

## GERBER EDGE<sup>®</sup> USB-to-Parallel Option Kit

The USB-to-Parallel Option kit is a possible solution to connect your GERBER EDGE or EDGE 2 to OMEGA<sup>™</sup> 2.5.1 or higher using a custom USB-to-Parallel cable.



*Note: Not all USB ports have the capabilities to drive the GERBER EDGE 2. This option may require the purchase of a third-part PCI or PCMCIA USB card (especially if you are using a laptop computer), to connect to the GERBER EDGE/EDGE 2.*

This option is compatible with:

- ◆ GERBER EDGE
- ◆ GERBER EDGE 2
- ◆ OMEGA 2.5.1 or higher
- ◆ Windows 2000 or Windows XP
- ◆ CD-ROM drive is required for installation

### Kit Contents

- ◆ Gerber custom USB-to-Parallel Cable
- ◆ Installation instructions (An electronic version of the installation instructions is located on the CD and can be accessed by browsing the CD.)
- ◆ USB-to-Parallel Installation CD which installs the USB Driver (version 2.0) that is composed of the following files:
  - ◆ GSPUSBXP.inf
  - ◆ GSPUSBXP.sys

### Requirements and Limitations



*Note: You must have Administrative privileges to install the Gerber USB-to-Parallel driver on your system.*

After extensive testing, GSP<sup>®</sup> has found that some USB ports (especially on laptop computers) do not have the capabilities to communicate with the GERBER EDGE/EDGE 2. If your computer has any of the following difficulties, we recommend installing a powered USB card which can be purchased at local computer stores or on-line.

- ◆ Windows Fatal Exception Error Blue Screen
- ◆ Data Error 3 when attempting to print to the GERBER EDGE/EDGE 2
- ◆ GQMgr has communication errors when attempting to print
- ◆ Pausing the GERBER EDGE/EDGE 2 causes a data error when attempting to resume the job

If you experience any of these problems you must purchase a powered USB card in order to communicate with the GERBER EDGE/EDGE 2 via USB-to-Parallel cable.

- ◆ Laptop computers require: externally powered PCMCIA card with 2 USB ports
- ◆ Desktop computers require: PCI card with 2 USB ports



Tip: Gerber has had success with the following USB cards. You may have success with other manufacturer's cards.

Belkin® USB 2.0 PCI card  
 Adaptec® USB2connect 2000  
 CompUSA® 2 Port USB 2.0 PCI Expansion Card  
 Compaq® 2 Port USB 2.0 PCI Host Card

## GERBER EDGE and Third-party USB-to-Parallel Cables

GERBER EDGE 2 is **NOT** compatible with third-party USB-to-Parallel cables and is only tested and supported with the custom Gerber USB-to-Parallel cable included in this kit.

The GERBER EDGE **MAY** be compatible with third-party USB-to-Parallel cables available from local computer stores. See instruction for installing a third-party cable for a GERBER EDGE in a separate document.

If you are using a third-party USB-to-Parallel cable and OMEGA 2.5 or older, GQ Manager requires an update to enable the USB port option. The update is available from the GSP website:

[www.gspinc.com/support/downloads/software.html](http://www.gspinc.com/support/downloads/software.html)

## Connecting the GERBER EDGE/EDGE 2 via the Gerber USB-to-Parallel Cable

The following steps summarize the process of installing and connecting the GERBER EDGE/EDGE 2 using the USB-to-Parallel Cable. Detailed instructions follow.

- 1 Insert the USB-to-Parallel Cable Update CD into the CD drive.
- 2 Connect the USB-to-Parallel cable to the GERBER EDGE/EDGE2 and to the computer.
- 3 Use the Found New Hardware Wizard to install the Gerber USB driver located on the USB-to-Parallel Installation CD.



Note: GSP has found that you may have to install the driver twice in order to have Windows accept it. If you get a "Cannot Start this Hardware" message after the initial installation, delete and reinstall the driver as directed in this procedure. Usually after the reinstallation, the driver is accepted.

