


PT SERIES UNDERWATER

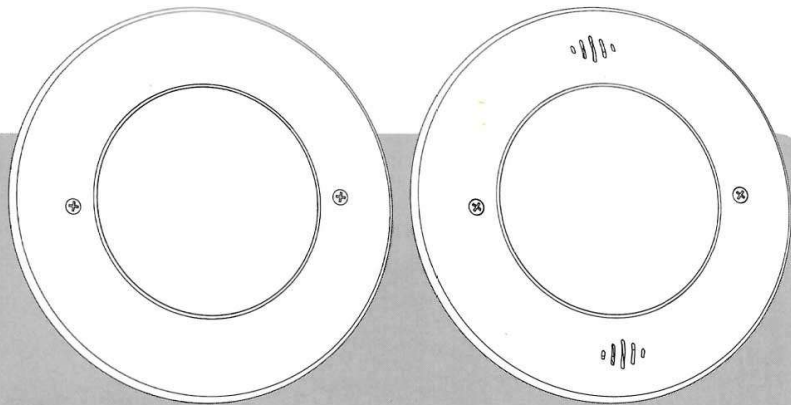
LIGHTS OPERATING INSTRUCTION



IP68 0.6m

ISO9001:2015 

PT-024JTC
PTS-024JTC
PT-024JTB2
PT-024JTB4
PT-024JTB6
PTS-024JTB2
PTS-024JTB4
PTS-024JTB6



Please Read The Manual Carefully Before Use.

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 others, due to electrical shocks, and may also cause damage to property.

⚠ WARNING

Before installing this underwater light, read and follow all warning notices and instructions accompanying with this light.

⚠ ATTENTION

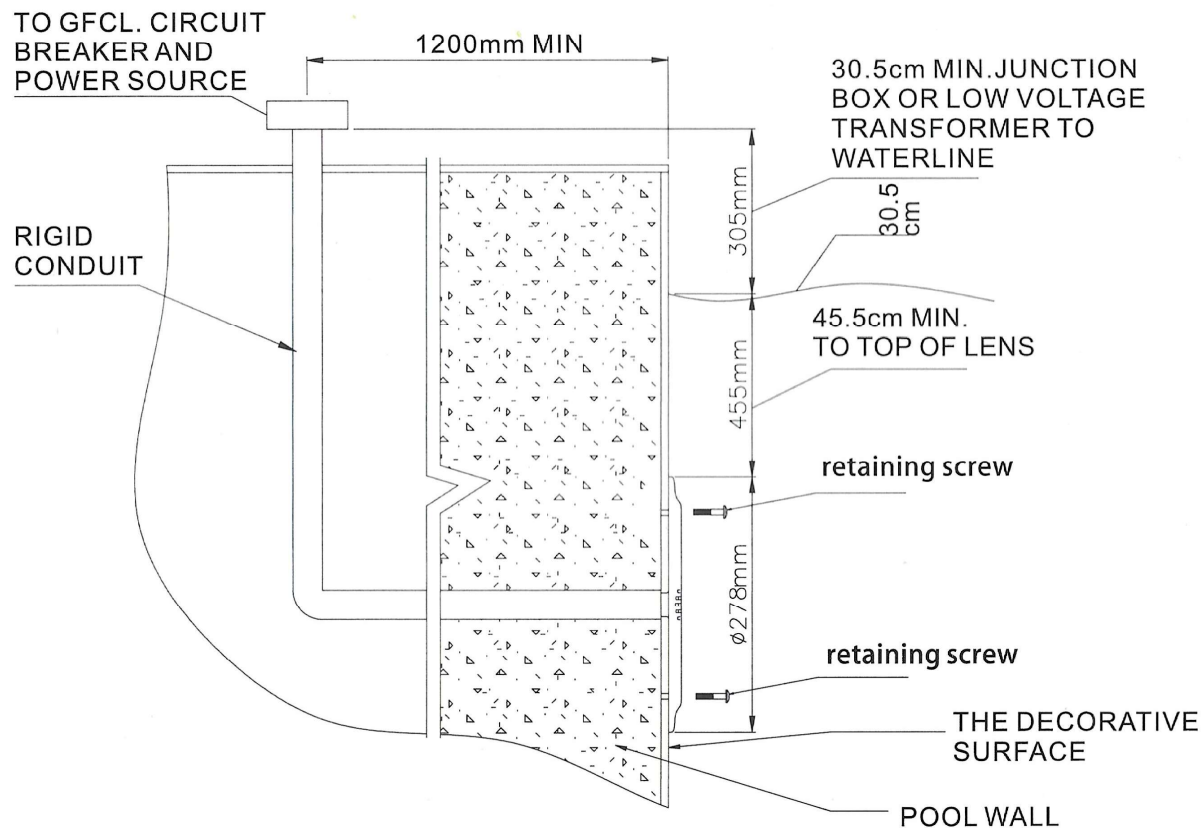
IMPORTANT NOTICE

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.

