

4ft Ultra-Efficient Magnetic LED Retrofit Kit

DANGER!

RISK OF FIRE OR ELECTRIC SHOCK. INSTALLATION OF THIS RETROFIT ASSEMBLY REQUIRES A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE LUMINAIRE'S ELECTRICAL SYSTEM AND THE HAZARD INVOLVED. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.

WARNING!

PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.

- **WARNING - 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.**
- **WARNING - Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.**
- **Risk of fire or electric shock. Check the existing wiring for damage before installing. Do not install if existing wires are damaged.**
- **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 an enclosure of wiring or electrical components during installation.**
- **Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when installing hardware. Inspect wiring and components for damage.**

NOTE:

THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR AUTHORITIES HAVING JURISDICTION.

- **“This luminaire has been modified to operate LED lamps. Do not attempt to install or operate the originally intended lamp in this luminaire,” shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance, including lamping.**
- **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.**

Ultra-Efficient LED Retrofit Kit for 2x4 Troffer

Installation Steps

Disconnect All Power

INSTALLER NOTES:

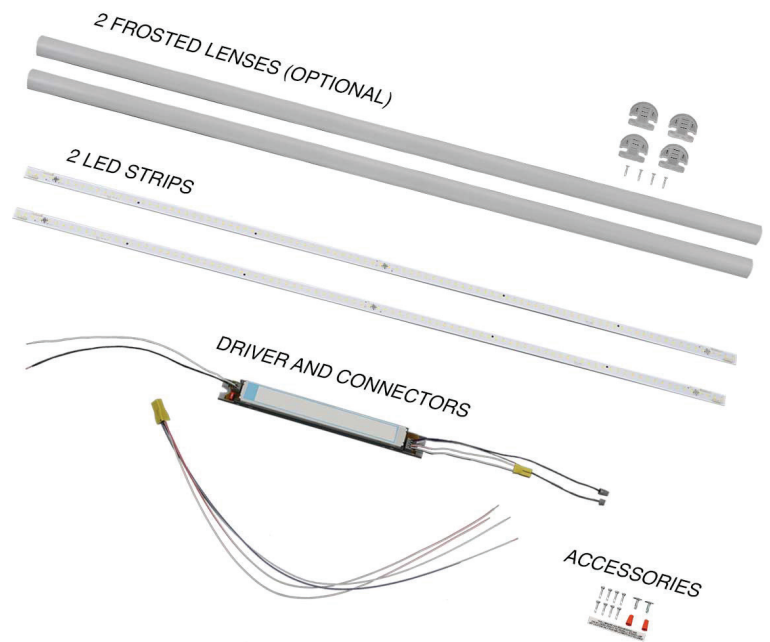
- 1.) Do not touch LEDs directly. Damage may occur.
- 2.) LED driver must be installed after a wall switch and cannot be wired directly to "Main" voltage source.
- 3.) Be sure to consider the length of the cables when mounting strips.
- 4.) When using a "parabolic lens fixture" attach light strips centrally to maximize light output.
- 5.) Attach "Luminaire Modification Label" to troffer after installation for UL compliance.

Luminaire Modification Label:

This luminaire has been modified to operate LED lamps. Do not attempt to install or operate fluorescent lamps in this luminaire.

Before install, ensure your kit includes the following:

- 4ft LED Strips (x2)
- LED External Driver
- Connectors
- Screws
- Wire Nuts
- Luminaire Modification Label
- Lenses (Optional)
- Lens-Retaining Caps (Optional)



STEP 1

- Read all warnings and installer notes before proceeding with retrofit.
- Check your kit against parts list (Lenses will be packaged separately).

STEP 2

- Disconnect power from fixture.
WARNING: Risk of fire or electric shock. If existing wiring is damaged, do not install.
- Remove diffuser cover (with frame).

