

Atmel ATMega 328P					
Pin #	Connection			Pin #	Connection
1	ISP Programmer			28	I2C - ATMega/Pi
2 3 4 5 6 7 8 9 10 11	Safety Stop Interrupt From Pi 3.3V supply voltage for ATMega GND supply for ATMega PWM fan control (Backup option) Air starve relay	(PCINT14/RESET) PC6 ☐ 1 (PCINT16/RXD) PD0 ☐ 2 (PCINT17/TXD) PD1 ☐ 3 (PCINT18/INT0) PD2 ☐ 4 (PCINT19/OC2B/INT1) PD3 ☐ 5 (PCINT20/XCK/T0) PD4 ☐ 6 VCC ☐ 7 GND ☐ 8 (PCINT6/XTAL1/TOSC1) PB6 ☐ 9 (PCINT7/XTAL2/TOSC2) PB7 ☐ 10 (PCINT21/OC0B/T1) PD5 ☐ 11 (PCINT22/OC0A/AIN0) PD6 ☐ 12 (PCINT23/AIN1) PD7 ☐ 13 (PCINT0/CLKO/ICP1) PB0 ☐ 14	28 PC5 (ADC5/SCL/PCINT13) 27 PC4 (ADC4/SDA/PCINT12) 26 PC3 (ADC3/PCINT11) 25 PC2 (ADC2/PCINT10) 24 PC1 (ADC1/PCINT9) 23 PC0 (ADC0/PCINT8) 22 GND 21 AREF 20 AVCC 19 PB5 (SCK/PCINT5) 18 PB4 (MISO/PCINT4) 17 PB3 (MOSI/OC2A/PCINT3) 16 PB2 (SS/OC1B/PCINT2) 15 PB1 (OC1A/PCINT1)	27 26 25 24 23 22 21 20 19 18	I2C - ATMega/Pi/ Voltage divider - Battery voltage Voltage divider - Fuel cell voltage Current sensor input GND 3.3V supply voltage for ATMega ISP Programmer ISP Programmer ISP Programmer PWM output for conditioning load
13 14				16 15	Prvvivi output for conditioning load