CRANE MERCHANDISING SYSTEMS
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# M113.2
# BevMax 3 Coke LED Lighting Kit

**Revised 10/8/10**

**Models Affected:** All Coke DN5800 BevMax 3 Model Venders.

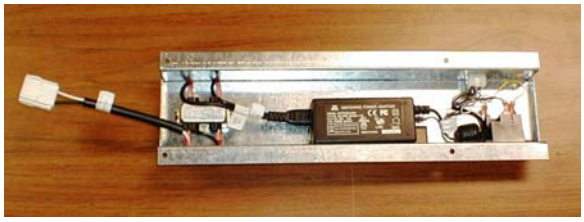
**Reason:** To provide installation instructions to install the LED Lighting Kit in Coke BevMax 3 venders with fluorescent lighting. Note: for BevMax 4 LED Lighting Kit refer to M109.x.

**Order:** 1 – 64701150 BevMax 3 Field Upgrade LED Kit

Contents:

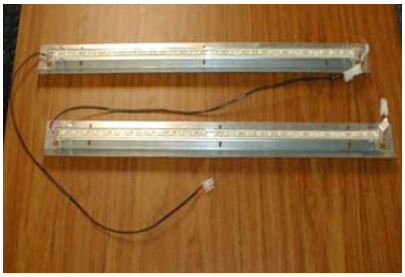
| | |
|---|---|
| 1 – 657,011,60x.x3 | LED Upper Lighting Assembly |
| 1 – 657,011,70x.x3 | 2 LED Lighting Lamp Assembly |
| 1 – 657,011,80x.x3 | LED Power Module Assembly |
| 1 – 804,929,31x.x1 | Harness Relay Extension with LED's |
| 1 -- 804.929.32x.x1 | Harness, AMP to JST Jumper |
| 1 – M113.x | Installation Instructions BM 3 Coke |

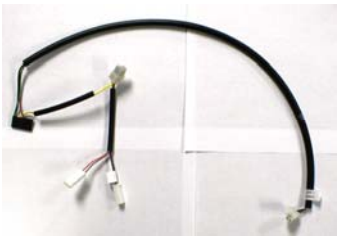
Note: This kit supports light control similar to original fluorescent lighting. The side lights will turn off if no activity within set time.



**LED Power Module Assembly**
**Figure 1**

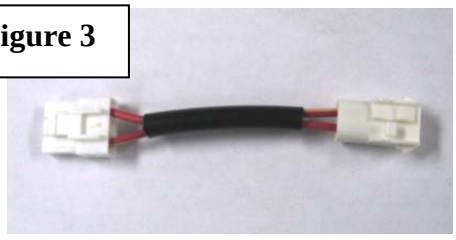
**Upper LED Lighting Assembly**
**Figure 2**





**Relay Extension Harness 804,929,31x.x1**
**Figure 4A**

**Figure 3**

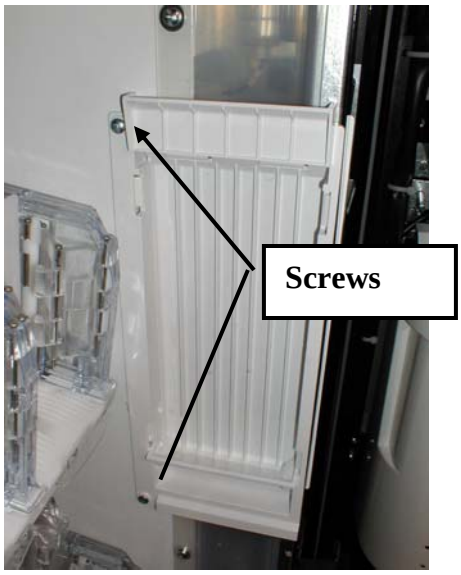


# Installation instructions:

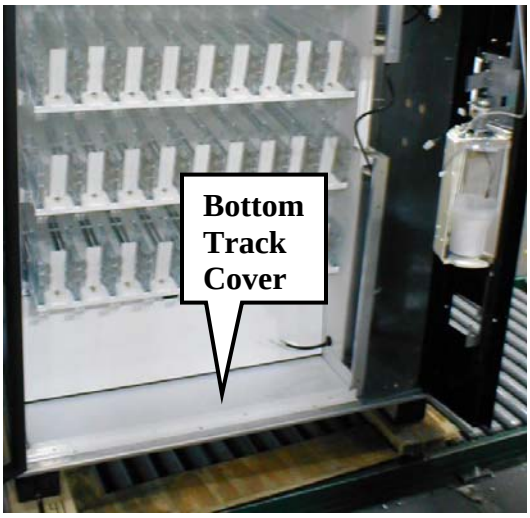
1. **Switch the power to the machine off or unplug the power cord before installing this kit.**

