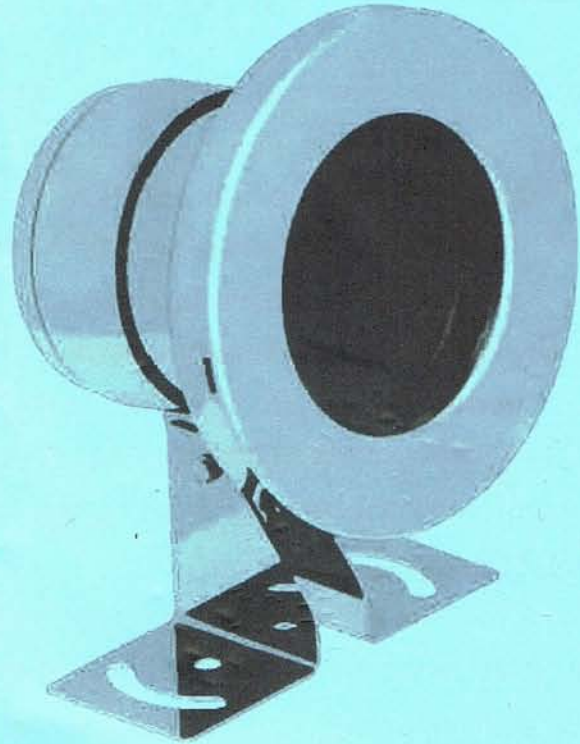




UL-F20A; LED-F20A



USER MANUAL AND INSTALLATION INSTRUCTION

- A. Danger and Warning Notice
- B. General Information
- C. Installation Instruction
- D. Replacement Parts

DANGER AND WARNING NOTICES



- Installation must be installed by a licensed or certified electrician or serviceman in accordance with the national and local electrical code and all applicable ordinances.
- Before installation, please read and familiarise yourself with the Danger and Warning Notices indicated in this manual.
- Always turn off the power supply to the underwater light before installation and servicing.
- Improper installation, operation or servicing may create electrical hazard which can result in severe injury, death or damage to property. It is important to follow the instructions provided in this manual and to comply with the national and local regulations, ordinances, electrical and safety code.
- Visit www.emaux.com.hk for more information.



GENERAL INFORMATION

- A. Make sure the electrical systems of your fountain comply with National and Local regulations, ordinances, electrical and safety code.
1. Example of some National and Local code requirement:
 - I. The electrical circuit must have a Ground Fault Circuit Interrupter (GFCI), and have an suitable circuit breaker
 - II. The junction box for underwater lights must locate at least 20 cm above water level and at least 120cm from the edge of the fountain.
- B. Installation or servicing of the electrical system and the light must be by a licensed electrician or a certified serviceman in order to meet or exceed the National and Local requirement before the housing is installed.
- C. The User Manual and Installation Instruction contain important information about the safety issue, installation procedure and operation of the product. This information should be shared with the owner, installer and operator of this equipment.
- D. The User Manual and Installation Instruction should be kept for future references.

