



INSTALLATION INSTRUCTIONS

Pinnacle Merchandiser Upgrade Kit (P/N 629094255)

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Revision: C

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These instructions are not intended to cover all details or variations of the equipment, nor to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing, pneumatic, and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

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This document contains the original instructions for the unit described.

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SAFETY INSTRUCTIONS

SAFETY

WARNING:

Before starting installation, read and understand all safety label and warnings on the machine. Also review and understand all safety instructions in the owners, installation and service manuals.

Failure to comply could result in serious injury, death or damage to the equipment.

QUALIFIED SERVICE PERSONNEL

WARNING:

Only trained and certified electrical, plumbing and refrigeration technicians should service this unit.

All wiring and plumbing must conform to national and local codes. Failure to comply could result in serious injury, death or equipment damage.

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

WARNING:

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

Failure to comply could result in serious injury, death or damage to the equipment.

CAUTION:

Always be sure to keep area around the unit clean and free of clutter.

Failure to keep this area clean may result in injury or equipment damage.

INSTALLATION INSTRUCTIONS

APPLICATION:

Pinnacle 4 Barrel Units built with serial numbers beginning with 62xxxxx.

Merchandiser subtypes:

1. Type I: Pinnacle 4BRL with exposed light sockets and wire chase attached with rivets.



Figure 1. Front View

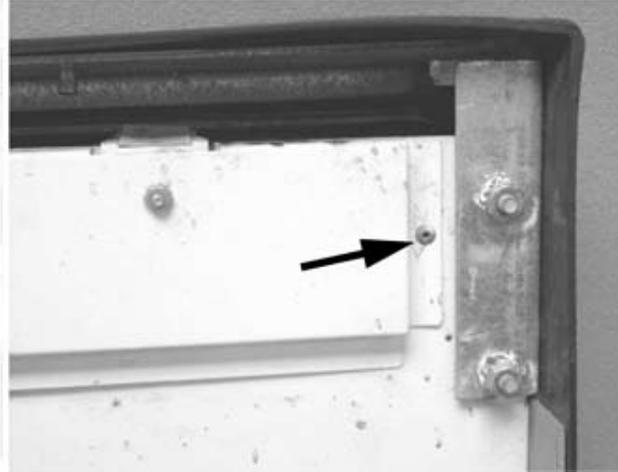


Figure 2. Back View

2. Type II: Pinnacle 2BRL covered with light sockets and wire chase attached with nuts and bolts.



Figure 3. Front View

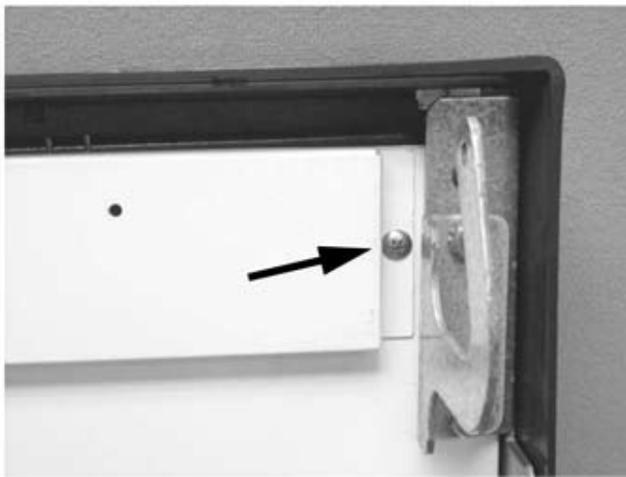


Figure 4. Back View

PARTS LIST

1. 2 Brackets (containing 1 ballast and 2 lamps).
2. 2 blue wire connectors (in plastic bag).
3. 10 Nuts (in plastic bag).
4. 6 screws (in plastic bag).



Figure 5.

TOOLS REQUIRED

1. #2 Phillips Screwdriver
2. Large Slotted Screwdriver
3. 11/32" Nut Driver (Green)
4. 5/16" Nut Driver (Yellow)
5. Side Cutters (wire Cutters)
6. Pliers (regulator or Lineman's)
7. Cordless Drill with 3/16" Bit



Figure 6.

GENERAL STEPS FOR KIT INSTALLATION

NOTE: These instructions cover both subtypes of the Pinnacle 4 barrel merchandiser. The instructions may vary depending on the subtype of the merchandiser being modified. The instructions will distinguish between subtypes by noting the appropriate subtype in brackets, such as (All subtypes) or (Type I)

IMPORTANT: Wait 3 minutes for inverter capacitors to discharge (All subtypes).

WARNING:

Disconnect power to the unit before servicing. Follow all lock out/tag out procedures established by the user. Verify all power is off to the unit before performing any work.

Failure to comply could result in serious injury, death or damage to the equipment.

1. Remove graphics and plastic cover from the front of Merchandiser (All subtypes).
 - A. See standard merchandiser, as shown in Figure 7.



Figure 7.

- B. Slide graphics up, as shown in Figure 8.



Figure 8.

2. Remove and discard lamp and foam block (All subtypes).

- A. Locate lamp sockets at top of U-tube lamps (2 each), Figure 9 and Figure 10 .



Figure 9.



Figure 10.

- B. Place thumbs on tabs, as shown in Figure 11.



Figure 11.

- C. Push forward on both tabs with thumbs while simultaneously pulling on lamp (see Figure 12), only pull lamp far enough to be out from under the inside of the merchandiser.

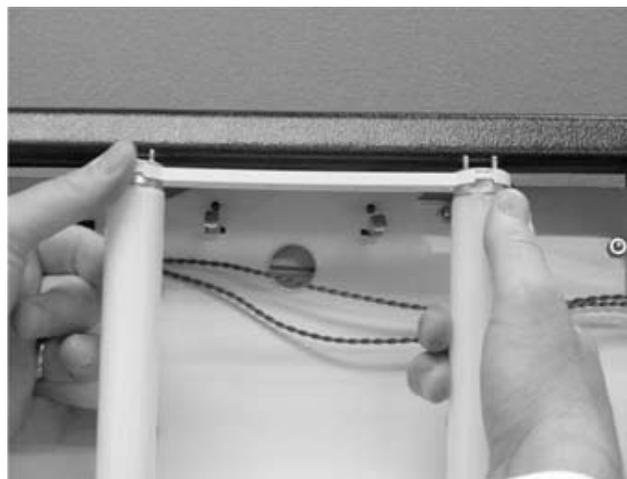


Figure 12.

- D. Remove 2 pieces of strapping tape from bulb sides, if present, see Figure 13 and Figure 14.



Figure 13.



Figure 14.

- E. Pull lamp up out merchandiser and discard the lamp. Repeat for the second lamp.
F. Once lamps have been removed, locate foam blocks (2 each) inside the merchandiser on bottom, see Figure 15.



Figure 15.

- G. Grip sides of foam block with fingers and pull up disengaging the glue section underneath, see Figure 16 and Figure 17.



Figure 16.



Figure 17.

3. Remove and discard ballast, see Figure 18.

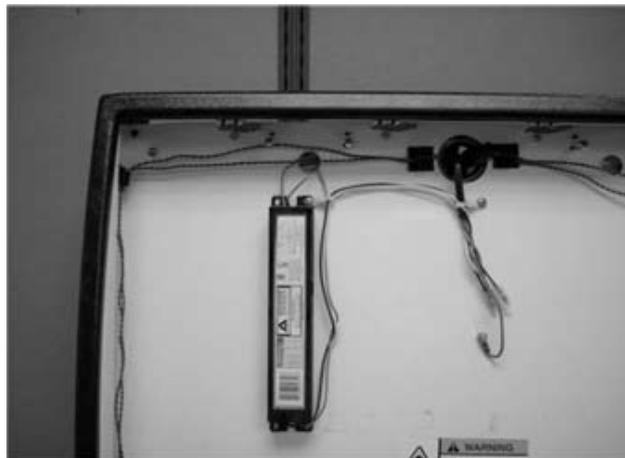


Figure 18.

- A. Cut the wires shown in the following locations:
- Cut brown/white connector, see Figure 19.

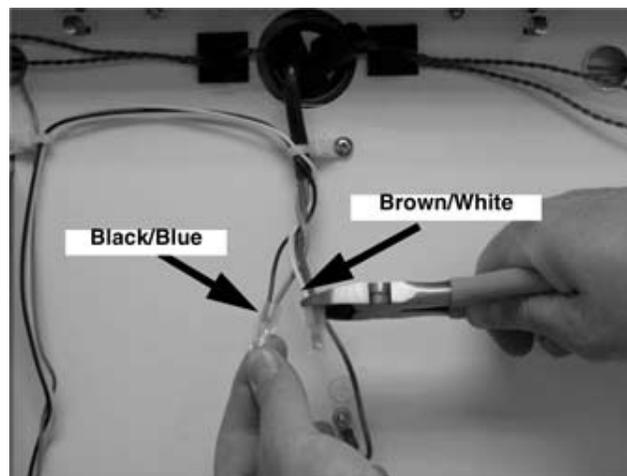


Figure 19.