- 4 Install the GERBER EDGE/EDGE 2 via a USB port.



### To install the Gerber USB-to-Parallel Cable and Driver



Note: You must have Administrative privileges to install the Gerber USB-to-Parallel driver on your system.

- 1 Be sure the GERBER EDGE/EDGE 2 is powered off. Connect the parallel (Centronics) end of the cable into the back of the GERBER EDGE/EDGE 2.

- 2 Connect the USB end of the cable into the USB port of your computer. Windows should detect the new device and display the “Found new hardware: USB device” message on the Windows task bar.
- 3 When Windows displays the Found New Hardware Wizard, select “No, not at this time” (for Windows XP only) and then click Next.

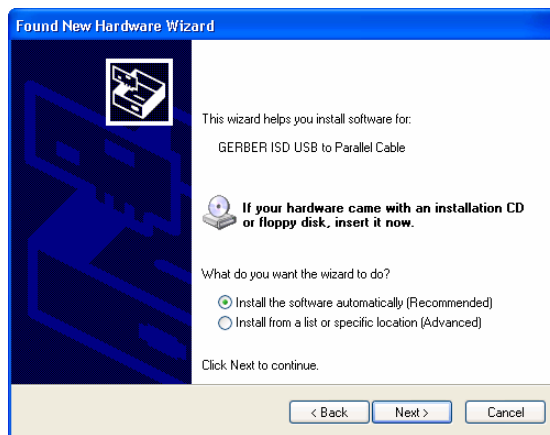


Windows XP

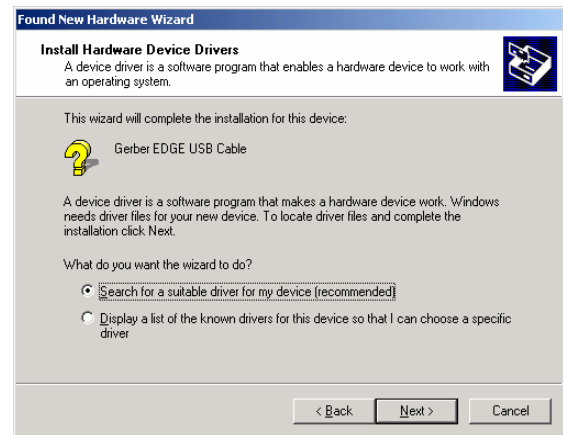


Windows 2000

- 4 When the following dialog box displays, insert the USB-to-Parallel Installation CD into the CD drive of your computer. Select the option shown in the following illustrations and click Next.

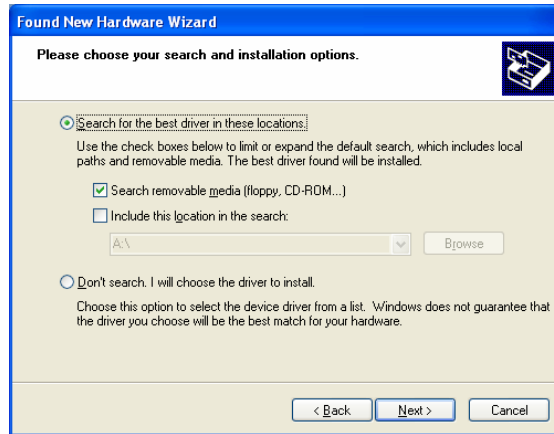


Windows XP

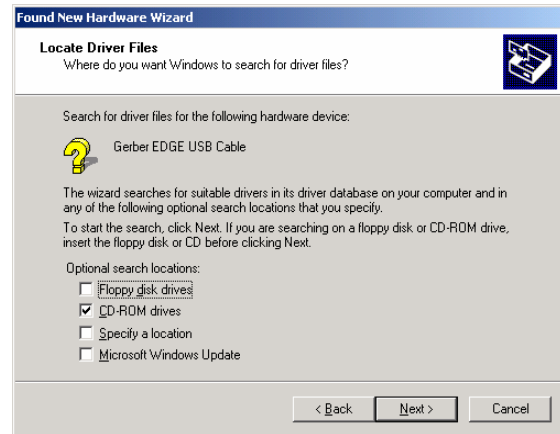


Windows 2000

- 5 When the following dialog box displays, turn on “Search removable media (floppy CD-ROM...)” or “Optional search locations: CD-ROM drives” and click Next.



