

S E R V I C E N O T E

SUPERSEDES: None

**HP 8568B Spectrum Analyzer
HP 85662A IF Display Section**

Serial Numbers: 85662A IF Display Sections 0000A00000 / 3140A20342

New A4A1 Video Processor**Situation:**

The latest A4A1 Video Processor, HP part number 85662-60241, has replaced the 85662-60122 Video Processor. Although this latest video processor is backward compatible, a new adjustment procedure is required.

The adjustment procedure in the latest Performance Tests and Adjustments manual, HP part number 08568-90105, can be used to adjust both vintages of video processors listed in this note. This latest manual contains many updated procedures, and is necessary for the support of the 8568B Spectrum Analyzer. A copy of this manual ships with each new 8568B instrument.

The early HP 8568B Performance Tests and Adjustments Manual, part number 08568-90051, must be updated before adjustments on the latest Video Processor can be performed.

Continued

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ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:

ENTITY:

ADDITIONAL INFORMATION:

BS

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Solution / Action:

When attempting to order the early video processor, HP part number 85662-60122, you will be instructed to order the Video Processor Retrofit Kit, HP part number 85662-60258. The kit contains the latest video processor assembly and an installation note which outlines the adjustment procedure. This kit is necessary since it is not apparent that the latest video processor cannot be adjusted using an earlier procedure.

Order the latest video processor, HP part number 85662-60241, if you already have a copy of the new video processor adjustment procedure. The latest adjustment procedure is in the HP 8568B Performance Tests and Adjustments manual, HP part number 08568-90105. The installation note in the Video Processor Retrofit Kit also contains the adjustment information, and this service note outlines how to update the early performance tests and adjustments manual.

NOTE:

When replacing the video processor on Option 462 instruments, the 3 MHz bandwidth adjustment potentiometer on A4A9 IF Control board may run out of adjustment range. If this occurs, change the value of factory select resistor A4A9R11 or the value of both A4A9R11 and R87. Consult the 85662A IF Display Section Troubleshooting and Repair manual, HP part number 85662-90085, for component location and factory select resistor ranges.

To update the early HP 8568B Performance Tests and Adjustments manual, HP part number 08568-90051, insert the installation note supplied in the retrofit kit into the manual or make the following corrections:

Under the Adjustments tab, Test 6, page 42, replace steps 7 through 21 with the steps listed below.

7. Set the step attenuator to 0 dB.
8. Key in REFERENCE LEVEL and adjust DATA knob for DVM indication as close to +1.00 +/- 0.001 Vdc as possible. (It may be necessary to slightly adjust the front panel AMPTD CAL control to achieve required tolerance.)
9. Connect DVM to A4A1TP2.
10. Adjust A4A1R14 OS for a DVM indication of 0.000 +/- 0.003 Vdc. See Figure 22 for the location of the adjustment.
11. Connect DVM to A4A1TP3.
12. Set the step attenuator to 120 dB.
13. Adjust A4A1R32 ZERO for a DVM indication of 0.000 Vdc +/- 0.001 Vdc.
14. Set the step attenuator to 0 dB.
15. Adjust A4A1R36 FS for DVM indication of +2.00 +/- 0.001 Vdc.
16. Repeat steps 12 through 15 until no further adjustments are required.