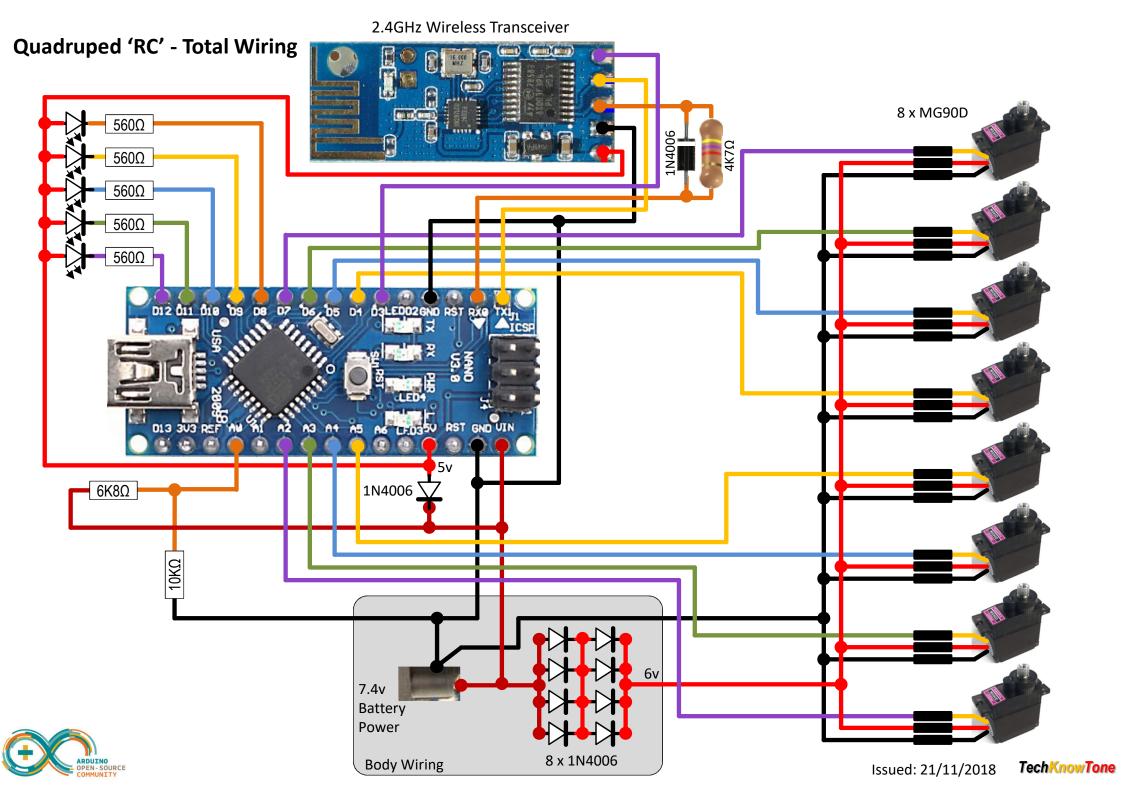
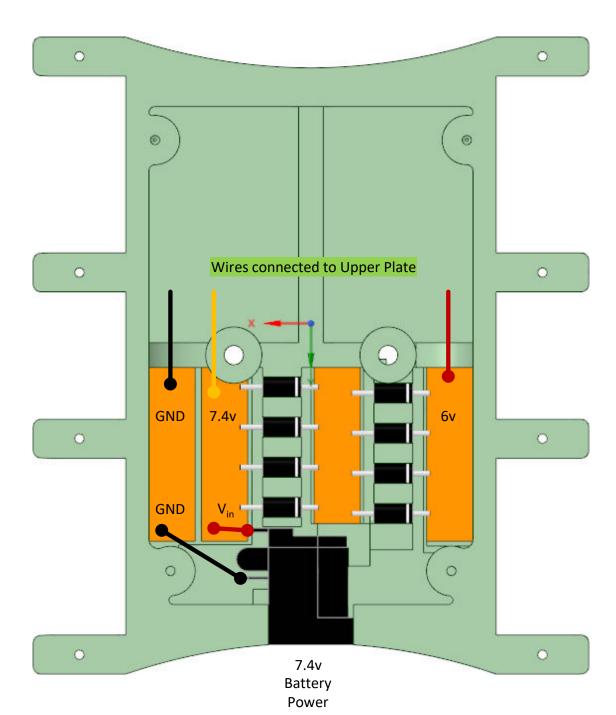
Quadruped 'RC' Robot

