

OptiMax Pro Installation Instructions

WARNINGS AND IMPORTANT NOTES

All work performed must be done by a qualified electrician. Local and national electrical codes must be followed in the refurbishment of the lighting system.

Part numbers referenced in the following instructions can be purchased from Anthony Inc. Parts Department if they are not available at your location.



WARNING – Risk of fire or electric shock. Luminaires wiring, or other electrical parts may be damaged when drilling for installation hardware. Check for enclosed wiring and components.



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.



WARNING – Risk of fire or electric shock. Install this kit only in the luminaires that has the construction features shown in the photographs and / or drawings.



WARNING – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.



INSTALLATION OF THIS RETROFIT ASSEMBLY REQUIRES A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF ELECTRICAL SYSTEMS AND THE HAZARD INVOLVED.



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 cleaning switch power off.



Turn power off before removing existing lighting system and follow appropriate lock out/ tag out safety procedures.



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

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

Safety

Proper safety equipment includes:



safety glasses



work gloves



work shoes



TURN OFF ALL ELECTRICAL POWER PRIOR TO BEGINNING WORK ON THE DOOR OR ON ANY ELECTRICAL. USE EXTRA CAUTION WHEN WORKING WITH OR AROUND THE DOOR GLASS PACKAGE.

Tools

Tools required for this procedure include:

TOOLS

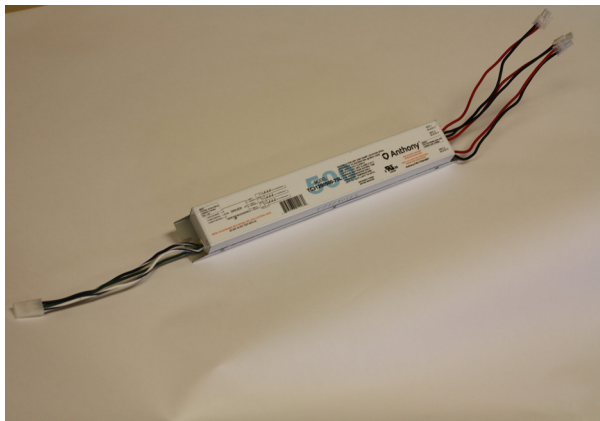
#2 Phillips-head screwdriver	Rubber or plastic mallet
Cordless drill w/attachments	Flat-head screwdriver
Needle-nose pliers	Wire stripper and cutter

TIPS

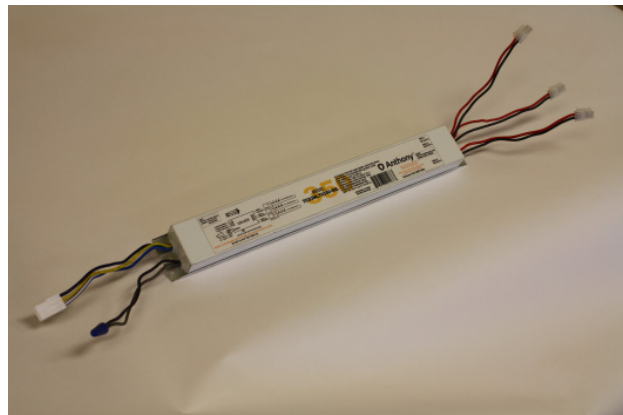
- Complete replace of wire assemblies is recommended whenever required. Splice wires only if necessary using proper materials such as, electrical tape, wire nuts, flux core solder and heat shrink.
- Apply liquid soap to rail plastic covers and gaskets upon installation to facilitate insertion into mounting grooves.
- Keep doors and frames clean for product efficiency. This can also help reduce energy consumption and potential health hazards.
- Whenever binding gasket or plastic parts, use food grade silicone.
- Always use the correct tool for the job to be performed. This ensures proper installation and minimizes safety risks.

PARTS LIST

LED Power Supply Part No.



