Lifter VI

VIBODHA B

UOC, UVA

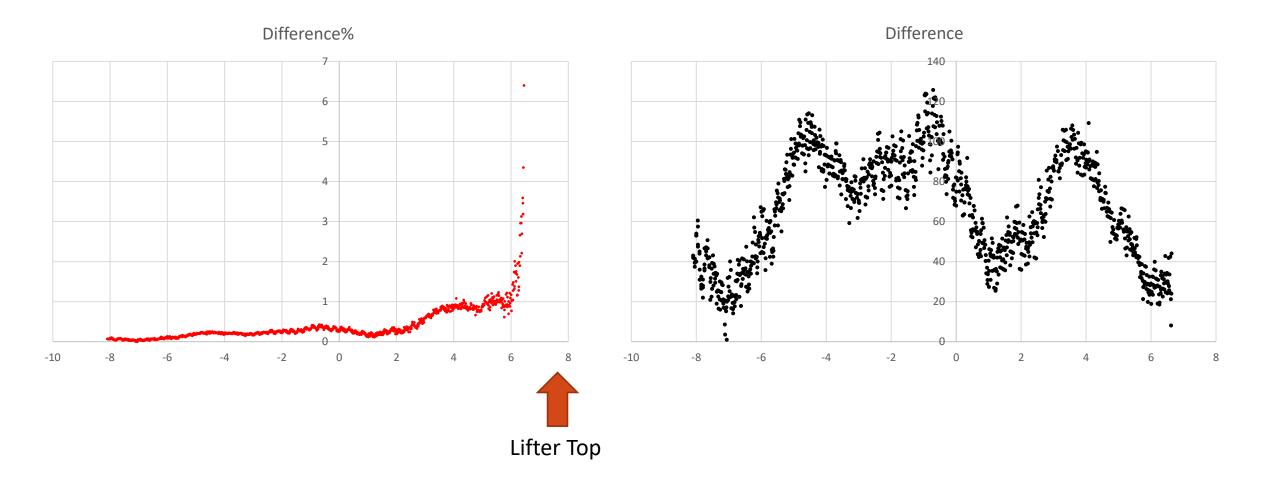
Updates on lifter

- Relationship between the ADC voltage vs Step count
 Y = 4009.5 X + 26560
- This trend line was calculated by moving the lifter up and down 8 times.
- X : ADC voltage , Y : Step count derived from ADC value

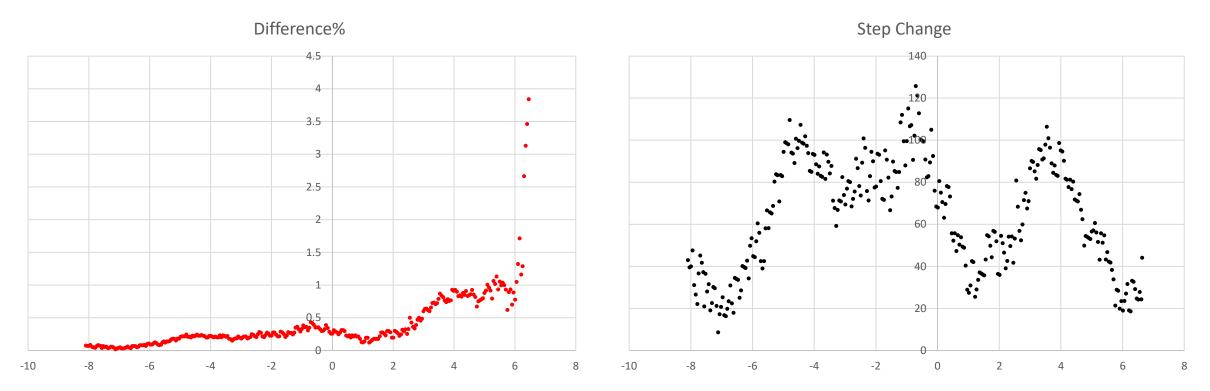
•	ADC (X)	Step count (S)	Estimated (Y)	Difference (Y-S)	Difference %

$$Difference\% = \frac{|Y - S|}{S} X100$$

Data set 1 Lifter movement : Top ---- > Bottom



Data set 2 Lifter movement : Top ---- > Bottom

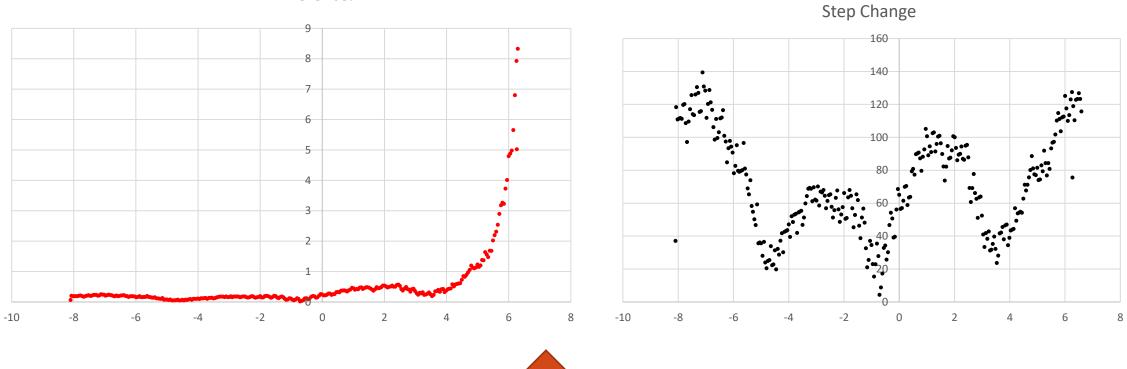




Data set 3

Lifter movement : Bottom ---- > Top

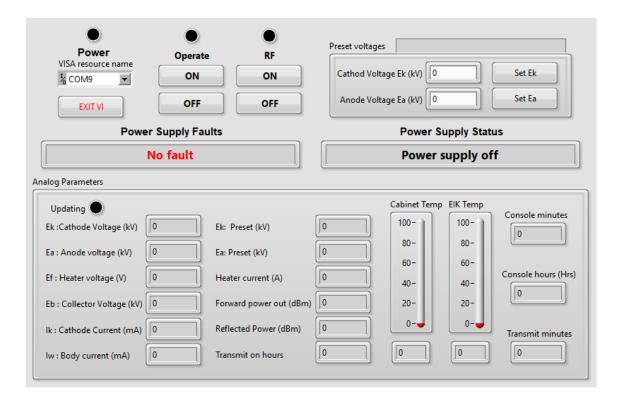
Difference%





I think the repeated pattern in the step difference plot is due to a synchronization issue when recording the ADC

I will re-record the ADC and step counts



Option to change voltages Need to go through

Thank You