

SAFETY – IMPLEMENTED DURING NORMAL COURSE  
OF PROVIDING SUPPORT

**5DX-83A-S**

**S E R V I C E N O T E**

Supersedes:  
[5DX-83-S]

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

Serial Numbers: All

**POSSIBLE LASER EMISSION HAZARD**

**WARNING**

**Lasers are not disabled when 5DX access panels are opened**

**To Be Performed By: Agilent-Qualified Personnel**

**Parts Required:**

P/N	Description	Qty.
N7200-84366	Service Note Label	1

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:		
<b>SAFETY</b>		
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 N7200-84366 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 (Service Request)		

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**Situation:**

5DX Systems with two lasers installed will not function properly if the front laser to rear laser interlock jumper cable (E7200-61706) is mis-wired. The jumper wire being mis-wired enables the lasers to stay on all the time even if an access panel interlock is opened.

**Note:** This situation only occurs on 5DX systems with two lasers.

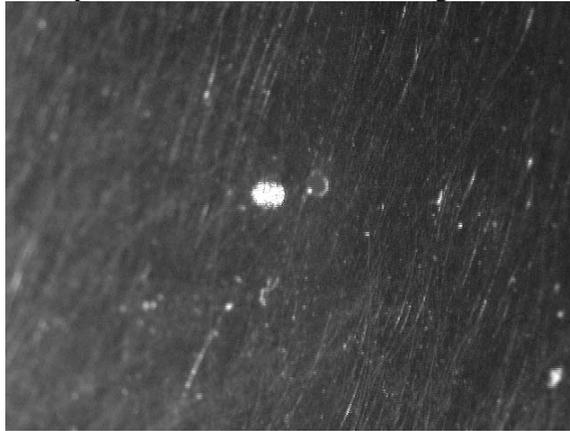
**Solution/Action:**

- 1) Run Automatic startup.
- 2) Load the C & A Panel
- 3) From a Command prompt in the master sub-directory enter the following:

```
xrayoff  
lotest -rob23,0;ui1;  
gotocal - hole -laser1
```

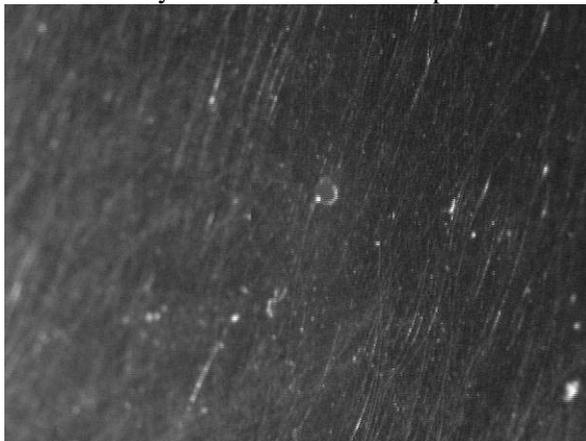
**Note:** The stage position to view the Front Laser Spot is approximately X=15,300 Y=3,800 Z=1,500

- 4) Verify that the Front Laser Spot is on and visible in the Image window see Picture 1.



Picture 1

- 5) Open a 5DX access panel and verify that the Front Laser Spot turns off see Picture 2.



Picture 2

- 6) This signifies that the Front Laser did turn off and is wired properly.

- 7) If the Front Laser Spot remains on, the laser did not turn off. This means that the E7200-61706 cable is mis-wired. Continue with step 15.
- 8) Close the 5DX access panel.
- 9) Run Automatic startup.
- 10) From a Command prompt in the master sub-directory enter the following:

```
xrayoff
lotest -rob23,0;ui1;
gotocal - hole -laser2
```

**Note:** The stage position to view the Rear Laser Spot is approximately X=7,300 Y=3,800 Z=1,500

- 11) Verify that the Rear Laser Spot is on and visible in the Image window. See Picture 1.
- 12) Open a 5DX access panel and verify that the Rear Laser Spot turns off. See Picture 2.
- 13) This signifies that the Rear Laser did turn off and is wired properly. If so, continue with step 19.

