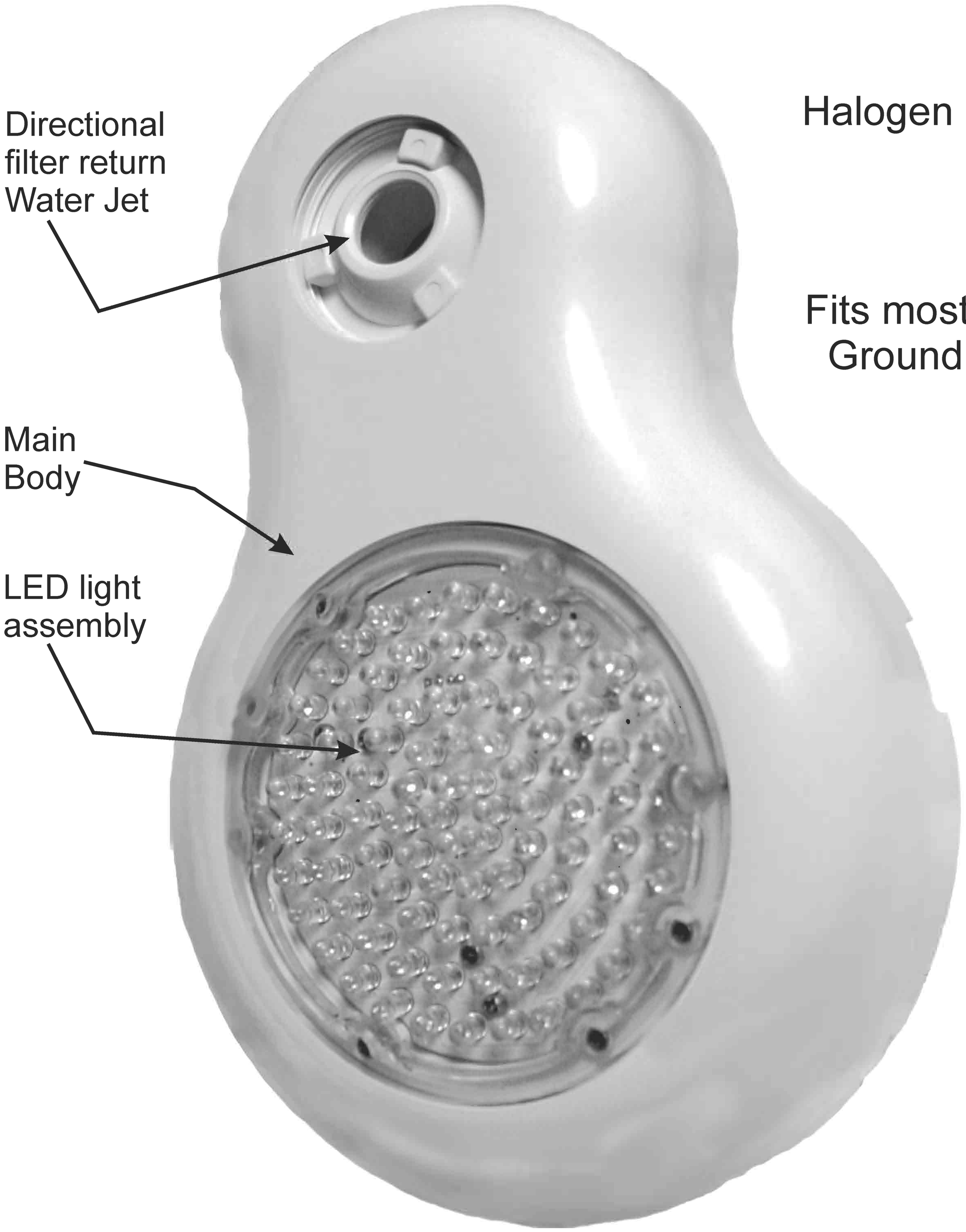
Aurora Pool Light Manual - LED and Halogen

with digital illumination color change ability



LED Digital Technology

Varying light colors

Low voltage, energy efficient, expected lamp life is 100,000 hr.

Easy installation with no special tools required.

Triton Technologies

tritontech@rogers.com

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Table of Content

Front cover photo of pool light ..... Page 1
Triton Technology contact information ..... Page 1
Warnings and precautions ..... Page 2
1 Hazardous Voltage
2 Risk of electrical shock
3 ground Fault precautions
Breakage Hazards .....Page 2
Warning on pool location ..... Page 3
Aurora light technical data ..... Page 3
Design Features ..... Page 3
How to change color on pool light ..... Page 3
Color range
Installing in a new pool ..... Page 4
Retrofitting to an existing pool ..... Page 4
Connecting light to a power source ..... Page 5
Mounting the transformer ..... Page 5
Testing pool for leaks ..... Page 5
Testing the light switch ..... Page 6
Attaching the plumbing to light ..... Page 6
Winterizing the Aurora Light ..... Page 6
Technician's parts list ..... Page 7
Halogen Bulb replacement ..... Page 8

Warning - Hazardous voltage.
Incorrectly installed or tested equipment may fail, causing severe injury or property damage. Read and follow instructions in the owner guide when installing and operating equipment. Mounting of the transformer included with this light is required - see page 5.

Warning - Risk of electrical shock.
Before removing or working on fixture at the pool wall,

ALWAYS TURN THE POWER OFF

by disconnecting the transformer power cord's 3-prong plug from its electrical outlet or shutting off the circuit breaker. Install this light in accordance with Article 680 of the National Electric Code (NEC), in the United States, or Section 68 of the Canadian Electric Code (CEC), as applicable and all local code requirements.

Connect only to a grounding type circuit protected by a ground fault circuit interrupter (GFCI). Contact a licensed electrician if in doubt about whether or not the receptacle or circuit is protected by a GFCI. A GFCI may be purchased at your local electrical supply house.
Do not use an extension cord.

