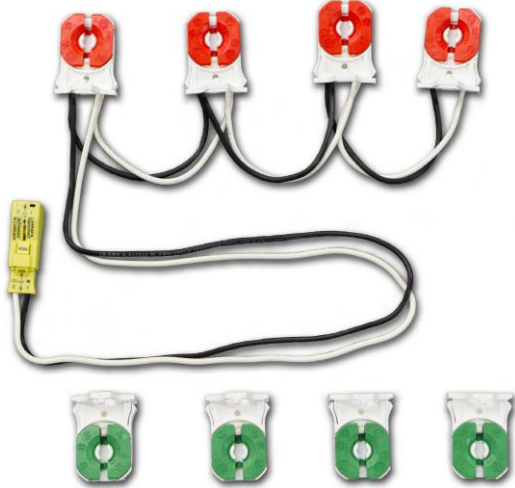


RLK SERIES

Retrofit Lamp Kit for LED Tubes



Normally, when retrofitting Fluorescent T8 fixtures to utilize LED T8 bypass lamps requires changing the sockets from Shunted to UnShunted and altering how the sockets are wired. The RLK retrofit lamp kit addresses the common problem by eliminating the hassle of rewiring in the field. The RLK kit provides a pre-wired socket assembly based on the number of LED T8 lamps that will be in the fixture. The kit includes pre-wired unshunted sockets plus the companion sockets for the other side of the fixture. The kit is UL listed when used either with our lamps provided or LED T8 lamps that UL Classified for Retrofit. This kit will pay for itself in installation and labor savings.

X1 LED

The most economical, practical and user friendly series of LED fixtures with the energy savings, quality of light, long life and hassle-free maintenance. X1 LED fixtures are UL Listed with the latest LED T8 Bypass lamps. Fixtures provide over 44% energy savings over comparable fluorescent fixtures utilizing less expensive fixtures than the fluorescent version (no ballast required) and have flexibility to change wattage and color temperature any time. Fixture performance will evolve over time with the evolution of the T8 LED lamp technology. Concerned about maintenance with an LED array and driver fixture, X1 LED solves that by utilizing a self contained LED lamp that fits into fixture just like a fluorescent lamp.

Lamp Specifications:

Our T8 LED lamps are available in 2 or 4 ft sizes in different wattage, lumens and color temperature options.
 50,000 Hour Life with 5 Year Warranty
 Beam Angle 140 Degree
 Aluminum Base and Aluminum Housing with Glass Cover
 Operating Temperature: - 20C to 50C
 Color Temperature: 3500K, 4000K, 5000K
 G13 Pins (Same as Fluorescent Linear T8 Bi-pin)
 AC100 – 277V without Ballast
 Single Ended or Double Ended Power (If not specified use X1 Single Ended Power)

Optional Dimming Options:

The 4 FT lamps are available with a dimming option. Specially designed dimming lamps require an external driver that runs 1 or 2 lamps. So more than 2 lamps require multiple external drivers.

Emergency Options:

The standard X1 LED Lamps require an inverter or an All-in-one emergency kit that includes LED array, battery and driver. Dimmable T8 LED with external driver works with standard LED EM it.

Series	Lamp Count	Wiring	LED Tube Options
RLK Retrofit LED Lamp Kit	3 1, 2, 3 or 4 Lamps not included	X1WR Wired for Single Ended LED T8 Tubes X2WR Wired for Double Ended LED T8 Tubes	L115W30 Single ended 15W1800 Lumen 3500K* Included, Not installed L118W30 Single ended 18W2100 Lumen 3500K* Included, Not installed

*Change 30 to 40 or 50 for 4000K or 5000K



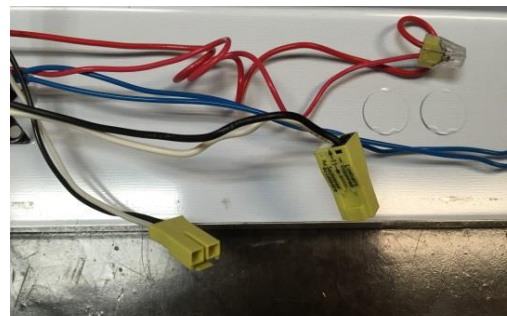
Installation Instructions

Removal of existing components

1. Shut off line power to the fixture at the breaker panel.
2. Disconnect and remove existing T8 lamps and discard as recommended by the provider, as they may contain mercury.
3. Remove ballast cover and set aside.
4. Break the mate on the yellow disconnect to cutoff the ballast from the line wires.

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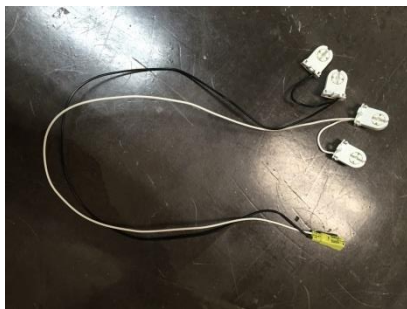
5. Pinch and push on the sockets to remove. Remove all four and let them hang.
6. Unfasten screws holding down the ballast. Remove ballast and sockets at once. Discard according to manufacturer's recommendation.



Alternatively, it is possible to cut the wires connecting the sockets to the ballast. Follow warnings printed below before proceeding.

Installation of retrofit kit

7. Insert retrofit sockets in place of the previously removed sockets.



8. Reconnect the existing half of the yellow disconnect from the ceiling to the new retrofit disconnect.



9. Use existing ground screw shown to ground fixture.

10. Adhere sticker reading, "This luminaire has been modified to operate LED lamps. Do not attempt to install or operate ___*___ lamps in this luminaire", where "*" represents the luminaire's original light source (i.e.: "fluorescent," "HID," etc.).



11. Replace ballast cover and LED tubes



12. Turn on line power to the fixture at the breaker panel.

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

"WARNING - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician."

"WARNING - Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire."

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

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

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