

TITAN LED Titan LED U.S.A. Tube **LIGHTING SOLUTIONS** Installation Guide

Thank You for your purchase of Titan LED's Linear LED lighting Tube. Please take a moment to read this guide and familiarize yourself with this incredible product. Please Observe All Safety Precautions Before Installation.

**CAUTION: DISCONNECT ALL A/C POWER BEFORE TUBE LIGHT
INSTALLATION!**



NOTICE: PLEASE ADHERE TO ALL WARNINGS BELOW



ATTENTION: Titan LED Tube retrofit kits are intended for direct replacement of T8, T10 and T12 fluorescent tubes Only. It is Necessary to modify the existing lighting Fixture by Removing the Ballast. The Titan LED Retrofit Kit Requires 120-277V A/C wiring of the included Titan LED Driver Component into the fixture. Titan LED tube lights are intended to be installed on either a surface mount or a recessed mount fixture that is designed to accept traditional Fluorescent linear tubes of varying lengths. The G-13 Tombstones after completion will no longer serve the purpose of providing power or mounting to the Titan tube light

WARNING: Risk of Fire or Electric Shock. This Product requires electrical input of 120-277Volts A/C to be supplied to the included Titan LED Driver Retrofit Kit Component. The Titan LED Tube then connects to the Titan LED Driver Component with a Single End Proprietary Connection.

WARNING: Risk of Fire or Electric Shock. LED Retrofit Kit installation requires knowledge of lighting fixtures and electrical systems is necessary. If not qualified, DO NOT ATTEMPT INSTALLATION! Damage to product, wiring, driver and electrical components may occur if retrofit is not performed by a qualified electrician.

WARNING: To Avoid Risk of Fire or Electric Shock, this product requires A/C electrical input of 120-277 Volts to supply current to external LED driver.

WARNING: To Avoid Risk of Fire or Electric Shock or Damage. Caution must be exercised and guidelines strictly followed when modifying any lighting fixture.

WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

WARNING: Risk of fire or electric shock. Light fixture wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.

WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit in fixtures employing shunted bi-pin lamp holders. Note: Shunted lamp holders are found only in fluorescent fixtures with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED Fixture retrofit kit manufacturer .

WARNING: Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.

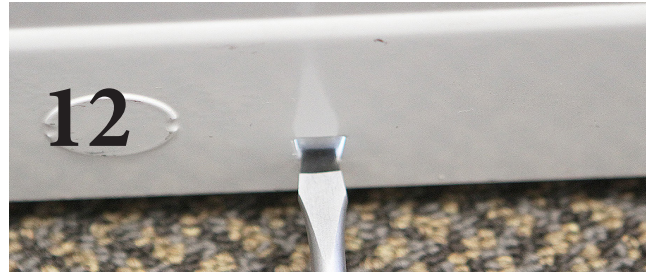
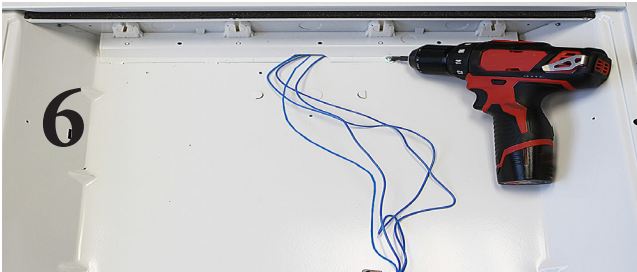
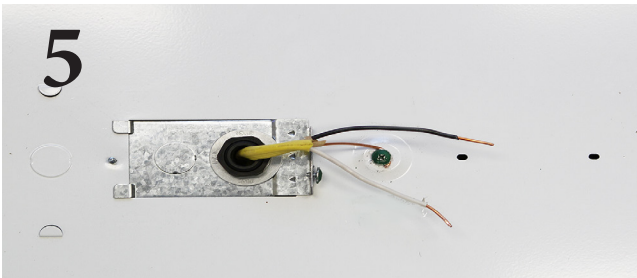
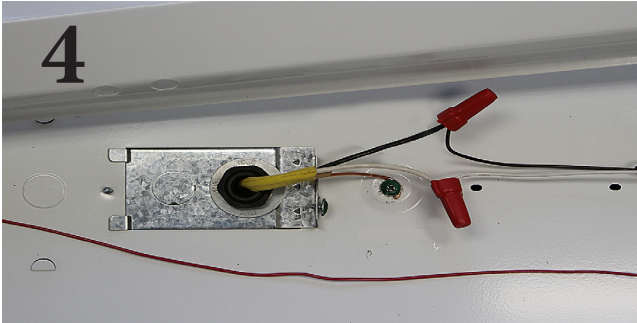
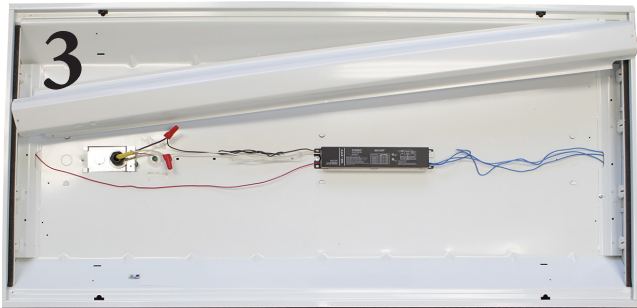
Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.

