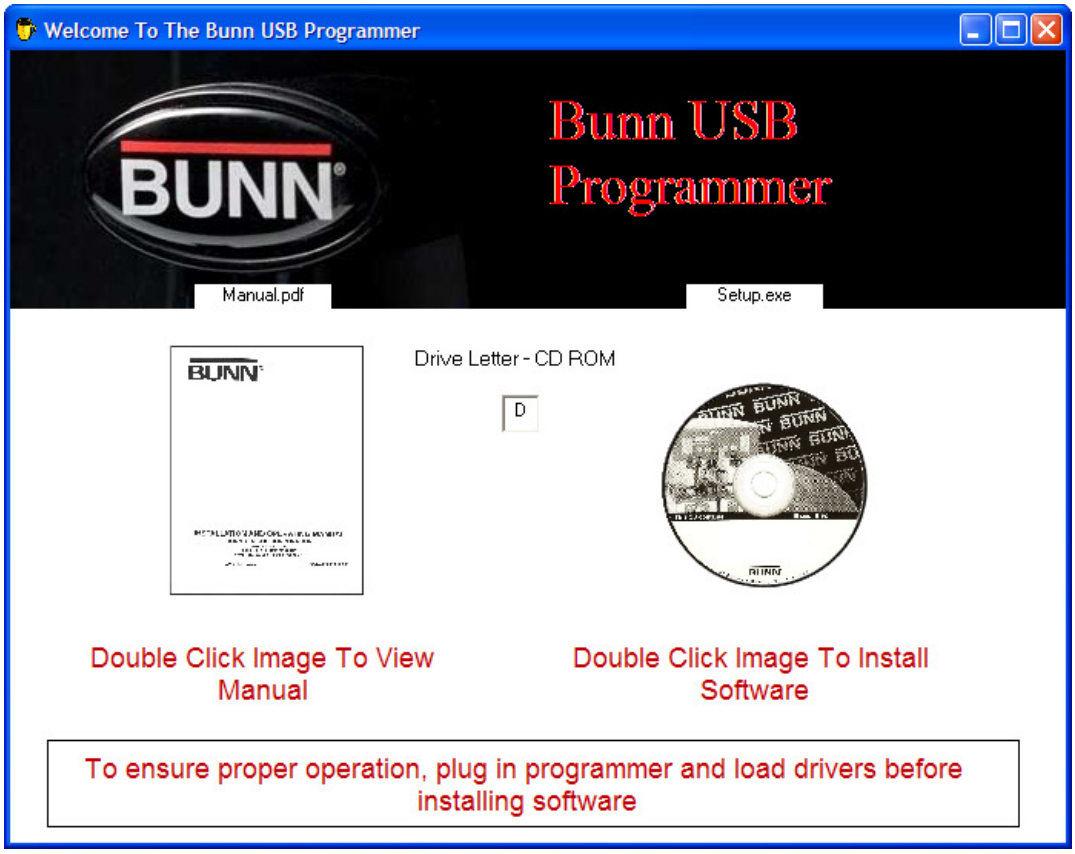
Setting up the Bunn USB Programmer and software

Start by inserting the supplied CD into the CD ROM drive of the host computer. If autorun is enabled, the CD should start automatically and display the following screen:



You may double-click the Manual graphic to view the manual or double-click the CD graphic to begin the software installation. Note: USB drivers must be installed prior to using the USB Programmer software. It is recommended that this screen be minimized at this time and restored after the installation of the USB drivers (see below). If autorun is not enabled on the host computer, navigate to the following files using Windows Explorer in order to set up your Bunn USB Programmer:

Manual. PDF
- Owners manual for the Bunn Programmer and software.

Setup.exe
- Installation program for the Bunn USB Programmer.

