



INSTALLATION & MAINTENANCE GUIDE

Light Fixtures

For Models	
	420049 Compact Fluorescent 24IN
	420050 Compact Fluorescent 36IN
	420051 Compact Fluorescent 48IN
	420052 Compact Fluorescent 72IN
	420035 T5 HO 24IN
	420151 T5 HO 30IN
	420036 T5 HO 36IN
	420037 T5 HO 48IN
	420038 T5 HO 72IN



Thank you for purchasing an AquaticLife™ Marine Light Fixture for use with your aquarium!

Thank you for purchasing an AquaticLife™ Marine Light Fixture for use with your marine and freshwater aquarium. We know you value quality and innovation and will be pleased with this product's performance.

We encourage you to take a few minutes to become familiar with this manual and note items that apply to your particular model. For additional information, please visit www.aquaticlife.com.

Your purchase includes a coupon on the side of the box. Save Life Rewards™ point coupons from Aquatic Life products and redeem them for free merchandise at www.aquaticlife.com/rewards. This is our way of saying thank you for your loyalty.



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This symbol indicates **"WARNINGS"** that are essential in order to protect against injury to people or damage to equipment.



This symbol indicates **"NOTES"** that are specific instructions on how to operate, control, adjust or maintain the units.



This symbol indicates **"TIPS"** that are intended to offer helpful advice for a better user experience.

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#420051 #420052

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T5 HO FLUORESCENT MODELS

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#420037 #420038

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Compact Fluorescent
& T5 HO Light Fixtures

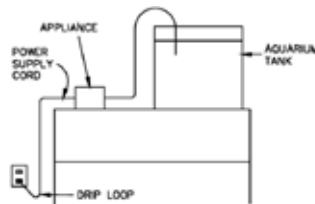
SAFETY INSTRUCTIONS



WARNING

TO GUARD AGAINST INJURY, BASIC PRECAUTIONS SHOULD BE OBSERVED, INCLUDING THE FOLLOWING:

- A) **READ AND FOLLOW ALL SAFETY INSTRUCTIONS.**
- B) **DANGER** – To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt repairs by yourself; return the appliance to an authorized service facility for service or discard the appliance:
- 1) If the appliance falls into the water, DON'T reach for it! First unplug it and then retrieve it. If electrical components of the appliance get wet, unplug the appliance immediately. (Non-immersible equipment only)
 - 2) If the appliance shows any sign of abnormal water leakage, immediately unplug it from the power source. (Immersible equipment only)
 - 3) Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not intended to be wet.
 - 4) Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or has been dropped or damaged in any manner.
 - 5) To avoid the possibility of the appliance plug or receptacle getting wet, position aquarium stand and tank to one side of a wall-mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop," shown in the figure below, should be arranged by the user for each cord connecting an aquarium appliance to a receptacle. The "drip loop" is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, DON'T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then, unplug and examine for presence of water in the receptacle.
- C) Close supervision is necessary when any appliance is used by or near children.
- D) To avoid injury, do not contact moving parts or hot parts such as heaters, reflectors, lamp bulbs, and the like.
- E) Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
- F) Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
- G) Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
- H) Make sure an appliance mounted on a tank is securely installed before operating it.
- I) Read and observe all the important notices on the appliance.
- J) If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
- K) For added safety, the appliance must be plugged into a receptacle controlled by a GFCI (ground fault interrupter) circuit breaker. Device must be properly connected to a grounded three-prong receptacle.
- L) This appliance is intended FOR HOUSEHOLD USE ONLY.
- M) This Light Fixture is required to be used over a covered aquarium. A glass top or protective barrier is required to minimize the fixture's exposure to water.
- N) **SAVE THESE INSTRUCTIONS**





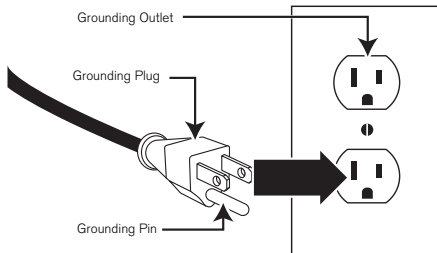
GROUNDING INSTRUCTIONS

THIS APPLIANCE SHOULD BE GROUNDED TO MINIMIZE THE POSSIBILITY OF ELECTRIC SHOCK.

