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# **INSTALLATION INSTRUCTIONS**

## **Pinnacle Merchandiser Upgrade Kit (P/N 629094154)**

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**Revision Date: March 24, 2014**

**Revision: C**

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The products, technical information, and instructions contained in this manual are subject to change without notice.

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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### **Contact Information:**

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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

**NOTE:** Applicationable for Pinnacle 2 Barrel Units built with SN's beginning with 62xxxxx.

## MERCHANDISER SUBTYPES:

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

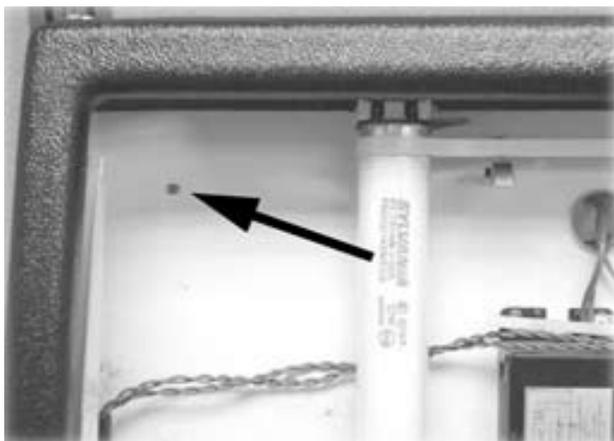


Figure 1. Front View

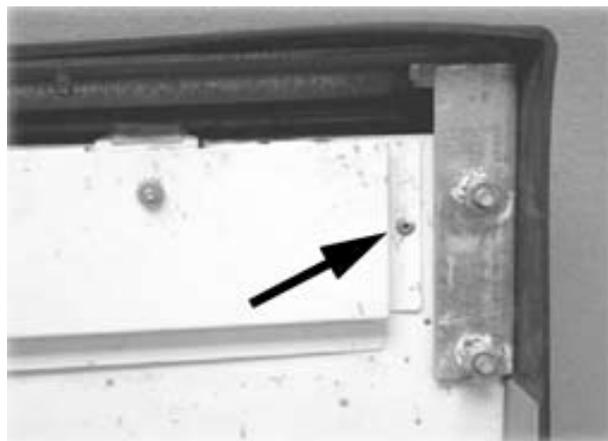


Figure 2. Back View

2. Type II: Pinnacle 4BRL with covered light sockets and wire chase attached with nuts and bolts.



Figure 3. Front View

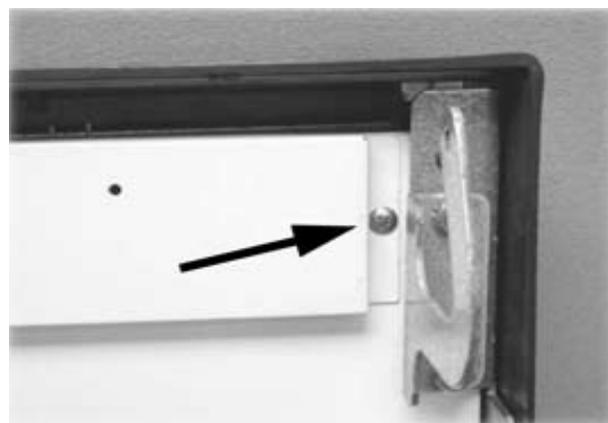


Figure 4. Back View

3. Type III: This is the same as Type II with the exception it has a rocker switch mounted on back of the merchandiser.

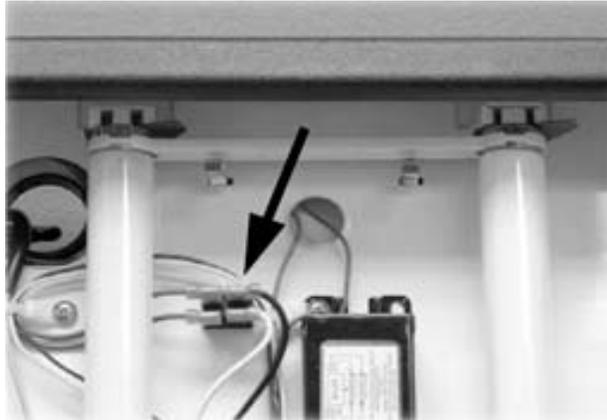


Figure 5. Front View

## Parts List

1. 1 Bracket (containing 1 ballast and 1 lamp)
2. 2 Blue wire connectors (in plastic bag)
3. 6 Nuts (in plastic bag)
4. 4 Screws (in plastic bag)



Figure 6.

