

# PA10T/PS10/P1-10 Backlight Replacement

## Introduction

These instructions explain how to replace backlight bulbs. The instructions 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-6101. Follow the section of these instructions that applies to your unit.

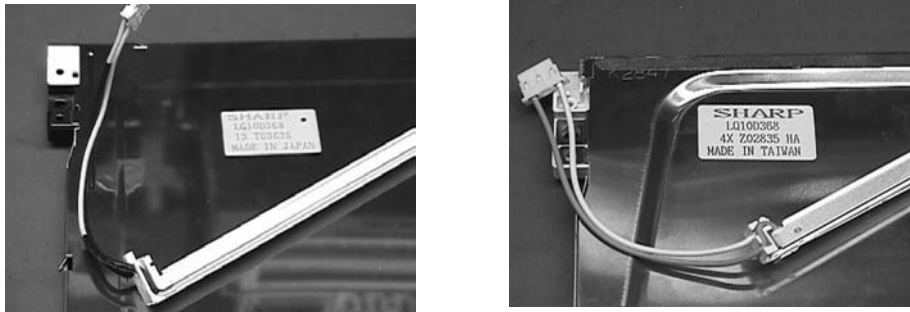
Bulb kit BLR-6101 is used in the following platform and model numbers of Color Power-Stations.

Platform	Model #	Serial #*	Bulb Kit
PS10/PC10/ PX10	PX10-xx2-xxx- xxx	100 to 104	BLR-6100
		105	Depends on Date code. See note below.
		106 and higher	This kit: BLR- 6101
PS10/PC10/ PX10	PX10-xx(4 or 6)-xxx-xxx	All serial num- bers	This kit: BLR- 6101
P1 10"	P15-xxxxx-x	100 and 101	BLR-6100
		102	Depends on Date code. See note below.
PA10T	All models	All serial num- bers	This kit: BLR- 6101

\* This number is the last three digits of the unit serial number found on the Model/Serial number label.

**Note** Due to the unknown manufacturing time frame of this change, the date code on the back of the display must be checked in order to purchase the correct BLR kit. Date codes of 2X XXXXXX and higher require the BLR-6101 kit. The "2" specifies the year 2002 while the "X" specifies October. An example of a higher date code would be "2Y". Date codes of 2W XXXXXX or lower require the BLR-6100 bulb kit. An example of a lower date code would be "1F", which was manufactured in 2001.

The date code of the display is located on the back of the display. The figures below illustrate the label location. The left represents display types supported by the BLR-6100 kit while the right figure represents display types supported by the BLR-6101 kit.



**Figure 1 Display Date Label Locations**



**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

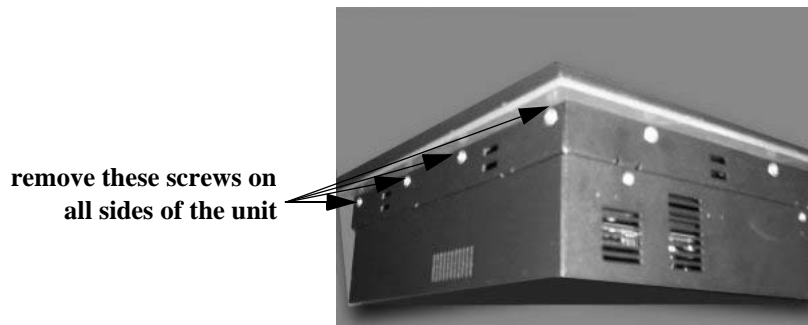
Modern integrated electronic devices, especially CPUs and memory chips, are extremely sensitive to electrostatic discharges (ESD) and fields. Before you disassemble the PowerStation, be sure to use the Electrostatic Discharge Kit to protect you and the PowerStation from harm resulting from ESD.

