

# RGB Under-Deck Pontoon LED Light Kit Installation Instructions

## The kit contains:

- 2 under-deck RGB LED light strips with plugs
- 1 under-deck 4-circuit RGB wire harness with plugs
- 4' sections of clear polycarbonate mounting channel
- RGB Control Module and Keypad

## The RGB under-deck LED light kit installs in 4 steps:

### Step 1 – Mounting channel installation

The mounting channel provided will allow a continuous mounting surface for both LED light strips. Lay out one-half of the mounting channels on each side of the boat. Measure for the length required for the LED lights, and cut the plastic mounting channels to match. Center the mounting channels on each side of the boat, making sure they can be mounted in the same location on both sides of the boat.

There is normally a gap between the end of the cross channels and the side trim. If mounting directly to the underside of the deck, drill 1/8" holes in the plastic mounting channels at intervals of approximately 8". Secure the mounting channels to deck using stainless #6 pan head screws, stainless #4 flat-head screws, or pop-rivets. The cross channels may extend all the way to the side trim; either secure the mounting channel directly to the side trim flange or on every cross channel. Along with drilling through the mounting channel, you will also need to drill pilot holes in the aluminum side trim flange or cross channel. Install the LED lights so they reflect off of the water and/or the pontoon tubes. Install the lights so they will not be seen in direct view from another boat.

No drilling is required if using the mounting channel with tape. See critical process instructions for this procedure.

### Step 2 – RGB LED strip light installation

Install your under-deck RGB LED lights into the mounting channel (above). It is usually easier to make the plug connection for the under-deck LED lights at the stern of the boat. So, beginning at the stern end of the mounting channel, begin snapping the under-deck LED strip into place, and continue to the bow. If necessary, the LED light strip length can be shortened by using a pair of scissors and carefully cutting on the "cut line" located every 6 1/2". After cutting, remove the original silicone end-cap and apply a small amount of clear silicone in the cap and re-install the cap on the cut end of the LED light strip. Repeat the same process on the other side of the boat. Once the LED light strips are installed, apply a liberal amount of silicon at each end of both LED light strips.

### Step 3 – RGB 4-circuit wire harness installation

The RGB wire harness is shaped like the letter "V". The apex of the "V" will connect to the Control Module with the plugs provided (one 2-position plug for power and ground and one 4-position plug to control the LED lights). The other ends of the "V" connect directly to the 4-way plugs on the ends of the RGB LED light strips. Route the wire harness on the bottom of the pontoon deck along with other wiring. One of the leads on the under-deck harness is longer than the other. Use this one to connect to the port side RGB LED light strip. For the port side, run the wire across the width of the pontoon boat with other wiring and/or a cross channel.

The starboard side of the harness contains a dedicated battery lead which will power the RGB Control Module. Connect the Red wire to the battery positive terminal and connect the Black wire to the battery negative terminal.

Secure the under-deck wire harness every 12-18", and make sure the harness will not become snagged by a trailer or other obstacles under the boat.

### Step 4 – RGB Control Module mounting and connection

**Control Module mounting:** Carefully mount the RGB Control Module in a convenient location inside the helm.

**Control Module connection:** The Control Module is equipped with a 2-position plug and 4-position plug. After mounting the Control Module, connect the Control Module plugs to the corresponding wire harness plugs, making sure that the colors align properly from plug to plug.

**Control Module Keypad:** Install the batteries (provided) into the Keypad. The Keypad and Control Module operate on RF and can communicate with each other up to 40 meters in most applications. Follow the directions enclosed in the Control Module box for the Keypad and LED functions.

**Caution:** The RGB LED system should have a *maximum* 10 amp fuse or circuit breaker.