## 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 (Regular or Lineman's)
7. Cordless Drill with 3/16" Bit



Figure 7.

## GENERAL STEPS FOR KIT INSTALLATION

**NOTE:** These instructions cover the three subtypes of the Pinnacle 2 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].

**NOTE:** It is the intent of these instructions that the procedure for installing this kit can be done with the merchandiser attached to the unit and raised to its top hinge position. The photos included in these instructions show the installation done with the merchandiser removed.

1. Remove power from unit [All subtypes].

**IMPORTANT:** Wait 3 minutes for the inverter capacitors to discharge before continuing.

2. Remove graphics and plastic cover from the front of the Merchandiser.
  - A. See standard merchandiser in Figure 8. [All subtypes].



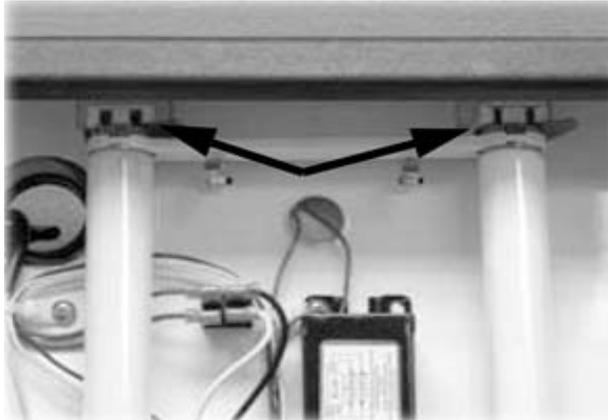
Figure 8.

- B. Slide the graphics up and set aside, see Figure 9.



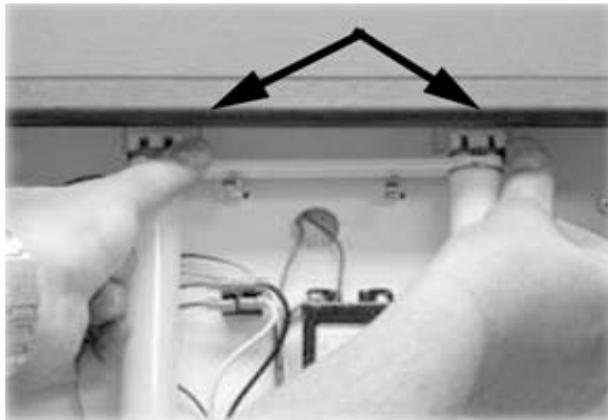
Figure 9.

3. Remove and discard the lamp and foam block [All subtypes].
  - A. Locate the lamp sockets at the top of the U-tube lamp, see Figure 10.



**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 the lamp out, see Figure 12.

**NOTE: Pull lamp just enough to be out from the inside of the merchandiser, as shown.**



**Figure 12.**

D. Remove 2 pieces of strapping tape from bulb sides, as shown in Figure 13. and Figure 14. if present.



Figure 13.



Figure 14.

E. Pull lamp up and out of merchandiser and discard the lamp.

F. Once the lamp has been removed, locate the foam block at bottom inside center of merchandiser, as shown in Figure 15. .



Figure 15.

G. Grip sides of foam block with fingers and pull up to disengage the glue section under the block, see Figure 16. Discard the foam block, see Figure 17.



Figure 16.



Figure 17.