GROUNDING SETUP

This appliance should be grounded to minimize the possibility of electric shock. This appliance is equipped with an electric cord having an equipment grounding conductor and a grounding type plug. The plug must be plugged into an outlet that is installed and grounded in accordance with all appropriate codes and ordinances.

This appliance is for use on a normal 120-volt circuit, and has a grounding plug that looks like the plug illustrated below.



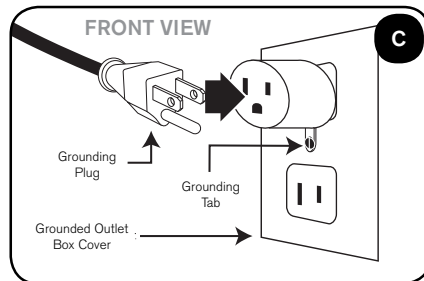
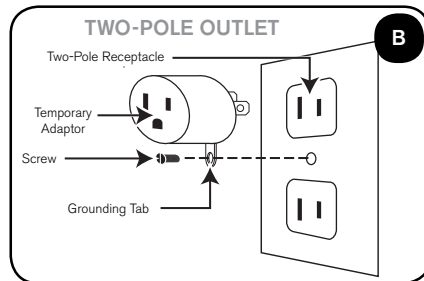
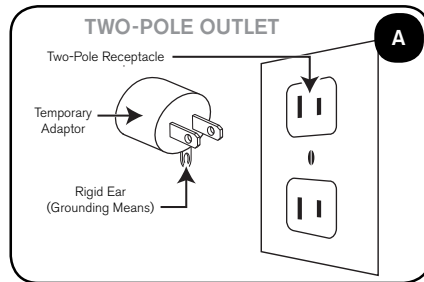
A temporary adaptor which looks like the adaptor illustrated in (A) may be used to connect this plug to a two-pole receptacle as shown in (A) if a grounded outlet is not available.

A temporary adaptor should only be used until a grounded outlet can be installed by a qualified electrician.

GROUNDING INSTALLATION

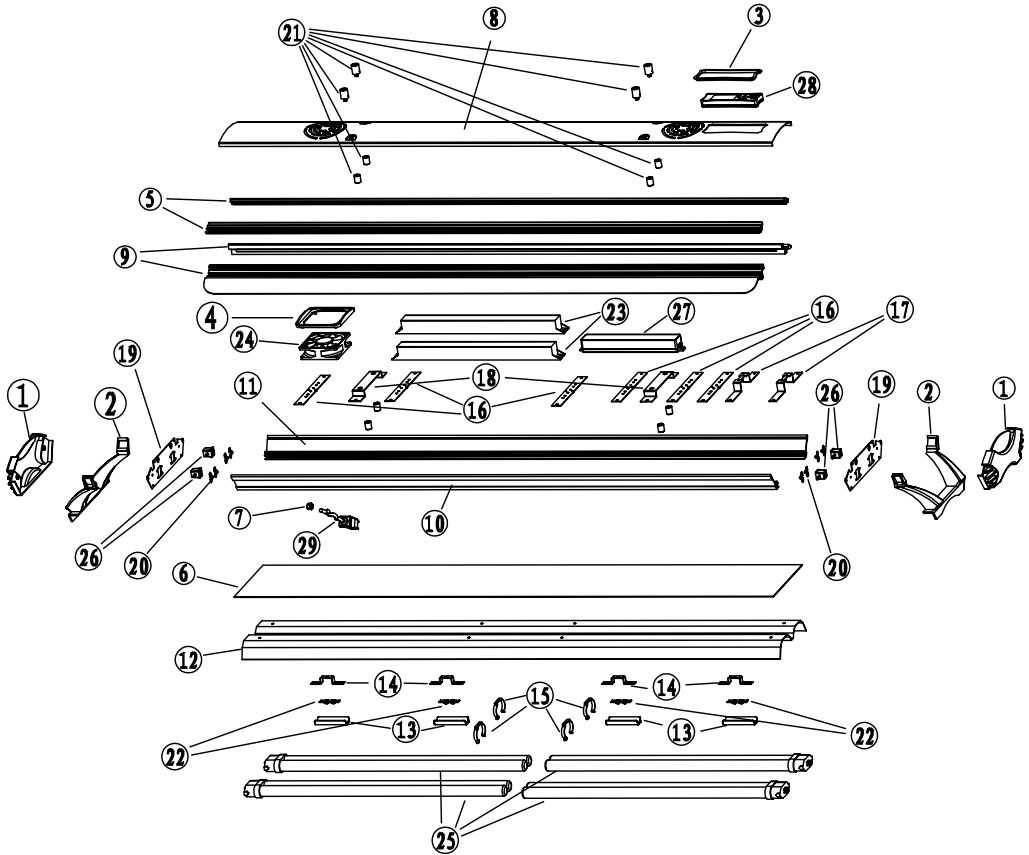
The green-colored rigid tab extending from the adaptor must be fastened to a permanent ground such as a grounded outlet box.

