



Optimax 2 Lighting System Retrofit Installation Instructions for models 101X and 101A

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Turn off power to the lighting system before removing any lens covers or fluorescent lamps



BEFORE YOU BEGIN

Read instructions completely and carefully.



WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY, OBSERVE THE FOLLOWING:

- 1) Use this unit in the manner intended by the manufacturer.
- 2) Before servicing or altering switch power off.



For use inside a commercial refrigeration case with packaged foods only.

FOR YOUR SAFETY

Read and observe all CAUTIONS and WARNINGS shown throughout these instructions. While performing installations described, gloves, safety glasses or goggles should be worn.



PREPARE ELECTRICAL WIRING

Electrical requirements

- This appliance must be supplied with 240V, 50/60 Hz., and connected to an individual properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker or time delay fuse.

Grounding Instructions-Cable Direct

This lighting system must be connected to a grounded metal, permanent wiring system, or an equipment grounding conductor must be run with the system conductors and be connected to the equipment grounding terminal or lead on the lighting fixture.

1 Removing Fluorescent Lighting



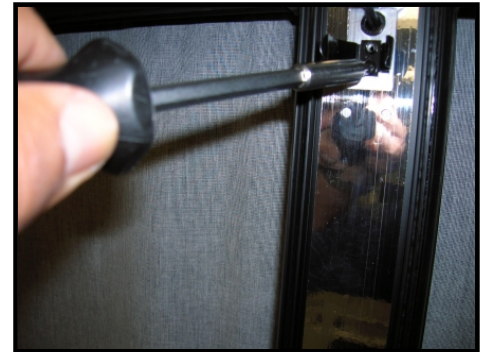
1.1 Detach lens assembly by disengaging the top, middle and bottom clips.

1.2 Remove fluorescent light bulb.

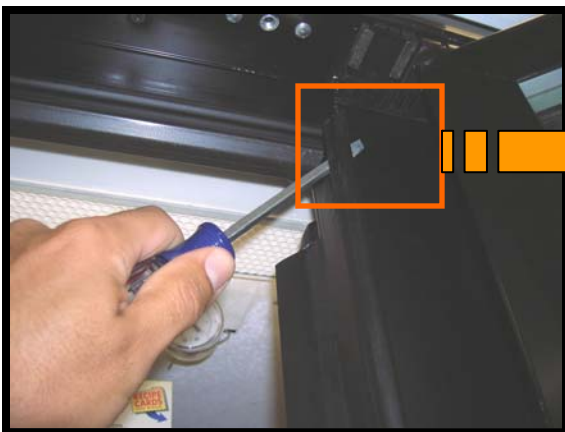


1.3 Remove lamp sockets.

1.4 Remove Socket Clips
Top and Bottom



Remove Sealing Plates



1.5 Remove sealing plate by inserting a flat screwdriver under the retaining strip starting at the top as illustrated. Repeat for the other side of the Mullion.



Note: Remove metal reflectors prior to mounting LED fixtures if applicable.

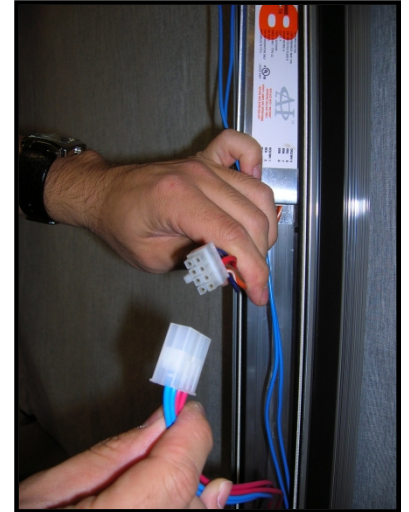
Remove Ballasts



1.6 With the ballast exposed, remove the screws located at the top and bottom.
Note: Do not discard screws, they will be used for mounting the drivers.



