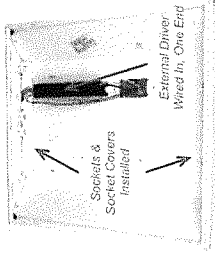
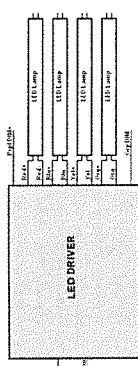


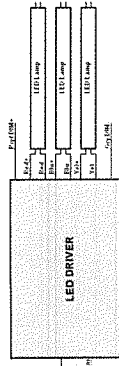
## STEP 3 (Installation/Wiring of SEP External Driver)



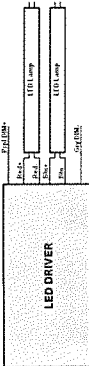
4-Lamp 2' x 2' Fixture with LED Driver & Sockets Installed



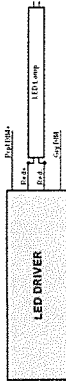
4-Lamp Wiring After Retrofit



3-Lamp Wiring After Retrofit

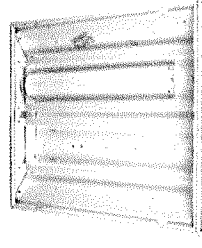


2-Lamp Wiring After Retrofit



1-Lamp Wiring After Retrofit

## STEP 4 (Lamp Installation, etc.)



Finished External Driver SEP Tube Lamp Retrofit

## STEP 5

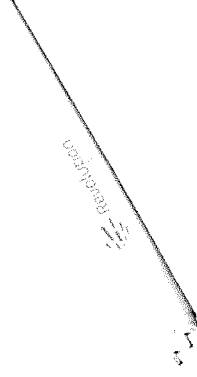


- Switch power back on.

## Installation Notes & Precautions:

- Read all precautions, warnings, instructions contained in this document.
- These instructions can be used to install up to four lightweight, all-plastic External-Driver SEP T8 LED tube lamps into a properly wired luminaire/fixture.
- Before installing lamps, verify that luminaire ballast/stone spacing matches the base-to-base lamp length.
- Installation should be performed by a qualified electrician or installer.
- Operating voltages: 120VAC to 277VAC
- **CAUTION: Wire the fixture as shown in Step 3 below.**
- LED tube is powered from one end (SEP); the other end is NOT live and only serves to secure and mount the LED tube in the socket. Verify that the luminaire is properly set up for this style of LED Tube before inserting into luminaire (modify luminaire if necessary).
- **WARNING: Do not use shunted lamp sockets when rewiring 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 "I.S." or designated as "IS" on the ballast markings, for example F40T12IS. 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 "Retrofit LED Luminaire" label is included with your LED tube. This label must be placed in a prominent location 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.
- 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, damaged, or missing. Lampholders must be separated internally for proper wiring of the LED tube. 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 wiring changes shall be performed by a qualified electrician.

## External-Driver SEP T8 LED Tube Lamp



Warnings:

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

Cautions:

- ⚠ **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 alter any open holes in an enclosure of wiring or electrical components during kit installation.**

Contents:

| Carefully open the box and check contents. Contact Revolution Lighting if any items are missing. |                                                                               |                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Qty. #                                                                                           | EXTERNAL-DRIVER SEP T8 LED TUBE LAMP(S) [SKU #: (as ordered)]                 | Lightweight, All-Plastic, External-Driver SEP T8 LED Tube Lamp(s)                                                                                                                                                                                                                      |
| Qty. 1                                                                                           | EXTERNAL LED DRIVER [SKU #: (as ordered)]                                     | External driver for powering 1, 2, 3, or 4 LED tubes, as ordered                                                                                                                                                                                                                       |
| Qty. 1                                                                                           | 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                                                                                                                                                                 |
| Qty. 1                                                                                           | "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 label per retrofitted luminaire required at powered end). |
| Qty. 1                                                                                           | "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 retrofitted luminaire required).                                                                                                  |
| Qty. 1                                                                                           | EXTERNAL-DRIVER SEP T8 LED TUBE INSTALLATION INSTRUCTIONS [SKU #: 300553_v01] | Provides information necessary to retrofit a luminaire 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)

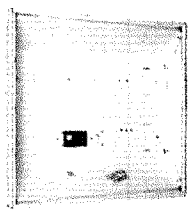


Figure: Stripped of Lamps, Ballasts, Wiring & Sockets

- 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 and regulations.
- 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.