

S E R V I C E N O T E

SUPERSEDES: NONE

HP E5100A/B Network Analyzer

Firmware Revision: 2.11 and below

Modification to fix incorrect measurement data problem at the first sweep point when the smoothing function is turned on

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.2.11 and below
 Installed option Option 509
- 2. HP P/N E5100-181xx (FW DISK 1BW)
 For: Firmware revision before modification ... REV.2.11 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.2.11 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:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 1.0 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: KI	ENTITY:	HP RESPONSIBLE UNTIL: September 2000	
		ADDITIONAL INFORMATION:	



4. HP P/N E5100-183xx (FW DISK 2BW)
For: Firmware revision before modification ... REV.2.11 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.2.11 and below
LCD display type Color
Maximum number of sweep points 1601

Notes:

- * "xx" should be the latest number. (It must be "05" or later.)
- * 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 serious 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:

When the smoothing function is turned on, the measurement data at the first sweep point may be incorrect. This problem is caused by a firmware bug on revision 2.11 and below, and it is fixed on revision 2.12.

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 2.11 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.