Neptune™ Through-Hull Mounted Underwater LED Light Manual

Thank you for purchasing Dr. LED's Neptune underwater LED light.

This 500+ lumen Neptune underwater light outperforms other underwater LED lights in the same category in terms of per LED per dollar performance. Three US made high-flux LEDs provide the highest lumen-per-watt underwater light ever made.

Features:

* Three state-of-the-art 3W US made high-quality high-flux LEDs provide the most lumen-per-watt in LED technology
* High-intensity white LED light travels farther underwater for maximum visibility and truer colors
* Instant on, no warm-up of bulb needed
* Aerospace-grade aluminum composite body
* Long service life, shock proof, ultra-rugged with no filament to burn out or break
* Multi-voltage 12VDC or 24VDC
* Can be operated out of water
* Serviceable from inside the boat, if needed
* NMMA, USCG, ISO 8846 & SAE J1171 Ignition Protection Certified
* ABYC H-27 Side Load Test Certified

Part #	Description	Volts
8001597	**Underwater thru-hull LED light, Cool White 500+ Lumens**	**12/24 VDC**
8001603	**Underwater thru-hull LED light, Blue Light**	**12/24 VDC**
8001689	**Underwater thru-hull LED light, Green Light**	**12/24 VDC**

Specifications:

Lens Bezel, Body End Cap, Cable Gland Nut, & Body Lock Nut:
Aerospace-grade aluminum composite

Lens: Toughened/Heat Treated Glass (12mm thick)

Gasket: High Temperature (200 deg. C) Silicone Rubber

Lamp Cable: High Temperature (200 deg. C) Silicone Rubber Insulated Cable

Weight: ~ 1.3 kg (2.8 lb)

Mechanical Installation:

Installation must be carried out by qualified technician.

Select a mounting location with the desired visibility and a stable sturdy mounting surface. The light may be placed above or up to 3 meters below the waterline. Make sure there is adequate access to mounting area before drilling the hull. Drill a ~68mm (~2 11/16") diameter hole in the hull (1" = 25.4mm).

Make sure the Light End Plate and the Cable Gland Nut are tightened as depicted in Drawing M500-1 on page 4.

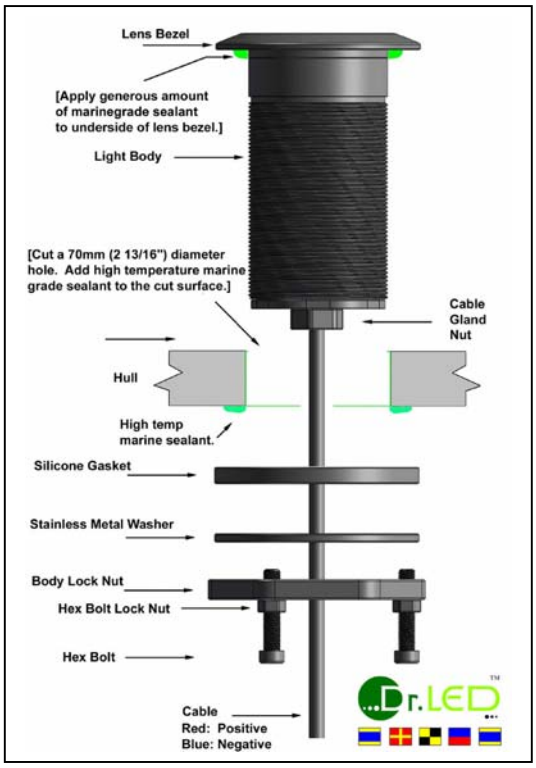
Apply generous amount of marine grade sealant to the underside of the Lens Bezel, around the inside and the backside of the cored surfaces as depicted in Drawing M500-2 on page 5.

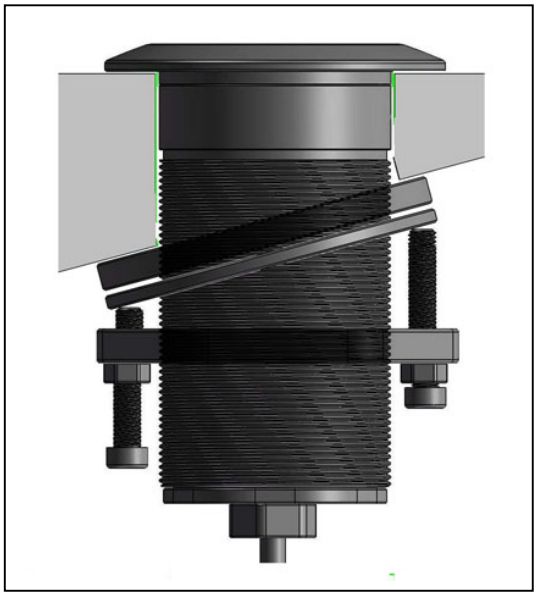
Gently insert the Light Body through the cut hull pressing firmly, checking for a tight seal, and wiping off excess sealant. From the inside place the Silicon Rubber Gasket into the Light Body. Then slide the Stainless Steel Metal Washer against the Rubber Gasket.