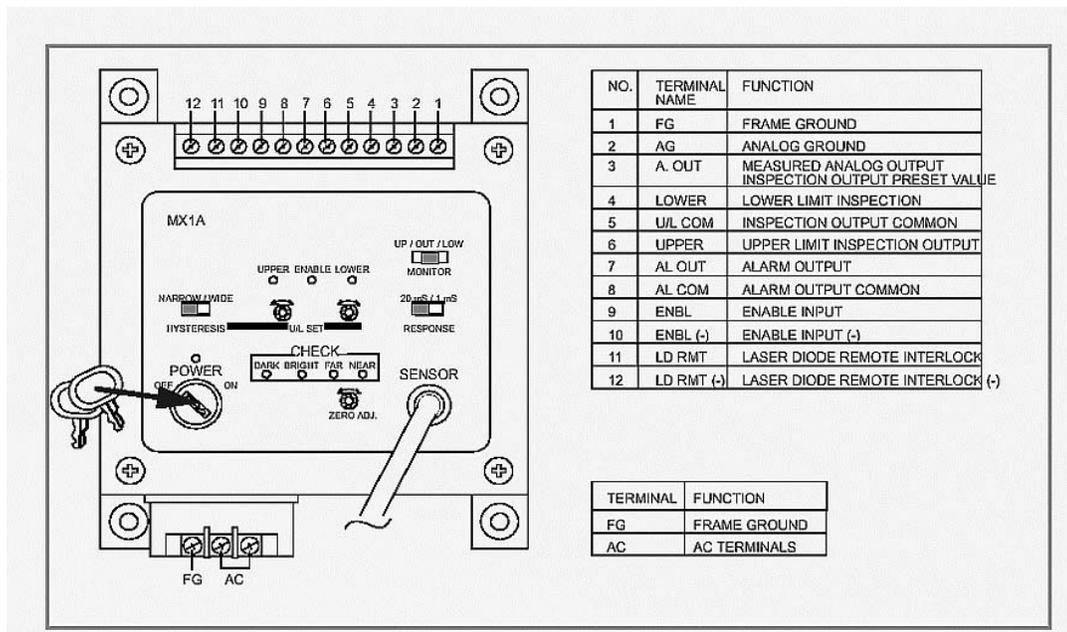
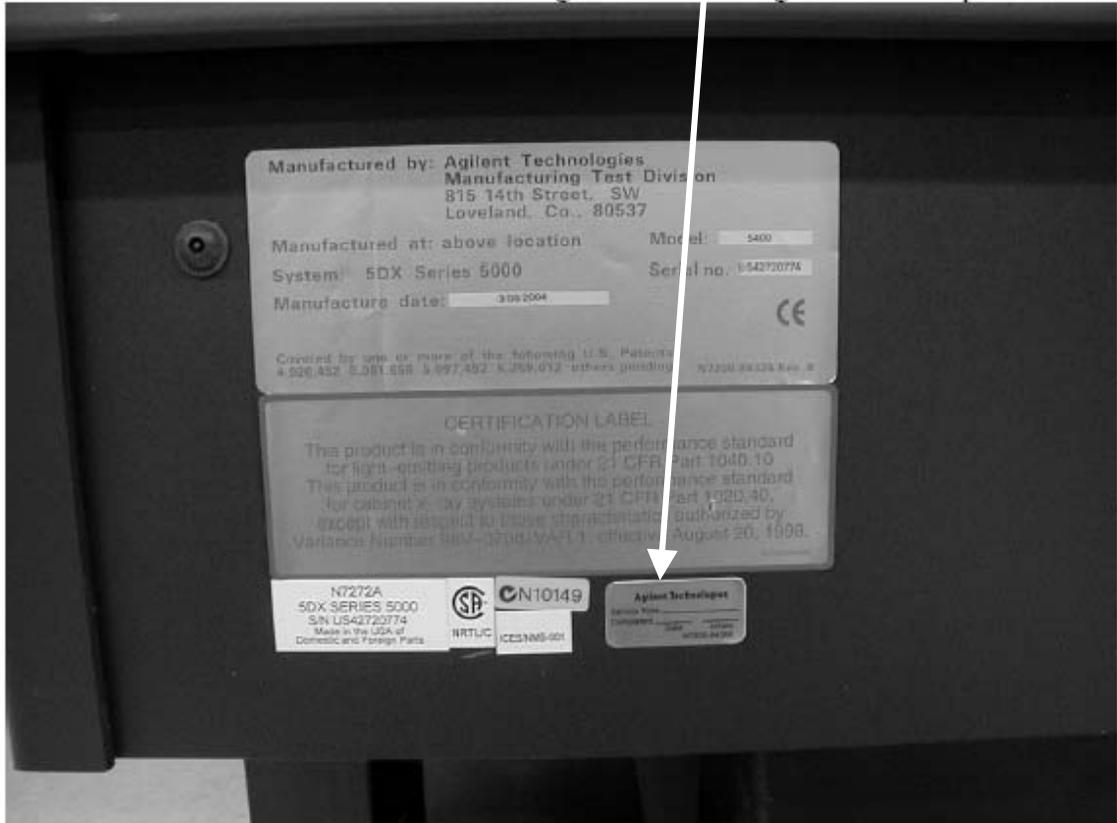


Figure 1

- 14) If either Laser Spot remained on, the laser did not turn off. This means that the E7200-61706 cable is mis-wired.
- 15) Turn off the Laser Power units by turning both keys to the off position.
- 16) Reverse the LD RMT(-) and LD RMT wires on one end of the E7200-61706 cable. See Figure 1.
- 17) Turn on the Laser Power units by turning both keys to the on position.
- 18) Continue with step 1.
- 19) Close the 5DX access panel.
- 20) Run Automatic Startup.
- 21) Unload C & A Panel.

22) Upon completion fill out and install the Service Note label (Part Number N7200-84366) to the 5DX label area.

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



**Figure 2: N7200-84366 Service Note label installed at lower right of label area.**