Windows XP

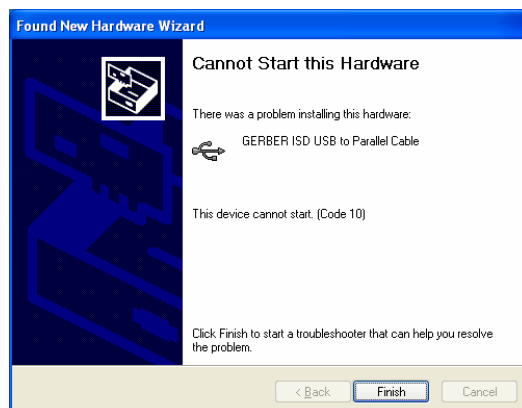


Windows 2000

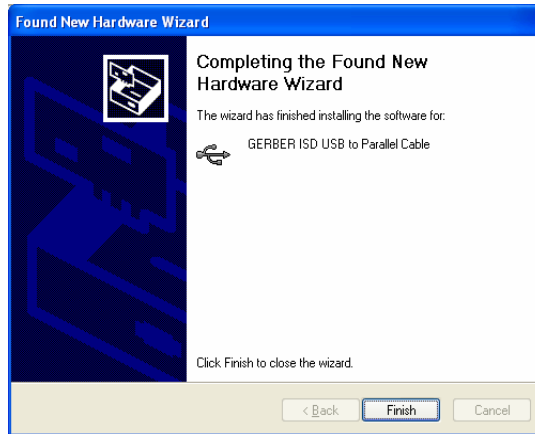
- 6 When the Windows XP Wizard locates the driver on the CD, the following Hardware Installation warning displays. Click “Continue Anyway.”



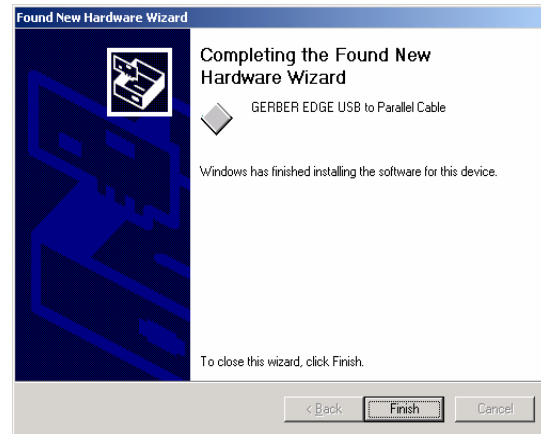
- 7 The first time you install you may see one of the following screens: “Cannot Start this Hardware” error message or the “Welcome to the Found New Hardware Wizard,” click Finish or Cancel.



- 8 If you see one of the previous dialog boxes, you will need delete the driver and reinstall it through Control Panel as described in the following procedure. If the installation was successful, one of the following dialog boxes displays and you can click Finish to close the Wizard. Driver installation is complete.



