

⚠ WARNING

Be sure power is OFF before installing or removing lamp. Allow lamp to cool before replacing.
Do Not touch lamp with bare hand, it may severely reduce its life.

5 If only replace a lamp, follow step 1 and 2 above, then place the light face down on the deck on a flat soft clean surface. Take care not to scratch the lens.

6 Loosen (do not remover) the screws on the back of the lights. To remove the lens and lens gasket, gently pull on the tabs located around the perimeter of the lens gasket.

7 Remove the old lamp and install the new one. Take care not to touch the bulb with bare hands.

⚠ NOTE

Select proper lamp for 12 volt.

⚠ WARNING

Always install a new lens gasket, whenever reassembling the light. Failure to do so may permit water to leak into the assembly which could cause. An electrical hazard resulting in death or serious injury to pool users, installer, or other due to electrical shock, or breakage of the lamp or lens, which likewise could result in serious injury to pool user, installers, or bystanders, or in damage to property.

8 GFCI should be checked at least once a month regularly to make sure a safe use of the light.

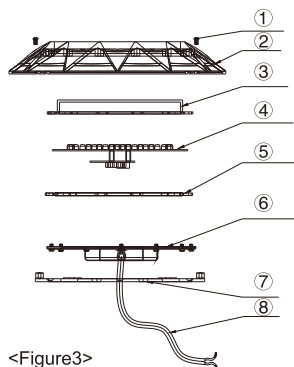
9 It's forbidden to step on the light, otherwise there might be some damage to the light face ring or lens, broken pieces might cause accident or injury to people.

⚠ ATTENTION

The safety isolating transformer must meet the standard of EN61558-2-6.

III. Replacement Parts

The following steps should be operated by pool owner or professionals. See Figure 3.



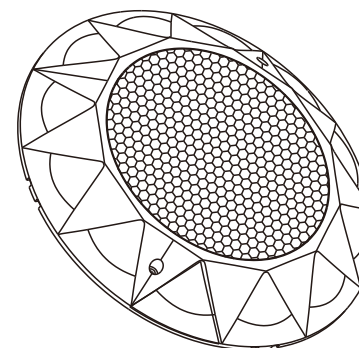
<Figure3>

Description	
①	Screws
②	Face ring
③	PC Lens
④	LED Lamp
⑤	Lens Gasket
⑥	Base Plate
⑦	Mounting Bracket
⑧	Cable

WL-PQ SERIES UNDERWATER LIGHTS

OPERATING INSTRUCTION

WL-PQ-LED012PB	WL-PQ-LED018JTB	WL-PQ-LED018JTC
WL-PQ-LED024PB	WL-PQ-LED036PB	WL-PQ-LED012PC
WL-PQ-LED024PC	WL-PQ-LED036PC	



ISO9001:2008

⚠ CAUTION

RISK OF ELECTRICAL SHOCK OR ELECTROCUTION

This underwater light must be installed by a licensed or certified electrician in accordance with the national Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to pool users, installer, or other due to electrical shocks, and may also cause damage to property. Read and follow the specific instructions below.

⚠ WARNING

Before installing this underwater light, read and follow all warning notices and instructions accompanying with this light. Otherwise it will result in severe injury, death, or property damage.

⚠ ATTENTION

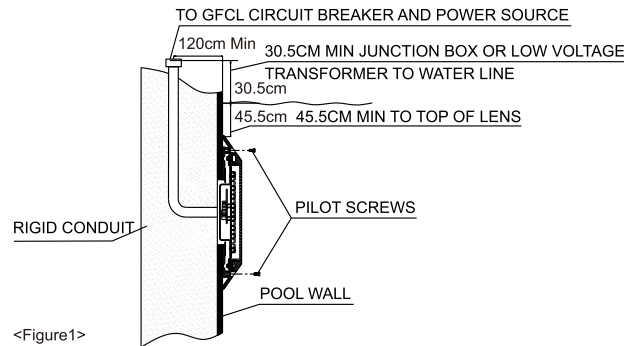
IMPORTANT NOTICE

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

(Read and Follow all the instructions)

