

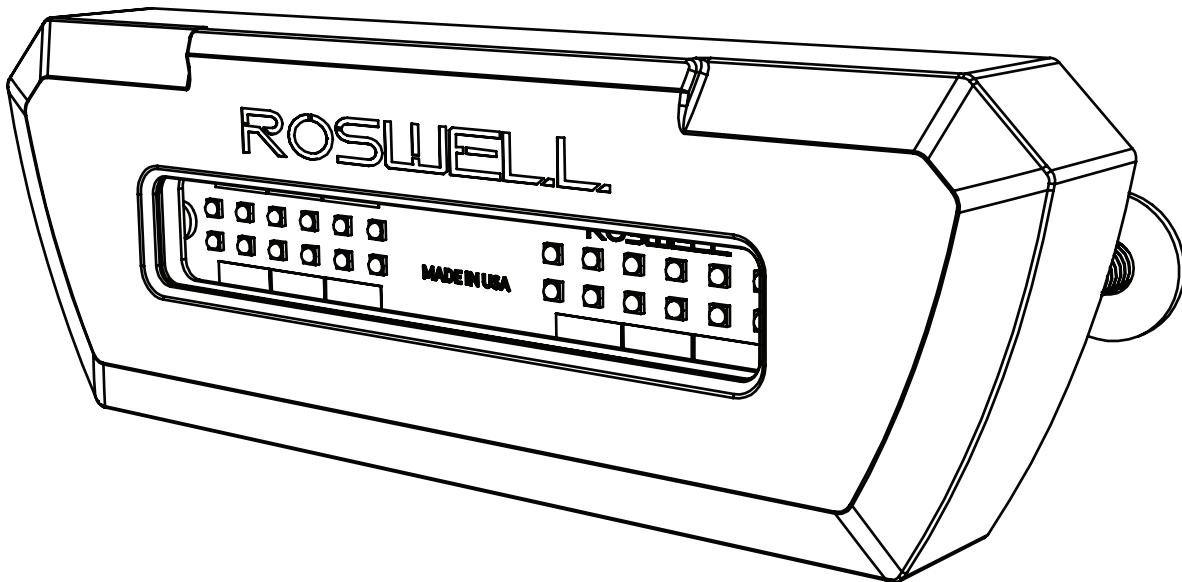
**ROSWELL.**

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# Nightwave Under Water Light

Installation Instructions



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**Part # C910-1710 White & C910-1711 Blue**

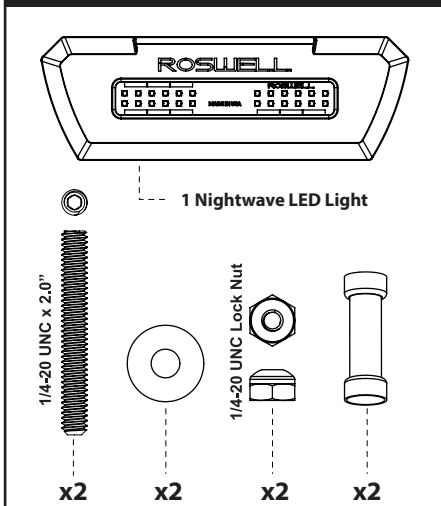
**Warranty:** [warranty@roswellmarine.com](mailto:warranty@roswellmarine.com)