- Cut black/blue connector see Figure 20.

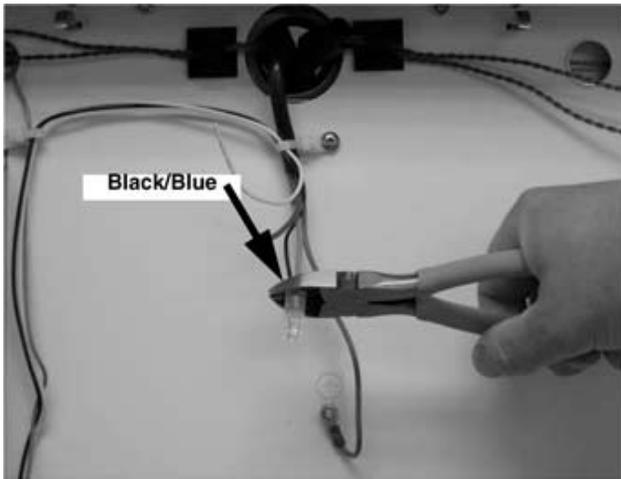


Figure 20.

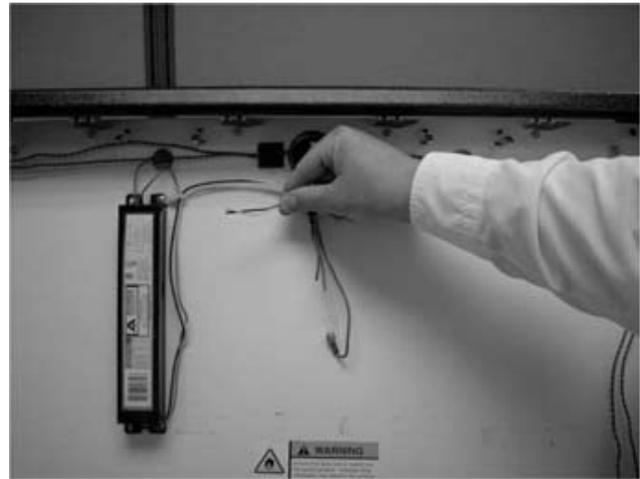


Figure 21.

- Cut ballast red wire, see Figure 22.

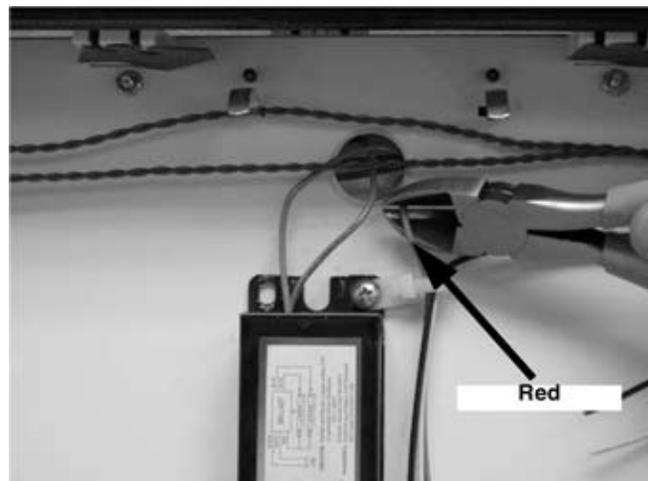


Figure 22.

- Cut ballast blue wires, see Figure 23 .

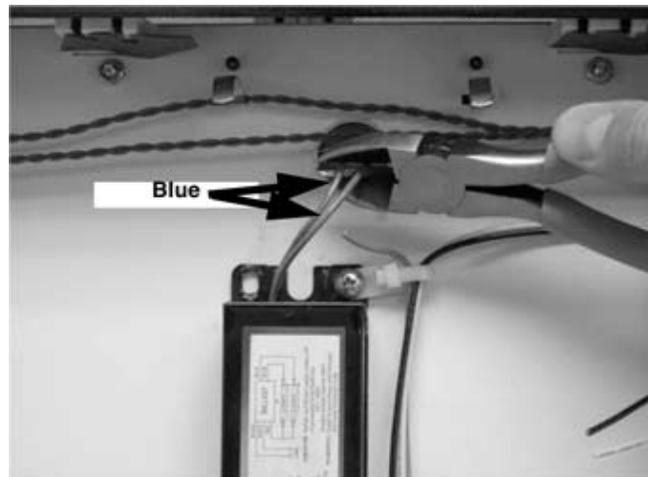


Figure 23.

- B. Remove the 2 screws and nuts holding the ballast to the back of the merchandiser, see Figure 24 and Figure 25 (top and bottom screws).
- C. Throw out this ballast, **Do Not** re-use.

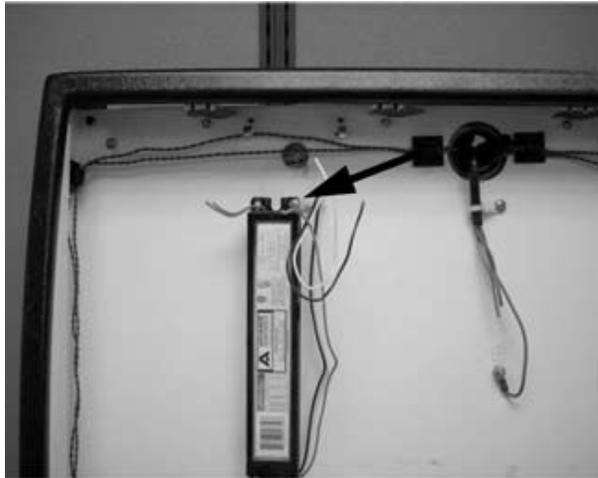


Figure 24.

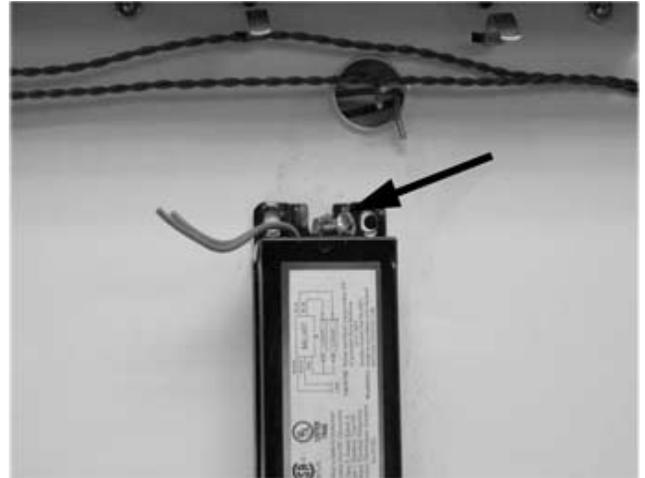


Figure 25.

- 4. Remove and discard sockets and related wiring.
 - A. Remove 2 screws on each side of the wiring chase (metal panel behind sockets), see Figure 26 and Figure 27.

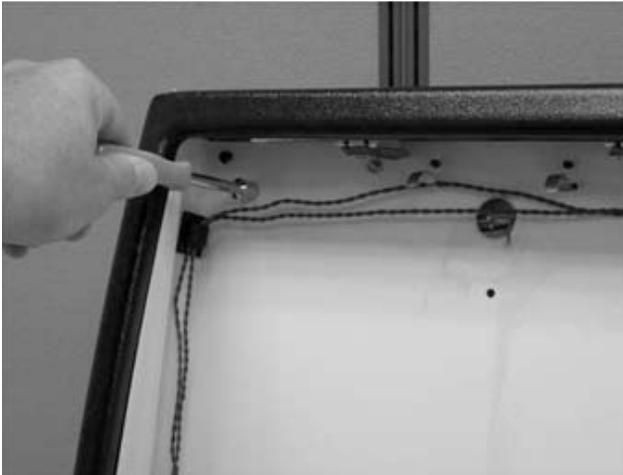


Figure 26.



Figure 27.

NOTE: In Subtype I-only, the rivet heads will need to be drilled off with cordless drill and 3/16" bit, see Figure 1 and Figure 2 for the location to drill. Use two screws and nuts, included in the plastic bag, to replace the rivets in Step 7, A and B (Figure 67 - 71).

- A. Save the screws and nuts, shown in Figure 28.



Figure 28.

- B. Remove 4 screws holding sockets, as shown in Figure 29 (FRONT) and Figure 30(BACK).

