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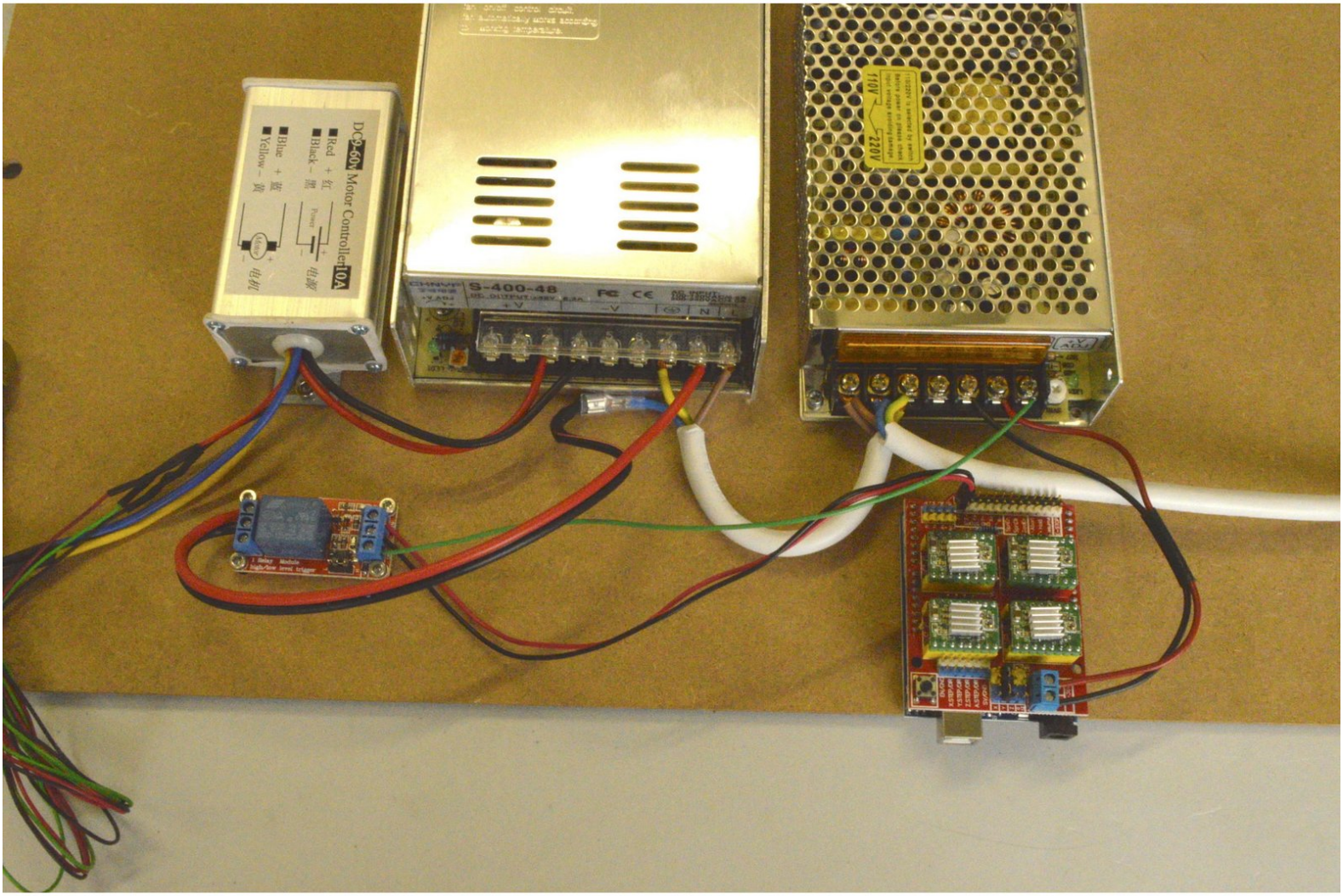
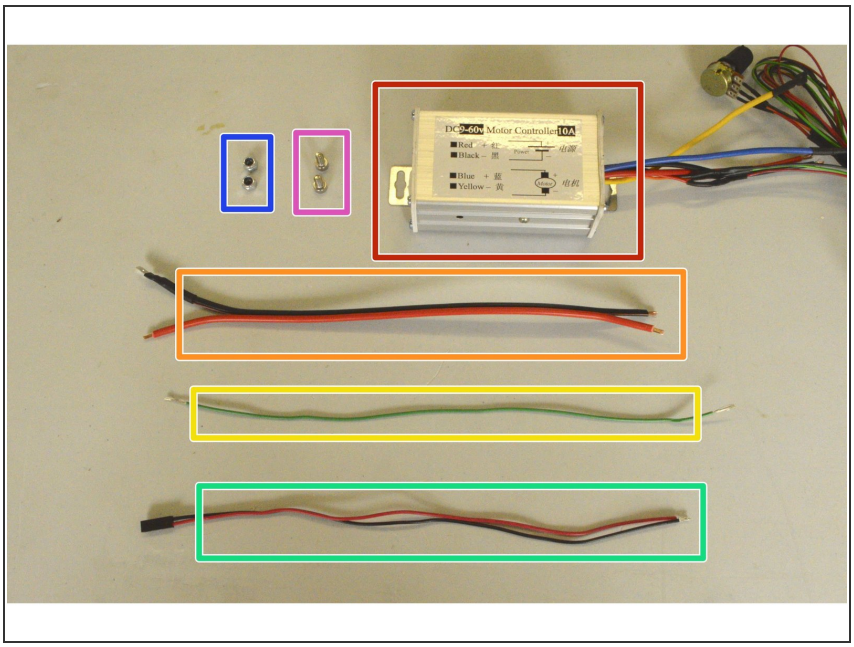
19. Connect Spindle Speed Control and Relay