I. Installation

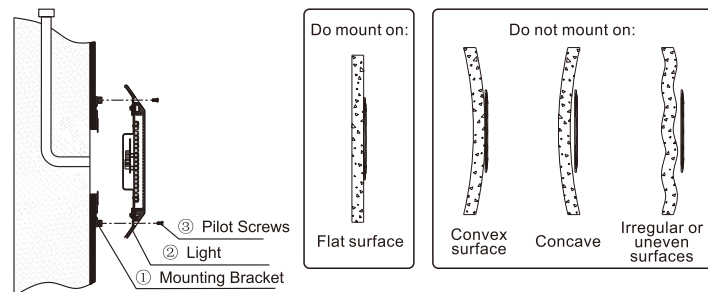
A. Preparatory steps which must be completed by the electrician before lights installed. See Figure 1.



<Figure1>

- 1 Ensure that the pool meets the requirements of the current National Electrical Code and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical code are listed below.
 - a) The lighting circuit must have a Ground Fault Circuit Interrupter (GFCI), and must have an appropriately rated circuit breaker, and its ground resistance should be no more than 0.1Ω , and the working voltage should be no more than 12V.
 - b) The Junction Box (or 12 Volt models, the low voltage transformer) must be located at least 30.5cm above the water level, 10 cm from the ground and at least 120cm from the edge of the pool. See Figure 1.
 - c) The light must be properly installed so that the top edge of the underwater light's lens is at least 45.5cm below the surface of the water in the pool. The light must match with joint shell.
- 2 To be certain that the pool's electrical system meets all applicable requirements, you should also consult the local building department.

B. The following are steps to perform after the electrical system requirements met. See Figure 2.



<Figure2>

- 1 Locate position on a vertical wall where light is to be installed. The top of the light face ring must be 45.5 CM below normal water level as required by National Electrical Code.
- 2 Connect Rigid Conduit to midst of mounting bracket.
- 3 If pool surface is to be plastered, you must allow proper concrete cutback for plaster thickness. Finish concrete surface must be flush with mounting spacer.

CAUTION

Finish area surrounding Mounting Spacer Must be flat and flush with the face of Mounting Spacer, this ensures a snug fit between light and wall.

- 4 After pool surface is finished, trim the conduit. Position mounting bracket over hole with the word "TOP" at the top, and secure with hex nuts. Tighten hex nuts evenly with equal torque.
- 5 Wrap a length of the cable up to a maximum of 1.5m long on the back of the light assembly. Wind a maximum of three wraps of cable so the last wrap stops at the top of the light. This extra cable allows you to bring the light out of the pool to install a new lamp and for servicing.
- 6 Connect electrical wires at Junction box through conduit, be careful not to pull the 75mm-80mm of slack cord at the light through the conduit when connection the wires. All wiring should be connected to a Class A Ground Fault Circuit Interrupter (GFCI), in accordance with electrical codes.
- 7 Connect all wires to the corresponding circuit wires in the junction box and secure the junction box cover in place.

WARNING

Never operate this light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in breakage of the lamp or lens. This may result in serious injury to pool users, installer, or bystanders, or in damage to property.

- 8 Rotating locking system ensures light is secured to bracket.
- 9 Before operation the light for more than 10 seconds fill pool until the pool light is completely submerged in the water. To check for proper operation, turn on main switch or circuit breaker, as well as the switch which operates the light.
- 10 The flexible cable of this light can't be replaced, if the cable is damaged, the light shall be destroyed.

II. Replacing Light or a lamp in existing pools

Always disconnect power to the pool light before servicing the light. Failure to do so could result in electrical shock, which may cause serious damages to swimmers, installer or others.

CAUTION

- 1 Turn off main electrical switch or circuit breaker, as well as the switch which operates the light.
- 2 To remove light assembly, contrarotate the light assembly until it's separated with the joint shell, place assembly on deck. Take care not to scratch the lens. Remove the screws on the underpan with a crosshead screwdriver.
- 3 Remove junction box cover, disconnect the light fixture wires, and pull the cable through the conduit.
- 4 Feed the new light fixture cable through the conduit to the junction box. Then install the replaced lights as the steps of new light's installation.