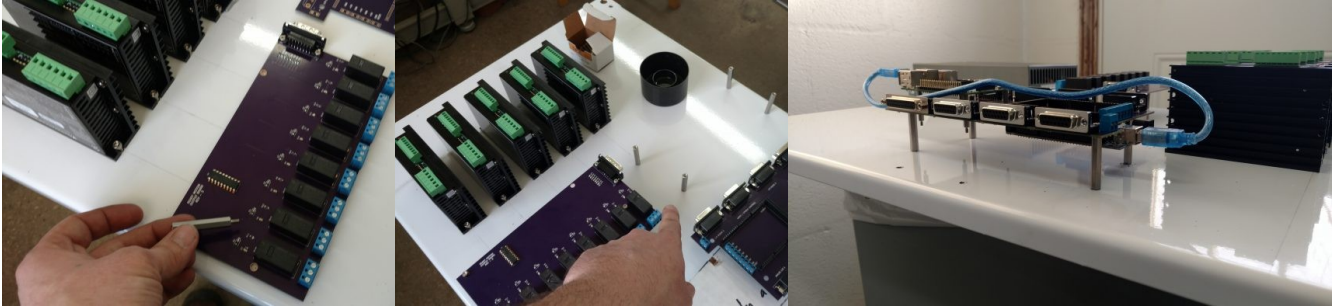


Layout

Make sure power is not on!

Layout the Ready Motion Boards how you want.

1. Using a 6/32 tap, tap the mounting holes into your sub panel.
2. Then mount the boards to the sub panel.

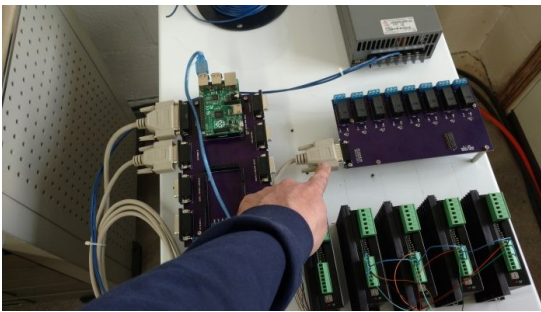


Relay Boards

Make sure power is not on!

DB-15 cables from the Main Board to the Relay Boards.

1. Hook the male connection of DB-15 cable to the Main board connection you want to utilize and the female connection of DB-15 cable to the relay board

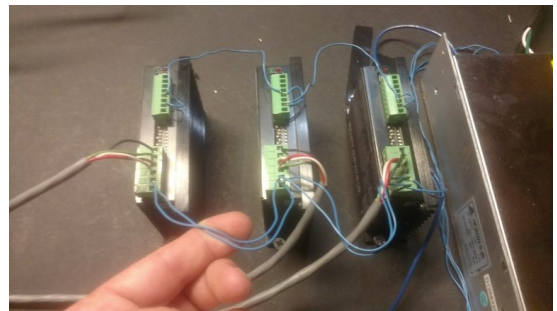


Stepper Drives

Make sure power is not on!

Power to the stepper drives.

1. Hook up 24 - 65 VDC power to the V+ V- terminals. We use jumper wire to go from drive to drive.
 - [V+] = DC Positive.
 - [V-] = DC Negative.

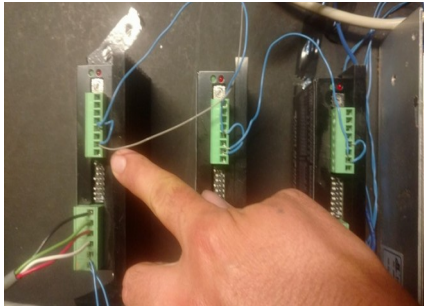


Stepper Drives

Make sure power is not on!

Stepper drives to the main board.

1. Hook the DB-25 cable to the stepper / servo connection on the main board.
2. The system runs on Step and Direction to run the steppers and servo motors.
3. If using stepper drives from Ready Motion hook the **GRAY** DB-25 wire to the drives (STEP - and DIRECTION -). We use jumper wire to go from drive to drive.



4. Now we will hook up all the (STEP + and DIRECTION +) for the drives you are using. Reference the color code chart to connect the wires.

