Underwater Light Installation Manual

▶▶ Fiberglass Series ◀◀



1. To User

Thank you for choosing our products! In order to achieve satisfactory results, please read this manual carefully before installation to ensure the normal operation and service life of the product. At the same time, please keep this manual for reference when needed.

2. Safety Warning

1. Please read the instructions carefully before installation to ensure that you understand all installation steps and precautions. Non-professional technicians, please do not repair or modify this product without authorization.
2. During the installation, please keep the power off and wear insulation gloves to ensure safety.
3. The light is an IP68 waterproof light, which needs to be placed underwater to work, and can be immersed in an environment up to 5 meters deep.
4. It is recommended that the ambient temperature for the working of the light should be controlled between -20°C~35°C to ensure the normal service life of the light.
5. It is recommended to use it with the power supply provided by our company.
6. It is recommended to use an isolation transformer to accommodate the load power.
7. The circuit system of the underwater light is recommended to be equipped with GFCI (ground fault current circuit breaker) and have a suitable rated current circuit breaker.
8. It is recommended that the length of the wire connecting the swimming pool light and the transformer should not exceed 30m, otherwise it may affect the normal operation of the underwater light.
9. The underwater light should be installed on a horizontal wall, and it is forbidden to install on an irregular wall.
10. To install this underwater light, at least a 1.5m long spare wire for connection should be reserved for future replacement and maintenance.
11. In order to achieve synchronization, all underwater lights should be connected to the same switch correctly.
12. Corrosive or soluble chemicals will destroy the protection of the light housing.
13. After installation, it is necessary to test whether the light works normally to ensure the safety of use.
14. It is forbidden to turn on the underwater light without it being submerged in water (no more than 10 minutes), otherwise it may shorten its service life and even cause burning of the integrated components that make up the LED.
15. After the underwater light is installed in the swimming pool, the swimming pool should be filled with water as soon as possible, because the underwater light should not be exposed to the sun for a long time.
16. Do not look closely at the luminaire that is working, so as to avoid eye damage due to the light.

3. Installation Preparation

1. Please confirm the completeness of the light product, including light body, mounting bracket, accessory bag and manual, etc. Make sure that the light marking voltage is consistent with the input voltage to be connected.
2. Prepare installation tools, such as screwdrivers, electric drills, drill bits, hammers, insulating tape, wire cutters, and insulating gloves, etc.
3. Confirm the installation location and check whether the wall surface is flat and has no cracks to ensure that it can be installed securely.
4. Turn off the power switch, ensure that the power is disconnected during the installation process, and wear insulating gloves to ensure safety.

4. Suggested Installation Position

The fiberglass pool is used as an example, and concrete pool is the same as this.

