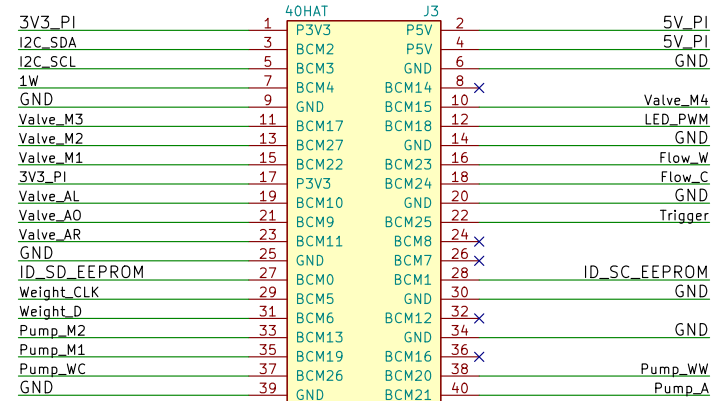
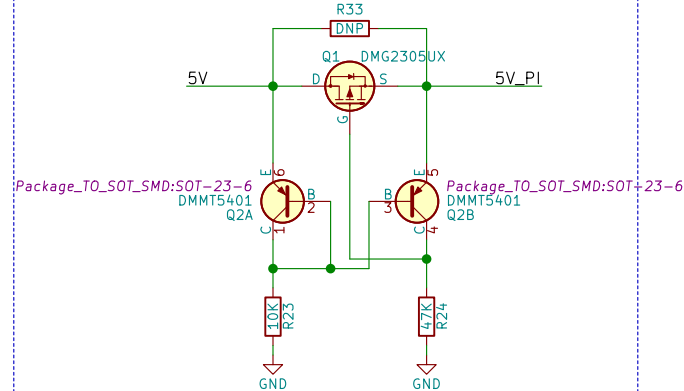


40-Pin HAT Connector

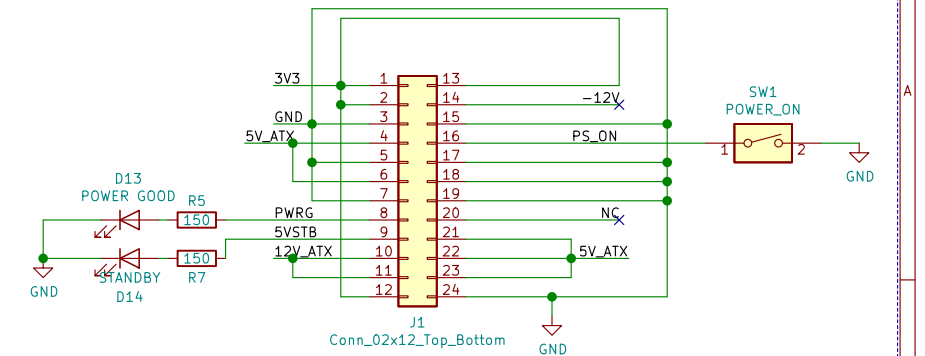


5V Powered HAT Protection

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>

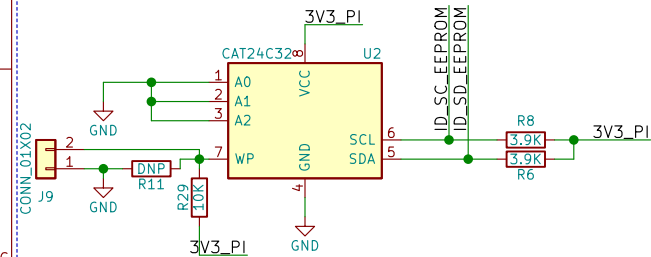


ATX Connector

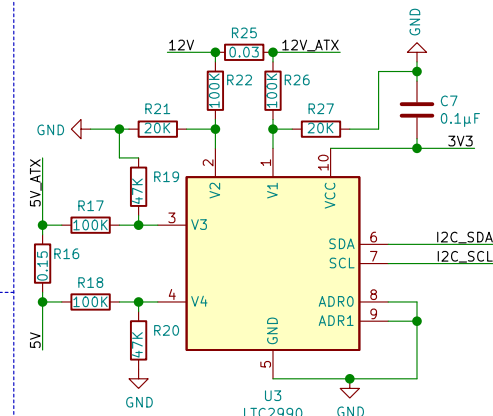


HAT EEPROM

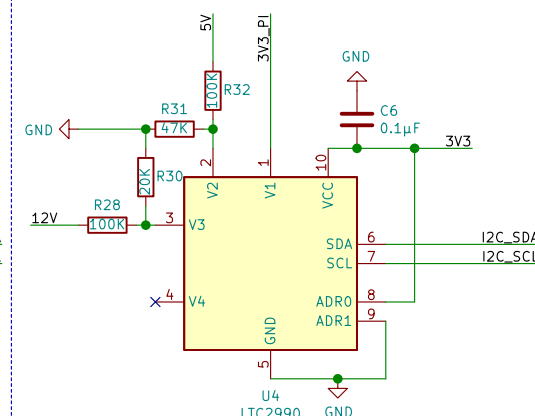
The HAT spec requires this EEPROM with system information to be in place in order to be called a HAT. It should be set up as write protected (WP pin held high), so it may be desirable to either put a jumper as shown to enable writing, or to hook up a spare IO pin to do so.



