

5DX-84A

S E R V I C E N O T E

Supersedes:
5DX-84

5DX Series 3 and 5000 Systems

Serial Numbers: USxxxxx500 - SGxxxx1003

Z-Axis Reliability Improvement

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

P/N	Description	Qty.
N7210-68705	Z-Axis Shoulder Bolt Kit	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION AVAILABLE		
ACTION CATEGORY:	AGREEABLE TIME	SERVICE / RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	ON-SITE	AVAILABLE UNTIL: End of Support
AUTHOR: Guy Sittler PRODUCT LINE: 80		
ADDITIONAL INFORMATION: The N7210-68705 is orderable through SPD (Service Parts Delivery) at 1-800-816-8650.		
Time and material should be billed to the Customers Support Contract. Customers operating without a Support Contract are responsible for the cost of this Serviceability/Reliability Enhancement.		

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Situation:

Currently the stage rails are held in place using standard cap screws. In certain abnormal circumstances (during shipping or system use) the Z-axis linear rails can inadvertently move from their original location which causes side loading on the Z axis motors. This can cause the Z-axis motors to fail and can cause XY alignment issues between fields of view.

Solution/Action:

This service note increases the reliability of the Z-axis motors and corrects any alignment issues caused by misaligned linear rails. This is done by replacing the cap screws with shoulder bolts causing the stage rails to become extremely rigid from end to end, which prevents side loading or misalignment.

The Z-Axis Shoulder Bolt Kit (N7210-68705) contains the installation procedure.