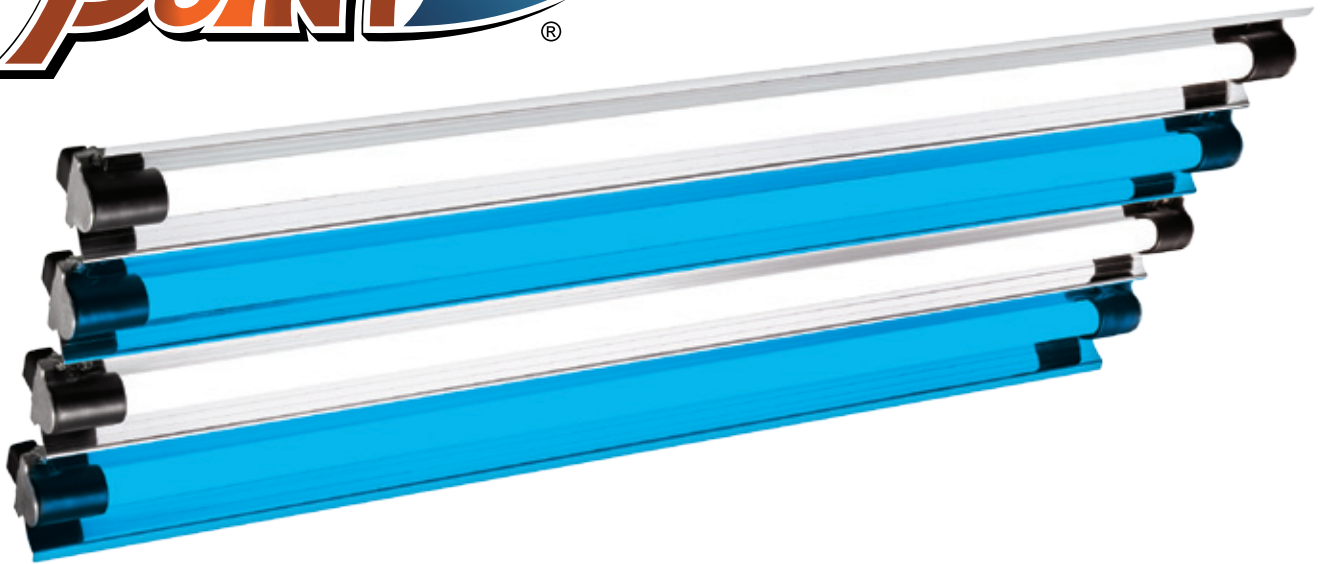


**WARNING! Buyer/user assumes all responsibility for safety and proper use not in accordance with the directions and safety labels.**



**T5 4 Lamp Retrofit Kit** (4 Row Lamp Configuration)

- **14X LIGHT AMPLIFYING PARADYNAMIC REFLECTOR**
- **Water Resistant Endcaps**
- **Premium UL Listed GFCI Plug**
- **Ultra-Silent, No Fan Needed and Energy Efficient Ballast**
- **On/Off Switch**
- **Includes: 2 Sun Wave® and 2 SuperBlue 460® Lamps**  
**Canopy Mounting Bracket (10in) and Hanging Kit**

- **READ AND FOLLOW THE GUIDELINES TO ENSURE THE PROPER USE AND APPLICATION. FAILURE TO FOLLOW THESE GUIDELINES MAY RESULT IN RETROFIT KIT DAMAGE, ELECTRICAL SHOCK, FIRE AND/OR INJURY.**
- **WARNING! LAMPS CAN BE HOT. HANDLE WITH CARE.**
- **NEVER TOUCH THE LAMP WHILE OPERATING. BEFORE WORKING ON THE RETROFIT KIT AND/OR AQUARIUM, THE RETROFIT KIT MUST BE DISCONNECTED FROM THE POWER SUPPLY.**

# WAVE POINT® T5 4 Lamp Retrofit Kit

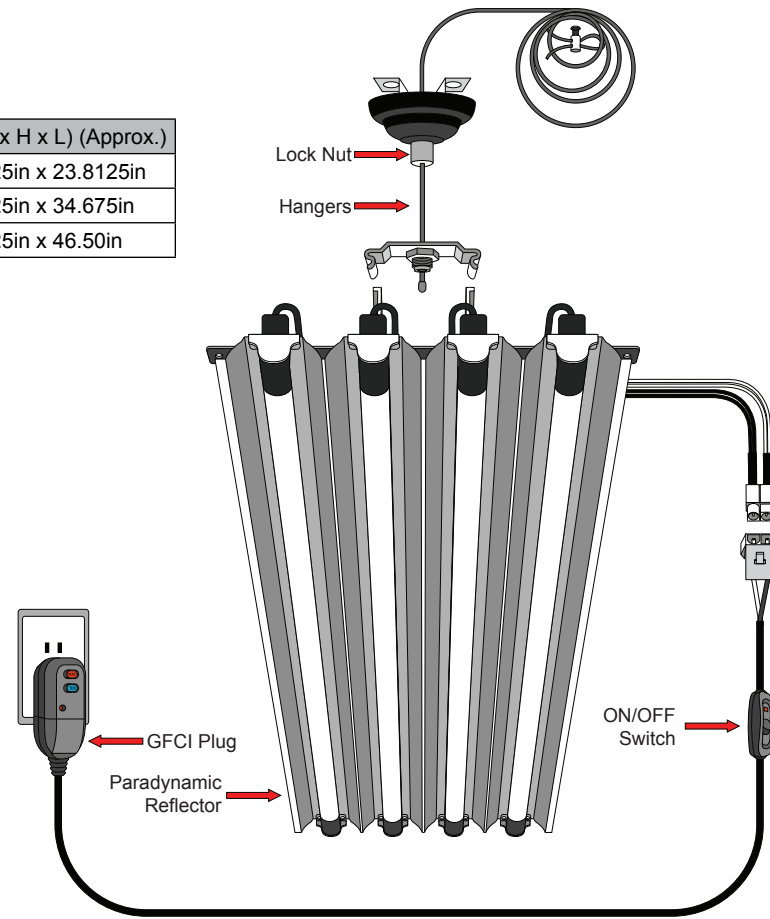
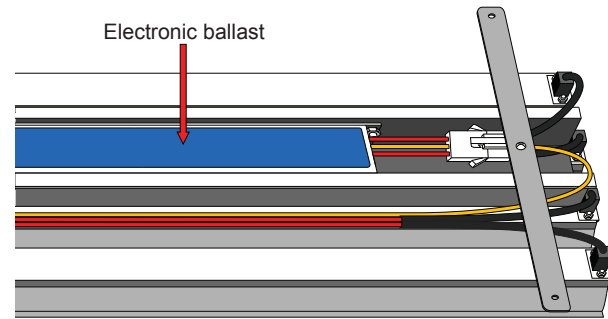
(4 Row Lamp Configuration)

