

STN Backlight Bulb Replacement

Introduction

This document describes the procedure to replace the backlight bulbs (model number BLR-6060) in P2, P3, P4, and P5 STN PowerStations. It includes instructions for opening the PowerStation, removing the backlight bulb, replacing the bulb, 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 the following tools:

- Slotted head (#2) screwdriver
- Phillips head (#0) screwdriver
- Quarter inch nutdriver.

Opening the PowerStation

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

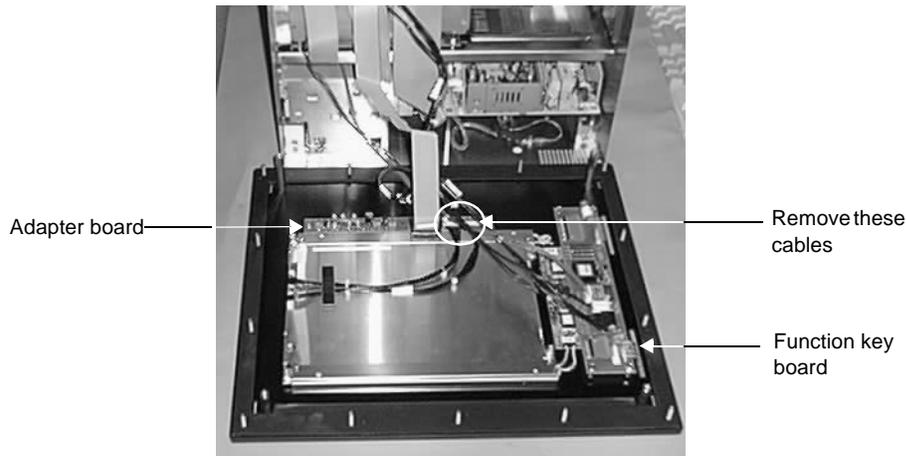


Warning For safety reasons, the PowerStation should be opened only by qualified service personnel.

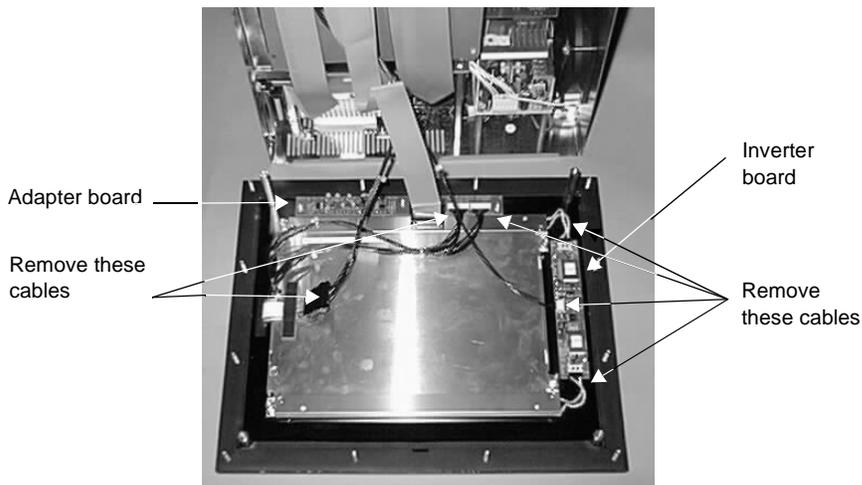
To open the PowerStation, complete the following steps:

1. Unscrew the four large captive screws located at each corner of the PowerStation's back cover.
2. Lift the back cover off the faceplate far enough to gain access to the internal cables. The two illustrations on the next page show the locations of the cable connectors on a function key and a non-function key PowerStation.

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Function Key PowerStation



Non-Function Key PowerStation

3. Remove the cables indicated in the preceding illustrations.

Important There are two cables on the adapter board that have identical connectors. Please make a note of which wire belongs on which connector when you remove the wires.

4. Clear the remaining wires from above the backlight unit so that you have access to the bulb covers.

5. Remove the screws holding the adapter board in place and set the board to the side. For the location of the adapter board, see the preceding illustrations.