Wiring Diagrams





Quadruped 'RC' - Body Wiring

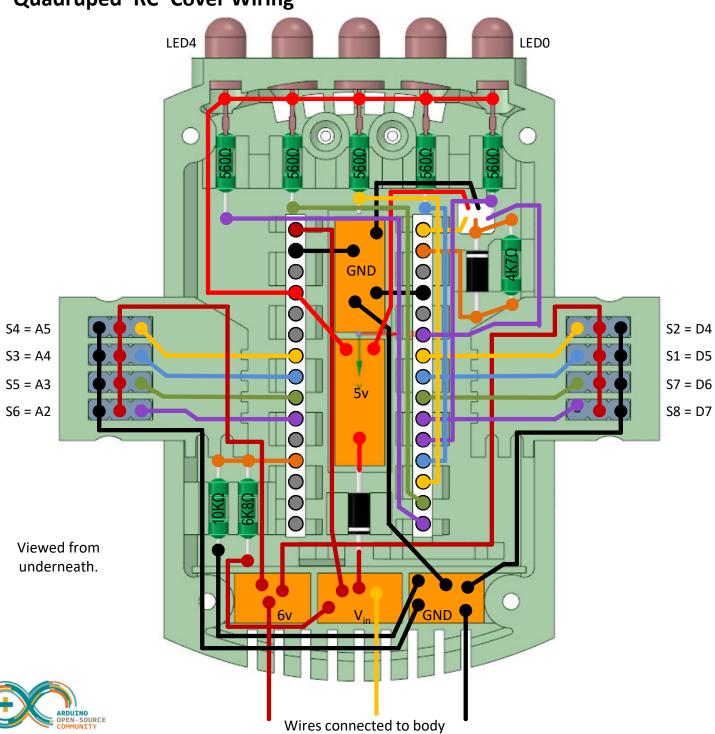


Viewed from above.



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Quadruped 'RC' Cover Wiring

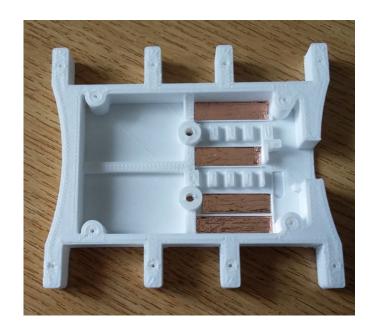




VIN	TX1
GND	RX0 🔵
RST	RST 🔵
S V	GND
O LED3	LED2
A 6	D3 🔵
A 5	D4 🔵
A 4	D5 🔵
A 3	D6 🔵
A 2	D7 🔵
A 1	D8O
A 0	D9 🔵
REF	D10 🔵
3 V3	D11 🔵
OD13	D12 🔵

