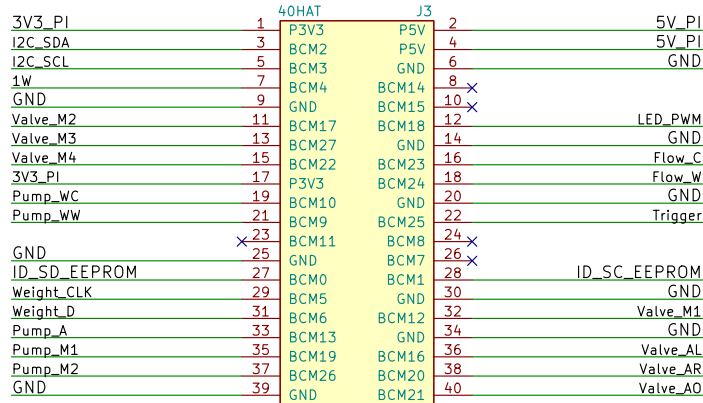
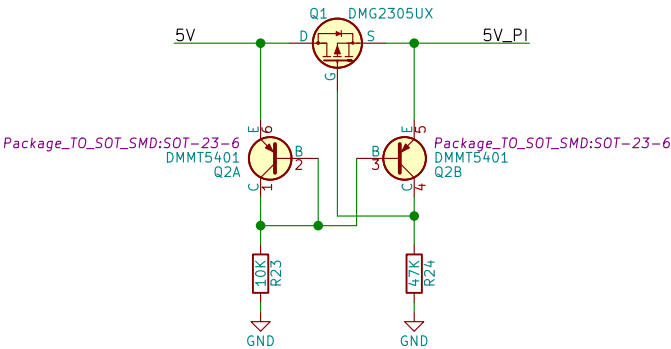


40-Pin HAT Connector

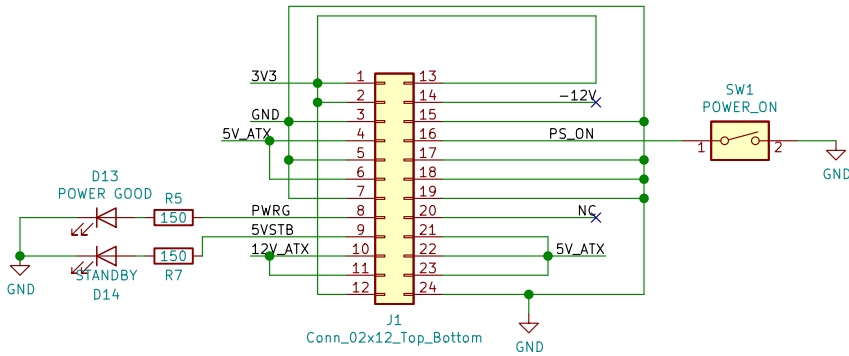


5V Powered HAT Protection

This is the recommended 5V rail protection for a HAT with power going to the Pi.
See <https://github.com/raspberrypi/hats/blob/master/designguide.md#back-powering-the-pi-via-the-j8-gpio-header>



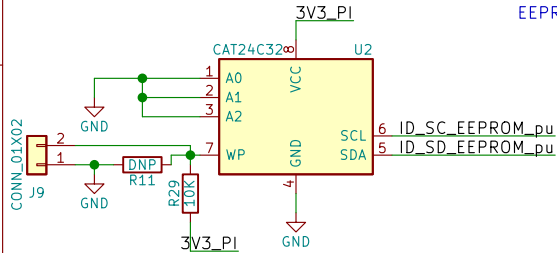
ATX Connector



HAT EEPROM

The HAT spec requires this EEPROM with system information to be in place in order to be called a HAT. It should be set up as write protected (WP pin held high), so it may be desirable to either put a jumper as shown to enable writing, or to hook up a spare IO pin to do so.