If any part of the cord becomes damaged, return the entire transformer assembly for repair or replacement.

Warning - Breakage hazard.
Do not push off from the poolside against the light.

Warning - Halogen Bulb over heating
Submerge light in water before turning on to prevent heat damage to the Casing. The Bulb gives off high heat and will shatter if submerge when hot. **Do not turn Halogen light on for more than a few test seconds above water then allow to coll before submerging**.

Pool Location
Locate your pool so the walls are a minimum of **10 feet from all electrical** receptacles and are least 20 feet from all receptacles not protected by a GFCI. Do not locate your pool under any electrical wiring that is less than 18 feet vertically above the pool wall and at least 10 feet outside the pool walls.

The pool must never be located under any lighting fixture or within five (5) feet measured horizontally from any fixture mounted less than five (5) feet vertically above pool water level.

The Aurora LED Light
Input: 120 volts / 60HZ
Lamp Type: LEDs / 12 volts

Design Features
The Aurora LED varying color mode Pool Light is completely self-contained with built in filter return and installs in approx 10 minutes in new or existing **Above Ground Pools** without tools or add on parts. It is low voltage and extremely energy efficient requiring only 10 watts to drive the 72 Ultra Bright LEDs.

Before installing this light, **read all warning instructions and notices**. Failure to follow the safety warnings could result in severe injury, death or property damage.

How to operate the color feature on your LED Pool Light
Changing Illumination Colors is quite easy and is controlled by the on and off switch, on the transformer. A flip of the switch will move through the Light's range of 5 Color Modes.

Simply turn the light on and off - wait one second between the on and off cycle - and the light moves to the next color cycle.

Brilliant colors through RGB technology

1 White only
2 Color Mixing - Experience the full LED color spectrum.
3 Color lock - Lock onto the color of your choice.
4 Blue - Green - Popular relaxing shade of blue-green.
5 Party Mode - Strobe light effect of the full color range

Package should included
Pool light with silicone gasket, lock nut on the built in water return pipe, elbow, transformer box with 25 foot low voltage cord, a 6 foot cord to power outlet and this manual.

1- New installation

Remove threaded plastic nut from back of light **leaving silicone gasket on return pipe,** hold power cable up flush with plastic return pipe and slide the threaded nut pass the cable and pull all 25 feet of cable through nut.

The Lock Nut comes completely off the power line - **see fig. 2**.

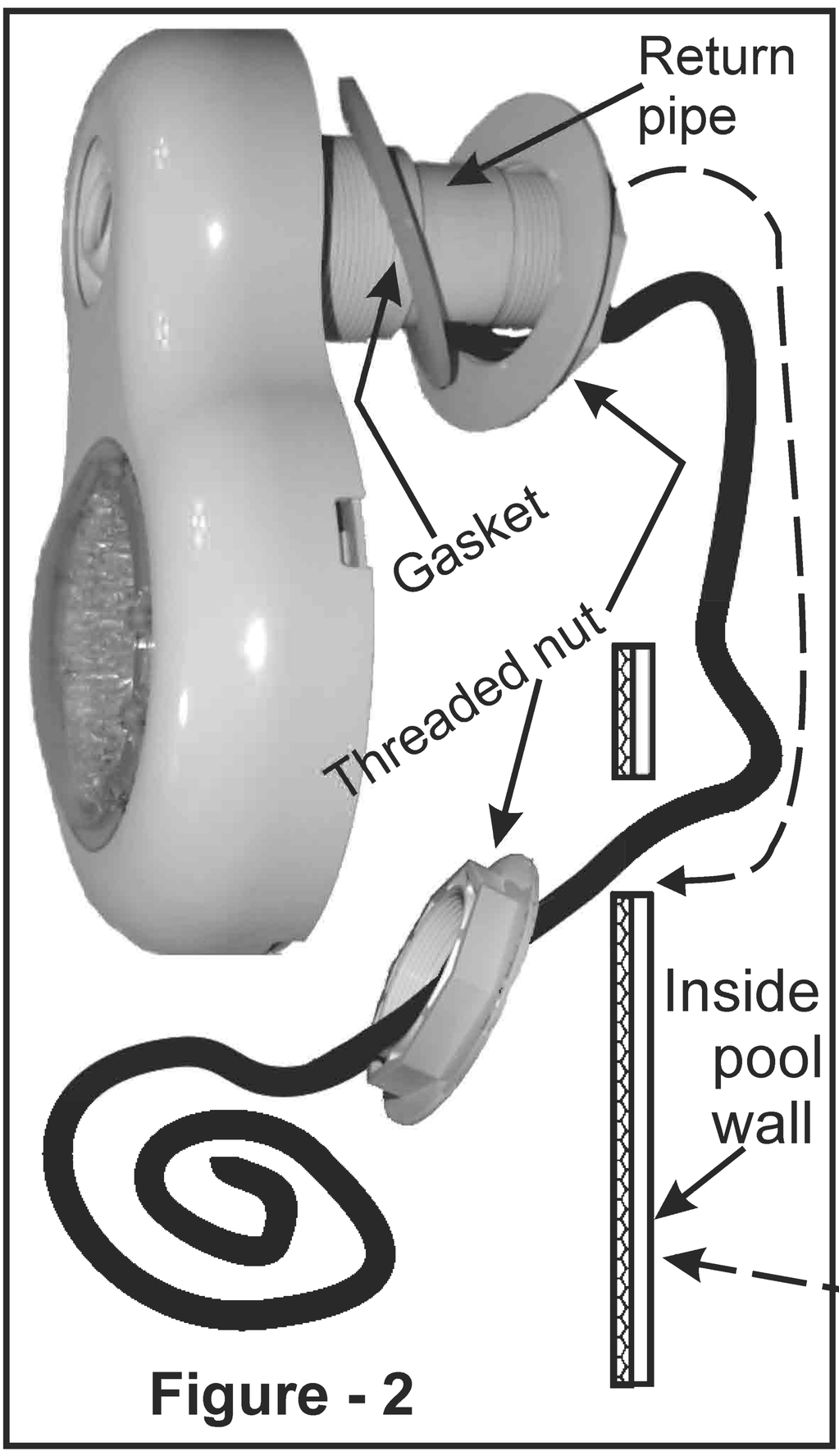


Figure - 2

2) Feed power cable through return hole from inside the pool to the outside wall pulling through all 25 feet of cable; then insert the light's return pipe through the wall as in **fig. 3**.

