

Replacing a PCI Digitizer Card in a Telepresenter M3/M3S2

Tips for a successful field repair

This technical note discusses the procedure for field replacement of the NCast Digitizer PCI card in a Telepresenter M3 or Telepresenter M3 Series II.

Warning!!!

Static electricity discharge can ruin this equipment. Prior to handling the circuit board or opening the chassis make sure your grounding clip is on your wrist (if you have one) or that you have grounded your hands and body by touching a grounded metallic surface such as a pipe or other grounded electrical equipment. If you need to leave your workbench for any reason during the repair, be sure to re-ground your hands before proceeding again. Walking across the room to retrieve a tool or answer your cell phone can possibly generate enough static to cause damage.

Warning!!!

Disconnect the power cord from the unit prior to attempting any repairs inside the box.

Please follow these steps to replace the PCI card:

1. Remove the four side screws holding the top cover in place. Gently slide the cover backwards (away from the front of the unit) and lift off.
2. Note the placement of the white cable-tie holding the PCI card in place. Cut the cable-tie and discard.
3. Note that there is an S-Video connector cable at connector J1 on the underside of the card. As you extract the card this cable must be unplugged.
4. Note how the PCI card bracket is mounted in the chassis. From the side of the unit unscrew the screw holding the PCI card to the chassis. Try to not drop the screw onto the motherboard or into the chassis.
5. Holding the PCI card by the edges (trying to avoid any contact with the surface-mount components on the card) gently pull the card straight out of its connector.
6. As you lift the card out of the chassis, note the positioning of the S-Video connector cable and unplug it from the card. Avoid pulling on the wires. Place the card in the static protective envelope.
7. Holding the replacement card by the edges, reconnect the S-Video connector cable to connector J1 and re-insert the card into its mounting connector. Check that the PCI bracket is correctly placed. Make sure the PCI card is fully seated in the connector and positioned straight and true and not angled in the mount. Replace the hold-down screw.
8. Replace the cable-tie with a new one. Avoid unseating the card while tightening the tie.
9. Replace the cover on the unit. Check that the cover is properly seated and re-engage the four hold-down screws.