EEPROM WRITE ENABLE

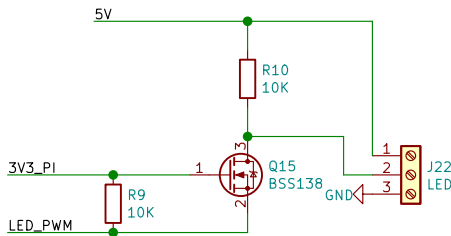


Pullup Resistors

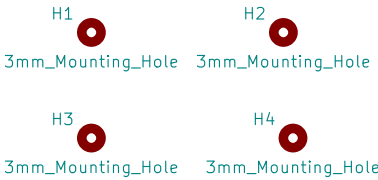
These are just pullup resistors for the I2C bus on the EEPROM. The resistor values are per the HAT spec.



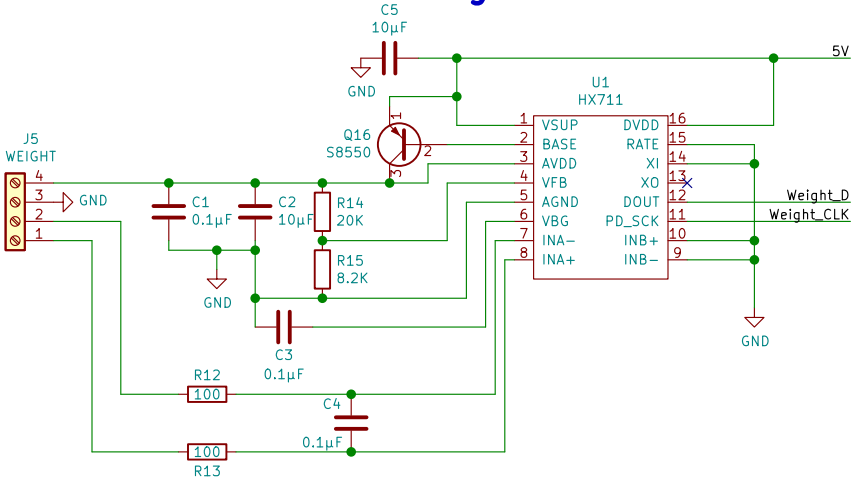
LEDs



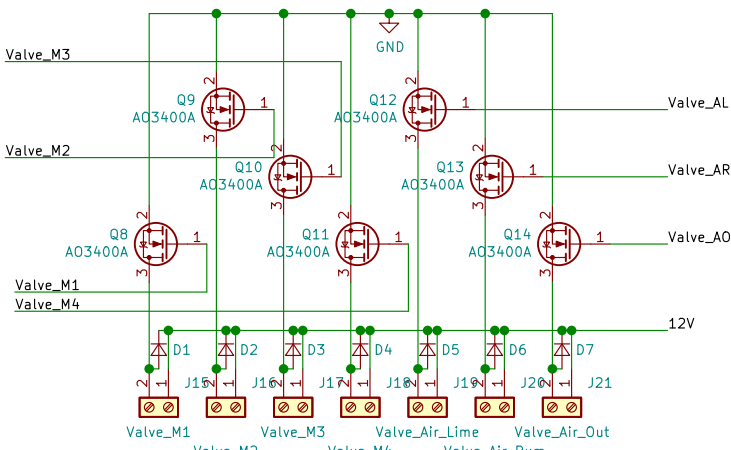
Mounting Holes



Weight

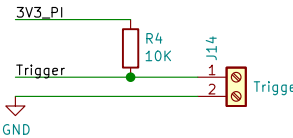


Valves



Trigger

Use a separate pull-up since the 60K built in from raspi might be insufficient for longer cables.



JKO

Sheet: /
File: fusioncore.sch

Title: FusionCore Expansion

Size: A3 Date: 2020-01-04
KiCad E.D.A. kicad (5.1.5)-3

Rev: A
Id: 1/1