The silicone gasket is sandwiched between the inside pool liner and the Aurora Light's body.

Pool inside liner wall

3) Feed power cable through flat side of nut when reaching return pipe hold cable flush with pipe & slide nut pass the cable and thread onto return pipe. Be sure light inside pool is straight and hangs below return fitting - **see fig - 3.**
Tighten nut hand snug just enough to keep the pool from leaking.

Caution

Do Not over tighten nut.

Over tightening reduces the long term efficiency of the gasket and can strip threaded parts.

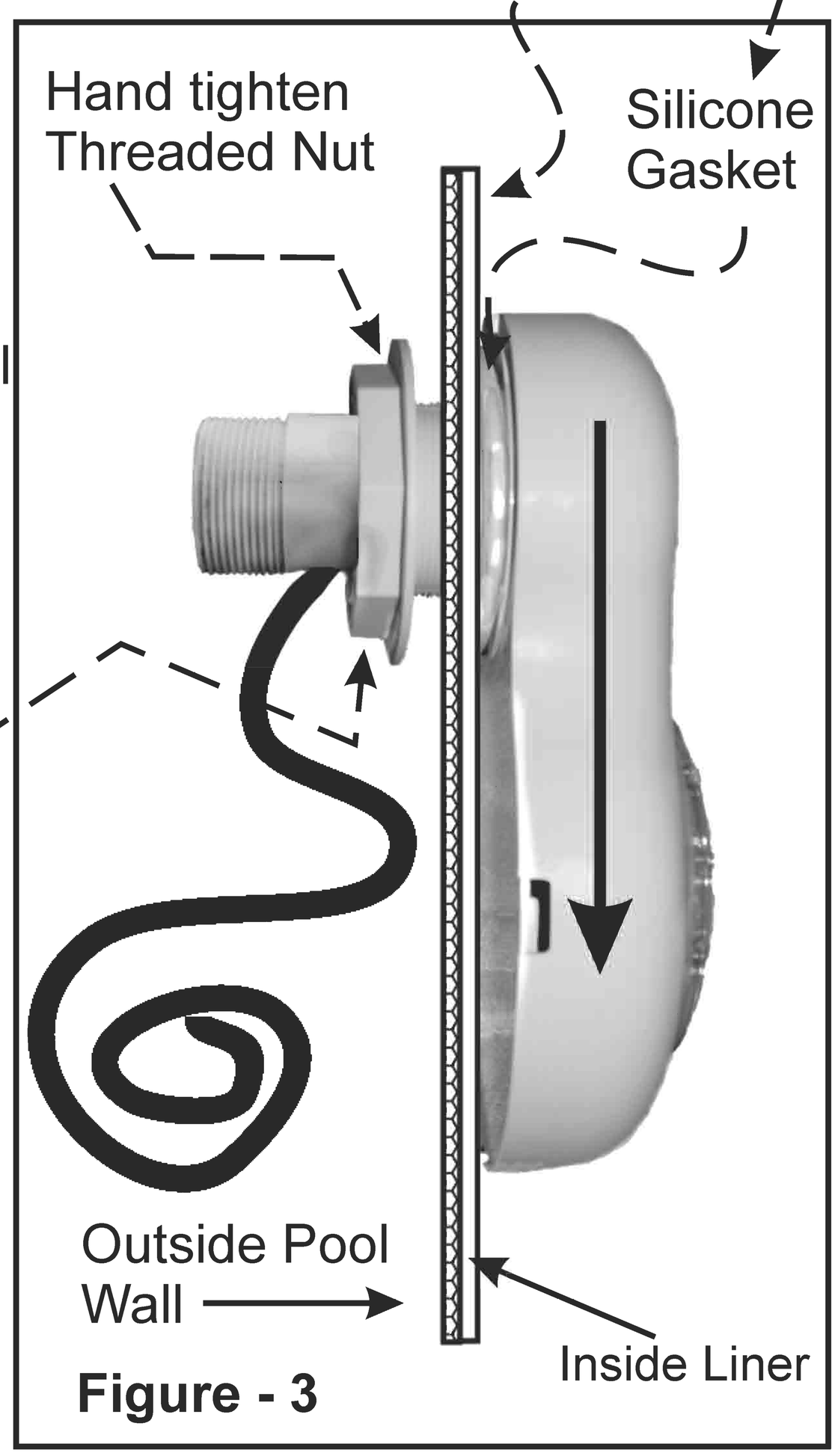


Figure - 3

Retrofit on existing pool

Lower water level just ½ inch below hole of return fitting, remove return fitting from pool wall and follow steps 1 through 3 of new Pool Installation.

4 - Connecting Pool light to power source

Attach Light Power Cable to Transformer Cable by Lining up the Coupling Plugs and then push together. Then thread on the plastic nut firmly by hand to hold them together.

Inspect O'Ring - brush off any sand, grass or dirt. Do not lubricate.

