

FIVE YEAR LIMITED WARRANTY*

PERKO, INC. (PERKO) warrants to the original consumer-purchaser that PERKO'S consumer products will be free from defective materials or workmanship, and that the PERKOPLATE/PERKO•KOTE Finish will remain corrosion-free under normal use and service, for a period of five (5) years from the original purchase date. Products installed as original equipment by a boat builder or manufacturer are limited to one (1) year or the duration of the manufacturer's general accessory warranty, whichever is longer.

ALL IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY, ARE ALSO LIMITED IN DURATION TO THE FIVE YEAR PERIOD FROM THE ORIGINAL PURCHASE DATE.

PERKO SHALL NOT BE LIABLE FOR LOSS OF USE OF ANY OF ITS CONSUMER PRODUCTS, NOR FOR OTHER INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES INCURRED BY THE ORIGINAL CONSUMER-PURCHASER OR BY ANY OTHER PERSON.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY OR MAY NOT APPLY TO YOU. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY OR MAY NOT APPLY TO YOU.

This warranty is void if the consumer product warranted has been damaged by accident or unreasonable use, neglect, improper service or other cause not arising out of defects in material or workmanship. Excluded from this warranty are Electric Light Bulbs (lamps), Sealed Beam Units and Fuses.

During the warranty period, your PERKO product will either be repaired or it will be replaced with a like product (at PERKO's option) without charge to the original consumer-purchaser, when returned prepaid and insured, with proof-of-purchase date to PERKO at the address shown below. In the event of replacement, the replacement product will continue the warranty of the original product, or ninety (90) days, whichever is longer.

PERKO does not authorize any person or company to create for it any other obligation or liability in connection with any of its products.

* Due to this application below the waterline, the chrome plated bronze version of Fig. 0174 is limited to a 1 year warranty on the finish. Balance of the warranty terms are as stated above.

PERKO, INC.
16490 N.W. 13th Avenue
Miami, FL 33169-5707
www.perko.com

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PERKO®

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FIGURE NO. 0174 UNDERWATER LIGHT

IGNITION PROTECTED

Installation and Operating Instructions



FIGURE NO. 0174 UNDERWATER LIGHT



IGNITION PROTECTED

Installation and Operating Instructions

Please Read All Instructions Before Proceeding

*General Information:

This light has been shipped with a 12V, 25° bulb installed. A 40° bulb is included in the package for users who desire a wider light beam. Refer to Section 3, "Changing the Bulb", should you wish to change the bulb.

1. Select Mounting Location

- This light must be installed below the waterline and must not be operated unless the outer flange and lens are completely submerged.
- The mounting surface must be flat to insure a watertight seal.
- When choosing a mounting location, make sure there is sufficient room in the bilge to take the back plate off and remove the interior of the light in case the bulb has to be replaced (at least 6").

2. Installation

- Remove boat from water.
- Select mounting location and drill a 2-3/8" diameter hole.
- Epoxy the inside surface of the drilled hole to insure that water will not be absorbed into the hull in case of water intrusion.
- After the epoxy cures, insert the neck of the light through the hull. Put a generous amount of bedding sealant under the outer flange to insure a watertight seal.
- Put a generous amount of sealant on the back of the nut and tighten.
- A bonding screw is attached to the back plate in order for the light to be attached to the vessel's grounding system.
- Attach power cable to fused power source. The 50 watt bulb draws less than 5 amps at 12 volts.

Note: When installing more than one light an optional relay switch is available for use up to 4 lights (12 Volt, PERKO Cat. No. 0061DP1RLY or 24 Volt, PERKO Cat. No. 0061DP2RLY) in order to limit current through a switch and provide ignition protection.



CAUTION:



IF PRIMARY LENS IS CRACKED, BROKEN OR MISSING OR IF SEAL HAS DETERIORATED,
DO NOT OPEN BACK WHILE BOAT IS IN THE WATER

Loosen & slide back the black grommet securing yellow wire. If a leak occurs, retighten grommet.
Identify and repair problem out of the water.

DO NOT OPEN BACK WHILE LIGHT IS ENERGIZED

3. Changing the Bulb

- Before attempting to change the bulb, insure that the water in the bilge is well below the neck of the light. Water must not be allowed to enter the neck of the light.
- Loosen the domed cap on the strain relief fitting (see Diagram 1 below) to allow the rear cap to unscrew without twisting the power cable.
- Remove the bonding wire.
- Unscrew the back plate from the neck and pull out the interior. Remove the bulb from its socket by pulling straight out. Insert the new bulb.

- Replace the interior mechanism, screw on the back plate and tighten the wire connection and reattach the bonding wire.
Note: Use PERKO replacement bulbs (12 Volt, 50 Watt, 25° Beam: Cat. No. 0077DP112V or 12 Volt, 50 Watt, 40° Beam: Cat. No. 0077DP212V).

4. Replacing the Lens

- The vessel must be out of the water to perform this function.
- Remove the light from the hull.
- Remove the six screws that hold the head to the body and separate the two pieces.
- The lens will pop out. Use a PERKO replacement lens (Cat. No. 0174DP1LNS) Any other lens may not withstand the thermal conditions.
- Reassemble as described in Installation Instructions (Sections 2d, 2e, 2f and 2g).

5. Installation and Removal of Colored Lens Filter

Your underwater light comes with a blue filter, a green filter and 2 black o-rings. You can easily change the color of the beam by following these instructions:

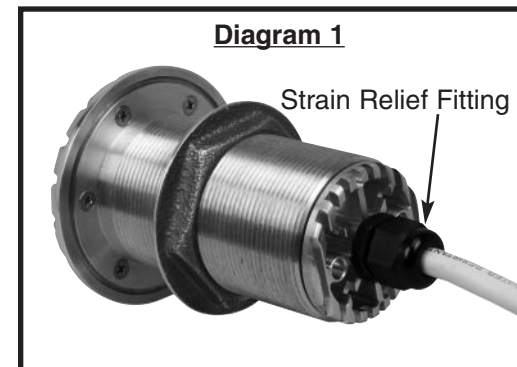
Installation

Just forward of the clear lens is a groove machined into the head. Place the o-ring into that groove, making sure it is firmly seated. Take the filter color of your choice, and press it so that you feel it seat into the o-ring. Press all the way around the filter to ensure it is locked in. When seated, it should be flush with the housing.

Removal

There are several notches in the filter. Pry off the filter with a sharp object, such as a knife or screwdriver. Be careful not to damage the o-ring when removing the filter.

CAUTION: FACE OF UNIT (OUTSIDE HULL) MUST BE TOTALLY SUBMERGED WHILE IN OPERATION IN ORDER TO PREVENT OVERHEATING AND ACTIVATION OF THE THERMAL SAFETY SWITCH.



Replacement Bulbs



12V, 50 Watt, 25° Beam:
Cat. No. 0077DP112V



12V, 50 Watt, 40° Beam:
Cat. No. 0077DP212V