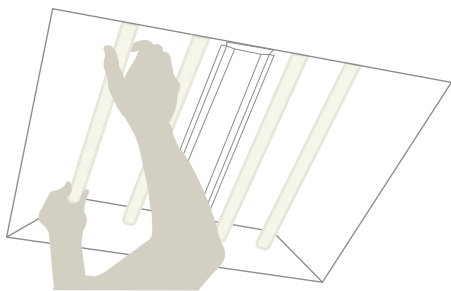
Ultra-Efficient LED Retrofit Kit for 2x4 Troffer

Installation Steps

Disconnect All Power

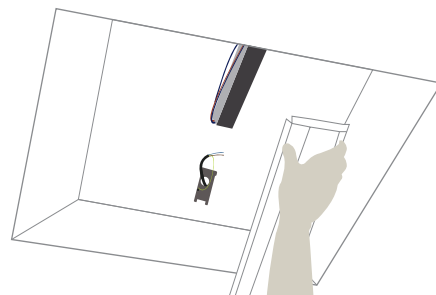
STEP 3

Remove fluorescent tubes. **Dispose of tubes in proper accordance with current state and federal regulation. Fluorescent tubes contain hazardous materials.**



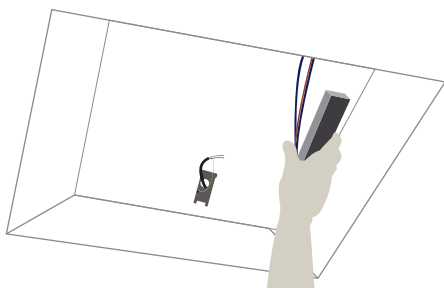
STEP 4

Remove ballast cover.



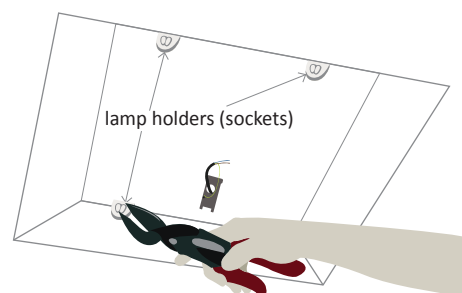
STEP 5

- Cut and remove any wires leading to the ballast. **WARNING:** Do not cut or remove the fixture's grounding contact.
- Remove fluorescent ballast.



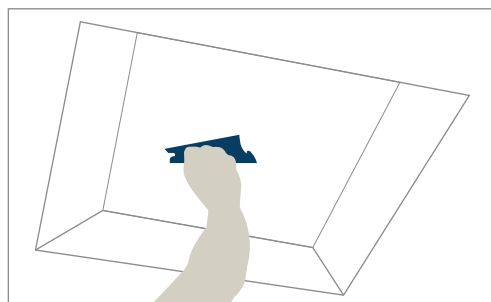
STEP 6

Cut the wiring at the lamp holder strips. Do not remove lamp holders.



STEP 7

Using a cloth and 70-80% alcohol solution, wipe down housing. Remove all residues and dry thoroughly.

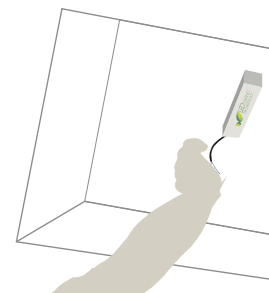


STEP 8

Install LED Driver, using provided screws:

Notes:

- Be careful not to damage any hidden wiring or components when installing screws.
- Find a location to mount driver considering length of wire to ensure all components will be within reach.
- If driver has tape, remove protective cover.

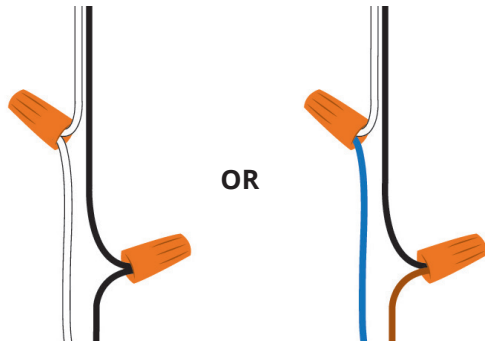


Ultra-Efficient LED Retrofit Kit for 2x4 Troffer Installation Steps

Disconnect All Power

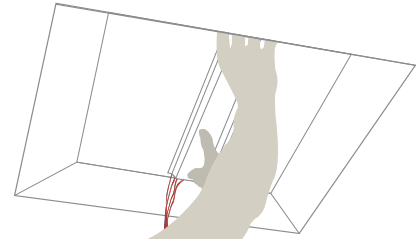
STEP 9

Connect driver to AC using wire nuts. You may connect White to White, Black to Black OR White to Blue, Black to Brown.