4. Remove and discard the ballast.
  - A. Cut the wires in the 4 locations shown in Figure 18.

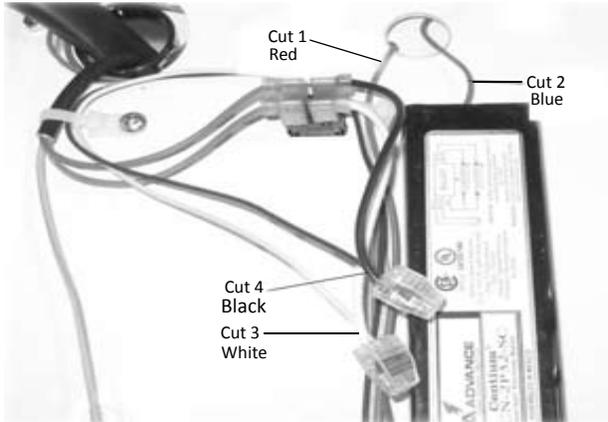


Figure 18.

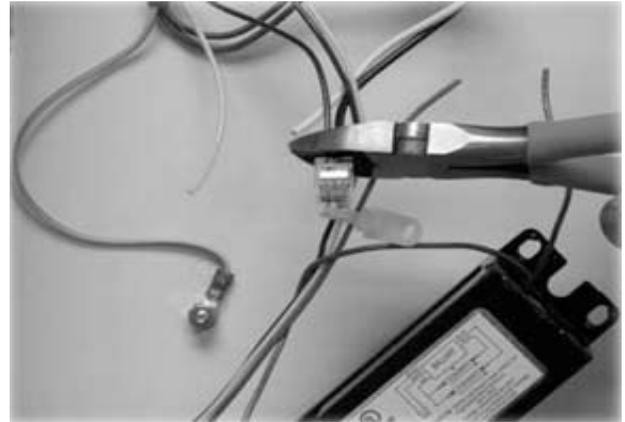


Figure 19.

- B. Remove the 2 screws and nuts holding the ballast to the back of the merchandiser, see Figure 20. [All subtypes].



Figure 20.

- C. Discard the ballast, see Figure 21. [All subtypes].

**NOTE: DO NOT re-use the ballast.**



Figure 21.

5. Remove and discard sockets and the attached wiring.

**NOTE: In Subtype 1-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 6, H (Figure 36.)**

- A. Remove 2 screws on each side of the wiring chase, see Figure 22. (metal panel behind sockets). Save the screws and nuts. Leave chase loose to be re-installed in Step 6, H.

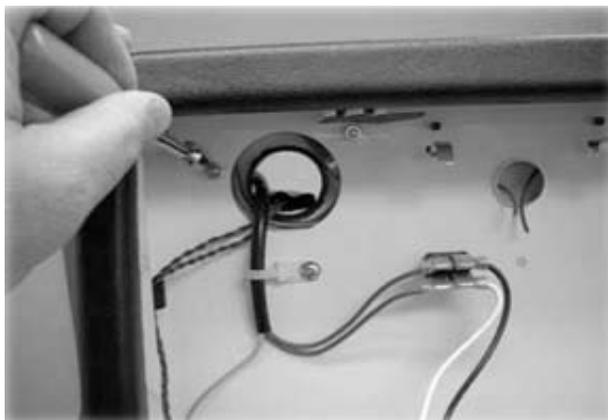


Figure 22.

- B. Remove 2 screws holding sockets, see Figure 23. and Figure 24.



Figure 23.

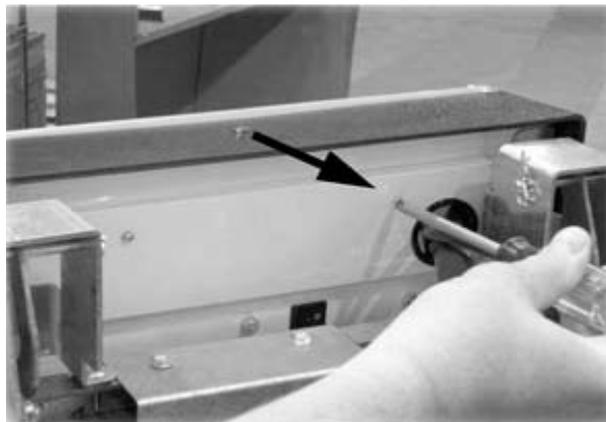
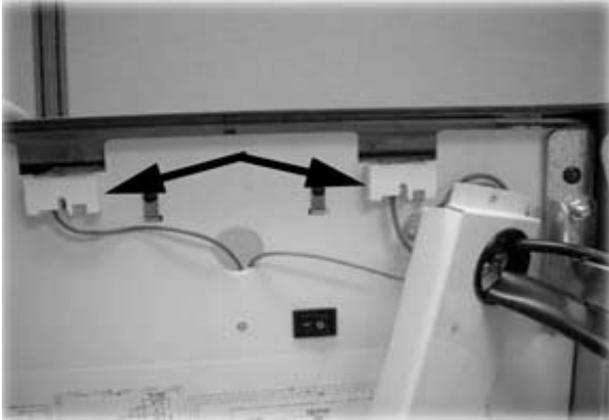


