

POLARION

**Polarion
Lamp Replacement
Instructions**

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North American Distributor

The POWER of the Sun in your Hands



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LAMP REPLACEMENT - 1st Generation

Tools Required: Small Phillips Head Screwdriver - #1 - (2) Strap Wrenches to Loosen Bezel



Remove the Battery. Place 1 strap wrench just below the plastic insulator & 1 strap wrench around the insulator and loosen assemblies. Leaving the insulator on the bezel will keep your reflector and retention washer in place.



While the lamp and base are still free, reassemble the clips in their original configuration relative to the lamp base and place the screws into the clip hooks.



Place the entire assembly in safe, dust-free area.



Take the lamp base, along with the clips/screws and place them back into the pocket for the lamp base. Ensure there is no impingement on the electrical wires and the lamp base is properly seated.



NOTE the configuration of the retention clips that hold the base in place.



Tighten the retention clip screws once you have them aligned. Reconnect the electrical connection to the lamp assembly.



Carefully remove the retention clip screws that are located on either side of the HID Lamp Base.



Carefully replace the bezel assembly by aligning it up with the threads on the body. Ensure that you do not make hard contact with the lamp as the lamp is guided through the hole in the reflector.



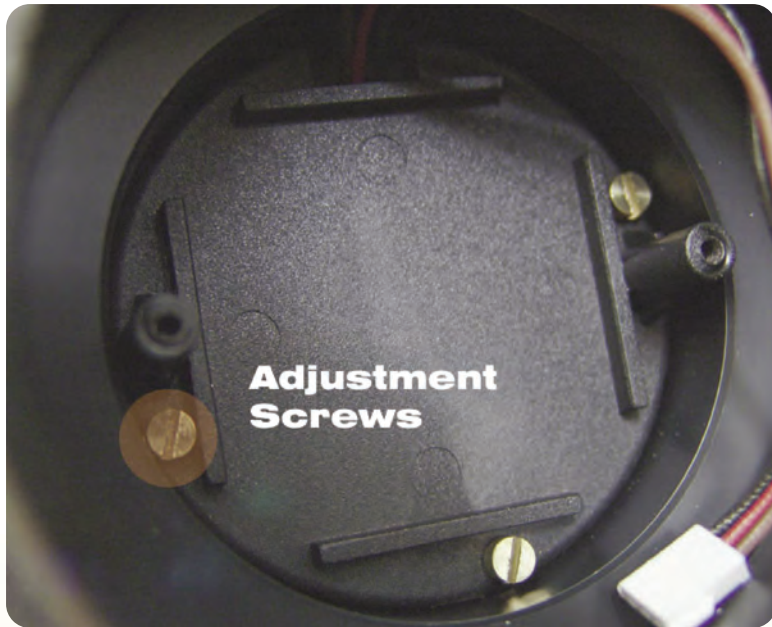
Remove the clips and carefully remove the Lamp. Do not touch the Lamp with your fingers. Use a soft tissue or similar material to avoid getting residue or oil on the lamp.

Remove the electrical connection to the Lamp.



Tighten the bezel assembly fully, ensuring you are not cross-threading the plastic insulator with the body.

Reinstall the battery and test the light for function.



After installation, observe your beam signature/output.

If the lamp is not centered and the beam signature is not to your satisfaction, you can adjust the lamp base platform by incrementally tuning the light with the three spring-loaded brass adjustment screws.

They are situated outside the lamp base and can be adjusted while the lamp is installed.

Adjust these screws until the hot spot within the beam is centered and you achieve the output signature desired.

LAMP REPLACEMENT - 2nd Generation

Tools Required: 2.5mm Allen Wrench - Small Screwdriver - (2) Strap Wrenches to Loosen Bezel

(on Handheld Models Only - Night Reaper CSWL systems do not require these Strap Wrenches)

Removing the Lamp Assembly

- Find a dust free environment prior to initiating this process.
- Remove ANY power source (internal or external) from the searchlight.
- Rotate the searchlight bezel counter-clockwise to access the lamp assembly.
- Carefully separate the bezel from main body of the searchlight.
- Do not touch the polished reflector surface with any hard objects or exposed finger tips.
- Inspect the orange colored O-ring for damage (replace if required).
- Remove the 2 allen screws (2.5 mm) that hold the lamp clamp to the electronics housing.
- Ensure you do not rotate the electronics housing during this process.
- Remove the clamp that secures the lamp to the electronics module.
- Gently pry the old lamp out with small screw driver as it is press fit into the electronics housing.
- Carefully separate the 3-pin connector that couples the lamp assembly to the electronics module.



Removing Bezel
Night Reaper Bezel depicted Here



Loosen and Remove Screws



Remove Retention Clamp



Carefully Separate Plug at the
3-Pin Connector



Do not attempt to access any other portion of the electronics module contained within the searchlight. It will damage your searchlight and it is unsafe to do so.

Installing the New Lamp Assembly

- Reconnect the lamp to the electronics module via the 3-pin connector.
- Ensure the connector is properly aligned prior to applying pressure or you will damage the connector.
- Place the new lamp into the lamp base pocket while ensuring all the internal wiring is laying flat and clear of of impingement with the lamp base as it is press fit into place.
- Ensure you do not touch the glass on the lamp assembly throughout this entire process. Carefully clean the glass if it touched.
- Slip the clamp over the lamp base and secure with the 2 previously removed screws.
- Carefully place the O-ring back into its groove in the bezel. It helps to lightly over stretch it so it naturally sits in the groove.



This O-ring must be properly installed in ensure the water resistance of the searchlight.

- Carefully slip the reflector and reflector retention plate over the newly installed lamp by grasping the entire bezel with those parts contained therein. Ensure that you do so without touching the lamp assembly with any significant downward or lateral force which could damage the wire running the length of the lamp assembly.
- Begin securing the bezel to the searchlight head by rotating the bezel clockwise along the threads. Do not cross thread.
- Once you see both the bezel and searchlight head and O-Ring in close proximity to each other, apply additional force to wedge the O-ring in place into its groove while continuing to rotate the bezel clockwise until the two assemblies are fully secured. Failing to add this additional force will not properly seat the O-Ring and it will be forced outward.
- Check to ensure that no part of the O-ring is protruding. If it is, loosen the bezel and re-align the O-ring and re-tighten.
- Tighten the head as with as much force as you can with your hands.
- With the new lamp assembly/electronics platform there is NO NEED therefore no means to adjust lamp alignment.

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