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

## Disassembling the PA10T Unit

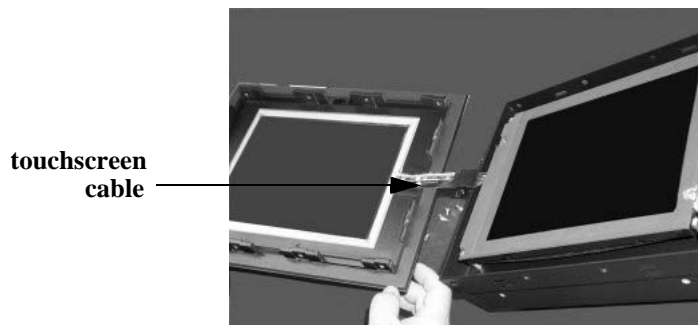
To disassemble the unit, complete the following steps:

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 2*.



**Figure 2 Removing the Touchscreen Screws**

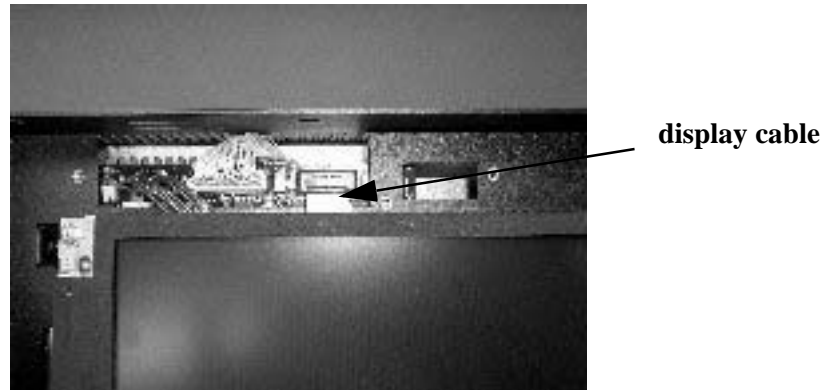
6. Carefully lift the touchscreen and lay it aside, as shown in *Figure 3*.



**Figure 3 Disassembling the Touchscreen**

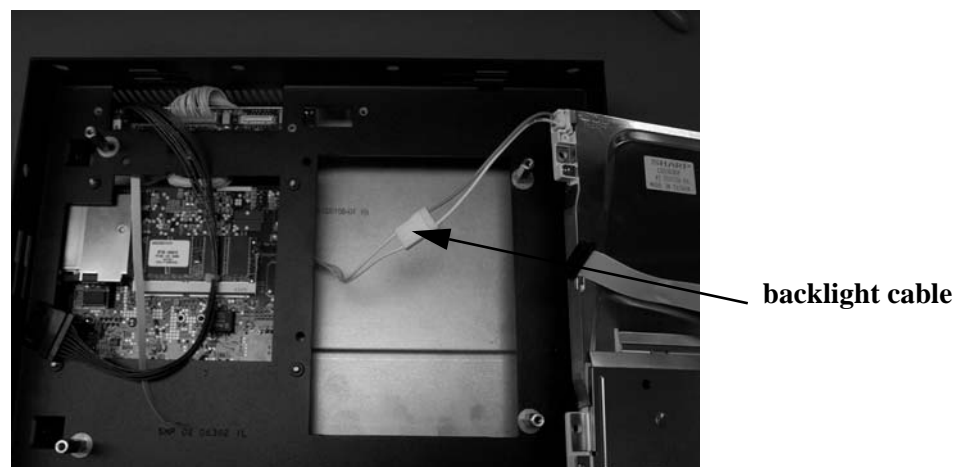
7. Disconnect the touchscreen cable shown in *Figure 3*.  
This will free the touchscreen from the rest of the unit. The touchscreen may be placed aside.

8. Disconnect the display cable, shown in *Figure 4*, from the board.



**Figure 4 Disconnecting the Display Cable**

9. Remove the four screws that secure the display unit.
10. Gently lift the display unit out of the shell.
11. Disconnect the backlight cable, shown in *Figure 5*, from the display.