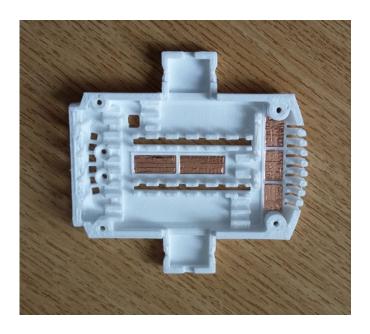
Underside View

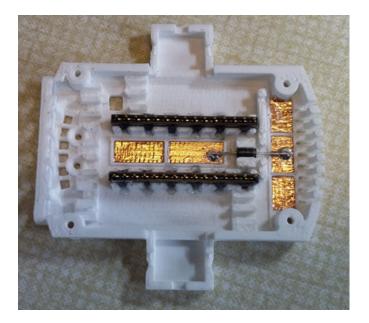
Issued: 21/11/2018

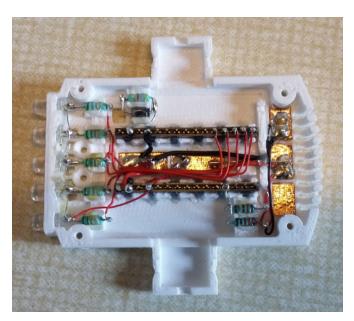




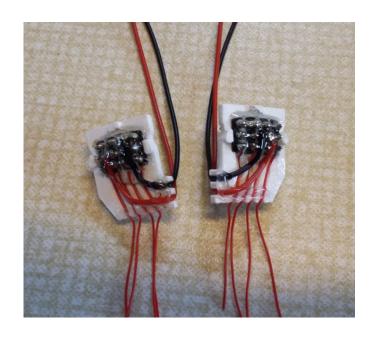


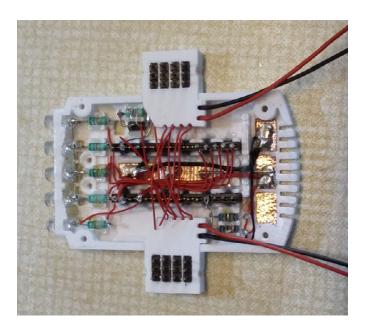


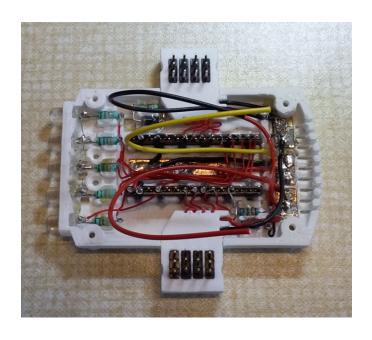


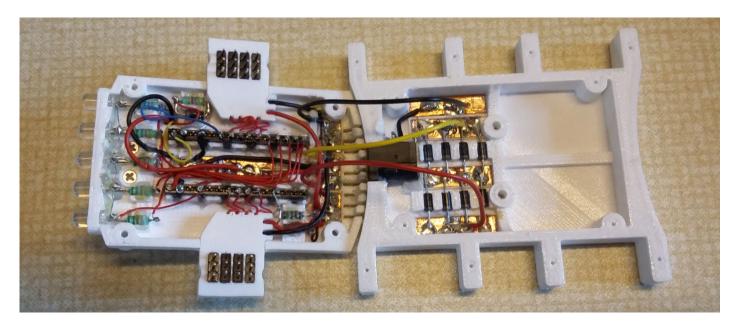






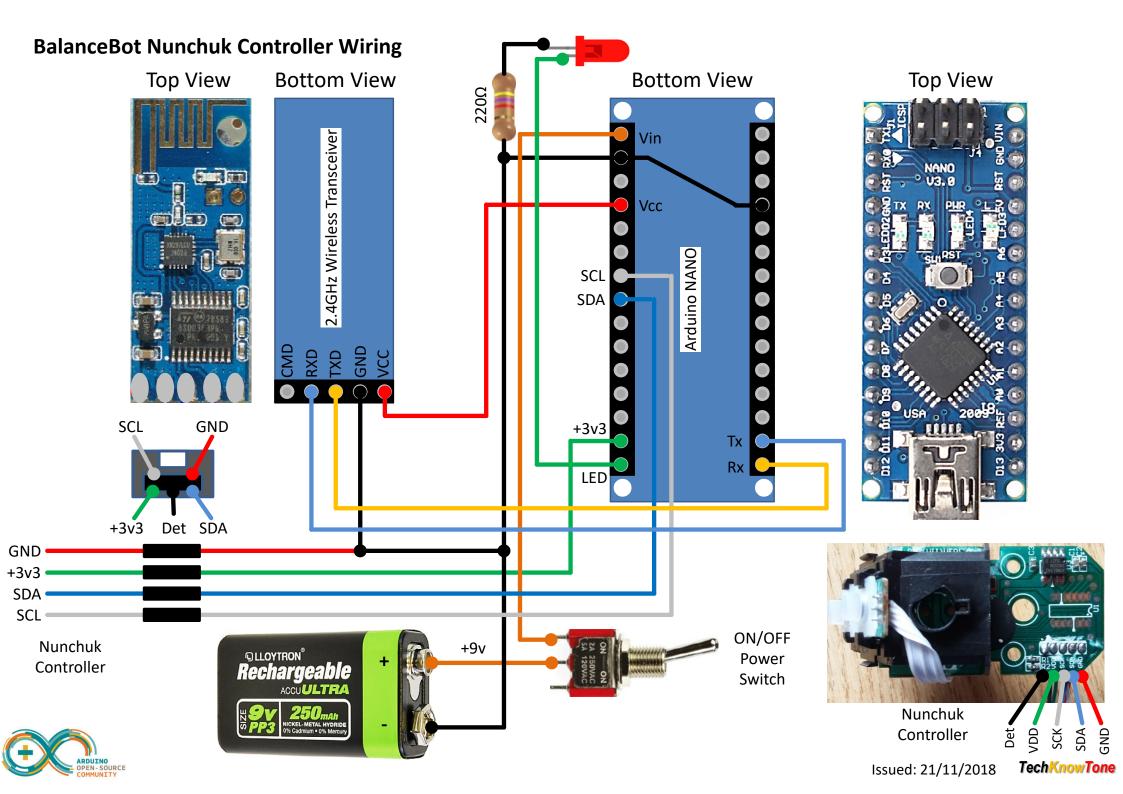