**Information:** [info@roswellmarine.com](mailto:info@roswellmarine.com)

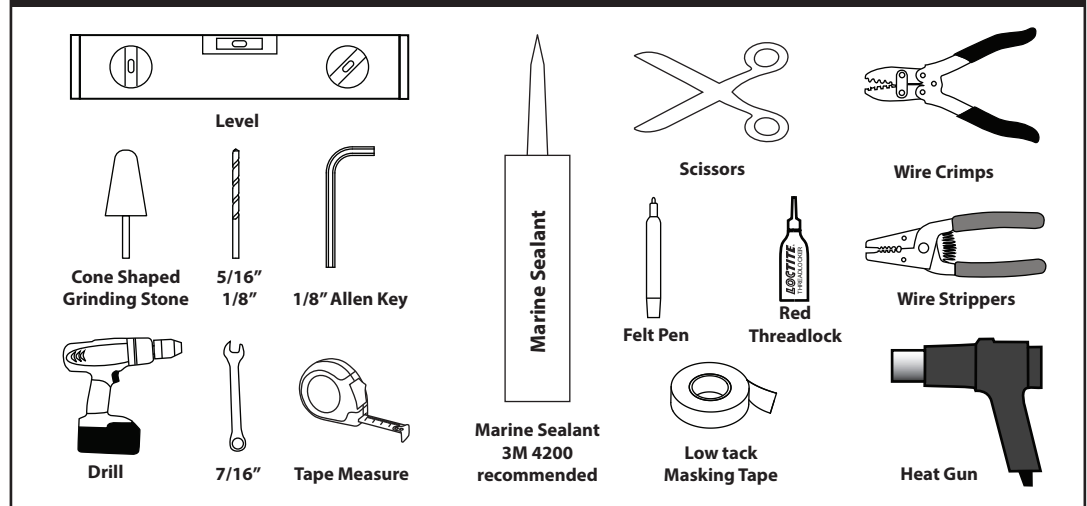
**Questions:** 1-321-638-1331



## PACKAGE CONTENTS



## TOOLS NEEDED



**WARNING: Do not operate light out of water. Nightwave lights require water to cool the light. Operating the light out of the water could overheat and damage the light and/or boat.**

## MOUNTING POSITION

The ideal mounting position is on a flat vertical surface of the transom which will be 3"-12" below the level of the water with the boat at rest. Be sure that the light will not interfere with or be blocked by any transom mounted components; trim tabs, surf tabs, etc. The included hardware will accommodate transoms up to 1.25" thick.

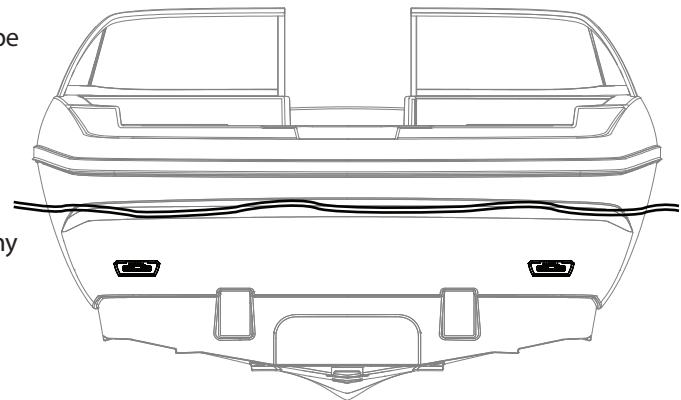
Once you have chosen an ideal exterior location be sure to verify there is accessible and ample room on the inside of the boat for hardware and wiring. Make sure to check for wires, fuel and hydraulic lines, fuel and ballast tanks, or any other component that could be damaged while drilling or mounting your light.

## ELECTRICAL REQUIREMENTS

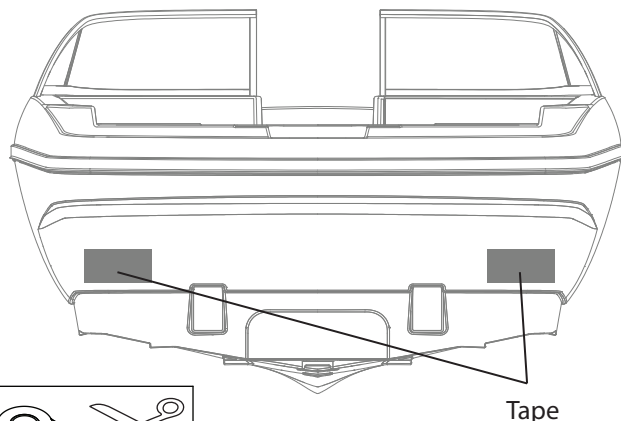
The Nightwave Pro can operate with an input voltage between 9 and 30 volts. Roswell recommends 16 gauge wire as a minimum.

