



Fox Delta

Amateur Radio Projects & Kits

FD-PICPROG

Technical Details & Assembly Note: Parallel Port PIC Programmer

PIC Programmer Details:

PIC Programmer is an essential tool if you wish to learn or build a project that uses Microchip PIC Micro Processors such as DDS, Repeater Controllers and LCD Power Meter.

This programmer is built using Free Windows Software called [WinPicProg](#) developed by [Nigel Goodwin](#) and similar free software by [Vladimir Soso](#)

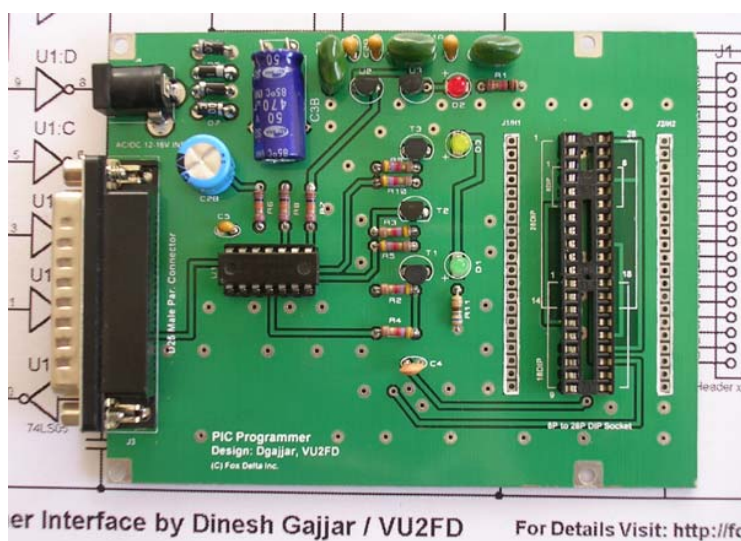
Programmer PCB is double sided PTH board. In this programmer, you have a 0.3 Inch IC socket (40pin) on the main board, where you can place 8, 18 or 28pin ICS for programming. This is achieved by using a 40pin DIL socket.

However, make sure that you insert ICs at the proper location on this 40Pin socket. Suitable markings of placement are made on the PCB.

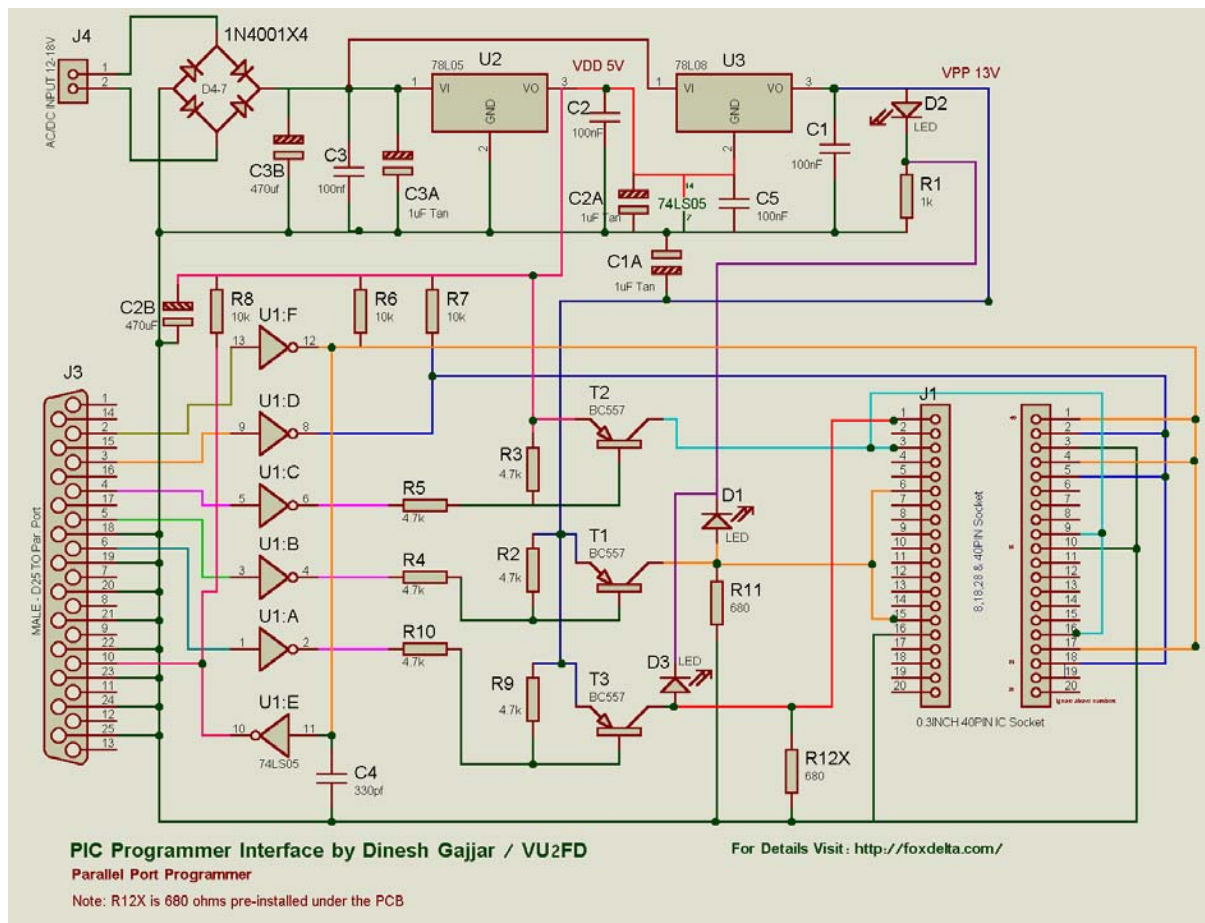
This programmer is also supplied with a small 40pin "Piggy adepter" PCB, which mounts on the main PCB header row along 0.3in socket. 40pin 0.6Inch IC socket is not supplied.

