



## INSTALLATION INSTRUCTIONS FOR SINGLE END BYPASS T5

### Items:

**L4T5B/835/25/F/SE-70**

**L4T5B/840/25/F/SE-70**

**L4T5B/850/25/F/SE-70**



### **WARNING** RISK OF FIRE AND ELECTRIC SHOCK - DISCONNECT POWER BEFORE INSTALLATION.

- LED retrofit kit installation must be completed in accordance with the national electrical code or your local electrical code. If you are not familiar with these codes and requirements, contact a certified electrician.
- Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where input rating of the retrofit kit does not exceed the input rating of the luminaire.
- Luminaire wiring and electrical parts may be damaged when installing retrofit kit hardware. Check for enclosed wiring and components. Do not install if existing wires are damaged
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders. Note: shunted lamp holders are found only in fluorescent luminaires 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 luminaire retrofit kit manufacturer.
- 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.
- This retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction.
- Suitable for use in enclosed luminaires and rated for damp locations
- This device is not intended for use with emergency exits or dimmers.
- This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- "This luminaire has been modified and can no longer operate the originally intended lamp," shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including lamping.

**LIMITED WARRANTY:** Topaz Lighting Corp. warrants to the original purchaser that Topaz fixtures/lamps shall be free from defects of material and workmanship for a period as stated above from the date of purchase. Topaz Lighting Corp. will, at its option, repair or replace without charge a defective fixture/lamp that has not been misused, carelessly handled or improperly installed. Repair or replacement, as stated above, shall constitute the purchaser's exclusive warranty, which does not extend to transportation, installation, labor or any other incidental or consequential charges. [www.topaz-usa.com](http://www.topaz-usa.com).



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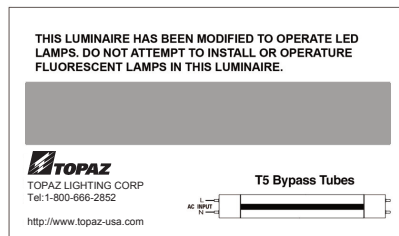
## Items:

**L4T5B/835/25/F/SE-70**

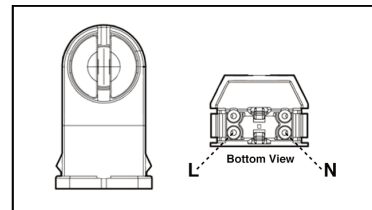
**L4T5B/840/25/F/SE-70**

**L4T5B/850/25/F/SE-70**

1. Make sure the circuit breaker that supplies the power to the fixture is turned off.
2. Remove lens or diffuser cover (if applicable) and existing fluorescent lamps.
3. Open/Remove ballast wiring compartment cover.
4. Identify the line and neutral wires running from the breaker box to the ballast and confirm the power is off using a voltmeter.
5. Cut all wires connected to ballast, and remove ballast (and starter if present). Dispose of removed ballast and fluorescent lamps in accordance with government regulations in your area.
6. Ensure that the fixture contains non-shunted G5 bi-pin lamp holders (**Figure 1**). If socket lamp holders are internally shunted, then replace with new non-shunted socket lamp holders. If socket lamp holders are shunted with a jumper wire, remove wire to convert into non-shunted sockets.
7. TOPAZ LED T5 lamps are designed for single sided connections only (**Figure 2**). To install, please wire non-shunted sockets by connecting one wire from the lamp holder to branch circuit L (LIVE) and the other wire at the opposite end to the branch circuit N (NEUTRAL). Do not connect opposite side to power. Use appropriate wires for connection.
8. Make sure all sockets are replaced and wired according to the appropriate wiring diagram. (**Figure 3, 4, 5, 6**).
9. Reinstall the ballast cover to conceal all wires.
10. Install your new TOPAZ LED T5 replacement lamps.
11. Apply Relamping Label on a visible location inside the fixture:



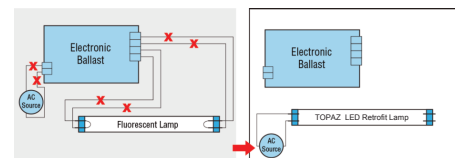
12. Reinstall lens or diffusion cover on the light fixture.
13. Turn power on at the breaker box.
14. Turn on the lights.



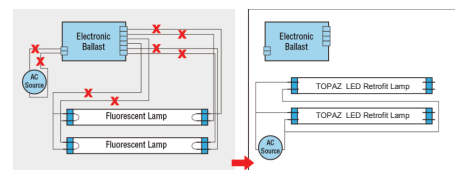
**Figure 1. - Non-shunted G5 Lamp Holder For T5**



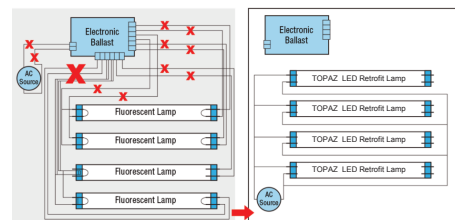
**Figure 2. - Single sided connection**



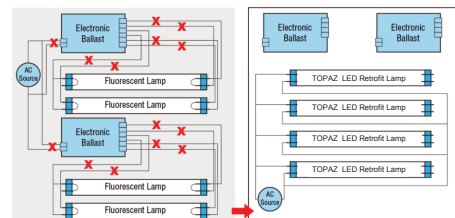
**Figure 3. - Retrofit with One Lamp**



**Figure 4. - Retrofit with Two Lamps**



**Figure 5. - Retrofit with Three/Four Lamps**



**Figure 6. - Retrofit with Three/Four Lamps**