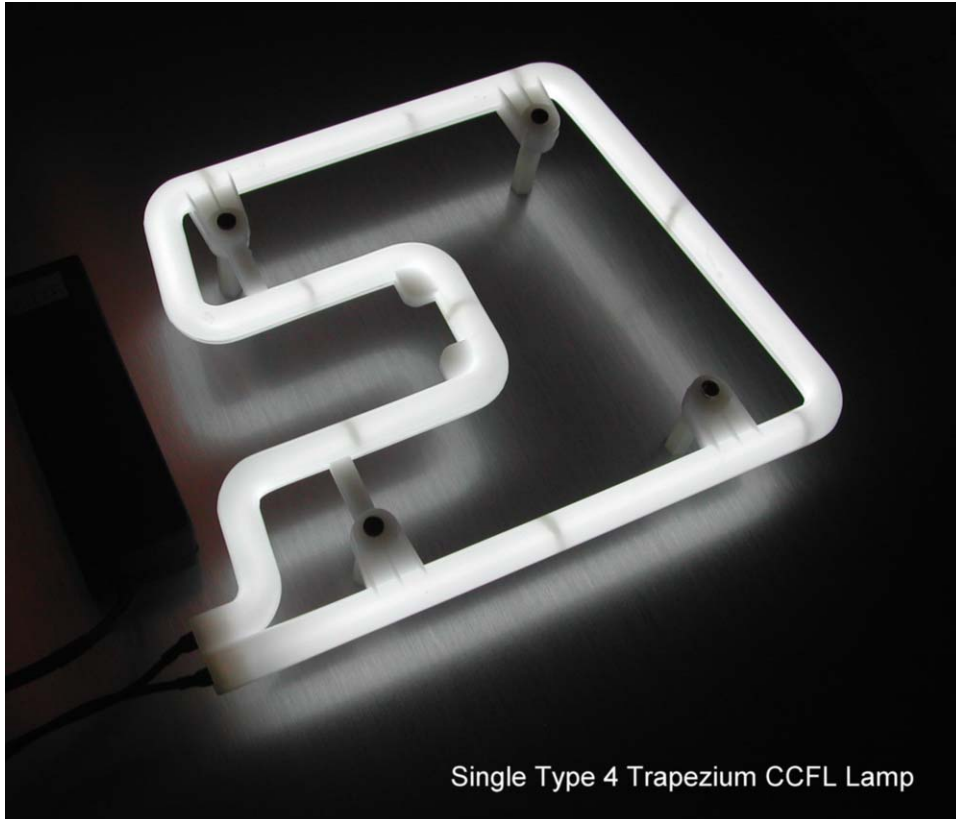




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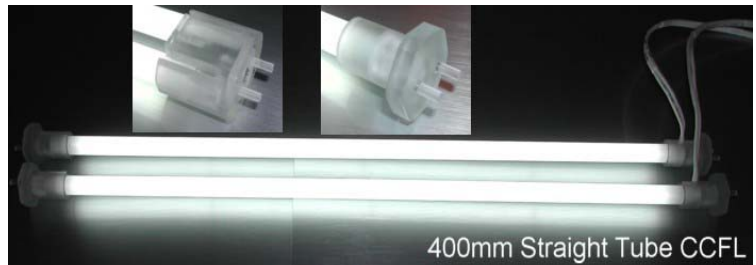
Cold Cathode Lighting Customer Retrofit Assembly Instructions



Single Type 4 Trapezium CCFL Lamp



Type 4 CCFL Retrofit Kit

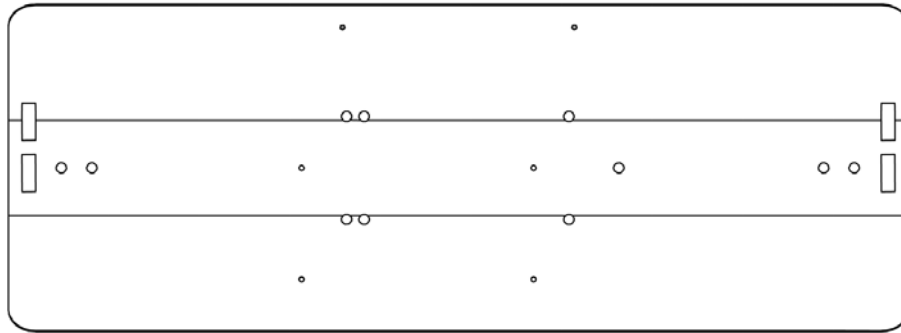


400mm Straight Tube CCFL

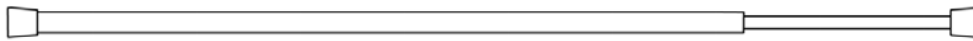
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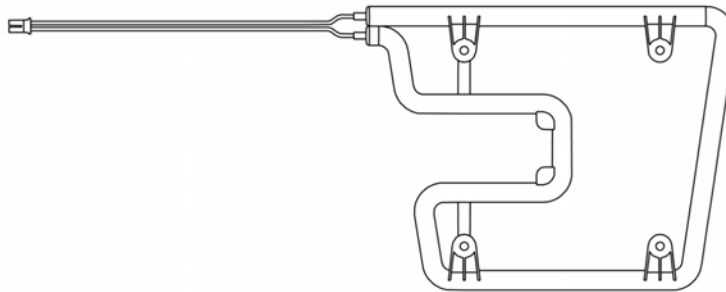
Parts List



