

IMPORTANT:

- Read all instructions carefully before attempting installation. If you do not understand these instructions, please consult your local distributor.
- Thoroughly inspect the fixture for any freight damage; freight damage should be reported to the delivery carrier.

Contents:

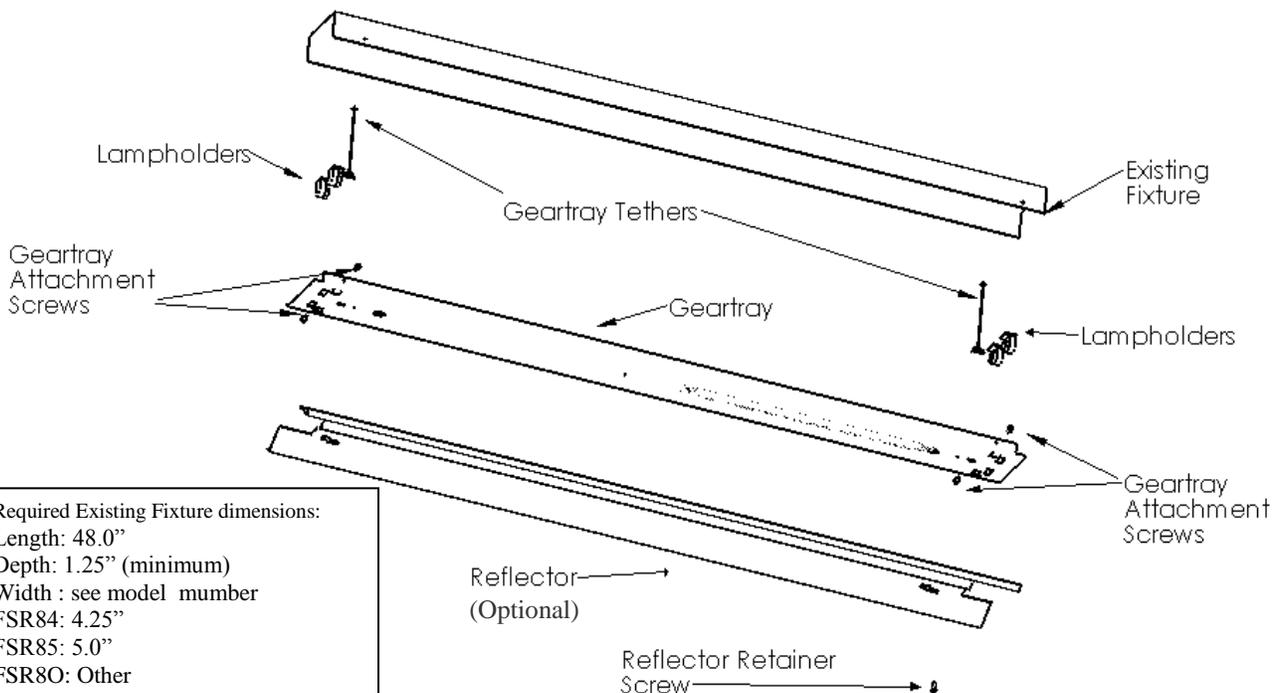
- (1) 48" Geartray with ground wire
- (6) Tek screws
- (2) Geartray tethers
- (1) Ballast with pre-wired lampholders and Luminaire Disconnect Plug

SAFETY:

- This fixture must be wired in accordance with the National Electric Code and applicable local codes or ordinances.
- All work should be performed by a qualified electrician.
- To insure personal safety, proper grounding is required (connect green fixture lead to supply ground).

WARNINGS:

- Risk of fire or electric shock. Luminaire wiring, ballasts, or other electrical parts may be damaged when drilling for installation of reflector kit hardware. Check for enclosed wiring and components.
- Risk of fire or electric shock. Reflector kit installation requires knowledge of fluorescent lighting luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Installation of this retrofit assembly requires a person familiar with the construction and operation of fluorescent luminaire electrical systems and the hazard involved.
- Reflector kit is not intended to be used in wet or damp locations.
- Risk of fire or electric shock. Install this kit only in the luminaires that has the construction features and dimensions shown in the photographs and/or drawings.
- 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.
- This kit is intended for use with Surface Mounted or Type Non-IC Recessed Luminaires.



