

SAFETY – IMPLEMENTED DURING NORMAL COURSE
OF PROVIDING SUPPORT

5DX-77-S

S E R V I C E N O T E

Supersedes:
[NONE]

5DX Series I, II, 2L, 3 and 5000 Systems

Serial Numbers: USxxxxx100 / USxxxxx910

POSSIBLE ELECTRICAL SHOCK HAZARD

WARNING

Partially exposed power supply terminal strip may result in accidental contact with hazardous AC voltages inside the 5DX electronics cabinet.

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Qty.
N7200-68707	Laser Supply AC Terminal Cover Field Retrofit Kit	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
SAFETY			
ACTION CATEGORY:	AGREEABLE TIME	STANDARDS: LABOR: 1.0 Hours	
LOCATION CATEGORY:	ON-SITE	SERVICE INVENTORY: SEE TEXT	USED PARTS: SEE TEXT
AVAILABILITY:	End of Support		
AUTHOR: Guy Sittler PRODUCT LINE: 80 ADDITIONAL INFORMATION: The N7200-68707 is orderable through SPD (Service Parts Delivery) at 1-800-816-8650. Reference the service note number in the activity description field of the SR.			

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Situation:

For the affected systems within the serial number range referenced above, service personnel could potentially come in contact with hazardous AC voltages inside the 5DX electronics cabinet due to an inadequately covered terminal strip.

Solution/Action:

Install service kit N7200-68707 that eliminates the hazardous situation by placing a cover over the partially exposed connections on the terminal strip.

Note:

New laser assemblies will have “Heat Shrink” covering the AC Terminal strip. See photo below. These lasers do not need this Service Note performed on them.



Installation instructions continue on next page.

Installation instructions for N7200-68707 service kit:

Tools Required: Torx T20 driver

Shut down the System

- 1) Perform the 5DX System Shutdown procedure found in the System Administration Guide.

WARNING:

High Voltages are present. Follow the “Lock-Out / Tag-Out” procedure found in the “System Administration Guide”.

Install the service kit

Use the following section for Series I Systems; for Series II, 2L, 3, and 5000, skip to page 5.

- 1) Open the door that allows access to rear of the **Electronics Cabinet**.
- 2) Find the laser power supplies inside the rack to your left. See photo below.

