488-PCI/488-PCM Errata

E.1 INTRODUCTION

This Errata contains additional information and changes to the manual since Revision 1 was printed.

E.2 MISSING INSTALLATION PAGE

Some manuals were accidentally printed with the wrong information on pages 1-7 and 1-8. These pages contained the NT installation instructions and troubleshooting directions. The correct information is shown on pages E-2 and E-3.

If you want a corrected manual, send a request to custsvc@icselect.com. State your correct mailing address, product model number and product serial number.

Additional corrections listed on page E-4

Revised 11-1-99

1.6.2 Installation Procedure - Windows NT 4.0

Perform the following steps to install the 488-PCI/488-PCM Drivers in a PC with Windows NT 4.0.

1. Turn the computer off and install the 488-PCI or 488-PCM card in the computer.
2. Turn the computer back on.
3. If you have the 488-PCI/PCM NT Driver Disk, insert the disk in the computer's floppy disk drive. If you have the 488-PCI/PCM CD, put the CD in the computer's CD ROM drive.
4. Create a temporary directory on the hard drive and copy the file ICS_NTGPIB.EXE into the directory. If you do not have the NT disk or CD, download the ICS_NTGPIB.EXE file from ICS's website into the temporary directory.
5. Double click on the file to explode it. This will extract all of the setup files into the temporary directory.
6. Run SETUP.EXE in the temporary directory.
7. Follow the instructions on the screen to complete the software installation. Select the desired drivers for your application.
8. From Start>Programs>GPIB-32. Run CBCONF32.
9. Select Edit GPIB0 Board Options, then in the next menu select GPIB0 Board Options. Verify that the board is INSTALLED and that the Board Type matches your board type (488-PCI or 488-PCM). Press ESC to return to the main menu. Select SAVE and then EXIT.
10. Install the GPIBKybd program by following the instructions that are included with the program.

1.6.3 Installation Problem Solving

The most common problem is errors in loading or opening the DLL. In either case, go to START>PROGRAMS>ICS ELECTRONICS GPIB and run the CBCONF32 program. Select Edit GPIB0 Board Options. In the next menu, select GPIB0 Board Options. Verify that the board is INSTALLED and that the Board Type matches your board type (488-PCI or 488-PCM). Confirm that the IRQ setting matches the IRQ number in the Device Manager. Press ESC to return to the main menu. Select SAVE and then EXIT.

If the installation directory was renamed during installation, check the Autoexec file. Set GPIB DIR must point to the correct directory name and the directory must be in the path.

1.7 SOFTWARE ORGANIZATION

The 488.2 Driver software includes DLLs for controlling the GPIB hardware, files for supporting various languages utility files and demonstration programs. During the Windows 95/98 installation, the DLLs are placed in the Windows System directory. (In Windows NT 4.0, the DLL are placed in the System32 directory). The language support files, demos and utility files are placed in the ICS_GPIB directory. The files are organized into directories that correspond to the operating system and the supported language. Files that end with '32' are Windows files and require the DLL to run. Files that do not have the '32' suffix are DOS files and do not require the DLLs.

Software use instructions vary with the computer's operating system and are described in the section for the appropriate operating system. ICS_GPIB directory contains a Readme.doc file, ICS's Keyboard Controller Program and other utilities and txt files for using third party software. Refer to Section 3 for more information about the 488.2 Driver.

1.8 KEYBOARD CONTROLLER PROGRAM

1.8.1 Keyboard Controller Operation

The Keyboard Controller Program lets a user interactively control GPIB devices directly from the computer's keyboard. The Keyboard Controller program is the recommended way to test the 488-PCI and 488-PCM Cards after their installation. The Keyboard Controller Program is also useful for testing GPIB (HP-IB or IEEE-488) devices without writing a program or for trying out device commands on a new instrument before incorporating them into a program.

The Keyboard Controller program is installed in the ICS_GPIB directory with the other ICS files. To run the Keyboard Controller program, click the Window's Start menu, point to Programs and then to ICS Electronics GPIB. Select GPIBkybd from the submenu.

The program opens with the panel shown in Figure 1-3. The Keyboard Controller panel is best viewed with monitor screen settings of 1024 x 768 or 800 x 600. Other screen settings may result in a distorted view or lost switch legends.

E-3 REVISED CONSTANTS IN TABLE 6-2

Revised STOPend constant and added EOSend constant to Table 6-2

STOPend	A Termination constant that stops a read when EOI is detected. Value is 0x0100 HEX.
EOSend	A Termination constant that stops a read when a EOS character is detected. Value is 0x0 to 0xFF HEX.

E-4 RECEIVE COMMAND

Revised termination parameter definition to add terminate when EOS and/or EOI detected.

Parameters: **board** is an integer which identifies the GPIB board to be used for this operation. **address** is an integer representing the GPIB address of the device that is to be read from. **data** is the string which will receive the data. In BASIC, it is important that you allocate a large enough string to accommodate all of the data. **count** specifies the maximum number of data bytes which are to be read. This parameter is not required in BASIC, since **count** will be set to the string length of the data. **termination** is the flag used to signal the end of data. If **termination** is set to the value of the EOS character, defined as the **EOSend** constant, then the read will be stopped when the corresponding ASCII character is detected. If **termination** equals the **STOPend** constant (A constant defined in the header file.), then the read will be stopped when EOI is detected. if **termination** = **STOPend** + **EOSend** constants, then the read will be terminated when the EOS character or the EOI is detected.