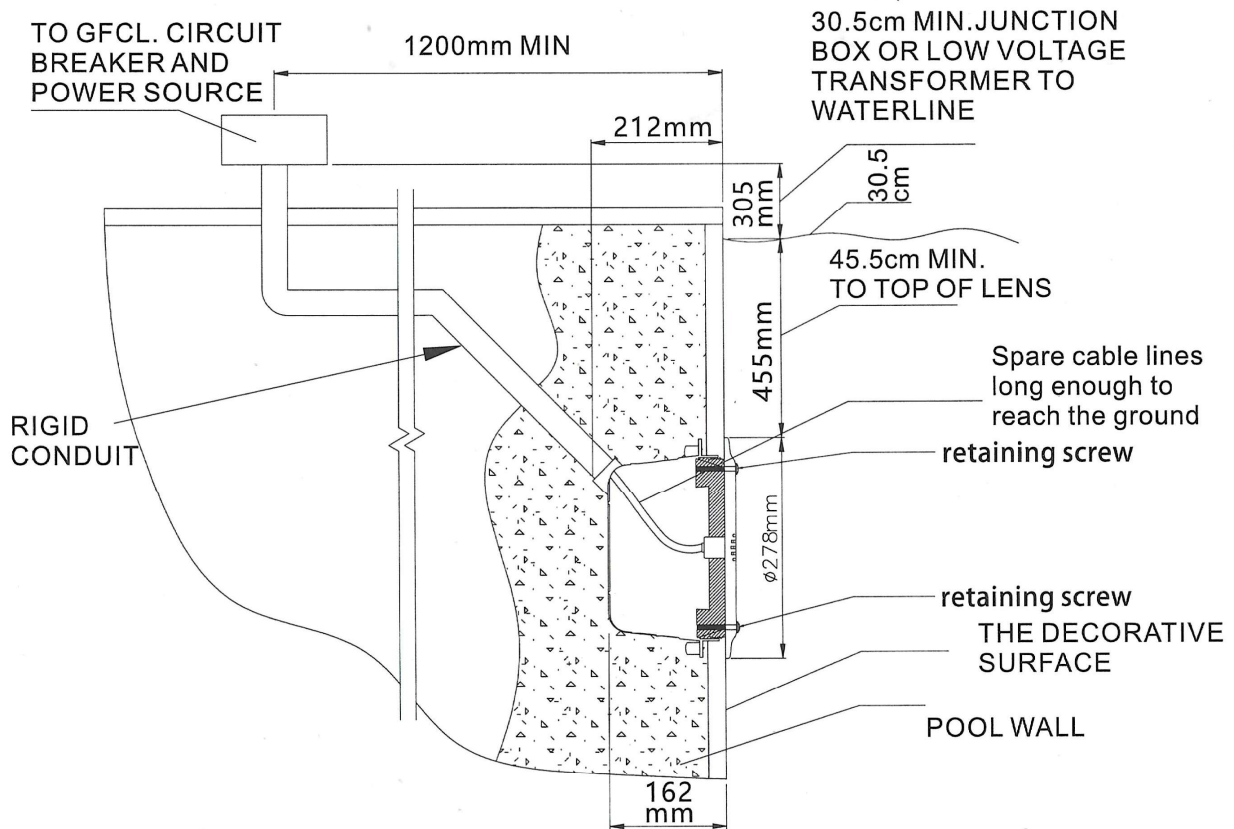
1 INSTALLING LIGHT FIXTURE DURING NEW POOL CONSTRUCTION

A. The electrician must complete preparatory steps before light fixture is installed.

See Figure 1 or Figure 2.



<Figure1>



<Figure2>

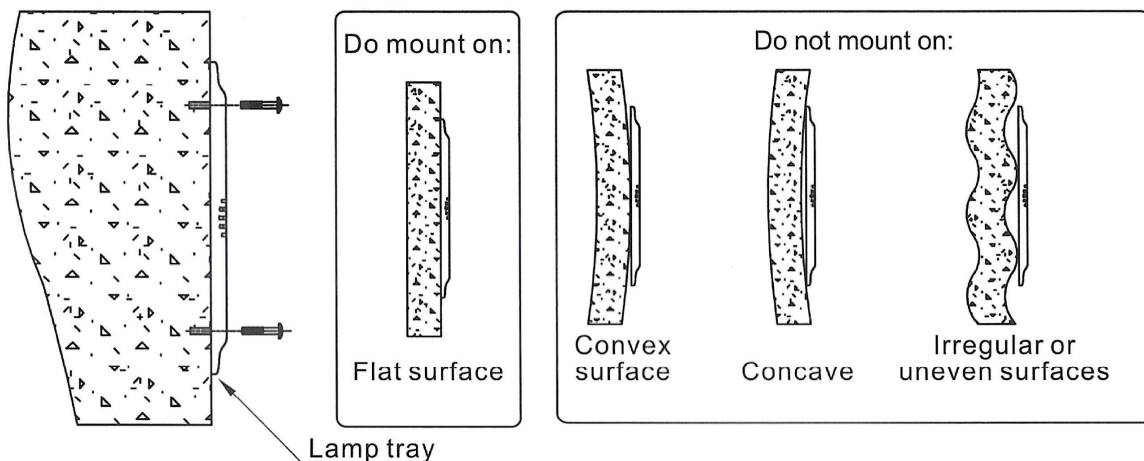
<1> Ensure that the pool meets the requirements of the current National Electrical Code and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of 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.
- b. The Junction Box (or 12 Volt models, the low voltage transformer) must be located at least 30.5cm above the water level and at least 120cm from the edge of the pool. See Figure 1 or Figure 2.
- c. The wet niche 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. See Figure 1 or Figure 2.