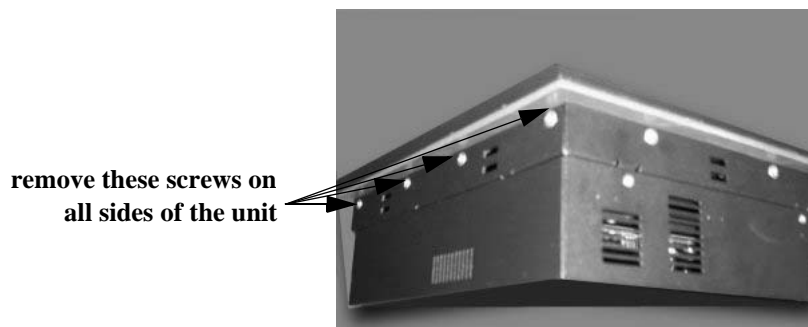


**Figure 5 Disconnecting the Backlight Cable**

## Disassembling the PS10/PC10/PX10 and P1 10" Units

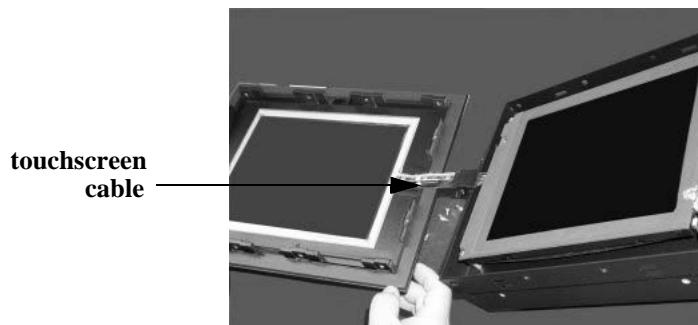
To disassemble the unit, complete the following steps:

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 6*.



**Figure 6 Removing the Touchscreen Screws**

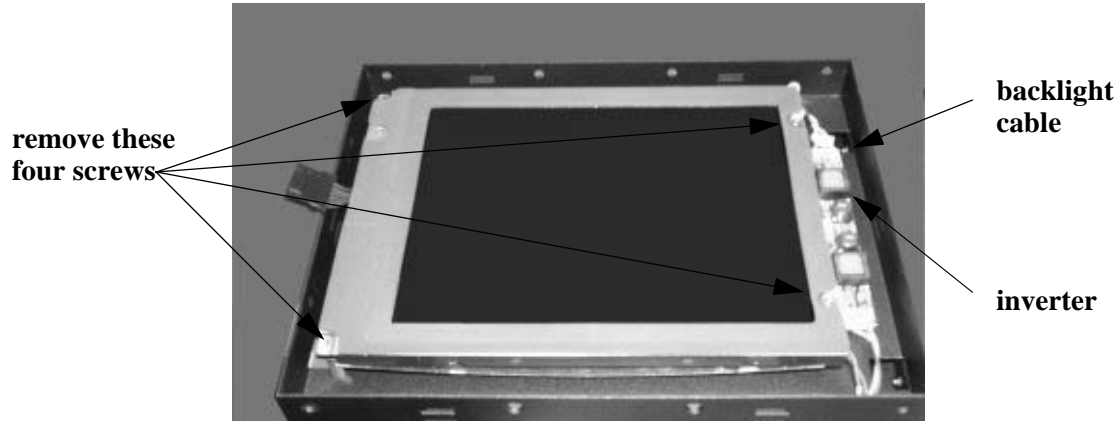
6. Carefully lift the touchscreen and lay it aside, as shown in *Figure 7*.



