

**Please verify the contents of the packages!**

**Please read instructions entirely before starting installation.**

**Be sure power is turned off before installing or modifying the system.**

**Call Tivoli, LLC tech support with questions.**

**Caution:** Fiberstep™ Titanium is designed to work with listed Class 2 12V DC transformers only. Use of any other power source will cause damage, shorten the life of the fixture and void the warranty.

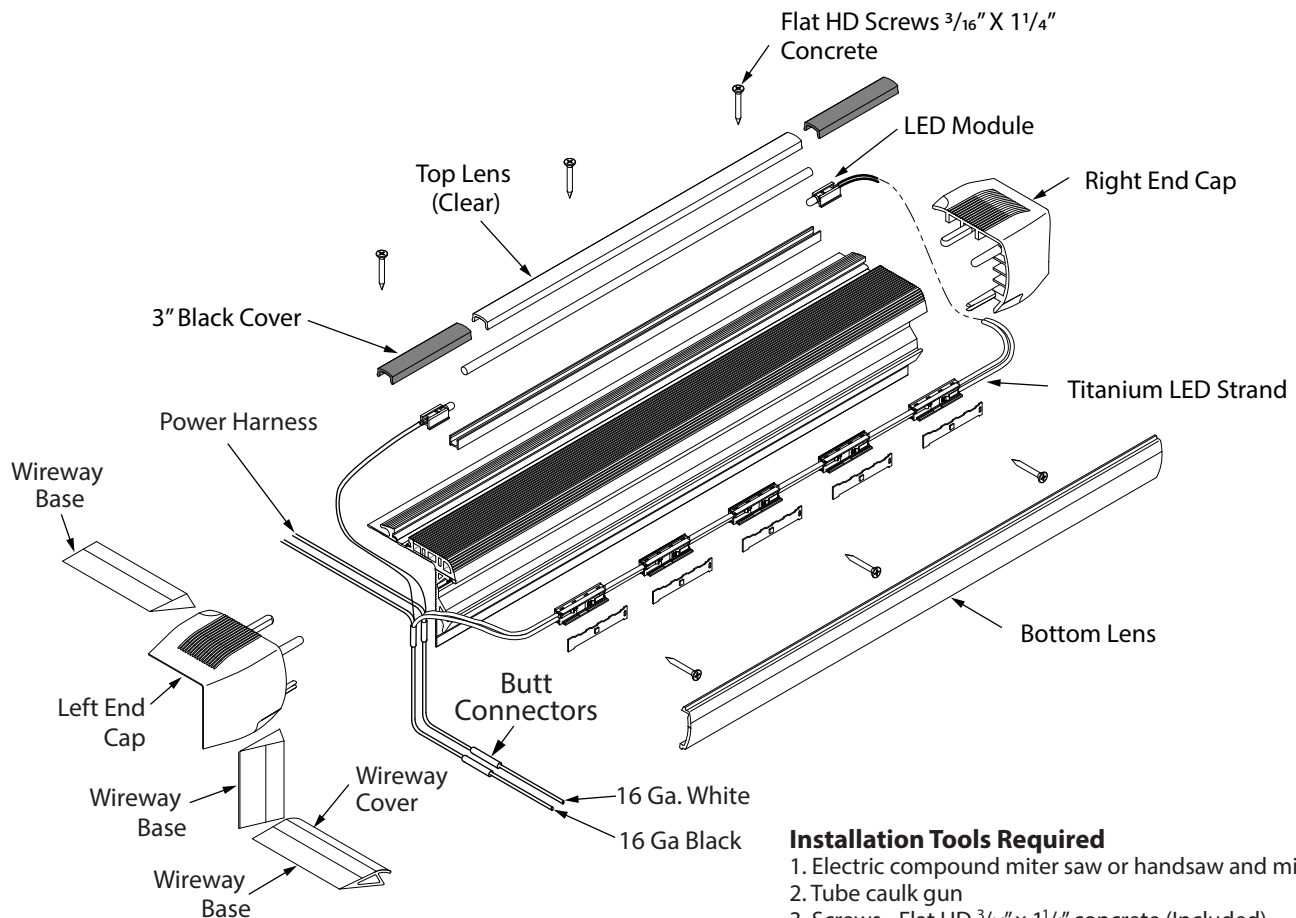
**Consult** any and all applicable local and national codes for installation.