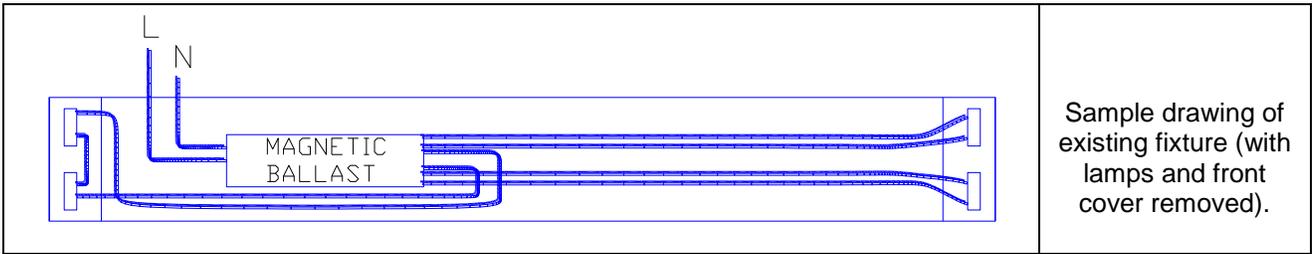
Required Existing Fixture dimensions:

- Length: 48.0"
- Depth: 1.25" (minimum)
- Width : see model number
- FSR84: 4.25"
- FSR85: 5.0"
- FSR80: Other

Geartray dimensions:

- Length: 48"
- Width : see model number
- FSR84: 4.25"
- FSR85: 5.0"
- FSR80: Other

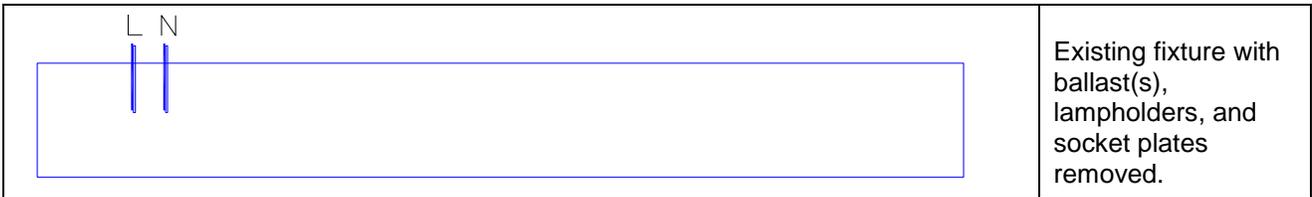
Installation:



Sample drawing of existing fixture (with lamps and front cover removed).

Step 1)

- Remove existing lamp(s) and ballast cover.
- Disconnect and remove existing ballast.
- Remove existing lampholders and socket plates, leaving only the supply and grounding leads.



Existing fixture with ballast(s), lampholders, and socket plates removed.

Step 2)

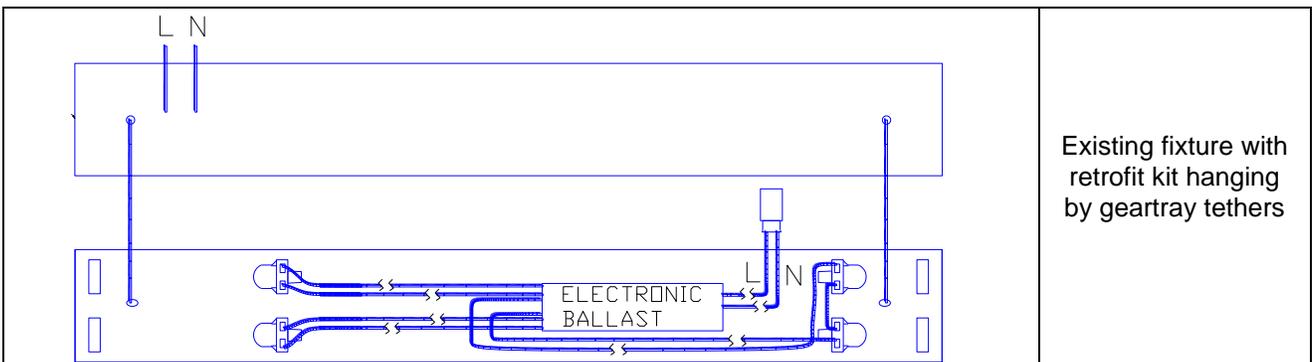
- Thread a tek screw through the ring of the geartray tether and drive it into the fixture. The length of the tether serves as a template for placement of screw. The screws should be driven one tether length from the ends of the fixture. [DIAGRAM 1] The use of an electric drill with a magnetic socket is highly recommended.
 - Once both geartray tethers are installed, thread the head of each tether into the oblong slots of the geartray. [DIAGRAM 2]
- Ensure that the geartray is positioned so that ballast input leads will reach incoming power supply.



DIAGRAM 1 - Geartray tether placement (in existing fixture)



DIAGRAM 2 – Thread geartray tether into geartray.



Existing fixture with retrofit kit hanging by geartray tethers

The above kit is shown for illustration purposes only; specific configurations will vary depending on number of lamps, ballast type, etc.