1. Plug temporary adaptor into two-pole outlet. (A)
2. Insert screw through rigid tab on temporary adaptor and into grounded outlet box. (C)



COMPACT FLUORESCENT PARTS / SPECS

PARTS DIAGRAM



**PARTS LIST:
For Compact Fluorescent Light Fixtures**

	Model Numbers			
	420049	420050	420051	420052
420/460 Lamp(s):	410045	410047	410045	410047
10,000 K Lamp(s):	410046	410048	410046	410048
LED:	470103			
Aquarium Frame Mounts:	470062			
Fan:	470104			
Ballast:	470073	470074	470075	470074
Lens Cover:	✓	✓	✓	✓
End Plate:	470105			
Installation & Maintenance Guide:	✓			

**PRODUCT SPECIFICATIONS:
For Compact Fluorescent Light Fixtures**

	Model Numbers			
	420049	420050	420051	420052
Rated Voltage:	120 Volt AC			
Rated Cycle:	60Hz			
Power Factor:	0.95	0.95	0.95	0.95
Power Cord Length:	2 meters			3 meters
Dimensions without Frame Mounts: (L x W x H):	62.5 x 23 x 9.12 cm 24.60 x 9.05 x 3.59 in	93 x 23 x 9.12 cm 36.61 x 9.05 x 3.59 in	120.5 x 23 x 9.12 cm 47.44 x 9.05 x 3.59 in	181.5 x 23 x 9.12 cm 71.45 x 9.05 x 3.59 in

COMPACT FLUORESCENT INSTALLATION

Tools required for installation:

- 1) Phillips #2 Screwdriver

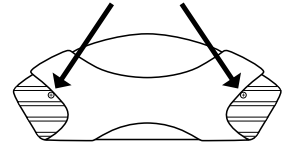
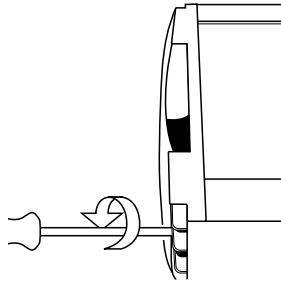
PACKAGING



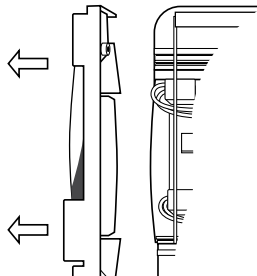
TIP: Use a large towel under the fixture while removing the shipping materials to avoid scratching the fixture.

The Aquatic Life Marine Light Fixture is shipped with the compact fluorescent lamps installed; however, the shipping materials will need to be removed prior to operation. Place the light fixture upside down on a surface that will not mar or scratch the finish.

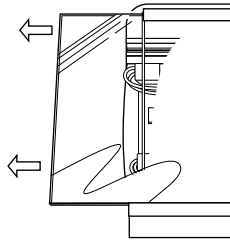
- 1) Remove the two screws from both the left and right sides of the fixture (Phillips Screwdriver required).



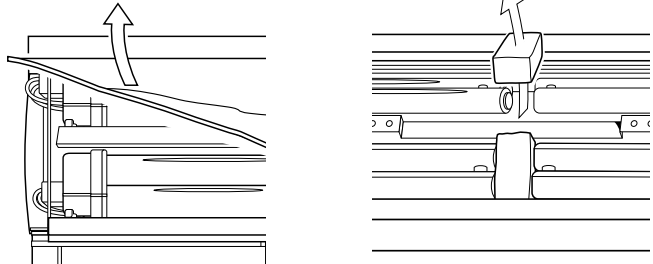
- 2) After the four screws are removed, pull the End Plates from the fixture.



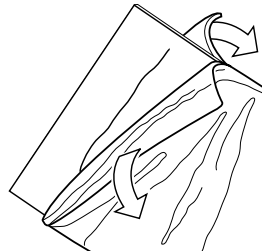
3) Slide the Acrylic Lens Cover out of the fixture.



