

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

Supersedes:

NONE

**HP MODEL 8568A SPECTRUM ANALYZER****IF Section Serial Prefix 1928A and Below****MODIFICATION TO IMPROVE MAGNETIC SUSCEPTIBILITY OF DISPLAY**

This Service Note documents adding a Mu-Metal shield over the CRT in older IF sections. The effect is to decrease the magnetic susceptibility which appears as random movement of the trace on the CRT. This may occur when an instrument which radiates strong magnetic fields (such as a calculator, sweeper, etc.) is placed near the CRT of the 8568A.

**PROCEDURE:**

1. Unplug the unit from the mains.
2. Remove the CRT per Figure 8-8 in the Operating and Service Manual, page 8-25, Volume 3. Note in step 5 the high voltage connector is separated by inserting a thin bladed screw driver into the slot and twisting.
3. Remove the shield from the neck of the CRT being careful not to damage the pins on both the top and bottom of the CRT.
4. Place the Mu-Metal shield over the CRT. It must be positioned flush with the front of the CRT. It must also be snug, which may require removing the tape around the tube and replacing it with just the shock mount. The shock mount is installed with the two large ridges evenly spaced on the bottom. The flat edge should face the front of the CRT.
5. Reinstall the neck cover. Again be careful not to damage the pins on the top and bottom of the CRT. The neck cover fits under the CRT Mu-Metal shield. Two screws secure the shield and neck cover together. These two screws also hold a deflection coil in place. If the position of this coil changes it will affect both trace align and trace orthogonality. Small trace alignments may be adjusted through the front panel. The ortho adjustment is on A1A2. See Operating and Service Manual, Volume 2, Section V, paragraph 5-17.
6. Remove the side grounding strap as seen in Figure 8-8, view C, Item #19. This should be done by bending the clip with a pair of pliers close to the fastened end until it breaks.

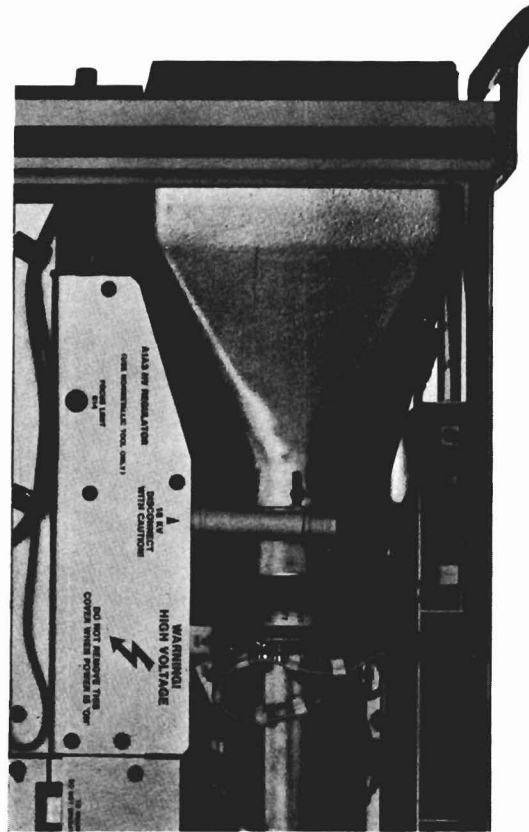
RWO/eg/WN

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7. Insert the CRT part way into the mainframe and fit the front panel Bezel onto the shield. The fit is quite tight but the CRT and shield must push completely into the Bezel.
8. Finish the installation according to the instructions in the Operating and Service Manual, Figures 8-7 and 8-8. See Figure 1.
9. Verify that the trace align and trace orthogonality are acceptable. If not, make adjustments as outlined under step 5 of this procedure.



*Figure 1.*