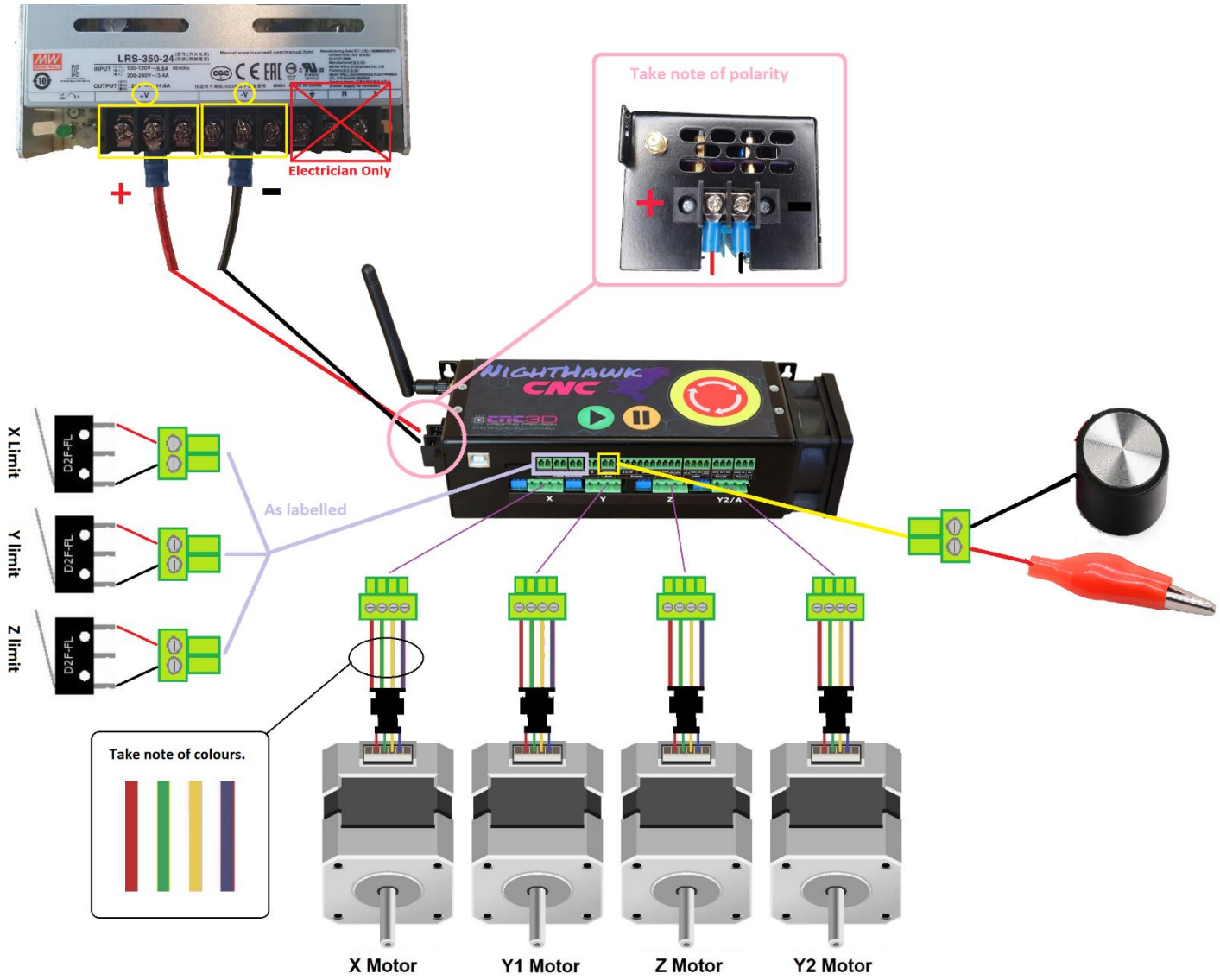
SharpCNC wiring Diagram for Nighthawk controller

Please remove all plugs from the Nighthawk before commencing wiring.
To do this, simply lever the plugs out carefully with a flat head screw driver.

