

4287A-08

S E R V I C E N O T E

Supersedes:
NONE

4287A RF LCR Meter

**Serial Numbers: MY43300401/MY43300700
SG43300101/SG43300103**

Abrupt hang-up in continuous measurements

This service note describes the symptom and remedy for abrupt hang-up in continuous measurements that possibly arises on the units with specific serial numbers.

To Be Performed By: Agilent-Qualified Personnel or Customer

**Parts Required:
NONE**

Note: Refer to Agilent.com -> 4287A -> Drivers & Software -> BIOS Update to download the BIOS Update software or 4287A-Q8 of Service FAQ on CTD-Kobe website.

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: 0.5 Hours
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: HH	PRODUCT LINE: WN	AGILENT RESPONSIBLE UNTIL: End Of Support	
ADDITIONAL INFORMATION:			

© AGILENT TECHNOLOGIES, INC. 2007
PRINTED IN U.S.A.



February 7, 2007

Situation:

The 4287A with specified serial numbers may hang up within 1 hour or 1 day when continuously operated in EXTERNAL trigger mode and :DISP [ON] state. To restart operation, the 4287A must be turned off and on. In INTERNAL trigger mode and :DISP [OFF] state, the incidence of hang-up symptom is low.

Solution/Action:

The hang-up symptom is caused by version 02.03.05 or 02.23.05 BIOS in Motherboard (CPU board). When the 4287A units with specified serial numbers are in for service, check the version of installed BIOS. If it is version 02.03.05 or 02.23.05, replace the BIOS with version 02.03.11 or later one in accordance with the following procedure:

[BIOS version check procedure]

1. Connect keyboard to Mini-DIN type KYBD connector on the 4287A rear panel.
2. Turn the instrument on.
3. As Agilent Technologies logo appears, press **F2** key. Phoenix BIOS Setup Utility is displayed.
4. As a wizard prompts you to "Enter Password:", press **k, i, d** and **Enter** keys.
5. BIOS setup menu is displayed. Select "Advanced" with arrow **←** **→** keys from the menu, then "Advanced Version Information" with **↑** **↓** keys and press **Enter** key.
6. Look at the following BIOS version information:
Main BIOS [02.03.05 / 02.23.05 / 02.03.11]
7. When Main BIOS is version [02.03.05] or [02.23.05], proceed to BIOS update procedure. Otherwise, the BIOS does not need to be updated. Exit the BIOS Setup Utility.
8. Press **ESC** key to go back to the first item of the BIOS setup menu.
9. Select "Exit" with arrow **←** **→** keys, "Exit Discarding Changes" with **↓** key and press **Enter** key.
10. After Windows OS and 4287A measurement display are rebooted, turn the 4287A off.

[BIOS update floppy disk creation procedure]