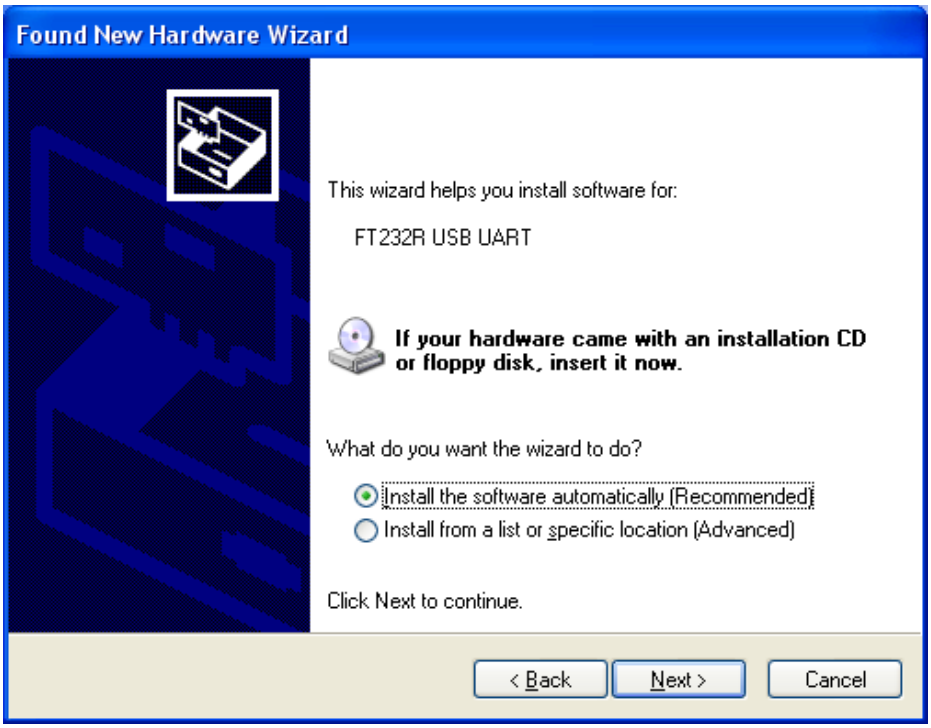
“CDM 2.02.04 WHQL Certified” folder
- Folder containing the USB driver for the Programmer hardware.

Installing Drivers for Bunn USB Programmer

Before the USB Programmer software will work correctly, the USB drivers must be installed for the programmer hardware.

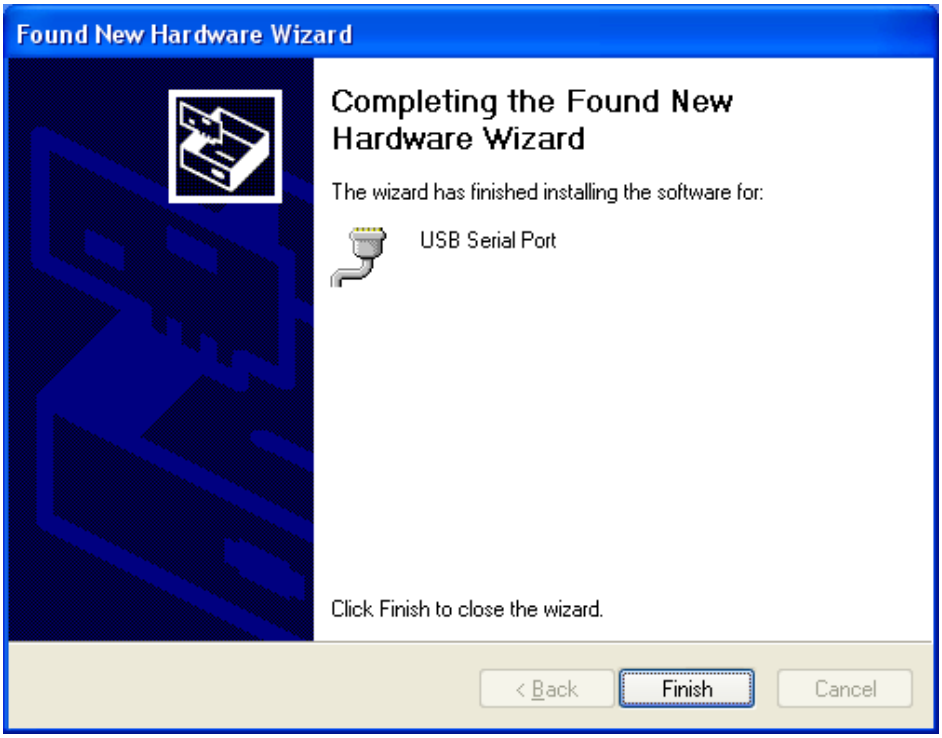
Begin driver installation by plugging in the USB programmer. The “Found New Hardware” wizard should appear automatically.

