

# LI-COR TERRESTRIAL SENSOR BUOY MOUNT

## INSTALLATION INSTRUCTIONS FOR CB-450 AND SMALLER BUOY MODELS



Figure 1: CB-LI-M Li-COR Terrestrial Sensor Buoy Mount.

### Overview

The NexSens LI-COR Terrestrial Light Sensor Buoy Mount provides a means of securely installing LI-COR terrestrial light sensors to a CB-Series data buoy. The mounts are lightweight to reduce the impact of top-side weight on buoy stability.

### What's Included

#### CB-LI-M Parts

- (1) Bottom mounting adapter for solar tower
- (1) 1-ft. Antenna extension mast
- (1) 1/2" Oversized flat washer
- (1) 214 Silicone O-ring
- (1) 1/2" Split lock washer
- (1) 1/2-13 x 1-1/2" Hex cap bolt
- (3) #8 Internal tooth lock washers
- (3) #8 Flat washers
- (3) 8-32 x 3/4" Philips head screws

### CB-LI-M Installation on Buoy Solar Tower

- 1 Use a 9/16" socket to remove the white top plate from the buoy's solar tower.

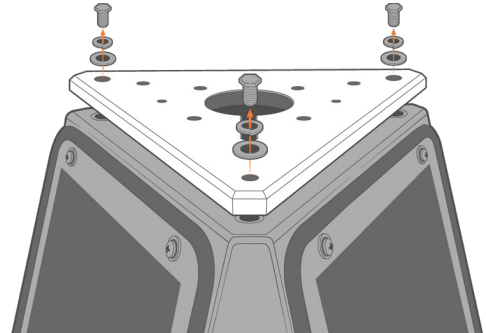


Figure 2: Solar tower top plate removal.

- 2 Use a 3/4" socket to remove the 1-1/2" bolt, lock washer, and oversized washer from the base of the mast mounting adapter.
  - a. Insert the 1-1/2" bolt, lockwasher, and oversized washer through a vacant mounting hole on the plate.
  - b. Thread the adapter onto the bolt on the opposite side of the plate and tighten using the 3/4" socket.

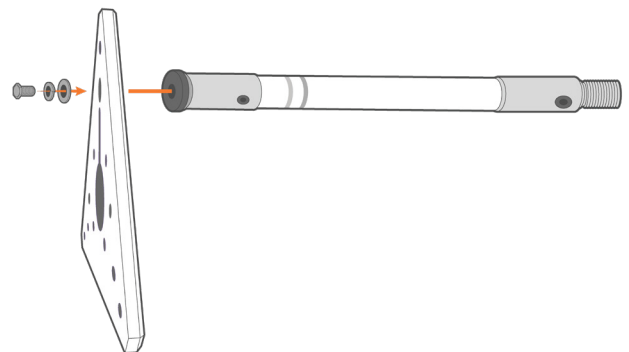
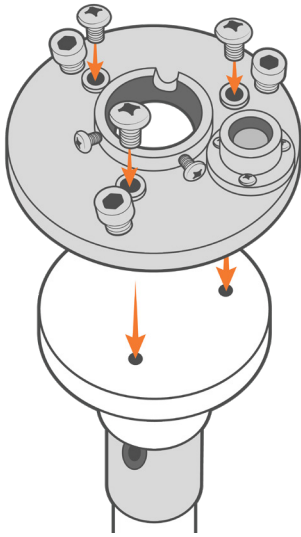


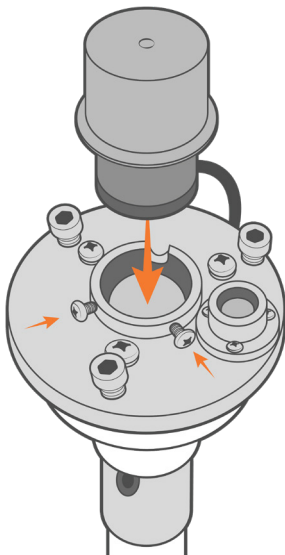
Figure 3: Mast attachment to solar tower plate.

- 3 Install the Li-COR leveling fixture onto the mount using a Philips screwdriver and the (3) included screws.



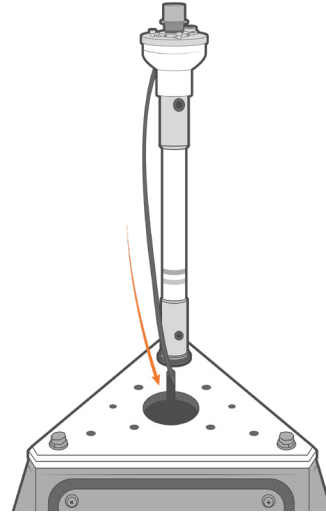
**Figure 4:** Attach the Li-COR leveling fixture.

- 4 Place the Li-COR sensor in the middle of the fixture with the cable routed through the slot opening.
- Tighten the two side screws to secure the sensor.
  - Ensure to remove the red cap before deployment.



**Figure 5:** Insert and secure the Li-COR sensor.

- 5 Route the plug through the center hole on the plate and move the cable within the open groove extending from the center hole.
- It is recommended to zip tie the cable to the mount and provide cable armor around the portion of the cable in contact with the open groove.