1. Access either of the webs to download the zip file.

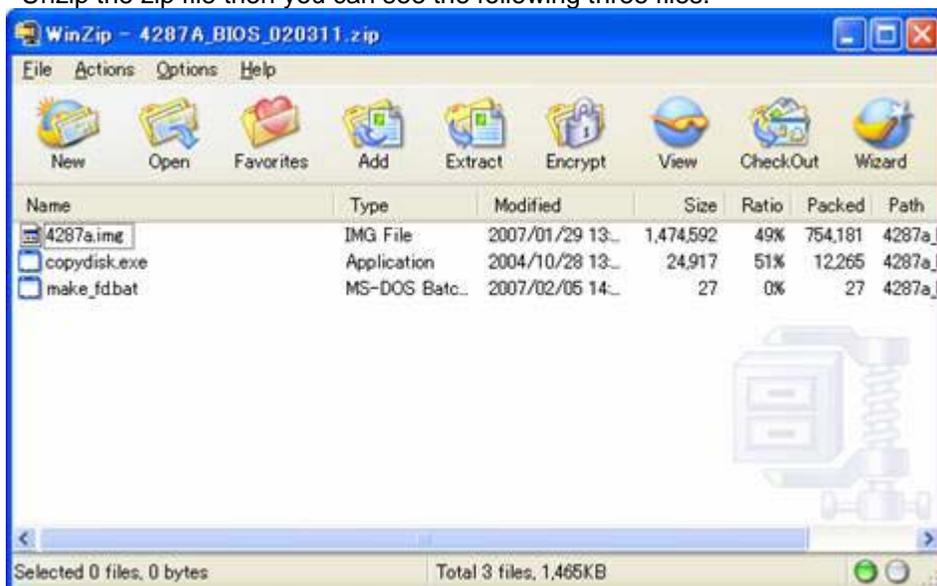
For Customer

Agilent.com -> 4287A -> Drivers & Software -> BIOS Update to download the BIOS Update software
<http://www.home.agilent.com/agilent/editorial.jsp?cc=US&lc=eng&ckey=924210&nid=-536902441.536880953.02&id=924210>

For Agilent Internal

http://kobemktg.jp.agilent.com/field_eng/service/faq/4287a.htm#8

2. Unzip the zip file then you can see the following three files.



3. Extract (or Drag Drop) these three files to your Desktop screen.

4. Insert your formatted floppy disk to your PC's floppy disk drive.
5. Double click make_fd.bat file on your desktop screen. Then you can see Command Prompt screen.

```

C:\WINDOWS\system32\cmd.exe
C:\Documents and Settings\jun\Desktop>copydisk.exe 4287A.IMG A:
COPYDISK Version 2.02
(C) Copyright Hewlett-Packard Company 1984-1986, 1988-1989, 1993.

Place Destination disk in drive A:
Press any key when you are ready ...

```

6. Press any key. Then BIOS Update software is automatically installed to your floppy disk. In case it fails, close the Command Prompt screen and retry from (5).
7. While installing, you see xxxx-xxxx of 2879. Then “copy complete” is shown when all the installation is completed.
8. Verify the following 10 files are on your floppy disk.
 - 87A_0311.ROM
 - Choice.com
 - IBMBIO.COM
 - IBMDOS.COM
 - PANEL.EXE
 - PHLASH.EXE
 - PLATOEM.BIN

 - AUTOEXEC.BAT
 - COMMAND.COM
 - CONFIG.SYS

Note: AUTOEXEC.BAT, COMMAND.COM and CONFIG.SYS can be seen when the “show hidden files and folders” is activated.

To check this, go to followings below.

Explorer -> Tools -> Folder Options... -> view -> Hidden Files and folders.

[BIOS update procedure]

1. Insert Floppy Disk for BIOS Update in the FDD slot of the 4287A.
2. Turn the 4287A on.
3. As Agilent Technologies logo appears, press **ESC** key and wait for 2 seconds until “Boot menu” is displayed.
4. Select “Removable devices” with **↓** key and press **Enter** key. “Phoenix BIOS flash utility” is booted from floppy disk to change BIOS setup.
NEVER TURN THE 4287A OFF UNTIL YOU FINISH WITH SUBSEQUENT STEPS 5, 6 AND 7.
5. The following message will be displayed:
Phoenix BIOS flash utility: PHLASH overwrites motherboard BIOS flash ROM and erases existing CMOS setting.

Wait approximately 1 minute until BIOS flash ROM update is finished.

6. As “PRESS ANY KEY TO EXIT” is displayed, press **Enter** key. The 4287A is automatically rebooted. Motherboard CMOS setup is restored by data from updated flash ROM.

[BIOS update confirmation procedure]

1. Perform step 3 through 6 of BIOS version check procedure.
2. At step 6, verify that version [02.03.11] is displayed. If OK, proceed to BIOS date setup procedure.
Note: If version [02.03.05] or [02.23.05] is displayed, re-perform BIOS update procedure.

[BIOS date setup procedure]

Since the date of BIOS is reset to Jan 01 2001, set it to correct date as follows:

1. With arrow   keys, select “Main” from BIOS Setup menu.
2. Select “System Time” and set the displayed time to present time by using +, - and **TAB** keys.
3. Select “System Date” with  key. Set the displayed date to present date by using +, - and **TAB** keys.
4. Press **ESC** key to go back to the first item of the BIOS setup menu.
5. Select “Exit” with arrow   keys, “Exit Saving Changes” with   keys and press **Enter** key.
6. “Setup Confirmation” dialog appears. Select “Yes” to exit the menu and auto-reboot the 4287A.
7. Remove the BIOS Update disk from the FDD slot of the 4287A.