**Do not** conceal or extend exposed conductors through a building wall as per local electrical code.

**Warning:** With any luminaire for any application, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This lighting system should be installed by a certified professional.



## Installation Instructions



### Installation Tools Required

1. Electric compound miter saw or handsaw and miter box
2. Tube caulk gun
3. Screws - Flat HD 3/16" x 1 1/4" (Included)
4. Extrusion Adhesive **ADH-MB-75AM-10**
5. End Cap Adhesive **ADH-5-CA**

## Installation Instructions

**NOTE:** Read all instructions entirely before installation. Call Tivoli, LLC with any questions. Install Softstep prior to carpet installation. Where there is no carpet, use optional Step Reducer to fill gap at back of tread. (See Specification Sheet for details)

**Step 1:** Be sure to clean all surfaces completely, using soap and water. Rinse and dry thoroughly.

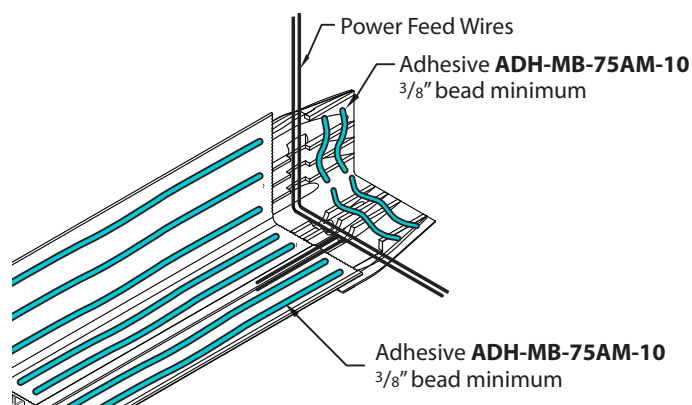
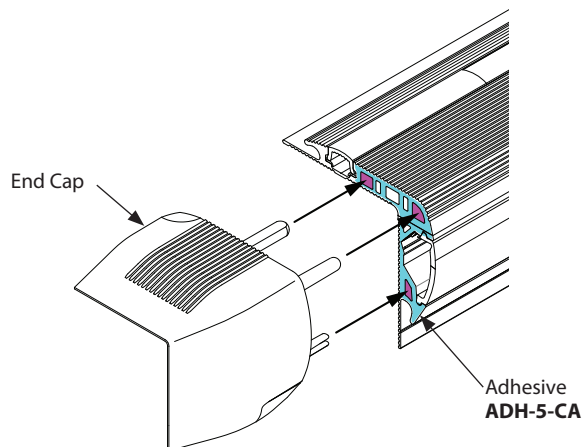
**Step 2:** Fiberstep™ Titanium is normally shipped with End Caps pre-assembled on step. However, in special circumstances the End Caps will need to be assembled on location. Apply adhesive **ADH-5-CA** to mounting surface and mounting holes and Insert male pins into cavities in Softstep™ as shown in diagram and install flush and tight to Softstep™.

**Step 3:** Apply required amount of adhesive **ADH-MB-75AM-10** to inside surface of the Softstep extrusion and to the underside of End Caps, as shown.

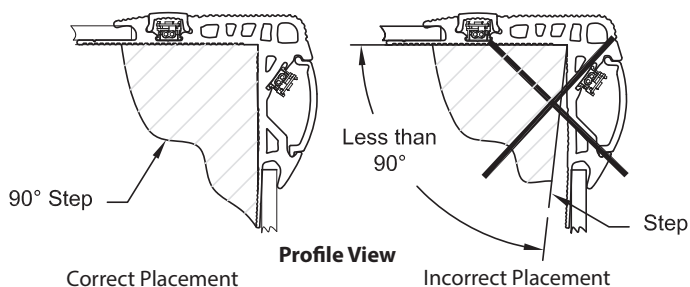
**Step 4:** Power feed wires should be positioned within the open wireway on the underside of the End Cap when Softstep is installed.

**Step 5:** Make certain that Fiberstep™ Titanium is held tight to the tread and riser surfaces (See "Required Field Conditions" below.)