Figure 24. Back of Merchandiser

- C. Remove sockets and the wiring attached to them, see Figure 25. and Figure 26.



**Figure 25. Back of Merchandiser**



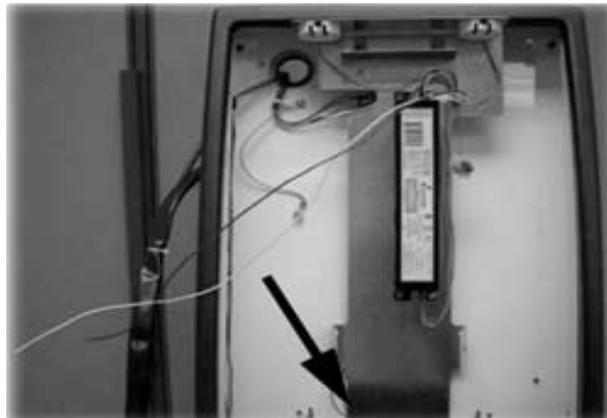
**Figure 26. Back of Merchandiser**

6. Install new sheet metal bracket from kit 629094154.
- A. Remove the bracket from the shipping carton.
  - B. Remove bulb from bracket by placing thumbs on sockets, pushing both black socket buttons to the left and pulling up on the bulb. Save bulb for installation later in Step 8, B.
  - C. Place bracket by merchandiser, see Figure 27.



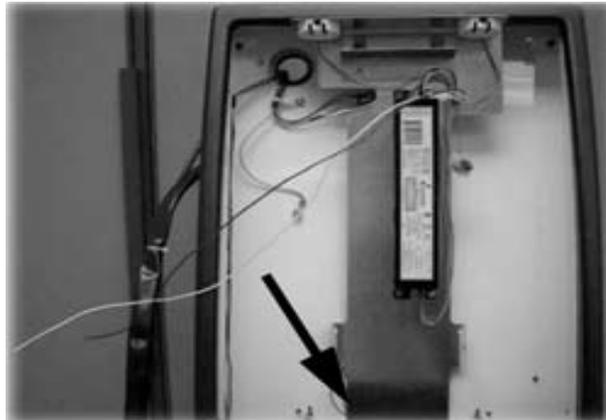
**Figure 27.**

- D. Place bottom of bracket into bottom of merchandiser, see Figure 28.



