# Installing and using PICkitPlus Software
## with
## The Proton IDE Pic Compiler

The simplest method is just pickup the HEX file created when the program is compiled.   This is placed in the same folder as the program is saved into. Open in PicKit 2 or 3 Graphical User Interface for the programmer, select your hex and program the target microcontroller.

**The approach to integrate  PICkitPlus into the Proton IDE.**
The Proton IDE supports the use of a command line programmer. PicKitPlus comes with a command line utility as part of the download.   It has strict parameters on the command line but if you construct the command in Notepad and cut/paste into the IDE dialogs – the software operates as expected and you can also edit with ease.

The Proton IDE has two main variables, $target-device$ and $long-hex-filename$.  Avoid the older $hex-filename$ as this does not support long path and file names.

See the PICkitPlus commandline software User Guide PDF with respect to the Command line compiler for the vast array of options but the following work for me:

PicKit2 (and clones I imagine) programmer:
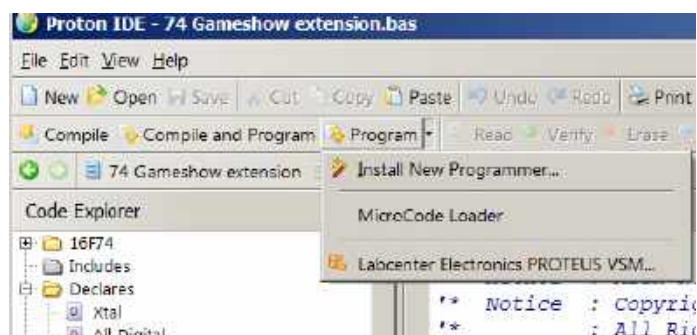-2 -w -pPIC$target-device$ -f$long-hex-filename$ -mpce -zv -dK

PicKit3 (and clones I imagine) programmer
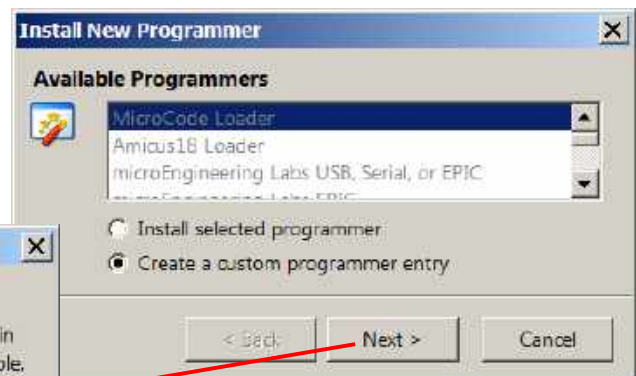-3 -w -pPIC$target-device$ -f$long-hex-filename$ -mpce -zv -dK

Note the Proton IDE supports wait for keypress (-dK) which is very nice so any errors are flagged and displayed.

Setting up the Proton IDE

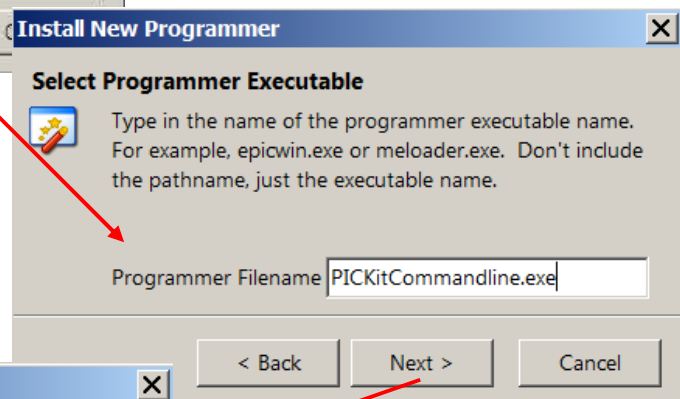Select the down arrow after the word Program then "Install New Program"