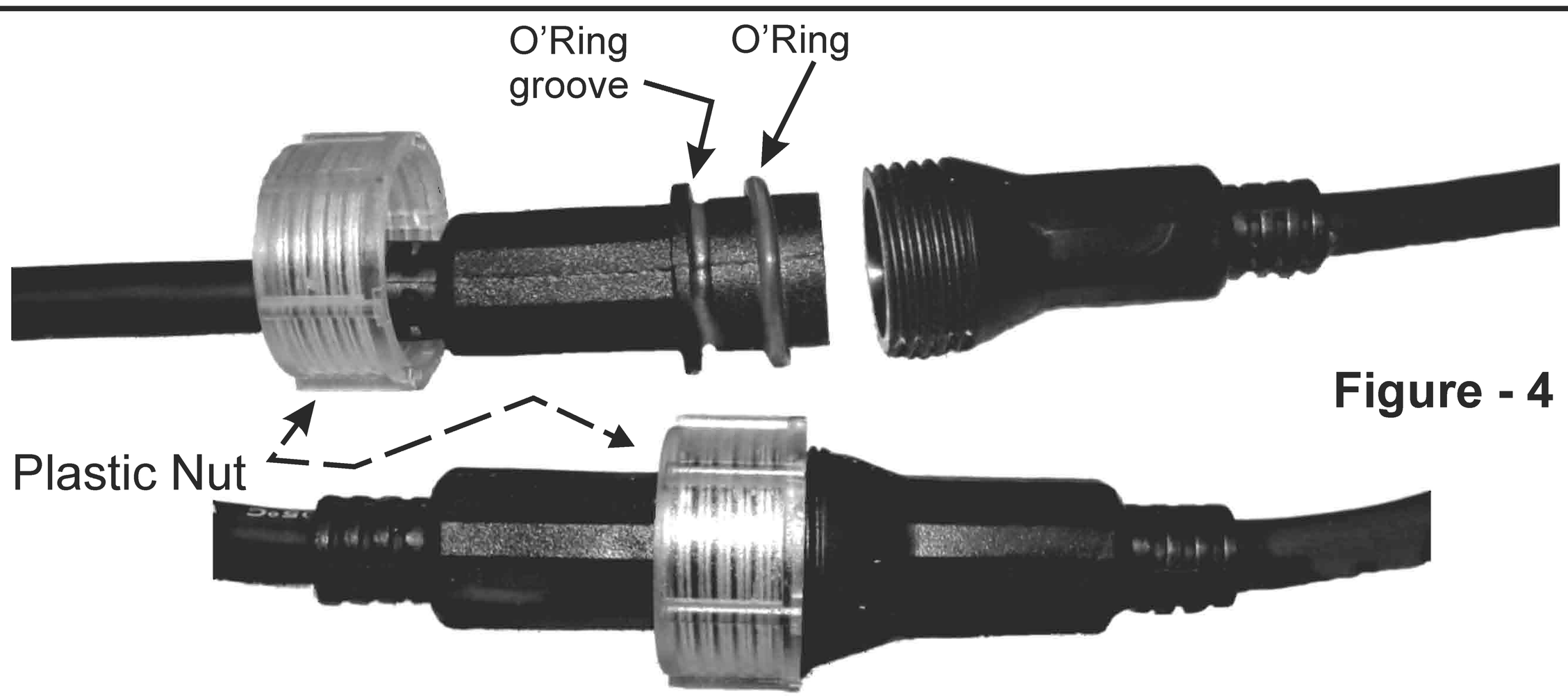


Figure - 4

The connection parts are Male and Female with a key way and will only fit together one way.

5 - Mounting the transformer

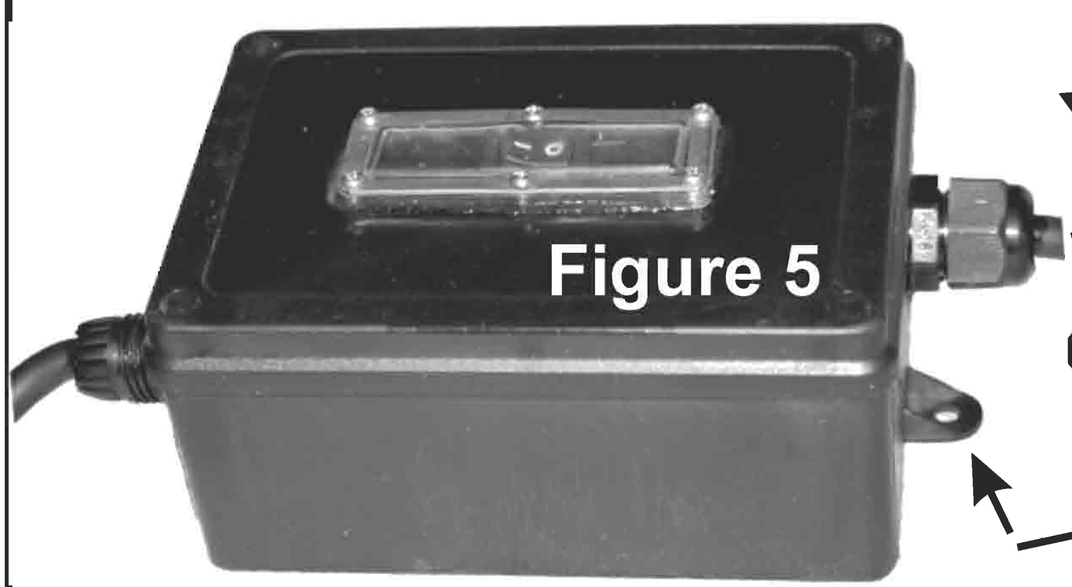
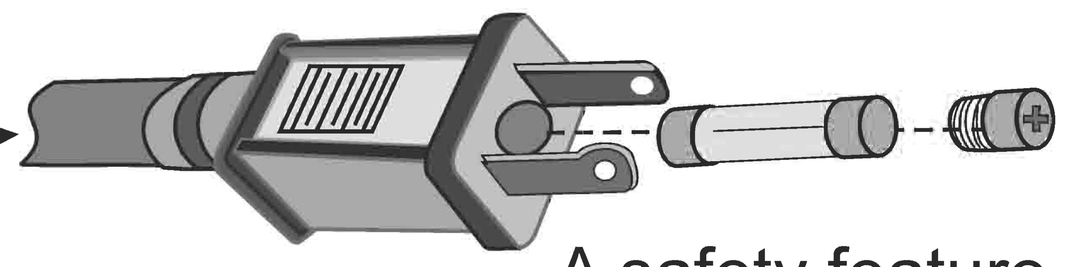