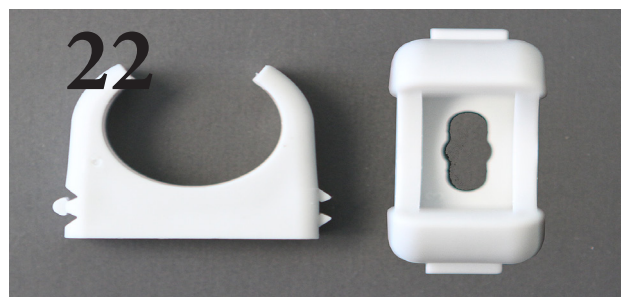
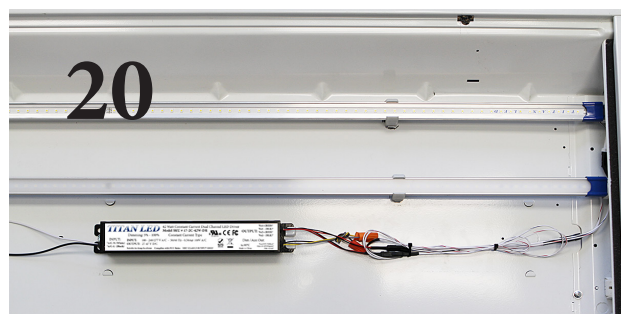
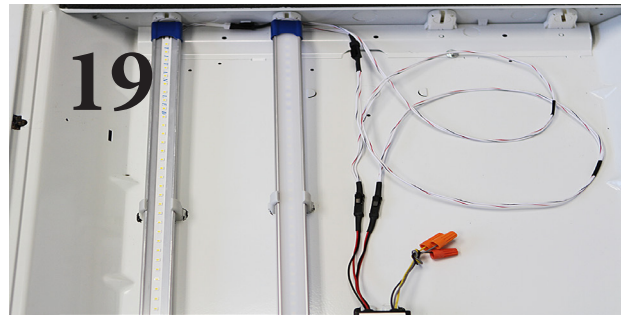
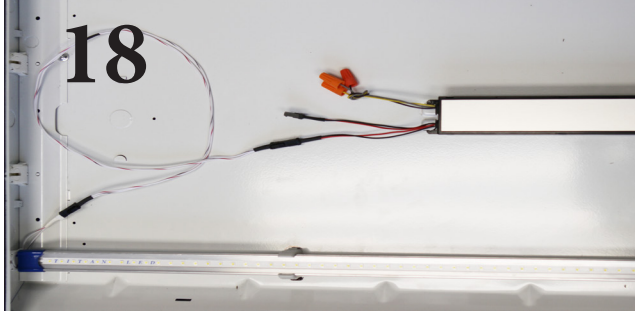
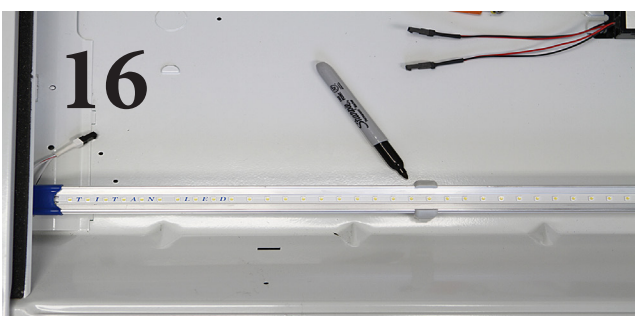
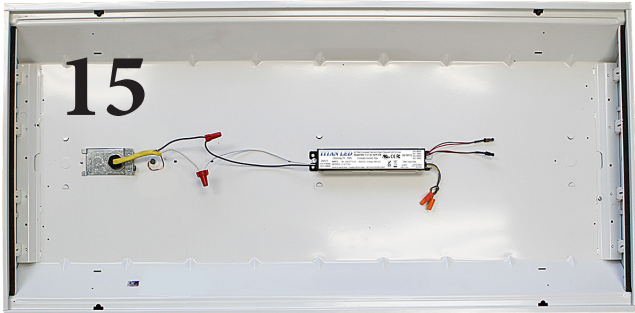
THIS LIGHTING PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE INSTALLATION CODES AND BY A PERSON FAMILIAR WITH STATE ELECTRICAL CODES AND PROPER A/C LOAD CONNECTION. THIS QUALIFIED PERSON IS AWARE OF ALL HAZARDS INVOLVED AND ASSUMES RESPONSIBILITY FOR ADHERING TO PROPER INSTALLATION & SAFETY REQUIREMENTS.