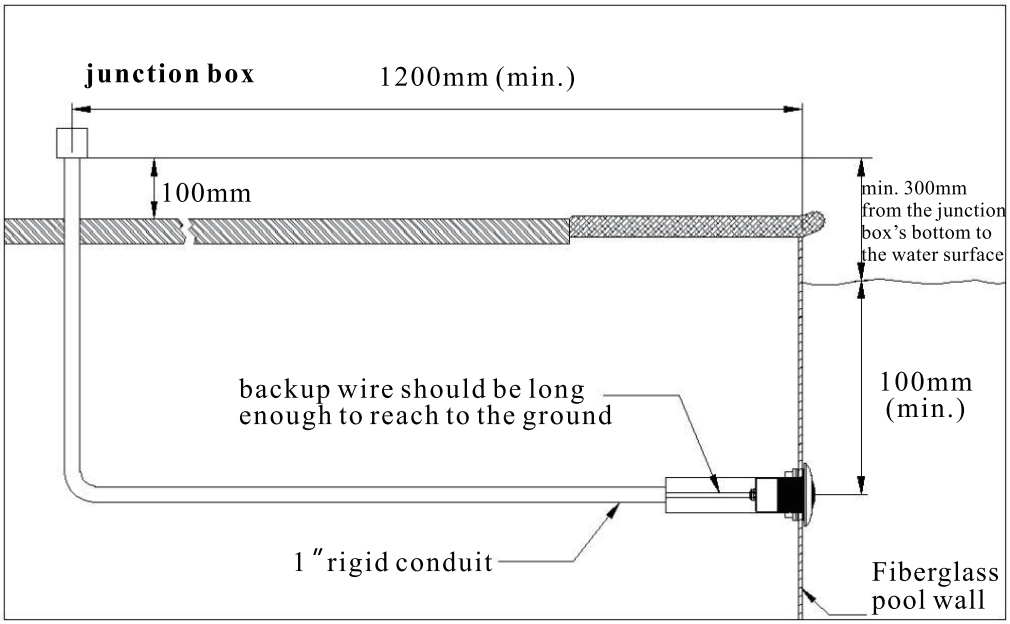


Figure 1

1. Installation and Parts List

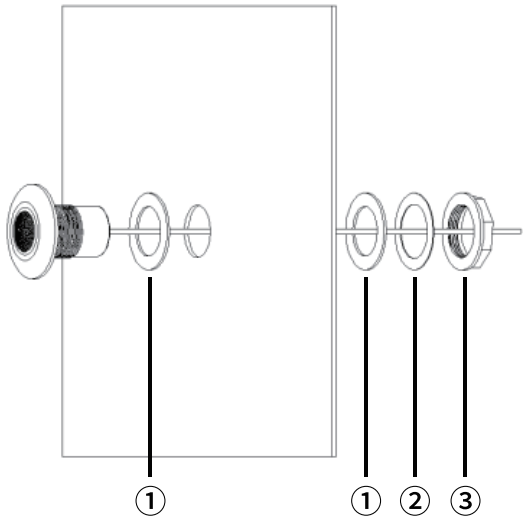


Figure 2

Parts List			
Item No.	**Parts Description**	**Quantity**	**Unit**
①	Waterproof Gasket	2	Piece
②	Transparent Waterproof Gasket	1	Piece
③	Plastic Nut	1	Piece

2. Installation Steps(Fiberglass pool)

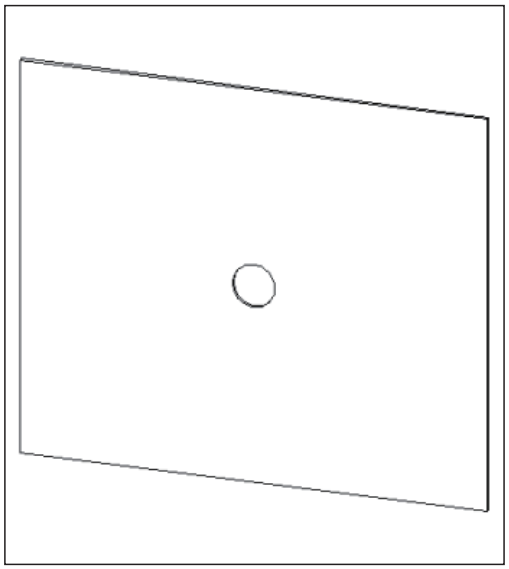
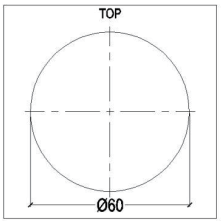
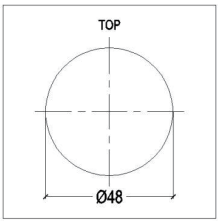


Figure 3



2″light
Pool Wall Opening
Dimension Drawing



1.5″light
Pool Wall Opening
Dimension Drawing

1. Drilling:

Mark the location of the mounting holes on the fiberglass pool wall and use a hole opener to open the holes at the markings (pay attention to comparing the fiberglass fitting and choose the right diameter of the hole opener to avoid too large or too small holes);

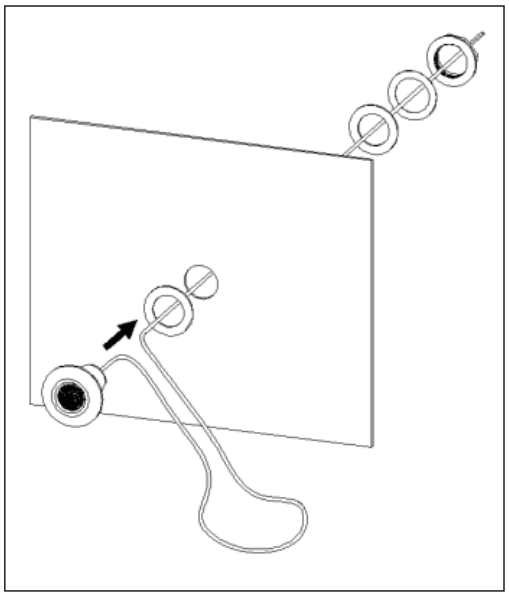


Figure 4

2. Connect the Power Cord:

Pass the wires from the light body through ① waterproof gasket, glass fiber pool wall hole, another waterproof gasket, ② transparent waterproof gasket, ③ plastic nut, threading conduit in order, and reserve spare wires, then connect the wires to the junction box (pay attention to the correct direction of the plastic nut);