60-17544-0001
(High Power- 500 mA, 120 VAC only)



60-18557-0001 (Gray and violet wires need to be shorted together for 100% output.)
(Low Power- 350 mA, 100-240 VAC)



Center (60-18184-XXX)



End (60-18185-XXX)

Optimax Pro LED Lighting

Description	Center Fixture Part No.	Color Temp (K)
72" Light Fixture	60-18184-0102	4000
60" Light Fixture	60-18184-0001	4000
48" Light Fixture	60-18184-0003	4000
36" Light Fixture	60-18184-0004	4000
30" Light Fixture	60-18184-0005	4000
24" Light Fixture	60-18184-0006	4000
Description	Left End Fixture	Color Temp (K)
72" Light Fixture	60-18185-0102	4000
60" Light Fixture	60-18185-0001	4000
48" Light Fixture	60-18185-0003	4000
36" Light Fixture	60-18185-0004	4000
30" Light Fixture	60-18185-0005	4000
24" Light Fixture	60-18185-0006	4000
Description	Right End Fixture	Color Temp (K)
72" Light Fixture	60-18185-1102	4000
60" Light Fixture	60-18185-1001	4000
48" Light Fixture	60-18185-1003	4000
36" Light Fixture	60-18185-1004	4000
30" Light Fixture	60-18185-1005	4000
24" Light Fixture	60-18185-1006	4000
Optimax Pro Lighting		
Description	Center Fixture Part No.	Color Temp (K)
72" Light Fixture	60-18184-3102	3500
60" Light Fixture	60-18184-3001	3500
48" Light Fixture	60-18184-3003	3500
Description	Left End Fixture	Color Temp (K)
72" Light Fixture	60-18185-3002	3500
60" Light Fixture	60-18185-3101	3500
48" Light Fixture	60-18185-3003	3500
Description	Right End Fixture	Color Temp (K)
72" Light Fixture	60-18185-4002	3500
60" Light Fixture	60-18185-4101	3500
48" Light Fixture	60-18185-4003	3500

OPTIONAL WIRE ASSEMBLY

Part Number	Description	Length
60-16404-0005	Wire plug assembly	6 foot
60-16404-0003	Wire plug assembly	6 inches

REMOVING EXISTING LIGHTING SYSTEM

1. Remove the following items:
 - a Lens
 - b Fluorescent lamps
 - c Lamp holder
 - d Mounting clips
 - e Ballasts from existing lighting system
- 2 For 401D, 1KDR and ELS only:
 - a Remove Mullion cover using a flat screwdriver.
 - b Remove the raceway cover by inserting a flat screwdriver into the seam between the metal raceway and the plastic cover and pry open.

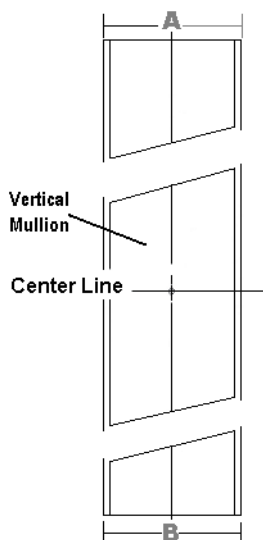
NOTE: Refer to case manufactures instructions for any questions on removing the fluorescent system and ballast.

- 3 Seal any open holes on Mullion using neutral cure silicone sealant (not provided).
- 4 Make sure you save the two #8 tapping screws used to hold the ballast.

Locate, Drill and Mount the LED Fixture To Mullion



Prior to drilling make sure that there are no existing components inside the mullion in the areas marked off for the designated holes.



1. Using a ruler measure the total width of the Mullion at (A) and (B) and mark a vertical line half the total width near the top and bottom of the Mullion.
2. Mark a vertical line from the top of the Mullion to the bottom of the Mullion thru the lines measurement in [step 1](#).
3. Divide the vertical line distance in half and mark as a Center Line.
4. Position the center punch directly over at the intersection of the horizontal line and the vertical line (top, center and bottom) and establish a dimple.
5. Use a power drill and (1/8") 0.125" dia. drill bit, drill (1) hole at the intersection of the vertical center line and the horizontal lines.