Written By: Paul Cronje

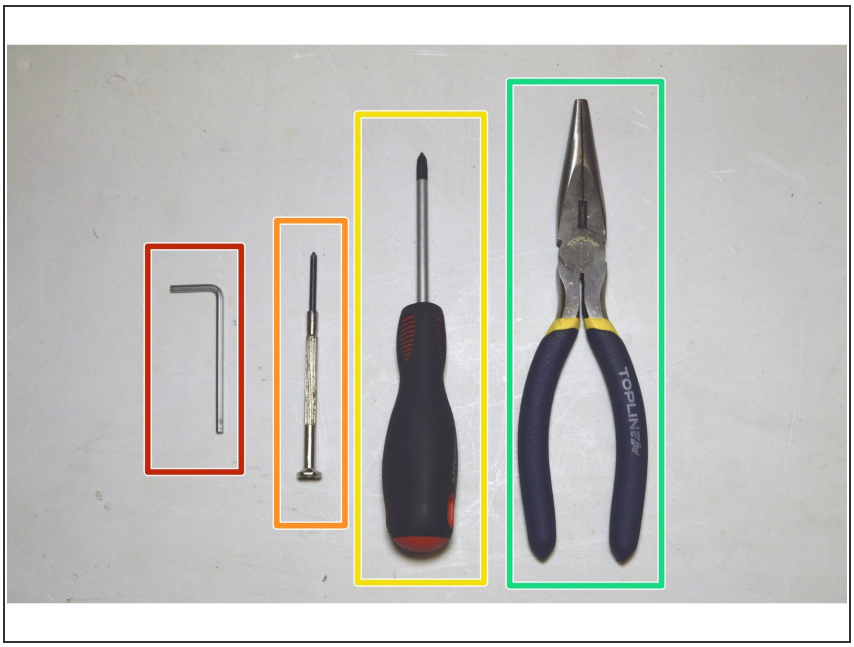


Step 1 — Parts Required



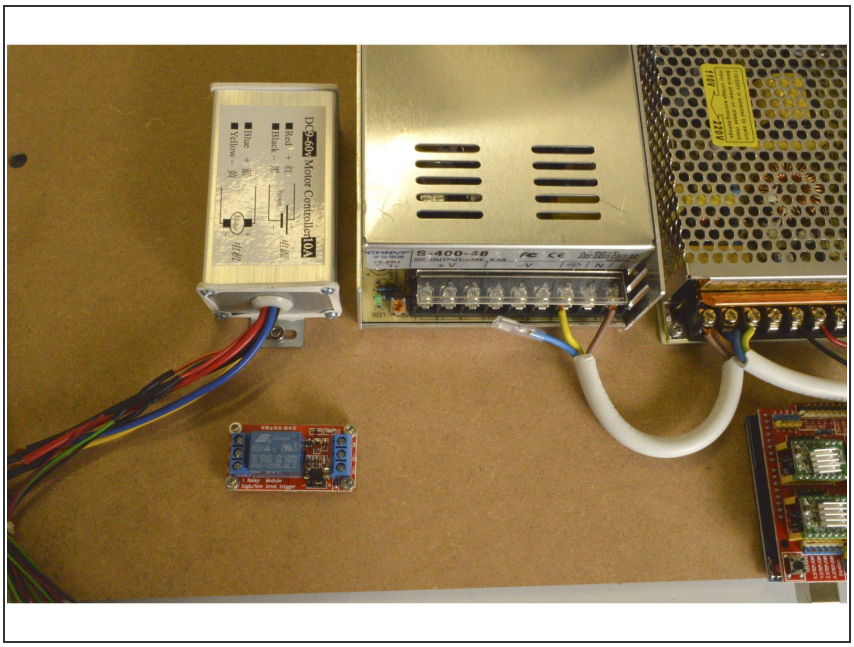
- Spindle Speed Controller
- Relay COM Cable
- Relay 12V Cable
- Relay Signal Cable (with 2 pin connector)
- M4 Lock Nuts (2 Pcs)
- M4x8 Cap Screw (2 Pcs)

Step 2 — Tools Required



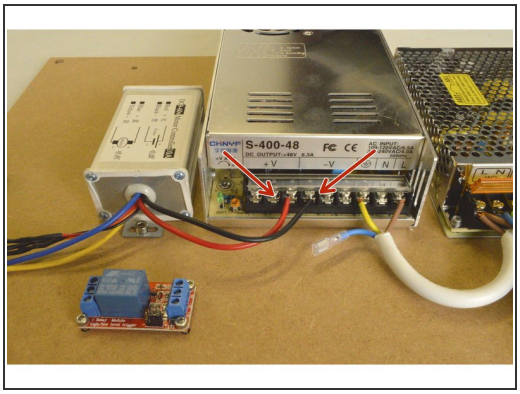
- 3mm Allen Key
