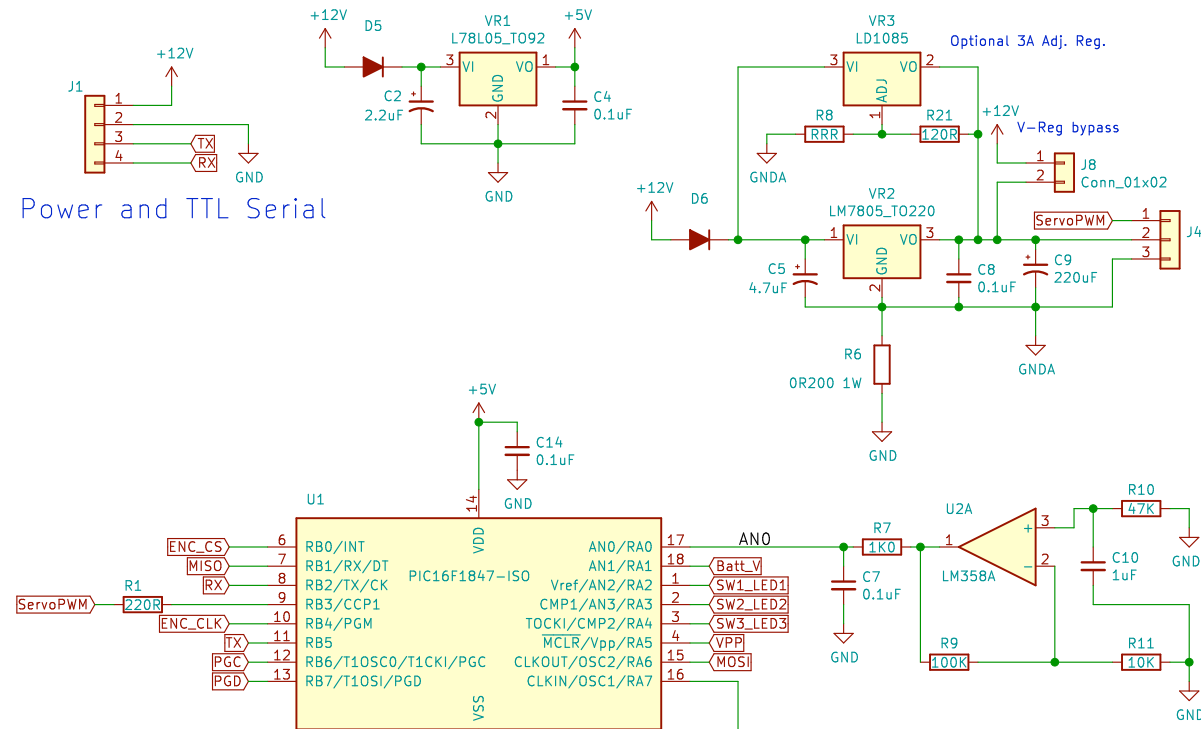
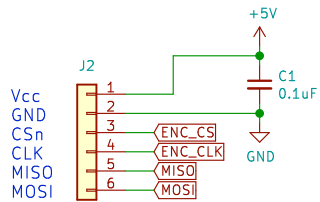
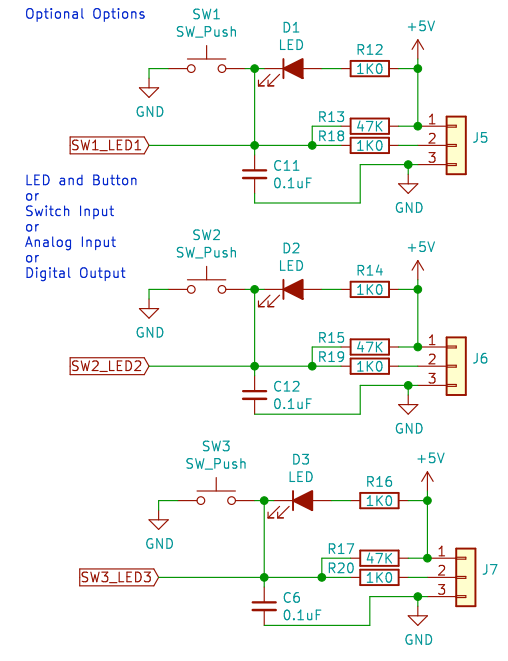


Rev. B 6/19/2018 Fixed J3 pinout, Fixed spacing of J4 to J2 to J7.  
 Rev. C 1/20/2019 Modified for AS5047D Encoder  
 Rev. D 8/29/2020 Added SW3/LED3 for home switch...

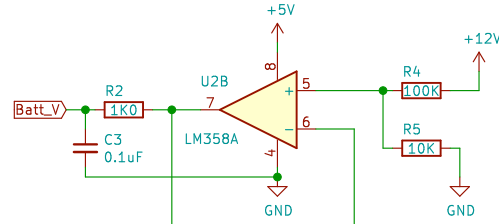
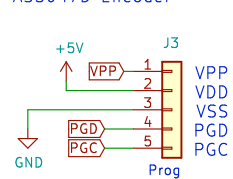
## Power and TTL Serial



## Optional Options



## AS5047D Encoder



Note: Analog Ref+ = 5.0V  
 Input voltage 6.5 to 16 volts.

C1,C3,C4,C6,C7,C8,C11,C12 0.1uf  
 C2 2.2uf  
 C5 4.7uf  
 C9 220uf  
 C10 1.0uf

R1 220R  
 R2,R3,R7,R12,R14,R16 1K0  
 R18,R19,R20 100K  
 R4,R9 10K  
 R5,R11 10K  
 R6 0R20  
 R8 ?K?? Adj Volts  
 R10,R13,R15,R17 47K  
 R21 120R

U1 PIC16F1847  
 U2 LM358A

AS5047D Magnetic Encoder w/ SPI  
 TTL serial r/c servo controller

DMFE

Sheet: /

File: SerialServo.sch

Title: Serial Servo

Size: A Date: 2020-08-29

KiCad E.D.A. kicad (5.99.0-823-ga085f82be)

Rev: D

Id: 1/1