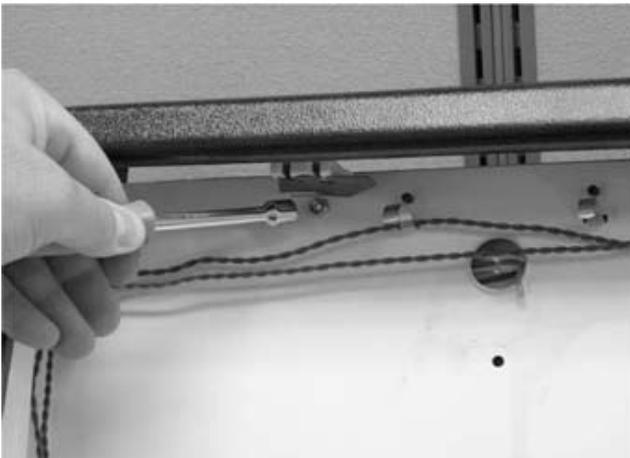


Figure 29.

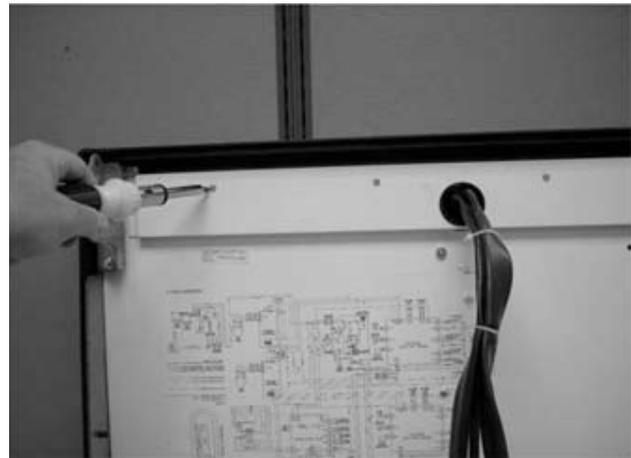


Figure 30. Back of Merchandiser

- C. Remove sockets and wiring attached to them (See Figure 31 through 34).
- D. Leave chase loose to be re-installed in Step 7B with the screws and nuts recovered from step 4A.

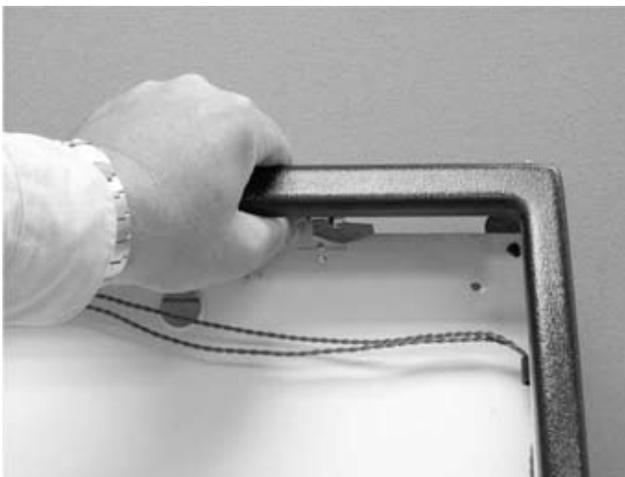


Figure 31.

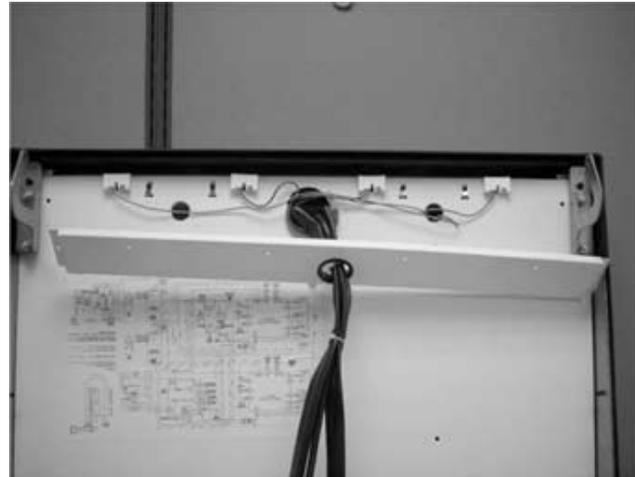


Figure 32.

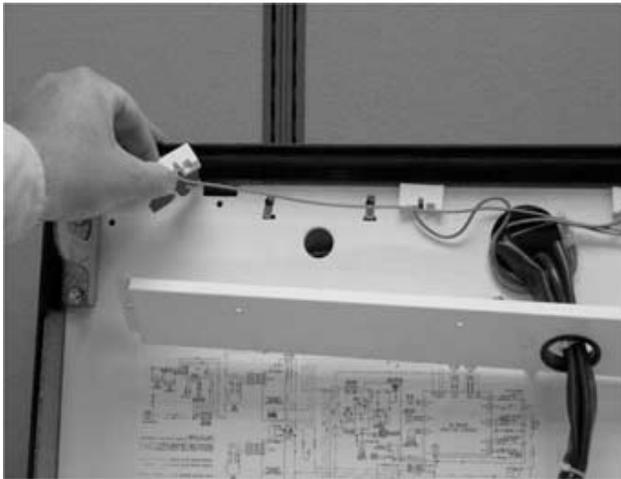


Figure 33.

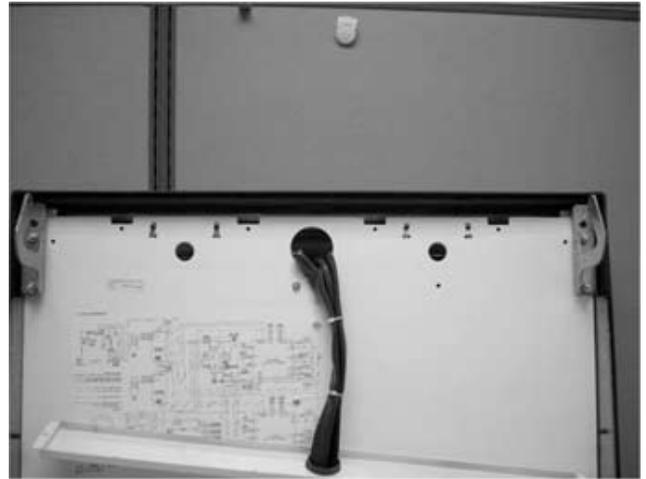


Figure 34.

5. Install new sheet metal brackets from kit 629094255.
 - A. Remove 2 separate brackets from shipping carton.
 - B. Remove bulbs from both brackets by thumbs on sockets, pushing both black buttons to the left and pulling up on the bulb. Save bulbs for later installation in Step 10.
 - C. Locate wire pair and clip on left side-center of merchandiser. Remove pair from clip, see Figure 35 and remove both clips, see Figure 36 and Figure 37.



Figure 35.

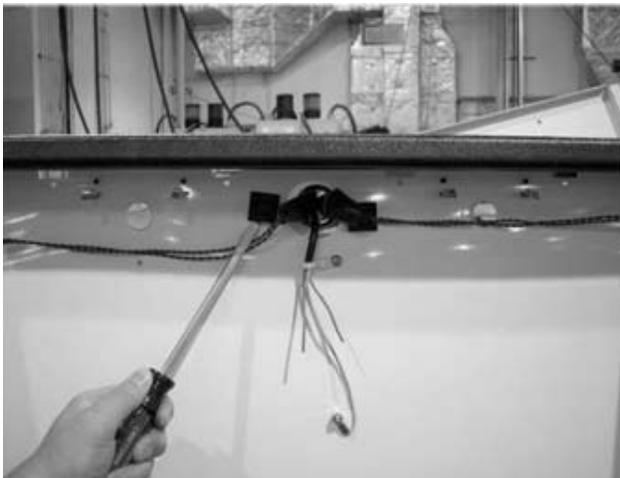


Figure 36.

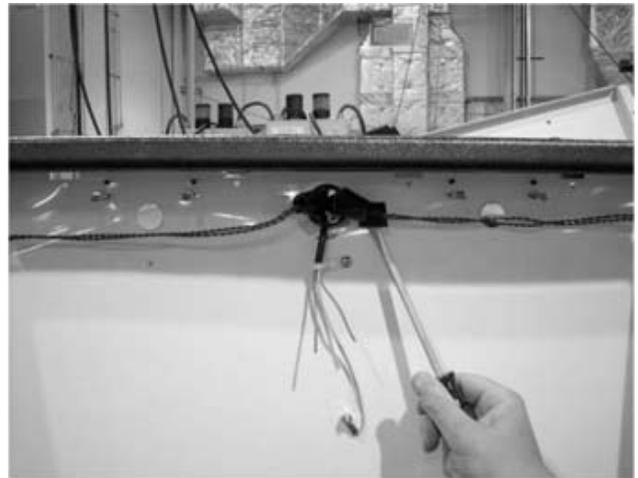


Figure 37.

