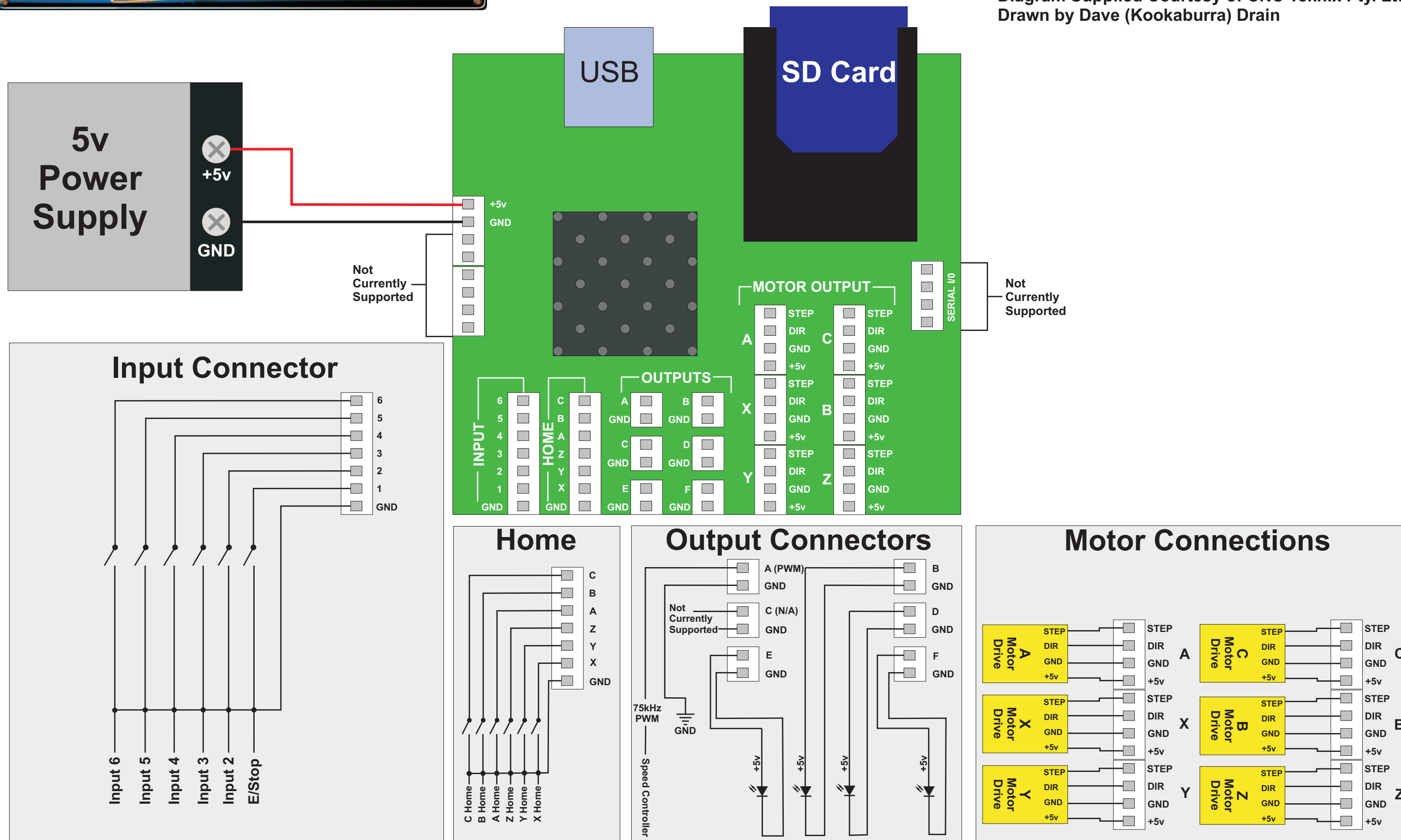


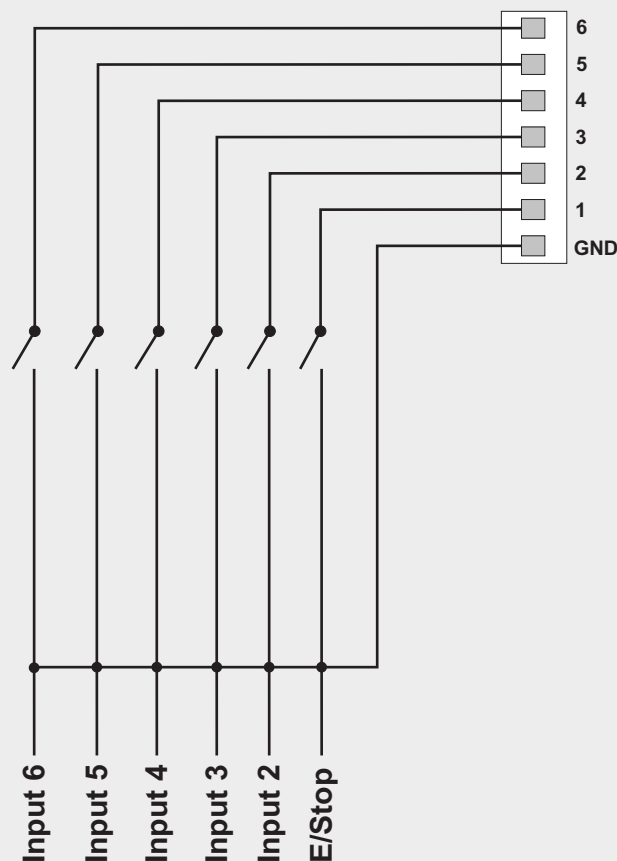
# PRELIMINARY NC Pod Connection Diagram for Mach 3 Control



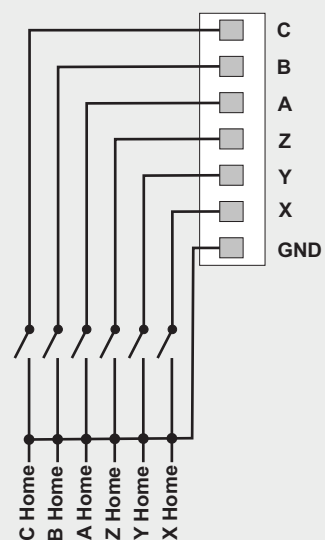
Diagram Supplied Courtesy of CNC Teknix Pty. Ltd.  
Drawn by Dave (Kookaburra) Drain