Step 3)

- Snap lampholders into the lampholder cut outs as marked (i.e. a lampholder containing a blue ballast lead goes into the "BLUE" cut out). Each lampholder shall be installed only in the intended manner and location. [DIAGRAM 3]
- Connect the supply ground wire to the green fixture wire.
- Insert incoming power into Luminaire Disconnect Plug (LDP). Insert the black supply wire into the black hole of the LDP. Insert the white supply wire (neutral) into the white hole of the LDP. The LDP is not designed to accept stranded wire. To connect it to stranded wire, insert solid conductor wires into the LDP then connect stranded wire to solid with a wire nut. [DIAGRAM 4]



DIAGRAM 3 – Insert lampholder according to color labels.

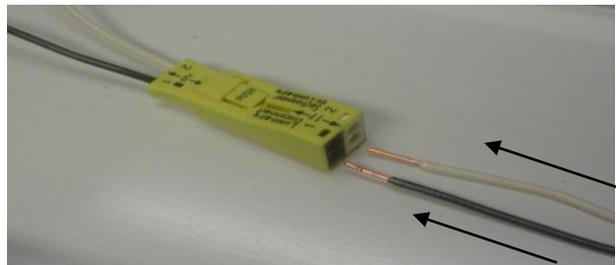
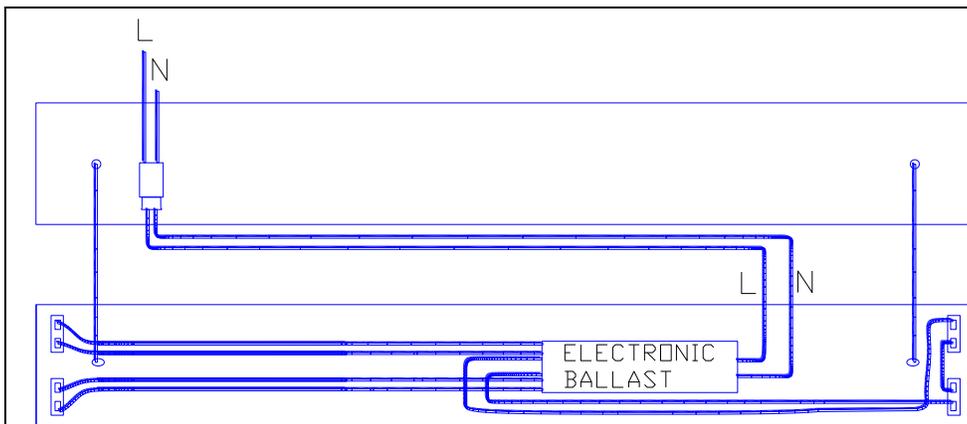


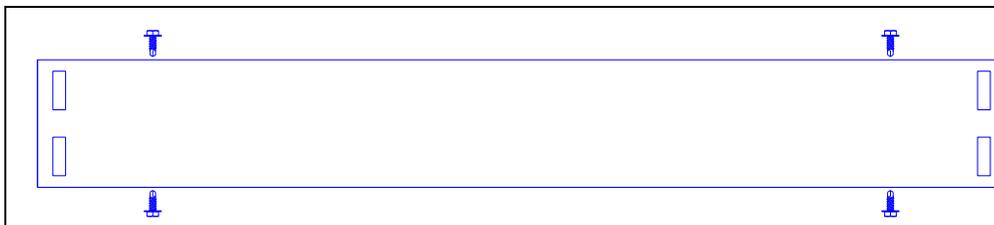
DIAGRAM 4 – Insert solid conductor supply wires into luminaire disconnect plug.



Existing fixture with fully wired retrofit kit.

Step 4)

- Close the geartray ensuring that no wires are pinched.
- Bond the geartray to the fixture by driving a tek screw through each of the (4) holes that are stamped into the geartray sides and into the fixture body. [DIAGRAM 5]



Showing insertion of geartray retainer screws.



DIAGRAM 5 – Drive tek screw through each of the (4) holes in side of the geartray and into the fixture body

Step 5)

-Install fluorescent lamps. Insert each lamp into sockets and turn until the lamp 'snaps' into place. If lamp replacement is necessary, ensure that the lamp is the same wattage and type as indicated on the ballast label.



Completed retrofit.

⚠ WARNING:

Improper seating of lamps can create a fire hazard.
Whether field or factory installed, ensure lamp position is correct before energizing fixture.
See Diagrams 6 and 7.



Diagram 6-T8 lamp seating

The dimple on the lamp base is aligned with the slot in the lamp holder.



Diagram 7-T5 lamp seating

The flat surface of the lamp base is perpendicular to the slot in the lamp holder