2. **Remove the current fluorescent lighting assemblies from the vender.**
    a. Remove and store the Perma gum (putty) from the lighting harness access holes in the cabinet wall.
    b. Disconnect all existing lighting harness connections from the current power supply including the filter (if used) located in the upper portion of the service area, figure 16.
    c. Unplug the lighting harnesses from the ballast and put them through the access holes into the product side of the wall. With the harness disconnected you can now remove the ballast assemblies from the service area by removing the screws.
    d. Remove the delivery door and frame assembly by removing the two Philips screws (shown in Fig. 5) and unsnapping the frame. Set aside for reuse.
    e. Remove the bottom track cover (Fig.6)
    f. Remove the upper and lower vertical lamp lens from the right wall. (Fig. 7 and Fig. 8**)**
    g. Remove the 3 fluorescent bulbs from the existing upper and vertical lamp assemblies.
    h. Unscrew the mounting screws that hold the vertical fluorescent lamp assemblies in place and remove the lamp assemblies.
    i. Unscrew the 6 mounting screws that are holding the upper lamp assembly to the cabinet and remove the lamp assembly.
    j. Be sure to dispose of old fluorescent bulbs properly.

3. **Install the LED Lighting Assemblies**
    a. Utilizing the original mounting screws, and mounting holes that held the upper lamp assembly in place. Position and secure the LED Upper Lamp Assembly to the top of the interior cabinet. (Fig. 9)
    b. Route the two wire harness through the wiring access hole located in the upper right wall.
    c. Loosely install the two vertical LED Lamp Assemblies into the channels in the right wall. Route the wire harness that links the two lamp assemblies around the port opening. Route the wire harness at the top through the harness access hole located in the top of the upper channel.
    d. Using the screws and mounting holes that held the vertical fluorescent lamps, secure the LED Lamp Assemblies.
    e. Check all 3 LED Bulbs to be sure the LED's are facing outward towards the product area.
    f. Re-install the two vertical lamp lens and secure with the original fasteners (Fig. 7 and Fig. 8)
    g. Re-install the port frame and door assembly (Fig. 5) (Insure the lighting harness in out of the way before snapping the frame together.
    h. Re-install the lower track cover and fasten securely in place (Fig. 6)




**Port Door and Frame**
**Figure 5**




**Bottom Track Cover**
**Figure 6**

**Upper Lamp Lens**
**Figure 7**

**Lower Lamp**
**Figure 8**

**Upper LED Lamp Assembly**
**Figure 9**

4. Make the connections
    a. Remove the existing relay harness from the P7A location on the control board (Fig. 12) and unplug it from the AC Power Supply box. (Fig. 11)
    b. Connect the Relay extension harness provided in the kit (shown in figure 10) to the P7A connector on the controller (Fig. 12) and the 4 pin Relay connection on the AC Power Supply Box. (Fig.11)