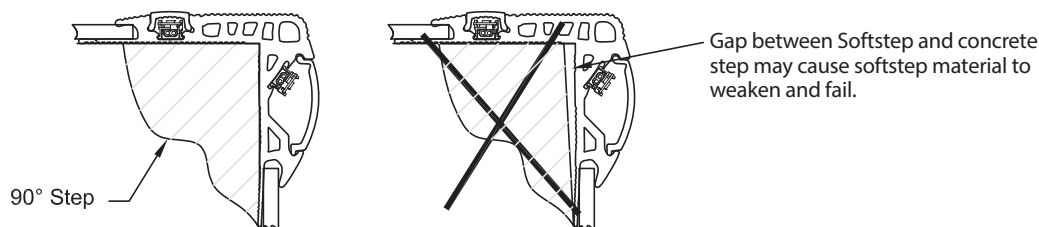
**⚠ WARNING! Risk of Product Damage.**  
This Step Light must be mounted on a 90° riser only. See "Required Field Conditions" below.



### Required Field Conditions



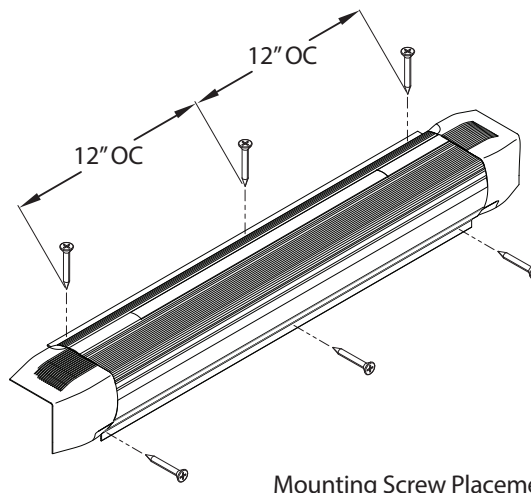
**Note:** If step riser is not 90°, consult factory.



## Installation Instructions (Continued)

**Step 6:** Apply screws (supplied) every 12" through the lip at the rear of the top of the step and through the lip at the bottom front of the step to allow adhesive to cure for at least 24 hours or as per manufacturer's instructions.

**Caution:** Do not overtighten screws. Overtightening the screws will damage the Softstep™.



Mounting Screw Placement

## Wire Size Selection

In order to operate Class 2 lighting system properly, it is important to select wires with the right gauge to minimize significant voltage drop. Following chart provides a reference for determining the wire size according to the maximum wire length from power supply to lighting fixtures.

12V Class 2 Lighting System	
Wire Gauge	Max. Linear Length Wire
18	90
16	95
14	100
12	105

## Install Wireway

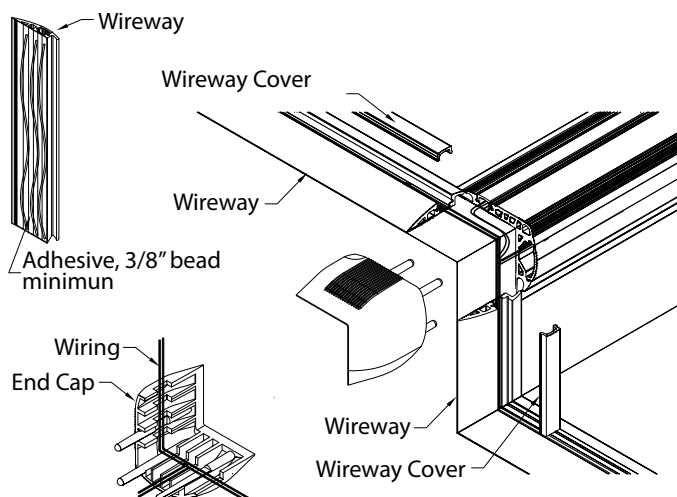
**Step 1:** Cut and miter wireway to desired length with wireway cover in place. After cutting, remove cover and use adhesive **ADH-MB-75AM-10** to glue wireway to floor surface. Tapcon 3/16" x 1 1/4" flat head screws to secure wireway is optional. Clean any excessive glue with denatured alcohol.

**Step 2:** Run power feed through wireway and make wiring connections, as shown. Be sure connection polarity is correct.