INSTALLATION INSTRUCTION

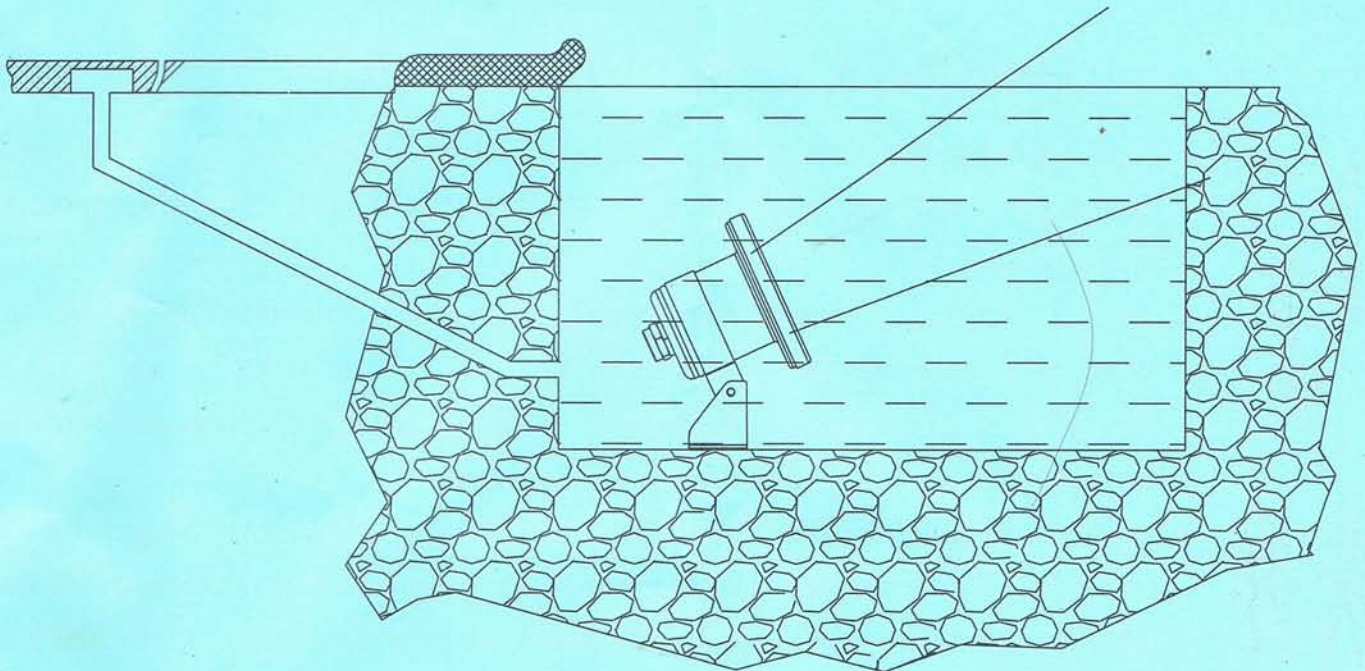


Figure 1.



1. **The electrician must follow the preparatory steps before the installation of light fixture.**
2. **Make sure that the electrical system of your fountain complies with all National and Local Electrical Code. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the installation of the light fixture.**

Some of the national and local electrical codes are list below:

- The lighting circuit must have a Ground Fault Circuit Interrupter, or for low voltage lights a listed light transformer, and have an appropriately rated circuit breaker.
- The junction box or (12 volts lights and the low voltage transformer) must be located at least 20 cm above water level, at least 10cm above ground level, and at least 120cm from the edge of the fountain, please check Figure 1)
- All the accessories and metal parts within 152cm of the fountain must be electrically bonded properly.
- The light must be properly installed so that the top of the underwater light's lens is at least 45.5cm below the surface of the water in the fountain; please refer to Figure 1.
- The wet niche must be properly electrically bonded and grounded via the No.8 AWG ground connector located at the rear of the niche; please see Figure 1

NOTE: The fountain electrical system must meet all applicable requirements; the electrician should also consult the local building agency

- This light is to be installed in Fountain and water feature pond only.

Light Installation

1. Connect the cord into the junction box as required.
2. Install the S.S ring onto the shell and placed on 2 holders with ear screws
3. Stablize 2 holders with anchor



LIGHT OPENING FIGURE

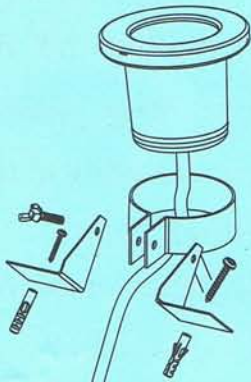


Figure 2

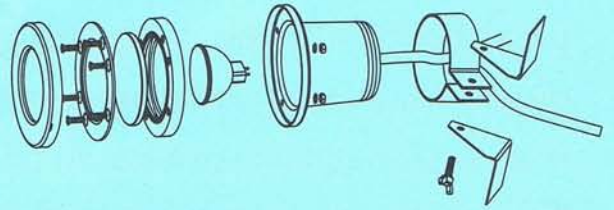


Figure 3

Lamp Replacment

1. Screw out the ear screw that hold the light shell and take out the shell.
2. Using the screwdriver to remove the light cover.
3. Taking out the inner housing from the shell, and removed the fasten screws and nuts (4 sets)
4. Remove the ring , Oring and glass. This will be able to replace the light bulb.

REPLACEMENT PARTS FIGURE

Item	Part No.	Description	Qty
1	03017055	Face Plate	1Pc
2	03011168	M4*20 Screw	4Pc
3	03017054	Face Ring	1Pc
4	87012009	Lights Lens	1Pc
5	02021038	Waterproof Washer	1Pc
6	04011001	MR16 Halogen Lamp 12V/20W	1Pc
	04011016	MR16 (18 Bulbs) LED 12V/1W Panel (Automatic Colour Change)	
	04011015	MR16 (18 Bulbs) LED 12V/1W Panel (White-Colour)	
7	89044301	Light Encasing	1Set
8	03012020	M4 Washer	4Pc
9	03013004	M4 Nut	4Pc
10	89044302	Water Joint Fittings	1Set
11	04013004	2.5M Cable	1Pc
12	03017056	S.S Hoop	1Pc
13	89044303	Body Stand	1Set
14	03011087	M5 X 17 Star Screw	1Pc
15	03011023	M5*35 Screw	2pc
	87013019	Plastique for M5*35 Screw	2pc