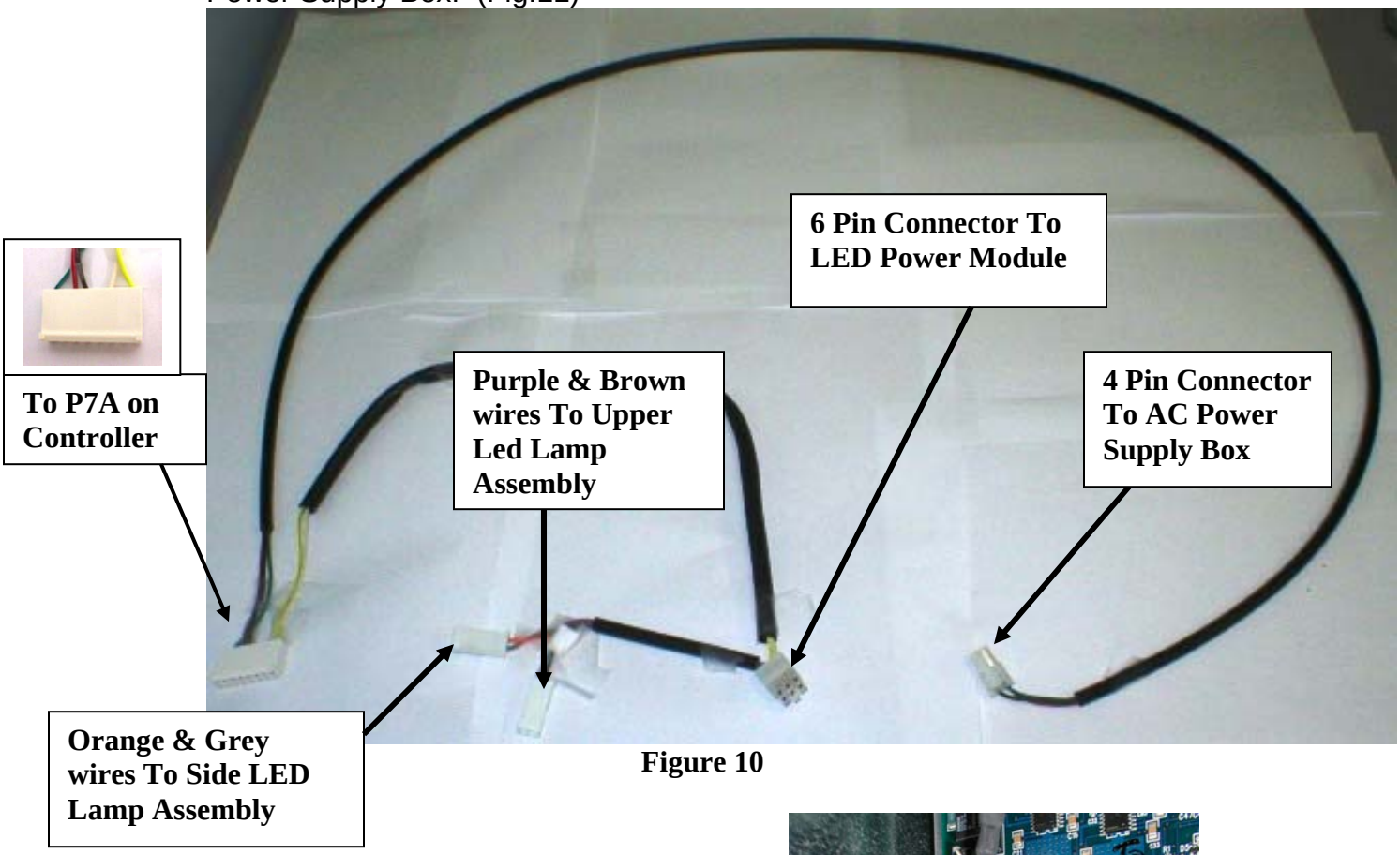



**Figure 10**

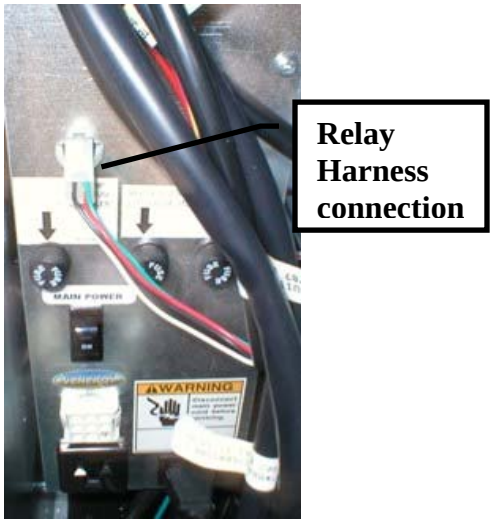



**Figure 11**

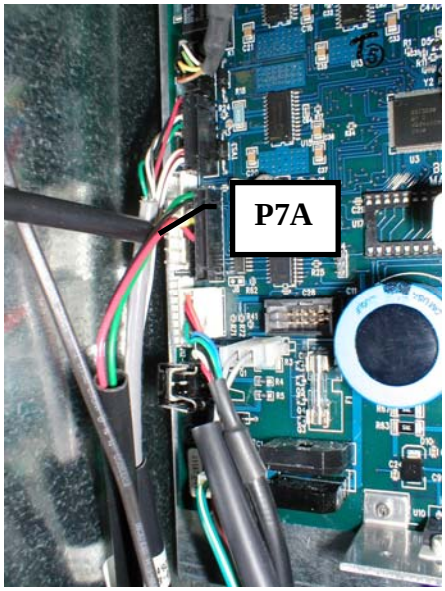
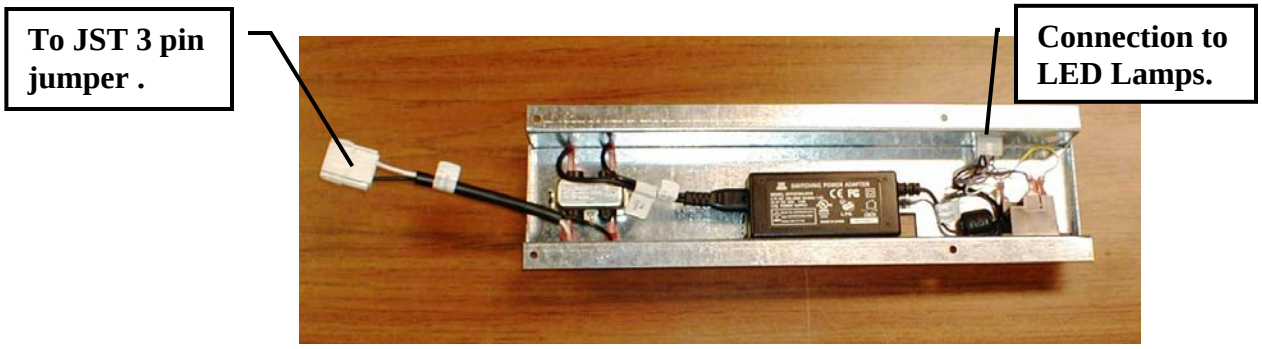



**Figure 12**

5. Install the Power Module
    a. Connect the 6 pin connector of the Relay extension harness (shown in figure 10) to the 6 pin receptacle located on the side of the LED Power Module (shown in Fig 13).
    b. Position the LED Power Module Assembly on the left wall in front of the Controller and mark the four mounting holes with a pencil or marker. Using the mars pre drill the 4 mounting holes. You will have to use a right angle power driver to drill and secure the LED Power Module to the wall.
    c. Secure the LED Power Module to the wall.
    d. Connect the LED Lamp harness connections as shown in (Fig. 10 and 14).