Includes: 2 Sun Wave® and 2 Superblue 460® lamps

MODEL #	DESCRIPTION	DIMENSION (W x H x L) (Approx.)
01019	96 watt 24in T5 4 Lamp Retrofit Kit	8.125in x 2.25in x 23.8125in
01020	156 watt 36in T5 4 Lamp Retrofit Kit	8.125in x 2.25in x 34.675in
01021	216 watt 48in T5 4 Lamp Retrofit Kit	8.125in x 2.25in x 46.50in

## PART LIST

1. 14X light amplifying paradyamic reflector
2. GFCI plug
3. 2 Sun Wave® and 2 Superblue 460® HO T5 lamps
4. ON/OFF switch
5. Lock nut
6. Hanger
7. Electronic ballast



## IMPORTANT WARNING AND SAFEGUARDS

*This product may contain chemicals known to the state of California to cause cancer and or birth defects or other reproductive harm. Wash your hand after handling this product.*

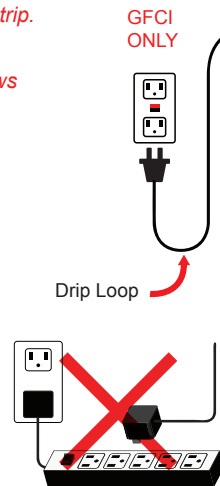
*It is your sole responsibilities to verify that the plug and the receptacle are clean and free of moisture and salt build up at all times. The receptacle must be free of water, salt, calcium, magnesium and dust. Failure to do so can cause fire, damage to property, permanent damage to the product and personal injury not limited to loss of life.*

*Do not plug into extension cord/power strip.*

*Hg lamp contains Mercury  
Manage in accordance with disposal laws  
See: [www.lamprecycle.org](http://www.lamprecycle.org)*

*A drip loop must be used when plugging all electrical aquarium devices. A drip loop is that part of the cord hanging below the receptacle.*

*The national code requires that a GFCI (Ground fault circuit interrupter) be used in the branch circuit supplying all power to water pumps and electrical aquarium equipment. If you do not have a GFCI, have an electrician install one prior to operating any aquarium component.*



**Read and follow the guidelines to ensure the proper use and application. Failure to follow these guidelines may result in Retrofit Kit damage, electrical shock, fire and/or injury.**

1. Use this product for its intended use only.
2. Never yank or pull the cord from the electrical outlet.
3. Do not place the Retrofit Kit directly on top of the aquarium.
4. Do not operate if the plug or wire is damaged.
5. The Retrofit Kit is not to come in contact with water.
6. The Retrofit Kit must be turned off/disconnected from the power supply before any maintenance is done to either the Retrofit Kit or the aquarium.
7. Verify that hands are dry prior to disconnecting the power.
8. To reduce the risk of electrocution keep all connections dry.
9. If the Retrokit Kit falls or comes in contact with water/excess moisture, unplug the Retrofit Kit from the power supply immediately before removing. Failure to do so may cause electrical shock or injury.
10. The Retrofit Kit and connections need to be free of water, moisture and salt build up at all times. Failure to do so will cause electrical arcing resulting in possible fire or electrical shock.
11. Do not place above an open top aquarium.

