

GSC400 Programmer Manual



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Getting Started.

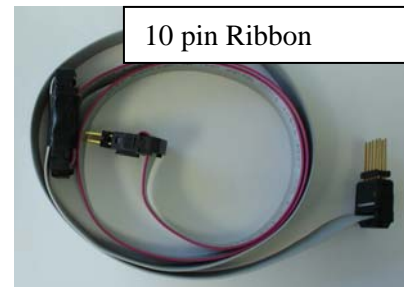
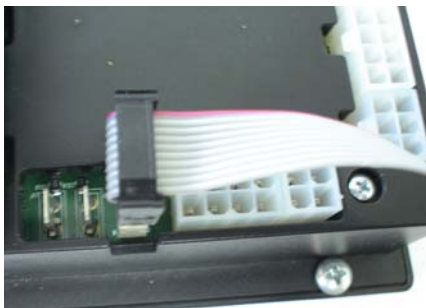
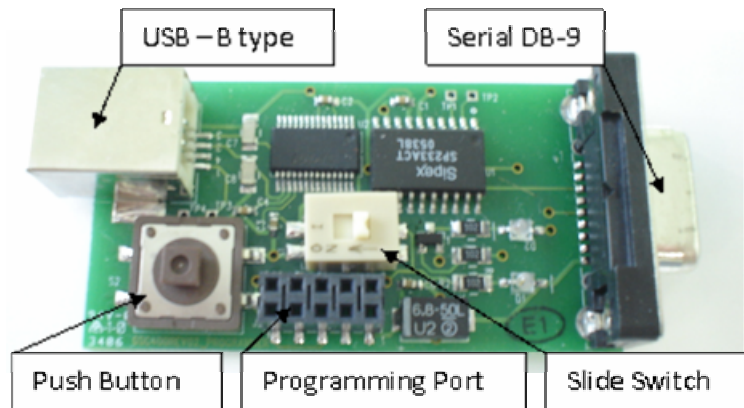
Your package should include the following:

1. GSC400 Programmer
2. 10 pin ribbon cable female-to-female
3. Two male-to-male 10pin headers
4. USB printer cable
5. Serial DB-9 cable
6. Installation CD

The GSC400 programming board consists of a USB-B type connector (the one usually found on printers, not the more common A-type connector that you plug into your computer), a serial DB-9 female cable, a programmer port, one push button, and one slide switch.

The USB and serial cables are used to connect the GSC400 programmer to the computer. Both are provided as a convenience and only one should be connected to the board.

The 10 pin ribbon cable plugs into the programming port, red stripe facing the push button. The other end of the ribbon cable plugs into the controller with the red stripe facing the center of the unit. The two 10 pin male-to-male headers plug into the ribbon cable as shown in the diagram.



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Installing the USB Serial Port Driver

(Vista, Windows XP, 2000).

To use a USB cable to connect to the GSC400 programmer you must install the USB serial driver. This will allow you to communicate over USB by selecting a serial port. If you are using a serial cable you can skip this section.

1. If the GSC400 programmer is connected to the computer disconnect the programmer from the computer.
2. On the installation CD go to the “USB Drivers/Vista, XP, 2000, Server 2003”
3. Double click on “CDM_Setup.exe”.
4. The program will extract the drivers.
5. Connect the USB cable. Windows will find the hardware and install the drivers automatically. The default comm. port for USB is usually com5. To change or confirm this, see below.

(Vista x64, Windows XP Professional x64, Windows Server 2003 x64)

1. If the GSC400 programmer is connected to the computer disconnect the programmer from the computer.
2. On the installation CD go to the “USB Drivers/ x64 - Vista, XP, Server 2003”
3. Double click on “CDM_x64_Setup.exe”.
4. The program will extract the drivers.
5. Connect the USB cable. Windows will find the hardware and install the drivers automatically. The default comm. port for USB is usually com5. To change or confirm this, see below.

(Windows 98, Windows ME)

1. If the GSC400 programmer is connected to the computer disconnect the programmer from the computer.
2. On the installation CD go to the “USB Drivers/ Win98, Win ME”
3. In the same folder open “Windows_98_Installation_Guide.pdf”. Go to page 8 and follow the instructions under “Installing VCP Drivers” with the following exceptions: The unzipped drivers are located in the “USB Drivers/ Win98, Win ME R10906” folder. You do not need to download them.

Uninstalling the USB Serial Port Driver (Vista, Windows XP, 2000, 98, ME)

1. **(For Win. XP only): A recent security update from Microsoft has prevented the FTDI Uninstaller from running. Go to “C:// Windows/System32”. Right click on “ftdiunin.exe” and click on the “Capability” tab. Check “Run this program in compatibility mode for” and select Windows 2000.**

2. Disconnect the GSC400 Programmer from the computer.
3. Go to the Control Panel in the Start menu. Double click on “Add and Remove Programs”.
4. Scroll down to “FTDI USB Serial Converter Drivers” and click “Change/Remove”.
5. The FTDI Uninstaller window will appear. Follow the instructions.

Changing the USB Serial Port (Vista, Windows XP, 2000).

1. Click on the Start Menu at the bottom left hand corner of your screen and right click on “My Computer”. Click properties at the bottom of the list. Select the Hardware tab and under the “Device Manager” section click the “Device Manager” button.
2. The Device Manager window will appear.
3. Scroll down to “Ports (COM & LPT)”. Expand and you should see “USB Serial Port”. Right click and select “Properties” at the bottom of the list.
4. A dialog box “USB Serial Port Properties” will appear. Click on the “Port Settings” tab. Click the “Advanced” button and a window will appear allowing you to change the comm. port at the top left hand corner of the window. Select the appropriate comm. port and then click OK at the right. Not that some comm. ports may be in use. This will be indicated by “(in use)” beside the comm. port. Sometimes a comm. port may be indicated in use even when it is not so. Make sure that no connected device is using the com. Port before making your selection.
5. Click “OK” button on the “USB Serial Port settings” Then close the “Device Manager” window.
6. You will now be able to use the comm. port you selected to communicate to the GSC400 Programmer via USB.

Setting up the Programmer to Update Settings.

1. Make sure power to the controller is off. Connect the GSC400 Programmer to the computer using a serial or USB cable.
2. Connect one end of the 10pin ribbon cable to the controller, red side facing towards the center of the controller. Connect the other end of the 10pin ribbon cable to the GSC400 programmer with the red side of the cable facing the push button. You will need to attach the two enclosed female to female 10pin headers to both ends of the cable.
3. Make sure that the slide switch on the GSC400 Programmer is in the off position. The on position is indicated on the switch. Power up the controller. The controller display should be on.
4. You can now communicate with the controller via the PC.