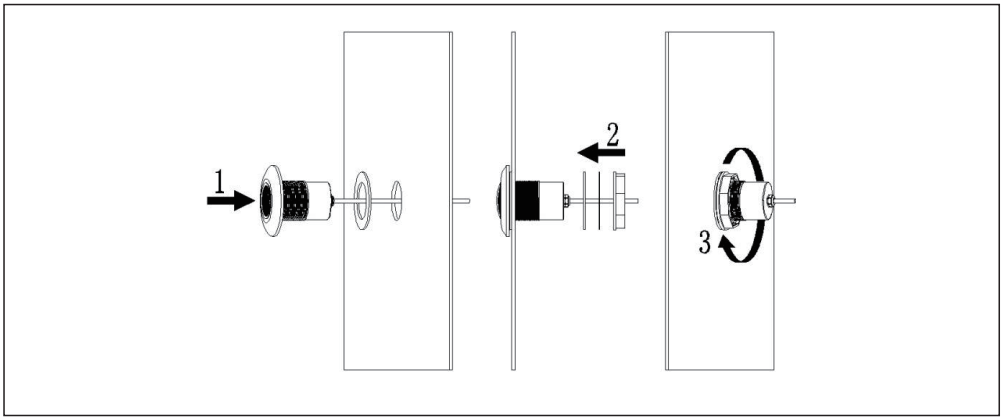


Figure 5

3. Install the Light Body:

Position the light body, put the waterproof gasket on the light body, and then pass it through the fiberglass pool wall holes, and then put another waterproof gasket, transparent waterproof gasket, plastic nut in turn on the light body's external threads. Turn clockwise to tighten the nut to complete the installation (pay attention to the tightening of rotating moderate strength. Do not over-exertion, so as not to damage the light parts; after the installation is completed, check whether the light is firmly installed, shake the light body to confirm its stability).

6. Concrete Pool Installation

1. Installation and Parts List

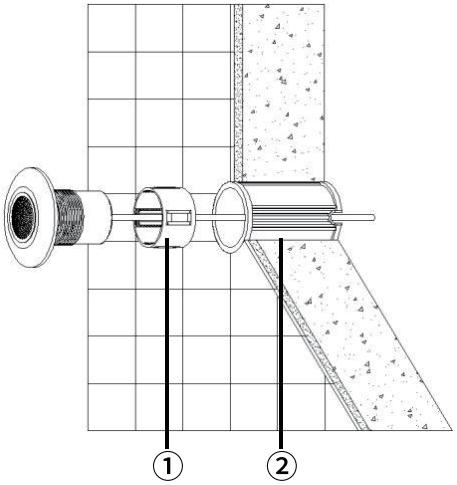


Figure 6

Parts List			
Item No.	Parts Description	Quantity	Unit
①	Female Threaded Fittings	1	Piece
②	Plastic Niche	1	Piece

2. Installation Steps

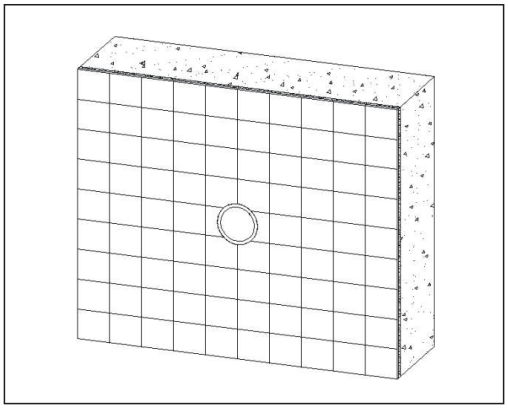


Figure 7

1. Installation of the Niche

Put the ② plastic niche into the hole reserved in the pool wall and fix it;