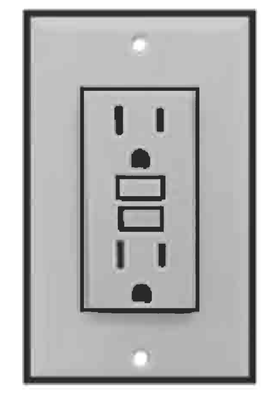
Figure 5



A safety feature is the fused plug

Screws provided
Mounting eyelet on each side.

Two mounting screws are provided with transformer. Snug these to a firm hold and avoid over tightening.



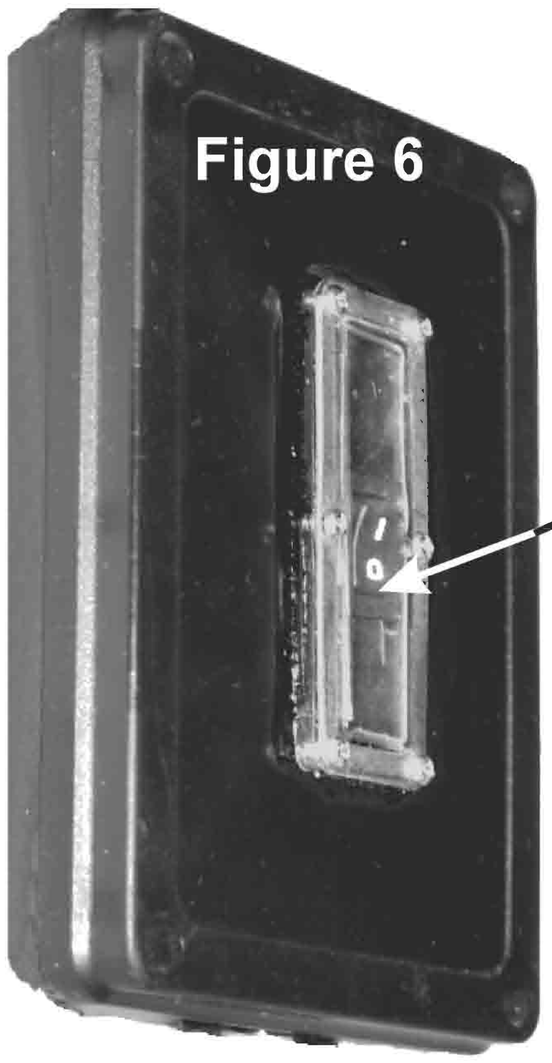
Mount the transformer a minimum of 10 feet from the pool wall, near a 120 volt 3-prong **GFCI protected outlet.**

Warning. **Do Not** use: a 2-prong outlet, extension cord.
Proper grounding of system is important for safety, use GFCI

To Replace the Plug fuse - Use a 5 amp fuse only

Pull on the body of the plug to remove from outlet (do not pull on the cord).
Unscrew the fuse access cover located between the prongs
Tap the side of the plug to shake out the old fuse
Replace the fuse and gently screw down the access cover
Using a fuse higher than 5 amp may damage the product or cause a fire.

6 Fill pool to proper level and check for leaks.



8 - Testing Light

If light does not work check to make sure you have power at outlet.

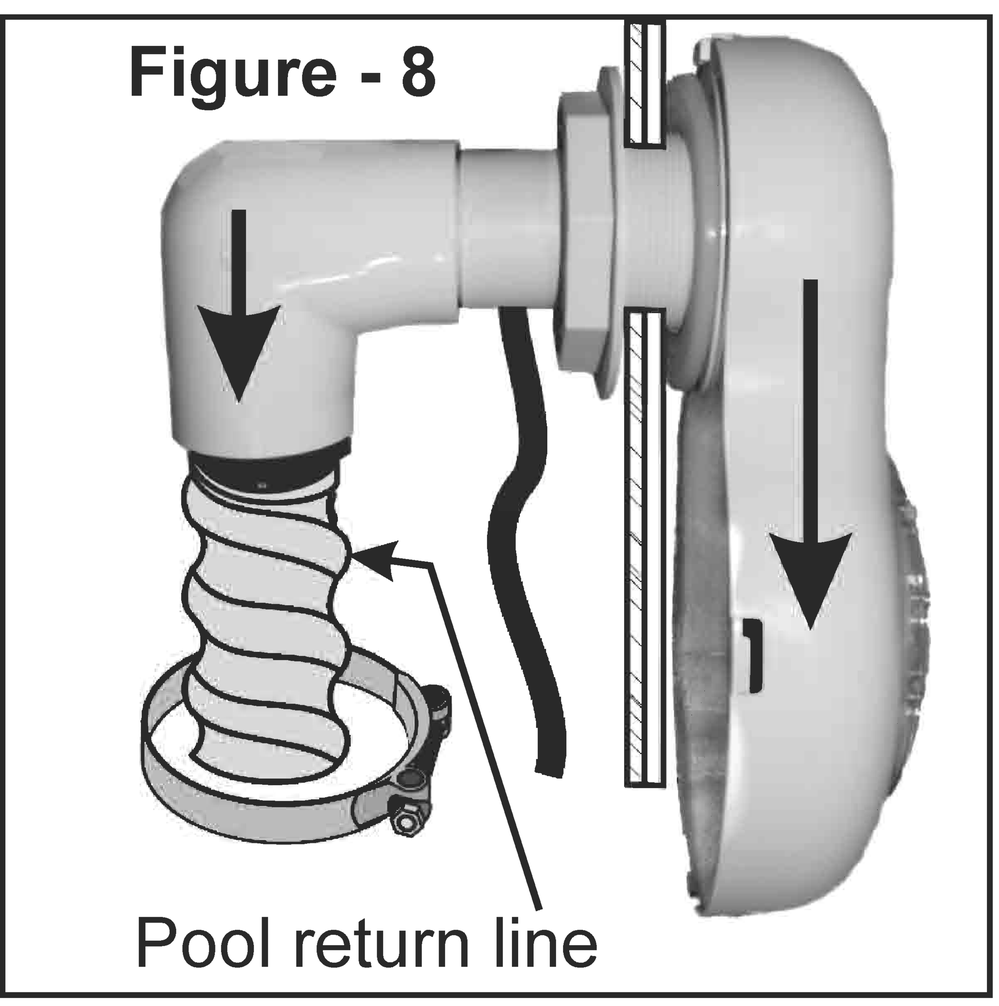
Turn on light from switch (I - O)

