

PX10 Color Backlight Replacement

Introduction

These instructions explain how to replace backlight bulbs in the P1-10" and PS10 TFT Color PowerStations. They include steps for disassembling the unit, removing the old bulbs, installing new ones, and reassembling the unit. These instructions are used with replacement kit BLR-6100.



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

Be sure to observe electrostatic discharge (ESD) precautions while working inside the unit.

Before You Start

You must remove the unit from its enclosure (if installed) to gain access to the display. Consult the appropriate PowerStation User Guide for your system if you need help with the removal.

To complete these instructions, you will need the following items:

- The backlight bulb replacement kit that you purchased, which includes the following:
 - 1 backlight replacement bulb
 - Electrostatic Discharge Kit
- Flat-head screwdriver
- Phillips-head screwdriver

Electrostatic Discharge Precautions

Modern integrated electronic devices, especially CPUs and memory chips, are extremely sensitive to electrostatic discharges (ESD) and fields. Before you disassemble the PowerStation, be sure to use the Electrostatic Discharge Kit to protect you and the PowerStation from harm resulting from ESD.

Important Open the Electrostatic Discharge Kit and follow the directions for attaching the wrist strap and handling sensitive electronic components.

Disassembling the Unit

To disassemble the unit, complete the following steps:

1. Turn off the unit.
2. Disconnect the unit from the power source.
3. Disconnect all cables attached to the unit.
4. Remove the unit from its enclosure, and place it on its back on a static dissipative mat in a location free from dirt and moisture and protected against static discharge.
5. Remove the 12 screws that secure the touchscreen to the unit shown in *Figure 1*.

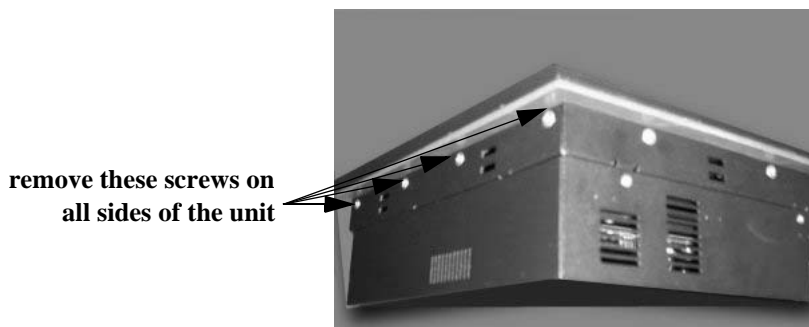


Figure 1 Removing the Touchscreen Screws

6. Carefully lift the touchscreen and lay it aside, as shown in *Figure 2*.

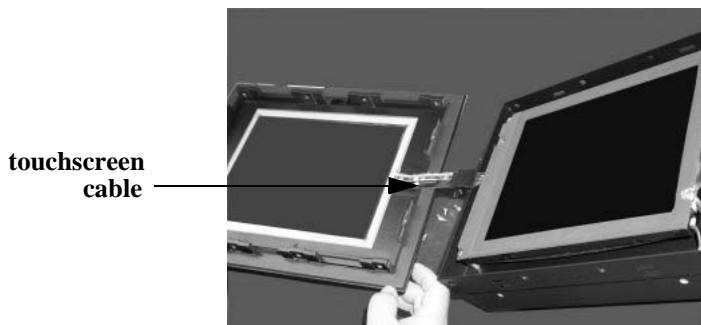


Figure 2 Disassembling the Touchscreen

7. Disconnect the touchscreen cable shown in *Figure 2*.
This will free the touchscreen from the rest of the unit. The touchscreen may be placed aside.

8. Disconnect the backlight cable, shown in *Figure 3*, from the inverter.

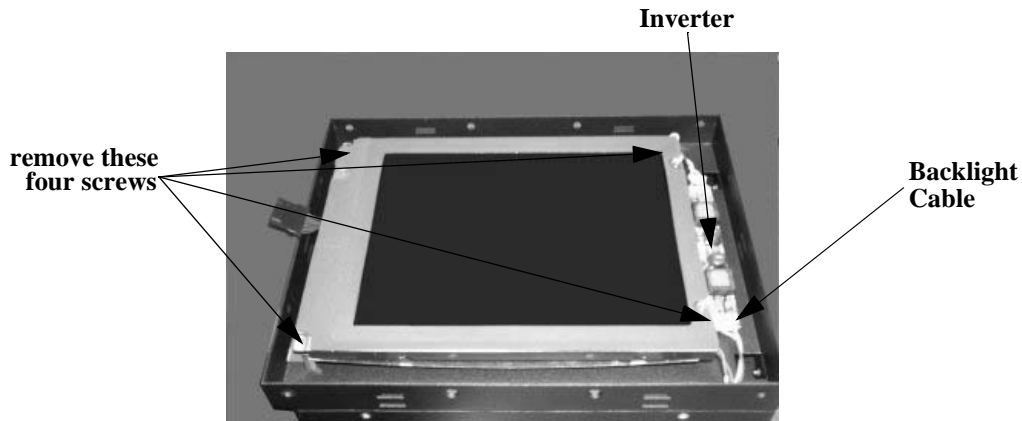


Figure 3 Disassembling the Display Unit

9. Remove the four screws, shown in *Figure 3*, that secure the display unit.
10. Gently lift the display unit out of the shell.
11. Disconnect the display cable, shown in *Figure 4*.