## WARNING

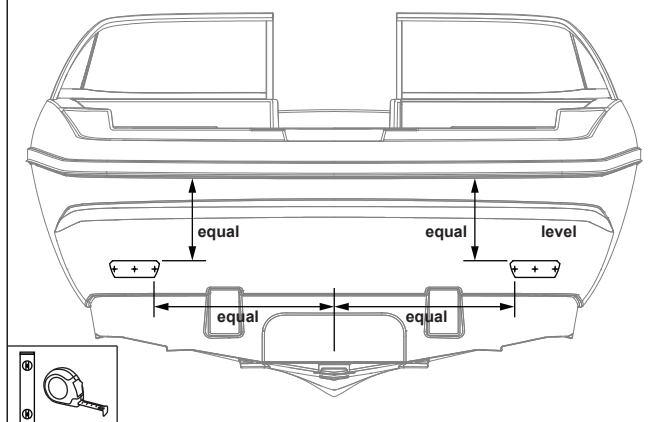
Do not look directly into the Nightwave Pro as it is *extremely* bright.



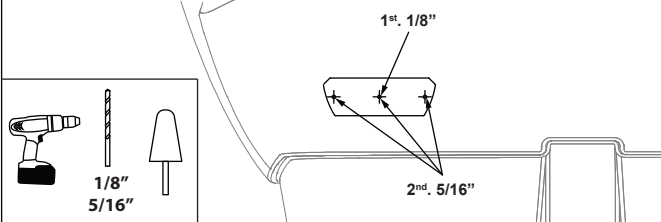
**A** First apply masking tape in a 6"x12" rectangle to the area of where your underwater light will go. Next locate the drilling template, check the reference ruler against your tape measure to make sure it is printed to scale and then cut out the drilling template along the dotted line.



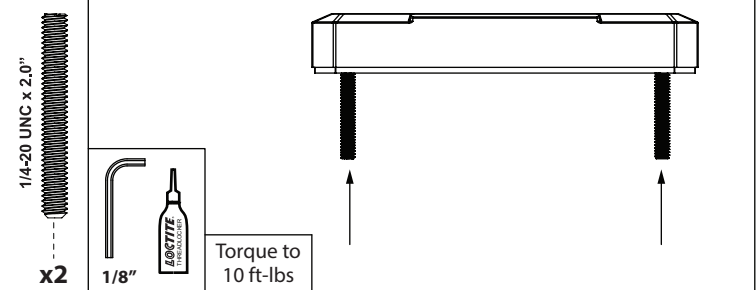
**B** Position the drilling template in its appropriate spot. Check to make sure the template is level using a bubble level and check the position of the templates are symmetrical by measuring to a central horizontal reference point and check the vertical symmetry using a common reference point as well. Tape the drilling template in place when everything is symmetrical.



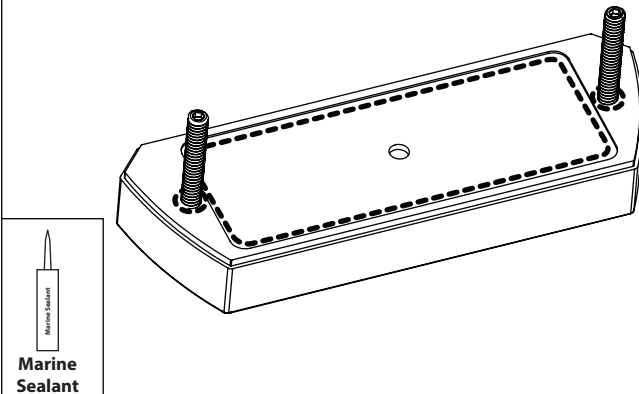
**C** Once you are satisfied with the location of the drill template and have double checked for clearance on the inside of the boat drill out the center wiring hole with a 1/8" drill bit. Leaving the bit in the newly drilled hole double check for clearance in the inside for all three holes. If clearance is good drill out all three holes with 5/16" bit. Use a rotary tool or drill with a grinding stone to de-burr the holes this help prevent cracks from forming.