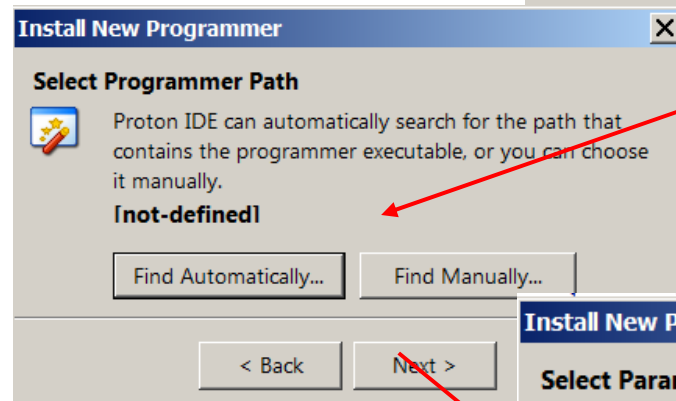Written by Alan Norman and edited by Evan R.Venn Feb 2019

**Install New Programmer**

Available Programmers

MicroCode Loader
Amicus18 Loader
microEngineering Labs USB, Serial, or EPIC

○ Install selected programmer
● Create a custom programmer entry

< Back    Next >    Cancel

Chose the custom option.

Give it a sensible name to identify easily.

**Install New Programmer**

Select Display Name

Type in the name of the programmer to be displayed in the Proton IDE drop down selection boxes. For example, MicroCode Loader. The name is for display purposes only, and can be anything you like.

Display Name : PicKit Plus 2

< Back    Next >

**Install New Programmer**

Select Programmer Executable

Type in the name of the programmer executable name. For example, epicwin.exe or meloader.exe. Don't include the pathname, just the executable name.

Programmer Filename  PICKitCommandline.exe
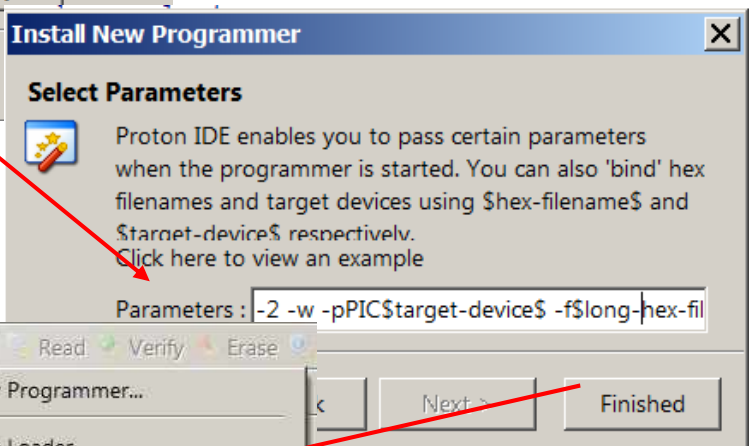
< Back    Next >    Cancel

Check the name in the PicKitPlus installation directory. Copy and paste the name in to avoid spelling errors. Click Find, the automatic is usually fine.
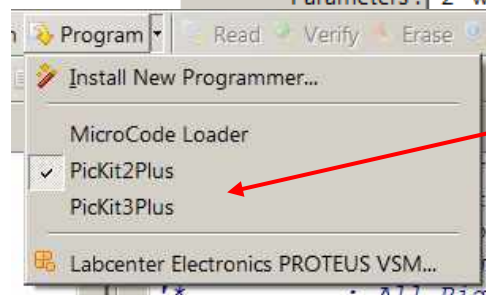
**Install New Programmer**

Select Programmer Path

Proton IDE can automatically search for the path that contains the programmer executable, or you can choose it manually.

**[not-defined]**

Find Automatically...    Find Manually...

< Back    Next >

**Install New Programmer**

Select Parameters

Proton IDE enables you to pass certain parameters when the programmer is started. You can also 'bind' hex filenames and target devices using $hex-filename$ and $target-device$ respectively.
Click here to view an example

Parameters : -2 -w -pPIC$target-device$ -f$long-hex-fil

< Back    Next >    Finished

Finally paste the command line in from an editor like NotePad and then you are done. The programmer now appears in the drop down.

Happy Programming.

Program ▾    Read    Verify    Erase

⚡ Install New Programmer...

MicroCode Loader
✓ PicKit2Plus
PicKit3Plus

Labcenter Electronics PROTEUS VSM...

All trademarks are acknowledged.

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