## INSTRUCTIONS FOR INSTALLATION

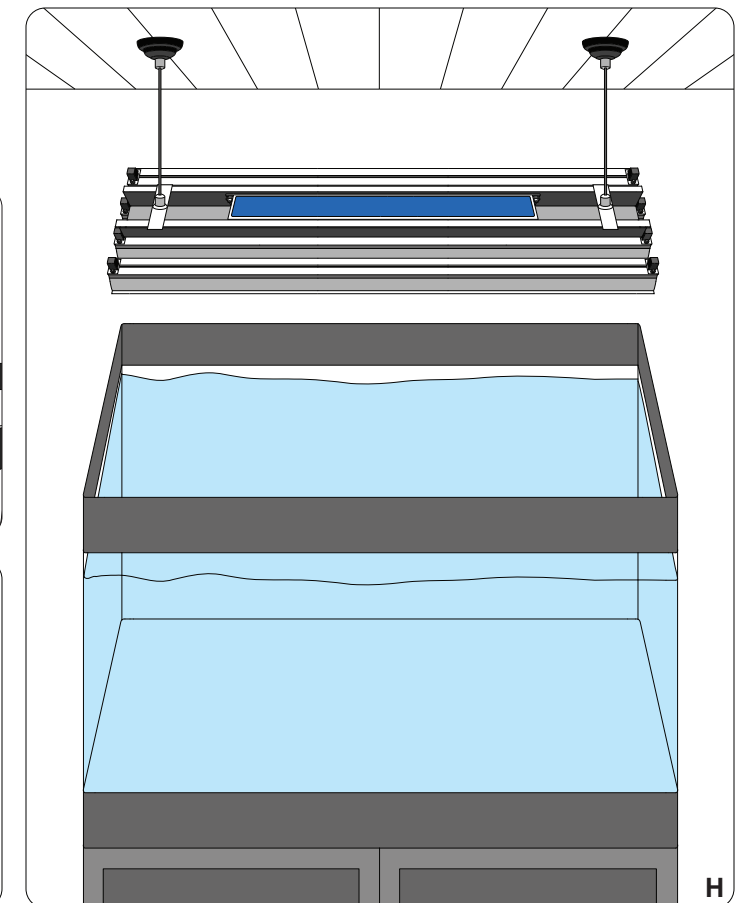
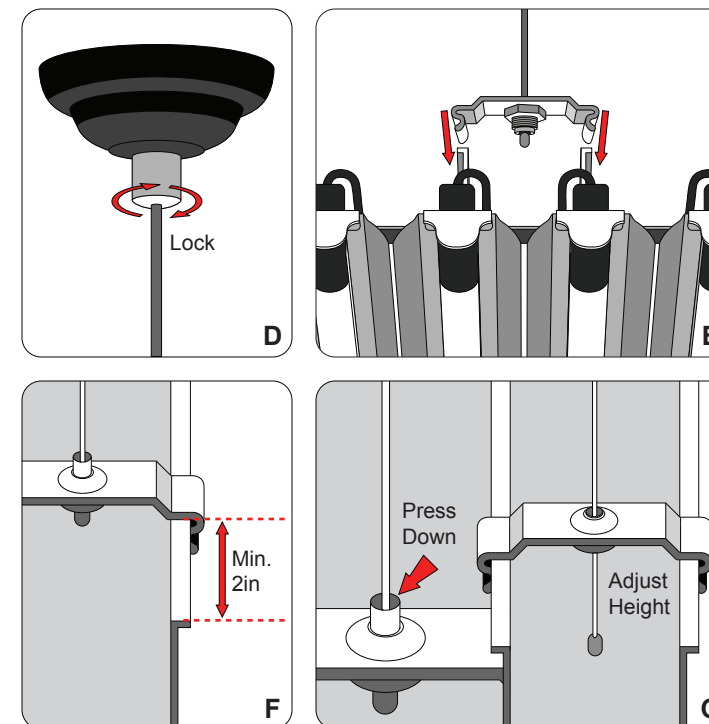
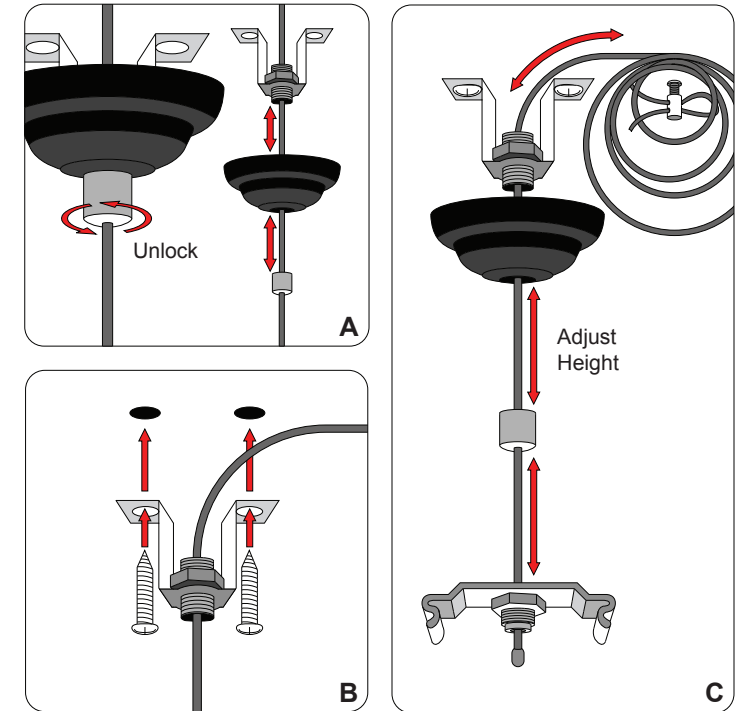
### NOTE:

- Only place in well ventilated canopy. This Retrofit Kit is intended to be above the aquarium. Do not place directly on top of any aquarium without using hangers or canopy mounting bracket. Do not place above the aquarium without a glass top.
- Use and/or consult a professional electrician or general contractor for installation

## INSTALL TO THE CEILING

Additional hardware and tools required:  
Anchors, drill and a screwdriver.