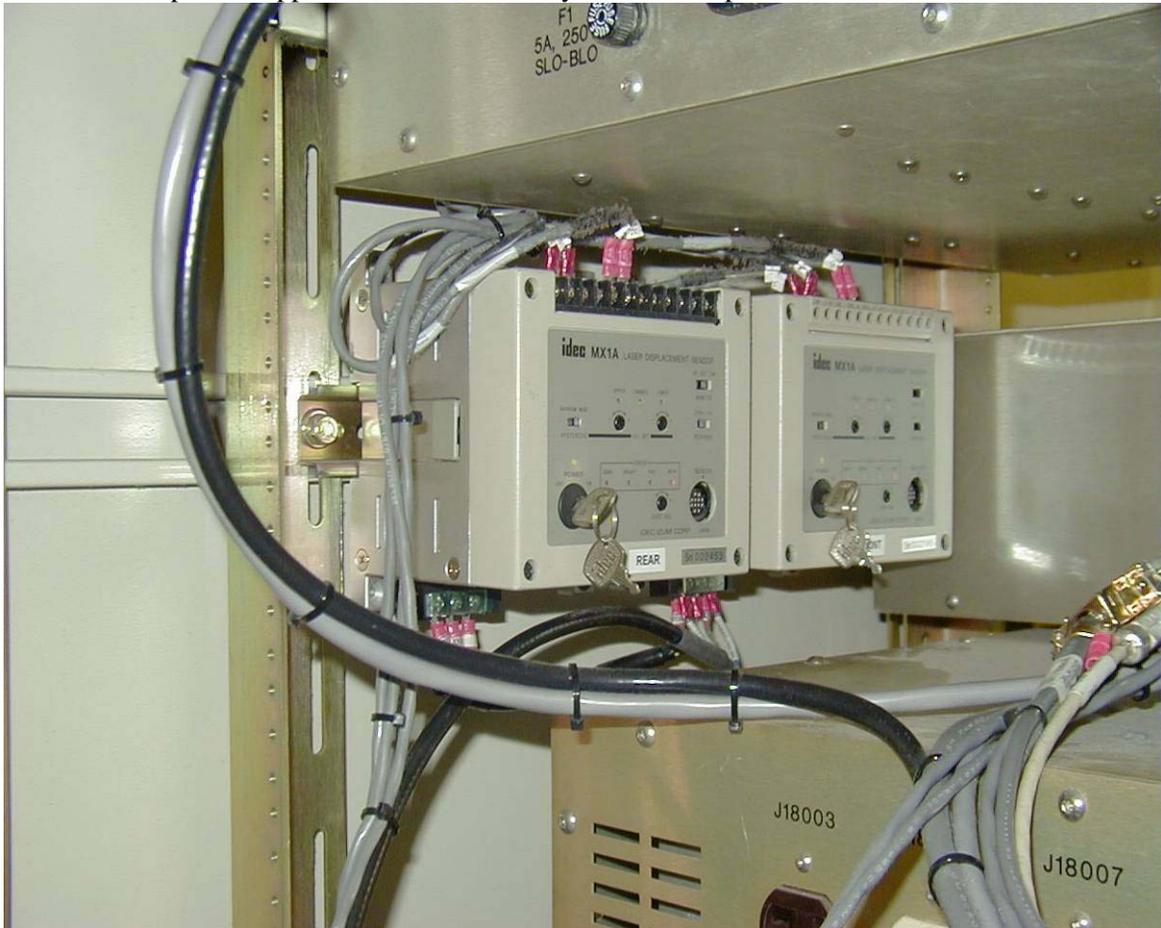


Figure 1: Laser power supplies in a Series I system

- 3) The laser supplies are mounted on a DIN rail. Removing them from the rail may allow easier access to the terminals. For removal, operate the slide latch on the bottom of the supply.
- 4) Retrieve the N7200-04125 AC terminal covers, the 0515-2577 M4x50mm screws, the 0535-0006 nuts, and the 2190-0586 washers from the N7200-68707 service kit.
- 5) Note the four unused mounting tabs on the laser supply. The two lower tabs will be used to mount the cover.

- 6) Examine the N7200-04125 AC terminal cover and note the proper orientation of the cover relative to the terminals on the laser supply. Slip the AC mains cord through the slot on the cover. Refer to the following photo of the installed covers.



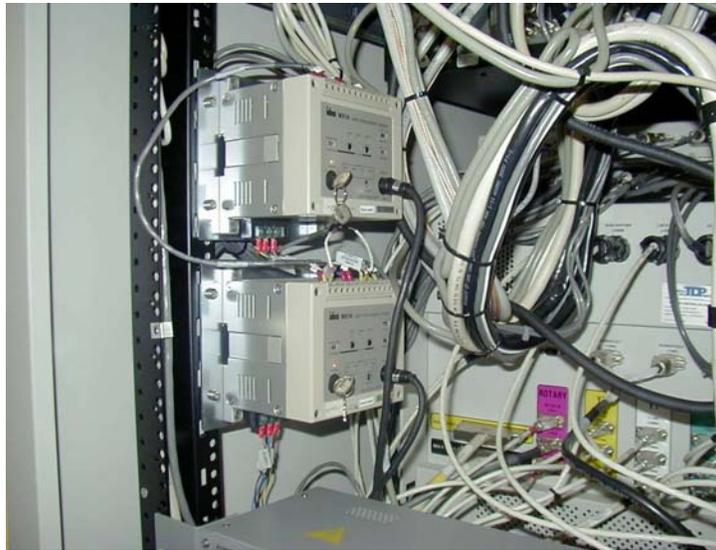
Figure 2: Laser supplies with N7200-04125 covers installed

- 7) Position the AC terminal cover over the terminals, and place the above screws through the holes in the cover. Place the nuts and washers on the back of the screws. Tighten the screws.
- 8) If the 5DX system is equipped with two lasers, repeat steps 5 through 7 on the second laser supply. Since a jumper is used to connect the AC from the second supply to the first, it may be easier to remove both cords from the terminal strip on the second supply and replace after routing through the cover.

Continue procedure with the section labeled “Start up the System”

For Series II, 2L, 3 and 5000 Systems:

- 1) Open the door that allows access to rear of the **Electronics Cabinet**.
- 2) Find the laser power supplies inside the rack. See photos that follow.

