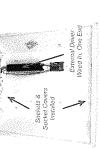


TEP 3 (Installation/Wiring of SEP External Driver)



Connect the low-voltage plus (+) and minus (-) power leads from the LED driver to each non-strunted socket as depicted in the adjacent wiring

diagrams. (Diagrams show the wiring for 4-, 3-

Snap the included, non-shunted sockets onto the mating notches of both socket covers.

Install the included SEP external LED driver where the previous fluorescent ballast was. (Use

appropriate self-tapping screws, if necessary.

2., and Futbe fixtures.)
Poliarly is unimportant. Simply confirm that each socket has the same colored wire connected to it. (For example, the sockets of a four-tube fixture

Wire the socket(s) on one side of the fixture only

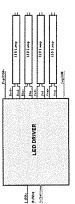
Sockets on the opposite side of the fixture serve would be red-red, blue-blue, yellow-yellow, and

only as famp supports and are not powered. Using appropriate wire nuts, splice the hot (black), neutral (white), and ground

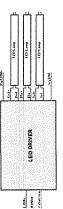
Using appropriate

(green/yellow) incoming power leads with the corresponding hot, neutral, and ground wires of the LED driver

4-Lamp 2's 2' Fixture with UED Driver & Sockets Installed



4-Lamp Wiring After Retruft



dinming wires indicated in wiring diagrams. Capoff dimming wires if not used for optional 0-10V

DOTTOMAL: 10 activate 0-10V dimming, splice purple (+) and gray (-) wires from LED driver to the incoming dimming control wires. (See

3-bamp Wining After Retrofit

Apply supplied label SKU #300004 with arrow pointing to the wired sockets of fixture, indicating

electrical tape if necessary) and re-secure the

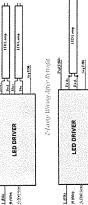
Secure all fasteners, clips and wires (use socket covers at both ends of the fixture. housing, next to powered sockets. Ensure that the label will not be covered by any cover pieces,

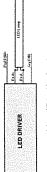
trim pieces, or other items. If necessary, clean the area where label will be placed before

affixing the self-adhesive label.

Apply Retrofitted Luminaire Label SKU #300223 on inside of luminaire housing near one end of

modified power socket(s).





I-bamp Wiring After Reweilt

STEP 4 (Lamp Installation, etc.)



ensure that powered end of the tube is althred with the powered turninaire socket, then insert single-end-powered LED lamp in the normal way by sliding the pins into tembsione sockets and gently rotating a quarter turn until LED tube locks in place. LED lamp is now fully installed.

Repeat above step for all LED tube lamps.

Replace troffer lens, if present

Read label on the included LED tube lamp to

Panished External-Drivor SEP Tube-Lamp Retrofit

STEP 5

Switch pewer back on.

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ING60_v01 9/12/16



Installation instructions: External-Driver SEP T8 LED Tube Lamp

Installation Notes & Precautions:



- tombstone spacing matches the base-to-base lamp tube lamps into a property wired luminaire/troffer. Before installing lamps, verify that luminaire
 - Installation should be performed by a qualified electrician or installer
- LED tube is powered from one end (SEP); the other end is NOT five and only serves to excure and mount the LED tube in the scoked. Verify that the furninaire is properly set up for this style of LED Tube before inserting into luminaire (modify luminaire if Operating voltages: 120VAC to 277VAC CAUTION: Wire the fixture as shown in Step 3 below.

External-Driver SEP T8 LED Tube Lamp

- WARNING: Do not use shunted lamp sockets when rewining fixture for SEP LED tube lamps.
- Shunted lamp sockets are found only in fluorescent luminaires with instant-Start ballasts. These ballasts are labeled "instant Start" or "t.S." or designaled as "IS" on the ballast markings, for example F40T12/IS For more information, contact your Revolution Lighting representative.
- Operating temperature range: -4 °F to 113 °F
- This light source is not intended as an emergency exit fixture or light.
- A "Retrofitted Luminaire" labet is included with your LED tube. This decal must be placed in a prominent focation on the luminaire so that it is visible when replacing an LED tube. If the luminaire is already modified for LED tube use and has a label, the new label may be discarded.
- damaged, or missing. Lampholders must be separated internally for proper wiring of the LED tube The LED tube fits into any T-Series Medium Bi-Pin (T8/T10/T12) socket. Lampholder sockets do not need to be replaced unless they are shunted, Refer to installation diagrams.
 - The LED tube may be used in open or enclosed surface or recessed (Type-IC) luminaires.
- If retrofitting an existing luminaire with LED tube(s), the initial luminaire retrofit witing changes shall be performed by a qualified electrician.

