

P1P Display Replacement Guide

Introduction

These instructions explain how to replace the display unit in the P1P TFT Color PowerStation after the backlight bulbs have reached their lifespan. The instructions include steps for disassembling the unit, removing the old display, installing the new display, and reassembling the unit.

Use these instructions with replacement kit DSP-1004.

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 your *P1 Pentium PowerStation User Guide* if you need help with the removal.

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

- The display replacement kit that you purchased, which includes the following:
 - Display unit (with two backlight bulbs installed)
 - Electrostatic Discharge Kit
- Large flat-head screwdriver
- Small Phillips-head screwdriver
- Needle-nosed pliers (optional)

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 PowerStation.
2. Disconnect the PowerStation from the power source.
3. Remove the PowerStation from its enclosure if it's installed in one.
4. Place the PowerStation on its back on a static dissipative mat in a location free from dirt and moisture and protected against static discharge.
5. Locate the notches on all sides of the unit.
6. Insert a flat head screwdriver into one of the notches and twist. *Figure 1* displays two of the notch locations.

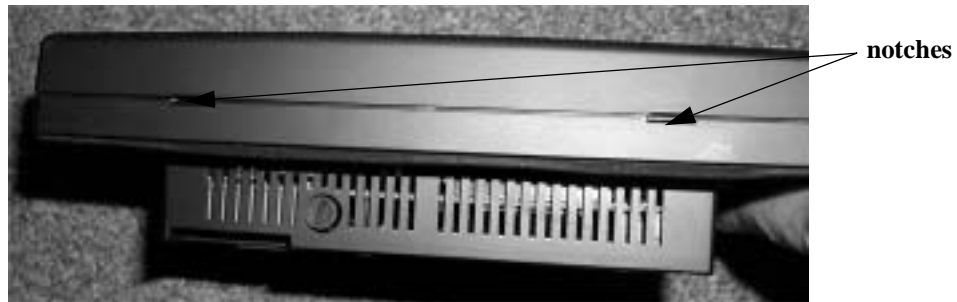


Figure 1 Removing the Cover

7. Repeat step 6 on as many notches as necessary until the cover is loosened from the unit.
8. Remove the cover and set aside.
9. Remove the eight screws that secure the touchscreen to the back shell.
10. With the touchscreen cable still connected to the CPU board, set the PowerStation on its edge with the touchscreen perpendicular to the unit as shown in *Figure 2*.

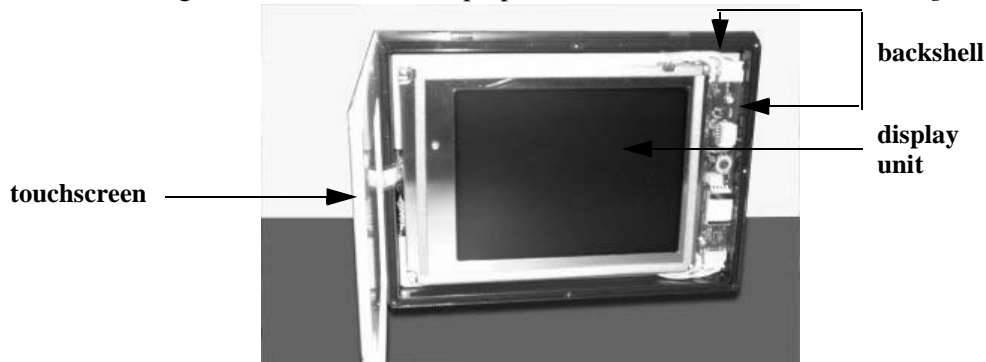


Figure 2 Positioning the PowerStation

Removing the Display Unit

To remove the old display unit, complete the following steps:

1. Disconnect the backlight cables from the inverter, as shown in *Figure 3*.

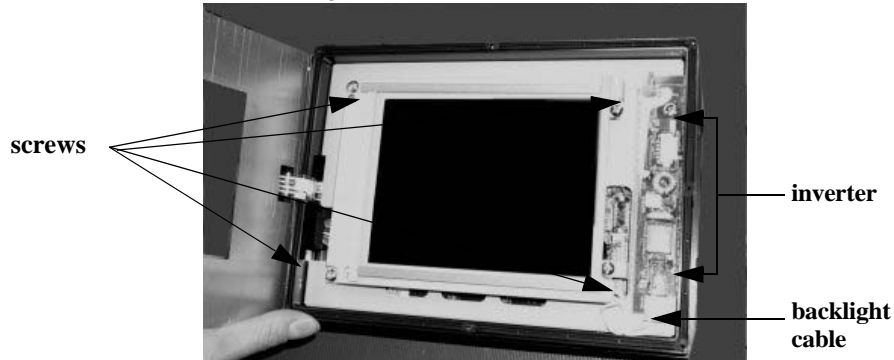


Figure 3 Disconnecting the Backlight Cables

2. Remove the four screws that hold the display unit in place. See *Figure 3*.
3. Swing the display unit outward to reach the video cable located behind the display.
4. Disconnect the video cable shown in *Figure 4*.



Figure 4 Disconnecting the Video Cable

The display unit can now be freely lifted out of the PowerStation.

Installing the New Display Unit

To install the new display unit, complete the following steps:

1. Re-connect the video cable to the new display unit.
2. Connect the backlight cables of the new display unit to the inverter.
You can more easily place the backlight cables into position using needle-nosed pliers.
3. Screw the display unit into place using the four screws you previously removed.

4. Gently tuck the wires of the backlight cables into the holes shown in *Figure 5*.

gently tuck in
wires here

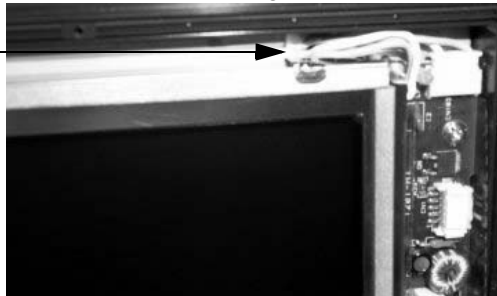


Figure 5 Securing the Backlight Cable

Reassembling the Unit

To reassemble the unit, 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. Ensure that the rubber gasket is tightly fitted along the rim of the unit. See *Figure 6* below.



Figure 6 Securing the Rubber Gasket

2. Replace the touchscreen on top of the display unit.
3. Secure the touchscreen to the display unit using the eight screws you previously removed.
4. Snap the cover back onto the unit.

This completes the installation of the new display 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 your *P1 Pentium PowerStation User Guide*.