The “Found New Hardware” wizard should ask if your hardware came with a CD and if you want to install the software automatically. In most cases, this is the recommended way to install the drivers.



If asked to select the driver location manually, select the "CDM 2.02.04 WHQL Certified" folder on the CD as the driver location.

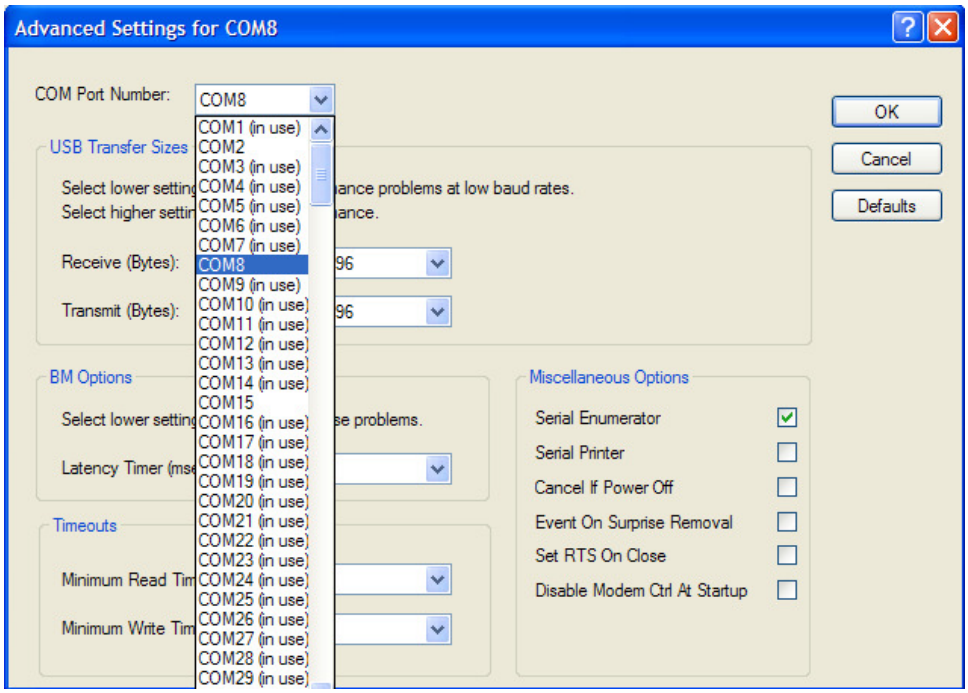
The driver installation is a two part process. First, the USB Serial Converter driver is installed. Then, immediately after that driver is installed, the Virtual Com Port Driver is installed. No user interaction is required in order to initiate the installation of the second driver, but it is important to allow the second driver to complete it's installation in order to insure proper operation of the program.



Note: In instances where several com ports are in use on the host computer, it is possible that the USB serial port will install with a comport number greater than 16. In order for the USB Programmer software to work properly, the comport number must be 16 or lower. The number can be changed by navigating to the advanced port settings properties in the following manner:

Control Panel -> System -> Hardware tab -> Device Manager button -> double-click Ports (COM & LPT) -> double-click USB Serial Port -> Port Settings tab -> Advanced button.

