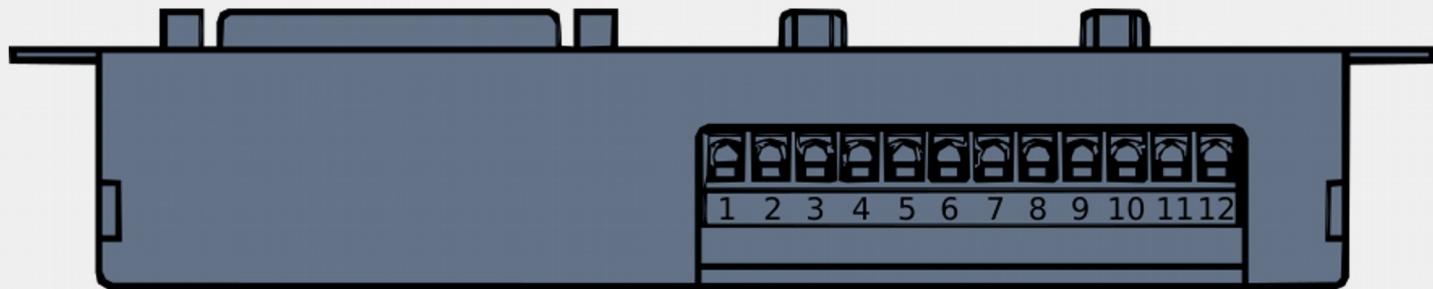


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The GRBL G540 USB Controller makes use of the built in Gecko break out board on the G540. Allowing us to only use a single ribbon cable connection from controller to g540 driver. Below you will find the pinout for the Gecko breakout board.



1: X-Axis Limit Switch

7: VFD Ground

2: Y-Axis Limit Switch

8: VFD Output

3: Z-Axis Limit Switch

9: VFD 10V

4: Tool Probe

10: E-Stop (Disable Input)

5: Coolant Relay

11: Supply 18-50VDC

6: Spindle Relay

12: Power Supply GND

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The GRBL G540 USB Controller offers a number of connections on board. Here is a list for convenience.

- IDC26 Header (Connects to G540 via ribbon cable)
- IDC6 Header (This is the Atmega328P ICSP Header)
- Power Screw Terminals (Power Input 7V - 24V Max)

You will also find a row of screw terminal pairs. They are for hooking up the following control panel buttons.

- Start / Resume
- Feed / Hold
- Reset / Abort

Each pair offers a signal and ground connection. Used with a NO momentary push button.

The last unmarked screw terminal pair is for controlling a additional mist coolant relay. GRBL will need to be compiled to use this option..

The four selector dip switch marked "A-axis" allows you to control the cloned axis for the G540.

If not running dual motors on a single axis place all dip switches "Off" To select the axis to clone for the slave motor. Set the dip switches accordingly.