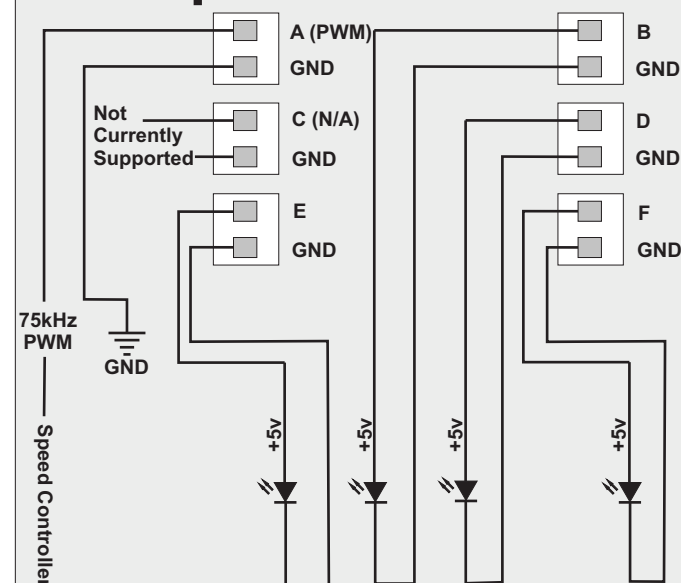
## Input Connector



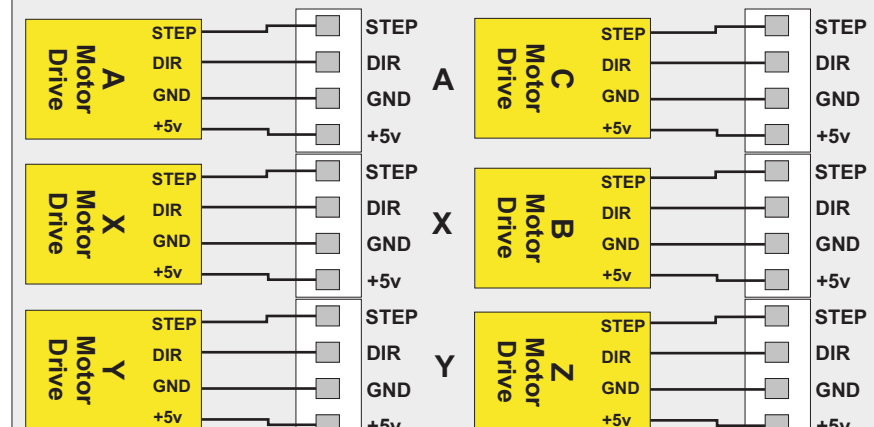
## Home



## Output Connectors

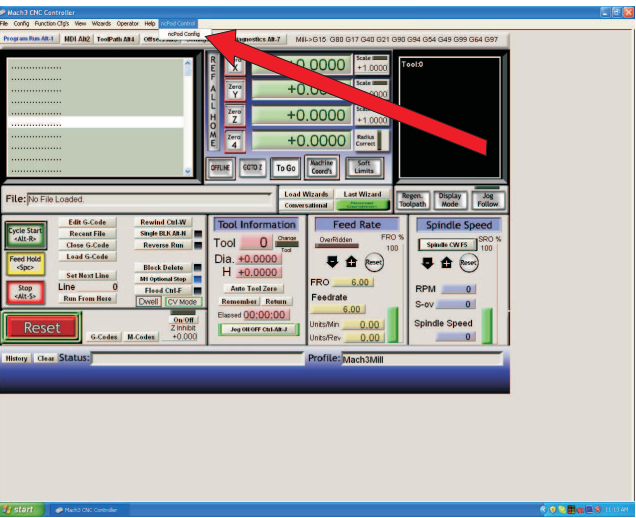


## Motor Connections

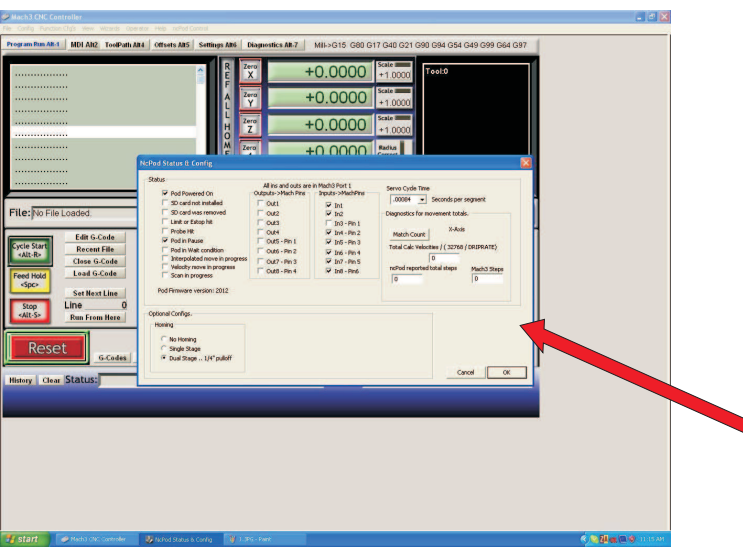


The Port setting for the NcPod is PORT 1 for all Mach3 Settings.

When you are running with the NcPod plugged in and initialized, slide your mouse up to the top of the Mach3 screen, next “Help” in the Mach3 top menu (Figure 1).



An NcPod menu will appear to allow you quick access to the NcPod plugin configuration and diagnostics dialog as shown in figure 2.



The Dialog lists the pin reference for Mach3's pin settings for the NcPod's input and output functions. The input is the same as the silk screen on the circuit board, pins 1-6 conform to MACH3 pins 1-6 of port 1. Take note that pin 1 is Estop, and will stop the pod as well as put Mach3 into an Estop condition. The other pins may be used as you wish.

The outputs are not so intuitive. On the board there are two groups of three outputs..

OA OB  
OC OD  
OE OF

They conform to Mach3 as shown below.

A = spindle output (PWM)  
B = Pin3 of Mach3  
C = Currently Not Supported  
D = Pin2 of Mach3  
E = Pin1 of Mach3  
F = Pin4 of Mach3.

Homing selections are on the config page. There are three different homing functions to choose from.

No homing - This function will set the axis referenced and set to the Home Offset values on the spot.  
Single Stage - This function will rapid to the switch, stop and reset to Home Offsets.  
Double Stage - This Function will do similar to above and then do a fast move to 6mm's or 1/4 inch from switch, then move slowly back to switch and zero indexes to home offset setting.