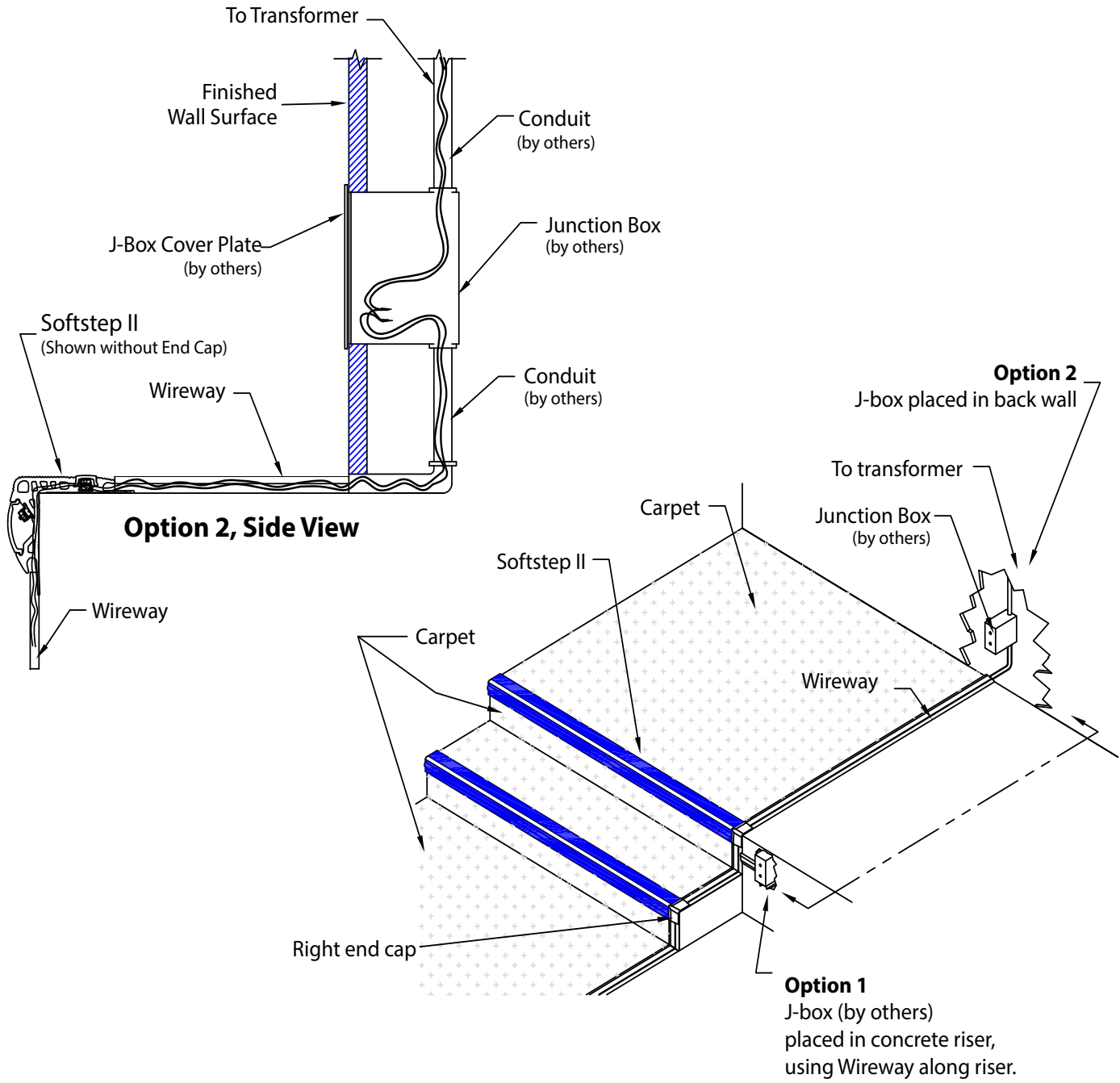
**Step 3:** Snap wireway into place.

**Step 4:** Connect to power source. Be sure wire is sized to compensate for voltage drop over distance and color coded for polarity accuracy. White wire is positive, Black wire is negative.