- Small Phillips Screw Driver
- Phillips Screw Driver
- Sharp Nose Pliers

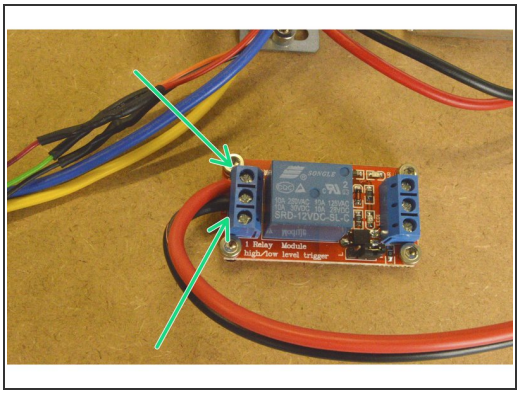
Step 3 — Mount Speed Controller

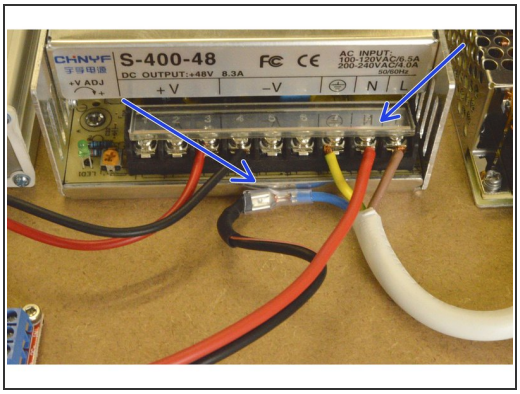


- Mount the Spindle Speed Controller as shown with the M4x8 Cap Screws (2 Pcs) and the M4 Lock Nuts (2 Pcs)
- Tighten the screws with the 3mm Allen Key and the Sharp nose pliers

