



Arduino DC jack is wired to the CNC 12 V input connector

Front buttons (Reset can also be wired to EmergencyStop for increased safety, i.e. hardware reset)

ATTENTION: The CNC shield v3 Z-endstop connectors are wired to D11. In newer GRBL versions this pin is used for the variable spindle signal (hardware PWM is on this pin) and the Z-endstop moved to D12 (formerly spindle enable).

Pulldown to keep laser off during GRBL boot

12V for laser is wired externally

NOTE: the buttons are wired directly to GND in this schematic for the sake of simplicity. In reality they are connected via 2-pin Molex connectors (of which one pin is GND).

A custom 3D-printed (in parts) laser engraver  
 Based on GRBL and an Arduino UNO + CNC Shield  
<https://www.dream-dimensions.de/2018/09/corexy-laser-engraver-mk2/>  
<https://www.thingiverse.com/thing:3123030>  
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