

TFT Backlight Bulb Replacement

Introduction

This document describes the procedures required to replace the backlight bulbs (model number BLR-6080) in P3, P4, and P5 TFT PowerStations. It includes instructions for opening the PowerStation, removing the backlight bulbs, replacing the bulbs, closing the PowerStation, and restoring the unit to operation.



Warning Observe normal precautions against electrostatic discharge (ESD) to prevent damage to the PowerStation or the backlight assembly.

Before You Start

Turn off the unit and disconnect the PowerStation from the power source. You also must remove the unit from its enclosure (if installed) to gain access to the display. Consult your *PowerStation User Guide* if you need help with the removal.

Be sure that you have a slotted head (#2) screwdriver.

Opening the PowerStation

In order to replace backlight bulbs, you must first open the PowerStation.

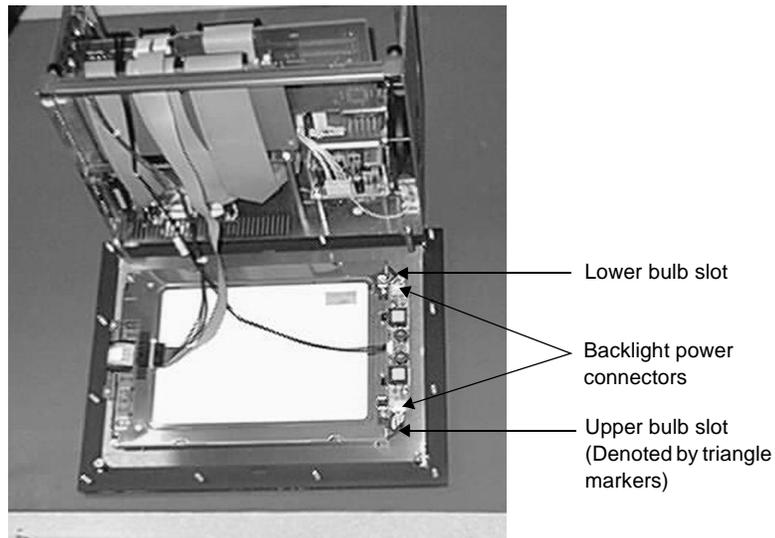


Warning For safety reasons, the PowerStation should be opened only by qualified service personnel.

To open the PowerStation, complete the following steps:

1. Unscrew the four large captive screws located at each corner of the PowerStation's back cover.
2. Open the PowerStation so that you have access to the entire display. The illustration at the top of the next page shows a good setup for the bulb replacement.

Important Do not touch any of the exposed components on the backlight display; you may damage the equipment.

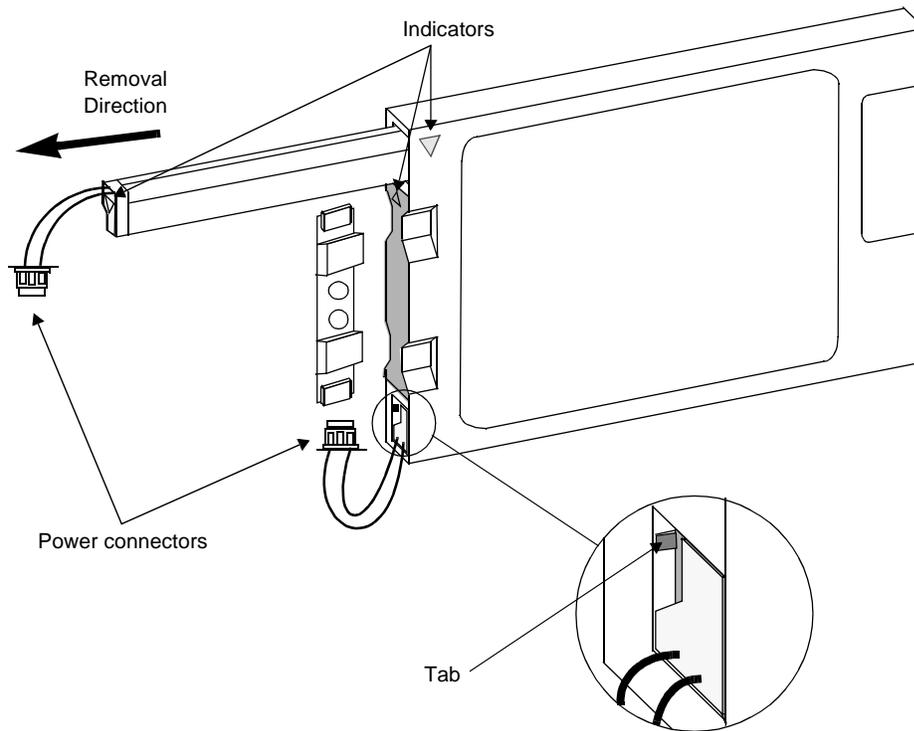


Removing the Bulbs

After you have opened the PowerStation, you will be able to remove the backlight bulbs. CTC Parker recommends that you replace both bulbs at the same time.

To remove the old backlight bulbs, complete the following steps:

1. Disconnect one set of bulb wires from the backlight inverter by pulling the connector out carefully. See the illustration on the next page for the location of the connectors.
2. Find and depress the tab at the wire end of the bulb, holding the tab down with the slotted head screwdriver. See the illustration on the next page for the location of the tabs.
3. While the tab is pressed down, gently pull the wires away from the display to remove the bulb. The bulb should slide out the side of the display as shown in the illustration on the next page.
4. Repeat steps 1-3 for the second backlight bulb.
5. Discard the old bulbs.



Replacing the Bulbs

Replacing the backlight bulbs requires that you know which bulb goes in which slot. A small triangle identifies the bulb that goes in the slot with the same marking. These “indicators” are shown in the illustration above.

To replace the backlight bulbs, complete the following steps:

1. Take a replacement bulb out of the box.
2. Slide the new bulb into its slot. Push the bulb in until you hear a click, and the end of the assembly is flush with the edge of the slot.

Note Be sure to insert the bulb with the triangle marking into the slot with the same marking.

3. Connect the backlight bulb power connector to the corresponding connector in the unit. The connectors can only be attached in the correct position and should slide in easily.

4. Repeat steps 1-3 for the second backlight bulb.

Closing the PowerStation

After you have replaced the backlight bulbs, close the PowerStation.

To close the PowerStation, complete the following steps:

1. Replace the back cover on the front of the PowerStation, making sure that you do not pinch the ribbon cable.
2. Secure the back cover with the four large captive screws that you removed in step 1 of *Opening the PowerStation* on page 1.

Restoring the PowerStation

To restore the PowerStation to operation, complete the following steps:

1. Test the new backlight bulbs by connecting the PowerStation to a power source and turning the unit on. If a problem arises, consult these instructions or the *PowerStation User Guide*.
2. Turn off the PowerStation and disconnect it from the power source.
3. Return the PowerStation to its enclosure (if previously installed).
4. Reconnect the PowerStation to the power source.
5. Turn on the PowerStation and resume operations.