

INSTALLATION & MAINTENANCE GUIDE

BALLAST RETROFIT KITS

Item #	Product Description
420211	Ballast Kit T5H0 24W x 2 Lamp
420213	Ballast Kit T5H0 39W x 2 Lamp
420215	Ballast Kit T5H0 54W x 2 Lamp
420212	Ballast Kit T5H0 24W x 4 Lamp
420214	Ballast Kit T5H0 39W x 4 Lamp
420216	Ballast Kit T5H0 54W x 4 Lamp

Thank you for purchasing an AquaticLife™ Ballast Kit for use with your 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 RewardsTM point coupons from Aquatic Life products and redeem them for free merchandise at www.aquaticlife.com. This is our way of saying thank you for your loyalty



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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Aquatic Life, LLC

Commerce, CA 90040
Toll-Free US only: (888) 548-3480
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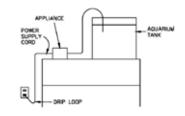
WARNING

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

NOTE

BRACES

DO NOT POSITION HID LAMPS

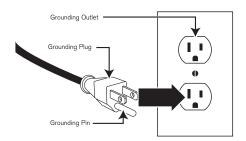
DIRECTLY OVER AQUARIUM FRAME

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.



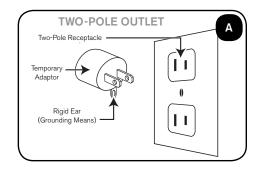
A temporary adaptor which looks like the adaptor illustrated in (A) may be used to connect this plug to a two-pole receptacle as shown in (A) if a grounded outlet is not available.

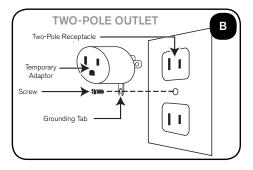
A temporary adaptor should only be used until a grounded outlet can be installed by a qualified electrician.

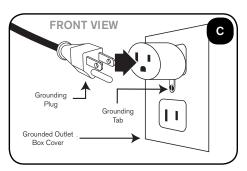
GROUNDING INSTALLATION

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. (B)
- Insert screw through rigid tab on temporary adaptor and into grounded outlet box. (C)







BALLAST RETROFIT KIT INSTALLATION

REQUIRED FOR INSTALLATION

1. Philips #2 Screwdriver

The Aquatic Life Ballast Kit is shipped with the Lamp Sockets already attached to the ballast, so no wiring is required. The kit also includes the Lamp Clips needed to mount the lamps.

The Ballast Kit uses color coded wires near the Lamp Sockets to prevent the wrong Lamp Sockets from being used with each other. The colors are black and red for the two lamp Ballast Kit. The four lamp Ballast Kit use black, red, yellow and blue.

LAMP CLIPS

Each Lamp Clip is secured to the mounting surface using a 5/8" Wood Screw. It is recommended that the Lamp Clips are centered at the following distances to work best with optional Aquatic Life reflectors:



24" lamps – The Lamp Clips should be centered 19.25"/49cm apart

36" lamps - The Lamp Clips should be centered 31.125"/79cm apart

48" lamps - The Lamp Clips should be centered 42.875" /109cm apart





NOTE: If the surface you are mounting the Lamp Clip to is less than 3/4" thick, you will need to use shorter screws to mount the Lamp Clip.



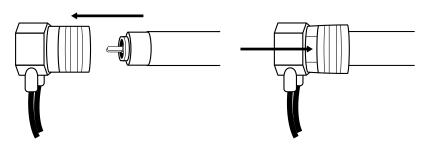
NOTE: These distances are best for optional AquatiLife Reflectors. If positioned wider or shorter than recommended mounting of Lamps or Reflector my have problems.

LAMP SOCKET ATTACHMENT

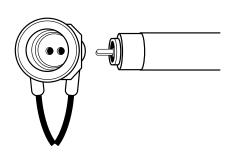
Each Lamp Socket is color coded (color band located near the Lamp Socket) and the same colored Lamp Socket MUST be used with the same lamp. If the Lamp Sockets are not matched correctly, the Ballast will not operate correctly and could fail. Match the black Lamp Sockets together and the red Lamp Sockets together. If using the four lamp Ballast Kit match the yellow with yellow and the blue with the blue when attaching the Lamp Sockets to the lamps.

When attaching the Lamp Sockets to the lamp, look inside the Lamp Socket to view the holes for lamp pin placement. This will help when inserting the lamp into the Lamp Socket.

Gently insert the lamp into the Lamp Socket. You should feel the pins slide into the holes of the Lamp Socket. If you do not feel the pins inserting into the Lamp Socket, remove and try again. The lamps can only be inserted into the Lamp Sockets one way.



The lamp is fully seated when the silver band located at the end of the lamp meets with the internal white plastic of the Lamp Socket. This is visible through the top of the Lamp Socket.



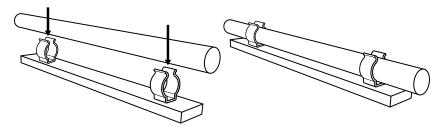


NOTE: Notice the silver band of the lamp pressed against the Lamp Socket inside the protective covering.

