

BEGINNERS GUIDE TO PIC PROGRAMMING

(KITS 3081, 3096 and 3119)

These instructions should be read in conjunction with the User Manual supplied with the software (file 'manual.txt')

Software Installation

We are assuming that you are using the P16PRO DOS software. If you are using P16PROL (the freeware light version supplied with kit 3081 please substitute this name where P16PRO is given)

1. Create a new directory called C:\P16PRO
2. Unzip the P16PRO DOS software files to this directory

Connecting the Hardware

1. Disable any software that using the parallel (i.e. a sheet feed scanner). Do this by pressing **CTRL-ALT-DELETE**, select the program in question and **END TASK**.
2. Attach the programmer to the parallel port of your computer using a 25 pin male to female parallel lead. Connect a power supply of 16-30VDC or 12-20VAC. (These items are available from Quasar Electronics if you do not have)

Starting the Software

1. Start the P16PRO software from the DOS prompt. You can get to the MS-DOS prompt either in windows by going to **START>PROGRAMS>MS-DOS PROMPT** or by restarting windows in MS-DOS Mode.
2. The MS-DOS prompt often defaults to C:\WINDOWS. Type **CD..** followed by return, then type **CD P16PRO** followed by return. Now start the software by typing **P16PRO** followed by return

Programming a PIC

1. Firstly, the program you want to burn to the chip must be in .hex format and a copy must be placed in the same C:\P16PRO directory as the P16PRO software. (It is easier to copy the .hex file to the P16PRO directory in Windows unless you are familiar with using DOS.)
2. Press **F3** and select the PIC device that you want to program from the list by typing in the appropriate number followed by Return.
3. Hit **F1** and select the program you want to burn
4. Do a Blank Check of the PIC to be programmed by pressing **F7** (Use the onscreen picture to correctly position the chip in the programmer). Do an **F9**, Erase, if the chip is not blank.
5. Now hit **F4** to program.

6. You can confirm that the program has entered the chip by pressing **F5**, Verify. You should receive the message "ProgMem and DataMem are OK".
7. Job done!

If you experience any problems please email us on sales@quasarelectronics.com providing a full description of the problem together with a copy of the .hex file being used, the device being programmed and details of any error messages given by the software.

If you have any suggestions for improving this document please email them to us on sales@quasarelectronics.com

Learn to Program PIC's

We highly recommend this range of books by [SQUARE-1](#). They are available from [Amazon](#).