- D. Locate wire pair and clip on left side-corner of merchandiser, see Figure 38 Remove pair from clip, see Figure 39.

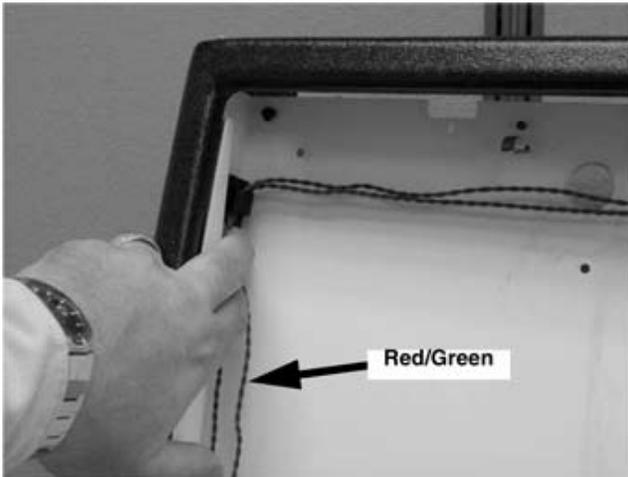


Figure 38.

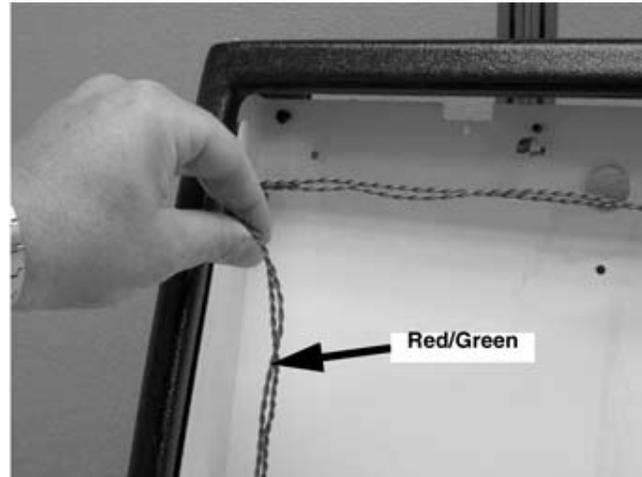


Figure 39.

- E. Locate the bracket with the ballast attached, see Figure 40.

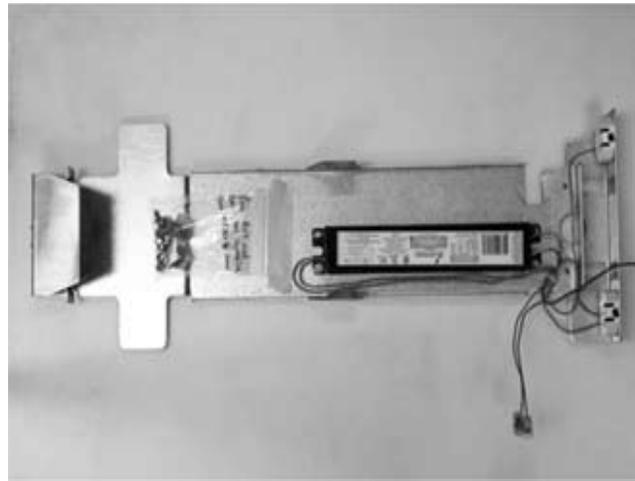


Figure 40.

- F. Place ballast by left hand side of merchandiser, see Figure 41.

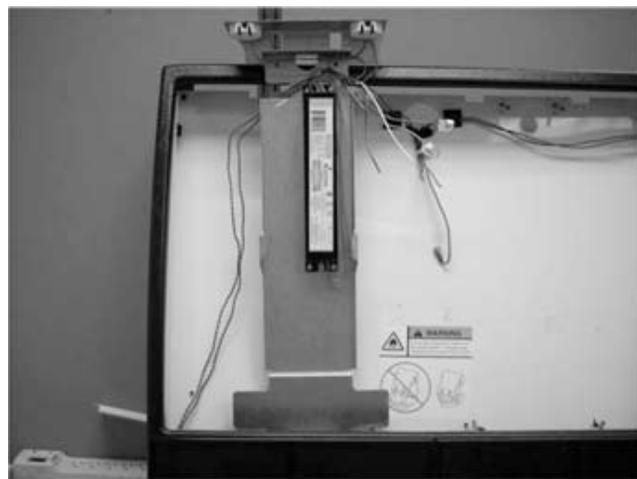


Figure 41.

- G. Place bottom of bracket into bottom of merchandiser making sure the red/green wire pair is in front of bracket, see Figure 42.

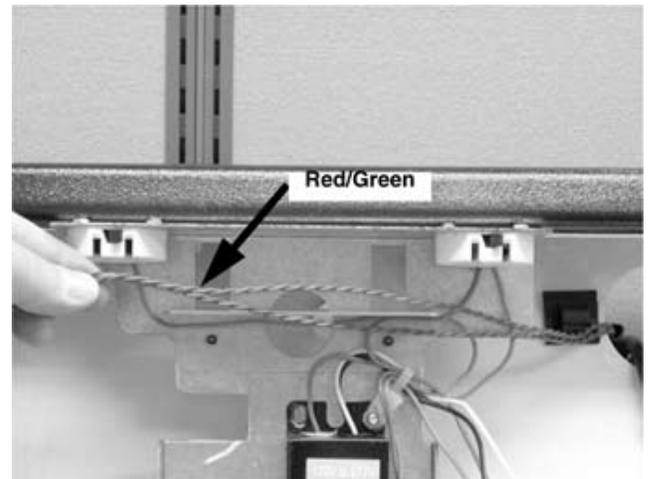


Figure 42.

- H. Place screwdriver between top of bracket and merchandiser, as shown in Figure 43.

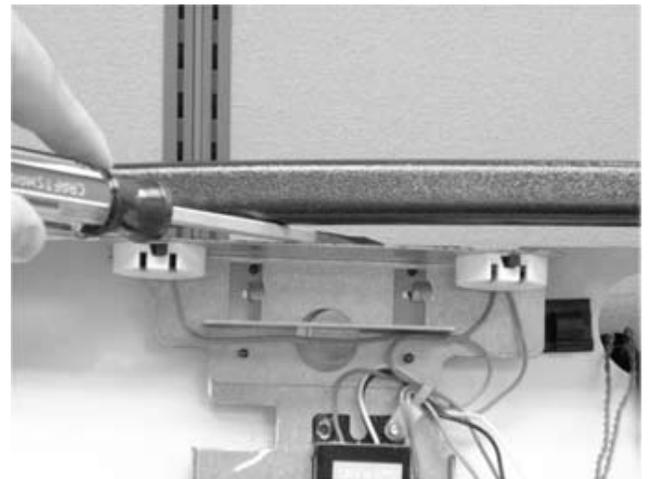


Figure 43.

- I. Press top of bracket back into place, as shown in Figure 44.

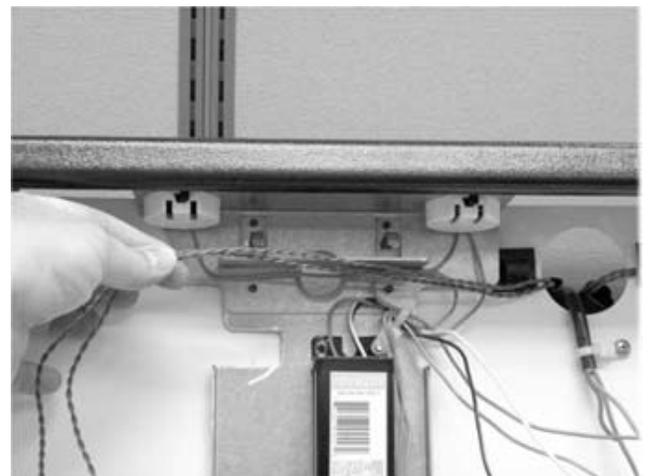


Figure 44.

Make sure:

- Both tabs fit into slots provide, see Figure 44.
- Both studs located on the back of the bracket fit into the holes left by removing previous light sockets, see Figure 45.

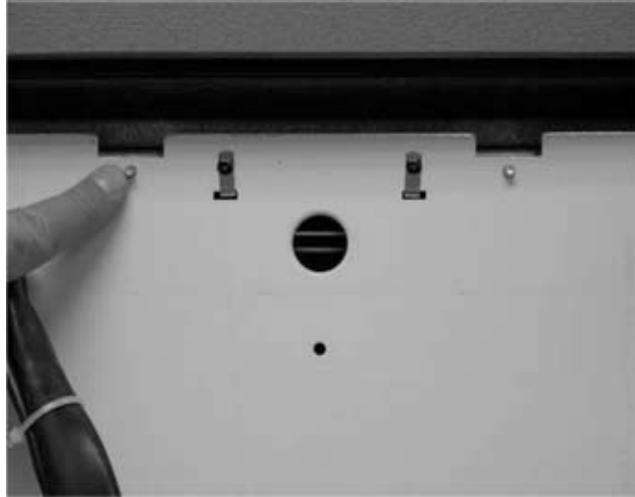


Figure 45.

