

HALLIWELL, BERNARD J

I N T E R - O F F I C E S E R V I C E M E M O

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Supersedes: None

To: ALL INSTRUMENT SALES AND SERVICE MANAGERS

From: NETWORK MEASUREMENTS DIVISION (45), SANTA ROSA
PRODUCT SUPPORT (PL14)

Subject: 8350A SWEEP OSCILLATOR AND 83525A .01 TO 8.4 GHz RF PLUG-IN
INSTRUMENT UPDATES

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There have been some improvements in the 8350A Sweep Oscillator and 83525A .01 to 8.4 GHz RF Plug-in. These improvements affect either compatibility of the 8350A with the 83592A .01 to 20 GHz RF Plug-in or 8350A/83525A reliability. While most of the 8350A's and 83525A's have these improvements, some instruments in the field require these updates. Tables 1 and 2 list by serial number the instruments requiring modification. Any instrument that comes in for service should be checked for the appropriate modifications and, if necessary, the instrument should be updated. Parts and labor relating to the modification should be charged to warranty.

Table 1. 8350A Sweep Oscillator Updates

Serial Number	Reason for Update	Corrective Action
2024A00130 and below	For compatibility with the 83592A RF Plug-in.	Install jumper wire on motherboard between A9XA5B pin 11 and A9J2 pin 53.
2024A00165 and below	Update Firmware.	Replace A3A1 PROM board with Masked ROM kit.
2024A00290 and below	Prevent power supplies from shorting to bottom cover.	Install spacer on filter capacitor.
2024A00290 and below	Increase fuse rating of +5V supply to the rear panel Programming connector.	Check fuse rating of A9F3. Replace with 0.5A fuse.

Jim Stead, Product Support Engineer



Table 2. 83525A 0.01 to 8.4 GHz RF Plug-in Updates

Serial Number	Reason for Update	Corrective Action
2035A00100 and below	Extensive changes in circuitry.	Check software revision. If revision 00, return the 83525A to the factory for update.
2040A00101 to 2040A00115	Update Firmware.	Replace A3U1 and A3U2.
2040A00170 and below	Improve interface alignment with 8350A.	Check rear panel connector P1 pin A2 for alignment pin. If not there, install one.

8350A Sweep Oscillator Updates

Serial Number 2024A00130 and below: Install a jumper wire on the motherboard between A9XA5B pin 11 and A9J2 pin 53. This provides L BP2 (A5P2 pin 11) to the 64-pin ribbon cable to the RF Plug-in. L BP2 is used by the 83592A UNLEVELED indicator. The indicator will not turn on without this jumper.

Serial Number 2024A00165 and below: A revision to the 8350A firmware was implemented and should be installed in these instruments. Replace the A3A1 PROM board assembly with the Masked ROM Kit (HP Part No. 08350-60049). Return the A3A1 assembly to the Network Measurements Division to the attention of Jim Stead, Product Support Engineer.

Serial Number 2024A00290 and Below: It is possible for the bottom cover to flex and contact one of the mounting screws for the power supply filter capacitors on the motherboard. By installing a flat washer (HP Part No. 3050-0226) as a spacer on the mounting screw for the negative terminal (ground) of the +15V filter capacitor (C3), the cover is prevented from contacting any mounting screws with voltage potential.

Serial Number 2024A00290 and below: Check amperage rating on fuse A9F3 (located at rear of motherboard next to A9J3). It should be a 0.5A fuse; if necessary, replace it with HP Part No. 2110-0046 (0.5A fuse).

83525A 0.1 to 8.4 GHz Plug-In Updates

Serial Number 2035A00100 and below: These instruments were shipped as demonstration units and require extensive changes. They must be returned to the factory for updating. To determine the firmware revision, enter SHIFT 99 on the 8350A front panel; the firmware revision number will be displayed in the POWER display. If 00 is displayed, the 83525A must be returned to Network Measurements Division for updating before delivery to customers. Allow four to six weeks for modifications.

Serial Number 2040A00101 to 2040A00115: To determine the firmware revision, enter SHIFT 99 on the 8350A front panel. The firmware revision number will be displayed on the front panel POWER display. If 00 is displayed, replace A3U1 and A3U2 with HP Part No.'s 5081-8166 and 5081-8167, respectively. If the PROM's are mounted in sockets, remove the sockets before installing the new PROM's. Operation of the new PROM's is verified if the instrument passes an Instrument Preset self test.

Serial Number 2040A00170 and below: Check the rear panel power supply interface connector (P1) for installation of a steel alignment pin at pin location A2. If necessary, install an alignment pin (HP Part No. 11869-20020) and a retainer ring (HP Part No. 0510-0089).