SUPERSEDES:  NONE

## E5100A/B Network Analyzer

### Modification to fix output trace data error

**To Be Performed By:** HP-qualified personnel

**Parts Required:**

Need one of the following firmware disks:

| HP P/N | Qty. | Description | Used for |
|---|---|---|---|
| E5100-18003 | 1 | FW DISK 2.10#509 | E5100A with Option 509 |
| E5100-18103 | 1 | FW DISK 2.10 1BW | E5100B with black & white LCD |
| E5100-18203 | 1 | FW DISK 2.10 1CL | E5100B with color LCD |
| E5100-18303 | 1 | FW DISK 2.10 2BW | E5100A with black & white LCD (*1) |
| E5100-18403 | 1 | FW DISK 2.10 2CL | E5100A with color LCD |

Note *1: If the maximum number of sweep points of the HP E5100A is 801, P/N E5100-18103 should be used.

*Continued*

DATE:  August 1996

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:
# MODIFICATION RECOMMENDED

| ACTION CATEGORY: | ☐ IMMEDIATELY<br>■ ON SPECIFIED FAILURE<br>☐ AGREEABLE TIME | STANDARDS:<br>LABOR  1.0  Hours | | |
|---|---|---|---|---|
| LOCATION CATEGORY: | ☐ CUSTOMER INSTALLABLE<br>☐ ON-SITE<br>■ HP LOCATION | SERVICE INVENTORY: ☐ RETURN ☐ SCRAP ☐ SEE TEXT | | USED PARTS: ☐ RETURN ☐ SCRAP ☐ SEE TEXT |
| AVAILABILITY: | PRODUCTS SUPPORT LIFE | HP RESPONSIBLE UNTIL:  August 1998 | | |
| AUTHOR:  KI | ENTITY:  3355 | ADDITIONAL INFORMATION: | | |

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**Situation:**

When the following data output commands are used to get a trace data at a specific trace point, the obtained data may be different from the actual data at that point:

> OUTPDATAP?
> OUTPDATTP?
> OUTPFORMP?
> OUTPMEMTP?
> OUTPRFORMP?
> OUTPRTMEMP?

<Example>

> OUTPUT @E5100;"OUTPFORMP? 1"
> ENTER @E5100;A

In the above program, obtained data "A" should be the data at the trace point "1". However, it may be the data at the trace point "2". That is, the obtained data at each trace point may be shifted by 1 trace point.

This problem is caused by a firmware bug on revision 1.01 and below.

**Solution/Action:**

This problem can be fixed by firmware update.

1. Firmware update procedure

1-1. Press [System],{MORE},{SERVICE MENU},{FIRMWARE REVISION} to confirm that the unit has a firmware revision 1.01 or 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 execute preset operation.

2. 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.