Titan LED's, LED Tube Retrofit Kit Installation Instructions.

Please Follow These Instructions Carefully!

- 1) Traditional Lighting Fixture (Before Retrofit)
- 2) Remove Decorative Frame with Diffuser Lens
- 3) Remove Wire way Covering to expose Ballast and Wiring.
- 4) Disconnect Ballast from incoming A/C Power.
- 5) Leave A/C Grounding (green) wire connected to fixture.
- 6) Remove G13 Tombstone securement Screws on both ends of Fixture.
- 7) With a flat screwdriver carefully bend securing tabs that hold the metal plate that secure the G13 Tombstone Connectors.
- 8) Once Tabs are bent flush with rear wall of fixture and screw removed, tilt metal plate that secures G13 Tombstone's forward and release the plate from the slotted tabs.
- 9) Rotate Metal G13 Securement plate forward to expose wiring going into G13 Tombstones.
- 10) Cut Wire or Wires from each G13 tombstone as close as possible.
- 11) It is also possible on SOME G13 tombstones to depress a tab and release the wire's to remove them. Result should look similar to Picture #11 with wires closely cut or removed. Repeat this Process for ALL G13 Tombstones.
- 12) Replace the Metal G13 securement plate into slotted tabs, Replace the Screw's that hold the plates in place and Bend Securing Tabs Back into original position.
- 13) Secure Both of the G13 Securement Metal plates on each end of the fixture back into their original positions. Fixtures Tombstones after completion will no longer supply power or mounting capabilities to the Titan LED Tube.
- 14) The Lighting Fixture is now ready to install the Titan LED Tube Retrofit Kit.
- 15) Secure The Titan LED Power Supply, (LED Driver). Connect Titan LED Driver To Incoming A/C Power.
- 16) Using some form of measurement tool Carefully Install Titan LED Clips into top surface of fixture or ballast cover. Make sure these clips are securely fastened with a spacing of approximately 5 inches in from end of fixture. Only Use appropriately sized sheet metal screws as they will be used to mount the Titan LED Tube. Also make sure screws are not too long as to not puncture any internal components.
- 17) Install each Titan LED Tube Light into the Titan LED Clips, Twist Carefully to lock the Titan LED Tube into the Two Titan LED Clips.
- 18) Connect The Single End Powered Titan LED Tube to Titan LED's Power Supply, (LED Driver) Using the included Titan LED Connection Cable, One Cable Per Tube.
- 19) It is suggested to Cleanly route wires towards center (Wire way) and neatly Tie strap them together.
- 20) The step above will Make it much easier to not pinch any wires while replacing Decorative Wire way Cover. Replace Decorative Wire way Cover. Replace Decorative Frame with Diffuser Lens. Restore A/C Power. Great Job you have just completed the Titan LED, LED Tube Light Retrofit. Flip the switch and enjoy the Incredible light and energy savings.
- 21) Photograph of the Titan LED Retrofit Clips included in Kit.





