

S E R V I C E N O T E

SUPERSEDES: None

HP 53310A Modulation Domain Analyzer

Firmware Status and Upgrade Information

Serial Numbers: 0000A00000 / 9999Z99999

Situation:

The HP 53310A has used several sets of firmware to date. This service note provides history and information on upgrades. It should be noted that some minor instrument differences will exist with different versions. The documentation that was shipped with the particular instrument is current for that instrument.

Firmware History:

- 1. First set of firmware released: (Affects only ~ 120 units)
 - Part numbers: 53310-80018/19/20/21
 - FW Revision: 3050
 - Upgrade Kit PN: N/A
 - Instrument Serial Numbers: 3105A00101-198/201-205/207-221/224 only

Continued

DATE: 20 October 1992

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
INFORMATION ONLY		
AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
JD	0200	



2. Second set of firmware released:

- Part numbers: 53310-80022/23/24/25
- FW Revision: 3105
- Upgrade Kit PN: 53310-67003
- Instrument Serial Numbers: 3105A00199-200/206/222-223/225 and above up to 3121A00780

NOTE:

Obsolescence of the 53310-67003 kit and individual parts will occur by 12/1/92. It has been replaced by the 53310-67006 kit as explained below.

3. First "standard + Opt 031" firmware:

- Part numbers: 53310-80028/29/30/31
- FW Revision: 3234
- Upgrade Kit P/N: N/A
- Instrument Serial Numbers: 3121A00781 to 3121A00800 .PA Pg 2

4. Second "standard + Opt 031" firmware:

- Part numbers: 53310-80028/29/30/31
- FW Revision: 3235
- Upgrade kit P/N: 53310-67006
- Instrument serial numbers: 3121A00801 and above

NOTES

1. Firmware revision may be obtained from any 53310A by pressing the UTILITY menu key. The firmware rev is shown in the lower right corner of the screen.
2. Revision 3234 to 3235 was made when a minor enhancement was installed shortly after beginning shipments of the Opt 031 instruments. Rev 3235 is fully backward compatible with earlier instruments. No documentation or specifications were impacted by this change.
3. The 53310-67006 firmware upgrade kit may be obtained from SMO. It contains four EPROMS, a documentation upgrade package, and an installation note. Cost is US\$250.00. It is customer installable and takes about 30 minutes.
4. All 53310A A3 processor boards (53310-60003/69003) in replacement parts stocks (new and exchange) will be/have been upgraded to the 3235 firmware revision. Thus, if an A3 board is replaced during a repair action, this firmware will already be installed. The documentation upgrade package (53310-90033) is supplied with the new A3 board to allow users to update their 53310-90001 operation and 53310-90003 programming manuals.

NOTE: If an HP service center or customer service shop replaces an A3 board, it is imperative that the upgrade documentation package supplied with it reaches the end user!

5. The 3234 and 3235 firmware allows the following new capabilities:

- An 8 MHz repetitive sampling mode.
- A time referenced external trigger so events can be accurately timed relative to the trigger event.
- Measured and displayed frequency range increased from 8:1 to 64:1 to allow tracking larger dynamic shifts in frequency.
- Various operating enhancements.