Clone Y-axis

- 1: off
- 2: on
- 3: off
- 4: on

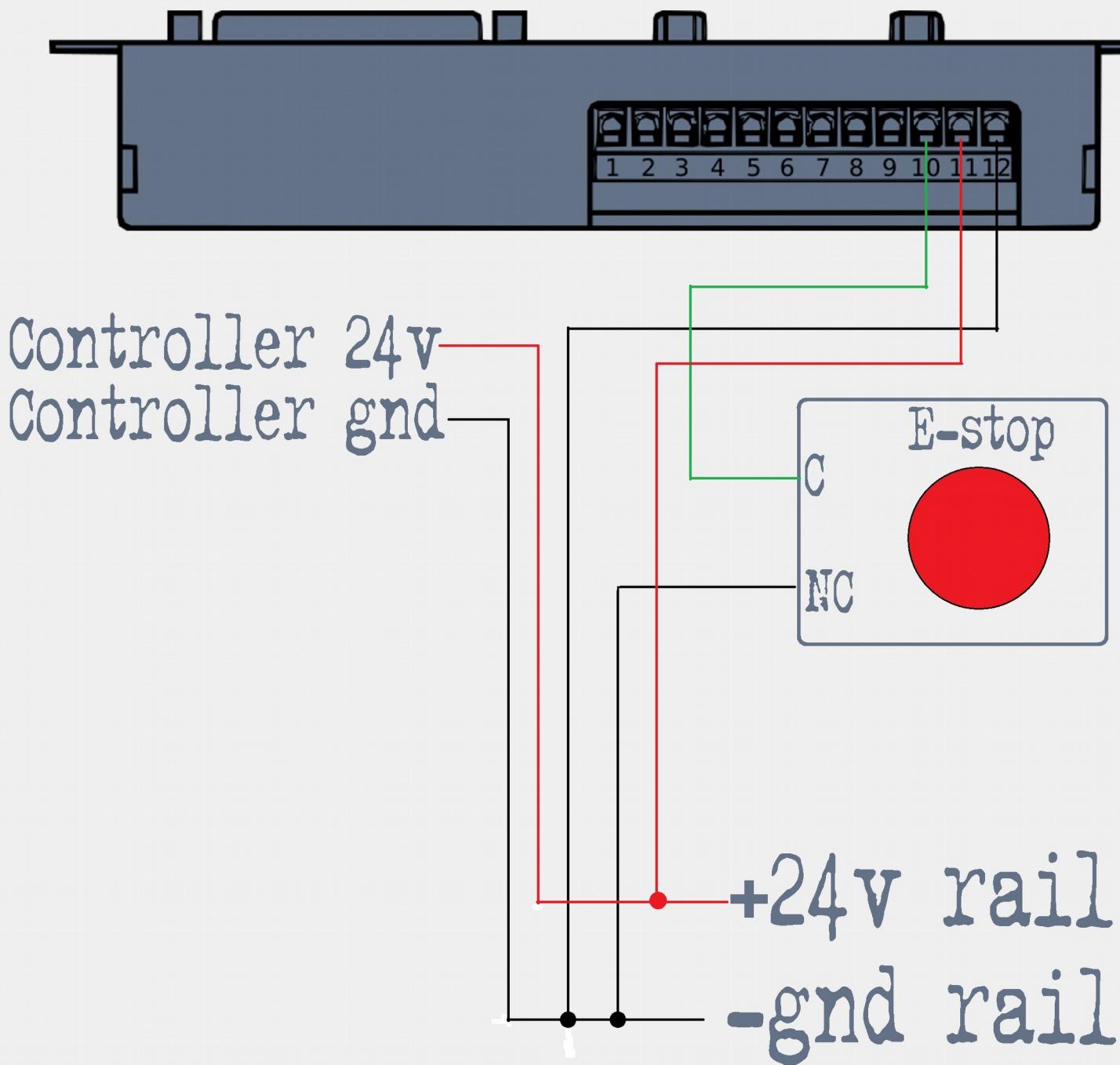
Clone X-axis

- 1: on
- 2: off
- 3: on
- 4: off

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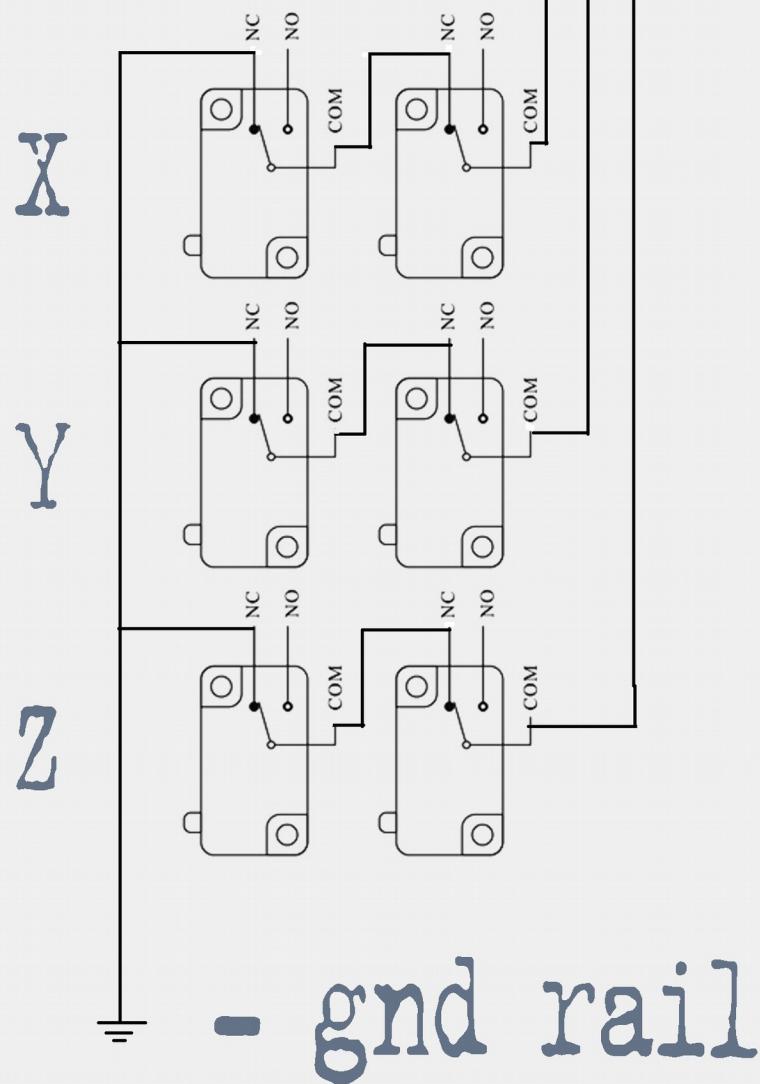
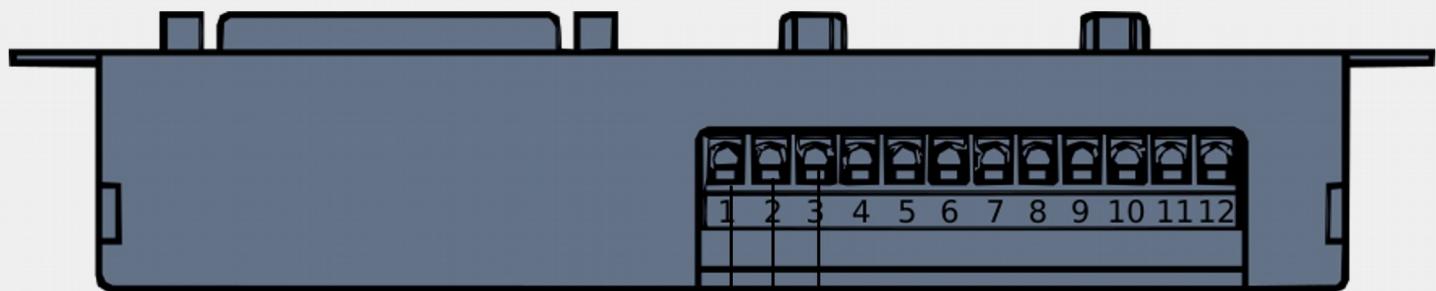
Power/Estop Diagram



