

Date: 15 August 2005

Backlight Inverter Diode

The FET backlight driver may be damaged when the LCD backlight inverter is switched off. Adding a catch diode across the inverter input protects the FET driver from the transient fly-back voltages and prevents driver damage.

This Tech note applies to all Playback and Programmer PCBs in consoles with serial numbers in the range D04531 to L04680.

Tools required:

- Soldering iron & solder;
- 2.5mm hexagonal key.

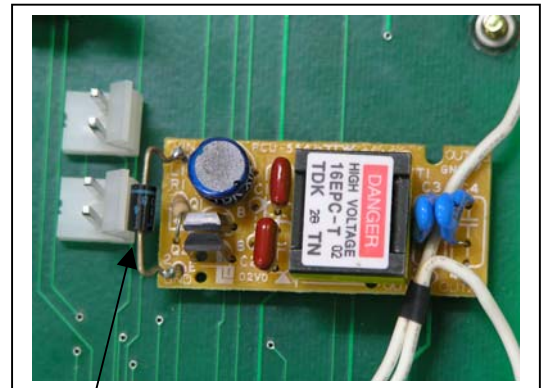
Parts required:

- One (1) 1N4004 diode per panel.

Procedure

1. Power down the console and disconnect the mains supply.
2. Using the hex key remove the front panel button head hex M4 screws and flat washers.
3. Gently lift the front of the panel and rotate upwards, pivoting around the rear edge.
4. Unplug the flatcable and power cable.
5. Disconnect the chassis earth wire.
6. Lift the panel assembly clear of the console and place face down.
7. Install the diode as shown in the photograph.

Reassembly is the reverse of the above procedure. Ensure all connectors are mated correctly and secure.



Diode soldered to inverter supply terminals