J. Attach nuts to both studs on back of merchandiser and tighten with tool, see Figure 46 and Figure 47.

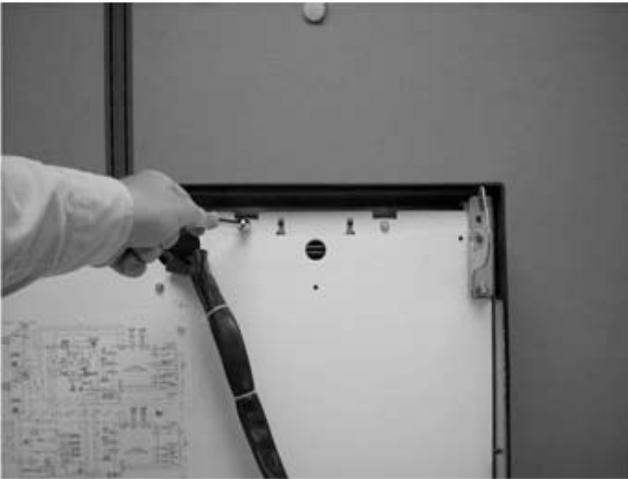


Figure 46. Back of Merchandiser

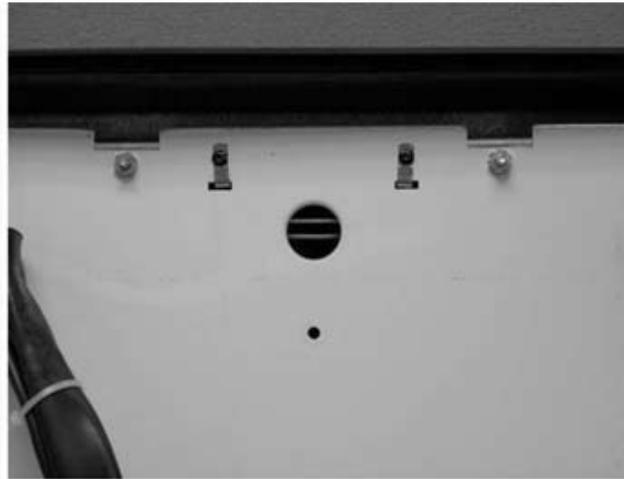


Figure 47. Back of Merchandiser

K. Locate red/green twisted pair wire in clip at bottom of reflector panel on both sides of merchandiser see Figure 48 and Figure 49.



Figure 48.



Figure 49.

- L. Remove both twists from clip, as shown in Figure 50. This removal needs to be performed the same on both sides of the merchandiser.

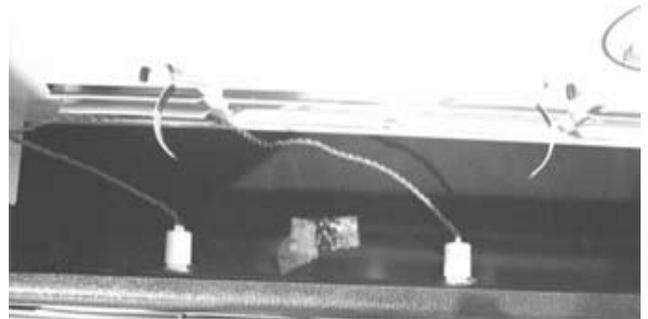


Figure 50.

- M. Re-attach wire pairs to their clips in the left side corner, see Figure 51.

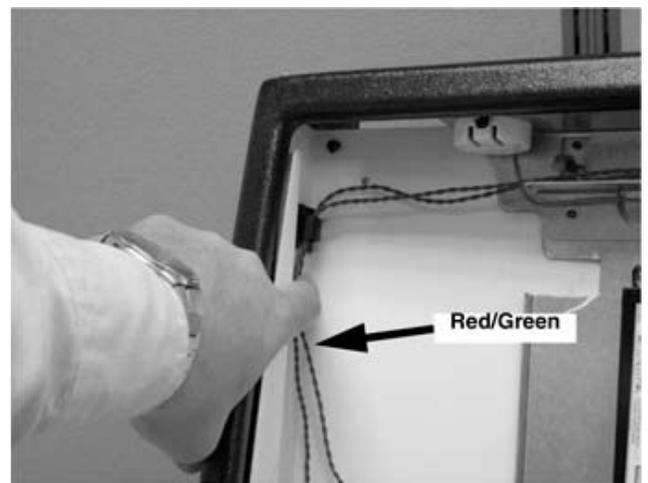


Figure 51.

- N. Attach screws and nuts through holes on top and bottom of ballast, see Figure 52, Figure 53 and Figure 54.

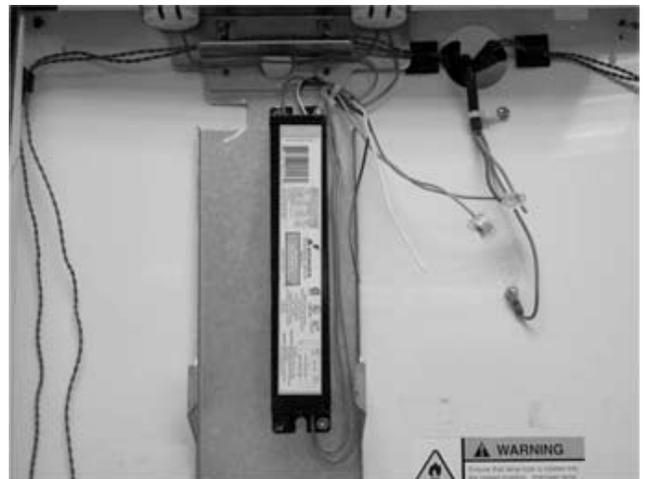


Figure 52.

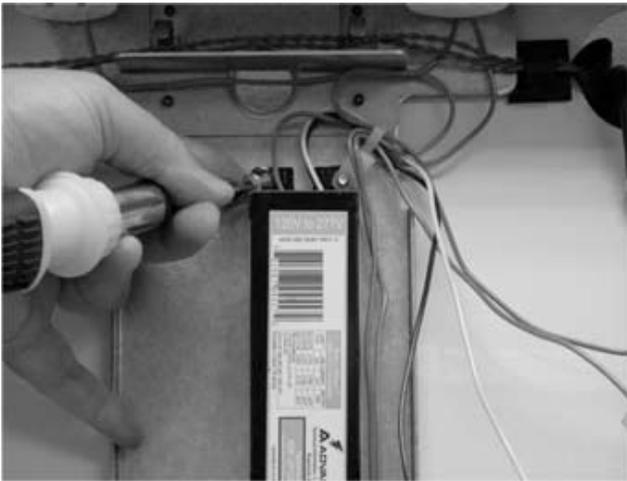


Figure 53.

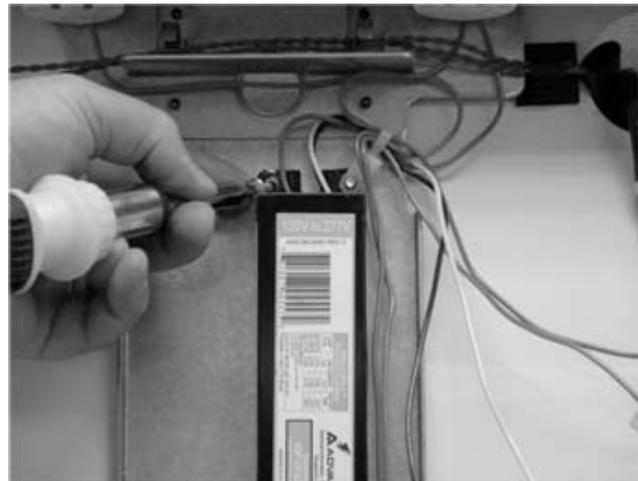


Figure 54.

- O. Tighten nuts on the back of merchandiser from step 6.I with tool (see Figure 55, Figure 56, and Figure 57).



Figure 55.



Figure 56.



Figure 57.

- P. Now locate the bracket without the ballast attached, Figure 58.