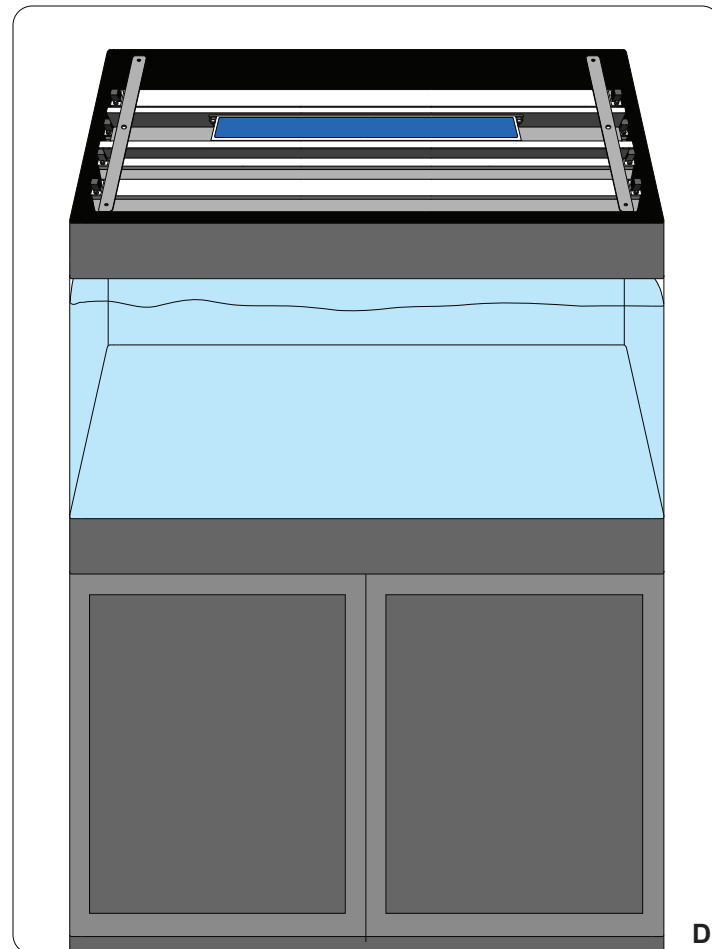
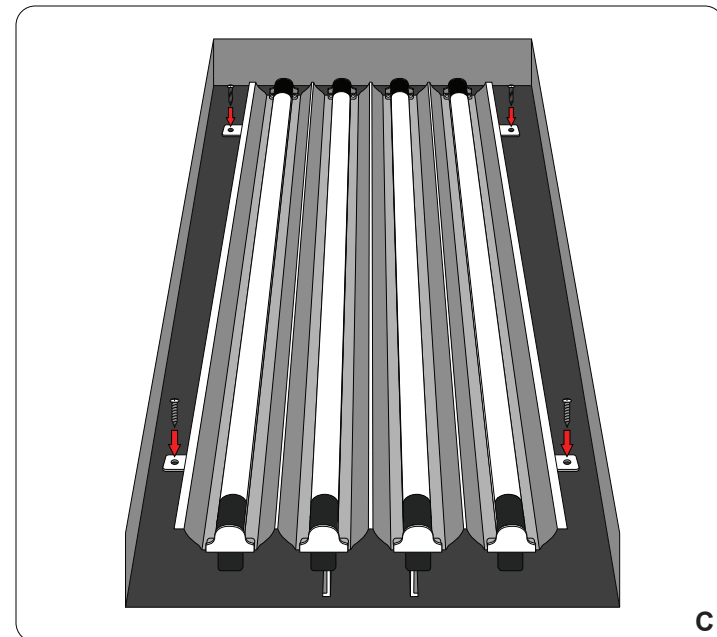
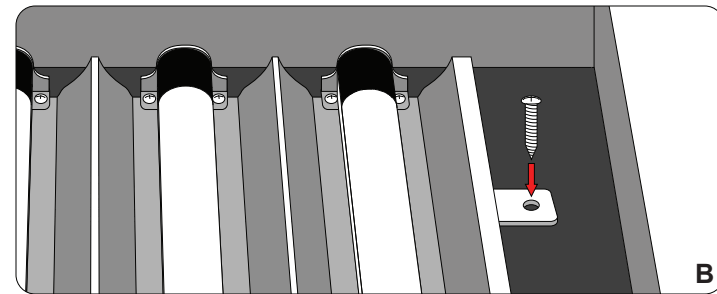
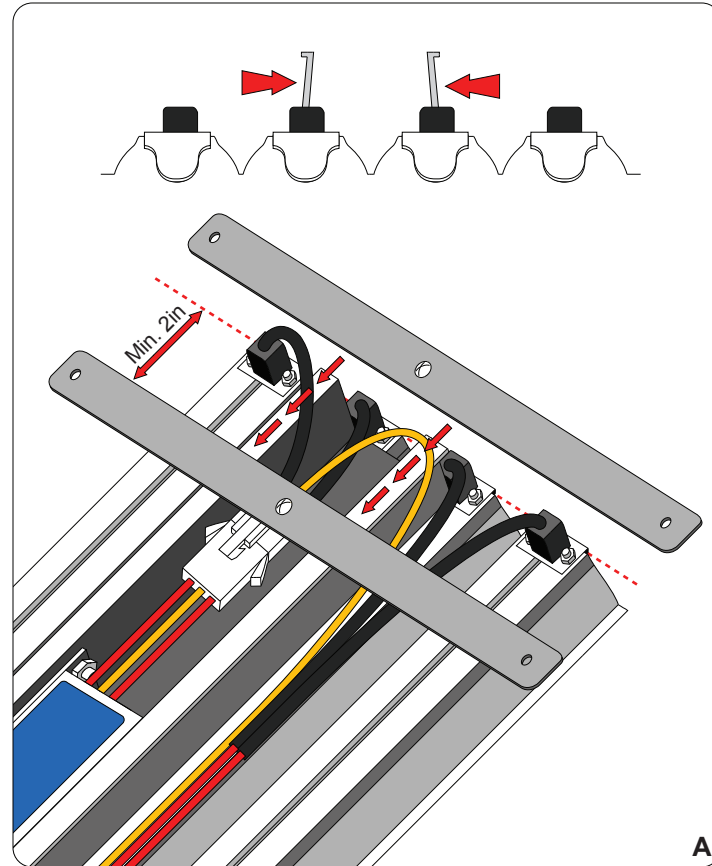
1. Undo lock nut. (A)
2. Locate a wood beam in the ceiling. Using the mounting brackets drill 2 pilot holes in the intended locations. Secure directly to the wood beam. (B)  
NOTE: If using anchors to secure in the mounting brackets and light Retrofit Kit. Use and follow the directions provided with the anchors. If there are any questions or concerns consult a professional electrician or general contractor.
3. Adjust the length of the cable. Cut off or hide excess cable. Secure the end of the cable with the cable stop. (C)
4. Lock the lock nut. (D)
5. Slide mounting bracket onto the track (E). Position them equal distance from the edge. Slide bracket in a minimum of 2in from the edge of the track. (F)  
Note: Unit must be disconnected from the power.
6. To level the Retrofit Kit adjust hanging wire to the desired height by pressing the wire outlet in and sliding cable in and out. (G)
7. Connect power supply cord to the Retrofit Kit.
8. Plug directly to a GFCI outlet.