    e. Connect the 3 pin harness extending from the bottom of the LED Power Module to the JST jumper (Figs. 4B &15A). Then connect the other side of the JST jumper to the 2 pin coming from the AC Power Box connector, shown in (Fig. 15B).
    f. Route the wiring through the harness ties on the cabinet wall.
    g. Reinsert the Perma Gum that was removed in step 2a, in the Light harness Access holes
    h. Turn the power back on. In programming go to the light relay test to ensure the LED Lights are working correctly. Note: the top light should stay on and the side lights should go off during the test.




**LED Power Module Assembly Figure 13**

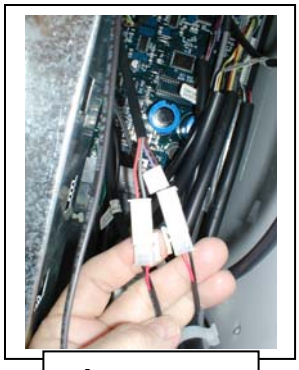


**Figure 14**

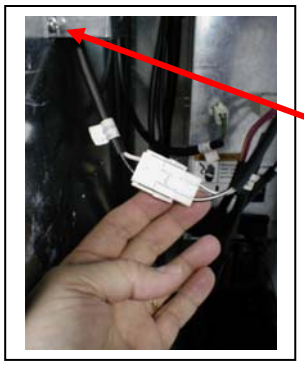
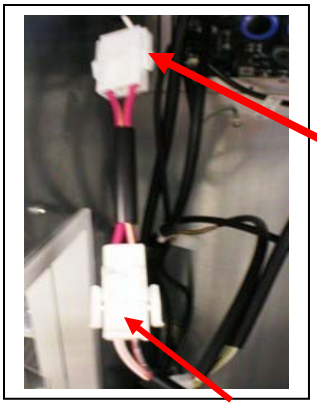



**Figure 15A**




**Light filter Figure 16**