



SERVICE BULLETIN 378

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Date: 01 May 2013

Revision: 00

SUBJECT: T12 to Low-power LED Conversion Kit Installation

Number of
People
Required



MODELS: GIII Landscape venders with T12 fluorescent lighting

KIT NUMBER

KIT DESCRIPTION

232900

LED Conversion Kit, Wide Vender, Landscape

284901

LED Conversion Kit, Narrow Vender, Landscape



The following areas of this vender contain voltage which can cause serious injury or even death: the main power cord, supplying 115-230 VAC to the evaporator, EMI filter, refrigeration system, monitor, and computer; the power line from the EMI filter to the ballast and transformer; and the ballast, which can produce upwards of 600 volts. Remove all power from the vender before working in any of these areas.

TOOLS REQUIRED: Screwgun with Phillips (crosshead) bit, drill with 7/64" (3 mm) bit, tape measure

ESTIMATED INSTALLATION TIME: 30 minutes

PURPOSE: This bulletin explains the process for converting old T12 fluorescent lighting to a newer 24-volt LED lighting system in the GIII Landscape venders.

INSTALLATION INSTRUCTIONS:

1. Remove power by unplugging the vender's power cord from the AC voltage source (wall outlet).
2. Remove the fluorescent tubes from the door.
3. Remove all components of the existing lighting system from the door (light sockets, brackets, ballast, wiring, etc.).
4. Install the bottom lamp brackets on the top of the bottom bulkhead, directly in line with the old lamp brackets. (Refer to Figure 1.) Secure the brackets with one #8 self-drilling screw each (from the kit).
5. Measure from the top edge of the bottom bulkhead of the door 46.00" (116.8 cm). Make a mark at this location. (Refer again to Figure 1.)
6. Install the lamp panel at the location that was marked in Step 5. Secure it with four #8 self-drilling screws from the kit.
7. Install the power supply in a suitable location (generally in the same area the ballast was previously installed). Secure it with two #6 screws from the kit. **Note:** The mounting holes for the two screws will need to be drilled into the door using a 7/64" (3 mm) bit.
8. Connect the harnessing from the power supply to both the LED harness and to the main door harness. (See Figure 2 for a wiring diagram.)
9. Install the decal from the kit along the bottom bulkhead of the door near the bottom lamp sockets. (Refer to Figure 3.)
10. Secure all excess wiring with wire ties.
11. Install the LED tubes. **Note:** The tubes are unidirectional. The end of the tube labeled "Input DC 24V" must be installed in the bottom sockets. The tubes will not illuminate if installed incorrectly.
12. Restore power by plugging the vender's power cord into the AC voltage source (wall outlet).

In an effort to provide our customers with the latest information on our equipment, Royal Vendors sends service bulletins to customers using the original ship-to address or e-mail addresses, if supplied by our customers. We also post all service bulletins on our website at www.royalvenders.com. If for any reason a vender is moved to another location or is sold to another customer other than to whom Royal Vendors originally sent the machine, it is the responsibility of the original purchaser of the vender to notify the appropriate personnel of the service bulletin.

**ANY QUESTIONS? CONTACT ROYAL VENDORS' CUSTOMER SERVICE DEPARTMENT
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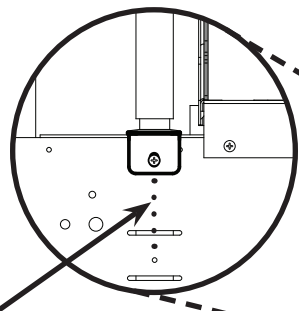
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MODELS: GIII Landscape vendors with T12 fluorescent lighting