4) Remove the cardboard and Styrofoam shipping materials.



5) Acrylic scratches easily and your new fixture includes a plastic film on the Lens Cover to protect it during shipping. Peel the protective film off both sides of the Acrylic Lens Cover.

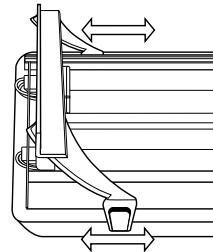
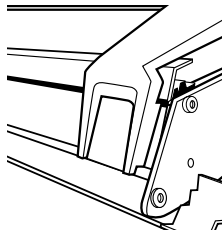
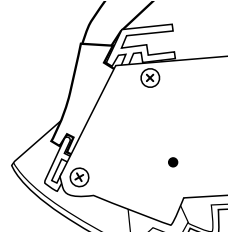
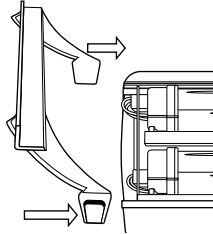


NOTE: DO NOT replace the end plates until the Aquarium Frame Mounts have been attached.

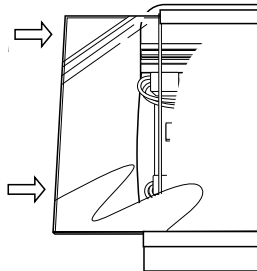
COMPACT FLUORESCENT INSTALLATION

AQUARIUM FRAME MOUNTS

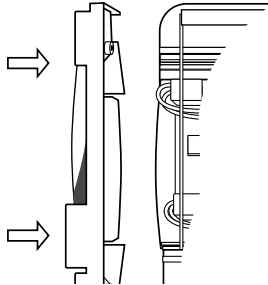
- 1) With the End Plates removed, attach the two Aquarium Frame Mounts. The Mounts slide into the channels on the sides of the light fixture.



- 2) Slide the Acrylic Lens Cover back into the track.



- 3) Reattach both End Plates.



- 4) Place the fixture over a covered aquarium and adjust (slide) the Aquarium Frame Mounts so that the base of each Mount is firmly resting on the aquarium frame.

SUSPENSION SYSTEM (OPTIONAL ACCESSORY, ITEM # 420063)

The light fixture can be hung from overhead supports with optional suspension hardware. The fixture is equipped with Mounting Points on the housing for easy connection. Refer to the Installation Guide included with the suspension hardware.



NOTE: Each Zone has been pre-installed with a different Lamp that will provide an array of spectral output for the tank inhabitants.

POWER

The Aquatic Life Marine Light Fixture is equipped with a built in Digital Timer and a single power cord. The Timer enables independent control of three lighting Zones in the fixture. Connect the power cord into a grounded outlet (GFCI). The display will illuminate when power is supplied.

TIMER

The Digital Timer controls three Zones in the Marine Light Fixture: 10,000 K Lamps, 420/460 Lamps and Lunar LED's. Each of these Zones can be programmed to operate at different times throughout the day. See Page 21 for timer setup and operation.

LAMP REPLACEMENT

Depending on the type of marine aquarium inhabitants, the Lamps may need to be replaced every 9 to 18 months. It is best to review the requirements for your animals prior to replacing the Lamps. Consult your local store or supplier for a recommendation for frequency of replacement.

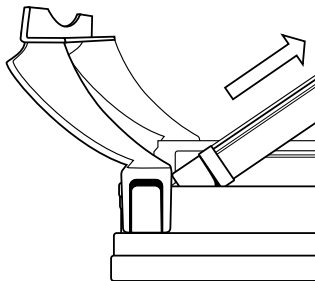
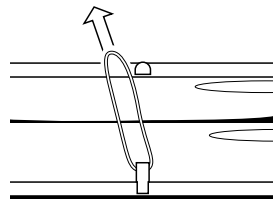
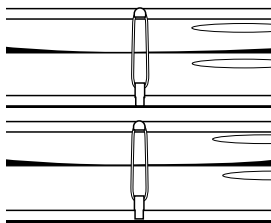
To remove and replace Lamps, follow the Installation procedure for Packaging on page 9. The instructions will show how to remove the End Plates and Lens Cover. This will give access to the Lamps.

The Lamps are secured in two places; the Socket End and the Lamp Clip. The Lamp Clip secures the Lamp with a silicon Band that stretches over the Lamp.