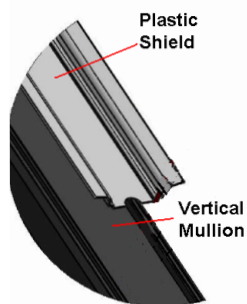


Figure 1

- 6 Referring to orientation of LED fixtures on 99-18901-I002_B (For web Only):
 - a If the electrical wires are at the top of LED Fixture, go to step e, if the electrical wires are at the bottom of the LED fixture go to [step b](#).
 - b Place the extrusion notch toward the bottom of the Mullion. Refer to Figure 1.

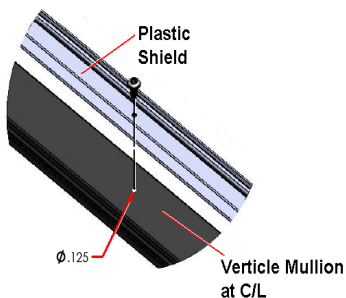
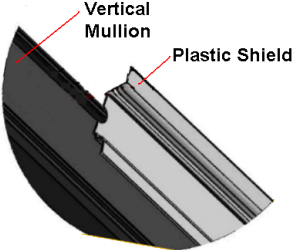
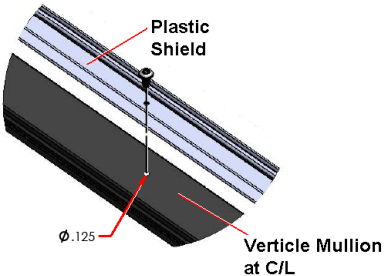
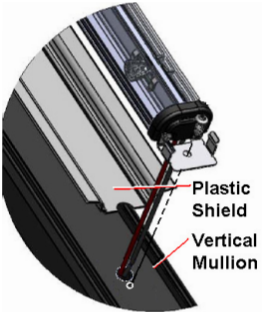
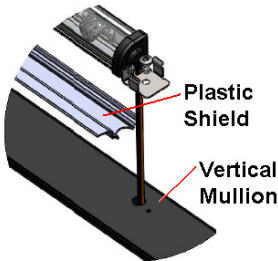
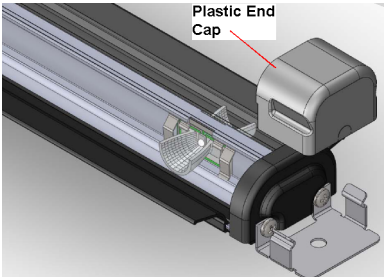