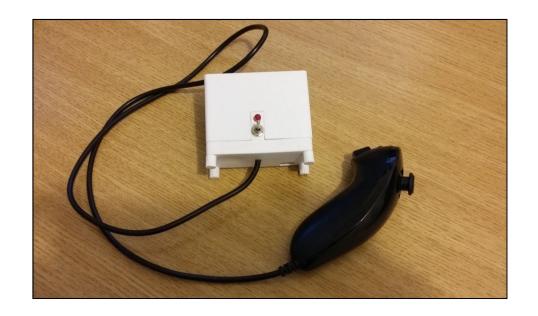


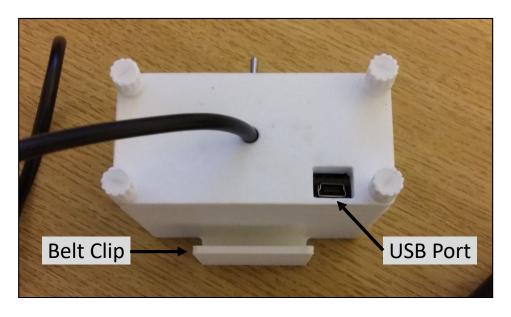


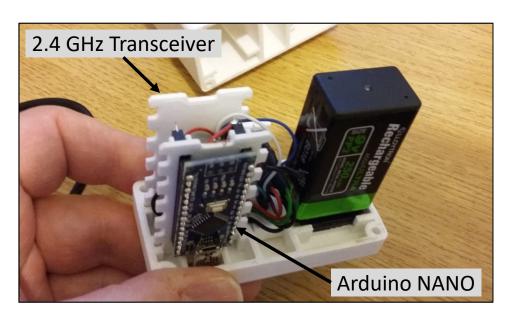


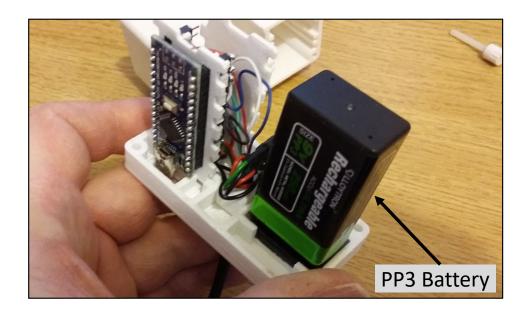




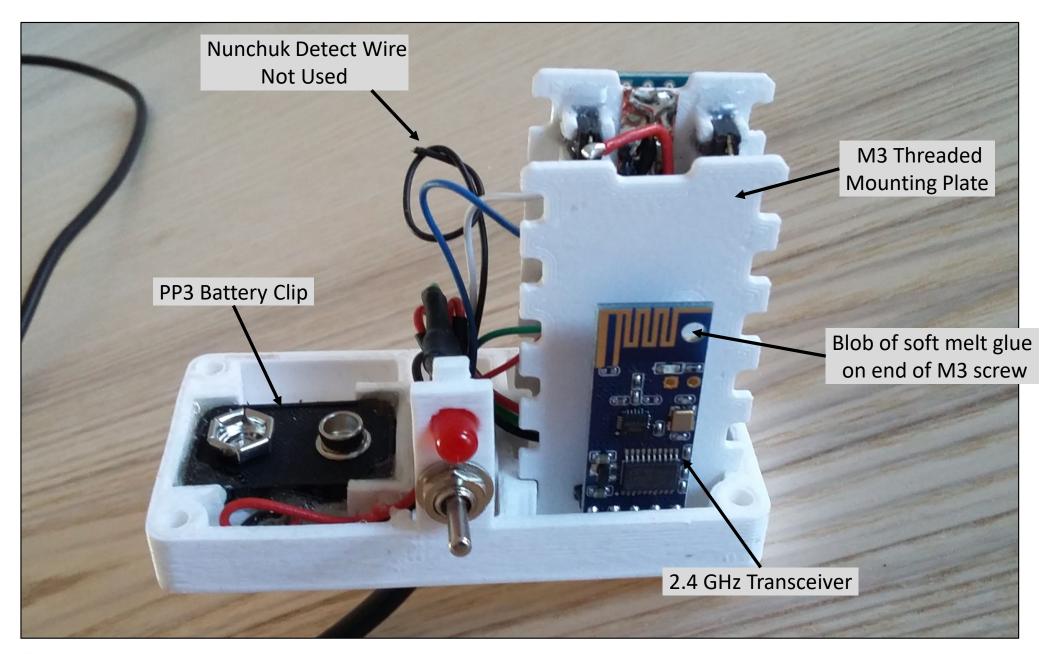




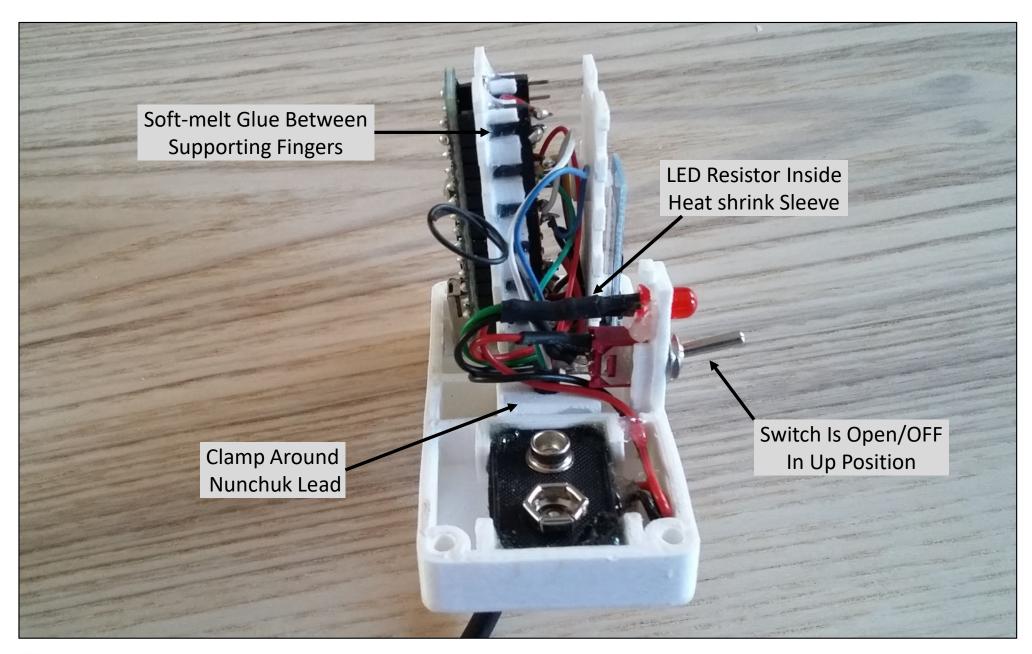




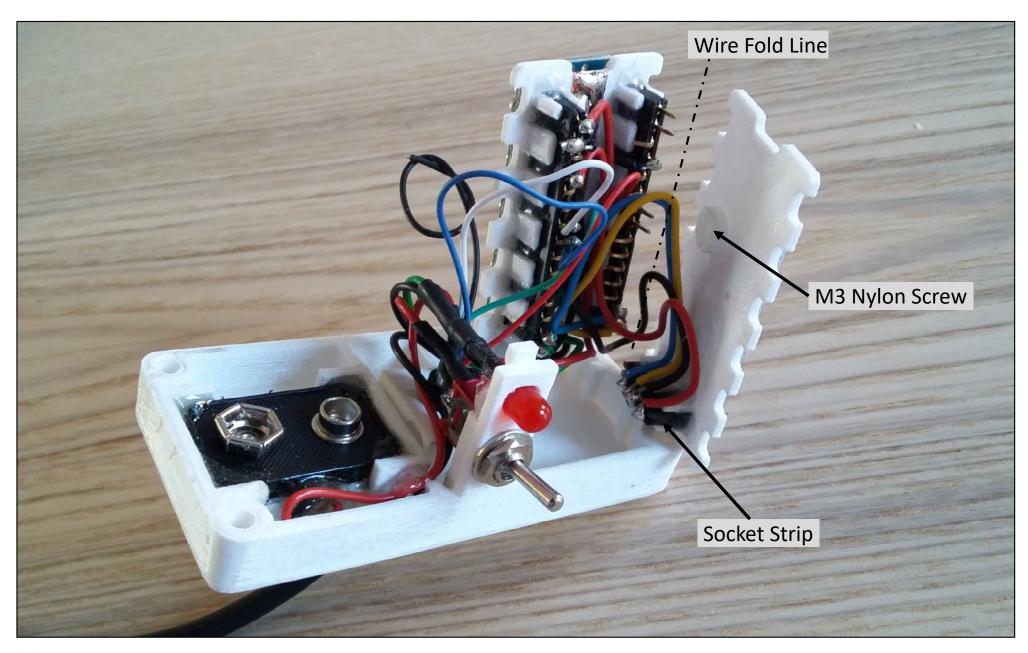




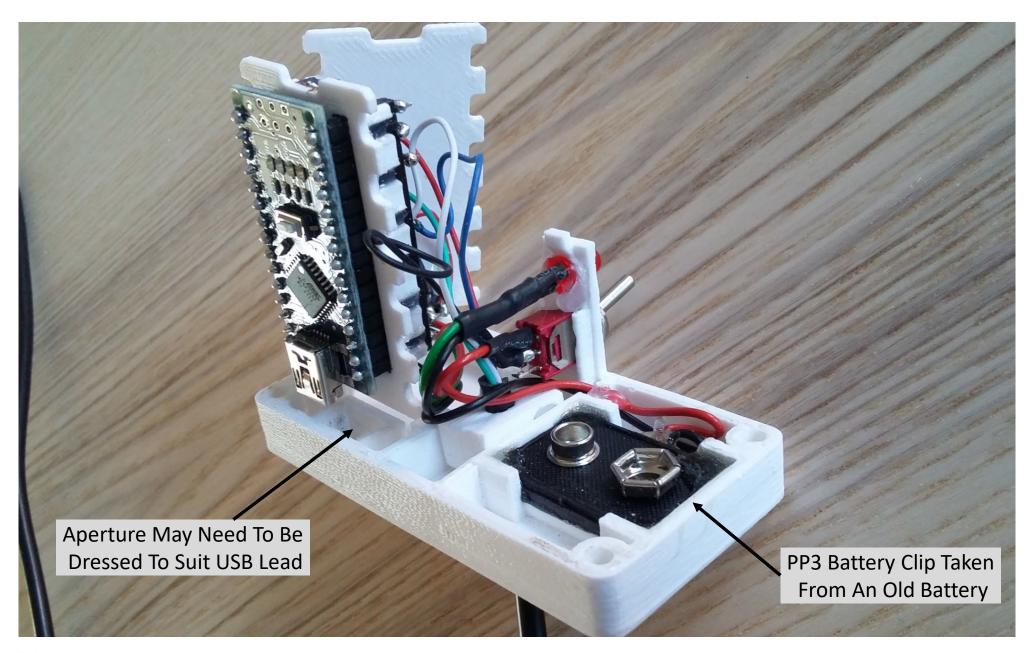






