SINCE 1945
KEYSTONE
LIGHT MADE EASY®

SIGN HERO
LED SIGN TUBES

KT-LEDXXT8-XXP2SF-8CSK-DX2
CONTRACTOR PRIME INSTALLATION AND OPERATING INSTRUCTIONS

INSTALLATION AND SAFETY INSTRUCTIONS

IMPORTANT: Read before installing fixture. Retain for future reference.

WARNING:

- **DANGER:** Risk of shock-disconnect power before installation.
- **WARNING: Risk of fire or electric shock.** LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- **WARNING:** Product must be installed in accordance with the national electrical code or your local electrical code. If you are not familiar with these codes and requirements, contact a qualified electrician.
- **WARNING:** Install this kit only in luminaries that have the construction features and dimensions shown in the photographs and/or drawing and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- **WARNING:** 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 any enclosure of wiring or electrical components during kit installation.
- **WARNING:** To avoid potential fire or shock hazard, please confirm the type of lamp holder before installation. **If it is a shunted lamp holder, refer to double-ended wiring.**

  NOTE: Shunted lamp holders are found only in fluorescent luminaries 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 F40T 12/IS, for more information contact the LED luminaire retrofit kit manufacturer.

  If it is non-shunted lamp holder, refer to single or double-ended wiring.

  Installers should not disconnect the existing wire 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.
- **WARNING:** Luminaire wiring and electrical parts may be damages when installing retrofit kit hardware. Check for enclosed wiring and components.
- **WARNING:** Check the existing wiring for damage before installing upgrade kit. Do not install if existing wires are damaged. This retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction.
- “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.
- Do not use with dimmers.
- Suitable for damp locations. Suitable for use in enclosed luminaries.
- This device is not intended for use with emergency exits.
- 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.

INSTALLATION: (See diagrams on back)

STEP 1: Make sure the circuit breaker that supplies the power to the fixture is turned OFF.

STEP 2: Before installation, select your preferred CCT by moving the switches **on both ends of the lamp** to either 4000K, 5000K or 6500K.

STEP 3: Remove lens or diffuser cover (if applicable).

STEP 4: Open/Remove ballast wiring compartment cover.

STEP 5: Identify the Line and Neutral wires running power is OFF using a voltmeter.

STEP 6: Cut all wires connected to the ballast, and remove ballast (and starter if present). Dispose of ballast and fluorescent lamps in accordance with government regulations in your area.

STEP 7: Ensure that the fixture contains R17d lamp holders.

STEP 8: These T8 LED lamps are designed for single ended wiring **(Figure 1)** and double-ended wiring **(Figure 1a)**. When installing, confirm only the input end of the lamp is powered, and securely connected to the powered R17d lamp holders (120V-277V).

STEP 9: Make sure all sockets are wired according to the appropriate wiring diagram **(Figures 1/1a – 4/4a)**.

STEP 10: Reinstall the ballast cover to hide all wires.

STEP 11: Install your new single and double ended LED T8 replacement lamps.

STEP 12: Apply relamping label on a visible location inside the fixture.

STEP 13: Reinstall lens or diffusion cover on the light fixture.

STEP 14: Turn power ON at the breaker box.

STEP 15: Turn on the lights.

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Single-ended connection (non-shunted sockets)

