

S E R V I C E N O T E

SUPERSEDES: None

71612A 12 Gb/s HSBER System**70843 Serial Numbers:** 3331U00135 / 3501U00163

This service note describes modifications to two of the 71612A 12 Gb/s HSBER system components. The units affected are the 70004A and the 70843A.

To Be Performed By: Agilent-Qualified Personnel**Parts Required:** (70843A MS-IB Modification Kit):

Description	Qty
70843-69011 A11 Processor Assembly	1
Roll Copper Tape	1
Handle Set 5062-3991	1
Modification Label	1

Situation:

These modifications fix an MS-IB problem which has been observed on several systems and manifests itself by any of the symptoms below:

1. Updates to the instrument display on the 70004A can seem slow.
2. Updates to the display never occur. Keystrokes are not implemented and the display seems to freeze - the instrument stops working.

Continued

DATE: July 1995

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION AVAILABLE		
ACTION CATEGORY:	AGREEABLE TIME	<input type="checkbox"/> PERFORMANCE ENHANCEMENT <input checked="" type="checkbox"/> SERVICE/RELIABILITY ENHANCEMENT
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	AVAILABLE UNTIL: Product's Support Life
AUTHOR: PC	ENTITY: 1400	ADDITIONAL INFORMATION:

Power cycling the system may solve the above problems in the short term. For a permanent solution to the above serial numbers, implement the following modifications:

NOTE

The procedures below should be performed in an appropriately equipped ESD area.

1. Modify the 70004A display as explained in Service Note 70004A-14 from SRSD.
2. Modify the 70843A as follows:

70843A Modification

1. Switch off the power and disconnect all cables from the 70843A.
2. Remove the outer cover from the 70843A as follows:

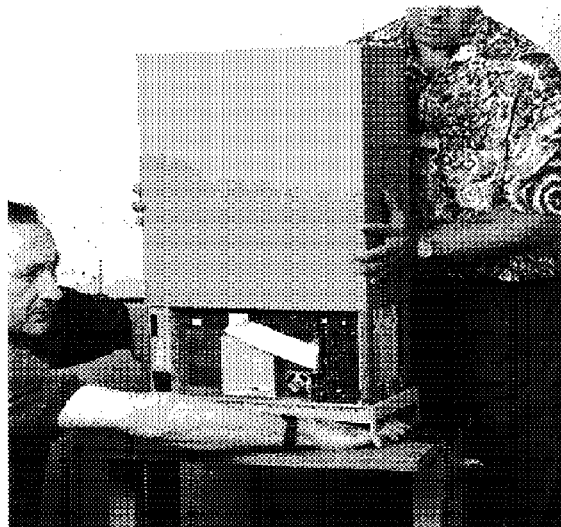
Single Piece Cover

- Install the 70843A front handles (if they are not already installed).
- Remove the 15 screws around the rear of the cover and the 4 rear feet.
- Remove the 3 rear panel fixing screws and remove the rear panel.
- Remove the bottom feet and store the information card and tray in a safe place.

The cover can now be removed as shown in Figure 1. One person should hold down the handles while another person pulls on the sides of the cabinet cover from the rear of the unit.

NOTE

Take care not to trap any cables while removing the cover.



4-Piece Cover

- Remove the top and side screws at the rear of the instrument. The side covers and top cover can be withdrawn to the rear of the instrument.
- 3. The A11 PCA assembly should now be visible at the top rear of the 70843A. Remove this assembly from the 70843A as follows:
 - a. Carefully remove the copper adhesive tape strip which covers the join between the A11 connector panel and the 70843A sub-panel. Care should be taken when doing this as the copper strip can cause personal injury.
 - b. Remove the A11 assembly from the unit by loosening the two slotted screws one on each side of the A11 connector panel, ONE TURN AT A TIME ALTERNATIVELY. Withdraw the A11 assembly when these screws are fully loosened.
 - c. Remove U2 from the A11 assembly (located at the top right of the assembly, relative to the connector panel) noting the orientation of U2.
 - d. Install U2 in the replacement A11 assembly in its correct position and with the correct orientation.
 - e. Repeat c and d above for U3.
 - f. Install the replacement A11 assembly into the 70843a using the reverse of the procedure in step b above.
 - g. Apply a strip of the adhesive copper tape to cover the FULL LENGTH of the join between the bottom of the A11 connector panel and the 70843A rear sub-panel. Note this strip will need to be shaped/cut with scissors to accommodate the GPIB connector on the A11 assembly.
 - h. Fit the rear panel cover.
 - i. Fit the 70843a cover using the reverse procedure given in step a. above. Note in the case of the single piece cover that it may be useful to use a small flat blade screwdriver or similar tool to aid the front of the cover into it's recess at the front of the instrument. Take care not to force the cover home as this can damage the EMC protection strip at the recess.

NOTE

Care must be exercised to prevent damage to ribbon cables.

- j. Apply the modification label to the rear panel of the 70843A.
- k. Power on the system and press the DISPLAY key on the 70004A followed by the REPORT ERRORS softkey. There should be no errors reported.

This completes the modification and the system is now ready for use.