Titan LED's Platinum Series Tube Light Retrofit Kit

TITAN LED Titan LED U.S.A. Tube Installation Guide

Thank You for your purchase of Titan LED's latest LED Lighting Tube. Please take a moment to read this guide and familiarize yourself with this valuable product. Please Observe All Safety Precautions before installation.

CAUTION: DISCONNECT ALL A/C POWER BEFORE TUBE LIGHT INSTALLATION!

NOTICE: PLEASE ADHERE TO ALL WARNINGS BELOW

WARNING: Titan LED Tube retrofit kits are intended for direct replacement of T8, T10 and T12 fluorescent tubes. Check to see if necessary to modify the existing lighting fixture by removing the ballast. The Titan LED Retrofit Kit requires 120-277V A/C wiring of the included Titan LED Driver Component into the fixture. Titan LED tube lights are intended to be installed in either a standard recessed or a recessed recessed fixture that is designed to accept traditional fluorescent fixture tubes of varying lengths. The G13 Tombstones after kit completion will serve the purpose of mounting the new tube only.

WARNING: Risk of Fire or Electric Shock. This product requires electrical input of 120-277Vrms A/C to be accepted by the included Titan LED Driver Retrofit Kit Component. The Titan LED Tube then connects to the Titan LED Driver Component with a Single End Propagatory Connection.

WARNING: Risk of Fire or Electric Shock. LED Retrofit Kit installation requires knowledge of lighting fixtures and electrical systems is necessary. If not qualified, DO NOT ATTEMPT INSTALLATION! Damage to product, wiring, driver and electrical components may occur if retrofit is not performed by a qualified electrician.

WARNING: To Avoid Risk of Fire or Electric Shock, this product requires A/C electrical input of 120-277 Volts to supply correct electrical LED driver.

WARNING: To Avoid Risk of Fire or Electric Shock or Damage, Caution must be exercised and guidelines strictly followed when modifying any lighting fixture.

WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

WARNING: Risk of Fire or Electric Shock. This product requires to pin lamp holders for the purpose of mounting. Only To ensure correct installation of Titan LED Tube, always verify high fluxor utilizes G13 Bi-Pin connector design only!

WARNING: Risk of fire or electric shock. Light fixture wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for unbroken wiring and components.

WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit in fixtures employing shunted bi-pin lamp holders. Note: Shunted lamp holders are found only in fluorescent fixtures with luminescent ballasts. Luminescent ballasts can be identified by the words "luminescent" or "LS" marked on the ballast. This designation may be in the form of a rectangle protruding to the ballast lead or may be combined with the marking for the lamp with which the ballast is intended to be used, for example F40T12SL. For more information, contact the LED Fixture retrofit kit manufacturer.

WARNING: Do not touch or alter any open holes in an enclosure or wiring or electrical components during kit installation. Only those open holes indicated in the photograph and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.

Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead, installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.

THIS LIGHTING PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE INSTALLATION CODES AND A PERMITTED QUALIFIED ELECTRICIAN CONSULT AND PROVIDE A QUALIFIED CONNECTION. THIS QUALIFIED PERSON IS AVAILABLE TO ALL JURISDICTIONS INVOLVED AND ASSUMES RESPONSIBILITY FOR ADHERING TO PROPER INSTALLATION AND SAFETY REQUIREMENTS.