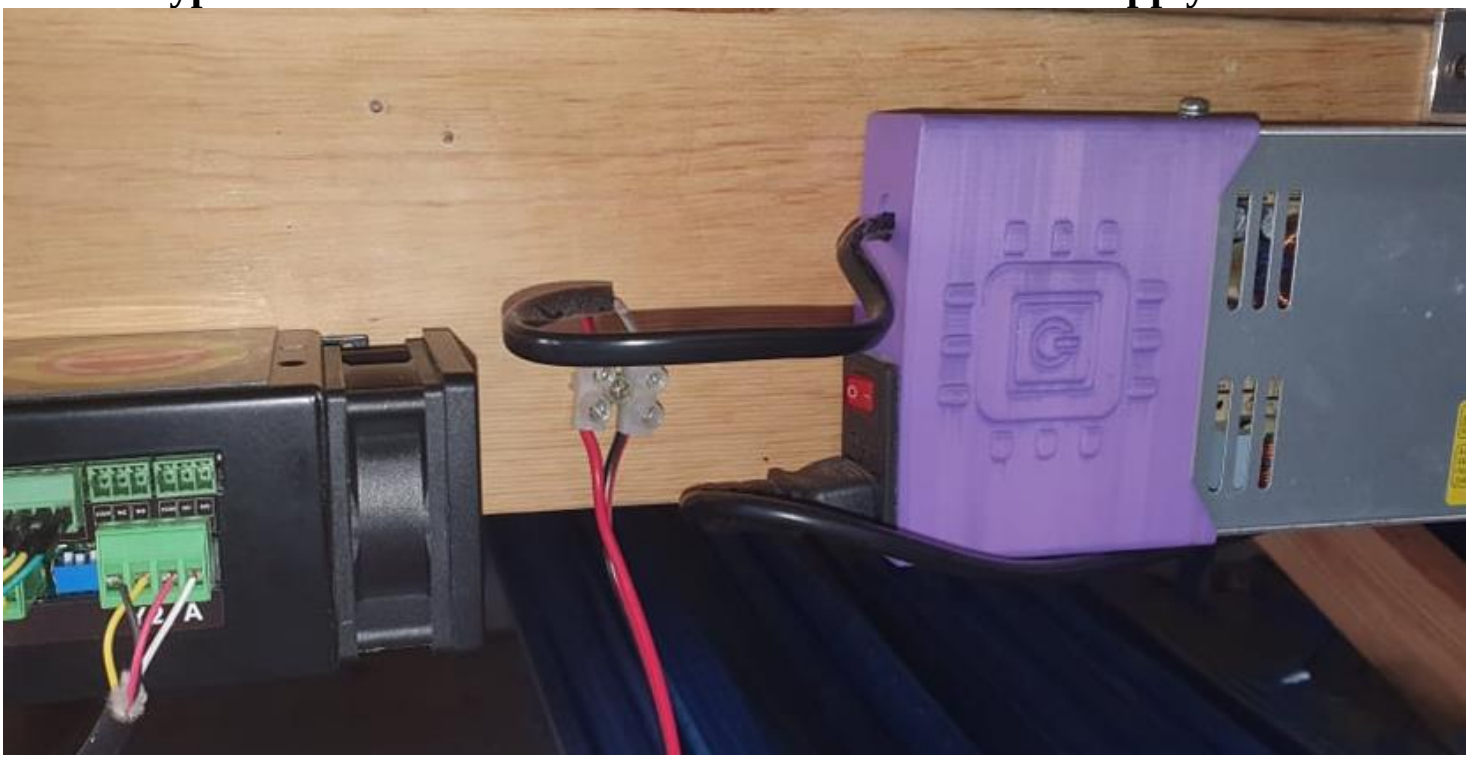
Refer to the manual with your Nighthawk controller for a link to the manual you can either scan the QR code on your smartphone or tablet or visit https://www.cnc3d.com.au/nhc

Under Australian law all 240V sections of this kit must be performed by a licensed electrician. We have intentionally left out certain parts of this wiring diagram that are designed for your electrician. If they have any issues, please advise them to get in contact with us.

It is perfectly fine for you to perform the rest of the connections in this diagram other than the one highlighted in red.



Typical installation with IEC socket fitted to Power supply cover.



Common questions asked by Electricians, please pass this information on to the electrician

- When wiring the VFD and Spindle ensure it spins clockwise, if it is not, change 2 of the output phases (on the VFD end, might be easiest) around until it does.

- DO NOT Alter any VFD settings! they are factory preset for best performance and longevity.

- It is good practice to ground the shielding on the spindle cable to the VFD earth end, not both ends.

- The 4th pin on the spindle is NOT an earth, please refer to spindle wiring diagram supplied for suggested mounting options.

- Installing the E-Stop is left to your better judgement and experience to install. Ideally, consider the power being cut to both VFD and Power supply to prevent any injuries.

- If possible, can you please kindly complete the rest of the steps below to safely finalise the installation of the electronics for the user.