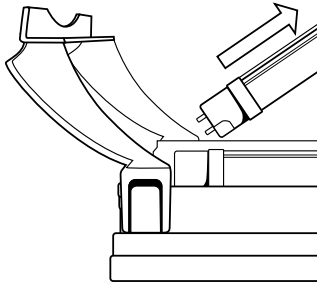
- 1) Remove the Silicon Band from the Lamp Clip and lift the Lamp gently from the Lamp Clip. The Lamp will "pivot" at the Socket End, allowing the Lamp to be easily removed.



WARNING: The fixture is hot during operation and must cool before servicing. Unplug the fixture from power supply and allow to cool for 15 minutes before changing Lamps.



- 2) While holding the plastic end of the Lamp "pull" the Lamp from the Socket.



- 3) Reverse steps to install the new Lamp.



WARNING: The fixture is not waterproof. Do not spray or submerge the fixture.

HOUSING

Unplug the Marine Light Fixture and wipe the housing with a clean moist/semi-dry cloth to remove dust, salt and other debris that may have built up on the fixture.



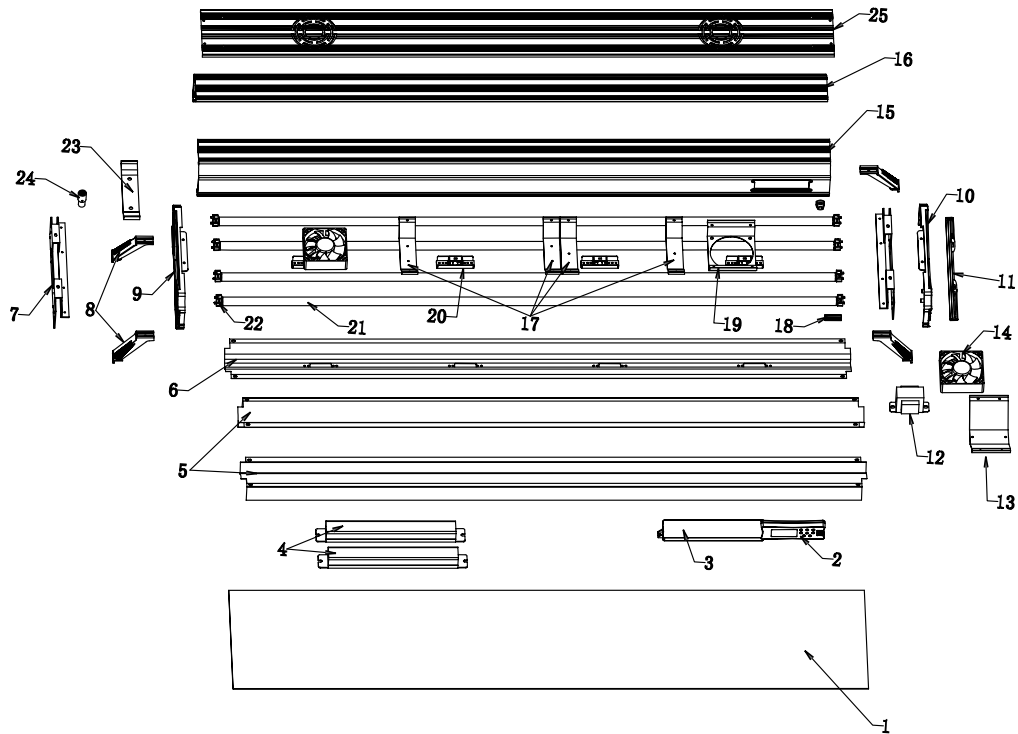
TIP: Keep the fixture's Acrylic Lens Cover and Glass Cover over the aquarium clean to allow maximum light penetration into the aquarium.

LENS COVER

Wipe the Acrylic Lens Cover with fresh water or an acrylic cleaner to maintain peak light transmission. If the Lens Cover is allowed to become dirty, it will reduce the amount of light that enters the aquarium.