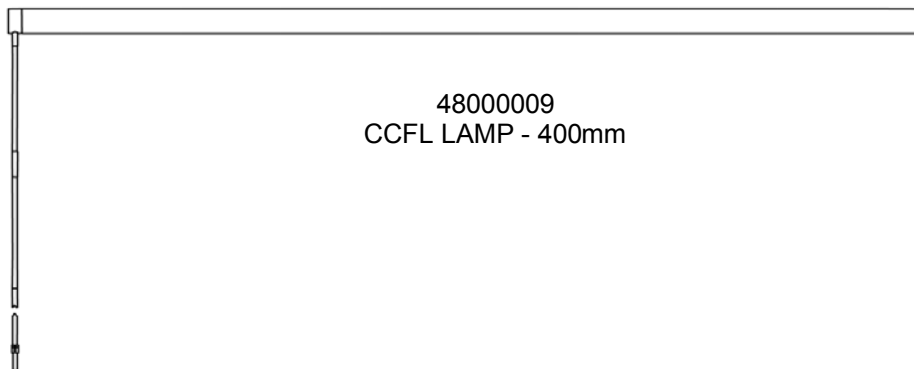
04480004
REFLECTOR



04090735
TENSION ROD

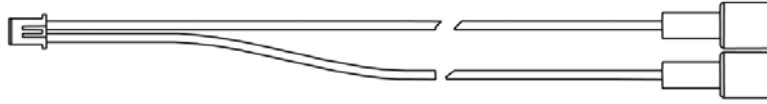


48000004
CCFL LAMP - TYPE 4



48000009
CCFL LAMP - 400mm

Parts List - CONTINUED



0928-000181
24VDC POWER HARNESS



0928-000182
8" DAISY CHAIN



0928-000190
24" DAISY CHAIN



0928-000183
AC ADAPTOR POWER HARNESS



48000011
CCFL DIMMER



0821-009111
3-WAY OUTLET

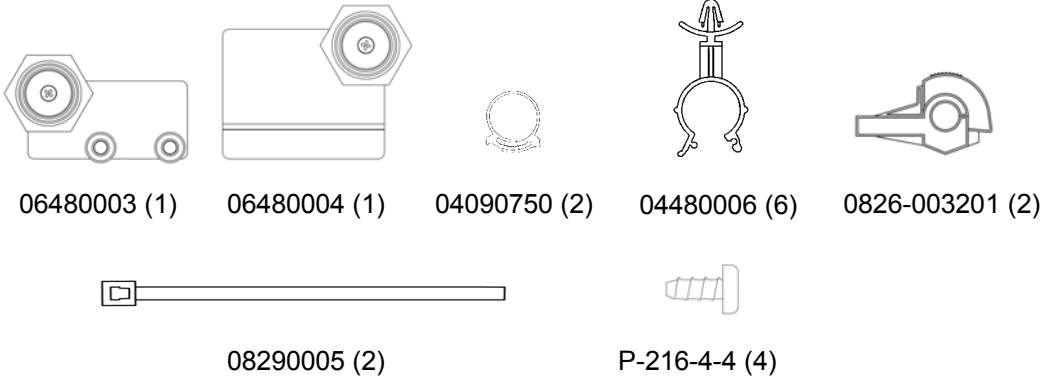


48120001
48120005
48240001
48240008
INVERTER

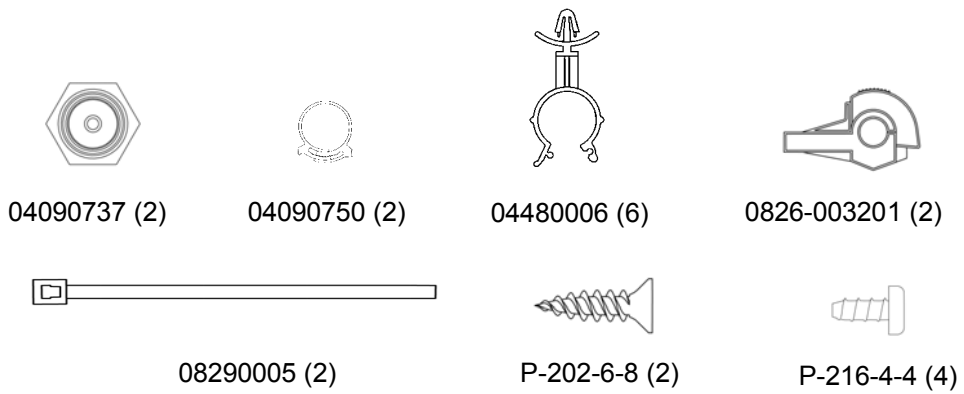


48000008
100/240VAC-12VDC ADAPTER

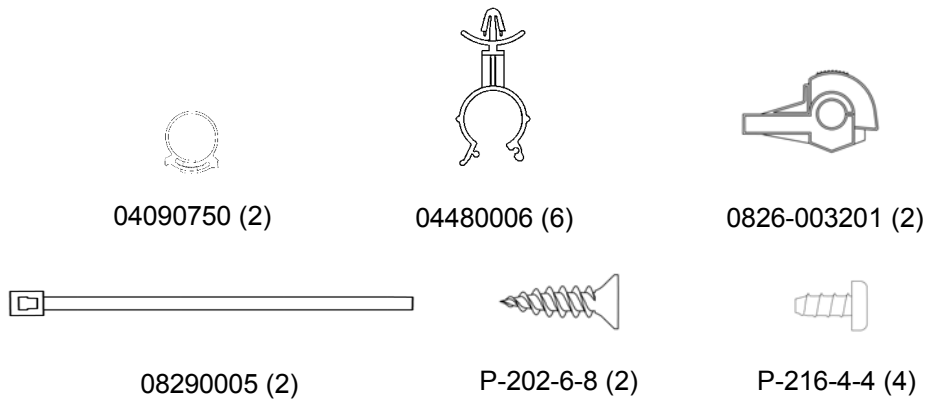
CCFL Kits



KIT# 50480002: HARDWARE KIT - IGT VIDEO

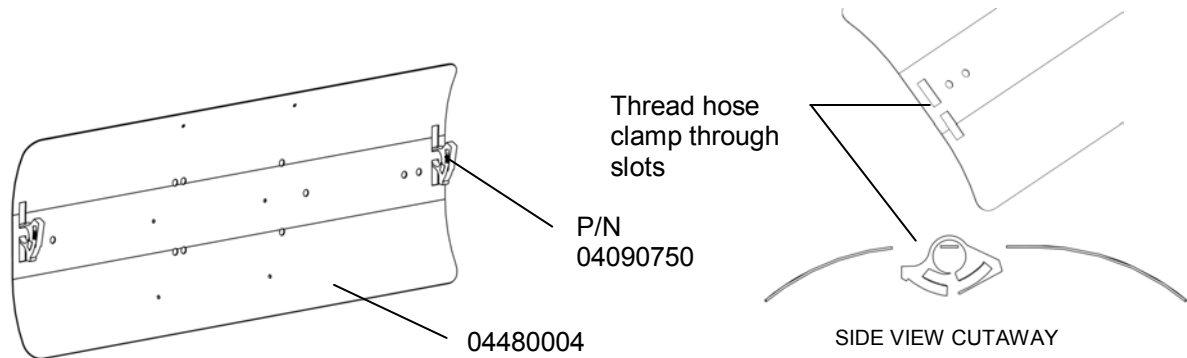


KIT# 50480003: HARDWARE KIT - WALL MOUNT

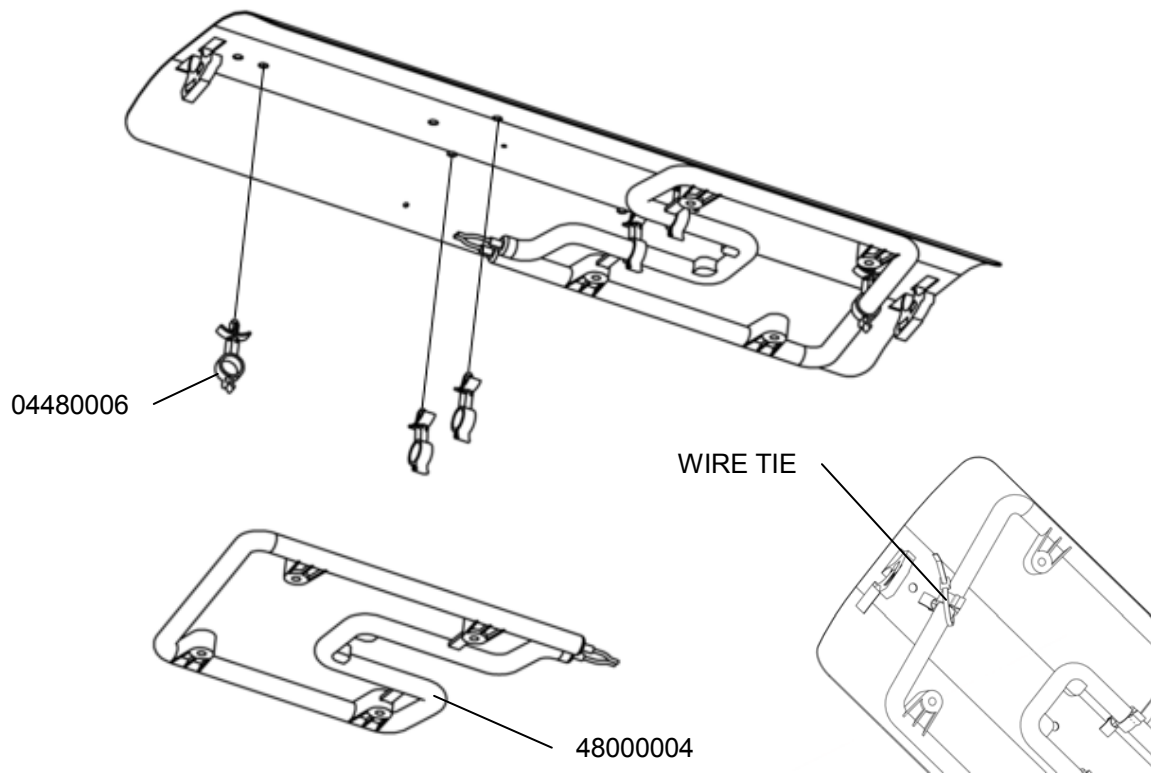


