

# PERKO® 0210 Series LED Navigation Light Installation Instructions

## Base Mount Series Lights

The above lights are designed for use on sail and power driven vessels under 20 meters (65.6 ft.) in length operating on 12 to 24 volt systems. In order to comply with '72 COLREGS and the U.S. Inland Rules, the following must be adhered to:

### MOUNTING INFORMATION

Read all instructions before proceeding

For proper light selection, positioning and configuration, refer to the A.B.Y.C. Standard A-16\*, the '72 COLREGS\* and the U.S. Inland Rules\*. The red & green side lights are for Replacement Use Only.

Consider the placement of the light to give:

- Correct positioning of the light on the boat and
- The most convenient locations for cleaning.

To ensure the correct optical performance of the lights:

- Mount the red (port) and green (starboard) sidelights on a horizontal surface in the same thwartship plane and at the same height above the waterline at least one meter below the masthead light with the symbol (⇐) parallel to the boat centerline and pointing to the bow.
- Mount the white masthead light on a horizontal surface on the centerline clear of all other lights with the symbol (⇐) parallel to the boat centerline pointing to the bow. On boats less than 12 meters in length, mount at least 1 meter above the sidelights. On boats 12 meters in length and above but less than 20 meters in length, mount no less than 2.5 meters above the gunwale, and at least 1 meter above the sidelights.
- Mount the white stern light and yellow towing light on a horizontal surface on the centerline and high enough not to be obscured by a following sea, with the symbol (⇐) parallel to the boat centerline pointing to the bow.
- Mount the All-Round lights on the centerline and clear of obstructions. When two or more lights are in a vertical line, there must be at least 1 meter vertical separation between the lights.

### Base Mount Installation

- At selected location, draw a 6 inch line perpendicular to the centerline.
- Mounting holes are used to obtain correct alignment. Mount lights with holes at right angles to boat centerline. Place the mounting base on the drawn line such that the line is visible through the center of each of the mounting holes and the symbol (⇐) points toward the bow.
- Mark the mounting surface through the mounting holes, remove the base, and drill for #10 screws.
- Drill an electric cable hole midway between the mounting holes.
- Bring the supply cable through the access hole in the center of the mounting base.
- Mount base (using #10 screws) with symbol (⇐) parallel to boat centerline and pointing toward the bow.
- Connect cables to the light - Observe Polarity.
- Turn clockwise firmly until catch engages.
- To remove the light from the mounting base once installed, separate the mounting base from the light by inserting a screwdriver blade into the catch release notch while twisting the light counterclockwise.

### Electrical Connections

Attach supply connections to the light, making sure to wire in accordance with both A.B.Y.C. Standard E-9\* and U.S. Coast Guard Safety Standards for Boat Electrical Systems (33 CFR 183)\*.

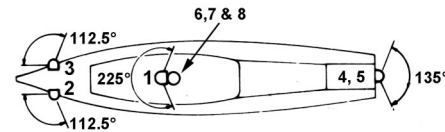
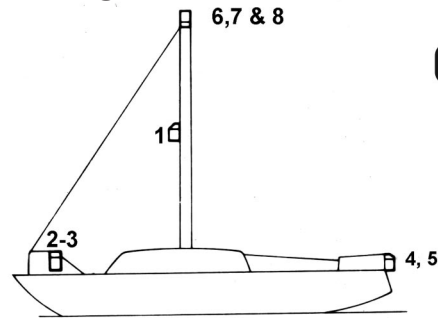
Always use cable of sufficient size to ensure total voltage drop is less than 0.5 volt for a nominal 12 volt installation (1 volt drop with 24 volt installations). Recommended minimum cable size 1.5mm<sup>2</sup> (No. 16 AWG.).

**LED** - These lights have no user serviceable parts.

**Cleaning:** Use only fresh water and mild detergents to clean.

\* The above referenced Standards can be obtained from.