**INSTALL ON THE CANOPY**

Additional hardware and tools required:  
4 screws and a screwdriver.

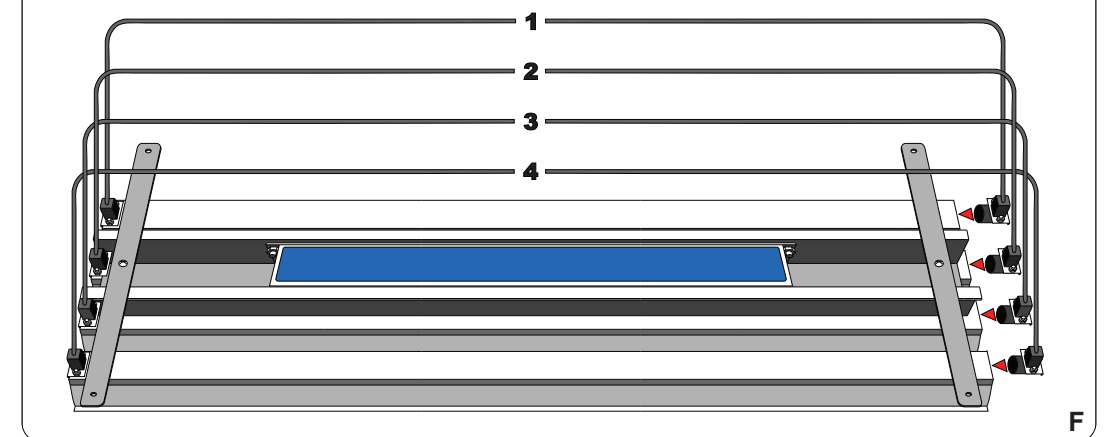
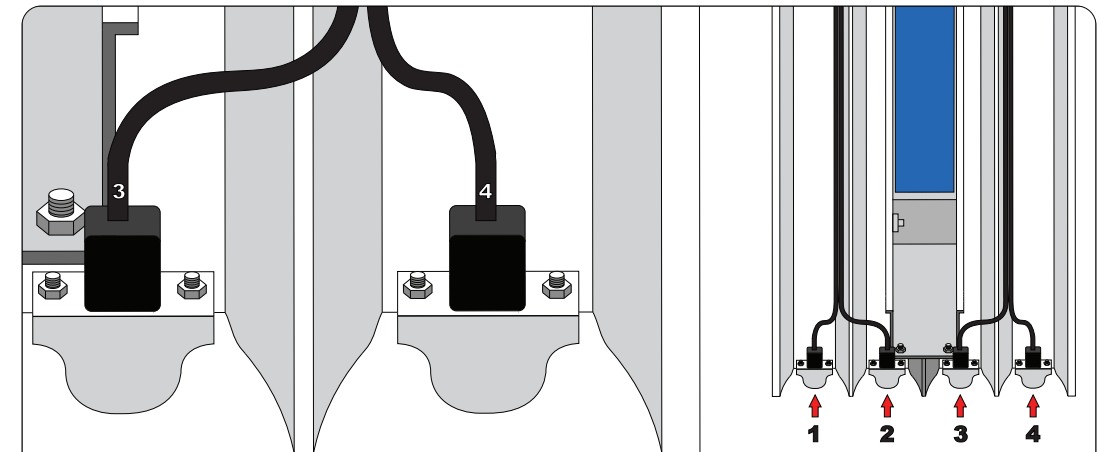
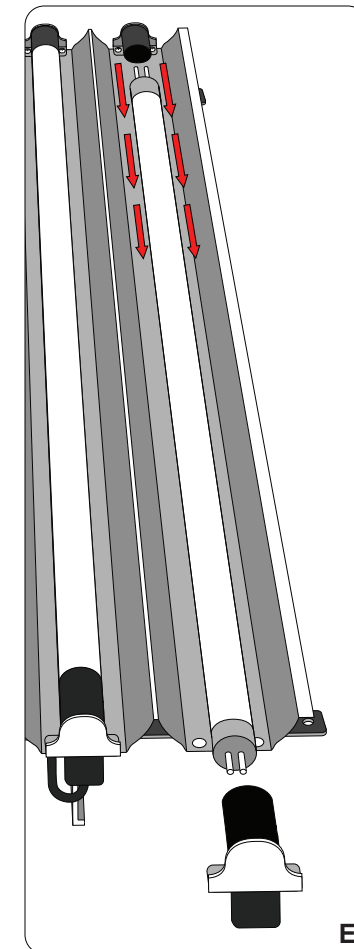
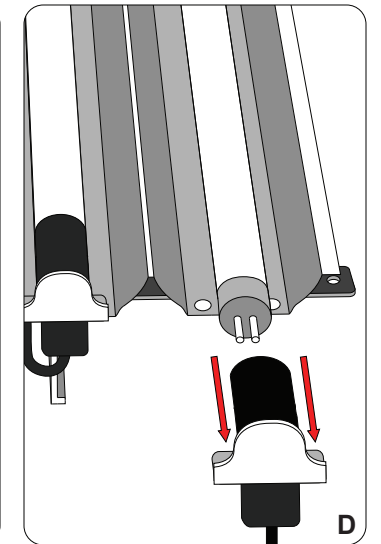
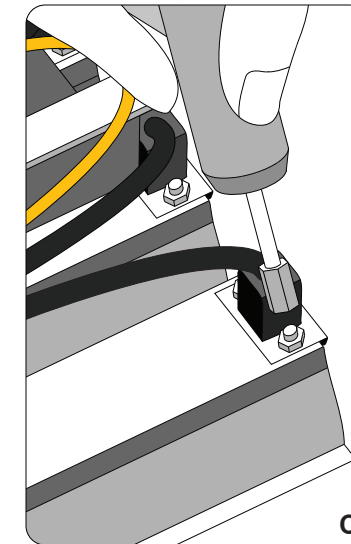
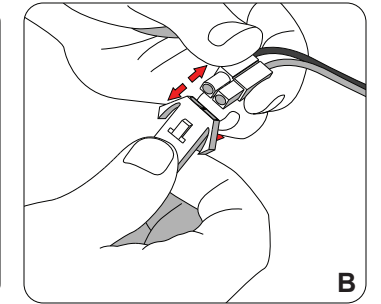
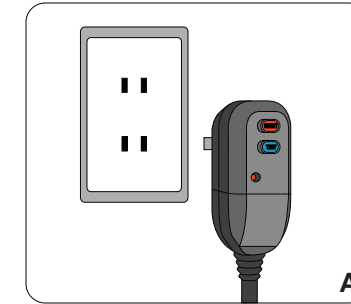
1. Slide canopy mounting brackets (10in) onto the track. Position them equal distance from the edge of the Retrofit Kit. Slide bracket in a minimum of 2" from the edge of the track. (A)
2. Verify the screws purchased do not penetrate all the way through the canopy.
3. Screw Retrofit Kit into canopy. (B & C)
4. Verify that the Retrofit Kit is securely attached to the canopy.
5. Verify that all wiring is secured to canopy and all connections are free from moisture and or salt build up.
6. Connect power supply cord to the Retrofit Kit.
7. Plug directly to a GFCI outlet.



