

**MPLAB® IDE**  
**USB Device Driver**  
***First Time Installation***  
**For Windows® 7 64 OS**

To use the development tools below with USB communications, the following steps **MUST** be taken in order to properly install the device drivers. Currently supported development tools are:

- MPLAB REAL ICE™ in-circuit emulator
- MPLAB ICE 2000 with USB converter
- MPLAB ICD 2 (P/N 10-00397)
- MPLAB ICD 3
- MPLAB PM3 (P/N 10-00398)
- PIC32MX Starter Kit

## **Before You Begin**

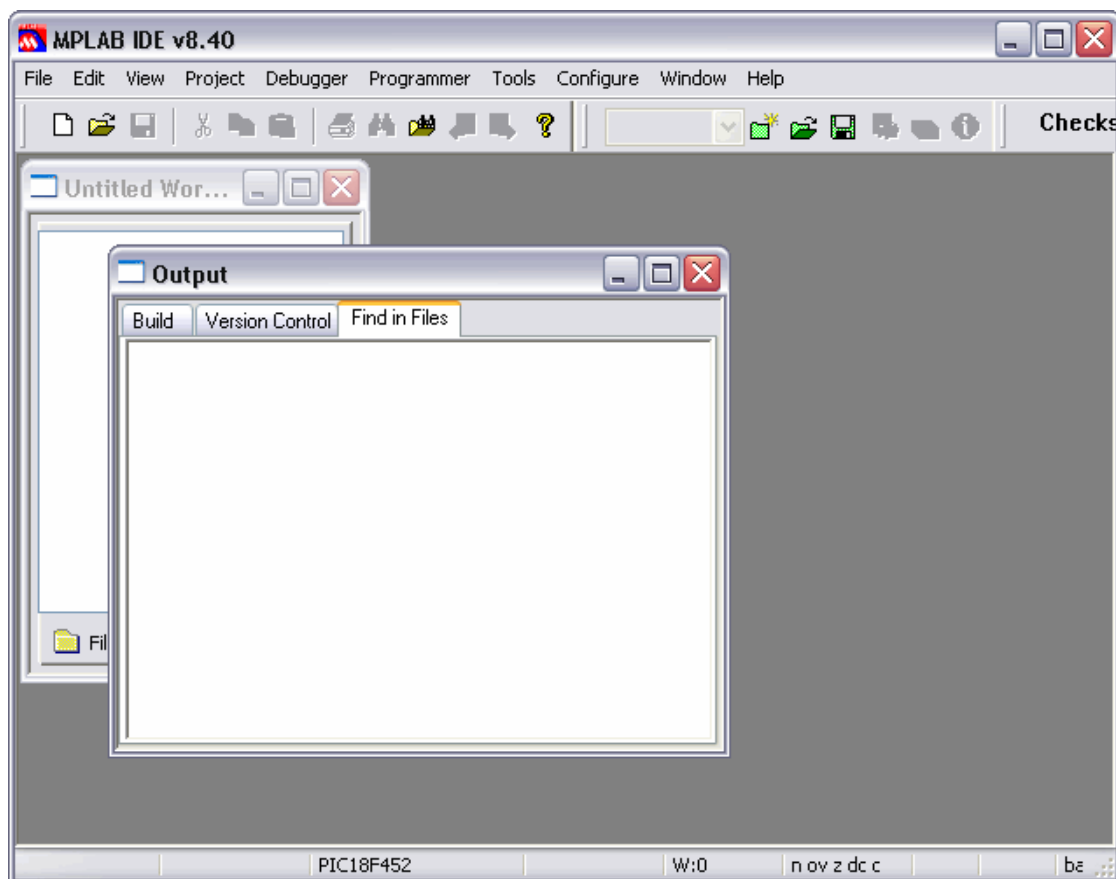
The development tool should NOT be plugged into a USB port, powered, or connected to a target or device socket at this time.

- If you have already plugged the tool into the USB port and the "Found New Hardware Wizard" has popped up, click **Cancel** on that dialog, unplug the tool and continue with these instructions.
- If you have already plugged the tool into the USB port and used the "Found New Hardware Wizard" to install drivers automatically, you have installed the wrong drivers. Follow the instructions specified in the Troubleshooting section at the end of this document.