T5 HO FLUORESCENT PARTS / SPECS

PARTS DIAGRAM



**PARTS LIST:
For T5 HO Fluorescent Light Fixtures**

	Model Numbers				
	420035	420151	420036	420037	420038
420/460 Lamp(s):	410039	410039	410041	410043	410041
10,000 K Lamp(s):	410040	410040	410042	410044	410042
LED:	470103				
Aquarium Frame Mounts:	470065				
Fan:	None	None	470104 (1 qty.)	470104 (2 qty.)	470104 (2 qty.)
Ballast:	470020	470020	470071	470072	470071
Lens Cover:	✓	✓	✓	✓	✓
End Plate:	470106 (LEFT) / 470107 (RIGHT)				
Installation & Maintenance Guide:	✓				

**PRODUCT SPECIFICATIONS:
For T5 HO Fluorescent Light Fixtures**

	Model Numbers				
	420035	420151	420036	420037	420038
Rated Voltage:	120 Volt AC				
Rated Cycle:	60Hz				
Power Factor:	0.55	0.55	0.55	0.59	0.55
Power Cord Length:	2 meters				3 meters
Dimensions without Frame Mounts: (L x W x H):	60 x 25.8 x 8.34 cm 23.62 x 10.16 x 3.28 in	75 x 25.8 x 8.34 cm 29.53 x 10.16 x 3.28 in	90 x 25.8 x 8.34 cm 35.43 x 10.16 x 3.28 in	120 x 25.8 x 8.34 cm 47.24 x 10.16 x 3.28 in	180 x 25.8 x 8.34 cm 70.86 x 10.16 x 3.28 in

T5 HO FLUORESCENT INSTALLATION

Tools required for installation: Phillips #2 Screwdriver

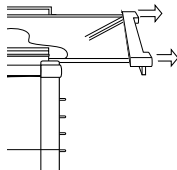
PACKAGING



TIP: Use a large towel under the fixture while removing the shipping materials to avoid scratching the fixture.

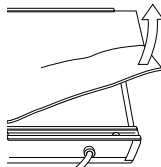
The Aquatic Life T5 HO Marine Light Fixture is shipped with the Lamps, however, the shipping materials will need to be removed prior to operation. Place the light fixture upside down on a surface that will not mar or scratch the finish.

- 1) Slide the Acrylic Lens Cover out of the fixture.



NOTE: The Lamps will be packaged under the packing materials, do not discard.

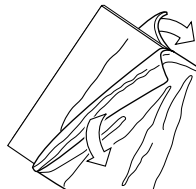
- 2) Remove the packing materials.





NOTE: DO NOT replace the Acrylic Lens Cover until the Aquarium Frame Mounts have been attached.

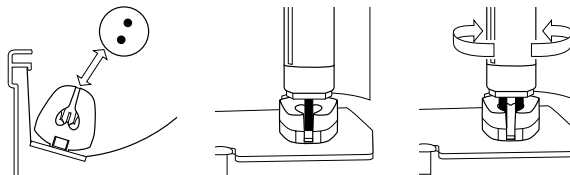
- 3) Your new fixture includes a plastic film on the Lens Cover to protect it during shipping. Peel the protective film off both sides of the Acrylic Lens Cover.



LAMPS

The Lamps are packaged in a protective tube to help eliminate damage during shipping.

- 1) Remove the Lamps from their protective tubes.
- 2) T5 HO Lamps use a mini bi-pin connection to make contact with the fixture's sockets. To install, insert both ends of the Lamp into sockets and rotate 90 degrees. The mini bi pin connections should now be horizontal in the socket.



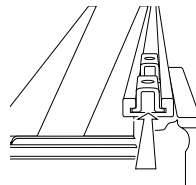
- 3) Install Lamps in the following sequence:
 - 1st 10,000 K Lamp, in sockets closest to front of fixture
 - 2nd 420/460 Lamp, in second sockets from front of fixture
 - 3rd 10,000 K Lamp, in third sockets from front of fixture
 - 4th 420/460 Lamp, in sockets closest to back of fixture

The Timer will control the Lamps in the above arrangement. Any change in the sequence of Lamps will change the Timer's ability to control the Lamps as designed.

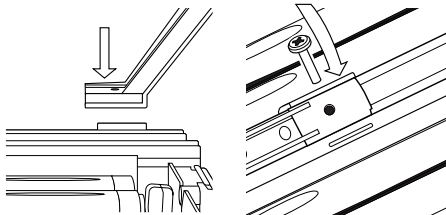
T5 HO FLUORESCENT INSTALLATION

AQUARIUM FRAME MOUNTS

- 1) With the small End Plate still removed, attach the four Aquarium Frame Mounts. Slide the metal anchors into the channel located on the bottom side of the light fixture. Place two anchors per channel; two for the front and two for the back.