**Figure 3A: Laser supplies in Series II and 2L****Figure 4B: Laser supplies in Series 3 and 5000**

- 3) If the system has two laser supplies, the lower laser supply must be shifted down in order to provide clearance for the new cover on the upper laser supply. Otherwise, this step may be omitted.
 - a. Locate the 0590-1366 10-32 Nut with u-type clip retainer, quantity two, in the N7200-68707 service kit.
 - b. Remove and save the two screws that hold the lower laser supply mounting plate to the rack channel, and then remove the supply and mounting plate as a unit. Support the supply so as not to place excessive strain on the attached wiring.
 - c. Install two nuts with u-type clips in the holes immediately below each of the existing nuts for the mounting plate screws removed in step 4.
 - d. Remount the lower laser supply and mounting plate to the rack, using the two screws removed in step 3a in the new lower nut positions from step 3b.

- 4) Retrieve the N7200-04125 AC terminal covers and the 0515-2577 M4x50mm screws from the N7200-68707 service kit.
- 5) Note the four screws used to mount the laser supply to the mounting plate. Remove the two lower screws of these four.
- 6) Examine the N7200-04125 AC terminal cover and note the proper orientation of the cover relative to the terminals on the laser supply. Slip the AC mains cord through the slot on the cover. Refer to the following photos of the installed cover.



Figure 5A: Laser supply with N7200-04125 cover installed on Series II/2L



Figure 6B: Laser supply with N7200-04125 cover installed on Series 3/5000

- 7) Position the AC terminal cover over the terminals, and place the above screws through the holes in the cover. Tighten the screws.
- 8) If the 5DX system is equipped with two lasers, repeat steps 5 through 7 on the second laser supply.

Start up the System

- 1) Remove any “Lock Out / Tag Out” devices before proceeding.
- 2) Perform the 5DX System Startup procedure found in the System Administration Guide
- 3) Close the Electronics cabinet access doors.

Once you have completed the installation and verification of the Surge Suppressor Kit, fill out and affix the Service Note label (Part Number N7200-84366) to the 5DX System. The following photos show the location of the label area on the 5DX cabinet. Refer to next page.

Note: The N7200-84366 label located to the lower right of the existing labels in the photo below.

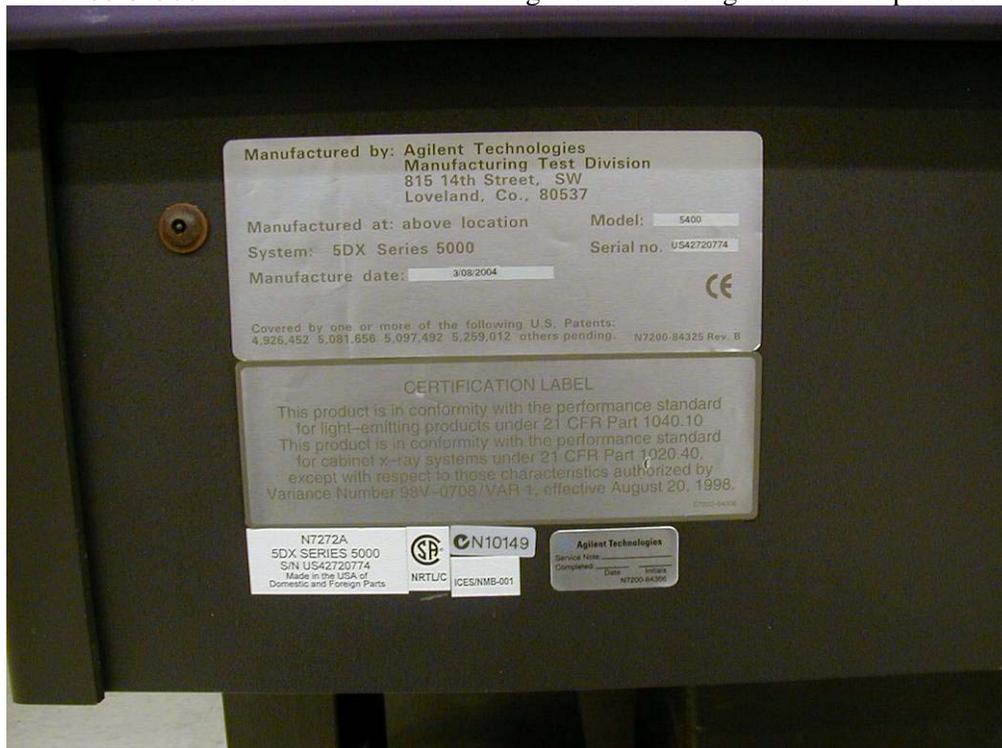


Figure 5: Detail of N7200-84366 service note label installed at lower right of label area

After completion of this Service Note send an email with the Service Note number and 5DX Serial number to: MTBUSERVICENOTES@agilent.com