KIT# 50480004: HARDWARE KIT - SOCKET MOUNT

Reflector Assembly Instructions

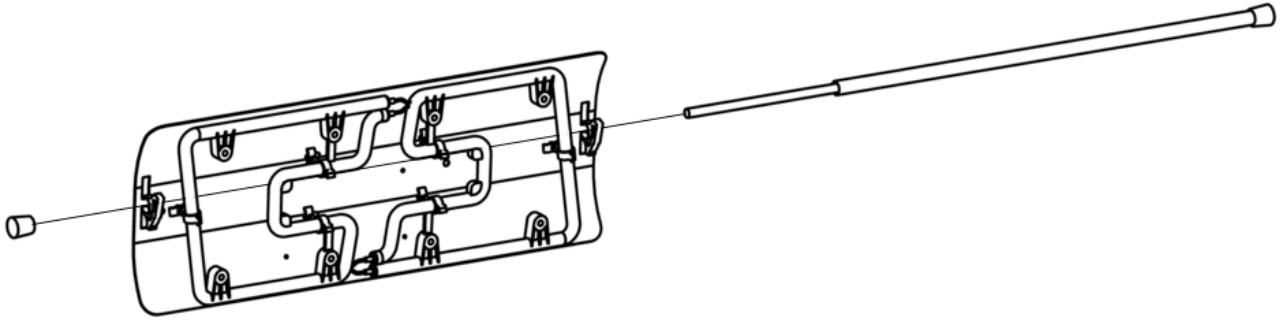


- Locate 04480004 reflector and assemble (2) 04090750 hose clamps as shown.



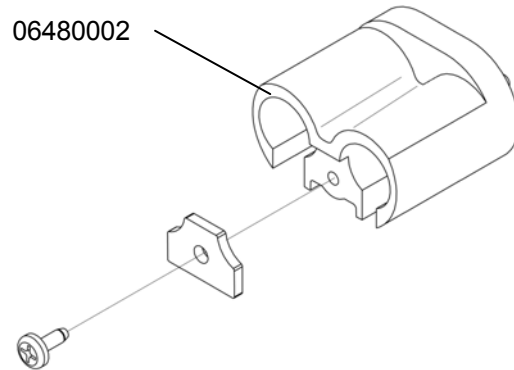
- Insert (6) 04480006 lamp stand-offs as shown.
- Assemble (2) 48000004 type 4 trapezium CCFL lamps as shown. Do not twist or bend lamps.
- Snap all (6) stand-offs to secure lamp(s).
- Assemble (2) 08290005 wire ties to secure lamps to stand-offs as shown.

Reflector Assembly Instructions - CONTINUED

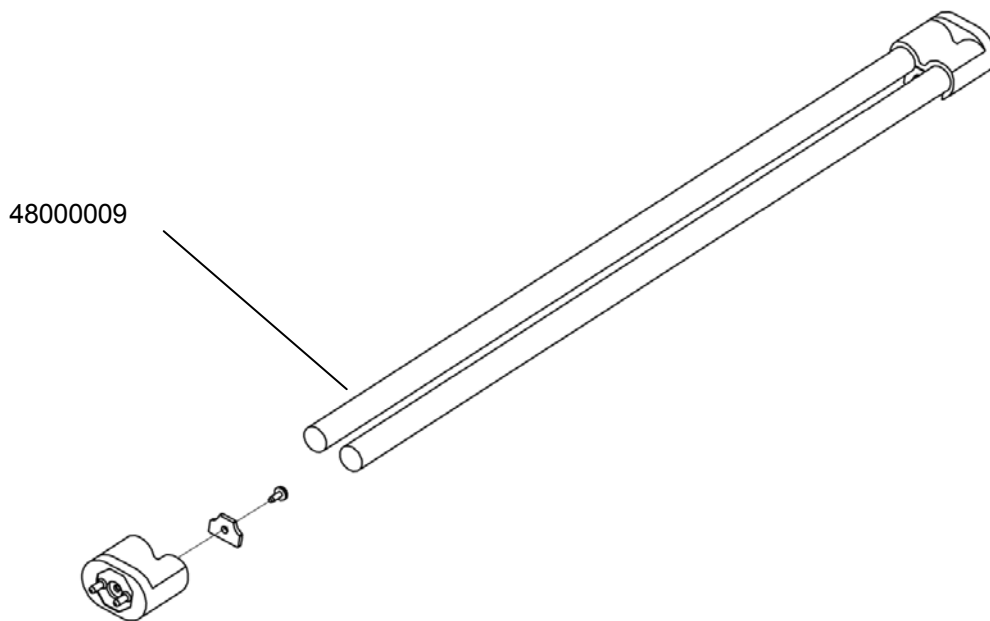


- Remove the rubber foot from the small diameter end of the 04090735 tension rod and insert it through the hose clamps as shown and then replace the rubber foot onto the rod.
- Squeeze ratcheting hose clamps to secure.