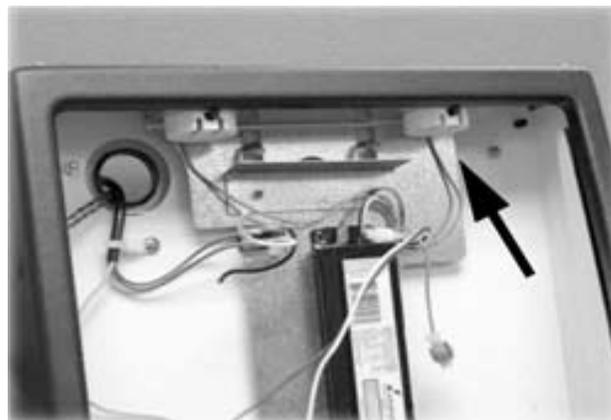
**Figure 28.**

E. Place screwdriver between top of bracket and merchandiser, as shown in Figure 29.



**Figure 29.**

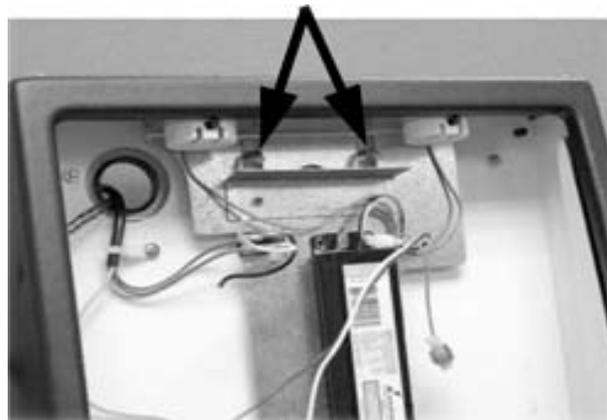
F. Press top of bracket back into place, as shown in Figure 30.



**Figure 30.**

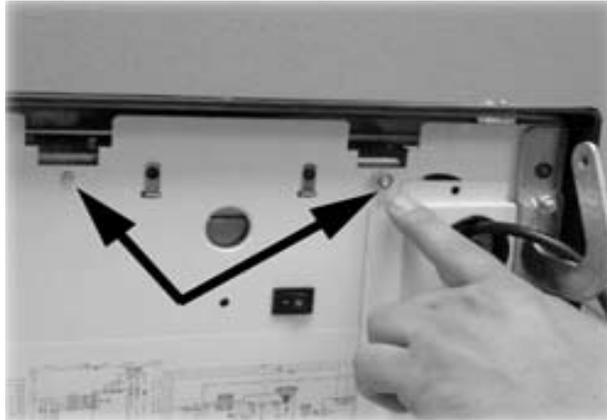
**NOTE: Make certain that:**

- Both tabs between sockets fit into slots provided, see Figure 31.



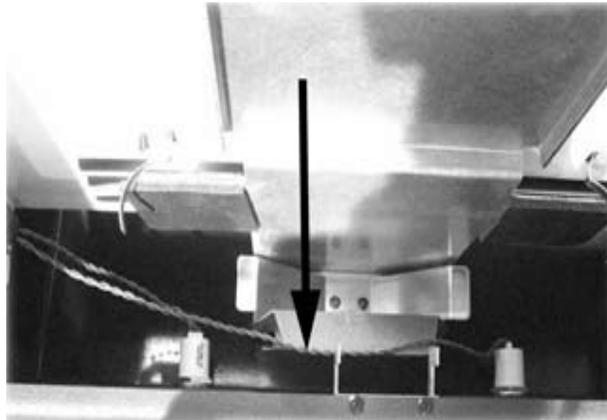
**Figure 31.**

- Both studs located on back of bracket fit into holes left by removing previous light sockets, see Figure 32.



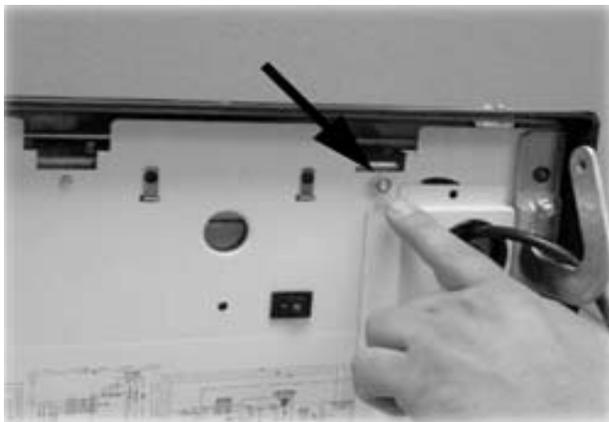
**Figure 32. Back of Merchandiser**

- Pull red/green twisted pair wire from clip at bottom of reflector panel. Route wires in front of and below the bracket.