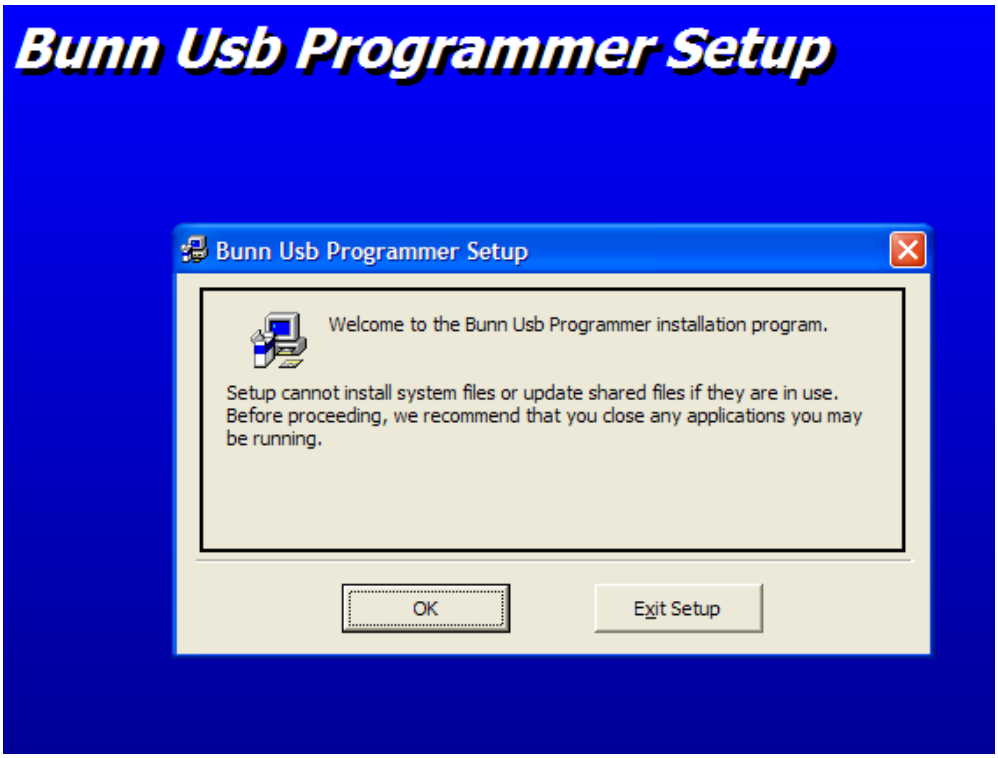
Clicking the drop-down arrow related to the COM Port Number should reproduce a screen similar to the one below:



Select one of the choices not marked (in use). If no choices are available, it is suggested that you contact an IT professional for help in selecting an available port. It is very unlikely that comports 1-16 will all be in use.

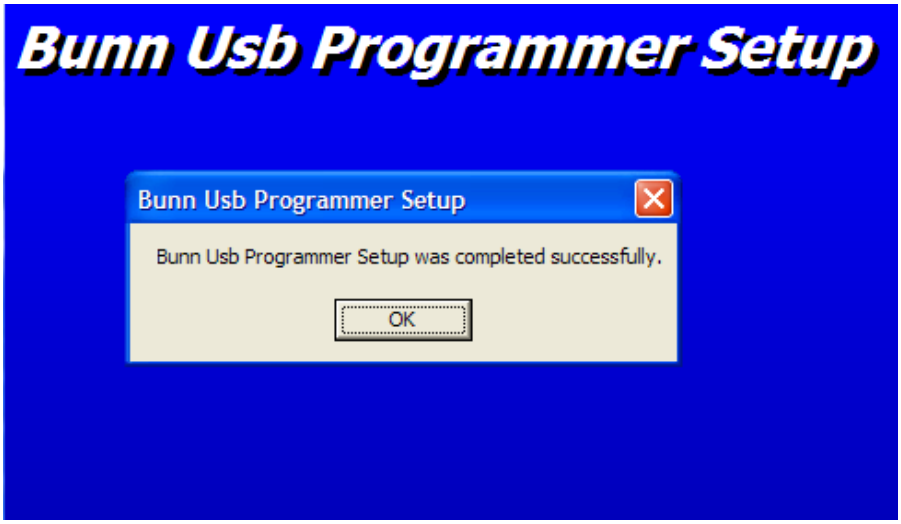
Installing the Bunn USB Programmer software