Dual 400mm Straight Lamp Assembly Instructions

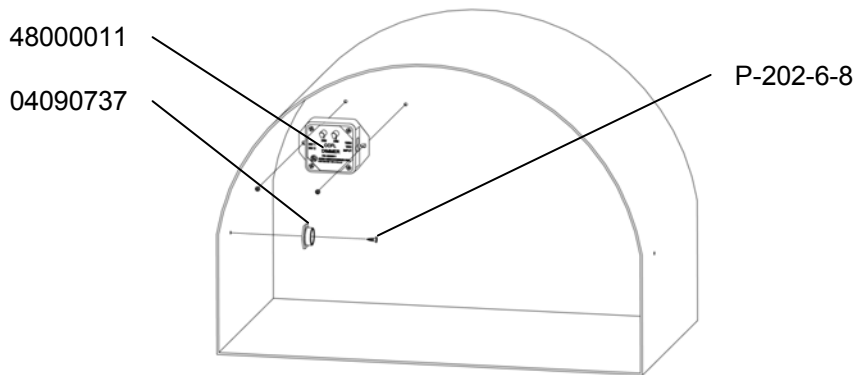


- Locate (2) 06480002 dual lamp endcap assemblies.
- Using a #1 Philips screw driver, remove the lock tabs from each and set aside.



- Locate (2) 48000009 400mm straight CCFL lamps and insert each end into the respective cavities of the dual lamp endcap assemblies as shown.
- Assemble one complete endcap assembly before finishing the other end.
- Replace the lock tabs as shown.

Top Box CCFL Installation Instructions



TOP BOX INSTALLATION INSTRUCTIONS

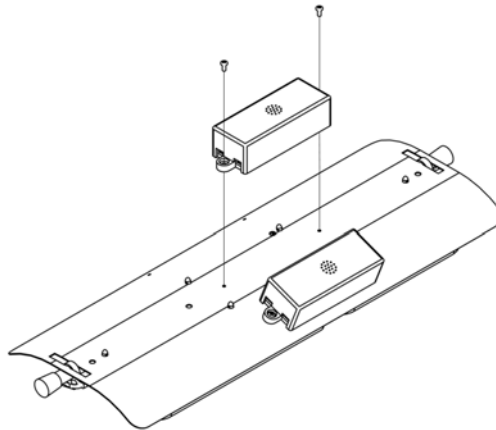
- Remove existing fluorescent tube from the top box.
- Unplug and remove the existing ballast and retain the (2) mounting screws or nuts.
- Locate 48000011 dimmer and install in the original location of the ballast using the (2) original mounting screws or nuts.
- Locate (2) 04090737 wall mount adapters and assemble to the left and right inside top box walls. with (2) P-202-6-8 screws as shown. Wall mount adapters should be 2-1/2" behind glass and centered vertically.

FOR 120VAC POWER

- Locate 48000008 100/24VAC – 12VDC adapter and lay adapter in the bottom left hand side of the cabinet bottom. Plug into the 0821-009111 Tri-Outlet adapter, or if there is a power outlet strip located in the cabinet base, you can alternatively plug into it as shown in 120VAC wiring detail.

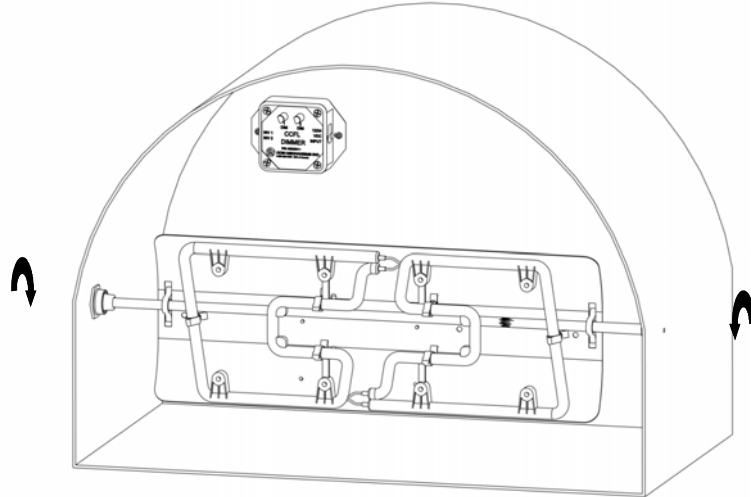
FOR 24VDC POWER

- Locate (2) 0826-003291 female T-tap receptacles and assemble them to the 24VDC power and ground wires in the belly glass area as shown in the 24VDC wiring detail.



- Locate a reflector assembly that has been assembled per the CCFL reflector assembly instructions. Fasten (2) 48120001 – 12VDC inverters (for 120VAC power) or ((2) 48240001 – 24VDC inverters (for 24VDC power) to the CCFL reflector using (4) P-216-4-4 screws as shown.

Top Box CCFL Installation Instructions - CONTINUED



- Position reflector assembly such that the inverter closest to edge is facing down (for balance).
- Extend the tension rod by rotating counter clockwise as shown such that the ends of the tension rod are captivated in the (2) 04090737 wall mount adapters as shown. Rod will be under compression tension when adjusted properly.

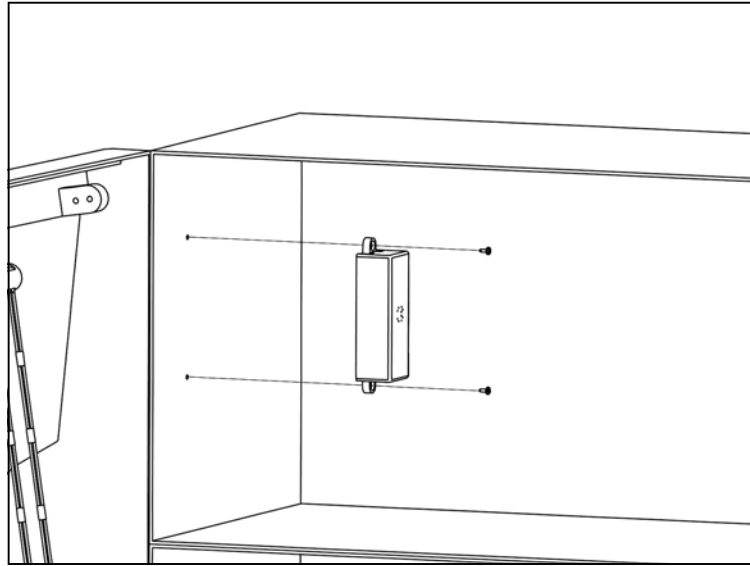
FOR 120VAC POWER - cont'd

- Locate 0928-000183 AC Adapter power harness and plug into both the 48000008 AC Adapter and one of the 48120001 – 12VDC inverters as shown in the belly glass 120VAC wiring diagram.
- Locate 0928-000182 8" daisy chain harnesses and connect both of the 48120001 – 12VDC inverters as shown in the belly glass 120VAC wiring diagram.