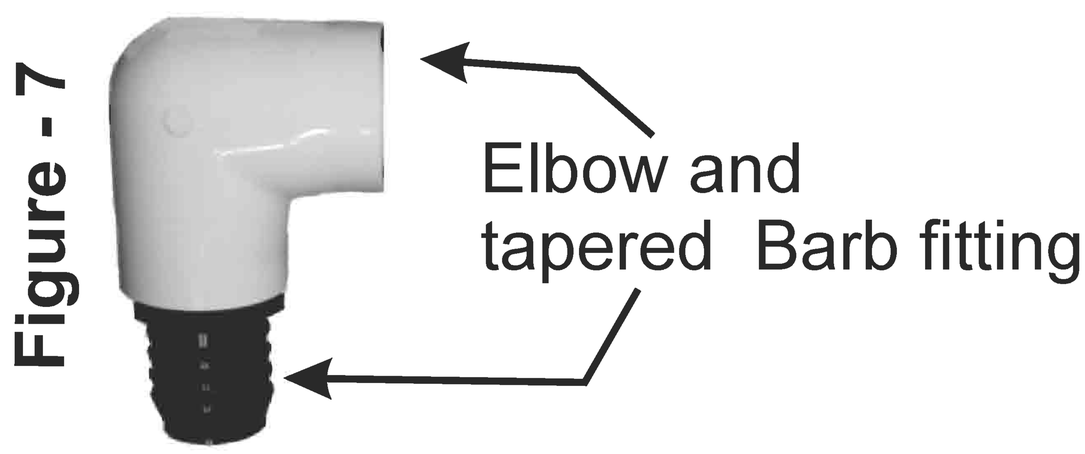
If for any reason the LEDs in the light do not work do not take light apart. Use a **trained service technician** to replace the LED bulb.

Light is warranted for one year from purchased date. Please fill out and send in warranty card.

9 - Attach plumbing to light

Thread the existing barbed adapter (supplied with pool) into the light's return elbow (Fig-7).





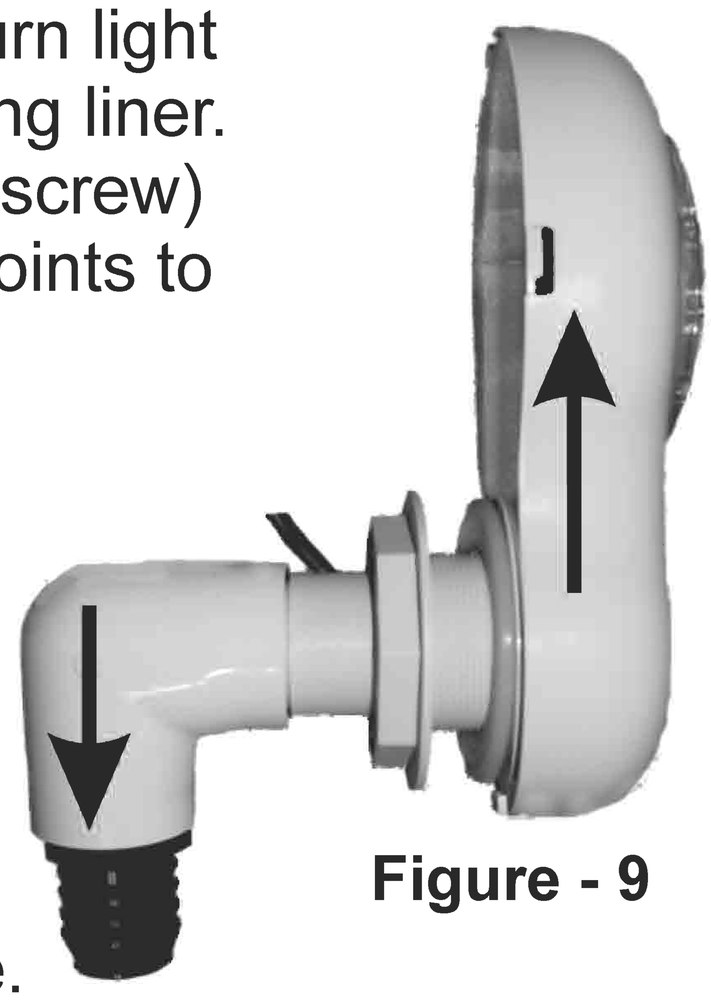
Wrap Teflon tape approximately four times around pipe threads in the same direction as the elbow tightens and then thread on elbow turning by hand till firm and elbow is facing down as in fig - 8. Next attach pipe adapter to elbow and pool plumbing to adapter with stainless steel clamp.