Apply bottom paint to the light to protect it from corrosion.

Please use M8 wrench and nut driver.

Loosen the three M8 Hex Bolt Lock Nuts and the three stainless M8 Hex Bolts on the large Body Lock Nut. Screw the large Body Lock Nut onto the threaded Light Body until one of the Hex Bolts is touching the Metal Washer. Adjust the three M8 Hex Bolts to the contour of hull then tighten them making sure that there is adequate compression of the gasket for a watertight fit.





Bottom paint should be applied to the light to protect it from corrosion.

Electrical Wiring and Connections:

All wiring must be carried out by qualified technician. With low voltage DC wiring, the risk of fire may be present if wiring is not correctly installed (if in doubt, ask). It is critical that the wire gauge used, be of sufficient size for the current draw. Make sure the correct size fuse is used (1A Slow Blow per light). The brown wire is positive and the blue wire is negative.

Maintenance:

Ensure the lens is kept clean at all times. Do not use abrasive or sharp objects to clean the glass lens; a plastic or rubber scraper may be used if necessary. Keep the lens clear of paint. Failing to do so will result in poor light performance. Carry out regular checks of the housing to ensure it is kept clear and clean. Carry out regular checks of wiring and connectors to ensure they are secured.

When changing LED modules observe the following:
Ensure power is turned off.
Ensure LED module has had sufficient time to cool down.
Ensure housing is clean and dry.

Limited Warranty:

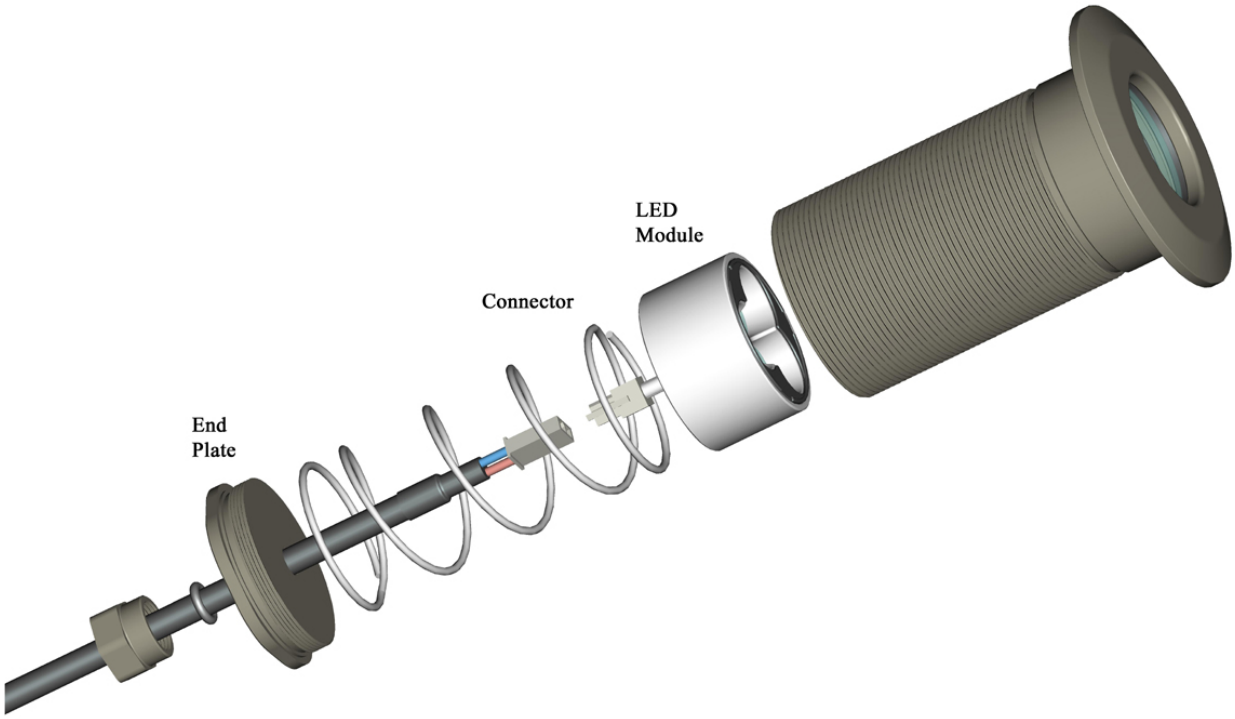
Dr. LED products are warranted for one year against defects in material and workmanship. Any product developing such defect within this period will be repaired or replaced at our option providing it is sent to us, transportation charges prepaid, along with $20.00 to cover the cost of handling. This is not a repair charge. No additional charge will be made unless the warranty period has expired or servicing is made necessary for reasons beyond our control, in which case a charge will be applied. Proof-of-purchase date to Dr. LED must accompany return.

