

AIMANT MAGNETIC RETROFIT STRIP KIT (PC LENS)

IMPORTANT SAFEGUARDS

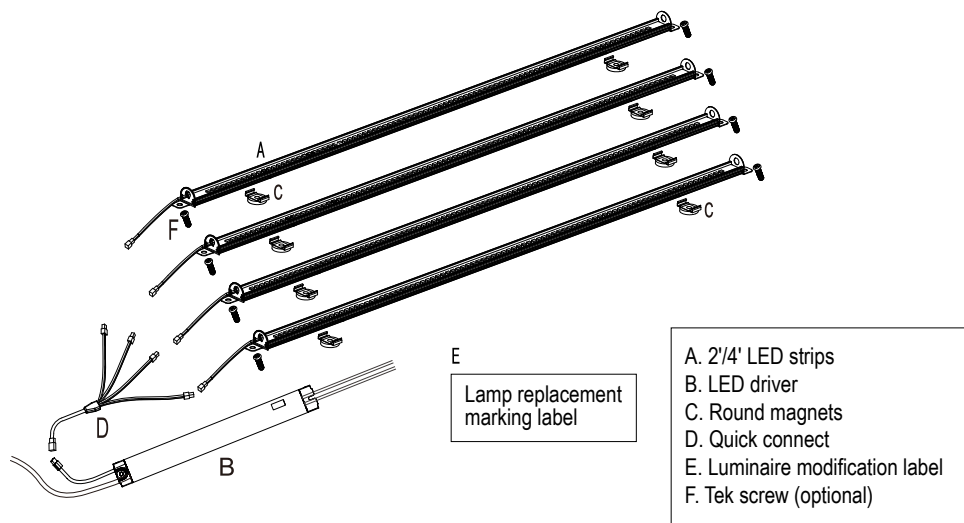
Cautions:

1. Read carefully before installing the retrofit kit. Retain these instructions for future reference.
2. Thoroughly inspect the fixture for any freight damages; freight damage should be reported to the delivery carrier.
3. LED retrofit kits must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety.
4. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product. The luminaires must be installed by a qualified electrician.

Getting Started:

LED troffer retrofit kit is designed to replace fluorescent lamps within conventional recessed mount fluorescent troffers or surface mount strip fixtures.

Following items are included in this box:



Warning:

RISK OF FIRE OR ELECTRIC SHOCK.

- Make sure the power supply is off before installing or maintaining the product.
- Install this product only in the luminaires that have the construction, features, and dimensions shown in the photographs and/or drawings and where the input rating of the product does not exceed the input rating of the luminaires.
- To prevent any wiring damage or abrasion, do not expose wires to the edges sheet metal or other sharp objects.
- The retrofit kit installation requires one to have proper electrical knowledge of the luminaires and existing lighting 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 make or alter any open holes in an enclosure of wiring or electrical components during installation.
- Never perform maintenance or cleaning when the fixture is energized. Disconnect power and allow the fixture to cool down before you start with maintenance.
- Luminaire's wiring, power supply, or other electrical parts may be damaged when drilling for installation of retrofit assembly hardware. Inspect wiring and components for damage.

RISK OF INJURY

- Wear safety glasses and gloves during the installation and servicing. **THIS DEVICE IS NOT INTENDED TO USE WITH EMERGENCY EXITS.**

SHOCK AND FIRE HAZARD

- Do not use when enclosure is broken.
- To avoid any potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders.

Note: shunted lampholders are found only in fluorescent lights.



Luminaires with instant-start ballasts. Instant-start ballasts can be identified by the words "instant start" 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 more information, contact the LED 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.

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The retrofit models are suitable to be installed in the luminaires

AS SHOWN BELOW.

- Min. 3.93" gap should be there between the LED strips or side of lamp compartment for recessed luminaires.
- Min. 0.66" gap should be there between the LED strips for surface mounted luminaires.