**Figure 7 Disassembling the Touchscreen**

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

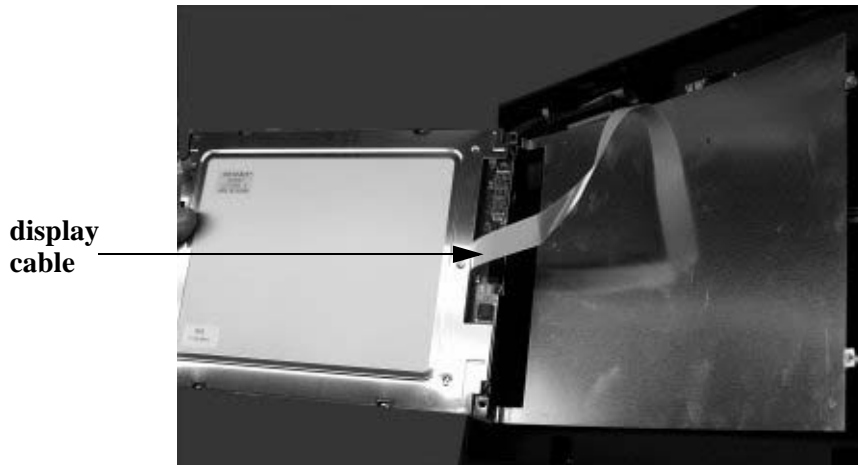
8. Disconnect the backlight cable, shown in *Figure 8*, from the inverter.



**Figure 8 Disassembling the Display Unit**

9. Remove the four screws, shown in figure 8, that secure the display unit.
10. Gently lift the display unit out of the shell.
11. Disconnect the display cable, shown in *Figure 9*.

**Note** The unit displayed in *Figure 9* 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 9 Disconnecting the Display Cable**

## Removing Backlight Bulb (all units)

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

1. Locate the backlight bulb on the side of the display unit. See *Figure 10*.
2. While pushing the tab towards the top of the bulb, as shown in *Figure 10*, gently pull the backlight bulb cable to remove the bulb.

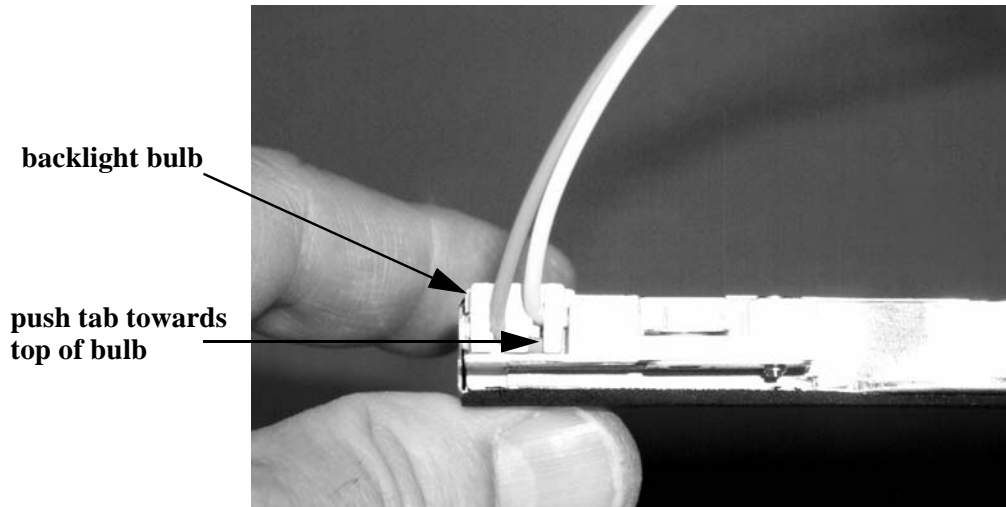


Figure 10 Removing the Backlight Bulb

## Installing Backlight Bulb (all units)

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

## Reassembling the PA10T Unit

To reassemble the unit, complete the following steps:

1. Reconnect the backlight cable, ensure you properly line up the connector tabs.
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). See *Figure 3* 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 touchscreen cable.

5. Lay the touchscreen on the unit.
6. 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.

## Reassembling the PS10/PC10/PX10 and P1 10" Units

**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 7* 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.