E5071A-04B

S E R V I C E   N O T E

Supersedes:
E5071A-04A

E5071A ENA Series Network Analyzer, 300 kHz to 8.5 GHz

Serial Numbers: [0000A00000 / 9999Z99999]

When install E5071-6x571 A1 SOURCE BOARD, update E5071A Operating System and install the power-on test limit file at the same time.

Parts Required: See solution

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:
INFORMATION ONLY
AUTHOR: KH   PRODUCT LINE: WN
ADDITIONAL INFORMATION:

© AGILENT TECHNOLOGIES, INC. 2005
PRINTED IN U.S.A.

∴∵ Agilent Technologies

June 6, 2005

Situation:

The latest service part for A1 source board is E5071-66571 and E5071-69571. (As of MAY 2005) When using these A1 boards in repair, Rev A.03.62 or later firmware is required to recognize these A1 board correctly. The power-on test limit file and the internal test file rev A.05.00 or later also need to be installed to avoid unnecessary test failures.

With Rev A.03.60 or below version firmware, an error message "Power on test fail (A1 not found)" is shown at lower left part on a display at power on. Without the power-on test limit file, any of messages "Power on test failed (A1 DC-bus, 0x00000010)", "Power on test failed (A1 DC-bus, 0x00000020)", or "Power on test failed (A1 DC-bus, 0x00000030)" is shown at power on.

To avoid the trouble in customer side, especially after system recovery, (1) update the E5071B operating system if customer unit's firmware is Rev.A.03.60 or below, (2) install the power-on test limit file and the latest internal test file.

Solution/Action:

When original firmware version is Rev A.03.60 or below,

Parts Required

P/N	Description	Qty.
E5071-69571 (or E5071-66571)	A1 Source board module	1

Update the E5071A operating system image referring to the service note E5071A-06B. Then, replace A1 module and perform the appropriate post repair procedures referring to the E5070A/E5071A service manual chapters 6 and 7.

At last, attach the last page of this note to the unit to inform customer that the HDD is changed and a firmware version is updated.

When original firmware version is Rev A.03.62 or later,

Parts Required

P/N	Description	Qty.
E5071-69571 (or E5071-66571)	A1 Source board module	1

Confirm that the E5071A is equipped with the power-on test limit file and the internal test rev A.05.00 or later. "Perform initial setting for the E5071A" section of the service note E5071A-06B includes the procedures to install these two files.

Then, replace A1 module and perform the appropriate post repair procedures referring to the E5070A/E5071A service manual chapters 6 and 7.

Retrofit Time

Assembly Time:	0.5 hour
Adjustment Time:	No additional time due to this service note.
Performance Tests Time:	No additional time due to this service note.
Total Time:	0.5 hour

Note to Customer: Firmware Upgrade Notice

Your unit has failure of the source board module, and we replaced it to the latest model. This required firmware update to Rev.A.03.62 in order to assure correct operation of the new source board.

This firmware update adds some new features as listed below, and it might require some changes in operational procedures at your location; however, this firmware update is necessary for using the latest source board module. Please refer to the latest user's guide for detailed information on the new features. Thanks for your understanding.

Agilent Technologies

You can download the latest user's guide by going to www.agilent.com/find/ena and then selecting "Manuals & Guides" from the "Key library information" menu.

Additional features from Rev.A.03.60
No new features

Additional features from Rev.A.03.54 *
- Add Auto Power Range set function

Additional features from Rev.A.03.53
Change of A.03.54, and
- Add Initial Source Port Control feature

Additional features from Rev.A.03.50
Changes of A.03.53, and
- Maximum output power limitation (-10 dBm) *
- Add "SDEV" to CALC:SEL:FUNC:TYPE command parameter

Additional features from Rev.A.03.01
Changes of A.03.50, and
- VBA Usability Enhancement
- ECal Functionality Enhancement
- Embedding/De-embedding Enhancement

Additional features from Rev.A.03.00
Changes of A.03.01, and
- Add system characteristic impedance (Z0) set feature

* Apply to only E507xA with A01 or A02 add power feature option.