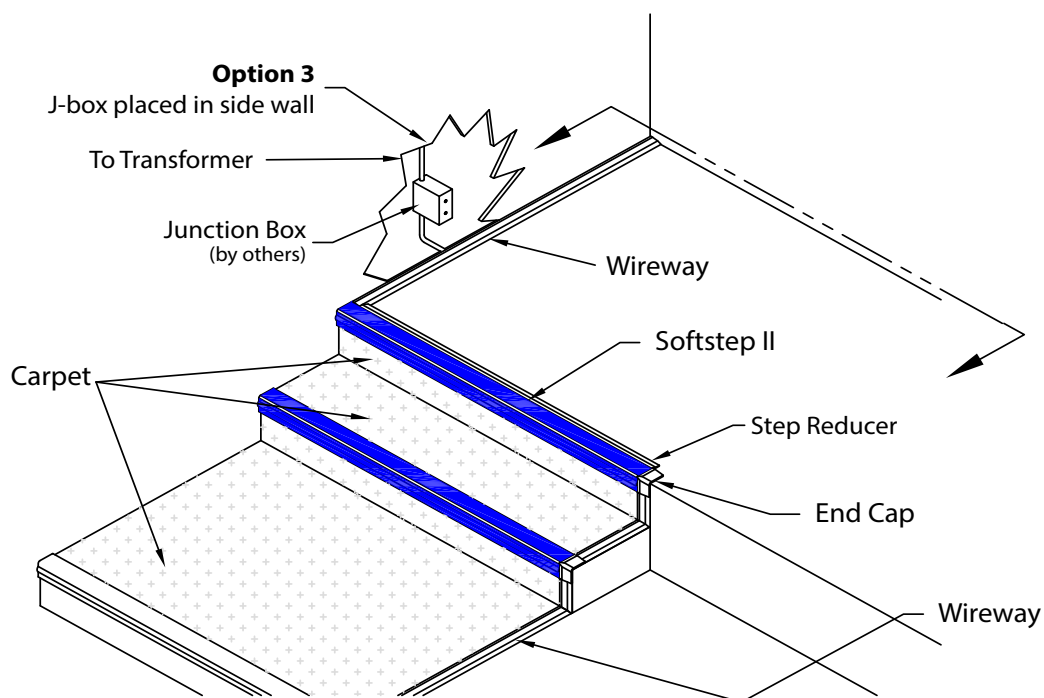
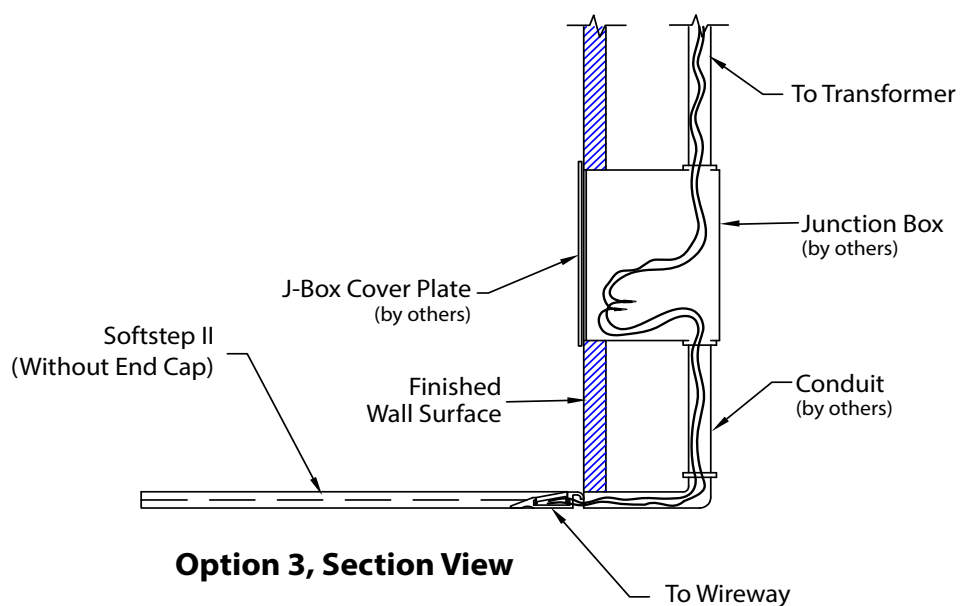
**NOTE:** LED lamps require Class 2 12V DC transformer. Be sure polarity is correct.



