

# E5100A/B-08

## S E R V I C E N O T E

SUPERSEDES: NONE

### E5100A/B Network Analyzer

**Modification to fix problem of incorrect query response for INPUT1 port**

**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:			
<b>MODIFICATION RECOMMENDED</b>			
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 type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
		USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	HP RESPONSIBLE UNTIL: August 1996	
AUTHOR: KI	ENTITY: 3355	ADDITIONAL INFORMATION:	

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**Situation:**

When INPT? command is used to examine whether the INPUT1 port of the 24 bit parallel I/O port receives any pulse input, the returned value for the command may not correct.

**Example**

```
OUTPUT @E5100;"INPT?"  
ENTER @E5100;A
```

In normal operation, query response should be,

0: There is not pulse input at the INPUT1.

1: There is pulse input at the INPUT1.

(Once INPT? returns 1, next INPT? query returns 0 until the next pulse input occurs at INPUT1.)

However, the obtained data "A" might be incorrect.

This problem is caused by a firmware bug on revision 2.00 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} keys to confirm that the unit has a firmware revision 2.00 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 execute preset operation.

- 1-10. Put a firmware revision label included in the firmware disk set on the rear panel.
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.