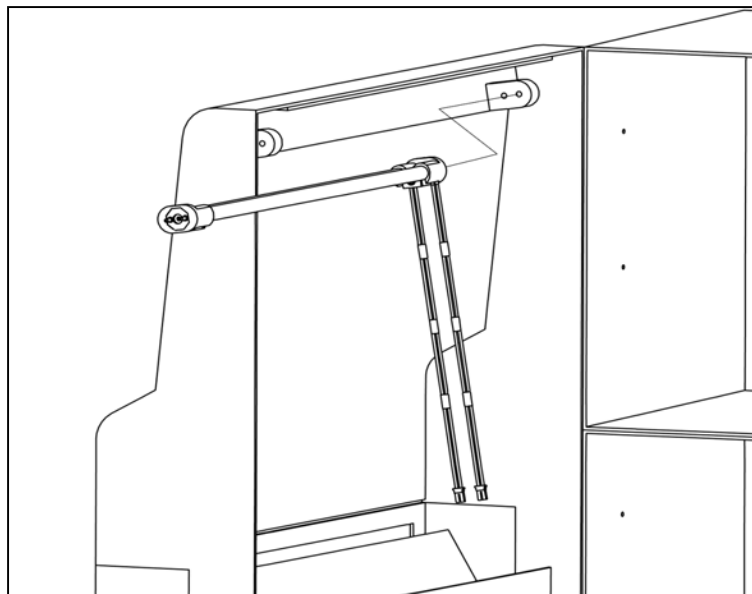
FOR 24VDC POWER - cont'd

- Locate the 0928-000181 24VDC power harness, and plug into the (2) 0826-003291 female T-tap receptacles as shown in the 24VDC wiring detail. Be sure to observe the polarity of the DC source. Plug the other end into one of the 48240001 – 24VDC inverters as shown in the reel glass 24VDC wiring diagram.
- Locate 0928-000182 8" daisy chain harnesses and connect both of the 48240001 – 24VDC inverters as shown in the belly glass 24VDC wiring diagram.

Reel Glass CCFL Installation Instructions

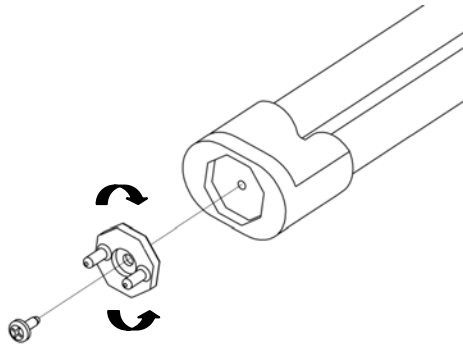


- Remove existing fluorescent tube from the reel glass area.
- Unplug and remove existing ballast.
- Fasten 48120005 – 12VDC inverter (for 120VAC power) or 48240008- 24VDC inverter (for 24VDC power) to the hinge side of the cabinet wall using (2) P-202-6-8 screws as shown.



- Locate a dual 400mm straight lamp assembly and insert the assembly into the existing fluorescent sockets as shown.

Reel Glass CCFL Installation Instructions - CONTINUED



- It may be necessary to reposition the CCFL lamps relative to the surface that you are trying to illuminate. To accomplish this:
 1. Loosen the screw that retains the (8) position fluorescent socket adapter on each of the endcaps.
 2. Re-position the adapter so that when the pins are inserted into the fluorescent socket, the tubes are oriented as desired. Re-tighten the retaining screws.
- For 120VAC power - Plug the (2) 48000009 type 40 400MM CCFL lamps into the 48120005 – 12VDC inverters as shown in the reel glass 120VAC wiring diagram.
- For 24VDC power - Plug the (2) 48000009 type 40 400MM CCFL lamps into the 48240008 – 24VDC inverters as shown in the reel glass 24VDC wiring diagram.

For 120VAC power

- Locate 48000008 100/24VAC – 12VDC adapter and lay adapter in the bottom left hand side of the reel shelf area. Route the line cord down through the cabinet and plug into the 0821-009111 Tri-Outlet adapter as shown in 120VAC wiring detail. If there is a power outlet strip located in the cabinet base, you can alternatively plug into it.
- Locate 0928-000183 AC Adapter power harness and plug into both the 48000008 AC Adapter and the 48120005 – 12VDC inverter as shown in the reel glass 120VAC wiring diagram.

For 24VDC power

- Locate (2) 0826-003201 female T-tap receptacles and assemble them to the 24VDC power and ground wires in the reel glass area as shown in the 24VDC wiring detail.
- Locate the 0928-000181 24VDC power harness, and plug into the (2) 0826-003201 female T-tap receptacles as shown in the 24VDC wiring detail. Be sure to observe the polarity of the DC source. Plug the other end into the 48240008 – 24VDC inverter as shown in the reel glass 24VDC wiring diagram.

Belly Glass CCFL Installation Instructions

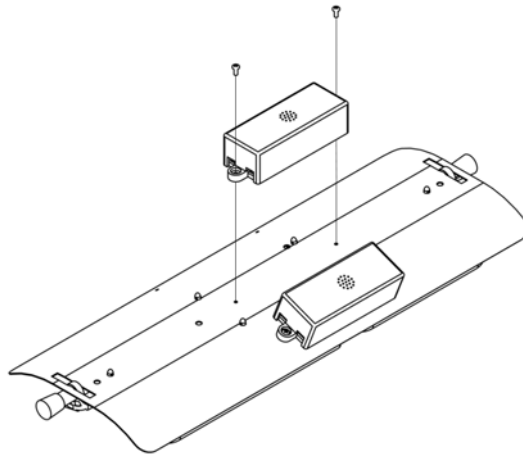
- Remove existing fluorescent tube from the Belly Glass area.
- Unplug and remove the existing ballast.

For 120VAC power

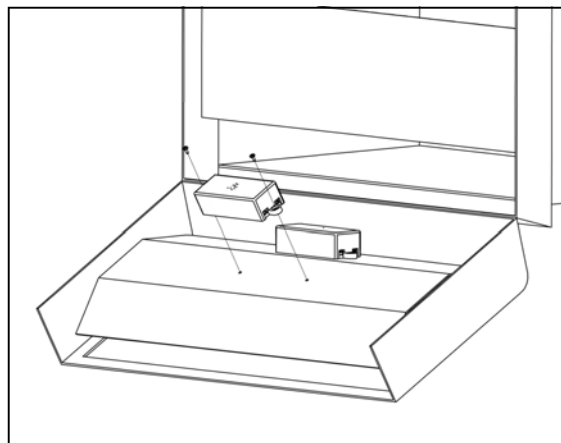
- Locate 48000008 100/24VAC – 12VDC adapter and lay adapter in the bottom left hand side of the cabinet bottom. Plug into the 0821-009111 Tri-Outlet adapter, or if there is a power outlet strip located in the cabinet base, you can alternatively plug into it as shown in 120VAC wiring detail.

For 24VDC power

- Locate (2) 0826-003291 female T-tap receptacles and assemble them to the 24VDC power and ground wires in the belly glass area as shown in the 24VDC wiring detail.