<2> To be certain that 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 3.



<Figure3>

⚠ 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.

⚠ WARNING

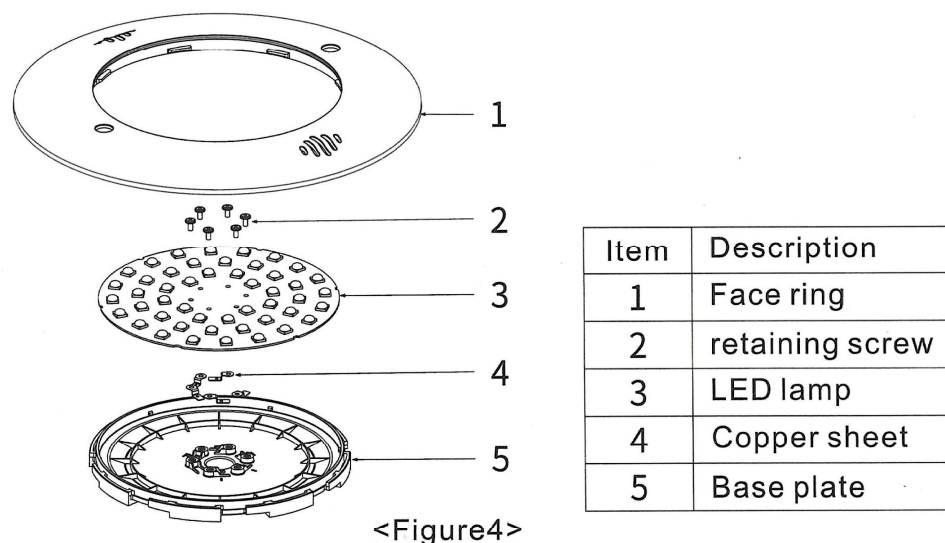
We advise only using the stainless screws accompanying the light, if you don't use the supplied screws, it may result in electrical shock, which may cause serious damage to swimmers, installer or others.

- <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. CEC680 stipulates that 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, twist at least 3 circles. When you take out the light from swimming pool to replace the light or maintenance, the wire should be long enough.
- <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. If it's correctly installed, the niche's cushion will abound the clearance between the wall and the lamp holder.
- <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 3 wires near the ground, and secure the Junction Box cover in place.

2 REPAIR POINTS FOR ATTENTION

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

The following steps should be operated by pool owner or professionals. See Figure 4.



WARNING

Before installing or servicing underwater lights, make sure the circuit switch is off; If the circuit is kept on, an electric shock can occur, resulting in serious injury to the swimmer, installer, or other person..

WARNING

Replacement of external cords or cords can only be done by the manufacturer, its agent or a similarly qualified person.

WARNING

POWER CONNECTION

Select the corresponding wiring mode according to the lamp

a: RGB lights connected controller : DC12V

Brown wire	+
Blue wire	-
Yellow&Green wire	S

b: RGB lights connected controller : AC 12V.

Brown wire	L
Blue wire	N

c: RGB lights connected controller : DC 12V..or AC 12V.

White wire	+
Black wire	—
Red wire	R
Green wire	G
Blue wire	B

d: Cool white and warm white lights connected controller : DC 12V or AC 12V.

Brown wire	+ \ L
Blue wire	- \ N

WARNING

Install a new seal each time you remove the underwater light, otherwise it will cause water leakage and may lead to:

- a. An electric shock occurs that results in serious injury to the swimmer, installer, or other person.
- b. causing the underwater light or lamp piece to break, the result of which is serious injury to the swimmer, installer or other person.
- c. In the process of use, the leakage switch must be inspected at least once A month to ensure that the leakage switch works normally.
- d. In the process of use, personnel should be strictly prohibited to step on the lamp body, so as to avoid the deformation of the lamp body, resulting in the crushing of the surface ring and accidental injury and loss.