4980 In-Div Unit #100, Silos Valley, Ca 95031 • www.titanled.net
All logos and information are Property of Titan LED Inc. 2014 and may Only be used by permission. PAGE 1 of 2

TITAN LED Installation Note

LED RETROFIT KIT IS A RECESSED FIXTURE KIT. IT IS NOT DESIGNED TO BE USED IN A RECESSED FIXTURE THAT IS NOT DESIGNED TO ACCEPT TRADITIONAL FLUORESCENT FIXTURE TUBES OF VARYING LENGTHS. THE TITAN LED RETROFIT KIT IS NOT DESIGNED TO BE USED IN A RECESSED FIXTURE THAT IS NOT DESIGNED TO ACCEPT TRADITIONAL FLUORESCENT FIXTURE TUBES OF VARYING LENGTHS. THE G13 TOMBSTONES AFTER KIT COMPLETION WILL SERVE THE PURPOSE OF MOUNTING THE NEW TUBE ONLY.

WARNING: Risk of Fire or Electric Shock. This product requires electrical input of 120-277Vrms A/C to be accepted by the included Titan LED Driver Retrofit Kit Component. The Titan LED Tube then connects to the Titan LED Driver Component with a Single End Propagatory Connection.

WARNING: Risk of Fire or Electric Shock. LED Retrofit Kit installation requires knowledge of lighting fixtures and electrical systems is necessary. If not qualified, DO NOT ATTEMPT INSTALLATION! Damage to product, wiring, driver and electrical components may occur if retrofit is not performed by a qualified electrician.

WARNING: To Avoid Risk of Fire or Electric Shock, this product requires A/C electrical input of 120-277 Volts to supply correct electrical LED driver.

WARNING: To Avoid Risk of Fire or Electric Shock or Damage, Caution must be exercised and guidelines strictly followed when modifying any lighting fixture.

WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

WARNING: Risk of Fire or Electric Shock. This product requires to pin lamp holders for the purpose of mounting. Only To ensure correct installation of Titan LED Tube, always verify high fluxor utilizes G13 Bi-Pin connector design only!

WARNING: Risk of fire or electric shock. Light fixture wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for unbroken wiring and components.

WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit in fixtures employing shunted bi-pin lamp holders. Note: Shunted lamp holders are found only in fluorescent fixtures with luminescent ballasts. Luminescent ballasts can be identified by the words "luminescent" or "LS" marked on the ballast. This designation may be in the form of a rectangle protruding to the ballast lead or may be combined with the marking for the lamp with which the ballast is intended to be used, for example F40T12SL. For more information, contact the LED Fixture retrofit kit manufacturer.

WARNING: Do not touch or alter any open holes in an enclosure or wiring or electrical components during kit installation. Only those open holes indicated in the photograph and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.

Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead, installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.

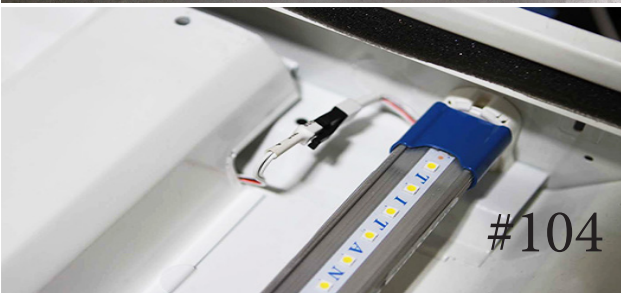
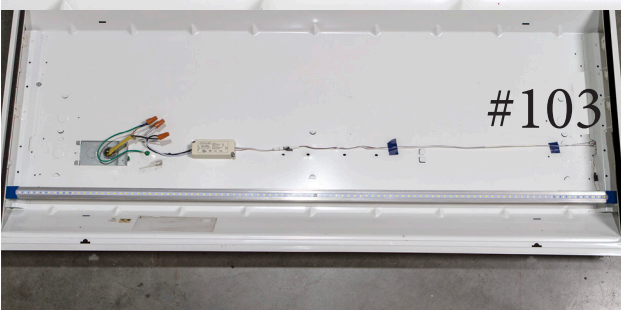
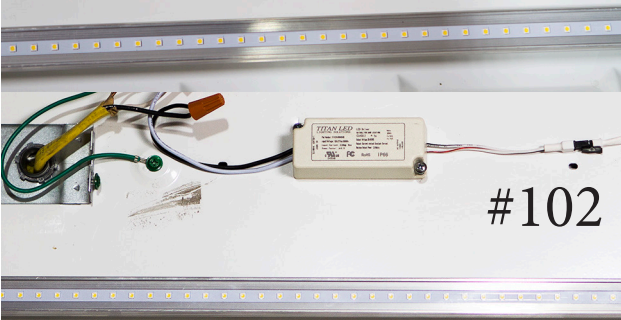
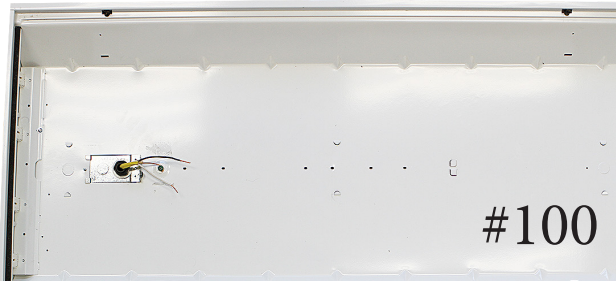
THIS LIGHTING PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE INSTALLATION CODES AND A PERMITTED QUALIFIED ELECTRICIAN CONSULT AND PROVIDE A QUALIFIED CONNECTION. THIS QUALIFIED PERSON IS AVAILABLE TO ALL JURISDICTIONS INVOLVED AND ASSUMES RESPONSIBILITY FOR ADHERING TO PROPER INSTALLATION AND SAFETY REQUIREMENTS.