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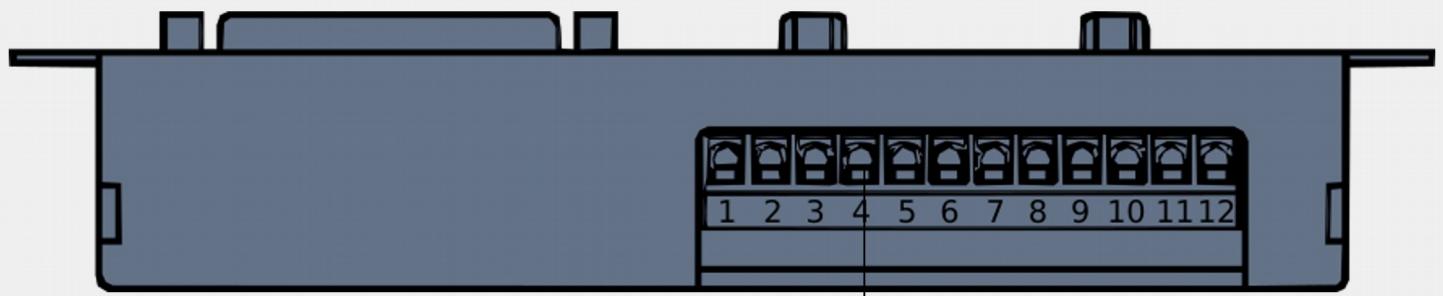
NC Limit Switch Diagram



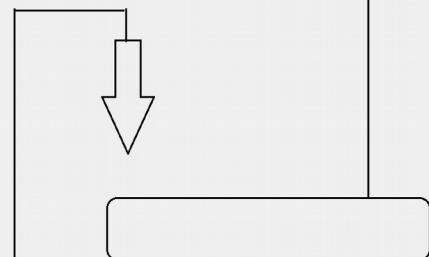
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Touch Probe Diagram



Tool clip



Touch Plate

= - gnd rail

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Coolant/Spindle Relay Diagram

