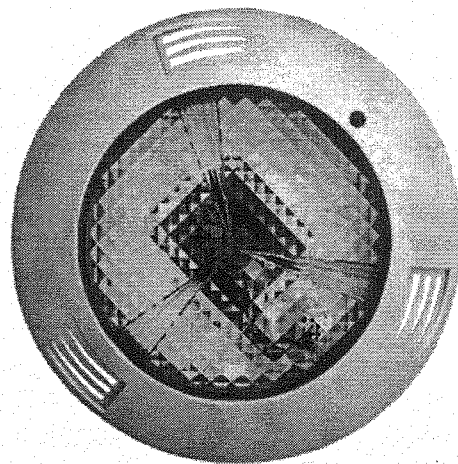


I . Installation Attention Items

II . Attention Items of Replacing and Maintaining a Lamp



Underwater Light Operating Instructions

Model: WL-BPS075 WL-BPS100
WL-PS-LED072 WL-PS-LED084
WL-PS-LED252

- Important safety manual**
- Follow all instructions**
- Save the manual**

I . Installation Attention Items

**A.The electrician must complete preparatory steps before light fixture is installed.
See Figure 1.**

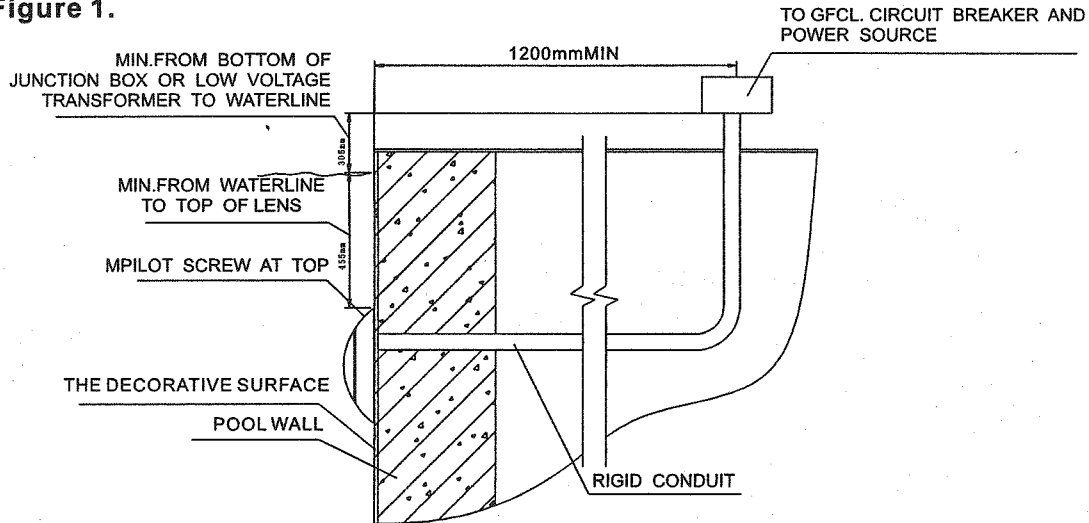


Figure 1

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 which the pool's electrical system must meet are as follows.

- 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 or at least 10 cm from the ground and at least 120cm from the edge of the pool. See Figure1.
- c. The lamp holder 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.

2. To be certain that pool's electrical system can be verified with a Pool and Spa Electrical Qualification Test Kit, the electrician should also consult the local building department.