## Software Preliminaries

Install the latest MPLAB IDE. You can get a free copy of this from our website, [www.microchip.com](http://www.microchip.com), or from your local Microchip sales office on CD-ROM.



## STEP 1

Connect the development tool to the PC with a USB cable. For tools that require power to operate (i.e., are not powered by USB), connect the power supply and turn on the unit.

If you are using an external USB HUB, make sure it has a power supply and is powered or the development tool will not work.



## STEP 2

The first time a new USB device is plugged in, a system tray message balloon will appear indicating that the system has found a new hardware device. The OS will then proceed to automatically install the drivers for you, i.e., no dialogs will pop up, only more system tray messages. A final message will state whether or not the drivers were properly installed.

**Note:** If a Windows 7 Security dialog pops up asking you for permission to continue, click **Yes** or **Continue**.



## STEP 3

Verify that the driver installed by viewing the Device Manager, Custom USB Drivers>Microchip Custom USB Driver.

To open the Device Manager window, select Start>Control Panel>System>Device Manager.

**Note 1:** If you change the PC USB port you are using with your tool, you may need to repeat these installation instructions.

**Note 2:** You will need to repeat these installation instructions to map the drivers to each development tool you wish to use.

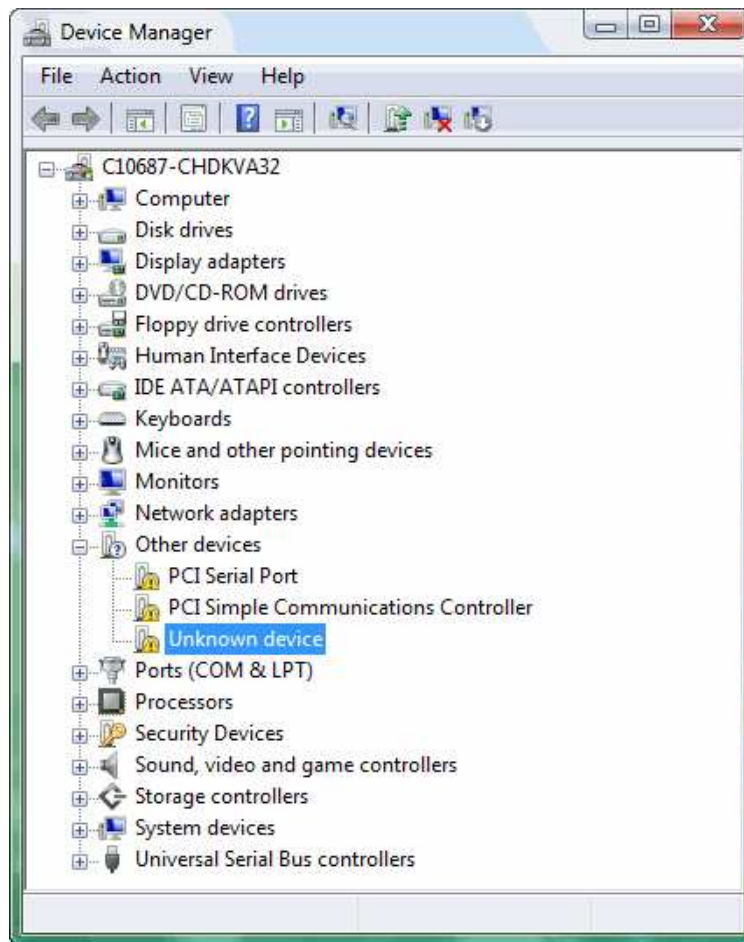
If the drivers did not install correctly, proceed to the Troubleshooting section below. Otherwise, complete the tool setup by referring to the appropriate on-line help file or user's guide.



## Troubleshooting Step 1

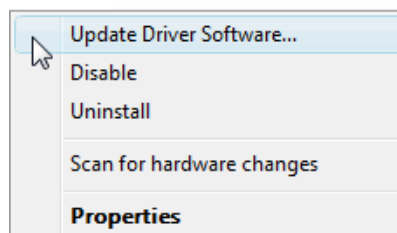
If for some reason the drivers failed to install, follow these steps to resolve the problem.

Windows will attempt to install a driver if it could not find the correct one. In the Device Manager, under "Other devices", you should find "Unknown device".



