

x6000-03

S E R V I C E N O T E

Supersedes:
NONE

Medalist x6000 Systems

Serial Numbers: N7280A = ALL

The Medalist x6000 can be damaged by foreign objects falling inside of it. The damage can affect the performance of the system and can lead to costly down time and repairs which are not covered by Agilent service contracts.

Parts Required:

P/N	Description	Qty.
NONE		

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:	
INFORMATION ONLY	
AUTHOR: JPP	PRODUCT LINE: 80
ADDITIONAL INFORMATION:	

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Situation:

The x6000 can be damaged by foreign objects falling inside of it (examples are screws, fixtures/carriers and PCBAs). The damage can affect the performance of the system and can lead to costly down time and repairs which are not covered by Agilent service contracts.

Please refer to your Agilent service terms document for the most up to date information on service terms. For example, Agilent does not cover defects resulting from improper or inadequate maintenance, installation, repair or calibration performed by a customer or an unauthorized third party; a customer or third party supplied hardware or software, interfacing or supplies; unauthorized modification; improper use or operation outside of the specifications for the product; abuse, negligence, accident, loss or damage in transit; or improper site preparation.

In addition to the above reminder this service note is to highlight recent damage seen on the Field Stop Assembly (FSA) due to foreign objects falling on it. A damaged FSA will stop the imaging system from functioning properly resulting in CD&A failures relating to the camera and grayscale measurements because the x-ray beam travelling to the cameras has been blocked.

The blocked x-ray beam is visible as black horizontal lines on the top or bottom of the camera or can appear as a totally black camera. *Note that the deflection coil adjustment procedure will show these same symptoms so the previous statement is referring to when the deflection coil has been properly adjusted, all cameras are working, and there is no damage to the FSA.*

Solution/Action:

Customers need to take precautions in the design of fixtures/carriers or other media to ensure that foreign objects (examples are screws, fixtures/carriers and PCBAs) do not fall into the machine. If anything should fall into the machine it should be cleared from the machine before continuing to use or operate the machine, i.e. no board should be in the machine before homing rails or initializing the system/software. These objects can jam between the FSA and the moving parts of the stage causing damage to the FSA, which can take approximately 4 hours to replace depending on the damage. The following pictures will help to illustrate what the damage to the FSA might look like.

Parts sitting on the FSA (N7280-20205) or FSA side skirts:



Damaged FSA mounting screws (2 items of 0515-5007 found in N7280-88787 “Field Stop Assembly screws kit” – contains 6 screws), damaged tooling pins not shown:



Damaged FSAs caused by a part and PCBA caught between the stage and the FSA:



FSA has been pushed to the right in the picture (rear of machine), notice the gap between the skirt and the FSA:



Black horizontal lines observed on some of the cameras (camera 3 is mostly blocked in this picture):