Figure 1: Retrofit with ONE Lamp

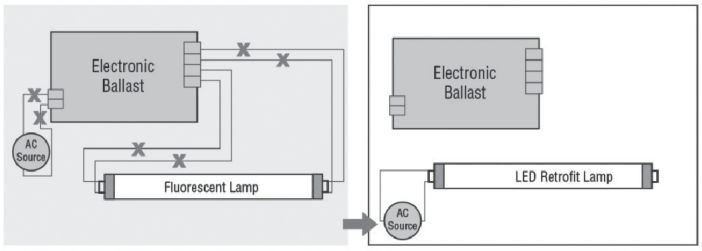


Figure 2: Retrofit with TWO Lamps

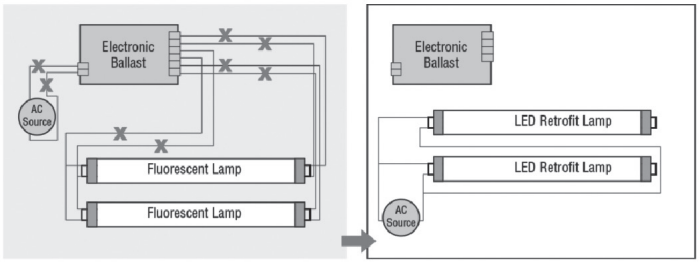


Figure 3: Retrofit with THREE/FOUR Lamps

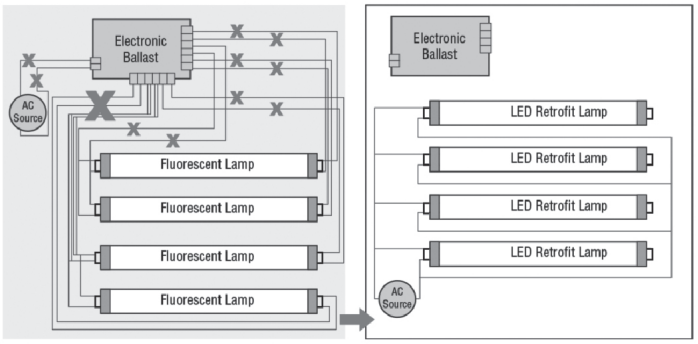
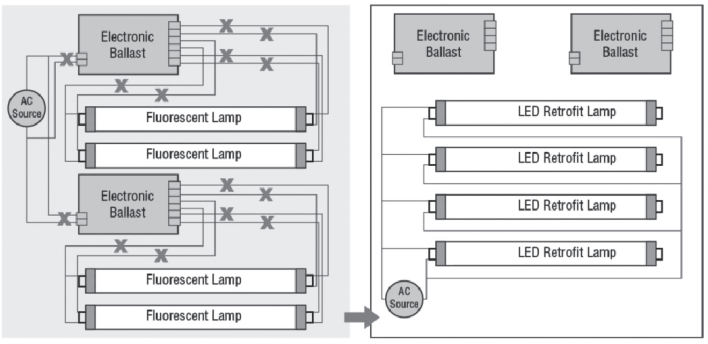


Figure 4: Retrofit with THREE/FOUR Lamps + TWO Ballasts



Double-ended connection (shunted or non-shunted sockets)

Figure 1a: Retrofit with ONE Lamp

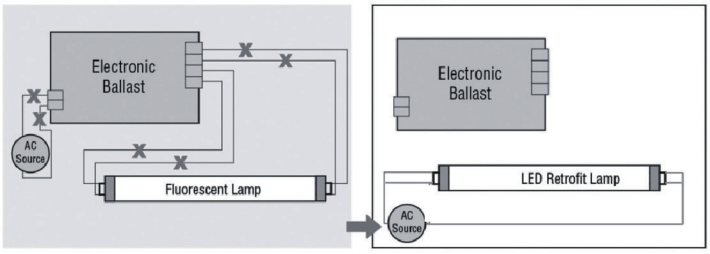


Figure 2a: Retrofit with TWO Lamps

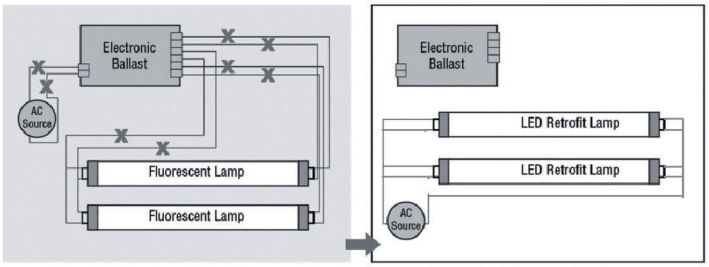


Figure 3a: Retrofit with THREE/FOUR Lamps

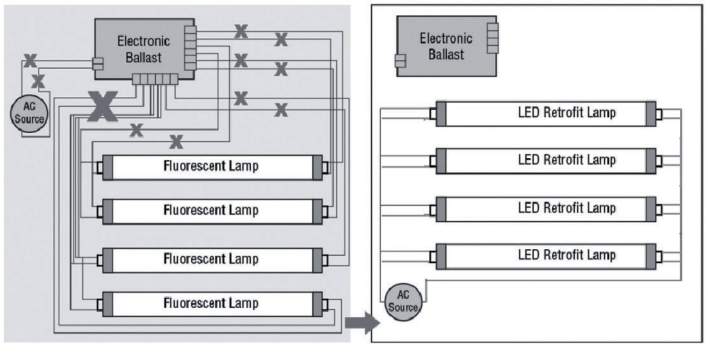


Figure 4a: Retrofit with THREE/FOUR Lamps + TWO Ballasts