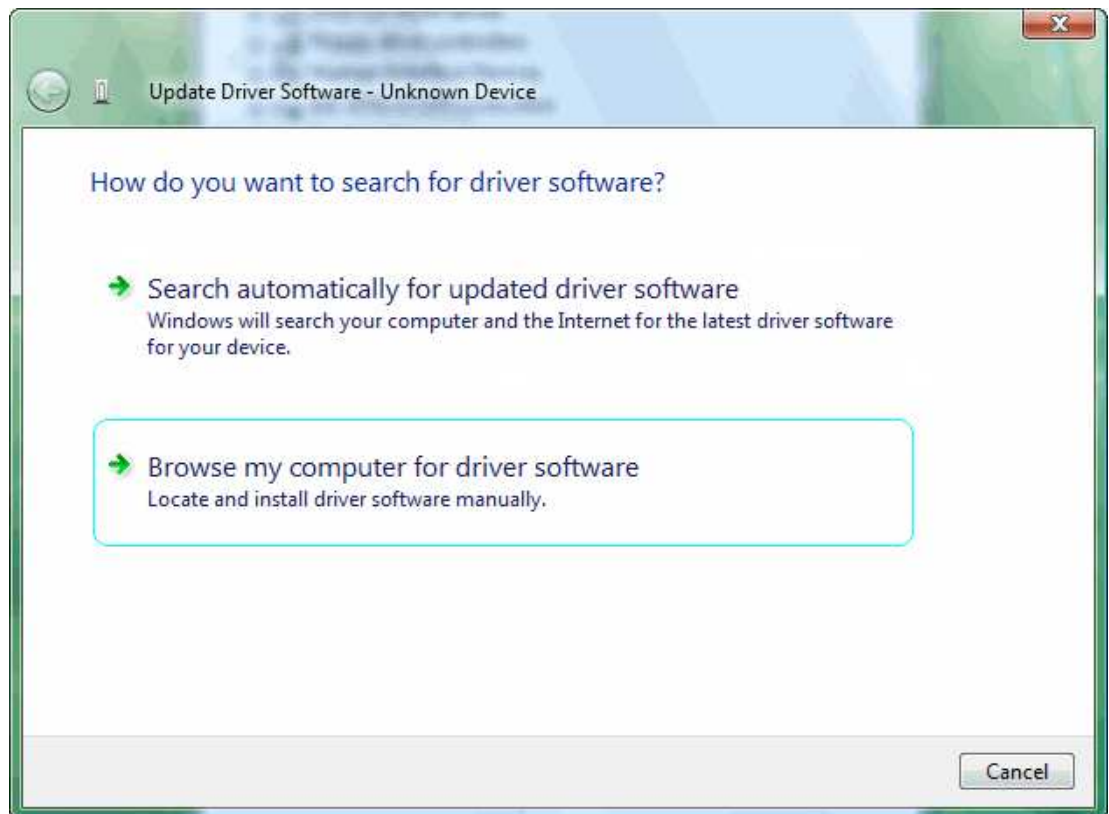
## TS Step 2

Right-click on "Unknown device" and select "Update Driver Software" from the menu.



