SUPERSEDES: NONE

HP E5100A/B Network Analyzer
Firmware Revision: 2.10 and below

Modification to fix "PROG:STAT?" command error in IEEE 64-bit floating point data transfer format (FORM3)

To Be Performed By: HP-qualified personnel

Parts Required:

Need one of the following firmware disks:
1. HP P/N E5100-180xx (FW DISK #509)
   For: Firmware revision before modification ... REV.2.10 and below
        Installed option ....Option 509

2. HP P/N E5100-181xx (FW DISK 1BW)
   For: Firmware revision before modification ... REV.2.10 and below
   LCD display type .... Black and white
   Maximum number of sweep points .... 801 or 401

3. HP P/N E5100-182xx (FW DISK 1CL)
   For: Firmware revision before modification ... REV.2.10 and below
   LCD display type .... Color
   Maximum number of sweep points 401

Continued

DATE: September 1998

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:
MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ■ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: LABOR 1.0 Hours			
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☐ ON-SITE ■ HP LOCATION	SERVICE INVENTORY:	☐ RETURN ■ SCRAP ☐ SEE TEXT	USED PARTS:	☐ RETURN ■ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	HP RESPONSIBLE UNTIL: September 2000			
AUTHOR: KI	ENTITY:	ADDITIONAL INFORMATION:			

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4. HP P/N E5100-183xx (FW DISK 2BW)
   For: Firmware revision before modification ... REV.2.10 and below
   LCD display type .... Black and white
   Maximum number of sweep points 1601

5. HP P/N E5100-184xx (FW DISK 2CL)
   For: Firmware revision before modification ... REV.2.10 and below
   LCD display type .... Color
   Maximum number of sweep points 1601

Notes:

* "xx" should be the latest number. (It must be "04" or later.)
"04" is assigned for firmware revision 2.11 in which the
problem described in this service note was solved.
* Choose a correct firmware disk according to the installed
option, LCD display type, and maximum number of sweep points
of the HP E5100A/B. Installing incorrect firmware may cause se-
rious trouble to the HP E5100A/B.
* Firmware revision 3.00 or later (HP P/N E5100-185xx) should
NOT be installed into the HP E5100A/B which currently has
firmware revision 2.xx or below without hardware modification.
Installing REV.3.xx without required hardware modification
may cause serious trouble to the HP E5100A/B. To install the
firmware revision 3.00 or later into the unit, the HP E5100A/B
must be modified using a REV.3.xx upgrade kit. That hardware
modification is NOT covered by this service note.

Situation:

Sending "PROG:STAT?" command when the HP E5100A/B is set to IEEE 64-bit floating
point data transfer format (FORM3) may cause an error. If "FORM4" (ASCII data transfer for-
mat) command is sent before the "PROG:STAT?" commnad, this error does not occur. This
problem is caused by a firmware bug on revision 2.10 and below, and it is fixed on revision
2.11.

Solution/Action:

This problem can be fixed by firmware update.

1.0. Firmware update procedure

1-1. Press [System],{MORE},{SERVICE MENU},{FIRMWARE REVISION} to confirm
     that the unit has a firmware revision 2.10 and below.

1-2. Confirm that the firmware disk is correct one to update the firmware of the unit. (see the
     part list of "Parts Required:")

1-3. Turn OFF the unit.

1-4. While pressing [Preset] and [0] keys at the same time, turn ON the E5100A/B, and wait
     for a while until some {firmware update} softkey is appeared on the display.

1-5. Press {Firmware Update} softkey.

1-6. Insert the firmware disk into the floppy disk drive of the HP E5100A/B.

1-7. Press {OK} softkey.

1-8. Press {EXECUTE UPDATE} softkey.

1-9. Press {OK} softkey to start the firmware update.

Note:

It will take several minutes to complete the firmware update.
When the firmware update is completed, the unit automatically
executes preset operation.

2-0. Final operation check

2-1. Turn the E5100A/B ON and confirm that the unit passes power on selftest.

2-2. Press [System],{MORE},{SERVICE MENU},{EXECUTE TEST} to start self-diagnoses.

2-3. Confirm that the unit passes the self-diagnoses.