Luminaire Type	Recessed	Recessed
Minimum Lamp Compartment Size	23.6" x 47.2" x 2.67"	23.6" x 23.6" x 2.67"
Luminaire Outlook		

Wiring Diagram:

Wiring Diagram

Electrical Connection:

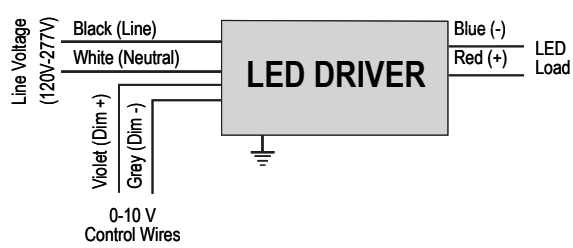
1. Connect BLACK (line) driver lead to voltage supply line position (HOT).
2. Connect driver WHITE lead to the NEUTRAL supply position.
3. Connect the GREEN ground lead to the supply ground lead.

If Using 0-10 V Dimming:

4. Connect VIOLET lead to the supply POSITIVE dimming lead.
5. Connect GREY lead to the supply NEGATIVE dimming lead.

If Not Using 0-10 V Dimming:

6. Ensure VIOLET and GREY 0-10 V dimming lead are properly capped.

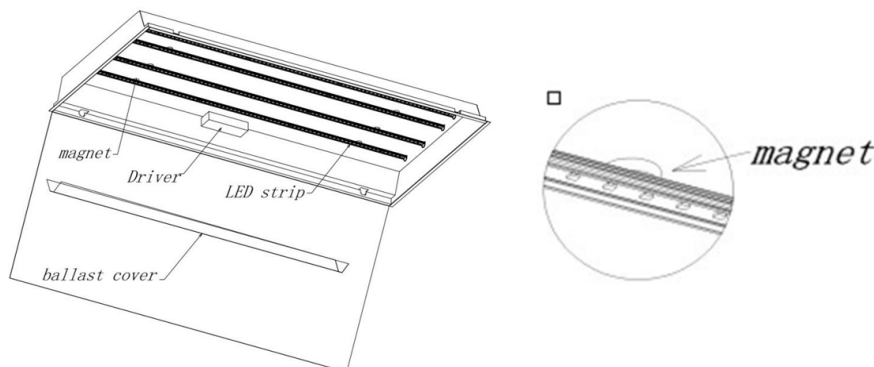


The diagram shows a central LED DRIVER box. On the left, 'Line Voltage (120V-277V)' is connected to 'Black (Line)' and 'White (Neutral)'. A ground symbol is shown below the driver. On the right, 'LED Load' is connected to 'Blue (-)' and 'Red (+)'. At the bottom, '0-10 V Control Wires' are connected to 'Violet (Dim +)' and 'Grey (Dim -)'.

Before installing the product, please carefully read the installation instructions, inspect all the components, and install according to the industry standards of electrical code. There are two different methods of installation when replacing an existing troffer. See below.

Installation Method One:

- Step 1. Turn off the power in the circuit breaker.
- Step 2. Open the existing fixture.
- Step 3. Remove all the existing fluorescent tubes.
- Step 4. Remove the ballast cover, cut all the wires connecting to the ballast, and finally remove the ballast.
- Step 5. Install the LED strip kits with extrusion aluminum heat sink in the existing fixture using magnets.
- Step 6. Install a new IKIO LED driver in place of the old ballast using magnets and connect with the power using live and neutral wire.
- Step 7. Locate the ground wire and ground to fixture.
- Step 8. Cover the LED driver with existing ballast cover.
- Step 9. Turn the power back on.



Installation Method Two:

- Step 1. Turn off the power in the circuit breaker.
- Step 2. Open the existing fixture.
- Step 3. Remove all the existing fluorescent tubes.
- Step 4. Remove the ballast cover, cut all the wires connecting to the ballast, and finally remove the ballast.
- Step 5. Install the LED strip kits with extrusion aluminum heat sink in the existing fixture using self-tapping screws.
- Step 6. Install a new IKIO LED driver in place of the old ballast using magnets and connect with the power using live and neutral wire.
- Step 7. Locate the ground wire and ground to fixture.
- Step 8. Cover the LED driver with existing ballast cover
- Step 9. Turn the power back on.