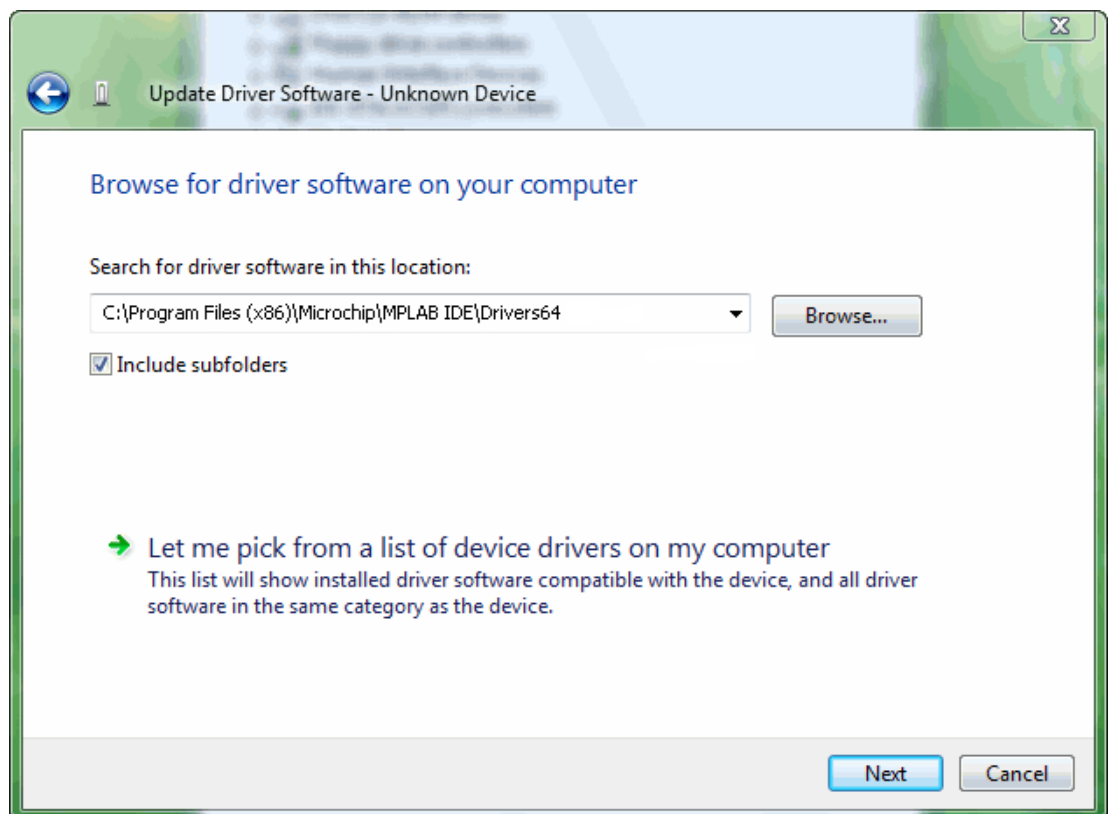
**TS Step 3**

In the first dialog of the "Update Driver Software" Wizard, select "Browse my computer for driver software".

**TS Step 4**

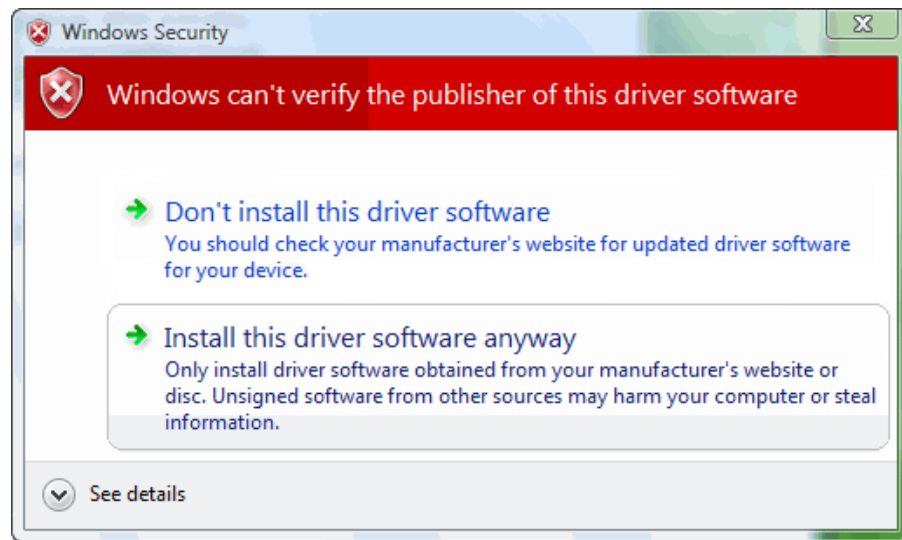
The next dialog will ask you to specify the path to the drivers. Click Browse and find the drivers in the MPLAB IDE installation directory. By default, this would be C:\Program Files (x86)\Microchip\MPLAB IDE\Drivers64.

Click **Next** to continue.



### TS Step 5

The next dialog you should see is for "Windows Security". Select "Install this driver software anyway" to proceed to install the drivers.



### TS Step 6

Finally, you should see that Windows was able to successfully install your drivers. Click **Close** and then check the Device Manager once again as in Step 7.