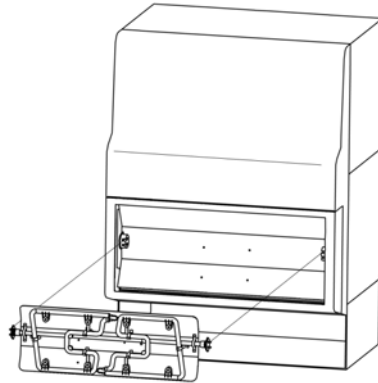


- Locate a reflector assembly that has been assembled per the reflector assembly instructions.
- If the depth of the belly glass area will allow - Fasten (2) 48120001 – 12VDC inverters (for 120VAC power) or ((2) 48240001 – 24VDC inverters (for 24VDC power) to the CCFL reflector using (4) P-216-4-4 screws as shown.

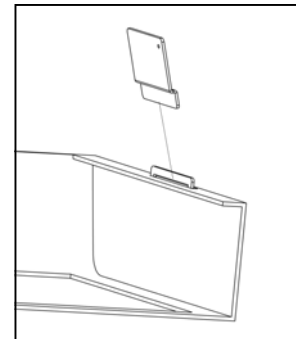
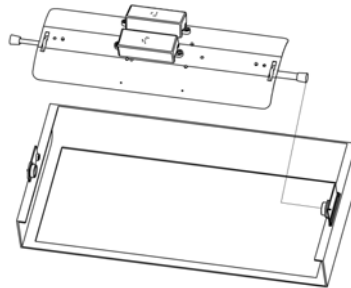
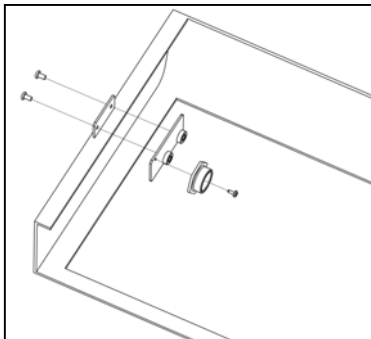


- Alternatively, if the area is too shallow, fasten the inverters to the machines reflector using the (4) P-216-4-4 screws as shown.

Belly Glass CCFL Installation Instructions - CONTINUED



- Remove the rubber feet from the tension rod and assemble (2) 04480021 socket adapters in their place. Extend the tension rod by rotating counter clockwise and insert the assembly into the existing fluorescent sockets shown.



For IGT Video Machines

- Remove the entire existing IGT reflector assembly by removing the two retaining screws on the left hand side, and by tilting the assembly up and out.
- Locate the IGT adapter brackets 06480003 (left hand) and 06480004 (right hand).
- Assemble the 06480003 (left hand) bracket using the two captive screws in the bracket s shown.
- Assemble the 06480004 (right hand) by tilting it into the notch as shown.
- Position reflector assembly such that the inverter closest to edge is facing down (for balance).
- Extend the tension rod by rotating counter clockwise and insert the assembly into the wall mount adapters that are already mounted to the IGT adapter brackets as shown. Rod will be under compression tension when adjusted properly.

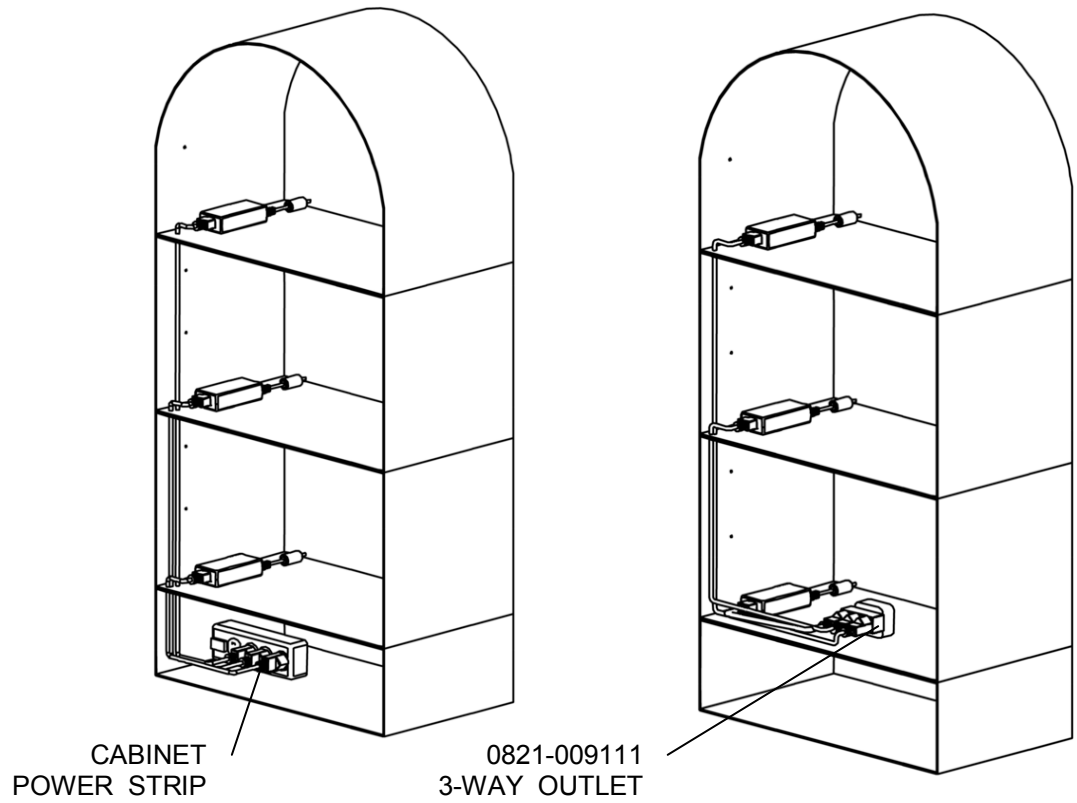
For 120VAC Power – cont'd

- Locate 0928-000183 AC Adapter power harness and plug into both the 48000008 AC Adapter and one of the 48120001 – 12VDC inverters as shown in the belly glass 120VAC wiring diagram.
- Locate 0928-000182 8" daisy chain harnesses and connect both of the 48120001 – 12VDC inverters as shown in the belly glass 120VAC wiring diagram.