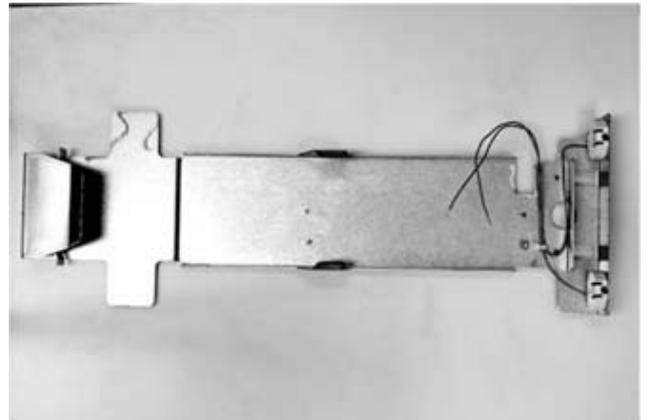


Figure 58.

- Q. Locate wire pair and clip on right side-corner of merchandiser, see Figure 59. Remove pair from clip, see Figure 60.



Figure 59.



Figure 60.

- R. Place bottom of bracket into bottom of merchandiser, as shown in Figure 61.

NOTE: Make sure the red/green wire pair is in front of bracket.

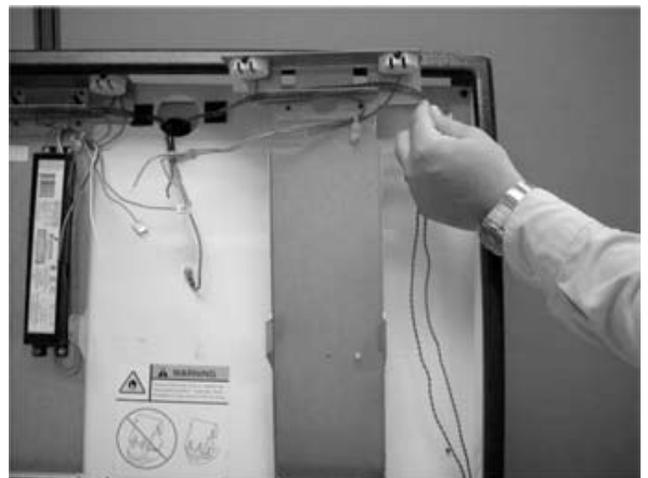


Figure 61.

- S. Place screwdriver between top of bracket and merchandiser, as shown in Figure 62. Press top of bracket back into place.



Figure 62.

Make Sure:

- Both tabs fit into slots provided.
- Both studs located on the back of the bracket fit into the holes left by removing previous light sockets.

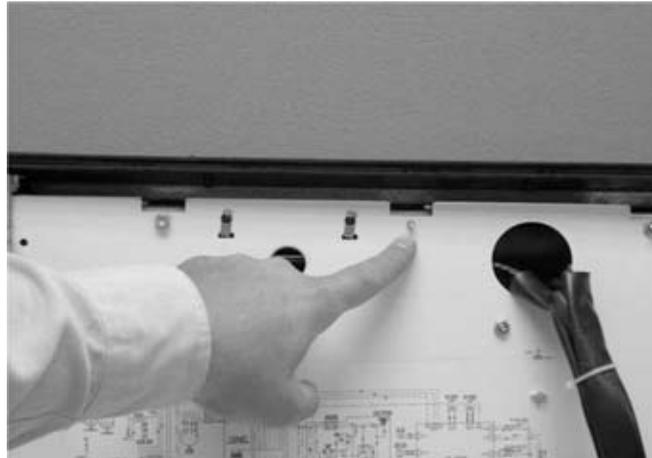


Figure 63.

- T. Attach nuts to both studs on back of merchandiser and tighten with tool, see Figure 63 and Figure 64.

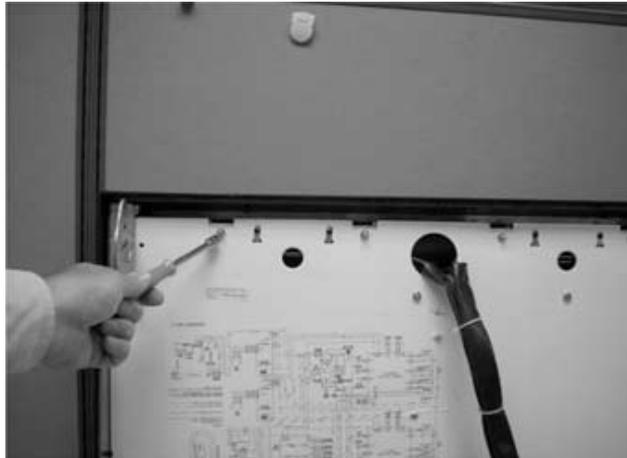


Figure 64.

- U. Route wires in front of and below the bracket, this needs to be routed the same way on both brackets.

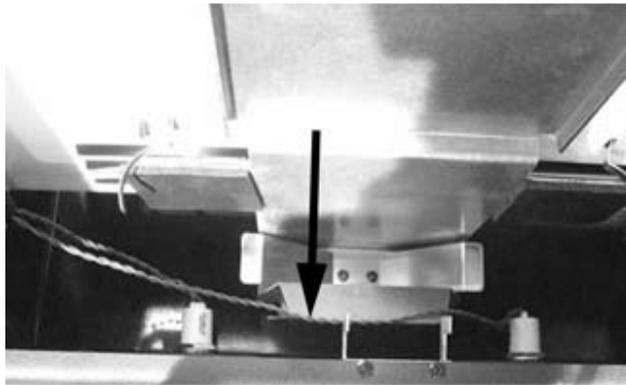


Figure 65.

- V. Re-attach wire pairs to their clips in right side-corner (Figure 66) and the right side-center of merchandiser.

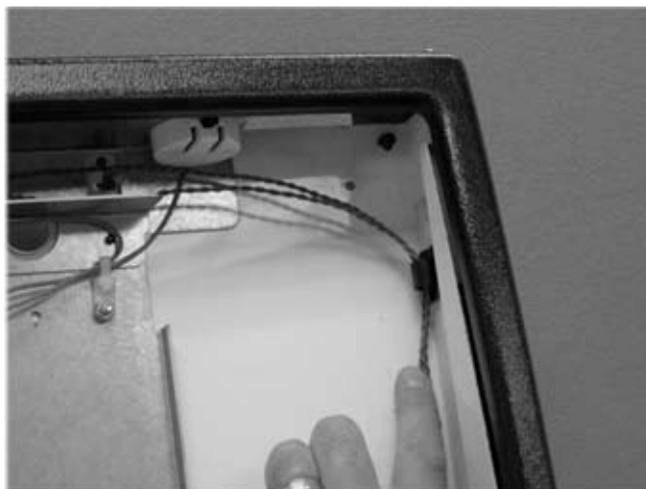


Figure 66.

6. Re-install to back of merchandiser.

- A. Place chase onto the back of the merchandiser (see Figure 67) aligning with holes shown.



Figure 67.

- B. Push screw saved from step 4A through the hole and attach nut, as shown in Figure 68.

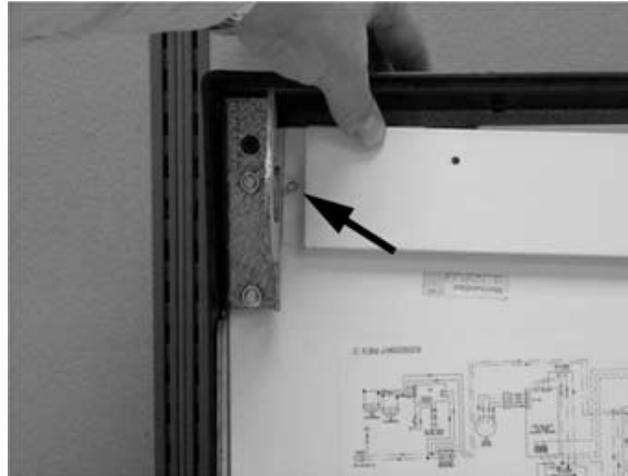


Figure 68.

- C. Tighten screw and nut, see Figure 69 and Figure 70.



Figure 69. Back of Merchandiser



Figure 70.

D. Repeat on opposite side on chase, Figure 71.

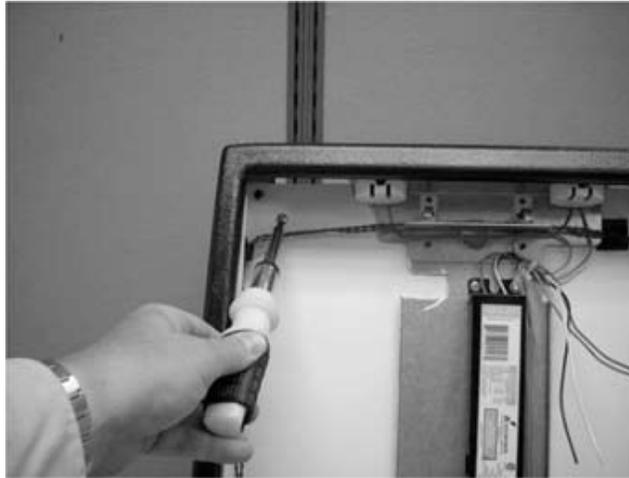


Figure 71.