Power Feed Connections



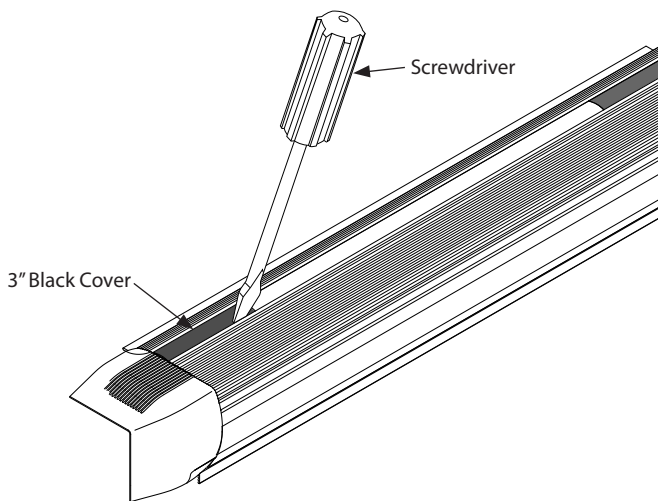
### Power Feed Connections



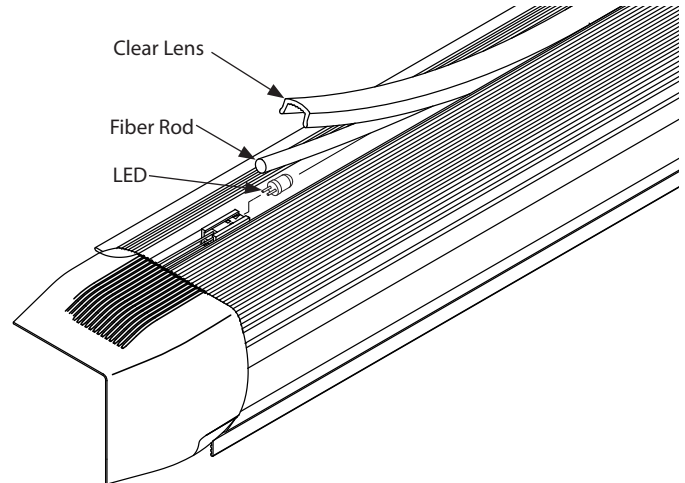
## Maintenance: Removing and Installing the Fiber Lens LED

**⚠ WARNING!** Danger of Electrical Shock. Be sure power is turned off before proceeding.

**Step 1:** Remove the 3" Black Cover. Use a thin blade screwdriver or a small Putty Knife to pry up the lens, as shown.



**Step 2:** Pull up the clear lens and pull up the Fiber Rod to make room to remove the LED. Pull the LED straight out of the socket, as shown.



**Step 3:** Install replacement LED by plugging lead wires directly into slots in Socket. Press Fiber Rod back down into position in the holder and press Lens down into position. Position 3" Lens over opening and press down into position.

**Step 4:** Restore power to the system.

## Removing and Installing the LED Board

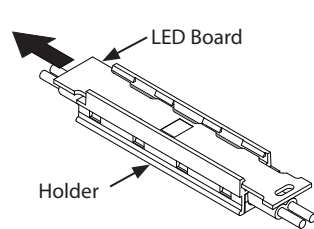
**⚠ WARNING!** Danger of Electrical Shock. Be sure power is turned off before proceeding.

**Step 1:** Slide board to the left as far as it will go. Insert a pointed object, such as a pen tip, into the slot at the end of the LED board to slide it more easily.

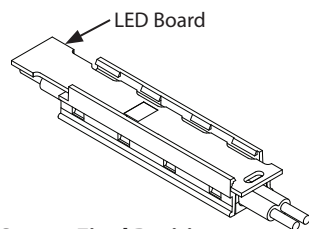
**Step 2:** Rotate top edge of board upward, as shown.

**Step 3:** Remove board.

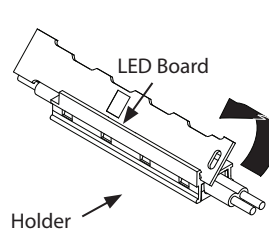
**Installation:** Reverse steps to install.



