86030A-04

S E R V I C E   N O T E

Supersedes:
None.

86030A 50GHz Lightwave Component Analyzer

Serial Numbers: [0000A00000 / 9999Z99999]

HDD Recovery Procedure for 86030A 4U System Controllers (P/N 86030-80019) configured with PCI-GPIB+ Cards

Parts Required:
P/N	Description	Qty.

NONE.

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:
INFORMATION ONLY
AUTHOR: RBS   PRODUCT LINE: 8F
ADDITIONAL INFORMATION:

Agilent Technologies

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Situation:
After performing a HDD recovery on a new 86030A 4U System Controller (P/N 86030-80019, see Figure 1), you may be required to change the GPIB card configuration.

New 4U system controllers have a PCI-GPIB+ card installed with an Aviant motherboard. The recovery CD in the 86030A SW Upgrade Kit (P/N 86030-60007, see Service Note 86030A-01 for contents) configures drivers to support older controllers with PCI-GPIB cards (note, no '**+**').

How do you determine if you must to update your GPIB configuration with different drivers?

After performing a system recovery on a 4U 86030A controller (P/N 86030-80019) using recovery disk P/N 86030-10002, the following symptoms will likely be present:
1. Error message may occur after launching the 86030A Main program:
     "***Error: Operation completed successfully" with "OK" button appears in a
      LCA86030Aserver window, immediately after the 86030A background has come on
      screen. At this point, the System Status window is displaying "Initializing GPIB…."

2. The Service Control Manager will report "At least one service or driver failed during
     System Startup. Use event viewer to examine the event log for details". The event viewer
     records this "The GPIB Board Class driver service failed to start due to the following
     error: The parameter is incorrect".

3   Launch the NI "**Measurement & Automation**" program from the desktop,
     i.   Under **Devices and Interfaces**, right-click **GPIB0 (PCI-GPIB)**.
     ii. Click **Properties->Confgure.**
     iii. A Serial Number should show in the box if the GPIB card is correctly configured and
           found. If not, then the card may not be configured properly. Continue with the
           Solution/Action steps below.

The above symptoms are an indication that the drivers for the PCI-GPIB+ card must be updated.

Solution/Action:
After having used the recovery disk (PN:86030-10002 Aviant Recovery Disk) and observing the above symptoms, run the Software Configuration wizard and select board type "PCI-GPIB+".

Procedure:
1. Launch the NI "**Measurement and Automation**" program from the desktop.
2. Under **Devices and Interfaces,** right-click **GPIB0 (PCI-GPIB).**
3. Select **NI 488.2 Getting Started Wizard.**
4. Select **Configure Your GPIB Interface** -> **Next**.
5. Follow the directions and configure GPIB0 for **Board Type = PCI-GPIB+**
6. Start the 86030A Main software.

Result: If the GPIB card configuration was the problem, the 86030A Main program should launch without hanging at the "Initializing GPIB…" message or displaying the "Error – Operation Successfully Completed" message.

Figure 1 – ("New" 2003) 4U System Controller (P/N 86030-80019)
- configured with PCI-GPIB+ card and Aviant Motherboard.
- Recover HDD with PN:86030-10002 Aviant Recovery Disk followed by GPIB Configuration setup.

Figure 2 – 2U System Controller with front panel open (86030-80011 - discontinued)
– configured with PCI-GPIB card and Aviant or Endeavor+ Motherboard.
– Recover HDD with EITHER PN:86030-10002 Aviant Recovery Disk or PN 86030-10007 Endeavor+ Recovery Disk, as appropriate based on motherboard.

Figure 3 – ("Old" pre-2002) 4U System Controller ("Boxcar Willie", army green in color, discontinued)
- configured with PCI-GPIB card and Motherboard has AMD K6 Processor.
- Recover HDD with PN 86030-10006 4U Recovery Disk.

END.