- American Boat & Yacht Council, Inc  
613 Third Street, Suite 10  
Annapolis, MD 21403
- U.S. Coast Guard  
Washington D.C. 20593  
(or your local C.G. office)



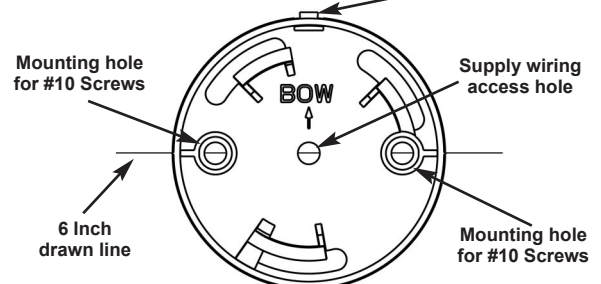
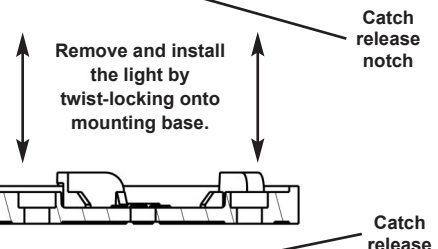
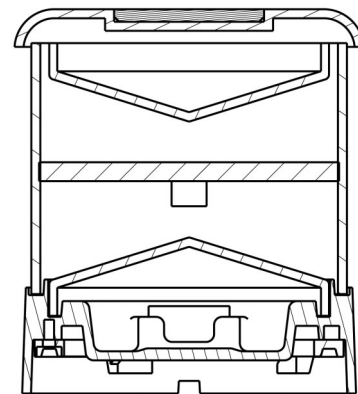
Light	Color	Visibility Arc	Cat. No.	Visibility
1. Masthead	White	225°	0210MB0	3nm
2. Port*	Red	112.5°	0210PB0	2nm
3. Starboard*	Green	112.5°	0210SDB	2nm
4. Stern	White	135°	0210SNB	2nm
5. Towing	Yellow	135°	0210TWB	2nm
6. All Round	White	360°	0210SWB	2nm
7. All Round	Red	360°	0210SRB	2nm
8. All Round	Green	360°	0210SGB	2nm

\* For Replacement Use Only not certified to A-16 (2016)

The above lights are all approved for 12V or 24V applications



### Base Mount Light Diagram



# PERKO® 0210 Series LED Navigation Light Installation Instructions

## Top Mount Series Lights

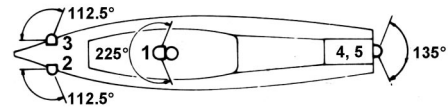
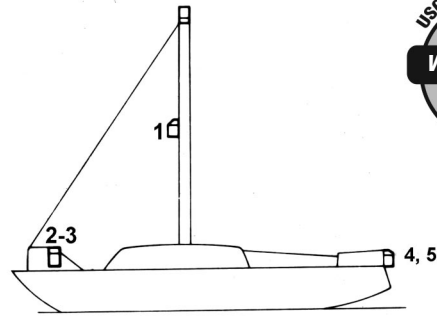


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- The most convenient locations for cleaning.

To ensure the correct optical performance of the lights:

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- Mount the white masthead light on a vertical surface on the centerline clear of all other lights with the symbol (⇌) parallel to the boat centerline pointing to the bow. On boats less than 12 meters in length, mount at least 1 meter above the sidelights. On boats 12 meters in length and above but less than 20 meters in length, mount no less than 2.5 meters above the gunwale, and at least 1 meter above the sidelights.
- Mount the white stern light and yellow towing light on a vertical surface on the centerline and high enough not to be obscured by a following sea, with the symbol (⇌) parallel to the boat centerline pointing to the bow.

### Top Mount Installation

- Strip cable outer insulation to required length.
- Locate mounting location and draw 6" level horizontal reference line
- Align wall plate so that the horizontal line is visible through the bottom two mounting holes on the wall plate as shown in Diagram 1.
- Mark three holes for #8 RH mounting screws and electric cable hole.
- Drill holes for electric cable and mounting screws.
- Snap the mounting bracket onto the wall plate as shown in Diagram 2.
- Bring the supply cable through the access hole in the center of the mounting bracket and wall plate.
- Attach mounting bracket and wall plate to mounting surface. Use three #8 RH or PH screws.
- Connect light assembly to power supply. Observe polarity.
- Mount light assembly onto the hook on the mounting bracket and use two #8 flat head screws to secure light assembly to the wall plate as shown in Diagram 3.

### Electrical Connections

Attach supply connections to the light, making sure to wire in accordance with both A.B.Y.C. Standard E-9\* and U.S. Coast Guard Safety Standards for Boat Electrical Systems (33 CFR 183)\*.

Always use cable of sufficient size to ensure total voltage drop is less than 0.5 volt for a nominal 12 volt installation (1 volt drop with 24 volt installations). Recommended minimum cable size 1.5mm<sup>2</sup> (No. 16 AWG.).

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4. Stern	White	135°	0210SNT	2nm
5. Towing	Yellow	135°	0210TWT	2nm

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