





# SERVICE BULLETIN 244

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Page: 1 of 2
Date: 2 Nov 09
Revision: 01

<b>SUBJECT:</b> Retrofitting Merlin Venders with T8 Lighting		Number of People Required 
<b>MODELS:</b> Merlin IV, TDV, Milk, EZ Vender (beginning s/n 1601XX, except Live Display venders)		
KIT NUMBER	KIT DESCRIPTION	 <p>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, and refrigeration system; 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.</p>
261599	79" T8 Lighting Kit, Merlin Wide	
262599	72" T8 Lighting Kit, Merlin Wide	
<b>TOOLS REQUIRED:</b> Phillips screwdriver		
<b>ESTIMATED INSTALLATION TIME:</b> 20 minutes		

**REASON FOR BULLETIN:** This bulletin describes the proper procedure for retrofitting the T8 lighting system in venders which were originally built with T12 lighting.

## INSTALLATION INSTRUCTIONS:

*NOTE: This kit is only for use in Merlin venders with serial numbers beginning with 1601XX and higher.*

*Refer to illustration on page 2.*

1. Remove power by unplugging the vender's power cord from the AC voltage source (wall outlet).
2. Remove original fluorescent bulbs from the vender.
3. Remove original ballast.
4. Remove original lamp brackets.
5. Install lamp panel brace. Measure from the bottom of the door 41 1/4" (104.8 cm) to the eyehole of the lamp panel brace, and fasten it with two screws from the kit.
6. Install bottom lamp brackets in the slot closest to the bottom of the door, as shown in the illustration.
7. Install upper lamp panels. For location, see illustration. Secure with two screws from the kit.
8. Attach four lamp brackets to the panel as shown. Secure with two screws from the kit.
9. Install upper right lamp bracket in top slot.
10. Install upper left lamp bracket as shown. Bracket should be installed in top slot.
11. Mount ballast in original ballast location. Secure with self-drilling screws from kit.
12. Connect ballast lead to main door harness.
13. Install new T8 bulbs. *(This kit requires four bulbs: two 24" bulbs [top] and two 48" bulbs [bottom].)*
14. Wire-tie excess harnessing away from bulbs.
15. 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](http://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  
 IN NORTH AMERICA, CALL TOLL FREE 1 800 931 9214**



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**SUBJECT:** Retrofitting Merlin Venders with T8 Lighting

**MODELS:** Merlin IV, TDV, Milk, EZ Vender (beginning s/n 1601XX, except Live Display venders)

**Note:** The 72" CDC door is shown in this illustration.  
Installation is the same for all other doors covered



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, and refrigeration system; 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.

Lamp panels

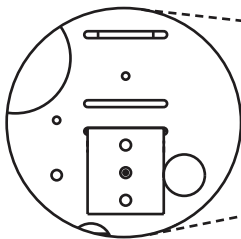
Lamp panel brace

Secure top of lamp panels using self-drilling screws from kit.

Secure bottom of lamp panels with screws from kit, using existing holes in lamp panel brace to determine correct location.

41 1/4"  
104.8 cm

Install bottom lamp brackets in slot closest to bottom of door.



**Note:** Use a 1/8" (3 mm) drill bit for all holes which require drilling.

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