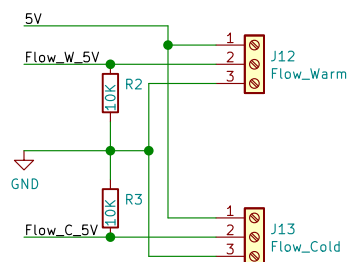
Current Sensor



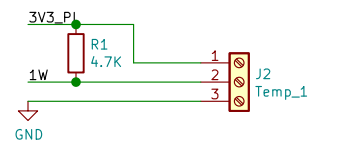
Voltage Sensor



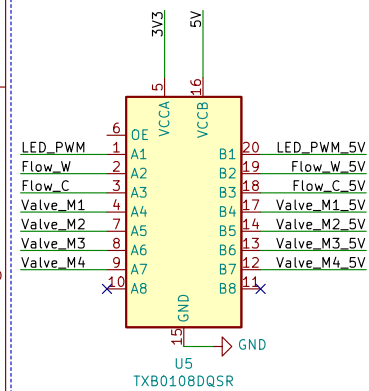
Flowmeter



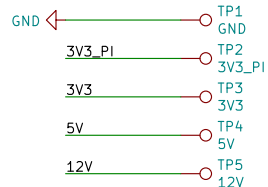
1 Wire Port



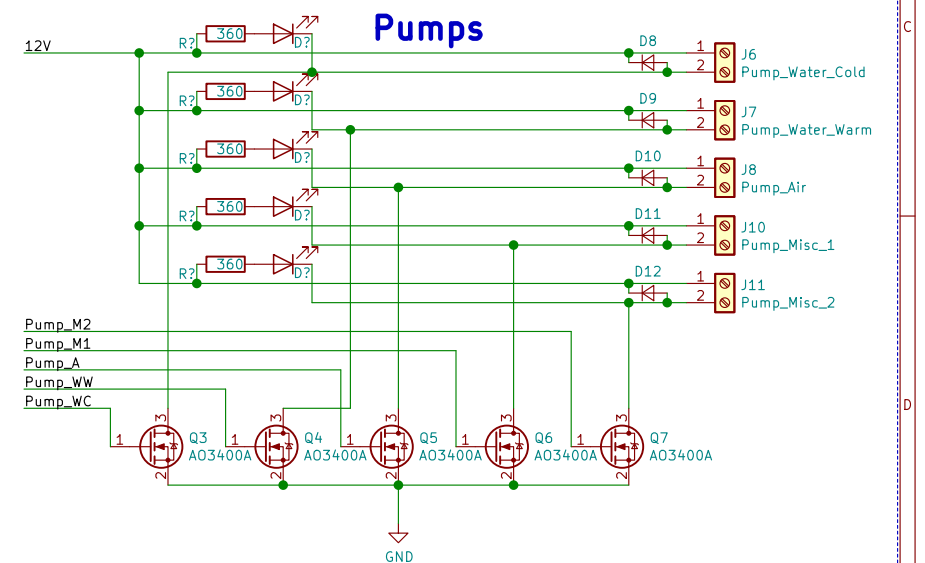
3V3 5V Shifter



Testpoints



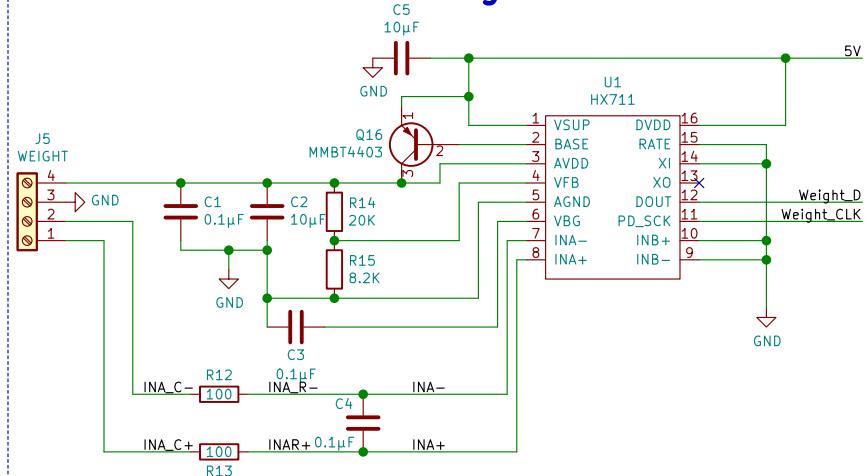
Pumps



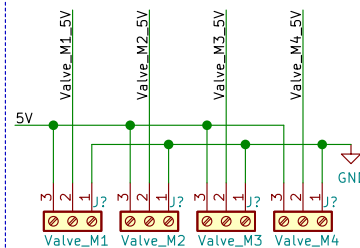
Mounting Holes



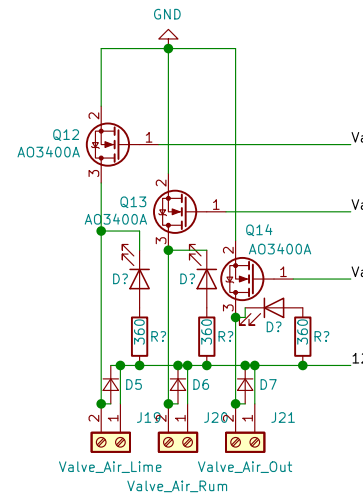
Weight



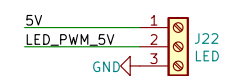
Valve Servos



Valves

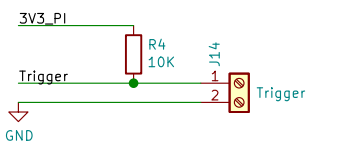


LEDs



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
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Rev: A
Id: 1/1