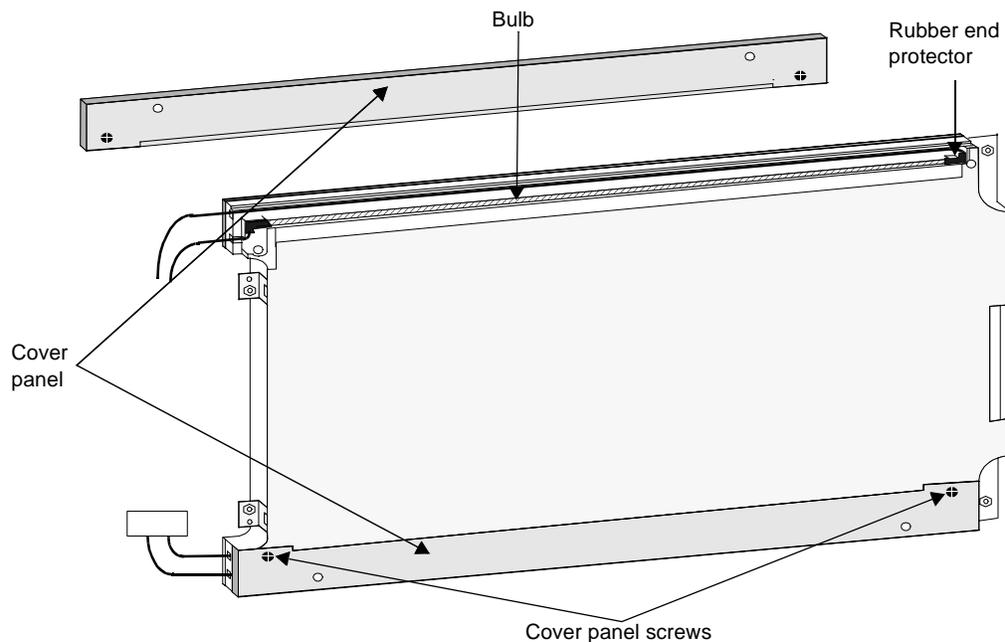
Important Do not touch any of the exposed components on the backlight display; you may damage the equipment.

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. Unplug the bulb cables from the inverter board. See the non-function key illustration on the preceding page for the location of the inverter board.
2. Remove the two screws holding the cover panel to the display. See the following illustration for the locations of these screws.



Note The screws holding the cover panels to the display are very small; do not lose them.

3. Lift the cover panel away from the display.
4. Pull the bulb out of its slot by pulling up on the bulb connector wires.
5. Repeat steps 1-4 to remove the second backlight bulb.
6. Discard the old bulbs.

Replacing the Bulbs

To replace the backlight bulbs, complete the following steps:

1. Take a replacement bulb out of the box.
2. Place the replacement bulb into the bulb slot in the backlight assembly. Be sure to place the longer wire in the cable slot nearest to the edge of the display.
3. Place the wires over the wire slots and gently run your finger over them to push them into place.

Warning Do not use a screwdriver to push the wires into the wire slots. You may damage the bulb.

4. Replace the cover panel. The panel should fit snugly with the screw holes lined up.
5. Screw the cover panel to the backlight display with the screws removed in step 2 of the previous section, *Removing the Bulb*.
6. Connect the bulb connector to the inverter board. The connector will only fit in the correct position. See the non-function key illustration on page 2 for the location of the inverter board.
7. Repeat steps 1-6 to replace 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. Reconnect the cables that you removed in the steps for *Opening the PowerStation*. See the illustrations on page 2 for the location of these cables.

Important The two cables attached to the adapter board have identical connectors. Be sure to place the cable with tag number 9741 into the p1 slot, and the cable with tag number 9742 into the p2 slot.

2. Replace the back cover on the front of the PowerStation, making sure that you do not pinch the back cover ribbon cable.
3. 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 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 the PowerStation on and resume operations.