10 - Winterizing Aurora Light

When lowering water level below return disconnect plumbing, loosen threaded nut on back of light enough so you can turn light vertically upwards out of the water without damaging liner. Tighten nut to hold light in that position. Rotate (unscrew) elbow on back of light - half a turn - so open end points to ground, as in Fig 9.

If not lowering water level, leave light as it is, remove eyeball ring & eyeball and install winterizing plug in return fitting.
Then disconnect the plumbing.

Disconnect transformer cable from light cable. Unplug transformer and store inside. Roll up light cable, wrap in a plastic bag and store in safe place.



The LED light assembly can be replaced with water in the pool.

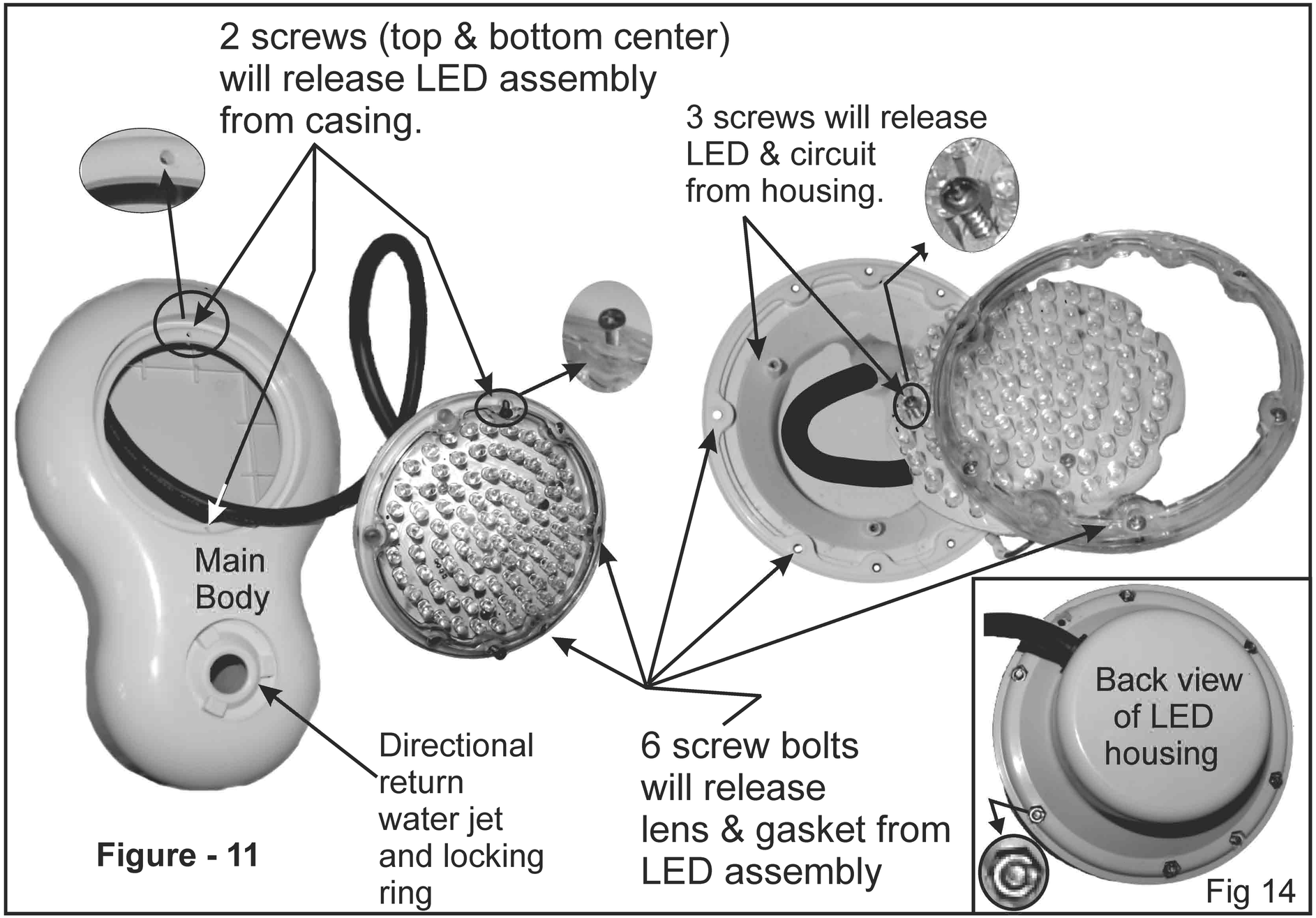


Figure - 11

Light replacement must be done by a qualified technician.

Contact your local dealer for a service person and parts. Do not drain pool as light can be replaced in the water.

