M550 SOLAR MARINE LIGHT

INSTALLATION AND BEACON CONFIGURATION

Figure 1: NexSens M550 1-3 Nautical Mile Solar Marine Light.

Overview

The NexSens M550 solar marine lights are designed for mounting to the CB-Series data buoys per USCG requirements. The beacons are programmed using an IR remote and a set of commands to check power and set the flash code.

What's Included

Beacon equipment

- (1) IR remote programmer
- (4) 1/4" Flat washers
- (2) 1/4-20 Nylon hex locknuts
- (2) 1/4-20 x 1-3/4" Hex head cap bolts (partially threaded)
- (2) 1/4-20 x 2" Hex head cap bolts (fully threaded)

IR Remote Programming

1. Point the IR remote at the side of the M550 and hold down the power button for approximately three seconds.

    a. The beacon will illuminate dimly and grow brighter over a 2-3 second span.

2. Check the battery status of the beacon by entering the passcode sequence ⏻ 8 1 0 ✓

    a. Note: The beacon will flash as each button press is registered. Once entered, the beacon will flash quickly 3 times to acknowledge the command.

    b. Observe the following flash patterns:

    - 1 flash indicates a battery replacement is required.
    - 2 flashes means the batteries need charged. (Place in direct sunlight to charge).
    - 3 flashes signify an adequate battery charge.

3. Set the flash code for the beacon.

    a. Example: A one second flash duration every 4 seconds would require the following code ⏻ 0 6 6 ✓

    b. More flash code patterns can be found within the M550 user manual at the link below or the manual included with your order.

    - fondriest.com/m550man

Installation on NexSens Solar Tower

(1) Remove the plate from the top of the solar tower using a 9/16" socket wrench.
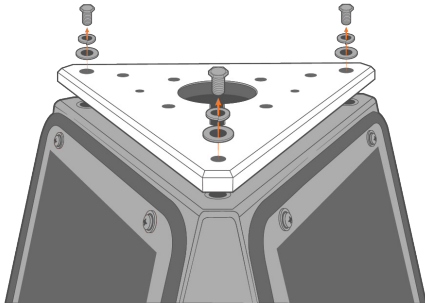

Figure 2: Remove the solar tower plate.

(2) Locate the two top mounting holes on the plate and align the beacon bolt holes.

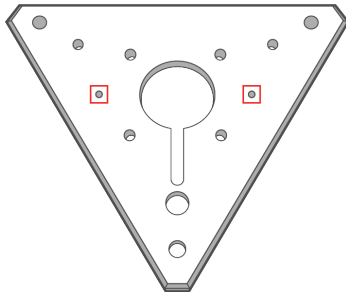   a. Insert two bolts with a lockwasher and flat washer through the beacon bolt holes and holes on the top plate.
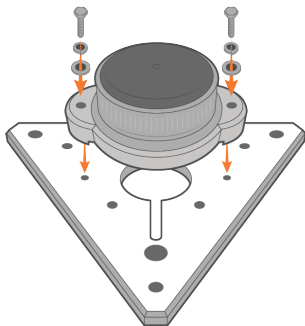

Figure 3: Beacon mount locations.

Figure 4: Align and mount the beacon.

(3) Place a flat washer on the bottom part of the each bolt and thread on a nut.

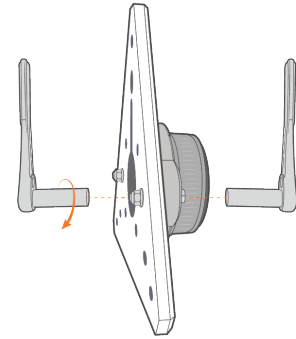   a. Use a 7/16" socket wrench on each side of the bolt to tighten the nut.

Figure 5: Tighten down the beacon.

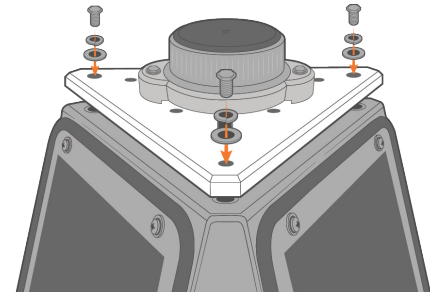(4) Re-install the top plate using a 9/16" socket wrench to tighten down the bolts removed in the first step.

Figure 6: Re-install the top white plate.

Powering Off The Beacon

(1) Whenever a beacon will be stored indoors for more than a day, it should be turned off to preserve battery.

   a. Turn off the beacon by pointing the IR remote at the side of the beacon and holding down the power button for 4 seconds.

   b. The beacon will illuminate brightly and gradually grow dimmer over a 2-3 second span.

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