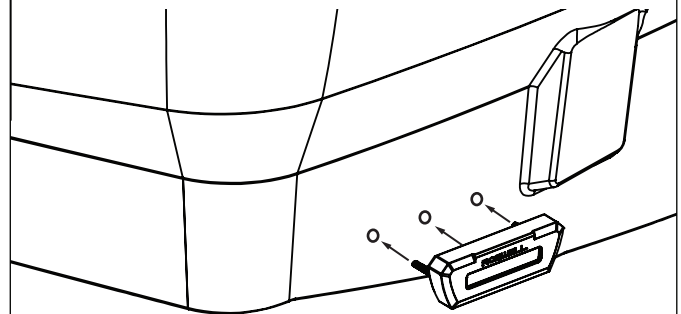
**D** Apply thread lock to the mounting studs and thread them into the light housing until they bottom out. Moderately tighten the bolts (10 ft-lbs). Note: Any boat with a transom thicker than 1.25" will require longer mounting studs. 1/4"-20 threaded rod can be cut to length and used for these installations.



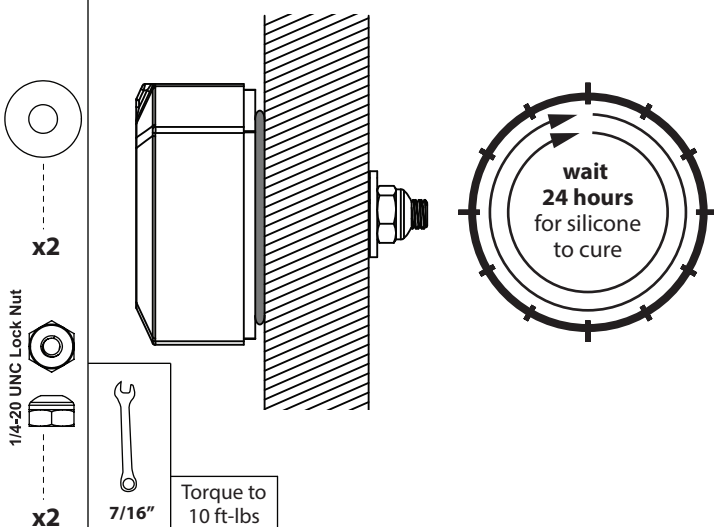
**E** Using marine sealant (we recommend 3M 4200) run a consistent bead of about a 1/4" diameter around the mounting bolts and around the edge of the potted circuit board (dotted line on illustration below).



**F** Feed your wires into the center hole and then carefully insert the mounting studs into their holes. Press the light very **gently** against the hull so that the silicone is compressed slightly and creates a full seal. Ideally the silicone will form a thick gasket between the hull and the light, which will allow for some flex and movement creating a more durable seal.

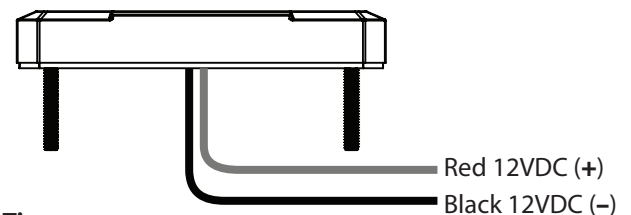


**G** Install the washers and locknuts onto your lights now. Tighten the nut very gently- just enough so the silicone bead is slightly compressed (the aluminum housing should not be touching the gel coat anywhere). For the absolute best possible result let the silicone cure for 24 hours before proceeding. *After* the silicone has cured tighten the locknuts to 10 ft-lbs.



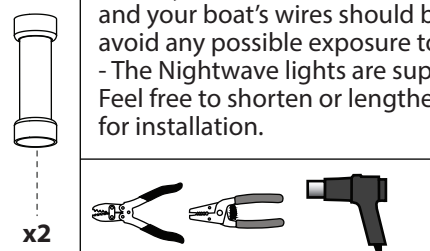
**H** Disconnect your battery before wiring