X AXIS	
STEP +:	<i>BLACK / WHITE</i>
DIRECTION +:	<i>RED / WHITE</i>
Y AXIS	
STEP +:	<i>GREEN</i>
DIRECTION +:	<i>BLUE</i>
Z AXIS	
STEP +:	<i>BROWN</i>
DIRECTION +:	<i>RED / BLACK</i>
A AXIS	
STEP +:	<i>GREEN / WHITE</i>
DIRECTION +:	<i>BLUE / WHITE</i>
B AXIS	
STEP +:	<i>BROWN / WHITE</i>

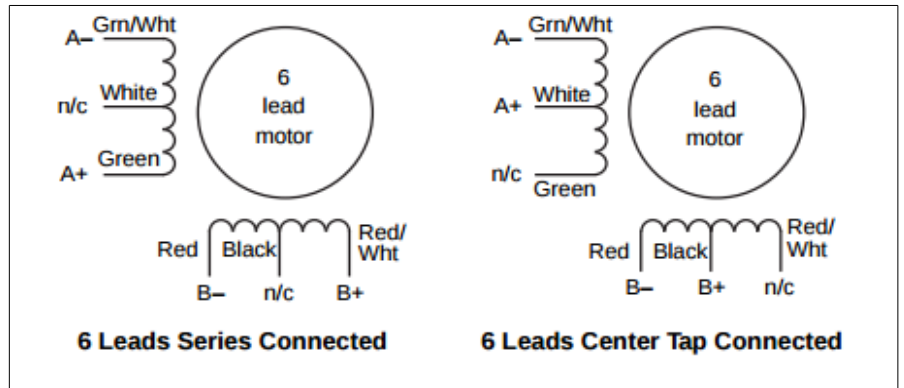
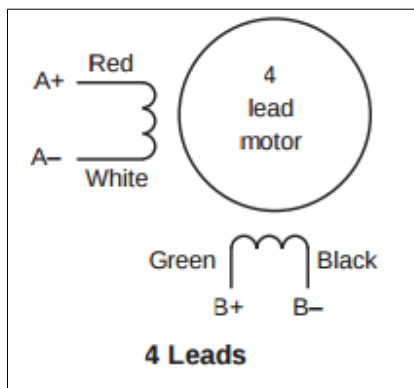
	DIRECTION +:	ORANGE
C AXIS		
	STEP +:	GREEN / BLACK
	DIRECTION +:	PURPLE
D AXIS		
	STEP +:	RED
	DIRECTION +:	ORANGE / WHITE
E AXIS		
	STEP +:	LIGHT GREEN
	DIRECTION +:	PURPLE/ WHITE
POWER		
	GROUND:	GRAY
	5 VOLT:	YELLOW/BLACK

Stepper Drives

Make sure power is not on!

Stepper motors to the stepper drive.

1. Hook the cable from your stepper motors to the stepper drives Reference the drawing below to connect the wires.
2. If you need to change direction on your stepper drives swap A+, and A-

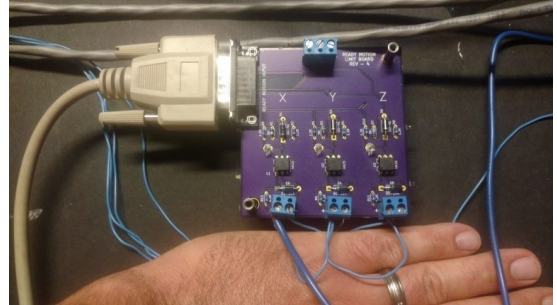


Limit Board

Make sure power is not on!

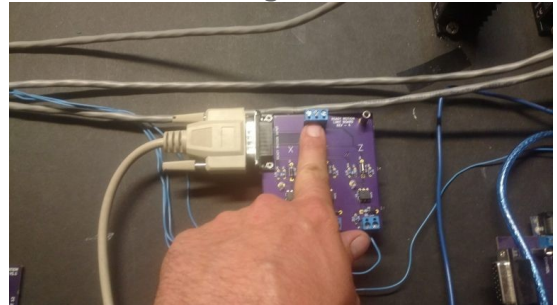
Limit board to the main board.

1. Hook the male connection of DB-15 cable to the main board connection labeled limit switches and the female connection of DB-15 cable to the limit board.
2. Run 24 volt positive supply from the power supply or extra 24 volt rail terminals to the positive terminals on the limit board. *We use jumper wire to go from positive terminal to positive terminal.*



3. Next run 24 volt negative supply from the power supply or extra 24 volt rail terminals to a leg on your limit switch. Then hook the other leg of you limit switch to the negative terminal on the axis you want to use on the limit board.

NOTE: If you are not using the Ready Motion Control main board you can still use our limit board by hooking your motion controllers limit inputs to the break out terminals located below. The terminals are in order from left to right X,Y,Z



Wiring 24 Volt Rail

Make sure power is not on!

24 volt rail to 24 volt power supply.

1. In order for the relay boards and limit switches to work we need to provide them with external power.
2. Hook up 24 VDC power to the positive and negative 24 volt rail terminals.
3. [+] = DC Positive.
4. [-] = DC Negative.