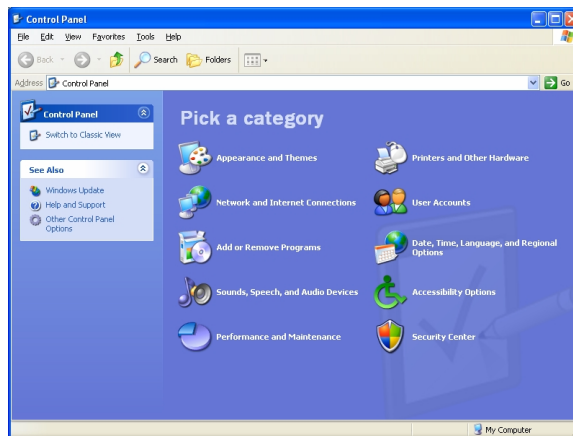
Windows XP



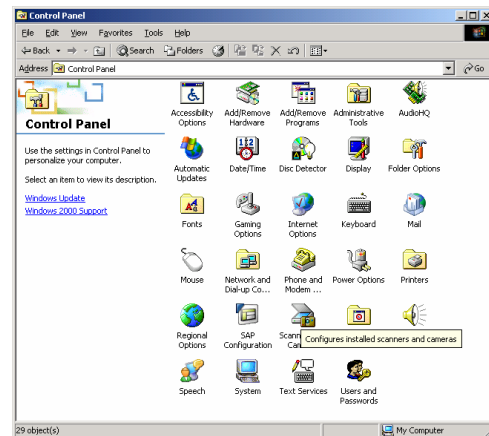
Windows 2000

## ➔ To delete and reinstall the USB-to-Parallel driver

- 1 Click Start > Control Panel to display one of the following dialog boxes.

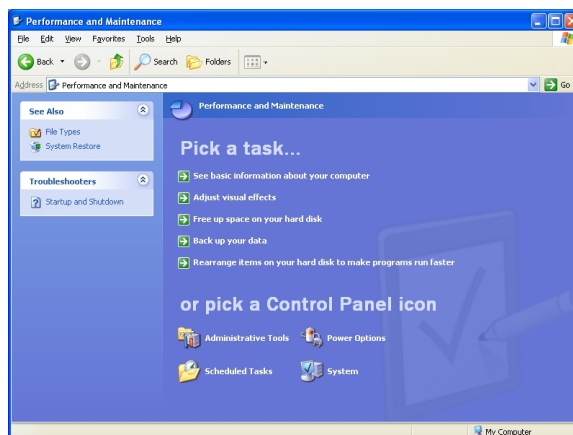


Windows XP

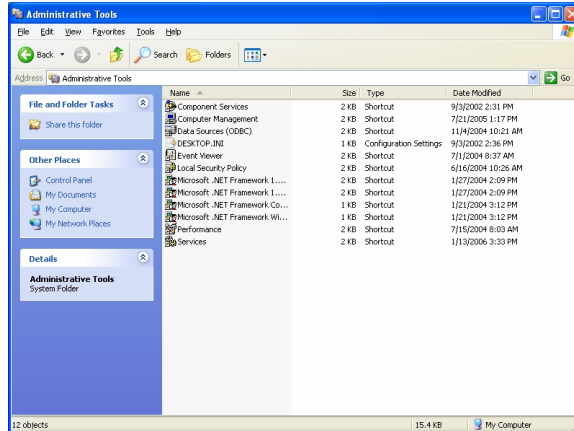


Windows 2000

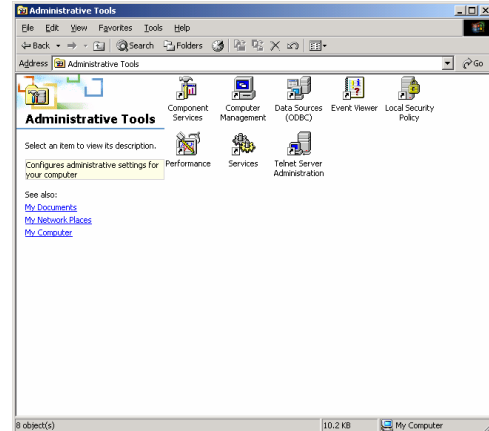
- 2 For Windows XP, click the Performance and Maintenance icon to display the following dialog box. For Windows 2000, go to step 3.



- 3 Click the Administrative Tools icon to display one of the following dialog boxes.