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Warnings:

- \triangleright WARNING – Risk of fire or electric shock. Do not use this retrofit kit in luminaires employing shunted bi-pin lampholders.
- \triangleright WARNING - Risk of fire or electric shock. Do not alter, relocate, or remove contact a qualified electrician for assistance. wiring, lampholders, ballasts or any other electrical component. If necessary,
- WARNING - To prevent wiring damage or abrasion, do not expose wiring to exposed edges of sheet metal or other sharp objects.
- luminaire modification steps below! In some cases, it may be necessary to test WARNING - Always disconnect power for your safety when performing the the testing, then disconnect the power from the luminaire when performing the the power feed with the power connected. Only connect the power when doing
- WARNING - Always follow local and regional NEMA Electrical codes. NEMA codes provide information on proper procedures, safety guidelines, proper tools, connection methods, and specifications on materials.
- \triangleright electrical safety procedures, codes, methods, and materials. If you are unsure about any electrical modification or installation, please consult a licensed WARNING - Revolution Lighting Technologies, Inc. cannot and will not be liable electrician or electrical contractor in your area. included instructions, you are solely responsible for following all applicable for any modifications or results of modifications to electrical devices or luminaires. These instructions are provided as a reference. By using the

Cautions:

- P CAUTION - Risk of Shock. Use in Dry or Damp Locations Only.
- CAUTION — Do NOT install an LED tube into a fluorescent luminaire containing a ballast and/or starter. The ballast and/or starter must be removed prior to installation.
- CAUTION Do not make or after any open holes in an enclosure of wiring or electrical components during kit installation.

Contents:

Carefu	Carefully open the box and check contents. Contact Revolution Lighting if any items are missing	n Lighting if any items are missing.
aty.	EXTERNAL-DRIVER SEP T8 LED TUBE LAMP(S) [SKU #: (as ordered)]	Lightweight, All-Plastic, External-Driver SEP T8 LED Tube Lamp(s)
aty.	EXTERNAL LED DRIVER [SKU #: (as ordered)]	External driver for powering 1, 2, 3, or 4 LED tubes, as ordered
J Qty.	TOMBSTONE SOCKET KIT [SKU #: (as ordered)]	Tombstone socket kit for 1-, 2-, 3-, or 4-tube fixture installations that includes 2, 4, 6, or 8 sockets, respectively
- St	"LUMINAIRE POWER SOURCE SOCKET" LABEL [SKU #: 300004]	This decal must be placed at the base of the powered LED tube socket on the LED-modified luminaire so that it is visible when replacing an LED tube. The arrow should point in the direction of the powered socket (only one tabel per retrofitted luminaire required at powered end).
7 ty	"RETROFITTED LIGHT LUMINAIRE" LABEL [SKU #: 300223]	This decal must be placed in a prominent location on the LED-modified luminaire so that it is visible when replacing an LED tube (only one label per retrofited luminaire required).
Qty.	EXTERNAL-DRIVER SEP T8 LED TUBE INSTALLATION INSTRUCTIONS [SKU #: 300553_v01]	Provides information necessary to retrofit a luminatire with externally powered SEP LED tube lamps.

External-Driver SEP T8 LED Tube Lamp Installation Instructions:

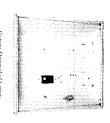
STEP 1



Disconnect power to installation site.

WARNING: Ensure that all power is off using a voltmeter or other method.

STEP 2 (Fixture Preparation)



- Remove troffer lens, if present
- Remove existing fluorescent tube lamps by rotating one quarter turn and sliding each lamp out. Dispose of them per job/company site rules
- Remove ballast cover. (Cover may be secured with screws or tabs.)
- Remove existing fluorescent ballast as well as all existing wiring, socket covers, and sockets. Bare fixture is now ready for external-driver

retrofit installation.

Fixture Stripped of Lump. Bollust, Wiring & Sockets

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