**BULB REPLACEMENT:**

Replace with genuine  
Tools required: Hex driver and a small Philips screwdriver.

1. Verify the unit is unplugged. (A & B)
2. Remove the screw and nuts securing the rubber endcap to the fixture. Endcaps only need to be removed from one side of the Retrofit Kit. (C)
3. Slide the endcap directly off the bulb. Avoid any twisting motion. (D)
4. Slide the old bulb out of the other endcap. (E)
5. Replace bulb: Align the pins on the bulb with the holes in the end cap and press directly into endcap. Avoid any twisting motion. Note: Endcap #1 on the right side of the Retrofit Kit must be plugged into endcap #1 on the left side of the Retrofit Kit. (F)
6. Replace screws and nuts
7. Reinstall Retrofit Kit
8. Plug directly into a GFCI outlet

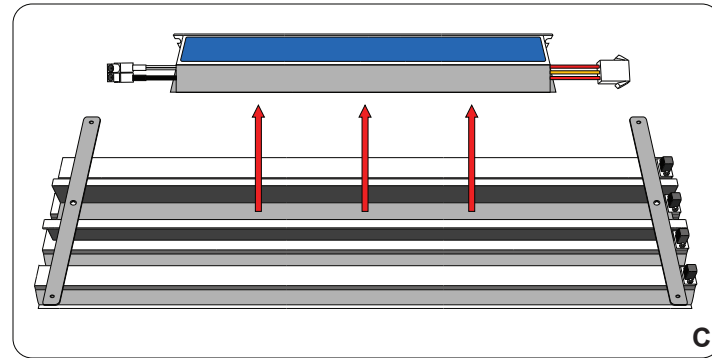
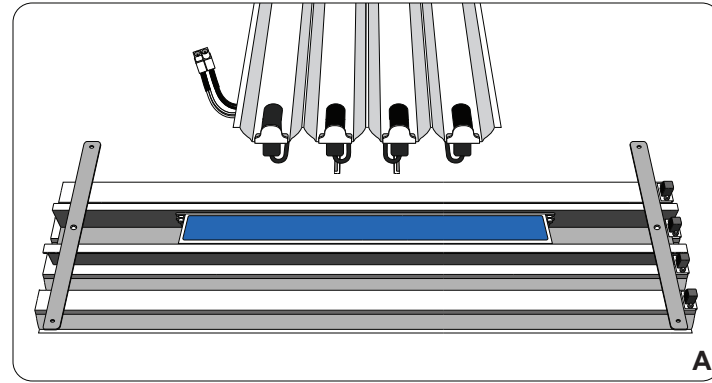
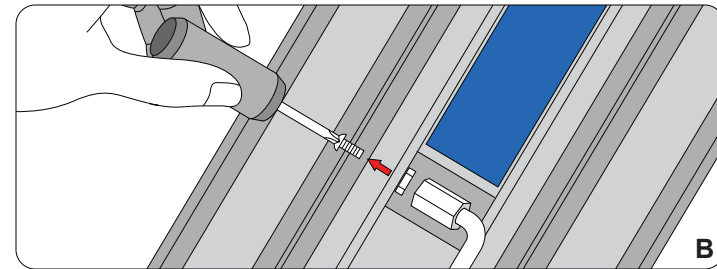


## MAINTENANCE (CONTINUE)

### BALLAST REPLACEMENT:

Tools required: Phillips screwdriver and 7mm hex driver

1. Unplug the unit from the receptacle.
2. Take out all lamp on the Retrofit Kit to avoid damaging the lamp and position the Retrofit Kit so that the ballast facing up. (A)
3. Disconnect the power supply.
4. Use 7mm hex driver to loosen both nuts and remove the ballast. (B)
5. Replace new ballast and reinstall lamps (C)
6. Verify the ballast and lamps are properly installed and are securely in place before reinstalling the Retrofit Kit.