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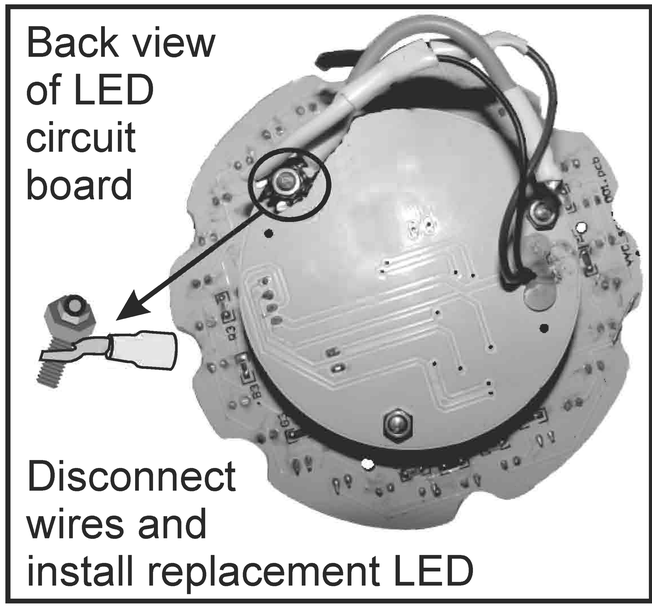
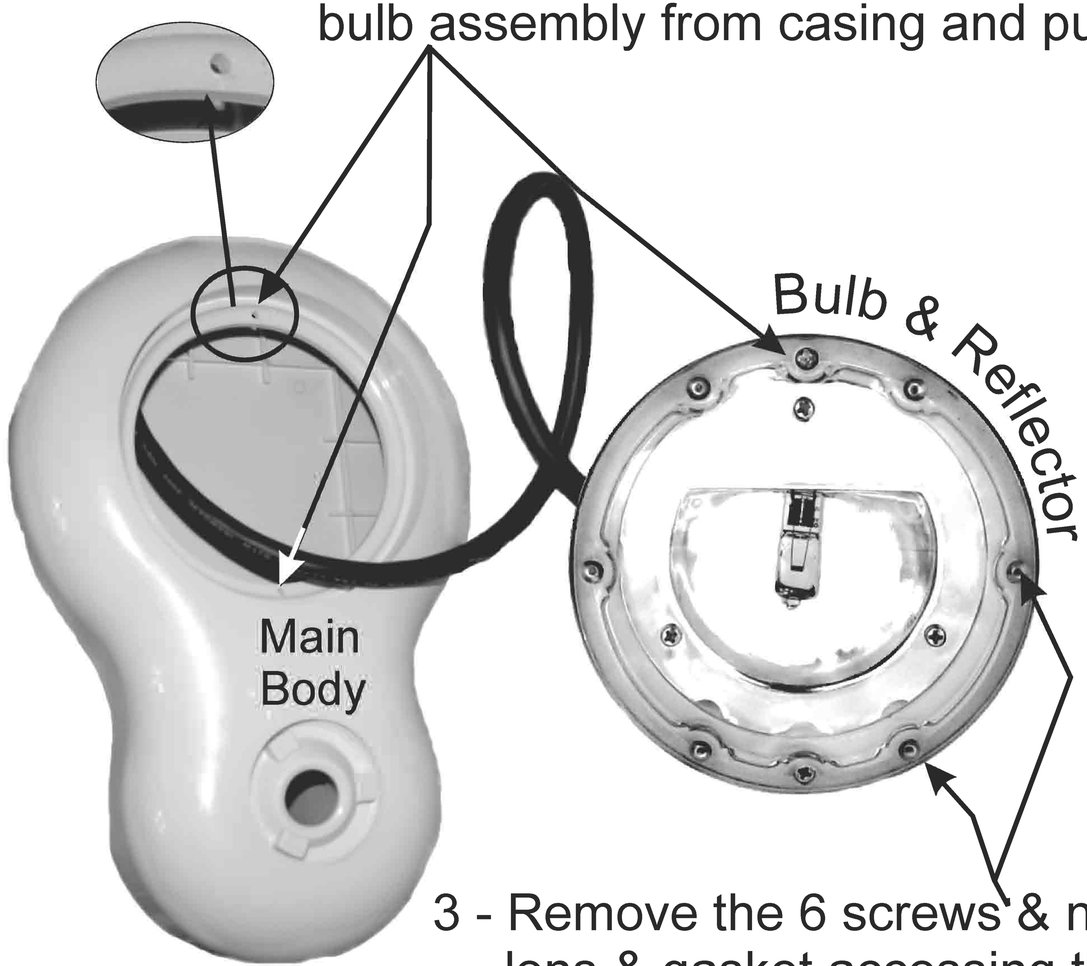


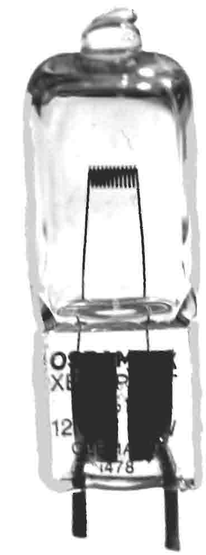
Figure 12

Before calling the technician check the trip fuses on the breaker panel, the GFCI receptacle and the power cord. See fig. 5, page 5.

The Halogen bulb can be replaced with water in the pool.

1- Disconnect power cord.
2- Remove 2 screws (top & bottom center) to release the Halogen bulb assembly from casing and pull light above water line.





3 - Remove the 6 screws & nuts to release the lens & gasket accessing the halogen bulb. Remove old bulb and replace with a new one.

Figure - 15

Before replacing a bulb - check the trip fuses on the breaker panel, the GFCI receptacle and the power cord. See fig. 5, page 5.

Note: Replace gasket when replacing bulb. See dealer for bulb and gasket.

Halogen Bulb Replacement

4- Replace lens and silicone gasket with the **6 screws & nuts.** Make sure no nuts drop from the back of the housing (see fig. 14).

Gasket must be clean and set flush on the housing unit. Tighten each screws a little at a time in a diagonal pattern to spread even pressure on the gasket.

Tighten firmly, but do not over tighten lens. It the gasket bulges outward from between the lens and housing reduce screw pressure.

Put the light assembly into the main body and replace the 2 center holding screws. Avoid over tightening or stripping threads.

Reconnect the power source to test light.

Caution: Hold bulb in plastic sleeve when replacing. Do not touch the bulb glass with fingers.