warranty does not cover damage resulting from:

- Accidents, vandalism, impact with a foreign object, or acts of God.
- Product modifications made by someone not authorized by TraffiCalm
- Failure of Customer to follow TraffiCalm's published operating instructions,
- Failure to follow TraffiCalm's published site selection and installation instructions,
- Removal or relocation of the unit,
- Electrical work external to the unit, virus/hacker activity, and external computer errors.

THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY.