S E R V I C E   N O T E

HP MODEL 8501A STORAGE-NORMALIZER

All Serials

ADJUSTMENT PROCEDURE FOR COMPATABILITY
WITH THE MODEL 8754A NETWORK ANALYZER

For all HP Model 8501A Storage-Normalizers internal adjustments need to be made for compatibility with the HP Model 8754A Network Analyzer. These adjustments should only be made if the 8501A is intended to operate only with an 8754A. Following adjustment the 8501A is not compatible with the HP Model 8505A Network Analyzer. In the future, should the 8501A be required to operate with the 8505A, refer to Section V, Adjustments, of the 8501A Operating and Service Manual (HP Part Number 08501-90022).

The adjustment procedure for compatibility with the 8754A is as follows:

1. Connect the 8501A to the 8754A via the Normalizer Interconnect Cable (HP Part Number 08501-60067).

2. Set the controls on the 8501A and 8754A as follows:

8501A

STORAGE	OFF
MAGNIFIER	X1
CHANNEL 1 INPUT	ON
CHANNEL 1 AVERAGING	OFF
CHANNEL 2 INPUT	ON
CHANNEL 2 AVERAGING	OFF

8754A

CHANNEL 1	A
CHANNEL 2	OFF
FREQUENCY MHz	FULL
SWEEP	AUTO, FAST

MP/jb/WO   10/80-4514

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MARKERS	OFF
REFERENCE POSITION CH 1	ON (pressed)
REFERENCE POSITION CH 2	ON (pressed)
REFERENCE POSITION CH 1 ⬆⬇	Adjust to place the reference line trace on the center graticule line.
HORIZONTAL POSN and GAIN controls	Adjust to center the reference line trace between the left and right edges of the CRT graticule.

3. On the 8501A, press the STORAGE ON pushbutton. Adjust the rear panel X-OFFSET RECT control to place the left end of the trace on the left edge of CRT graticule.

4. On the 8501A, adjust the rear panel Y-OFFSET CH 1 control to place the trace on the center graticule line.

5. On the 8754A, set the controls as follows:

CHANNEL 1	OFF
CHANNEL 2	B

6. On the 8501A press the STORAGE OFF pushbutton. On the 8754A adjust the REFERENCE POSITION CH 2 ⬆⬇ control to place the trace on the center graticule.

7. On the 8501A press the STORAGE ON pushbutton. Adjust the Y-OFFSET CH 2 control to place the trace on the center graticule line.

8. On the 8501A press the STORAGE OFF pushbutton. Remove the 8501A top cover.

9. On the 8754A set the controls as follows:

FREQUENCY MHz	CENTER
TUNING	Adjust for display reading of 500 MHz
MARKERS	50 MHz
SWEEP WIDTH MHz	50
TUNING FINE	Adjust to place the marker birdie on the center graticule line.

10. On the 8754A, set the SWEEP WIDTH MHz control to 500. Adjust the CAL control countercloclwise such that 5 marker birdies are placed on the 2nd, 4th, 6th, 8th, and 10th graticule lines (the left edge of the graticule is the 1st graticule line).

11. On the 8501A press the STORAGE ON pushbutton, then ERASE. Alternately press STORAGE ON and STORAGE OFF while adjusting the DAC GAIN (A6R3) and RAMP OFF (A6R14) controls (see Figure 1 on facing page) so that the 5 markers appear in the same position horizontally across the CRT between STORAGE OFF and STORAGE ON.
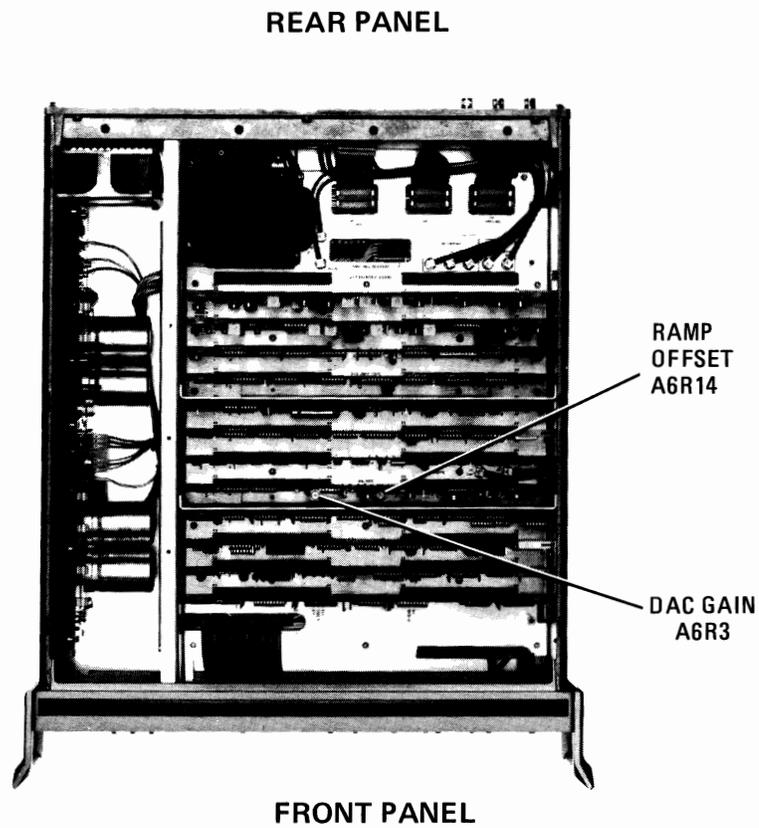
REAR PANEL

FRONT PANEL

Figure 1. Internal Adjustments Locations

12. Attach the label included with this service note towards the rear of the outside of the 8501A top cover. Reinstall the cover on the 8501A.

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