STEP 10

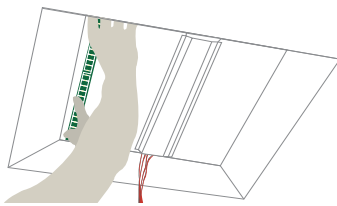
Re-install ballast cover/cover plate extending wires out the end.



STEP 11

Plan spacing of LED strips within cabinet leaving access to ballast cover/cover plate.

If extra space is needed, remove lamp holders.

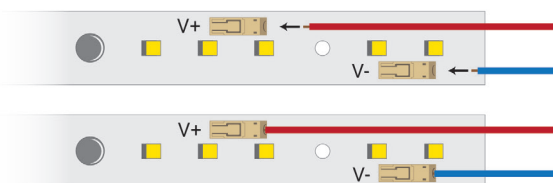


STEP 12

Attach LED strips with hardware provided.

STEP 13

- Attach wiring to the LED strips. **WARNING:** Failure to connect properly will damage strips.
- Check LED strips connector ID labels for V+ and V-. Push the (RED) wires fully into the (V+) labeled connector, and the (BLUE) wires fully into the (V-) connectors.



STEP 14

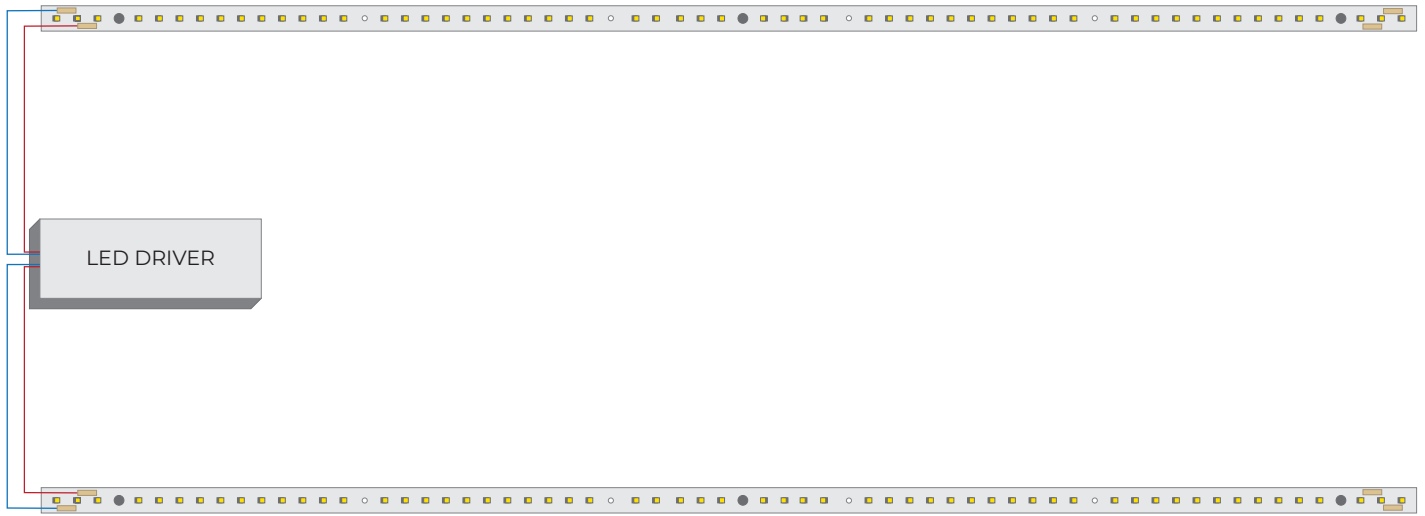
- Attach "Luminaire Modification" label to a clearly visible location on the fixture.
- Optional Step: Install lenses cover over light strips using retaining caps at each end. Route wiring through the slots in the cap. When permanent location has been decided, install provided screws in retaining caps.
- Re-install diffuser cover (with frame).
- Reconnect power to the unit.

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Ultra-Efficient LED Retrofit Kit for 2x4 Troffer

Strip Configuration

2x4 Strip Kit Configuration



1x8 Strip Kit Configuration