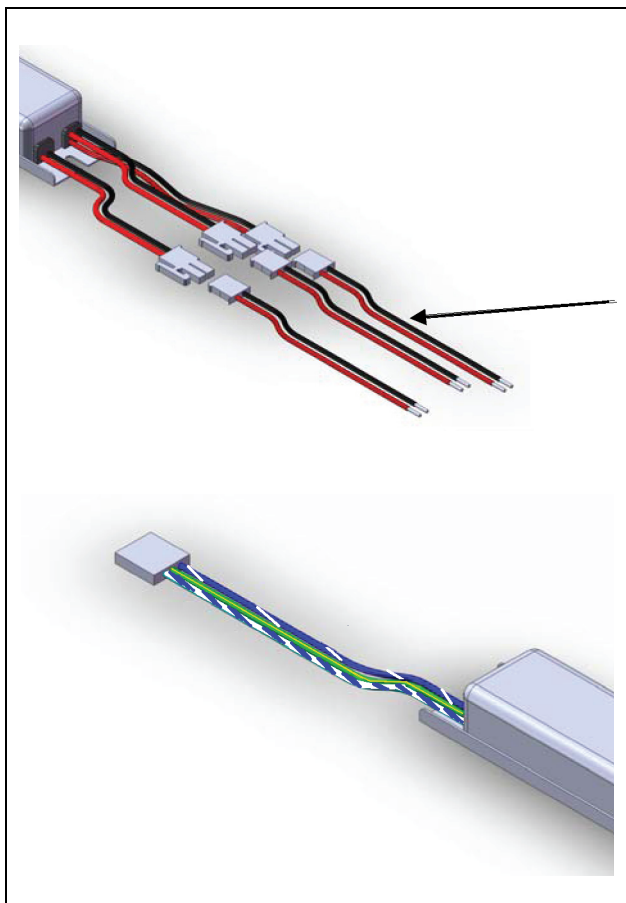
Figure 2

- c Using a Phillips screw driver, tread a #8 self- tapping screw through the plastic extrusion. Refer to Figure 2.
- d Continue to step 7.

 <p style="text-align: right;">Figure 3</p>	<p>e Place the plastic extrusion notch toward the top of the Mullion. Refer to Figure 3.</p>
 <p style="text-align: right;">Figure 4</p>	<p>f Using a Phillips screw driver, tread #8 self-tapping screw through the plastic extrusion. Refer to Figure 4.</p> <p>g Continue to step 7.</p>
 <p style="text-align: right;">Figure 5 Center</p>  <p style="text-align: right;">Figure 6 End</p>	<p>7 Position the center punch directly over the vertical line and within the plastic extrusion notched cutout, establish a dimple. Refer to Figure 5 Center.</p> <p>8 Use a power drill and (3/8") 0.375" dia. drill bit, drill (1) hole.</p> <p>9 Snap the LED fixture into the plastic extrusion. Refer to 99-18901-I002_B (For web use) and Refer to "PARTS LIST" on page 3.</p> <p>10 Thread the LED wires through the 3/8" hole.</p> <p>11 Align the LED fixture with the vertical lines made in step 2 and using a center punch, establish two dimples, one at the top and one at the bottom of the end clips.</p> <p>12 Use a power drill and (1/8") 0.125" dia. drill bit, drill (2) holes through the LED top and bottom mounting brackets through the plastic extrusion.</p> <p>13 Using a Phillips screw driver, tread #8 self-tapping screw through the plastic extrusion. Refer to Figure 5 (Center Mullion) and Figure 6 (Left End and Right End).</p>
 <p style="text-align: right;">Figure 7</p>	<p>14 Snap J-Box cover (refer Figure 7) on the wire-end of end clip.</p>

MOUNTING THE LED POWER SUPPLIES

High Power and Low Power Driver Connections



1. Install the LED power supply in the same location where the ballast was fitted or in the general location for ease of wire connection.
2. Mount the LED power supply using two #8 tapping screws saved when the ballast was removed.

NOTE: Installer may have to drill two holes in raceway to accommodate LED power supply.

NOTE: The LED power supply case is grounded. Attach the LED power supply to a ground point in the refrigerated case either directly with a screw or by using the green wire to attach to a remote point.

3. Connect LED Light fixture wire connectors to LED power supply using plug assembly provided. Refer to "OPTIONAL WIRE ASSEMBLY" on page 4.

NOTE: The OptiMax Pro fixtures are polarity sensitive. Pay close attention when wiring the red (+) wires of the fixture to red wires of the driver, and the black (-) wires of the driver.

4. Connect the primary LED power supply input 3-position plug (blue, green and white/blue wires) to the harness electrical 3-position plug (blue/white and white/blue wires).
5. Turn the power on and verify LED fixture(s) are working.
6. Reinstall raceway cover(s).

LED CLEANING INSTRUCTIONS

- The LED light may be dusted as needed with a dry, clean, soft cloth.
- The outer lens should be cleaned periodically with a mild dish detergent.
- Do not use chemical cleaners to clean the system.
- Keep the outside clean. Wipe with a clean cloth lightly dampened with mild dish washer detergent. Dry with a clean, soft cloth
- Do not wipe the lens with a soiled dish cloth or wet towel. These may leave a residue that can damage the finish.
- Do not use scouring pads, powered cleaners, bleach or cleaners containing bleach because these products can scratch and damage the finish.