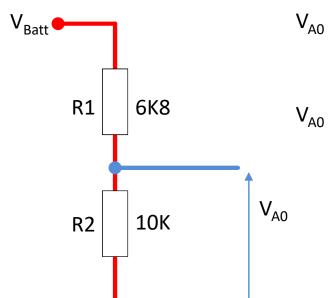








Quadruped Battery Monitor (Protection)



$$V_{A0} = \frac{V_{Batt} \times R2}{R1 + R2}$$

$$V_{AOD} = \frac{V_{AO} \times 1023}{5}$$

$$V_{A0} = \frac{V_{Batt} \times 10 K}{16 K8}$$

$$V_{AOD} = V_{Batt} \times 0.5952 \times 1023$$

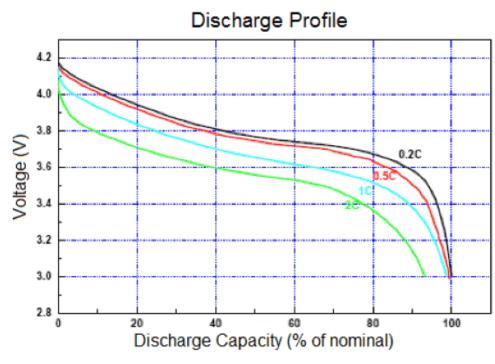
 $V_{FSD} = 8.4 \text{ volts}$

Two cells in series gives a nominal 7.4v constant discharge voltage. To prevent damage, stop using once the following conditions are reached:

$$3.70 + 3.00 = 6.70v$$
 (one battery fades early)

$$3.30 + 3.30 = 6.70v$$
 (both batteries fade together)

Hence
$$V_{A0D} = 804 @ V_{Batt} = 6.60v$$



Discharge: 3.0V cutoff at room temperature.



GND