4980 In-Div Unit #100, Silos Valley, Ca 95031 • www.titanled.net
ATTENTION DO NOT REMOVE THIS TICKER

Installation of the Titan LED Hennessy or Platinum Series Tube Light Driver Retrofit Driver Installation for Models (4 ft.) 17-PK2-4-16 and 17-PK3-4-16

ATTENTION:

This Titan LED Tube Driver Installation Section assumes you have read All Previous Installation instructions contained Within this Guide, (PLEASE Complete Steps 1-14 First) To Prepare Tube Type Lighting Fixture For Titan LED Retrofit Kit. This Guide Also Presumes You have Read ALL Pre-cautions and Warnings contained within the Previous Sections of this installation Instruction Set.



Step A

When Installation Steps 1-14 of This Installation Guide are completed, a Typical tube light drop in fixture will look similar to to the one illustrated in (Picture #100) Shown Left. The Example fixture shown is now prepped and ready for the Installation of the Titan LED Single Channel Kit Driver.

Step B

Mount the Titan LED Driver Securely to the Metal back plate of the fixture using self tapping Metal Screws.

(Picture #101)

To Ease reassembly Mount in or near the spot where you removed the existing ballast, typically down the center of the fixture. (Picture #102) Make sure to check the length of your AC leads and mount the driver near the AC inputs. This will make the reinstallation of the raceway/decorative wiring cover trouble free.

Step C

After checking the Proper Securement of the Titan LED driver to the fixture housing, Properly reconnect the A/C Power Wire Leads. Black is + Load, White is - Neutral.

It is recommended to secure any loose wiring, creating a clean harness down the center of fixtures raceway. (Picture #103) Electrical tape can be used to hold the Titan Quick Connect wire whip centered while replacing the raceway/decorative cover.

Step D

Carefully Replace the raceway / decorative Cover. Visually Inspect cover making sure all wiring is contained neatly under the raceway / decorative cover.

Step E

Install The Titan Platinum Series Tube Light by mounting it into the Fixtures Titan LED clips. (Refer to steps #16 - 18 Of this Guide for clip installation.) Remember these Sockets are no longer connected. Connect the wire whip end that was fed under the raceway to the Quick connect that is on one end of the Titan LED Tube Light.

This will bring power to the tube from the Titan LED Driver.

(Picture #104)

Step F

Thoroughly inspect installation making sure all steps have been performed properly. Replace the Prismatic Lens and restore A/C Power. That's it, the Installation of Titan LED Tube Light Retrofit Kit is complete.

Congratulations! Enjoy your new Titan LED Tube Lights energy efficient, beautiful light.