

Supersedes:
8568B-12**HP MODEL 8568B SPECTRUM ANALYZER**

All Serials

**HP MODEL 8568AB RETROFIT KIT
(formerly 8568A+01K)**

All Serials

INSTALLATION PROCEDURE FOR REBUILT A15 CONTROLLER ASSEMBLY

This service note documents the recommended procedure for installation of the Rebuilt A15 Controller Assembly, HP Part Number 85680-60190, into an HP 8568B Spectrum Analyzer.

PROCEDURE:**CAUTION**

This procedure **MUST** be performed at an anti-static workstation to avoid possible electrostatic discharge damage to the A15 Controller Assembly.

1. Turn HP 8568B over to access the bottom of HP 85680B RF Section. Remove power cord, two bottom rear feet, and bottom cover from RF Section.
2. Locate and remove controller cover from RF Section.

CAUTION

Note proper routing of ribbon cables prior to removal of A15 Controller Assembly; ribbon cables can be permanently damaged by improper installation.

CAUTION

Do not place A15 Controller Assembly directly on a metallic surface, as this might permanently discharge lithium battery A15BT1.

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8/87-53/TM



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3. Remove Rebuilt A15 Controller Assembly from protective anti-static packaging and place on anti-static mat. Save packaging for storage of old A15 Controller Assembly.
4. Using colored lift tabs, carefully remove old A15 Controller Assembly from RF Section and store in protective anti-static packaging.
5. Locate A15SW1 near top-center of A15 Controller. Verify that switch A1 (closest to battery) is set open (toggled down towards white dot) to select a logic "1". If A1 is closed, the HP 8568B will not pass its self test at power-up, and both front-panel CHECK LEDs will light.

Five remaining switches, A2 through A6, determine the HP 8568B HP-IB address at power-up. Switch A2 is HP-IB address least-significant bit, and A6 is HP-IB address most-significant bit. With all five switches open (factory setting), special HP-IB address 31 ($1 + 2 + 4 + 8 + 16 = 31$) is selected. In this case, A15 Controller checks memory (CMOS RAM) for the previously-selected HP-IB address setting, and selects default address 18 if none is found.

6. Install rebuilt A15 Controller in RF Section. Be careful not to pinch ribbon cables between edge connectors and PC board.
7. Reconnect power cord to RF Section. (HP 85662A IF/Display Section should still be connected to RF Section with two interconnect cables, and should have its own power cord connected).
8. Perform "Long POP" (power-on pretest) to initialize memory (CMOS RAM) on A15 Controller by jumpering test point A15TP1-8 T3 to test point A15TP1-9 ST (or, on earlier A15 Controllers, by jumpering test point A15TP1-7 T3 to test point A15TP4 STS) and turning LINE switch ON. A15 Controller LEDs A15DS1 through A15DS14 should all turn on, then turn off sequentially, indicating that A15 Controller has successfully executed self-test (if not, the four EPROMs might be improperly installed). In addition, all front-panel LEDs should turn on momentarily, indicating that HP 8568B has performed its power-on pretest.

After successful completion of self-test, a "BATTERY" flag should appear on the instrument CRT, indicating that information previously stored in CMOS RAM on A15 Controller has been lost or erased. Normally, the "BATTERY" flag appears after several years of use to indicate that lithium battery A15BT1 requires replacement.

9. Set LINE switch to STANDBY and remove jumper from A15 Controller.
10. Turn LINE switch ON and confirm that the "BATTERY" flag is no longer displayed.
11. Set LINE switch to STANDBY and remove power cord from rear of RF Section.
12. Replace Controller Cover, RF Section bottom cover, and two rear feet. Instrument is now ready for use (no recalibration is required).