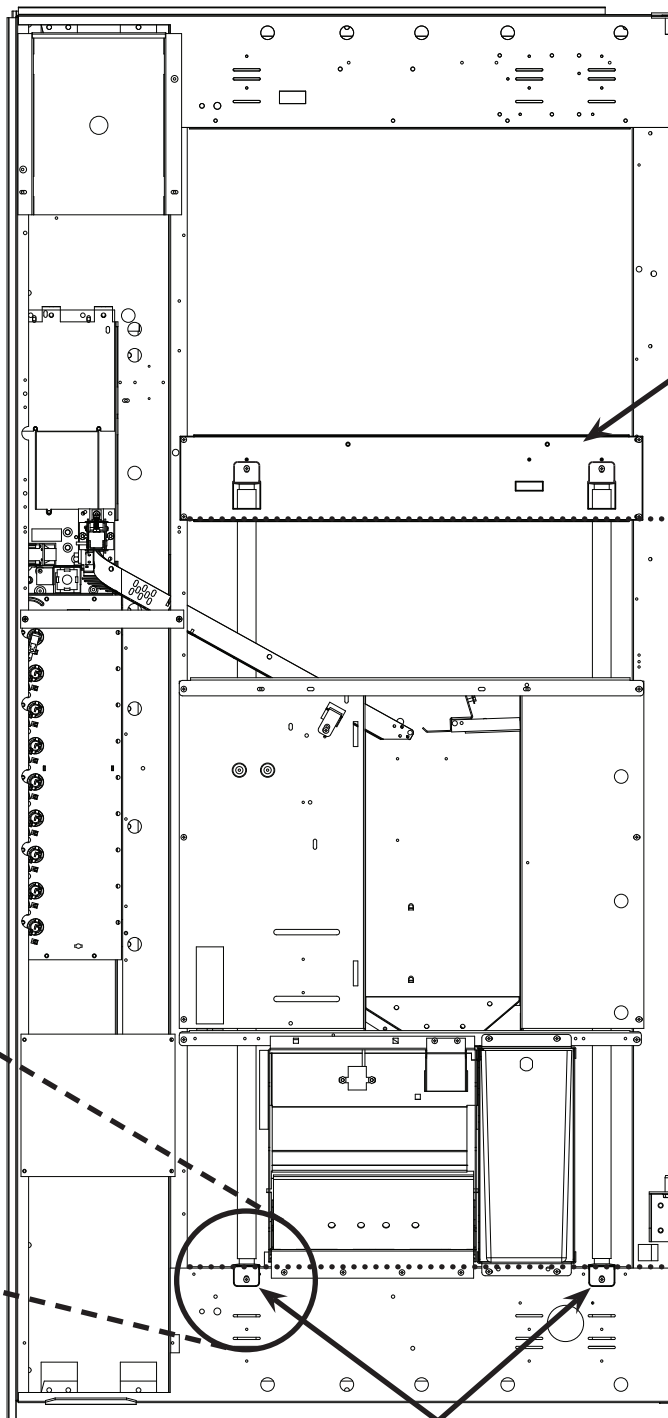
Figure 1.

Installation of the lamp panel and the bottom lamp brackets is shown here.

Mount the bottom lamp brackets on the top edge of the bottom bulkhead of the door, as seen here. Use one #8 self-drilling screw to mount each bracket.



The lamp bracket should be centered and aligned with the lamp bracket slots in the door chassis.



Lamp panel with upper lamp brackets installed

The bottom edge of the lamp panel should be 46.00" (117.0 mm) from the top edge of the bottom bulkhead.

46.00"
116.8 cm

Bottom lamp brackets

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Figure 2. LED conversion harness wiring diagram