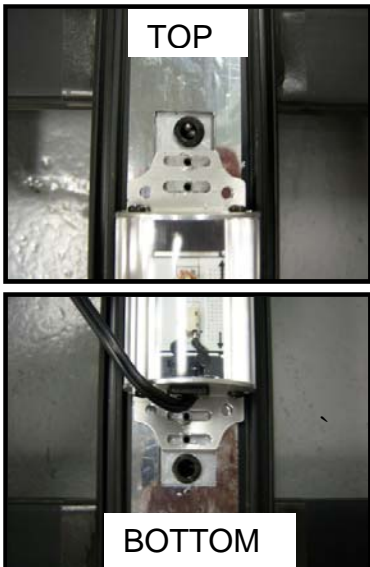
1.7 Unplug power and light connectors.



Note: Remove and dispose of existing ballasts per any local or Federal guidelines.

2

Installing LED fixtures



2.1 Place LED fixture on mullion making sure slots line up with existing holes in the frame for **60"** light fixture only.



2.2 Peel off tape liner from back of the fixture prior to installation.



2.3 Attach LED fixtures to mullion using four #6 -32 X 3/8 screws (supplied).



2.4 Feed wires through bottom wire access hole.



2.5 Cover exposed holes using supplied seal foam tape as shown (top of light fixture).



2.6 Connect wires from LED fixture to **Black and Red** wires from wire assy. Using Wago connector Part# **773-162** or other approved connector as shown.

Note: Seal any open holes using neutral cure silicone to prevent air infiltration.

Installing 72" LED fixtures



2.7 Place LED fixture on mullion making sure that slots line up with existing bottom holes in the frame and attach it using screws as seen on step 2.4.



2.8 Using fixture as a template, drill two Ø.106 (#36) holes through center and end mullions making sure wires inside mullions don't get damaged.



2.9 Seal upper holes using supplied foam tape as shown.

3

Driver Installation

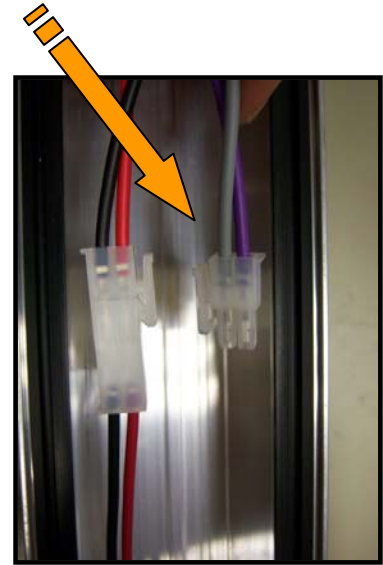
***To be used for dimming.**



3.1 Install Driver in the same location where the ballast was fitted using existing self-tapping screws. (Driver may have to be moved up or down to coincide with hole pattern)