BALLAST RETROFIT KIT INSTALLATION

MOUNTING THE LAMP

After the Lamp Sockets are secured and the Lamp Clips are in place, the lamp can be inserted into the Lamp Clips. Gently place the lamp into the top opening of the Lamp Clip and press the lamp into the Lamp Clip. You should feel the Lamp Clip start to open. The lamp will "snap" into the Lamp Clip and the lamp should now be secure.





NOTE: Two Lamp Clips are required for each lamp.

If using the lamps with the optional reflectors it would be best to mount the reflectors to the lamps prior to mounting the lamps into the Lamp Clips. Optional reflectors will increase light output.

BALLAST HOUSING

The Ballast Housing is able to be mounted in a vertical position (screws needed) via the wall mount openings on the bottom of the Ballast Housing. It can also be placed flat on a stable surface.



WARNING: The Ballast Housing is not waterproof. Do not spray or submerge the Ballast Housing. Keep away from splashing or direct contact with water.

SILICON SOCKET, LAMP AND BALLAST HOUSING

The lamps, Lamp Sockets and Ballast Housing can be cleaned with a moist cloth removing buildup that may develop over time.



NOTE: A glass top or protective barrier is required to minimize the lamps exposure to water.

LAMP REPLACEMENT

Depending on the type of 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.





WARNING: Unplug the fixture from the power supply and allow cooling for 15 minutes before changing lamps. Lamps generate heat, and require time to cool.

BALLAST RETROFIT KIT PARTS/SPECS

TWO-LAMP MODELS			
Item Numbers:	420211	420213	420215
Ballast Part Number:	470020	470071	470072
Lamp Clips with Screws:	included	included	included
Installation & Maintenance Guide:	included	included	included
Wattage:	24	39	54
Rated Voltage:	120 Volt AC	120 Volt AC	120 Volt AC
Rated Cycle:	60Hz	60Hz	60Hz
Power Cord:	1 M / 3.28 ft	1 M / 3.28 ft	1 M / 3.28 ft
Lamp Cords:	2.5 M / 8.2 ft	2.5 M / 8.2 ft	2.5 M / 8.2 ft
Dimensions without lamp sockets:	33 x 8.9 x 5.7 cm / 13 x 3.5 x 2.25 in		

FOUR-LAMP MODELS			
Item Numbers:	420212	420214	420216
Ballast Part Number:	470020	470071	470072
Lamp Clips with Screws:	included	included	included
Installation & Maintenance Guide:	included	included	included
Wattage:	24	39	54
Rated Voltage:	120 Volt AC	120 Volt AC	120 Volt AC
Rated Cycle:	60Hz	60Hz	60Hz
Power Cord:	1 M / 3.28 ft	1 M / 3.28 ft	1 M / 3.28 ft
Lamp Cords:	2.5 M / 8.2 ft	2.5 M / 8.2 ft	2.5 M / 8.2 ft
Dimensions without lamp sockets:	33 x 8.9 x 5.7 cm / 13 x 3.5 x 2.25 in		

REGISTRATION & WARRANTY

REGISTERING YOUR PRODUCT(S) WITH AQUATIC LIFE

When you purchase an Aquatic Life product, you will find a Warranty Registration Card accompanying the product. Please complete this Card and mail it in within 15 days from the date of purchase or register your product online at www.aquaticlife.com. Some Aquatic Life products will include a Serial Number. To validate your warranty, the Serial Number must be included for appropriate products.

Product Serial Numbers

Serial Numbers DO NOT contain the letters "UL", "CUL", "CSA", "EN" or "CE". These letters refer to a US, Canadian and European Standards for that product. If you need help locating the Serial Number for your product, please visit our website at www.aquaticlife.com or call Aquatic Life at 1-888-548-3480.

LIMITED WARRANTY

Aquatic Life, LLC warrants that this Ballast Kit shall be free from defective electrical components and leaks or cracks due to defects in materials or workmanship for a period of twelve (12) months from the date of purchase. If a defect is shown, Aquatic Life, LLC will, at Aquatic Life's sole discretion, either repair or replace the product without charge. No cash refunds will be made. This warranty is provided solely to the original consumer purchaser of the product and may not be transferred or assigned.

This warranty does not apply to damage resulting from accident, misuse, abuse, lack of reasonable care, failure to follow safety and installation instructions, use of the product with non-standard electrical service, or any other defect not resulting from defects in the electrical components of the product or defects in materials or workmanship. This warranty will not be effective unless and until the Aquatic Life product is shown to have been used in accordance with the safety and installation instructions accompanying the product.

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Aquatic Life, LLC shall not have any obligations under this warranty unless the owner notifies Aquatic Life, LLC in writing of any alleged defect(s) within 30 days of discovery of the defect(s). Any notice to Aquatic Life, LLC must be delivered by United States or electronic mail to the following address: U.S. Mail

Aquatic Life, LLC 2416 W. Victory Blvd, #136 Burbank, CA 91506

Electronic Mail: customersupport@aquaticlife.com

Aquatic Life, LLC shall be allowed a reasonable period of time to investigate any warranty claim and to perform any testing Aquatic Life, LLC deems necessary to determine the cause of the defect. This warranty shall be interpreted under the laws of the State of California.



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