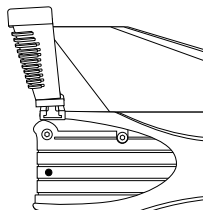


- 2) Place each Aquarium Frame Mount over a metal Anchor and insert the included screw through the Mount and into the Anchor. Tighten the screw until the Anchor pulls against the inside of the channel and secures the Mount to the fixture.

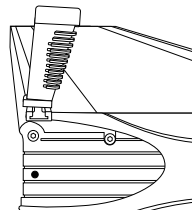


NOTE: Not all of the Aquarium Frame Mounts are the same. Position the Mounts so that the horizontal ribs in the side of the Mount point away from the fixture. The Mounts are designed to angle away from the fixture to provide a wide stable base.

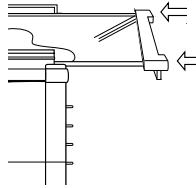
CORRECT PLACEMENT:



INCORRECT PLACEMENT:



- 3) Slide the Acrylic Lens Cover back into the track.



- 4) Place the fixture over a covered aquarium and adjust (slide) the Aquarium Frame Mounts so that the base of each Mount is firmly resting on the aquarium frame. Tighten the screws to secure the Mounts to the fixture.

SUSPENSION SYSTEM (OPTIONAL ACCESSORY, ITEM # 420063)

The light fixture can be hung from overhead supports with optional suspension hardware. The fixture is equipped with Mounting Points on the housing for easy connection. Refer to the Installation Guide included with the suspension hardware.

POWER

The Aquatic Life Marine Light Fixture is equipped with a built in Digital Timer and a single power cord. The Timer enables independent control of three lighting Zones in the fixture. Connect the power cord into a grounded outlet (GFCI). The display will illuminate when power is supplied.

TIMER

The Digital Timer controls three Zones in the Marine Light Fixture: 10,000 K Lamps, 420/460 Lamps and Lunar LED's. Each of these Zones can be programmed to operate at different times throughout the day. See Page 21 for timer setup and operation.

T5 HO FLUORESCENT MAINTENANCE



WARNING: The fixture is not waterproof. Do not spray or submerge the fixture.



TIP: Keep the fixture's Acrylic Lens Cover and Glass Cover over the aquarium clean to allow maximum light penetration into the aquarium.



WARNING: The fixture is hot during operation and must cool before servicing. Unplug the fixture from power supply and allow to cool for 15 minutes before changing Lamps.

HOUSING

Unplug the Marine Light Fixture and wipe the housing with a clean moist/semi-dry cloth to remove dust, salt and other debris that may have built up on the fixture.

LENS COVER

Wipe the Acrylic Lens Cover with fresh water or an acrylic cleaner to maintain peak light transmission. If the Lens Cover is allowed to become dirty, it will reduce the amount of light that enters the aquarium.

LAMP REPLACEMENT

Depending on the type of marine aquarium inhabitants, the Lamps may need to be replaced every 9 to 18 months. It is best to review the requirements for your animals prior to replacing the Lamps. Consult your local store or supplier for a recommendation for frequency of replacement.

To remove and replace Lamps, follow the Installation procedure for Lamps on pages 16 and 17. The instructions will show how to remove the End Plate and Lens Cover. This will give access to the Lamps.

The Lamps are secured in two places, the left and right sockets.

- 1) Gently grasp the ends of the Lamp to be removed and rotate the Lamp so that the pins are vertical and can be lifted out of the sockets.



NOTE: Both ends of the Lamp must rotate at the same time.

- 2) Insert the new Lamp (with pins in a vertical position) into the socket and gently rotate the Lamp 90 degrees. The Lamp pins should now be in a horizontal position within the socket.

TIMER SET-UP: COMPACT FLUORESCENT & T5 HO FIXTURES

The Digital Timer controls three Zones in the Marine Light Fixture: 10,000 K Lamps, 420/460 Lamps and Lunar LED's. Each of these Zones can be programmed to operate at different times throughout the day.



RESET BUTTON: To reset the timer to its pre-programmed settings, press the Reset Button in the middle of the Timer Panel. A paper clip or similar small object will be needed to press the Reset Button. When the Reset Button is pressed the LED lights will turn on, the 420/460 and 10,000 K lamps will turn off, and the clock will display 0:00.



NOTE: The clock displays a 24 hour format instead of AM or PM.