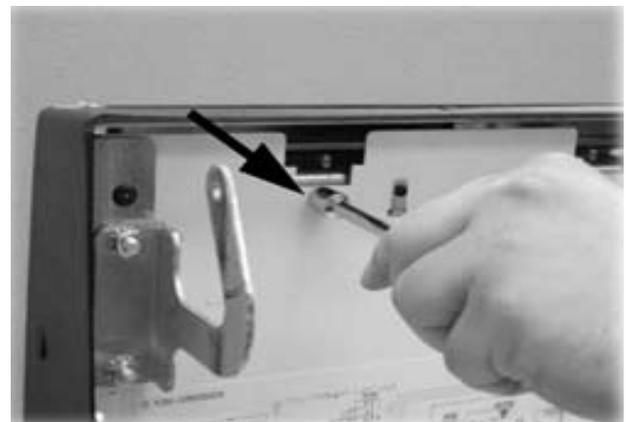


**Figure 33.**

- G. Attach nuts to both studs on back of the merchandiser, as shown in Figure 34. and Figure 35. and tighten with tool.



**Figure 34. Back of Merchandiser**



**Figure 35. Back of Merchandiser**

- H. Re-install chase to the back of the reflector panels with the screws saved from Step 5, A .See Figure 36.

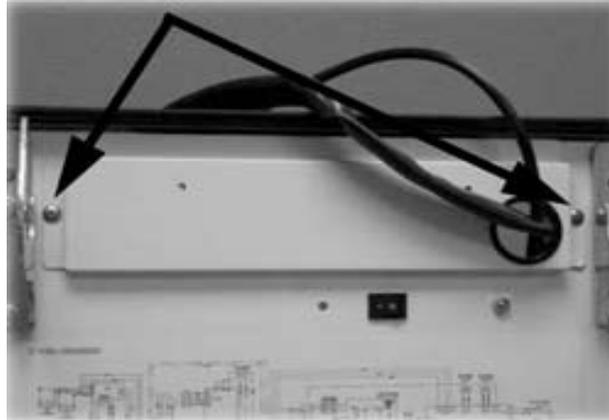


Figure 36. Back of Merchandiser

- I. Attach screws and nuts through holes on top and bottom of the ballast.

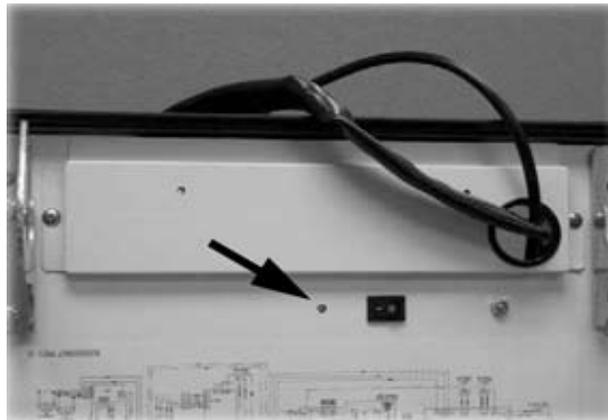


Figure 37.

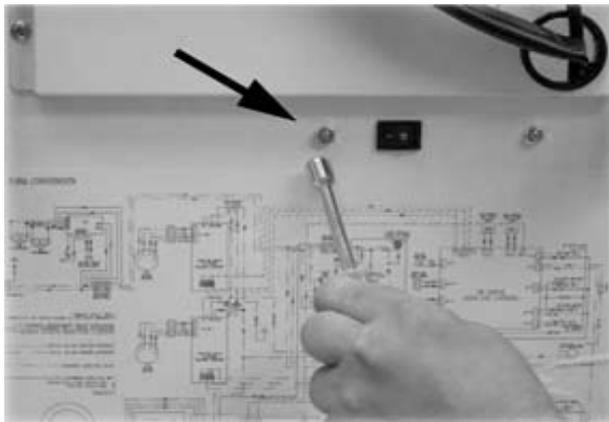


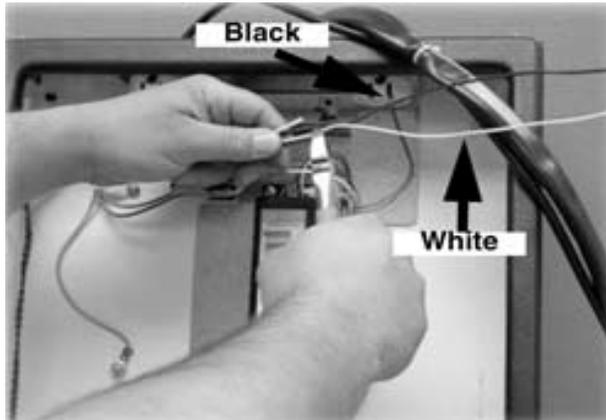
Figure 38.