On this adepter, you may either use an economical 40Pin IC socket or a ZIF socket of your choice.

Picture of the Assembled PIC Programmer:



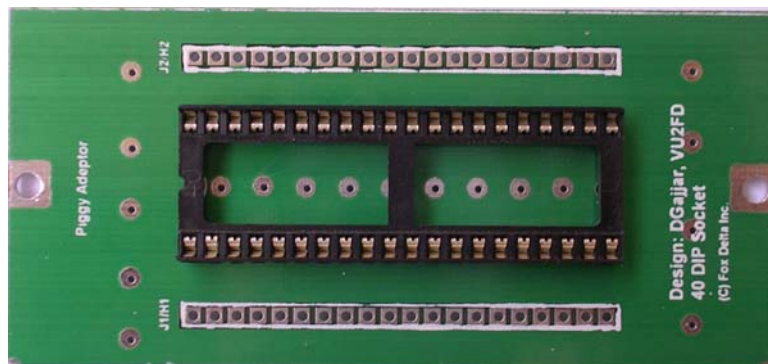
Schematic of the PIC Programmer:



Piggy Adepter for 40PIN DIP:

Along with the kit you also get a small PCB (4X9CM) made to accept a 0.6inch 40PIN IC socket or a ZIF socket. It is offered free of charge. 40PIN DIL Socket visible in following picture is not supplied.

Picture of the Piggy Adepter with 40PIN DIP Socket:



Assembly Note:

Assembly is straightforward. Not much of a discussion required. If you can read the schematic, you can build this programmer within 15-20 minutes.

All silk markings on PCB are correct except transistor shape. In all kits, I will solder T1, T2 & T3 Transistors to avoid any mistake.

Programming Socket:

Using three sockets of 18+14+8 PIN creates a 0.3INCH 40PIN IC socket. You may use any other combination as you like.

I hope this kit will be useful to many hobbyists.

Programming Settings for Oshonsoft Parallel Programming Software:

For above software, use hardware settings as follows:

- Invert VDD D2**
- Invert VPP D3**
- Invert Clock D1**
- Invert Data Line D0**
- Invert Data In (S6)**

For 40pin PIC, please change VPP pin number required.

Dinesh Gajjar/VU2FD

For more details on this project, visit <http://www.foxdelta.com/>