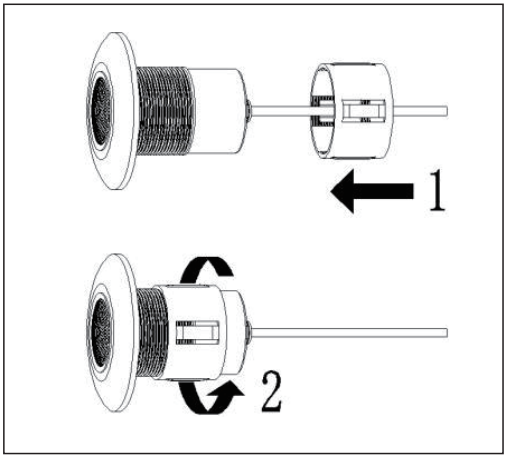


Figure 8

2. Installation of Female Threaded Fittings:

Slip the ① female threaded connector through the wires of the light body onto the light body threads, turn the connector counterclockwise and tighten;

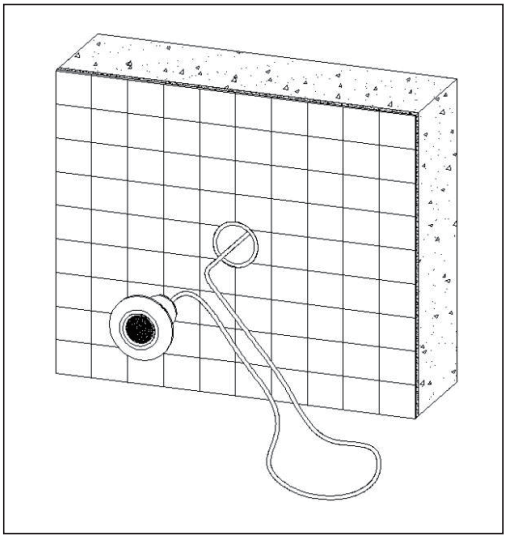


Figure 9

3. Connect the Power Cord:

Pass the wires from the light body through the pre-built holes, the threading conduit in order, and reserve a spare wire, then connect it to the junction box;

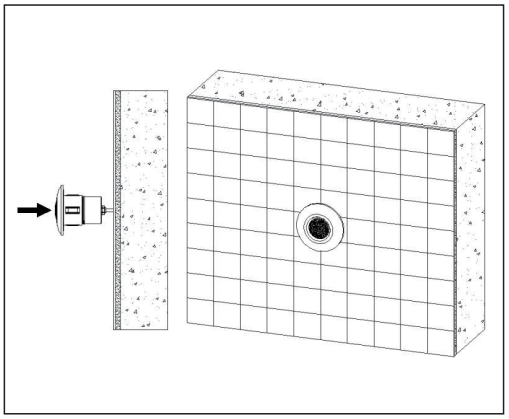


Figure 10

4. Install the Light Body:

Square up the light body and push it into the niche until the light body is tight against the pool wall to complete the installation (note that after the installation is complete, check that the light fixture is securely mounted and shake the light body to confirm its stability).

7. Troubleshooting

Item No.	Potential Trouble	Trouble Analysis	Possible Solution
1	The light is dimming	Low voltage. The controller is not connected, or the controller is connected but not turned on.	Check the voltage output from transformer. If a controller is installed, check whether the underwater light is connected to the controller (If connected, check if it is turned on)
2	The light does not light up after power on	The power cord is not connected properly. The fuse is blown. The light is faulty.	Check the connection position of power cord. Check the fuse on the switchboard. Replace the light. Contact qualified electrician to test.
3	When the power is on, it lights up, and then it goes off after a few seconds	The transformer is faulty	Check the voltage output from transformer. Contact qualified electrician to test.

8. Maintenance

1. In order to use this product safely and efficiently, please check and clean the light regularly (recommended once every 3 months).
2. When maintaining the light, be sure to cut off the power supply to prevent electric shock.
3. During the inspection, ensure that all the connecting parts of the light body are firm to prevent accidents caused by aging, loosening, and falling off, etc.
4. Please do not use thinners, gasoline or other volatile and corrosive substances to wipe and clean the lights, otherwise it may cause the light to discolor or be damaged.

9.Conclusion

We hope the manual can provide you with detailed installation guidance. Thank you again for choosing our products. If you have any questions or need help, please feel free to contact us. We wish you a smooth installation and enjoy a comfortable and glorious lighting environment!