Figure 39.

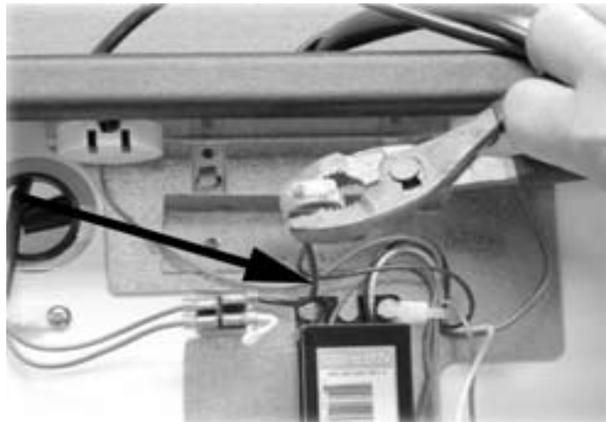
7. Connect wire harness to ballast.

- A. Trim black and white wires from ballast to match wire lengths from switch, as shown in B.



**Figure 40.**

- B. Press both black wires into Scotchlok connector and crimp, as shown in Figure 41.



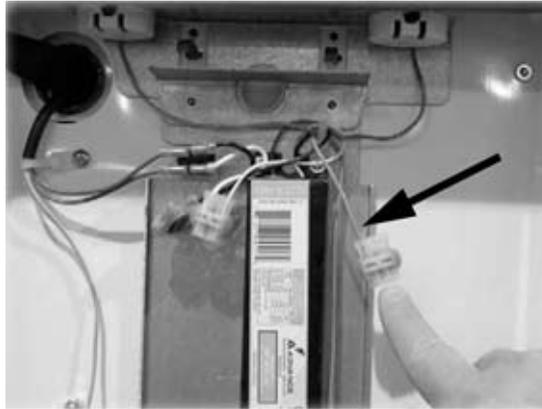
**Figure 41.**

- C. Press both white wires into Scotchlok connector and crimp, as shown in Figure 42.



**Figure 42.**

D. Blue wire is not used.



**Figure 43.**

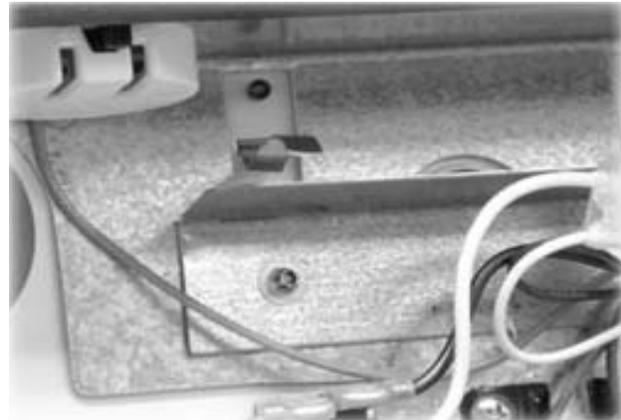
8. Install the bulb.

A. Before installing the bulb you must:

- Crimp both tabs with pliers, as shown in Figure 44. and Figure 45. This is necessary to allow bulb to fit properly.



**Figure 44.**



**Figure 45.**

- Push both tabs at bottom of bracket outward, as shown in Figure 46. This is necessary to allow the bulb to fit properly.



**Figure 46.**

- B. Insert bulb into the bottom of the bracket. Push bulb down until the tops of bulb terminals are below socket slots then press bulb forward into sockets, as shown in Figure 47.



**Figure 47.**

9. Re-install top panel and front graphics, see Figure 48. through Figure 51.



**Figure 48.**



**Figure 49.**



**Figure 50.**



**Figure 51.**

10. Restore power and check that the lamp is powering up.
11. The procedure is complete.



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