Step 4 — Connect the Speed Controller

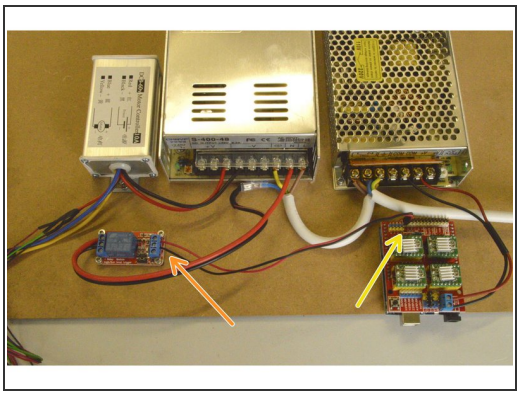


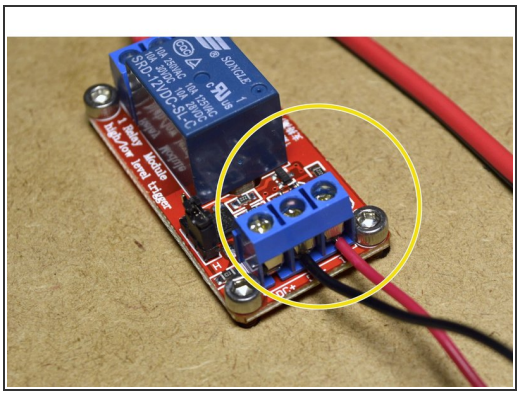


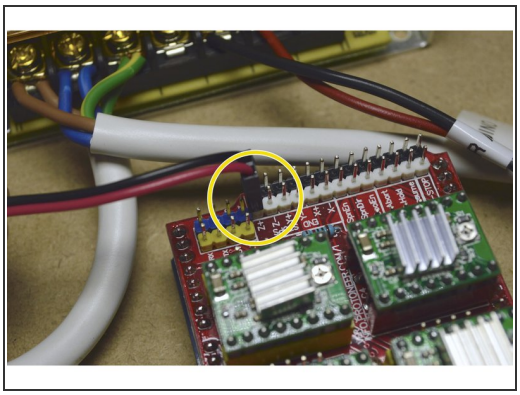


- Connect the black and red cable of the Speed Controller to the V- and V+ port on the 400W power supply as shown
- Take the Relay COM Cable and connect the end without the crimp terminal to the relay. The red cable needs to be connected to the NO port and the black cable to the COM port as shown.
- Connect the other end of the Relay COM cable to the 400W power supply by connecting the red cable to the N port and the black cable to the crimp terminal on the blue 220V cable as shown.

Step 5 — Connect the Relay Signal

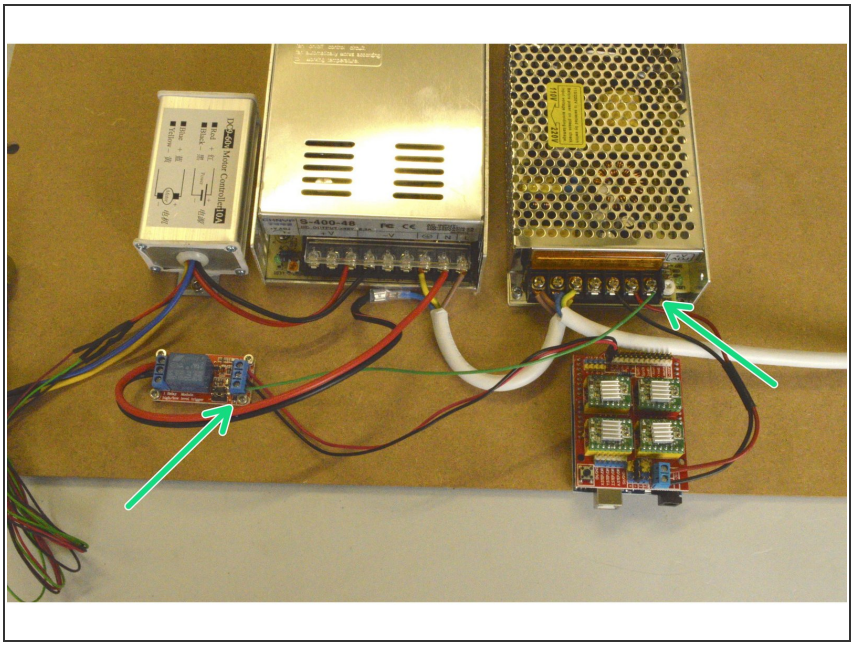






- Connect the Relay Signal cable to the IN port on the relay (red cable) and to the DC- port on the relay (black cable)
- Plug the 2 pin connector to the Z+ pins on the CNC shield with the red cable closest to the stepper drivers as shown

Step 6 — Connect the Relay Power



- Connect the Relay Power Cable to the DC+ port on the Relay and to the +V port on the 100W Power supply