

Natural LED Tube Lamp (Linear Fluorescent Replacement) Retrofit Installation Instructions

The product package includes the following components:

1. Integral LED Lamp (1 unit)
2. Installation Instructions (1 - 4 pages)

IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS:

THIS PRODUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST U.L. SAFETY, NEC AND/OR LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION SHALL BE PERFORMED BY A QUALIFIED ELECTRICIAN UNDERSTANDING THE CONSTRUCTION AND OPERATION OF THIS PRODUCT AND THE ELECTRICAL REQUIREMENTS INVOLVED.

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.

Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.

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

Do not install in a raceway or a luminaire marked for through branch wiring.

Risk of fire or electric shock: Use only on 120-277 VAC, 50/60Hz circuits. Installer shall verify operating voltage at the luminaires prior to installation.

Suitable for damp or dry locations when used with UL Listed Type IC or Non-IC, recess mounted or surface mounted luminaires and suitable for use in totally enclosed luminaires.

Risk of fire or electric shock: To prevent wiring damage or abrasion, protect wiring from exposed edges of sheet metal or other sharp objects that may be present in the fixture.

To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing non-shunted bi-pin lamp holders. Note: Non-shunted bi-pin lamp holders are found in fluorescent luminaires with rapid-start, dimming, program start, program rapid-start, and preheat ballast. Conversely, 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. For more information, contact 1000Bulbs.com at 800-624-4488.

If the end user wants to use this retrofit kit in luminaires employing non-shunted bi-pin lamp holders, a qualified electrician **must replace** all **non-shunted** bi-pin lamp holders with **shunted** bi-pin lamp holders.

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

Do not make modifications to or alter fixture housing, ballast enclosure or electrical components other than those required for proper installation.

THIS RETROFIT ASSEMBLY IS AN APPROVED COMPONENT OF A LINEAR FLUORESCENT LUMINAIRE KIT WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR LOCAL AUTHORITIES HAVING JURISDICTION.

Shunted fluorescent lamp holders within fixture shall be rewired to line voltage and will no longer operate the original fluorescent lamp. **LAMP HOLDERS MUST BE SHUNTED.**

DO NOT USE WITH DIMMERS.

THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY LIGHTING (BATTERY TYPE) SYSTEMS FOR FLUORESCENT LIGHTING PRODUCTS.

1. Installation

DANGER -RISK OF ELECTRIC SHOCK-DISCONNECT POWER TO LIGHT FIXTURE BEFORE INSTALLATION"

*****QT"TG RNCEGO GP V0'

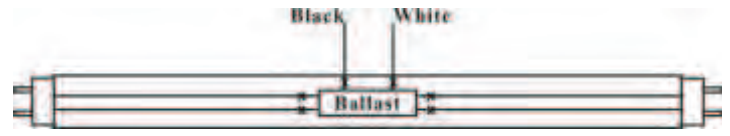
To replace fluorescent tube lamp with LED tube lamp, the wiring must be installed according to these instructions to ensure a complete and safe installation of the LED tube lamp.

CAUTION: LAMP HOLDERS MUST BE SHUNTED. POWER FLOWS THROUGH LED TUBE LAMP

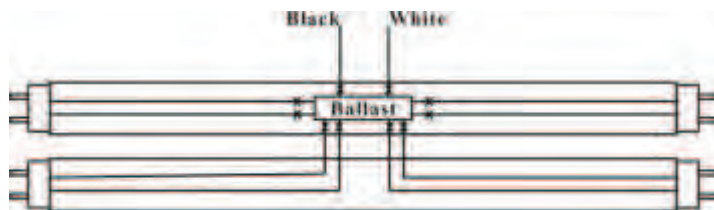
1. Turn off the power to the light fixture at the breaker panel before installation"qt"tgr rcego gpv0
2. If retrofitting an enclosed fixture, open the diffuser from the light fixture.
3. Remove existing fluorescent lamps. Please dispose or recycle these items properly in accordance with local requirements as they contain mercury.
4. Open the wiring cover to expose the fluorescent ballast.
5. Cut the wires shown as the diagram below. Optional: Remove ballast and starter and dispose or recycle in accordance with local requirements.



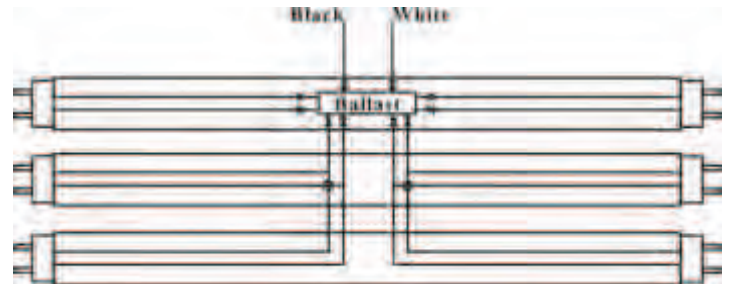
Inductive ballast type



Electronic ballast type

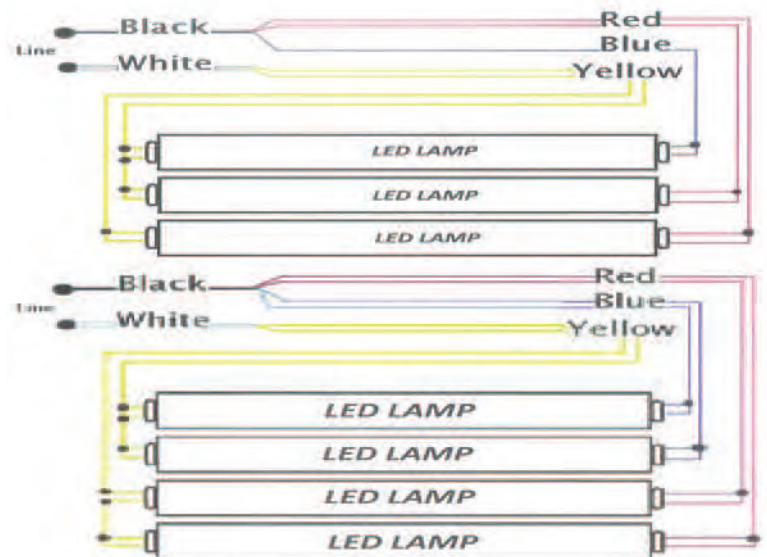
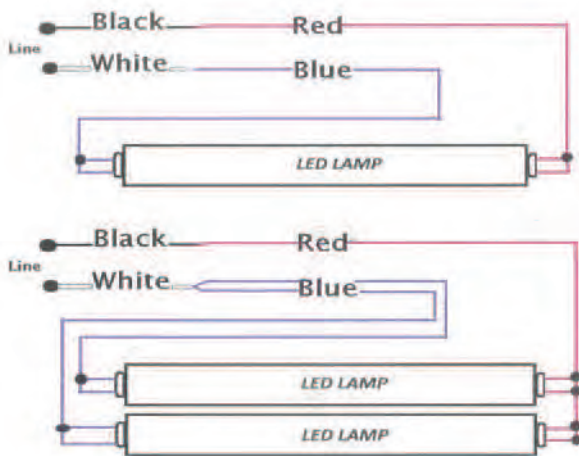


Ballast with 2 lamps



Ballast with 3 lamps

6. Strip back 1/2" of insulation on each of the wires that feed the lamps and A/C power entering the fixture. Make the new wire connection for new branch circuit wiring required and shown as in diagrams below.



7. Reinstall the ballast cover over the wiring channel.
8. Install new LED lamp as you would normal fluorescent lamps after removing the packaging caps from the tube ends.
9. Close fixture and reapply power.