## TROUBLESHOOTING

**PROBLEM:** All lamps will not light.

**SOLUTION:** Lamps in shipping have moved and are not making a proper connection. See Lamp replacement procedure for proper lamp installation.

**FOR QUESTIONS AND ANSWERS, VISIT OUR WEBSITE: [www.wave-point.com](http://www.wave-point.com)**

## REPLACEMENT LAMPS

COLOR	MODEL #	DESCRIPTION
COLOR WAVE® Optimum Color Enhancer	01004	24 watt COLOR WAVE® Optimum Color Enhancer HO T5 Lamp 21in
	01005	39 watt COLOR WAVE® Optimum Color Enhancer HO T5 Lamp 33in
	01006	54 watt COLOR WAVE® Optimum Color Enhancer HO T5 Lamp 45in
TROPICAL WAVE® Full Spectrum Daylight 6,500k	01007	24 watt TROPICAL WAVE® Full Spectrum Daylight 6,500k HO T5 Lamp 21in
	01008	39 watt TROPICAL WAVE® Full Spectrum Daylight 6,500k HO T5 Lamp 33in
	01009	54 watt TROPICAL WAVE® Full Spectrum Daylight 6,500k HO T5 Lamp 45in
SUN WAVE® Super Daylight 12,000k	01010	24 watt SUN WAVE® Super Daylight 12,000k HO T5 Lamp 21in
	01011	39 watt SUN WAVE® Super Daylight 12,000k HO T5 Lamp 33in
	01012	54 watt SUN WAVE® Super Daylight 12,000k HO T5 Lamp 45in
SUPERBLUE 460® Super Blue Actinic 460	01013	24 watt SUPERBLUE 460® Super Blue Actinic 460 HO T5 Lamp 21in
	01014	39 watt SUPERBLUE 460® Super Blue Actinic 460 HO T5 Lamp 33in
	01015	54 watt SUPERBLUE 460® Super Blue Actinic 460 HO T5 Lamp 45in
REEF WAVE® Super Violet O3 Actinic 420	01016	24 watt REEF WAVE® Super Violet O3 Actinic 420 HO T5 Lamp 21in
	01017	39 watt REEF WAVE® Super Violet O3 Actinic 420 HO T5 Lamp 33in
	01018	54 watt REEF WAVE® Super Violet O3 Actinic 420 HO T5 Lamp 45in
CORAL WAVE® Coral Growth Accelerator	01022	24 watt CORAL WAVE® Coral Growth Accelerator HO T5 Lamp 21in
	01023	39 watt CORAL WAVE® Coral Growth Accelerator HO T5 Lamp 33in
	01024	54 watt CORAL WAVE® Coral Growth Accelerator HO T5 Lamp 45in
ULTRA GROWTH WAVE® Plant and Reef Accelerator	01082	24 watt ULTRA GROWTH WAVE® Plant and Reef Accelerator HO T5 Lamp 21in
	01083	39 watt ULTRA GROWTH WAVE® Plant and Reef Accelerator HO T5 Lamp 33in
	01084	54 watt ULTRA GROWTH WAVE® Plant and Reef Accelerator HO T5 Lamp 45in

## 30 DAY PRODUCT GUARANTEE

- **If within 30 days of purchase** you experience any problems with this Wave Point® Technology product, **return it to the retailer** where purchased for replacement. Product must be returned in its original box, with all original parts and must be accompanied by the original receipt as proof of purchase.
- **Products beyond the 30 days of purchase** that experience problems **should NOT be returned to the retailer, supplier, or distributor**. These Wave Point® products fall under the auspices of the Wave Point® Technology 1 year limited direct manufacturer warranty. All such problems must be addressed directly with Wave Point® by the warranty holder (see below).

## 1 YEAR DIRECT MANUFACTURER LIMITED WARRANTY

- Wave Point® Technology Inc. products are warranted to all registered warranty product owners to be free of defect in materials and workmanship for one (1) year from date of purchase.
  - **URGENT: Fill out the warranty registration card included in this box** to activate registration in the Wave Point® limited warranty program. Warranty card must be completed and returned to Wave Point® Technology **within thirty (30) days of purchase** (see Warranty Card in page 11 ).
  - Under this program, Wave Point® Technology will, at its election, repair, replace or make appropriate adjustment where inspection by the Wave Point® company discloses any such defects occurring in normal usage within one (1) year after consumer purchase.
  - Only properly registered Wave Point® products are eligible for this warranty service.
  - After the 30 ( thirty ) day guarantee has expired, contact Wave Point® Technology directly for warranty product repair. Do NOT return such Wave Point® products to the retailer, distributor or supplier for repair or replacement.
  - Wave Point® Technology is not responsible for any removal, installation or shipping costs incurred in the warranty process.
  - Lamps are not covered under the 1 Year limited warranty.
  - Warranty is void if the failure of Wave Point® product or system or any part, sealant or component thereof is found to be caused by misuse, tampering, negligence, abuse, misapplication, failure to properly maintain the product, failure to keep dry (not to come in contact with water), salt build up, or use without Ground Fault Circuit Interrupter.
  - This warranty is non-transferable.
  - This warranty is limited to possible parts replacement and labor connected therewith. Wave Point® Technology is not liable for any incidental or consequential damages including but not limited to loss of life, personal injury, property damage, damage to equipment, or lost wages, income, profits or savings.
- Note: some US states do not allow liability limitations or exclusions on incidental or consequential damages to the extent listed in the above disclaimer. Check your local state regulations for details on regulations specific to your state.**

NOTE: WAVE POINT® TECHNOLOGY'S WARRANTY POLICY IS SUBJECT TO CHANGE WITHOUT NOTICE.