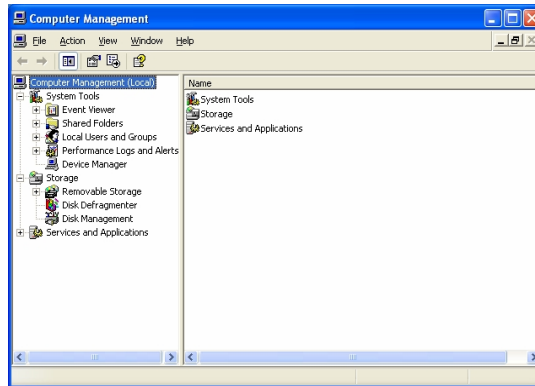


Windows XP

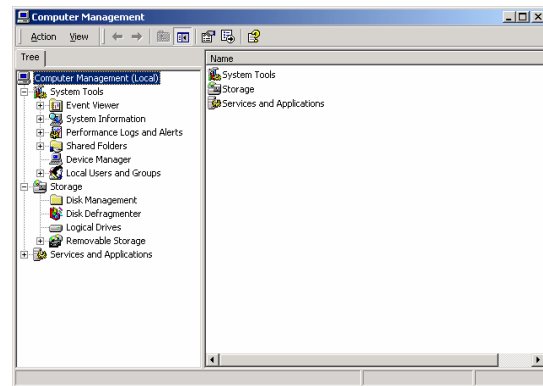


Windows 2000

- 4 Double-click Computer Management to display one of the following dialog boxes.



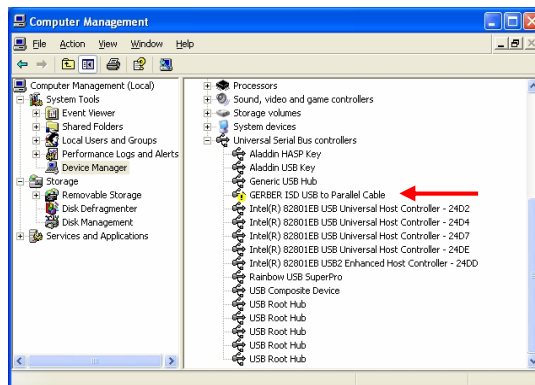
Windows XP



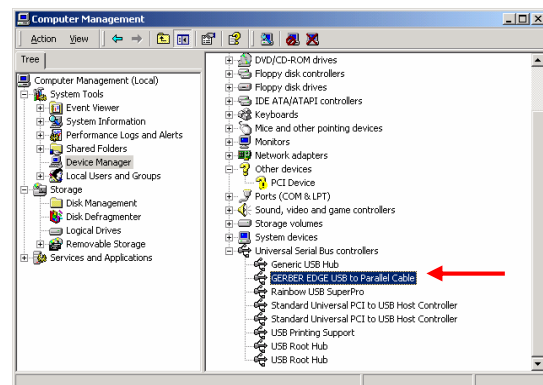
Windows 2000

- 5 In the left pane, select Device Manager. In the right pane, scroll down to the bottom of the window. The Universal Serial Bus controllers node should be open, and the problem device should be identified by an exclamation mark in a yellow circle as shown in the Windows XP illustration.

If the driver was successfully installed it will appear as shown in the following Windows 2000 illustration. There is no need to reinstall the driver.