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

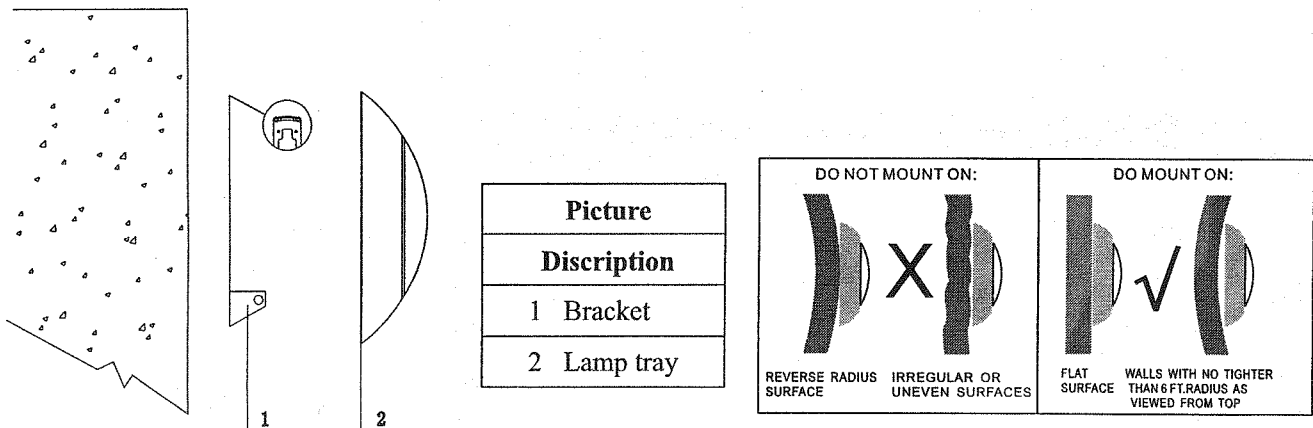


Figure 2

1. Choose the light's location on the vertical wall, and the edge of the lampshade should be below 45.5cm from the normal water level. The center of the jack should be located at the top of the lampshade.
2. If there's no rendering face on the wall, the width of rendering face should be left.
3. The standby wire's length twisted on the light should be at least 120cm, which is easier to take out the light from swimming pool to replace the light or maintenance.
4. Draw out the remanent wire from the lead pipe at the back of the niche.
5. Locate the lamp foot's lamp clamp at the bottom of the lamp holder, slightly press it in order to make the screw at the top, tweak the screw.
6. Connect wire tie-in in the junction box, and notice not to draw out the obligate wire from the lead pipe when connecting wires. According to Electrical Code (Item 1A1a), all the wires should be connected with GFCI (Ground Fault Circuit Interrupter) of Grade A.
7. Connect the corresponding wires in the Junction Box to ensure safety.

DANGER

The light can only use stainless steel screws of high quality, otherwise rust will occur, and we advise to only use the stainless screws accompanying the light.

a). Put the lamp tray onto the peg assembly, tighten the screws.

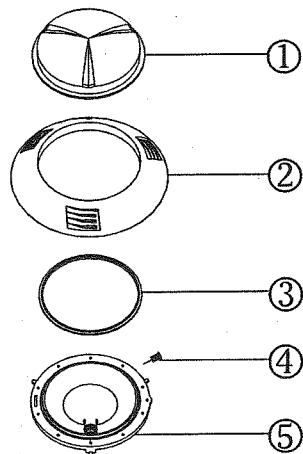
Operate the light when it's totally submerged in water. without total submersion, the light assembly will get extremely hot, which may result in serious injury to pool users, installer, bystanders or damage to property.

b). Fill the pool with water until the light is completely submerged in water, connect main power, main switch and the switch for the underwater light, to check for proper operation.

II. Attention Items of Replacing and Maintaining a Lamp

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.

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



Pictures
Descriptions
1、 Lens
2、 Lamp tray
3、 Seal
4、 Screw
5、 Base

Figure 3

1. When repairing the light, disconnect the main power switch or circuit switch, and underwater light's switch.
2. Loosen the screw, which is located at the top of the light, then make the light's upside lean and carry the niche body from the light's bottom, loosen the standby wires from the back of the light.
3. Put the light face upward, be careful not to scull the lampshade.
4. Use a screwdriver to disassemble the back's screws.
5. Turn over the light, hold the light's base plate, take out the glass cover, plastic ring and seal.
6. Replace the lamp:
 - a. Locate the screw hole at the top, make the lamp at the horizontal place, locate the underwater light.
 - b. Hold the lamp and press it on the left lampholder.

WARNING

When installing and replacing a lamp, ensure the power is off. Replace a lamp after old lamp is cool. This kind of lamp holder is equipped with halogen quartz lamp, don't touch the lamp bare fisted, which may reduce its life span. The replaced lamp has plastic to protect it, which avoids fingerprint left on the lamp.

7. When installing a new lamp, carry on the II steps in counter direction.

NOTICE

Choose a correct 12V lamp

8. When reinstall underwater light, don't use the old seal, use new seals.

WARNING

1. Every time disassemble the underwater light, install a new lampshade seal. Failure to do so will cause water leakage, which will result in:
 - a). Electrical shock, which may cause serious damages to swimmers, installer or others.
 - b). The burst of underwater light of lampshade, which may also cause serious damages to swimmers, installer or others.
2. When using, the creepage-protect-switch must be tested at least once per month, which can ensure the switch work normally.
3. When using, prohibit anybody from stepping on the light, for fear that the distortion of the light makes the lens break up, which may cause accidental injury and loss.