## OPTIONAL 3 YEAR PREMIUM EXTENDED WARRANTY

is available for purchase online at [www.wave-point.com/extendedwarranty.html](http://www.wave-point.com/extendedwarranty.html)

- Wave Point® Technology product owners may purchase our 3 Year Premium Extended Warranty online on our web site within 30 days of purchase prior to the expiration of the 30 Day Product Guarantee. This warranty covers all major parts and labor for 3 years from date of purchase.
- Costs are based on the equipment being placed under extended warranty. The costs for all extended warranty plans are available online on the web site.
- Lamps are not covered under 3 year extended warranty.
- For complete details and enrollment go to [www.wave-point.com/extendedwarranty.html](http://www.wave-point.com/extendedwarranty.html)

NOTE: WAVE POINT® TECHNOLOGY'S WARRANTY POLICY IS SUBJECT TO CHANGE WITHOUT NOTICE.

## RETURNING PRODUCTS FOR WARRANTY REPAIR

Contact Wave Point® Customer Support at [www.wave-point.com/helpdesk.html](http://www.wave-point.com/helpdesk.html) for all trouble shooting, warranty verification and return authorization numbers.

**NOTE: Products returned without Return Authorization Numbers will be refused.**

### Procedures:

#### I HAVE A COPY OF MY ORIGINAL COMPLETED WARRANTY CARD:

Wave Point® product owners seeking warranty resolution should return their Wave Point® product directly to the manufacturer along with:

1. Return Authorization Number clearly written on outside of box
2. Copy of warranty card with attached copy of original receipt as proof of purchase
3. Warranty holder's address, phone number and email address if different than listed on warranty card
4. Written explanation of problem

#### I DO NOT HAVE A COPY OF MY ORIGINAL COMPLETED WARRANTY CARD:

In the event you do NOT have a copy of your original completed Warranty Card you may choose instead to forward your full customer contact information and proof of purchase as listed below:

1. Return Authorization Number clearly written on outside of box
2. Copy of original receipt as proof of purchase
3. Warranty holder's name, address, phone number and email address
4. The Wave Point® serial number as listed on the product being returned
5. Written explanation of the problem

#### SEND TO:

Wave Point® Technology \*Email us at [info@wave-point.com](mailto:info@wave-point.com) for the updated address

Warranty Repair Desk  
300 South Lewis Rd. Unit J  
Camarillo, CA 93012

In the event Wave Point® products are returned for warranty work and are found to be outside the parameters of the warranty or otherwise caused by other than normal usage, the warranty holder will be contacted by phone or email and offered the option of (a) repair and return at the owner's expense, (b) return of the product to the owner "as is" at the owner's expense, or (c) disposal of the product.

Only prepaid freight returns will be accepted. All freight is the responsibility of the warranty holder.

NOTE: WAVE POINT® TECHNOLOGY'S WARRANTY POLICY IS SUBJECT TO CHANGE WITHOUT NOTICE.

## RETURNING PRODUCTS FOR OUT-OF-WARRANTY REPAIR

Wave Point® owners experiencing problems with a Wave Point® product no longer under warranty may send their Wave Point® product to Wave Point® Technology for repair.

For help with, or repair of, products no longer under warranty, contact Wave Point® Customer Support at [www.wave-point.com/helpdesk.html](http://www.wave-point.com/helpdesk.html) for trouble shooting tips and/or return authorization numbers. Products returned without a return authorization number will be refused.

### Procedures:

Wave Point® product owners seeking product repair should return their Wave Point® product directly to the manufacturer along with:

1. Return Authorization Number clearly written on outside of box
2. Owner's name, address, phone number and email address
3. The Wave Point® serial number as listed on the product being returned
4. Written explanation of problem

#### SEND TO:

Wave Point® Technology \*Email us at [info@wave-point.com](mailto:info@wave-point.com) for the updated address  
Repair Desk  
300 South Lewis Rd. Unit J  
Camarillo, CA 93012

All repair and shipping costs are the responsibility of the owner. Depending on the problem and/or cost, products are not always repairable. In such instances all shipping costs remain the responsibility of the owner.

If a Wave Point® product returned for repair is found to be either non-repairable or beyond a reasonable cost to repair, the owner will be contacted by Wave Point® and offered the option of either disposal of the product or return to the owner at the owner's expense.



Wave Point® Technology

www.wave-point.com

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# 1 YEAR LIMITED WARANTEE OWNER REGISTRATION CARD

## T5 4 Lamp Retrofit Kit

- Wave Point® product owners **MUST** register their purchase with Wave Point® Technology Inc. for their warranty benefits to be in effect. **Unregistered products are not eligible for warranty.**
- This warranty card must be completed and submitted within 30 days of product purchase.
- Send this completed form along with a copy of the original retail receipt as proof of purchase to:

Wave Point® Technology \*Email us at info@wave-point.com for the updated address  
Warranty Submissions Desk  
300 South Lewis Rd. Unit J  
Camarillo, CA 93012

### OWNER INFORMATION

Date \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State/Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Country \_\_\_\_\_

Email: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Work Phone: \_\_\_\_\_ Home PHone: \_\_\_\_\_

### PRODUCT INFORMATION

Product Serial Number: \_\_\_\_\_ Model No. \_\_\_\_\_

(NOTE: This is the digit number located on the PIN tag affixed to the unit)

Date of Purchase: \_\_\_\_\_

Seller (Retail Outlet): \_\_\_\_\_

Seller's Location: \_\_\_\_\_ Seller's Phone Number: \_\_\_\_\_

**\*Affix a copy of your original purchase receipt here**

**IMPORTANT: Please make a copy of this warranty card and retain it for your records.**





**Wave Point® Technology**

**[www.wave-point.com](http://www.wave-point.com)**

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