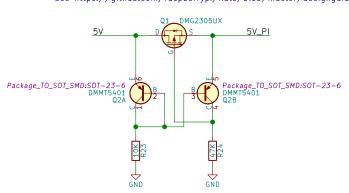
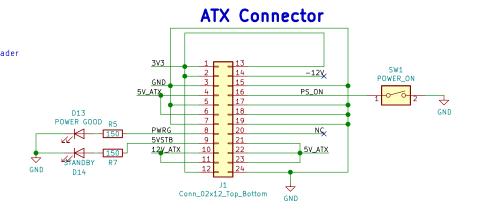
40-Pin HAT Connector

3V3_PI 1	40HAT P3V3	J3 P5V	1 2 5V_PI
12C_SDA 3	BCM2	P5V	4 5V_PI
I2C_SCL 5	BCM2 BCM3	GND	6 GND
1W 7	BCM3 BCM4	BCM14	8 ×
GND 9			10 ×
Valve_M2 11	GND	BCM15	12 LED_PWM
Valve_M3 13	BCM17	BCM18	14 GND
Valve_M4 15	BCM27	GND	16 Flow_C
3V3_PI 17	BCM22	BCM23	18 Flow_W
×19	P3V3	BCM24	20 GND
X 19	BCM10	GND	22 Trigger
× 21	ВСМ9	BCM25	
GND × 23 25	BCM11	BCM8	24×
	GND	BCM7	26 X
ID_SD_EEPROM 27	BCM0	BCM1	28 ID_SC_EEPROM
Pump_WC 29	BCM5	GND	30 GND
Pump_WW 31	ВСМ6	BCM12	32 Valve_M1
Pump_A 33	BCM13	GND	34 GND
Pump_M1	BCM19	BCM16	36 Valve_AL
Pump_M2 37	BCM26	BCM20	38 Valve_AR
GND 39	GND	BCM21	40 Valve_A0
	0110	DOME	J

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





Flowmeter

<u>12V</u>

<u>3V3_PI</u>

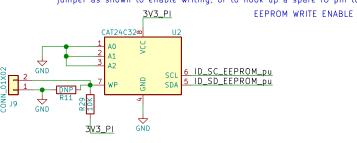
Flow_W 3V3_PI

A03400A

A03400A Q18



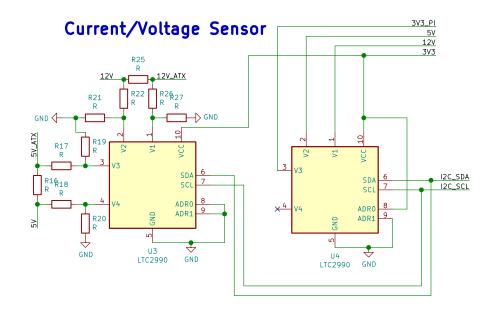
The HAT spec requires this EEPROM with system information to be in place in order to be called a HAT. It should be set up as write protected (WP pin held high), so it may be desirable to either put a jumper as shown to enable writing, or to hook up a spare IO pin to do so.

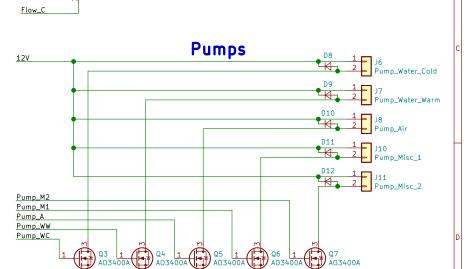


Pullup Resistors

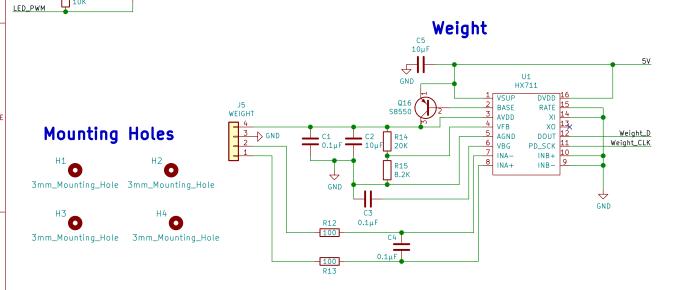
These are just pullup resistors for the I2C bus on the EEPROM. The resistor values are per the HAT spec.

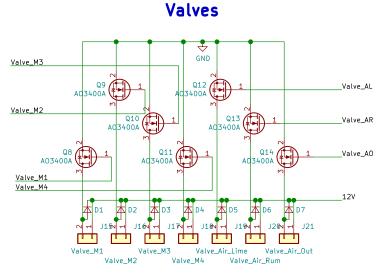






LEDs 5V







1 Wire Port

GND

