



The 5V and ground references on this diagram indicate the actual VCC and GND lines from the USB host, and are not meant to imply connection of a separate power source or ground line. This circuit is entirely powered from the USB interface on CON2 or from a programmer on CON1 (not both!).

The programming interface is CON1 and the bill of materials includes a shrouded male header properly sized and keyed for Adafruit's inexpensive USBtinyISP AVR Programmer. The bill of materials also includes five 4-position right-angle screw terminals with a 0.1" pitch for CON2-4, a mini-USB-B device jack to be wired to CON2, seven keyswitches to P,R,M,I,N,C,F/GND on CON3, and three LEDs at CON4 (which can be physically seated into the N,C,F key switches). The UC,M1,M2,M3 lines on CON3 are reserved for future features but are unused as of SpiffChorder 0.99 (same for the LEDs).

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Fungi's docs: http://www.yuggoth.org/wiki/ManMachine	
Spiff's docs: http://symlink.dk/projects/spiffchorder/	
Project	Fungi's SpiffChorder Dev Board
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