3.2 Attach ground wire from frame power harness as shown.



3.3 Connect light wires to LED fixture to wire assembly as shown.

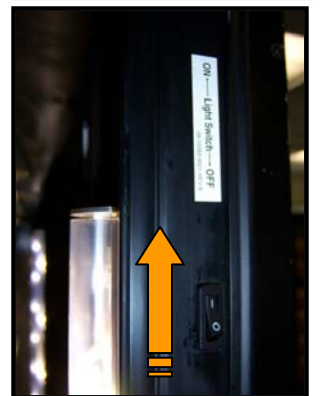
***Optional power connection**



3.4 Connect driver's input wires (Blue and White) to power harness from frame as shown.

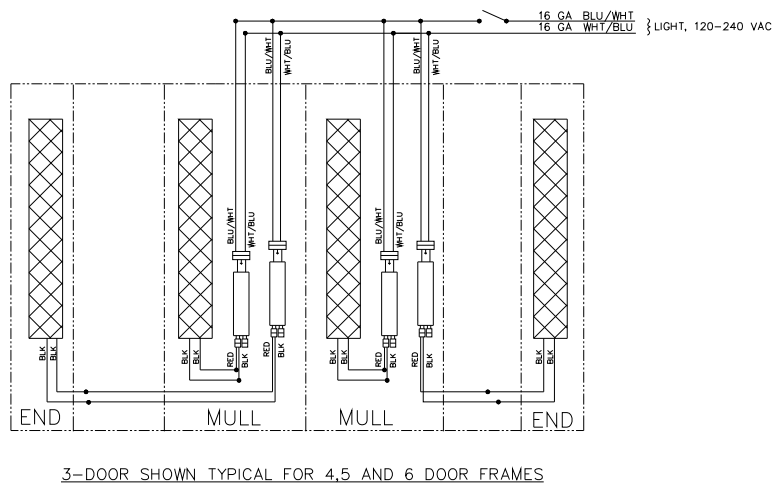
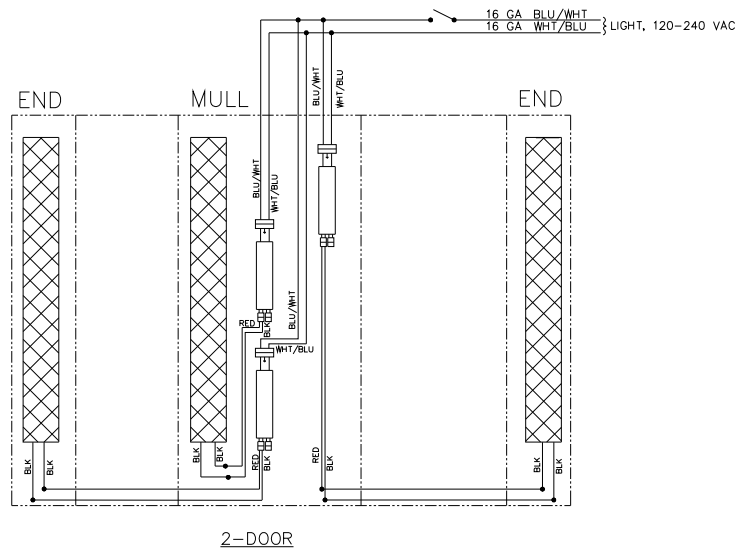
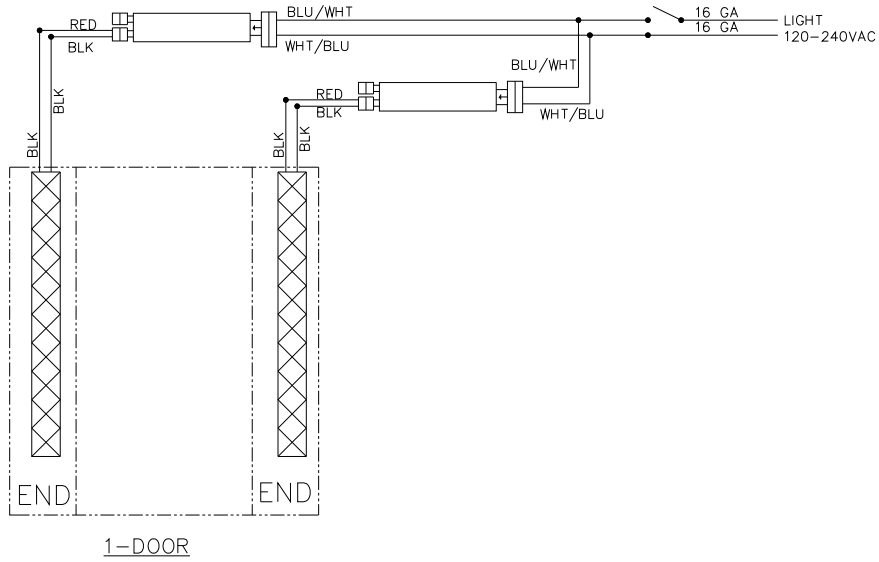


3.5 If no connector is found on driver, cut off power wires from frame harness as shown and connect wires together using Wago connector Part# **773-162** or other approved connector.