7. Add screws to fasten right side bracket.

A. Obtain 3/16" drill bit as shown, in Figure 72.



Figure 72.

- B. Chuck bit into drill and drill two holes through the white reflector panel in the two pilot-hole locations indicated, see Figure 73 and Figure 74.

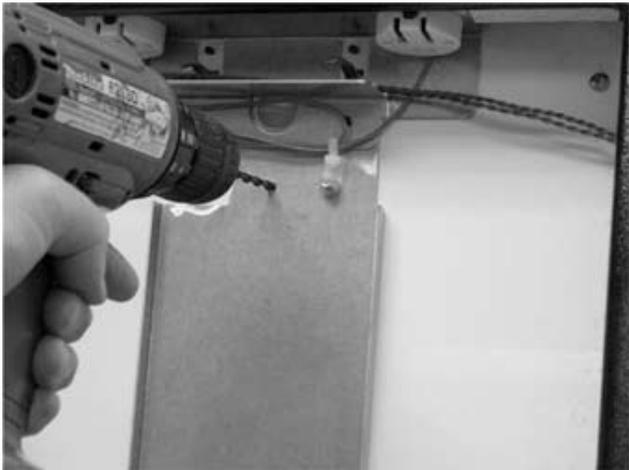


Figure 73.



Figure 74.

- C. Attach 2 screws and nuts, as shown in Figure 75.

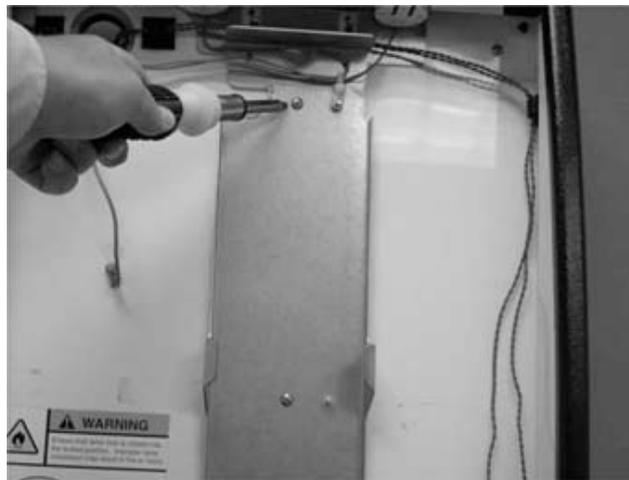


Figure 75.

- D. Tighten screws on the back of the panel with a nut driver, as shown in Figure 76.

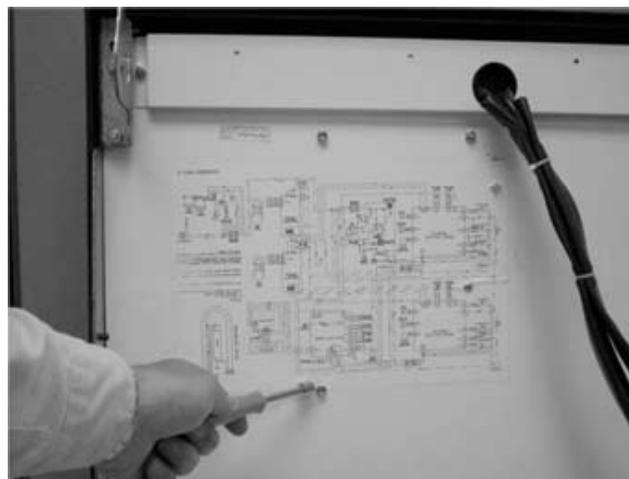


Figure 76.

- 8. Connect wire harness to ballast.
 - A. Locate wires, as shown in Figure 77.

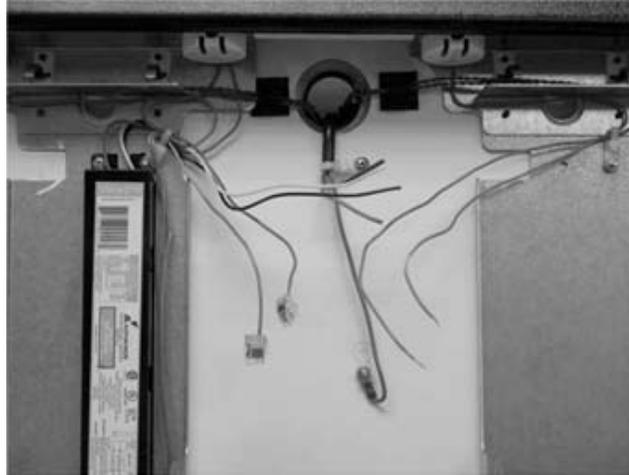


Figure 77.

- B. Press the socket-blue wire into the connector, as shown Figure 78 .

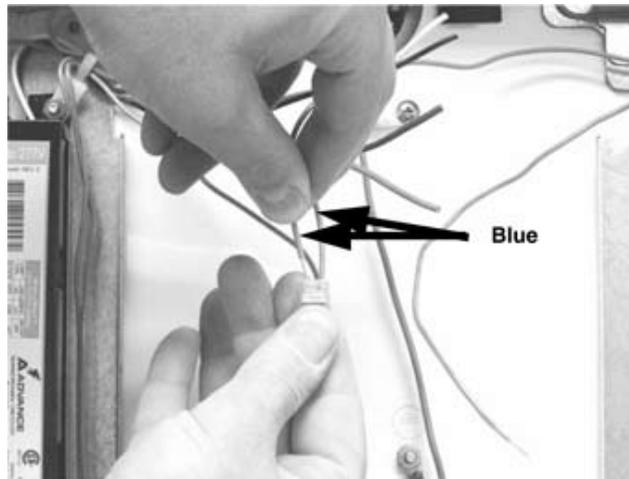


Figure 78.

- C. Press the socket-red wire into the connector, as shown Figure 79 .

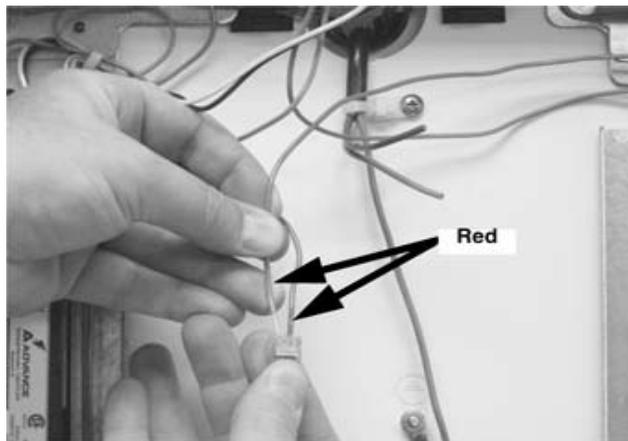


Figure 79.

- D. Pull out the scotchlok blue connector. Press the white-wire and the harness-blue wire into the connector (see Figure 80) Crimp with pliers, as shown in Figure 81.



Figure 80.

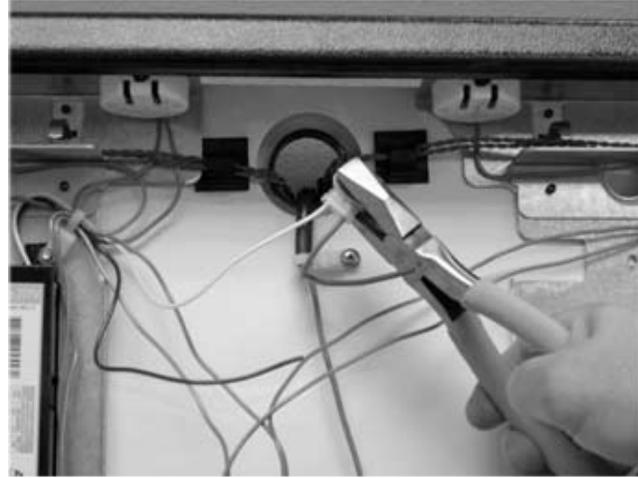


Figure 81.

- E. Pull out another Scotchlok blue connector. Press the black-wire and the harness-brown wire into the connector (see Figure 82) Crimp with pliers as shown Figure 83.