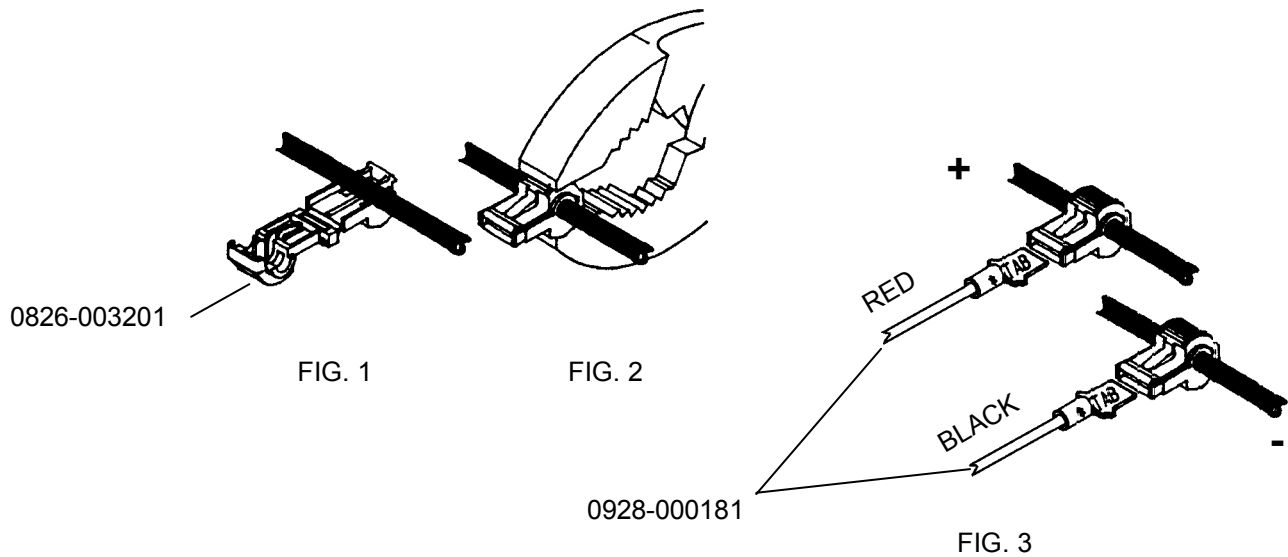
For 24VDC Power – cont'd

- Locate the 0928-000181 24VDC power harness, and plug into the (2) 0826-003291 female T-tap receptacles as shown in the 24VDC wiring detail. Be sure to observe the polarity of the DC source. Plug the other end into one of the 48240001 – 24VDC inverters as shown in the reel glass 24VDC wiring diagram.
- Locate 0928-000182 8" daisy chain harnesses and connect both of the 48240001 – 24VDC inverters as shown in the belly glass 24VDC wiring diagram.

120VAC Wiring Detail

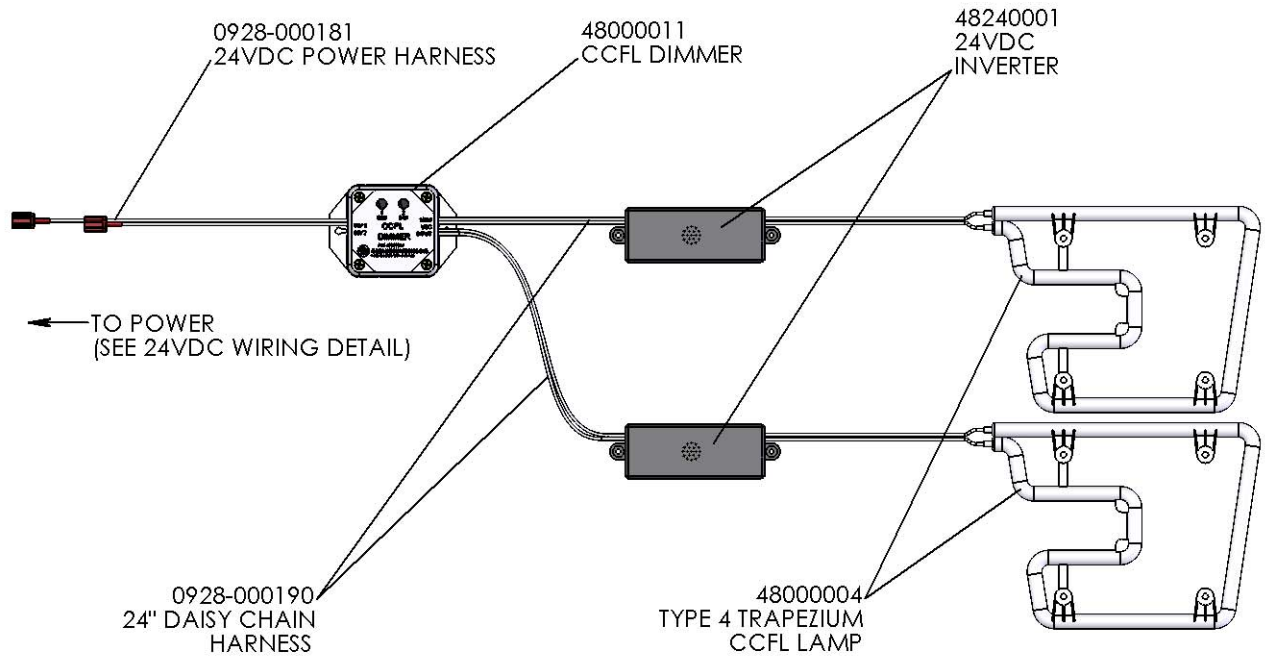


24VDC Wiring Detail

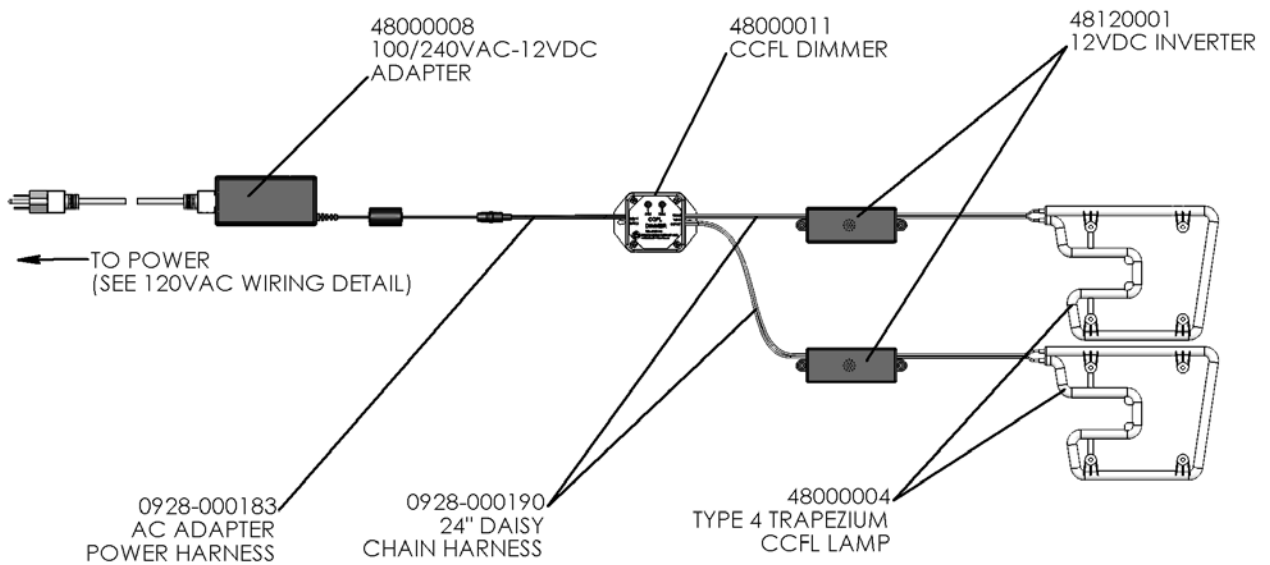


1. Locate wires carrying +24VDC and ground.
2. Position the female T-Tap receptacle 0826-003201 as shown in fig. 1 and lay +24VDC wire into the cavity opposite the insulation displacement contact.
3. Fold clam-shell in half, and using pliers, squeeze the halves together until the locking snap feature fully engages as shown in fig. 2.
4. Repeat steps 2 and 3 for the ground wire.
5. Insert the fully insulated male Quick connect terminal attached to the **red** wire of 0928-000181 24VDC power harness into the now installed female T-Tap which is attached to the +24VDC wire as shown in fig. 3.
6. Repeat step 5 for the black ground wire.