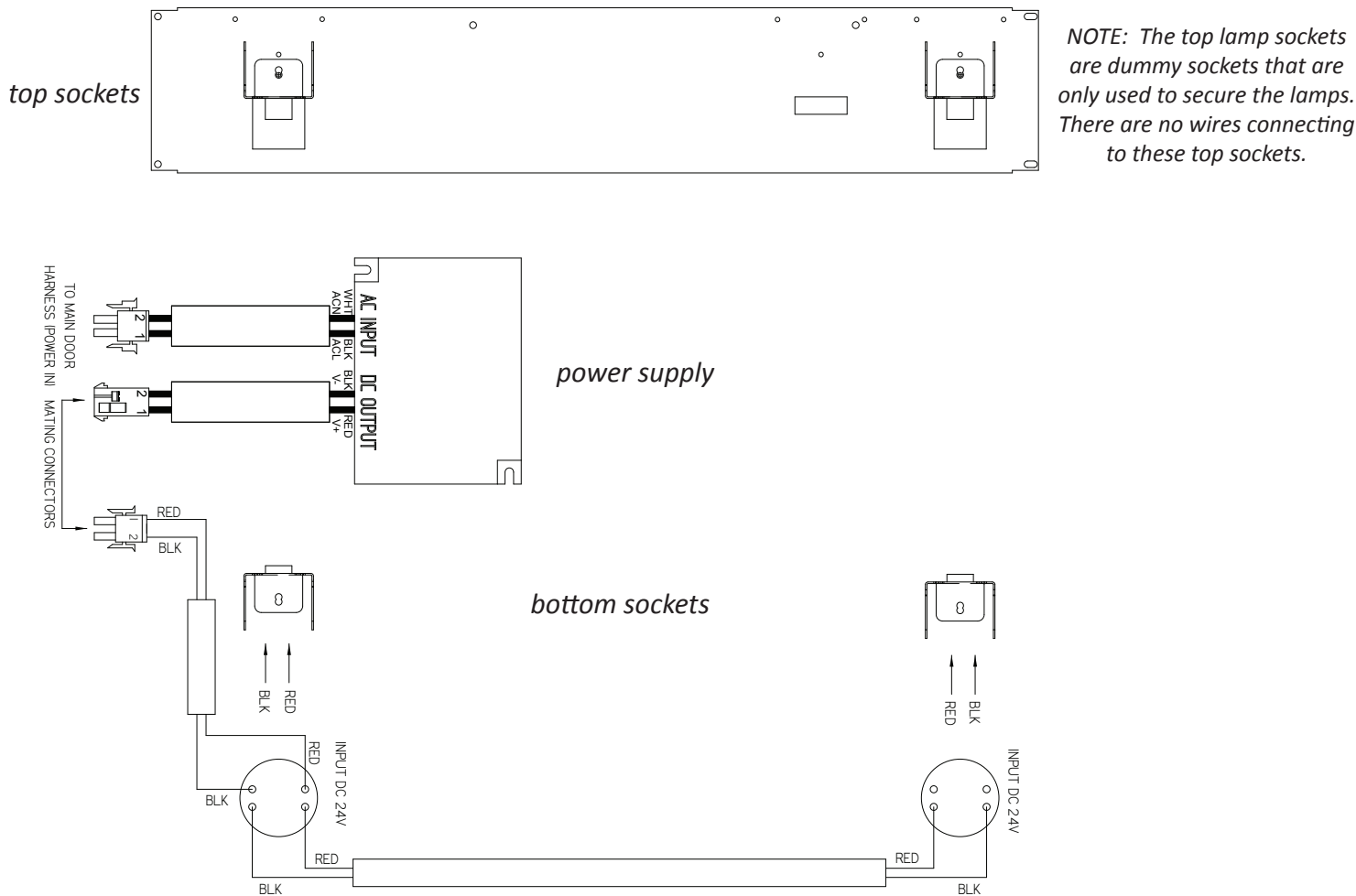
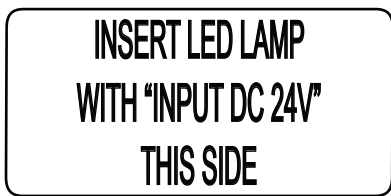


Figure 3. 24 VDC input label



Install the label along the bottom bulkhead of the door, adjacent to the bottom lamp brackets, to indicate the direction in which the LED tubes must be installed.

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