Windows XP

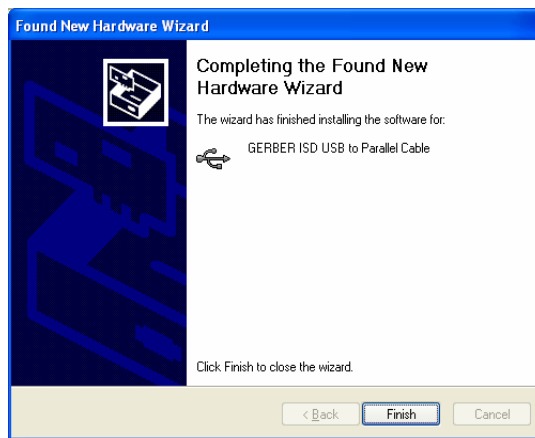


Windows 2000

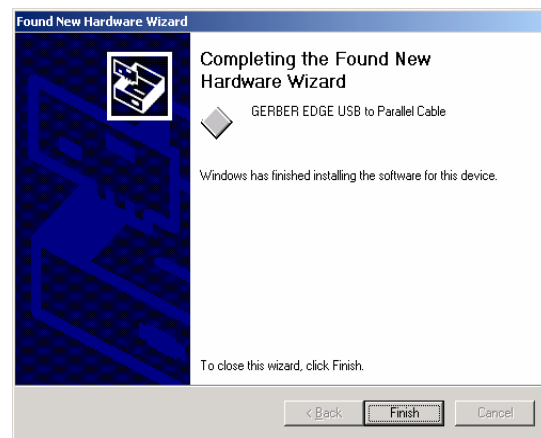
- 6 Select the device: **GERBER USB to Parallel Cable** (with the yellow exclamation mark) and press Delete on the keyboard. When the uninstall message displays, click OK.



- 7 In the Computer Management dialog box, click Action > Scan for Hardware Changes to display the Found New Hardware Wizard again. Repeat the driver installation process from the previous procedure. This time the installation should succeed and the following message displays.



Windows XP



Windows 2000

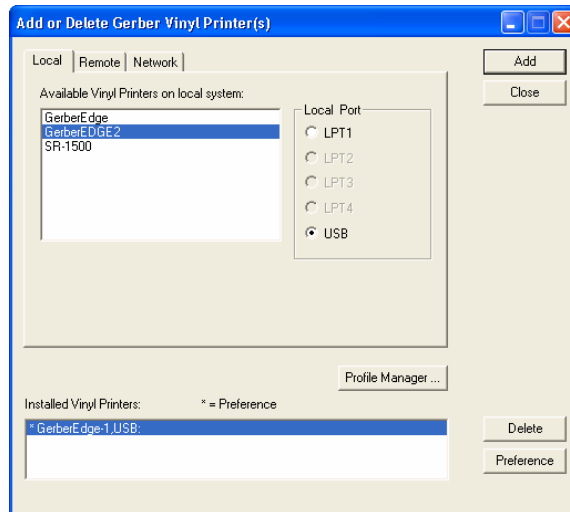
- 8 The Windows task bar notification area should display “Found New Hardware: Your new hardware is installed and ready to use.”
- 9 Close the Computer Management and Administrative Tools windows if they are still open.

## Installing the GERBER EDGE/EDGE 2 as a USB printer

Install the GERBER EDGE/EDGE 2 as a USB device via GSPTray or GQ Manager.

### ➤ To install the GERBER EDGE/EDGE 2 as a USB printer

- 1 Open the Add or Delete Vinyl Printer(s) using one of the following techniques:
  - ◆ Click Start > Programs > GSP OMEGA > GQ Mgr to open the GQ Manager dialog box. Click Install and choose Vinyl Printer. The Local tab displays.
  - ◆ Right-click the GSPTray icon that is found on the bottom right of your Windows task bar and choose Install Vinyl Printer. The Local tab displays.



- 2 Choose a GERBER EDGE or GERBER EDGE 2 and click USB for the Local Port.
- 3 Click Add to open the Add - Name Device dialog box.



- 4 Accept the default name or enter your own description for the device. The description appears in the output dialog boxes. Click OK. The name of the new printer will appear in the Installed Printer(s) field of the Add or Delete Gerber Vinyl Printer(s) dialog box.
- 5 Close the Add or Delete Gerber Vinyl Printer(s) dialog box.

## Errors and Possible Solutions

If you encounter a Data Error 3 when sending the first job to the GERBER EDGE do the following:

- ◆ Abort the job at the GERBER EDGE by pressing **RESET** on the printer control panel. Printing will pause and the display will ask you to **CONFIRM RESET**. If you press **RESET** again, the job aborts and the printer returns to **OFFLINE**. It may require more than one **RESET** to clear the job.
- ◆ Delete the job from GQ Manager by selecting the job and clicking **Terminate**.
- ◆ Occasionally you may have to cycle the power on the GERBER EDGE to restore normal communications.

Stacking multiple jobs in GQ Manager can sporadically cause GQ Manager to freeze. You may have to close and restart the program to continue.