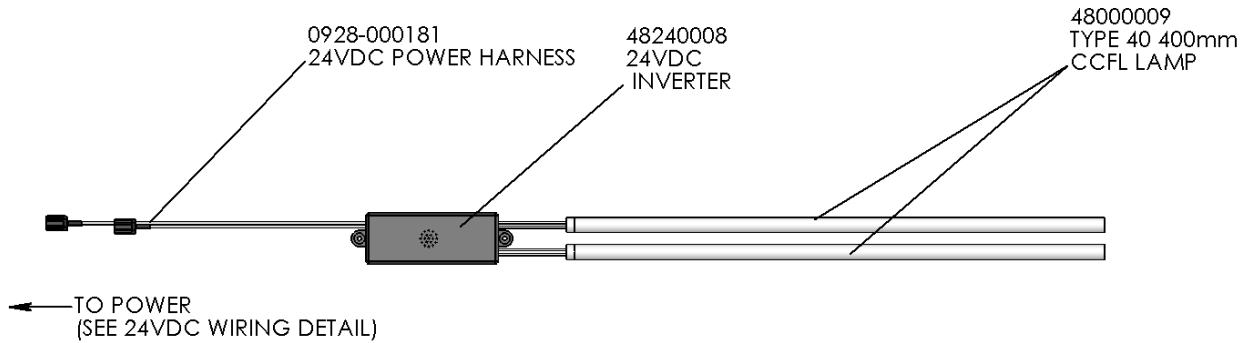
Top Box 24VDC Wiring Diagram



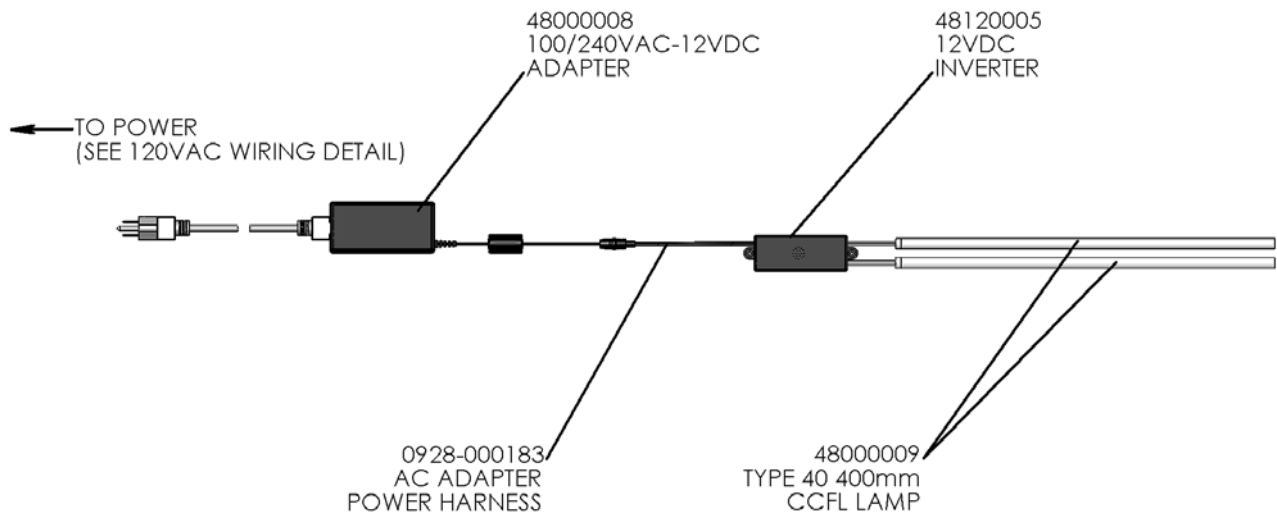
Top Box 120VAC Wiring Diagram



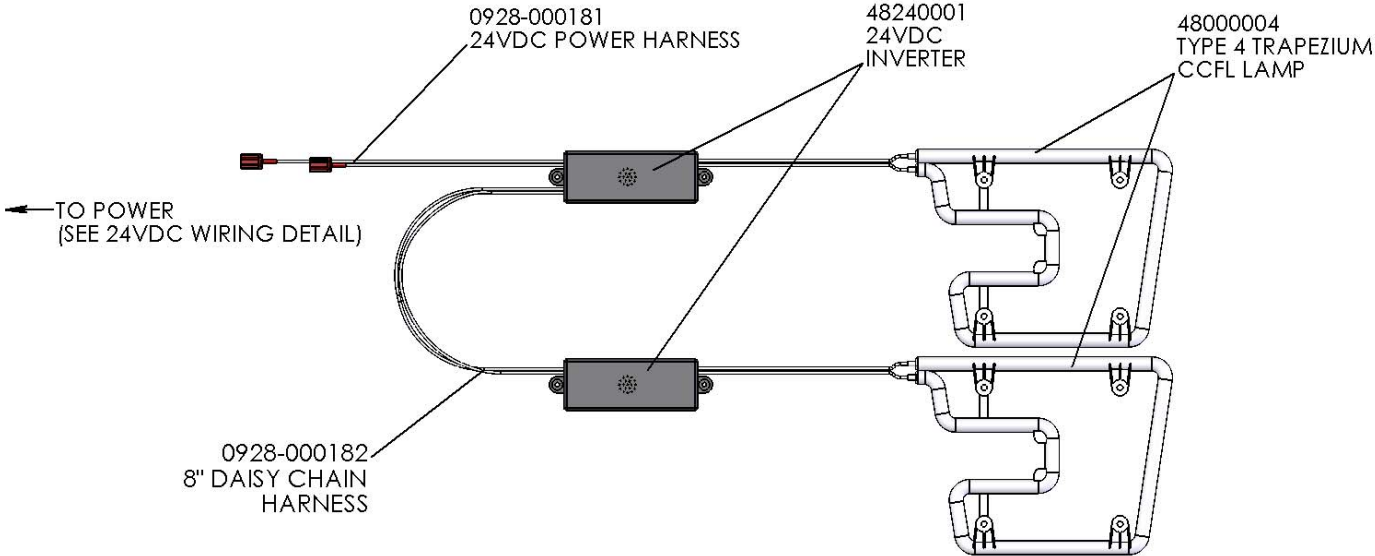
Reel Glass 24VDC Wiring Diagram



Reel Glass 120VAC Wiring Diagram



Belly Glass 24VDC Wiring Diagram



Belly Glass 120VAC Wiring Diagram