Either double-click the CD image on the welcome screen if one appeared after inserting the CD or navigate to the Setup.exe file on the supplied CD using Windows Explorer and double-click setup.exe. A “Copying Files” window will appear momentarily, then the following screen will appear:



Click “OK” or press “Enter” to continue. Note: To install the USB Programmer to its default location, just press “Enter” every time the installation program prompts with a question. This is the easiest and fastest way to install the program.

At the end of the installation, the following screen should appear, indicating that installation was successful:



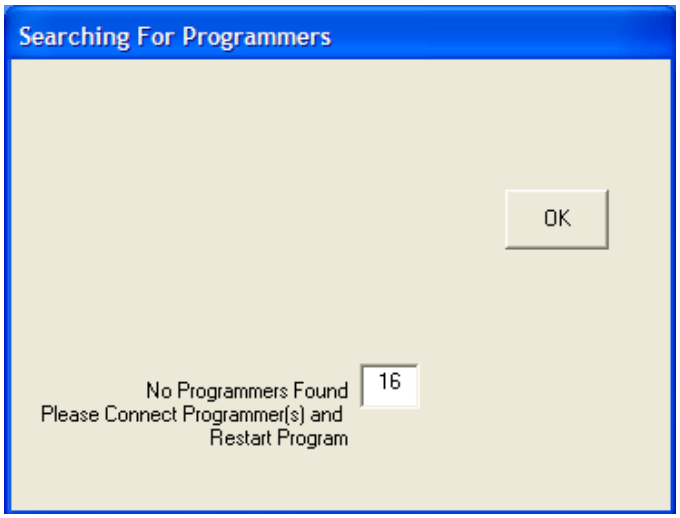
Using the Bunn USB Programmer software

Plug the USB programmer into an available USB port on the host computer. Allow a few seconds for all 3 LED's to begin flashing on the programmer.

Start the USB Programmer software from the Start menu by clicking the "BunnUsbProgrammer" program in the "BunnUsbProgrammer" group under All Programs.

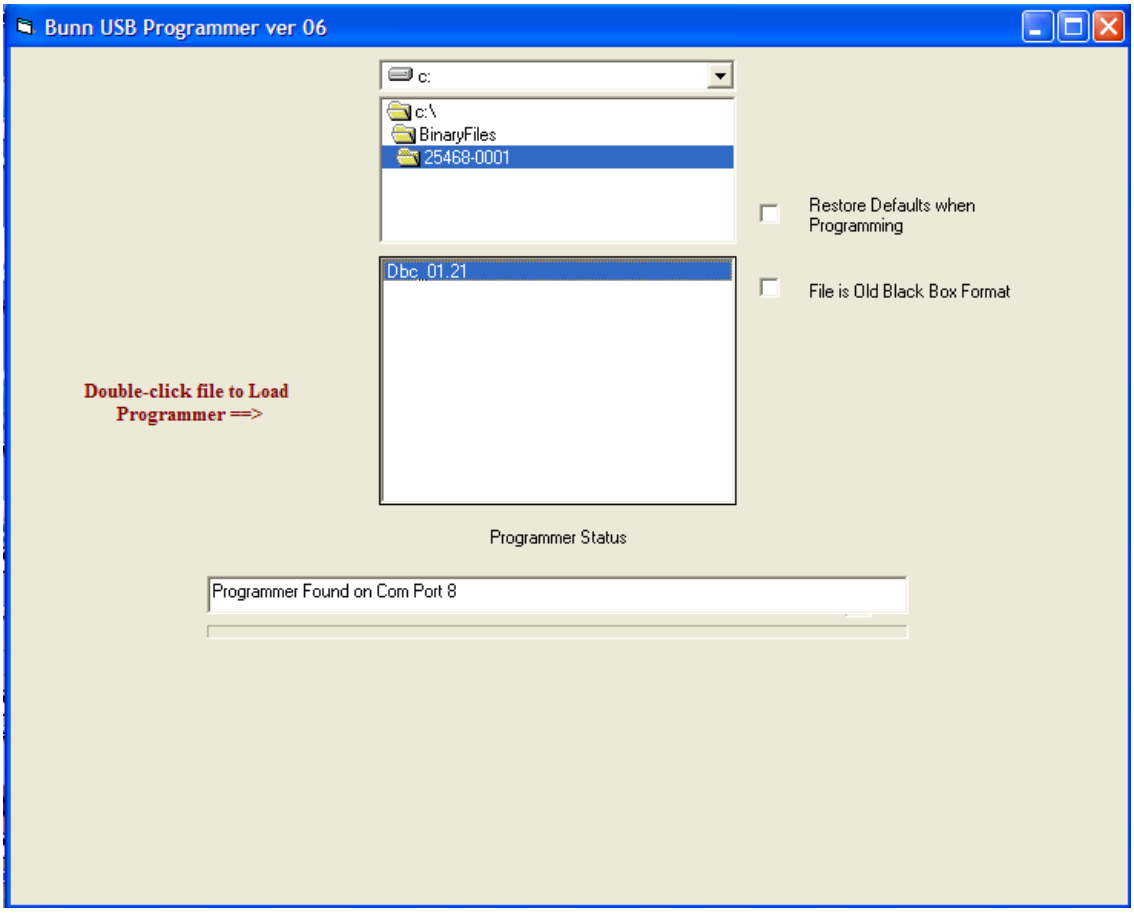
A screen will pop up momentarily indicating that the program is searching for the proper hardware.