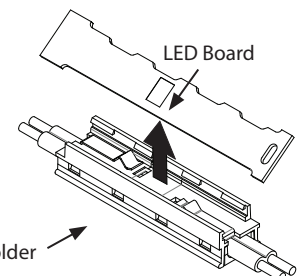
**Step 1: Starting Position**



**Step 1: Final Position**



**Step 2**



**Step 3**

## Replacing a Module Strand

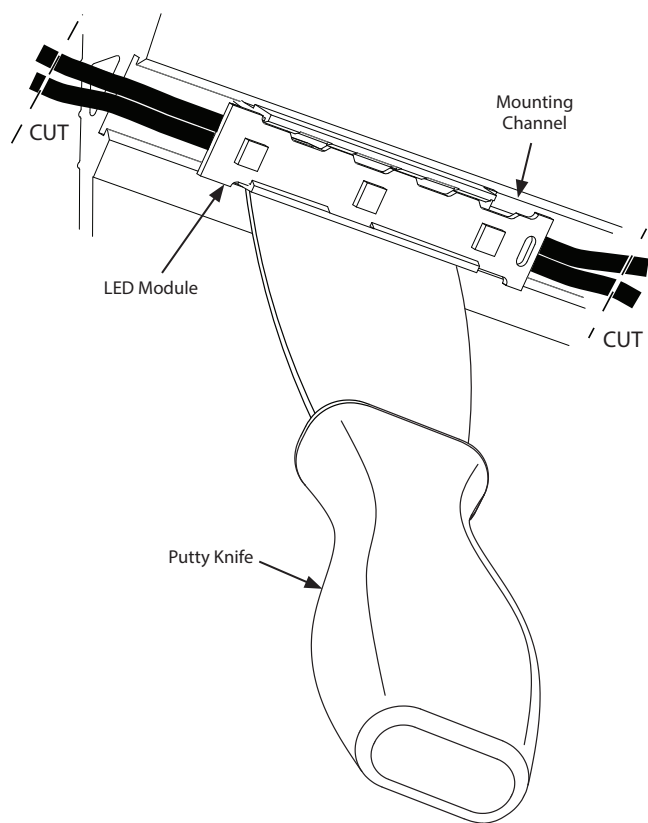
**⚠ WARNING!** Danger of Electrical Shock. Be sure power is turned off before proceeding.

**Step 1:** Turn off power to Fiberstep™ Titanium.

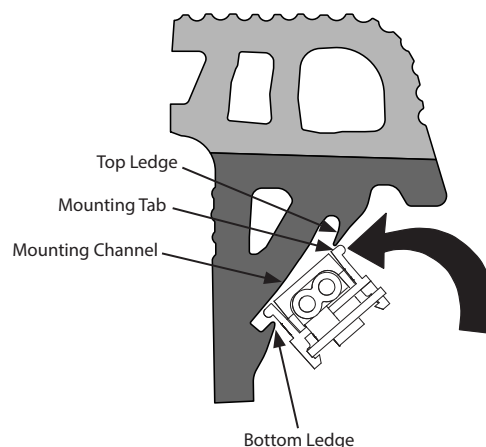
**Step 2:** Remove Lower Lens by prying up along top edge of lens using a thin blade screwdriver or a narrow Putty Knife. Start at one end and work along lens until it can be pulled off by hand.

**Step 3:** Cut the wires outside either end of the defective section of the light strand, as shown.

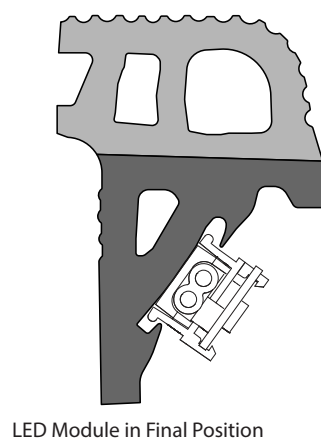
**Step 4:** Position a Putty Knife between the LED module and the mounting channel. Gently pry the LED module up and out of the channel.



**Step 5:** Position replacement LED Module Strand in mounting channel with one mounting tab under the ledge of the channel on one side, as shown. Rotate the module down until it makes contact with the opposite ledge of the mounting channel.



**Step 6:** Position the Putty Knife on the mounting tab and press the module gently into the channel until the mounting tab snaps into place under the ledge of the mounting channel.



**Step 7:** Repeat installation process for all new modules in the strand.

**Step 8:** Use Butt Connectors for 18ga wire to connect the wiring on the replacement strand to the existing strand wiring.

**Step 9:** Replace the lens.

**Step 10:** Re-establish power to the lighting system.