**Figure 6:** Route the Li-COR cable to the X2-CB logger.

# LI-COR TERRESTRIAL SENSOR BUOY MOUNT

## INSTALLATION INSTRUCTIONS FOR CB-650 AND LARGER BUOY MODELS



Figure 1: CB-LI-M Li-COR Terrestrial Sensor Buoy Mount.

### Overview

The NexSens LI-COR Terrestrial Light Sensor Buoy Mount provides a means of securely installing LI-COR terrestrial light sensors to a CB-Series data buoy. The mounts are lightweight to reduce the impact of top-side weight on buoy stability.

### What's Included

#### CB-LI-M Parts

- (1) Bottom mounting adapter for solar tower
- (1) 1-ft. Antenna extension mast
- (1) 1/2" Oversized flat washer
- (1) 214 Silicone O-ring
- (1) 1/2" Split lock washer
- (1) 1/2-13 x 1-1/2" Hex cap bolt
- (3) #8 Internal tooth lock washers
- (3) #8 Flat washers
- (3) 8-32 x 3/4" Philips head screws

### CB-LI-M Installation on Buoy Solar Tower

- 1 Thread the extension mast onto the pre-mounted base on the solar tower.

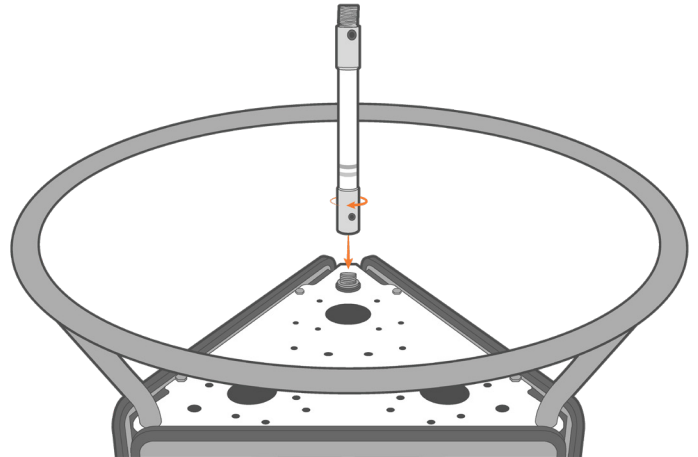


Figure 2: Attach the extension mast onto the solar tower.

- 2 Install the Li-COR leveling fixture onto the mount using a Philips screwdriver and the (3) included screws.

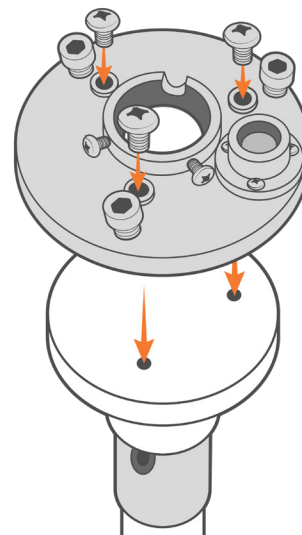


Figure 3: Attach the Li-COR leveling fixture.

- 3 Place the Li-COR sensor in the middle of the fixture with the cable routed through the slot opening.
- Tighten the two side screws to secure the sensor.
  - Ensure to remove the red cap before deployment.

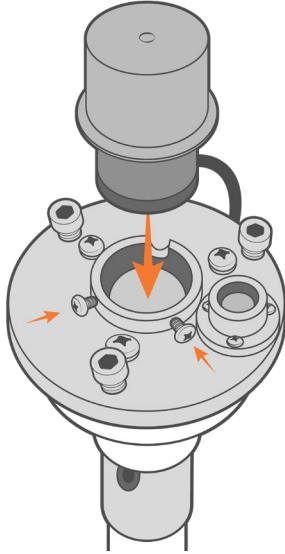


Figure 4: Insert and secure the Li-COR sensor.

- 4 Route the plug through the nearest hole on the solar tower.
- It is recommended to zip tie the cable to the mount and provide cable armor around the portion of the cable in contact with the open hole.

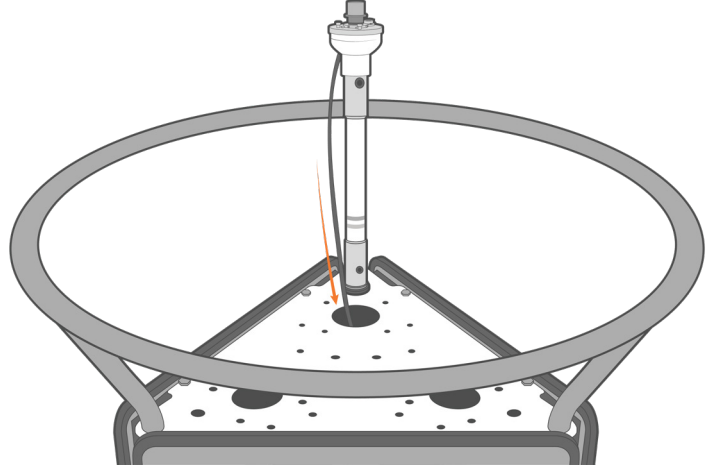


Figure 5: Route the Li-COR cable to the X2-CB logger.