In the event no programmer is found, the following screen will appear:

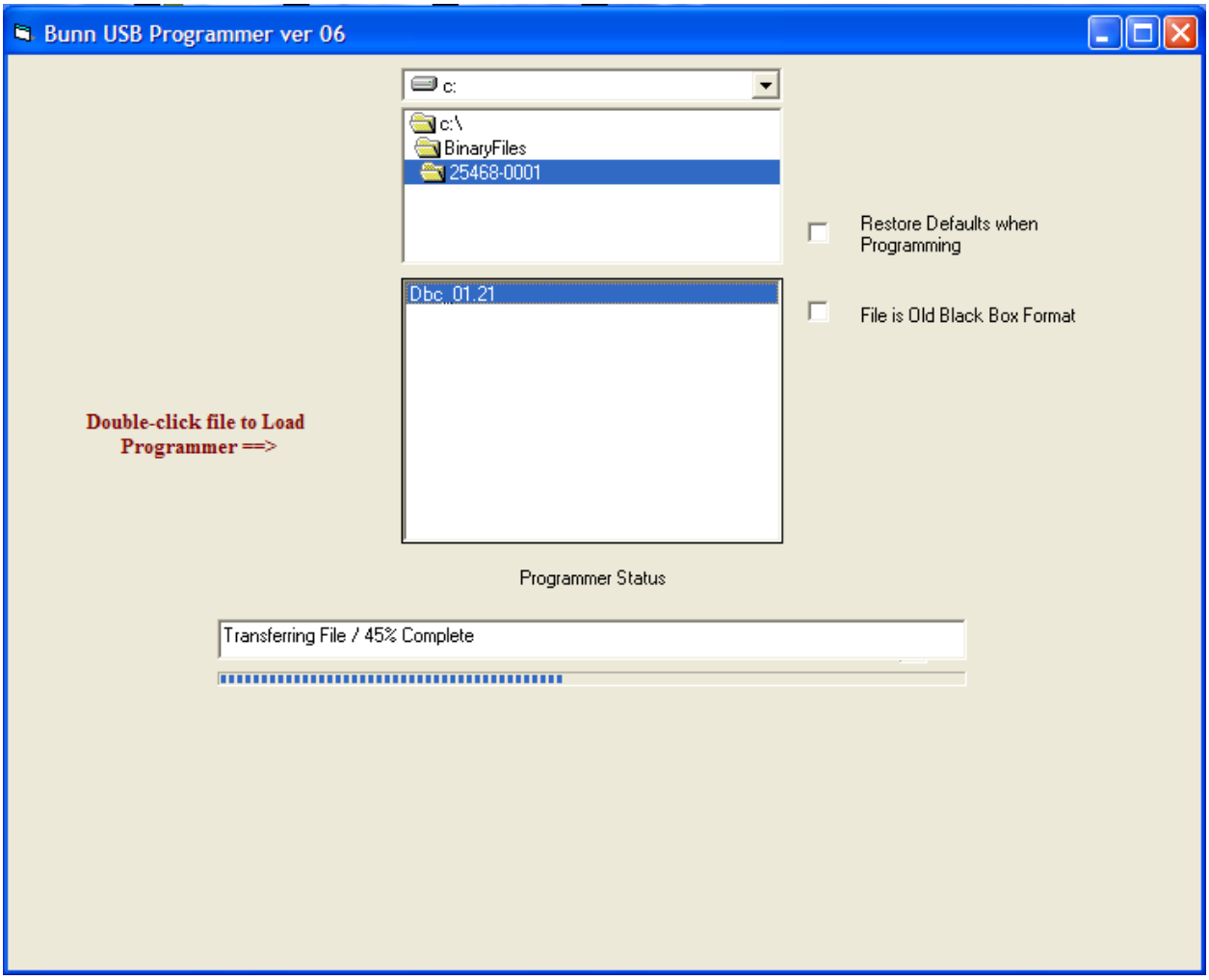


If this screen appears, make sure the programmer is properly connected and the drivers have been installed (see the "Installing Drivers" section at the beginning of this manual).

When the correct hardware is found, the following screen will appear:



Use the drive selector and file list box to navigate to the desired software file. Double-click on the file, and the transfer process should begin.



When the file transfer is complete, the status box above the progress bar should say "File Loaded OK", and the 3 LED's on the programmer should be flashing red – yellow – green to indicate a successful transfer. In the event of an error, all 3 LED's will flash at the same time on the programmer and the status box should indicate the nature of the error. Retry the file transfer if an error occurs. If the error persists, contact Bunn-O-Matic for further assistance.

Additional Software Features

Restore Defaults
Leave this checkbox unchecked if you want to retain all of the machine's setup parameters. Check this box before double-clicking the software file if you want the machine to have all default factory parameters after the programming operation is finished.

File is Old Black Box format
In the event you receive an "Old Black Box Format" error, you may be trying to transfer a file that is incompatible with the USB Programmer. It may still be possible to transfer the file using the USB Programmer by obtaining a special helper file from Bunn-O-Matic. Contact Bunn-O-Matic should you encounter this error.

Programming the Machine

Once the software file has been transferred to the programmer, the programmer can be disconnected from the PC and taken to the location of the machine to be re-programmed. Re-programming is initiated by simply plugging the programmer into the correct circuit board location and allowing the programmer to complete its process. Note: For safety reasons, it is recommended that the machine be powered down prior to connecting the programmer, and then powered up to initiate the programming process. In the event that this is not possible, the programmer is designed to be hot-swappable.

The programming process has 3 stages which are indicated by the LED's on the programmer.

Programming – The red light will be flashing on the programmer during this time.
Verifying – The yellow light will be flashing on the programmer during this time.
Pass/Fail – A successful transfer is indicated by a flashing green LED. A failed transfer is indicated by the flashing of all 3 LED's at the same time. Should a programming failure be encountered, the type of failure will be indicated by the number of LED flashes between pauses. Counting the number of flashes may help diagnose the nature of the problem when contacting Bunn-O-Matic for assistance.

A successful programming session will typically last less than 3 minutes with most transfers being significantly shorter. Software file size and programming cable length will affect the time required to transfer a software file.

After the programming session is complete, verify that the desired software version shows on the display when the machine is powered up (not applicable for machine without alphanumeric readout).