8560E-19C

Supersedes: 8560E-19B

HP 8560E Portable Spectrum Analyzer

8560E-19C Serial Numbers 0000A00000/3745A03343
8561E-15C Serial Numbers 0000A00000/3745A02170
8562E-07C Serial Numbers 0000A00000/3745A00609
8563E-19C Serial Numbers 0000A00000/3745A08208
8564E-14C Serial Numbers 0000A00000/3745A01072
8565E-14C Serial Numbers 0000A00000/3745A00838

Serial Numbers as of 31 December, 1996
8560E: 3650A02708
8561E: 3650A01743
8562E: 3650A00259
8563E: 3650A06273
8564E: 3650A00680
8565E: 3650A00576

Year 2K Update Information

To Be Performed By: HP-Qualified Personnel

Situation:
The HP8560 Series portable spectrum analyzers with firmware
revisions earlier than 971024 have two year 2000 issues only when
used with the HP 85620 Mass Memory Module (MMM) TIMEDATE and
AUTOEXECUTE functions. The MMM is used to store large numbers of
traces, execute downloadable programs (DLPs) and personalities
(e.g. HP 85671A Phase Noise Utility), and do limit-line pass/fail
testing. Here are the descriptions of the bugs and workarounds:

        1. Timedate Stamp on Saved Traces
        The time/date stamp is stored with all traces. Whenever a
        catalog is executed, either from the front panel or over
        HP-IB, the order in which the catalog appears will be
        compromised by the fact that only two digits of the year
        are generated from the real-time clock (RTC, hardware).
        This most directly affects traces which are either stored
        automatically (using the AUTOSAVE feature) or those traces
        which are stored without a unique title. For example, if a
        trace is stored without a title, the name becomes:

            TRACEYYMMDDHHMMSS

        Where YY = year, MM = month, DD = day, HH = hour, etc.
        The obvious sorting order becomes significant based on the
        year. The year 2000 is represented by 00 and therefore
        sorts before any previous year.

        Since it is highly unlikely these analyzers and the MMM
        will be used after 2089 (100 years after the MMM was
        introduced), all traces saved will have a unique filename.
        The sorting issue can be resolved by adding 1900 to all
        years 89 through 99 and above and adding 2000 to all years
        00 through 88. This can be done either mentally during
        front-panel operation or programmatically during remote
        operation.

        2. AUTOEXECute Date Limitations
        The AUTOEXEC function allows DLPs to be executed, or
        traces saved automatically when a certain criteria has
        been met. Criteria can be either a specified time
        interval, end-of-sweep (EOS), or a limit-line failure.
        When setting the autoexecution criteria, it is necessary
        to specify a start and stop date. Currently, only dates
        between 1 Jan 1988 and 31 Dec 1999 are acceptable dates.

The only known workaround for this is to change the date
on the real-time clock to a date between 1 Jan 1988 and 31
Dec 1999. For example, if the real date is 3 June, 2003,
set the date to 3 June 1993. The disadvantage of this
workaround (besides the obviously incorrect date) is that
the incorrect date will be saved with any saved traces. In
the example given, it would be necessary to add 10 years
to the all dates displayed by the MMM.

Since the AUTOEXEC feature is rarely used, and, when it
is, the data is usually subjected to post-processing by
the user, the workaround described above is reasonable.

Solution:
8560E series Portable Spectrum Analyzers with firmware older than
971024 can be upgraded to the current firmware revision to elim-
inate the bugs described, or the workarounds can be used.
Instruments with serial prefixes 3410A and above only require new
firmware. Older instruments require hardware retrofits to make
the new firmware compatible. Detailed firmware upgrade
information is available in Service Notes 8560E-04I, 8561E-03I,
8562E-03C, 8563E-04I, 8564E-01H, 8565E-01H, and in Firmware Note
08560-90150. For cost savings HP recommends that the workarounds
be used rather than doing the upgrades in situations where this is
acceptable.

Upgrades for instruments shipped after 31 December, 1996 (see
serial numbers listed above) will be covered under Extended
Warranty.

Date:
20 January, 1999
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******************************************************************
*                                                                *
*                  MODIFICATION RECOMMENDED                      *
*                  ------------------------                      *
*                                                                *
*            STANDARDS: LABOR HOURS __0.5_____                  *
*      ACTION CATEGORY: ON SPECIFIED FAILURE __    IMMEDIATELY __ *
*                       AGREEABLE TIME _X                        *
*    LOCATION CATEGORY: CUSTOMER INSTALLABLE _X      ON-SITE __  *
*                       HP LOCATION _X                           *
*         AVAILABILITY: PRODUCT'S SUPPORT LIFE                   *
*    SERVICE INVENTORY: RETURN __      SCRAP __      SEE TEXT _X *
*           USED PARTS: RETURN __      SCRAP __      SEE TEXT _X *
* HP RESPONSIBLE UNTIL: See Text                                 *
*        AUTHOR/ENTITY: _GPB/5320_____ *
*      ADDITIONAL INFO: _____ *
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