Replacing the PanelMate Power Series 1500 Grayscale LCD, Models 1550x/1555x, and the PanelMate Power Pro 1700 Grayscale LCD, Models 1755x Backlight Assembly

Introduction
The Backlight Replacement Kit provides a replacement backlight for the PanelMate Power Series 1500 Grayscale LCD, models 1550x/1555x, and the PanelMate Power Pro 1700 Grayscale LCD, models 1755x. This kit is shipped with a backlight, a disposable grounding wrist strap, and this instruction sheet.

Caution
Electrostatic Discharge (ESD) can damage static-sensitive electronic components. You should perform these procedures only at an ESD workstation.

If an ESD workstation is not available, you can provide some protection by wearing an anti-static wrist strap and attaching it to a metal part of the system chassis.

Replacing the Backlight
The replacement backlight for the PanelMate Power Series 1500 Grayscale LCD, models 1550x/1555x, and the PanelMate Power Pro 1700 Grayscale LCD, models 1755x, is packaged and sold separately from the PanelMate unit.

To install the backlight, follow these steps:
1. Disconnect the power source cable and any other cables from the PanelMate unit. If a high-speed interface module is attached, remove the module.
2. Remove the cover from the electronics module by unscrewing the screws holding the cover on.
3. Remove the circuit board by removing the standoffs, and the screws holding the circuit board to the display plate assembly.
4. Disconnect the backlight cable from the inverter. If necessary, you may have to remove the inverter by removing the screws connecting the inverter to the display plate.
   Note: In newer models, a standoff had been placed next to the backlight cable connector to prevent it from disconnecting from the inverter. The inverter has to be removed in order to disconnect the backlight cable.
5. Remove the standoffs on the display plate to release it from the front panel.
6. Remove the display module from the display plate by unscrewing the screws at the corners, and pulling the backlight cable through the cutout in the display plate.
7. Remove the video cable from the display module.
8. With the display module [1] facing up, remove the backlight assembly cover [2] by unscrewing the three small screws [3]. See Figure 1.
9. Holding the reflective paper back, gently and carefully lift the backlight out of the display.
10. Holding the reflective paper back, gently and carefully place the new backlight cartridge into the backlight assembly, and reattach the cover and the three small screws. Make sure the backlight cable is not crimped when you reattach the screws.

   **Caution** The backlight cartridge is very fragile. Do not bend the backlight, but replace it by keeping the light perfectly straight.

11. Reattach the video cable to the display module.

12. Reattach the display module to the display plate, replacing the screws, and making sure that you push the backlight cable through the cutout in the display plate.

13. Reattach the display assembly to the front panel, replacing the standoffs.

14. Reconnect the backlight cable to the inverter, and if necessary, reattach the inverter to the display plate.

15. Reattach the circuit board, screwing on the screws and the standoffs.

16. Reinstall the electronics module cover.

17. If used, reattach the high-speed interface module.

18. Connect the power source cable and any other cables.