This limited warranty does not cover damages to this product through accident or misuse, nor does it cover any incidental expense to the user resulting from a non-function or mal-function of this product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.

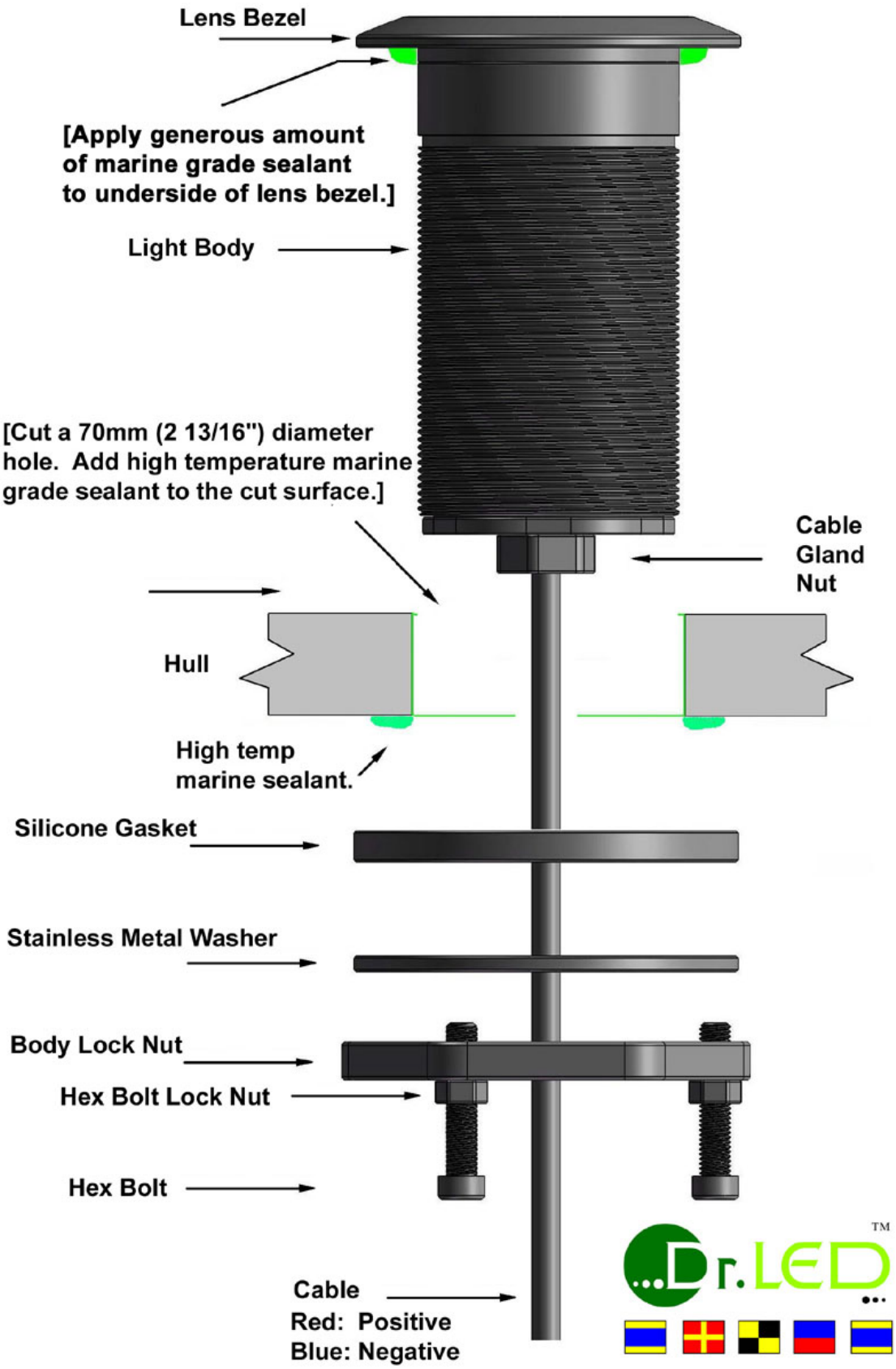
Under no circumstances is Dr. LED responsible for reimbursement of expenses related to vessel haul-outs, technician or yard personnel travel expenses, yacht storage, labor performed during removal and/or replacement of fixture, or expedited shipping costs for replacement parts. These are assumed liabilities of the customer and part of the terms of sale between Dr. LED and its customer. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

Warning or Disclaimer:

Electric shock, extreme serious personal injury or death may result if not used or installed properly. Light unit may become HOT upon use. For handling by qualified adults ONLY. For use with rated voltage ONLY. Dr. LED is not responsible for any damage which may arise from improper use or tampering of this product.



Drawing M500-1



Drawing M500-2