NOTE: When the programmed on/off times are activated, a triangle indicator will appear on the digital display above AUTO. Press the button of the Lamp type to toggle between the ON / AUTO / OFF modes.

Setting the Time

- 1) Press CLOCK on the Control Panel and the time will begin to flash. Press and hold the HR or MIN buttons to scroll to the current time.
- 2) The clock is equipped with a quick summer time mode, that forwards the clock ahead one hour. Press both the HR or MIN at the same time and the clock will advance one hour and display S in the top right corner of the display. To change back to standard time, repeat the step above and the time will revert back one hour. The S on the display will disappear.

Zone Programming: Setting the on/off times for the Lamps to operate.

- 1) Press both the "PROG" button and the button of the Lamp type that you want to set at the same time (10,000 K, 420/460 or LED). Three arrows above the Lamp type that is being programmed will begin to flash. START will appear on the display.
- 2) Press and hold the HR or MIN buttons to adjust the START time.
- 3) Press PROG to scroll to the END time.
- 4) Press and hold the HR or MIN buttons to adjust the END time. This is the time the Lamps will power off.
- 5) Press CLOCK to return to the current time. The current time will automatically display if there is no activity for 60 seconds.
- 6) Repeat steps 1 through 5 for each Lamp type (Zone) that requires a new time of operation.

Pre-Programmed Times of Operation:

For ease of use, the individual Lamp types are pre-programmed with START and END times. If the timer is in the Pre-programmed mode the display will show an R in the right hand corner of the display.

LAMP TYPE

10,000 K -	START 9:00	- END 17:00
420/460 -	START 8:00	- END 20:00
LED -	START 20:00	- END 6:00

Manual Override

To override the timer during normal operation, press the button of the desired Lamp. Press the button until the display triangle appears above the ON of the Lamp selected. To turn OFF, press the button of the desired Lamp.

To return to the AUTO mode, press the desired Lamp button until the display triangle appears above AUTO.

GLOSSARY OF TERMS

420/460: Light which produces an identifiable or measurable change when it interacts with matter. Actinic lighting is visibly blue and will need a full spectrum bulb to help offset the color distortion. The light wavelength promotes the growth of Zooxanthellae algae, essential for the growth and well-being of all photosynthetic corals and invertebrates. 420/460 Lamps produce a peaked wavelength on the light spectrum at 420 nm and again at 460 nm.

10,000 K: A spectrum that produces a full range of white light that is beneficial to Marine organisms. The Lamp mimics the color of light that can be found in equatorial regions of the world. 10,000 K Lamps produce light over a broad range of the light spectrum up to 700 nm.

Compact Fluorescent (CF): A type of fluorescent lamp designed into an appliance-friendly shape to increase functionality. Like all fluorescent lamps, Compact Fluorescent lamps contain mercury and should be disposed of properly. Visit www.lamprecycle.org to learn more about disposal.

Drip Loop: To arrange an electrical cord so it hangs down well below the outlet before running back up again. Any water running down the cord will drip down from the loop, rather than running uphill to enter the outlet.

GFCI: Ground Fault Circuit Interrupter, a device used to measure if any electrical current is "leaking" from the circuit. If a "leak" is determined the GFCI will switch the power off.

LED: (Light Emitting Diode) A diode is the simplest sort of semiconductor device. The semiconductor material for LED's is typically aluminum-gallium-arsenide (AlGaAs). In pure aluminum-gallium-arsenide, all of the atoms bond perfectly to their neighbors, leaving no free electrons (negatively-charged particles) to conduct electric current. Light is produced from energy that can be released by an atom. It is made up of many small particle-like packets that have energy and momentum but no mass. These particles, called photons, are the most basic units of light. Photons are released as a result of the moving electrons.

Nanometer: (nm) A unit in which wavelengths of light are expressed. 1 nm = 0.000000001 meter (1 billionth of a meter).

Power Factor: A measure of the effectiveness with which an electrical device converts volt-amperes to watts

T5 HO Lamp: A type of high output fluorescent lamp with a 5/8" diameter. This slim profile makes T5 lamps more efficient than standard fluorescent tubes. T5 HO lamps offer many benefits; including lamp life, power efficiency, high lumen output per watt and small size. Like all fluorescent lamps, T5 HO Lamps contain mercury and should be disposed of properly. Visit www.lamprecycle.org to learn more about disposal.



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