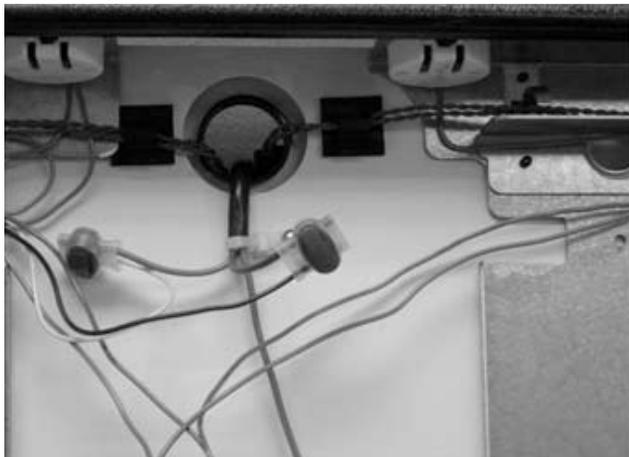


Figure 82.

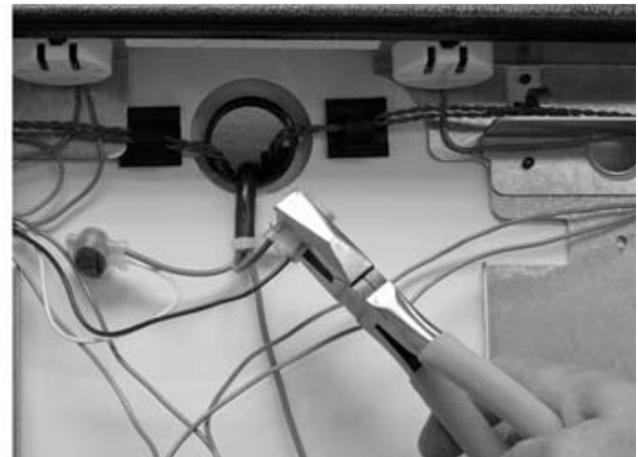


Figure 83.

- F. Wiring is now completed, see Figure 84.

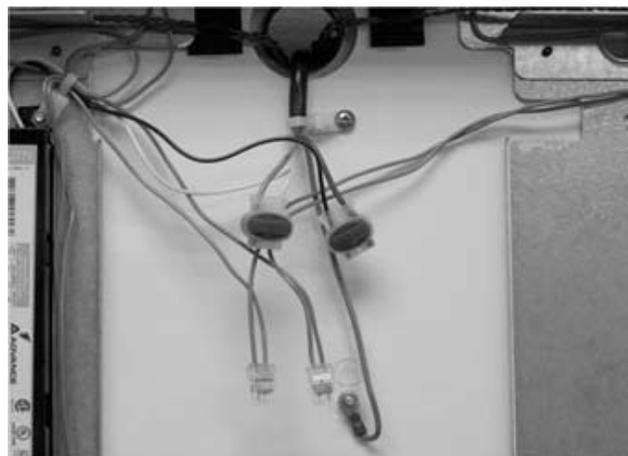


Figure 84.

9. Install bulb.

A. Before installing the bulb you must:

- Crimp both tabs with pliers, as shown in Figure 85, Figure 86, Figure 87 and Figure 88. This is necessary to allow the bulb to fit properly.

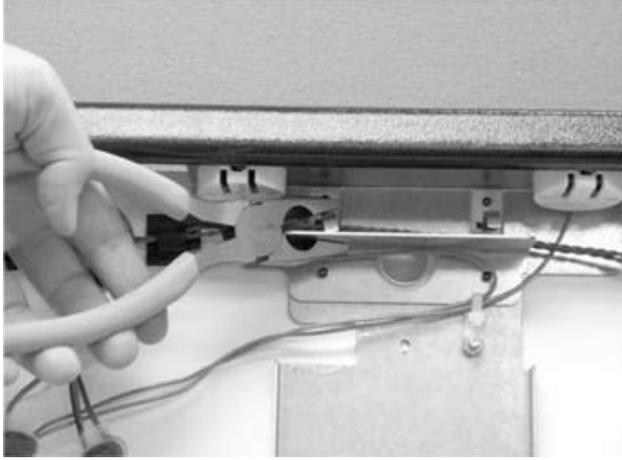


Figure 85.

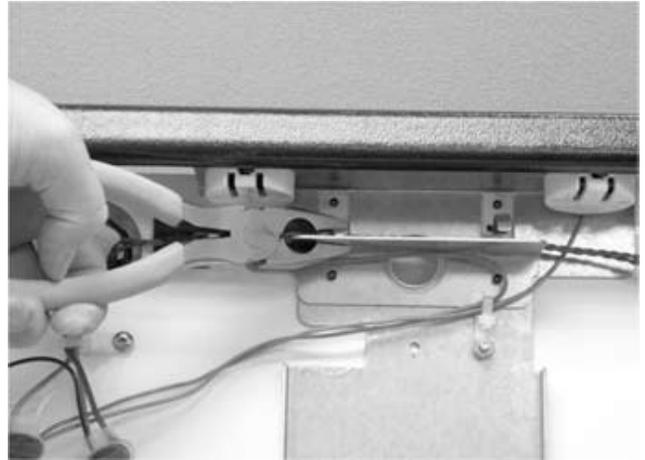


Figure 86.

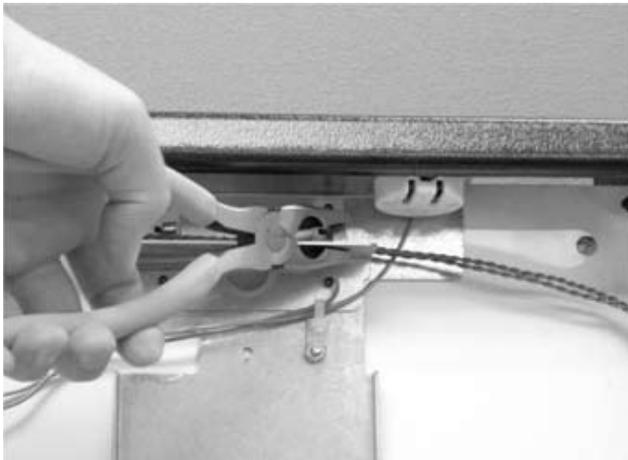


Figure 87.

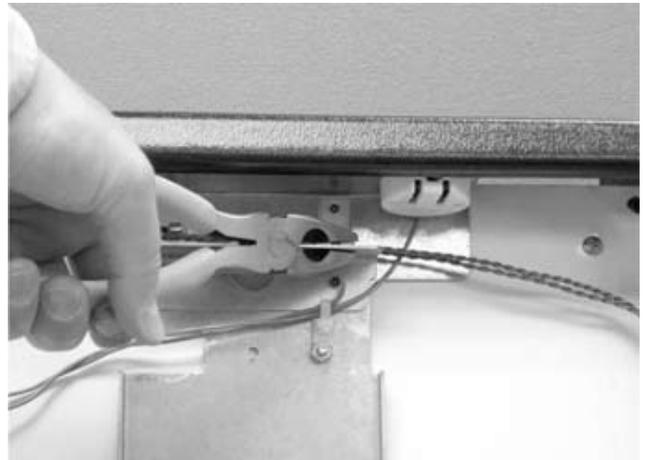


Figure 88.

- Push both tabs at bottom of bracket, as shown in Figure 89, Figure 90, Figure 91 and Figure 92. This is necessary to allow the bulb to fit properly.

NOTE: Tabs may break while being bent, be careful.



Figure 89.



Figure 90.



Figure 91.



Figure 92.

- B. Insert bulb in the bottom of the bracket, see Figure 93.

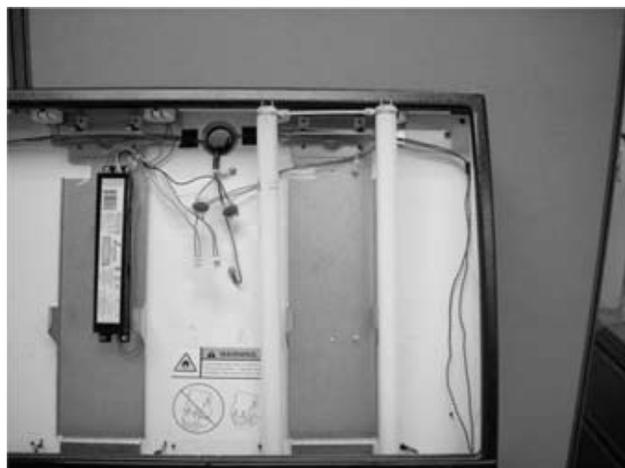


Figure 93.

- C. Push bulb down until top of the bulb terminals are below socket slots then press bulb forward into sockets (as shown in Figure 94 and Figure 95) until both sides “click” into place.



Figure 94.



Figure 95.

- D. Repeat for second lamp, see Figure 96.



Figure 96.

10. Re-install graphics and plastic cover, see Figure 97 and Figure 98.



Figure 97.



Figure 98.

11. Restore power and check that the lamps are powering up.
12. The procedure is complete.

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