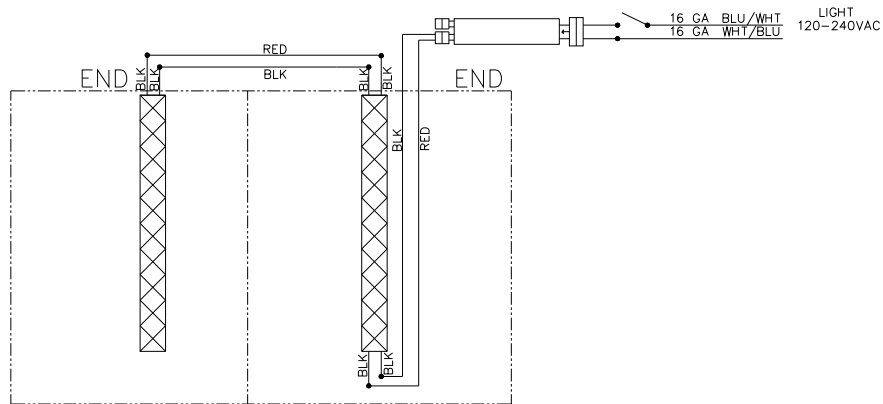


Reinstall sealing plates and **power up!**

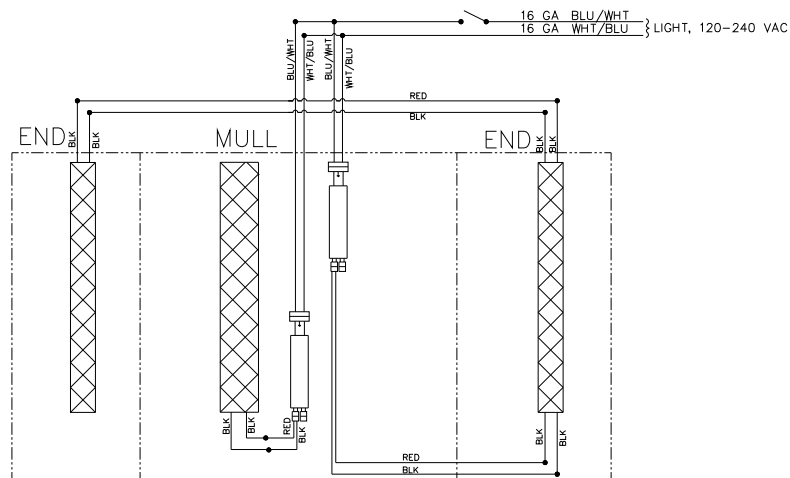
Wiring diagrams for all centers only



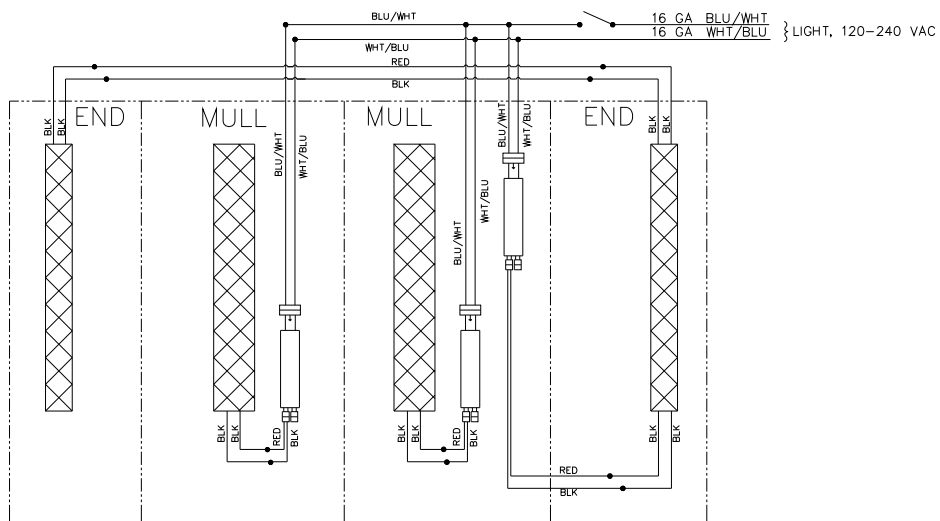
Wiring diagrams for centers and ends only



-0001 (ONE DOOR)



-0002 (2-DOOR)



-0003 (3-DOOR)

Continued

