S E R V I C E   N O T E

SUPERSEDES: NONE

E5100A/B Network Analyzer

Firmware Revision: 2.01 and below

Modification to fix problem of incorrect RQS bit data in Status Byte Resister

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 ■ 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:	PRODUCTS SUPPORT LIFE	HP RESPONSIBLE UNTIL: August 1996		
AUTHOR: KI	ENTITY: 3355	ADDITIONAL INFORMATION:		

HEWLETT® PACKARD

Situation:

The RQS (ReQuest Service) bit of the HP E5100A/B's Status Byte Resister may be set to "1" incorrectly, when the status of the bit should be "0".

Example

OUTPUT @E5100;"*ESE 1"
OUTPUT @E5100;"SRE 32"
OUTPUT @E5100;"*OPC"
Stb6a=BIT(SPOLL(@E5100),6)
Stb6b=BIT(SPOLL(@E5100),6)
OUTPUT @E5100;"*OPC?"
Stb6c=BIT(SPOLL(@E5100),6)
Stb6d=BIT(SPOLL(@E5100),6)

In the above program, each RQS bit status read by SPOLL command should be:

Stb6a = 1
Stb6b = 0
Stb6c = 0
Stb6d = 0

However, Stb6c might be "1" incorrectly.

This problem is caused by a firmware bug on revision 2.01 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} keys to confirm that the unit has a firmware revision 2.01 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 the 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.