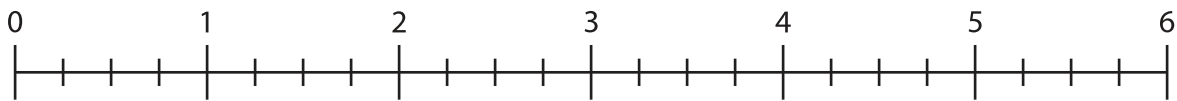
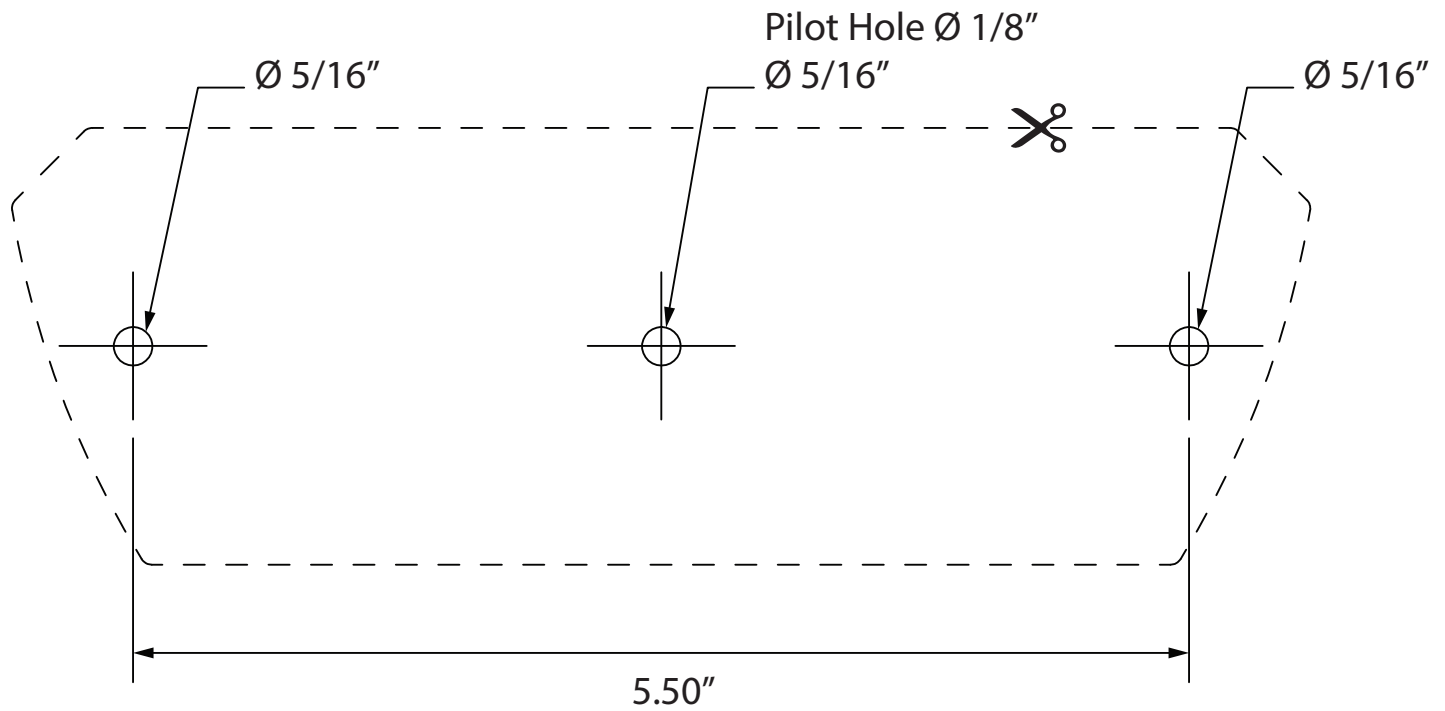
Wire your lights into your boats electrical system. Note that the Nightwave wiring is polarity sensitive. If the Nightwave is wired backwards it will not turn on.



#### Tips:

- Roswell recommends a minimum of 16 gauge wire with a 15 amp fuse and a 15 amp rated switch. This rating is suitable for one pair of lights with no more than 30 feet of wire.
- Ideally the connection between the Nightwave wires and your boat's wires should be above the water line to avoid any possible exposure to water.
- The Nightwave lights are supplied with 36" wiring leads. Feel free to shorten or lengthen these leads as needed for installation.





Reference Scale (inches): Do not drill if scale is off  
Print template 1:1 scale only