Note The unit displayed in *Figure 4* is a PS10 Bright Color PowerStation, which includes a reflective metal noise shield behind the display unit. Your PowerStation will not include this noise shield.

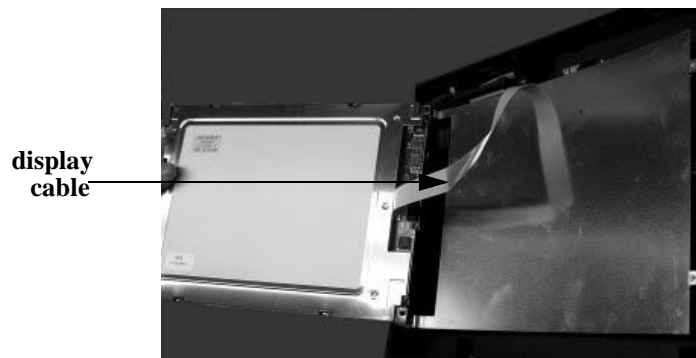


Figure 4 Disconnecting the Display Cable

Removing Backlight Bulb

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

1. Locate the backlight bulb on the side of the display unit. See *Figure 5*.

2. While pulling outward on the tab shown in *Figure 5*, gently pull the backlight bulb cable to remove the bulb.

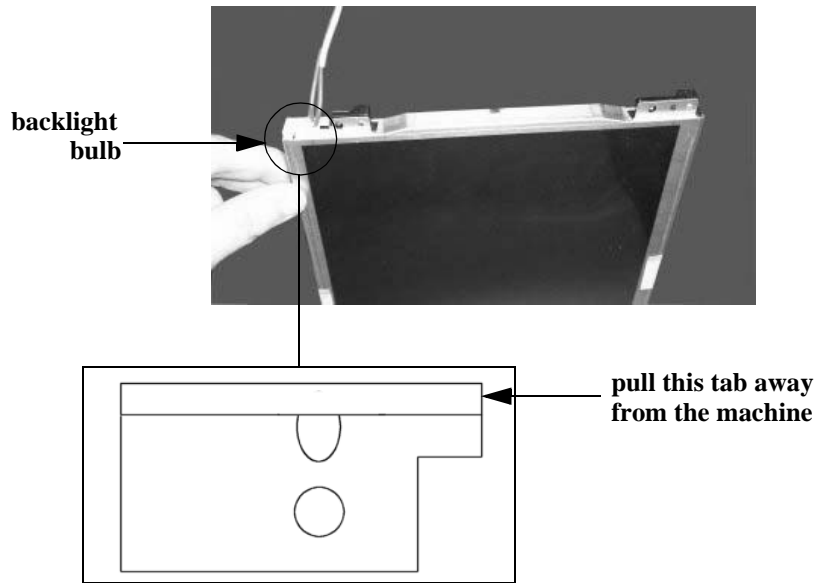


Figure 5 Removing the Backlight Bulb

Installing Backlight Bulb

To install the new backlight bulb, complete the following steps:

Important Make sure that all of the backlight and display components are free of dust or dirt before you assemble them.

1. Insert the new bulb into the socket where you removed the old bulb.

Important Ensure that the backlight cables are pointed up.

2. Slide the bulb completely into the socket until it locks in place.

Reassembling the Unit

To reassemble the unit, complete the following steps:

1. With the PowerStation resting on its back, reconnect the display cable.
2. Replace the display unit and align it with its screw holes.

Important The touchscreen cable should be threaded under the display unit and up through the opening at the left side of the display unit (when the PowerStation is on its back with the inverter on the right side of the unit). See *Figure 2* for the proper placement of the touchscreen cable.

3. Screw the display unit into place using the four screws you previously removed.
4. Re-attach the backlight cable.

5. Re-attach the touchscreen cable.
6. Lay the touchscreen on the unit.
7. Replace the 12 screws you previously removed to secure the touchscreen to the unit.

This completes the assembly of the unit. You may now install your PowerStation in its protective enclosure and connect the power.

When you first operate the unit, you may need to calibrate the touchscreen. If the position of the cursor does not match the location where the user touches the screen, see *Calibrating the Touchscreen* in the appropriate PowerStation User Guide for your system.

