MODIFICATION AVAILABLE - SERVICE/RELIABILITY EHNANCEMENT CHARGEABLE TO CONTRACT IF THERE IS ONE.

5DX - 54

S E R V I C E N O T E

Agilent 5DX Systems
Series 3 Service/Reliability Enhancement

Serial Numbers: USXXXX500/USXXXX555

Adjust 48-Volt Power Supply to 55 Volts

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

 P/N
 Description
 Qty.

 N7200-84355
 55-volt Label
 1

Tools Required:

Insulated Standard Screwdriver

Voltmeter

Situation:

Some Series 3 5DX systems have experienced intermittent Z-axis stoppages, one possible problem could be that the Z-axis stepper motors need more power. Series 2L systems used 65 volts to power the stepper motors while the affected Series 3 systems only use 48 volts.

Note: Two other possible causes for Z-axis stoppages could be a bad Z-axis stepper motor or a loose mount causing alignment problems.

Solution/Action:

Before the next scheduled maintenance visit, order the 55-volt Label (PN N7200-84355) and adjust the 48-volt power supply to 55 volts while onsite, according to the attached procedure. The CE should charge his labor and material costs to a Service Contract where applicable. Attach label N7200-84355 indicating that the power supply is now set at 55 volts.

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION AVAILABLE		
ACTION CATEGORY:	AGREEABLE TIME	[[]] PERFORMANCE ENHANCEMENT X SERVICE / RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	[[]] CUSTOMER INSTALLABLE X ON-SITE [[]] SERVICE CENTER	AVAILABLE UNTIL: End of Support
AUTHOR: BRG	PRODUCT LINE: 5DX	
ADDITIONAL INFORMATION:		

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Procedure for Adjusting the 48-Volt Power Supply to 55 Volts.

- 1) Locate the Low Voltage Power Supply (N7200-66220).
 - It is located in the Electronics Bay on the second shelf from the top. See Figure 1.
 - The supply can be adjusted from the back without moving it.
 - This procedure is for the +48 volt supply.



Figure 1: Low Voltage Power Supply

- 2) The Low Voltage Supply has three voltages in three different modules.
 - Looking from the back of the Electronics Bay, the +48 volt supply module is the second module in from the right. See Figure 2.

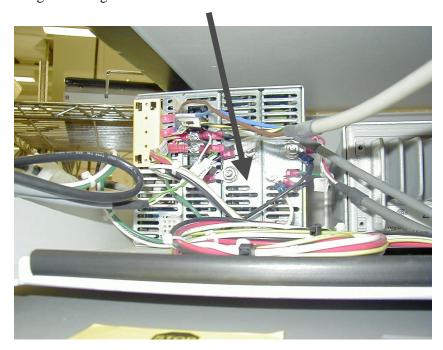


Figure 2: Locating the +48 Volt Power Supply Module

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3) With the 5DX System powered up, connect a voltmeter to the two screws on the back of the +48 volt supply.

- The positive lead is the top stud. This is where the right arrow is pointing in Figure 3. In a color picture the voltmeter connector is red.
- Use an insulated flat blade screwdriver to adjust top potentiometer. The insulated screwdriver protects against shorting to the grounded metal enclosure. Note the left arrow in Figure 3.



Figure 3: Locating the Potentiometer

4) Adjust the potentiometer clockwise to increase the voltage to +55 Volts according to the connected voltmeter.

Note: There are three potentiometers. Adjust only the top one. See Figure 4.

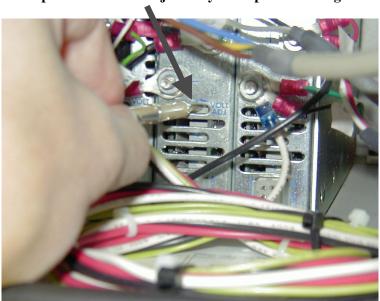


Figure 4: Adjusting the Potentiometer

5) Attach the 55-Volt label (N7200-84355) to the power supply to warn of a shock hazard.