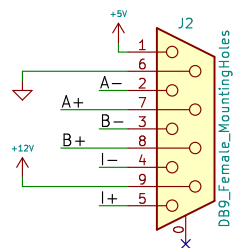
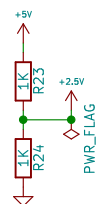


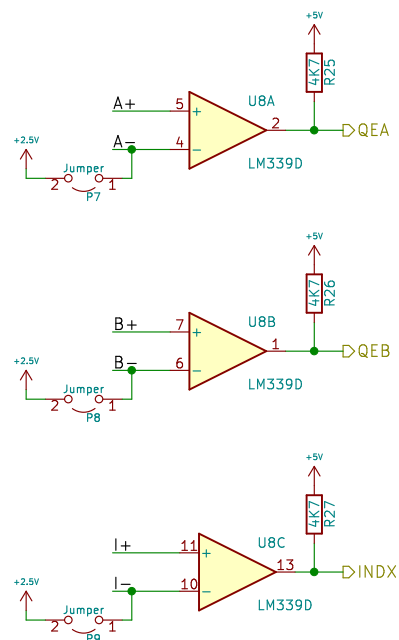
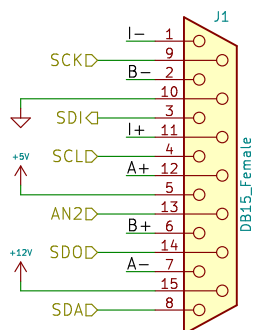
Power for the comparator



2.5V reference



NOTE: J1 is optional
For compatibility with
YAPSC:V2 (same pinout)



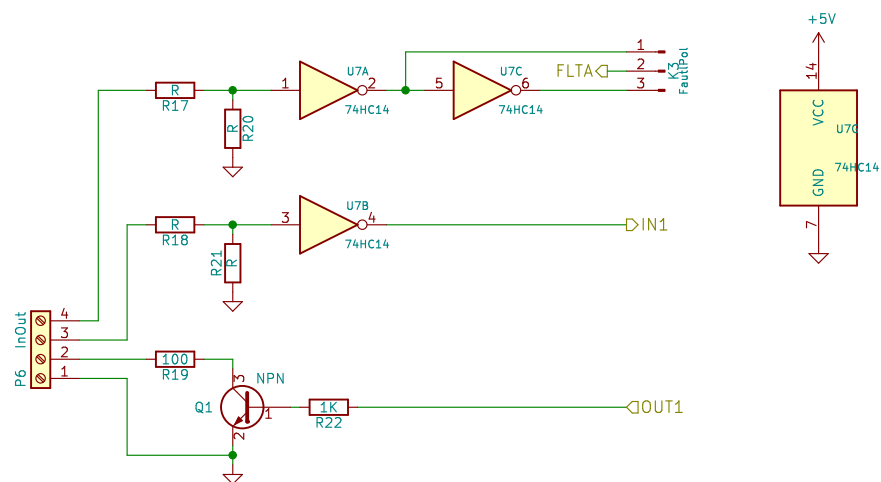
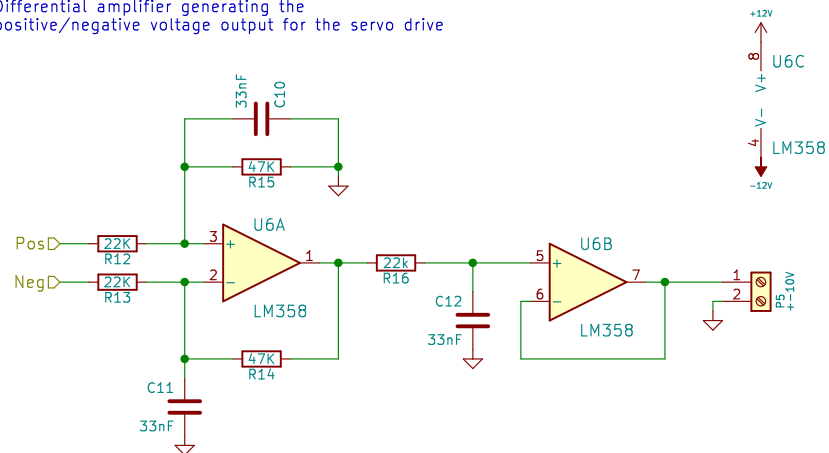
Sheet: /Encoder/
File: Encoder.sch

Title: YAPSCO:10V

Size: A4 Date: 2019-03-30
KiCad E.D.A. kicad (5.1.0)-1

Rev: A.1
Id: 2/6

Differential amplifier generating the positive/negative voltage output for the servo drive



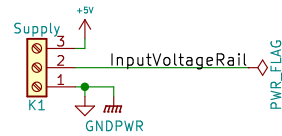
Sheet: /InterfaceDriver/
File: InterfaceDriver.sch

Title: YAPSCO:10V

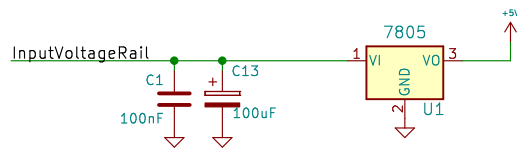
Size: A4 Date: 2019-03-30
KiCad E.D.A. kicad (5.1.0)-1

Rev: A.1
Id: 3/6

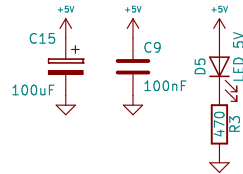
Input voltage connector with 5V out



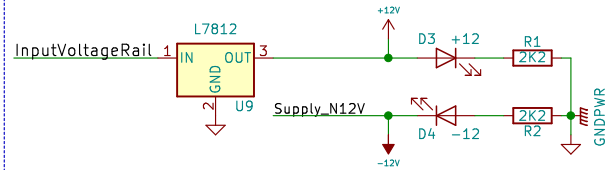
5V supply rail



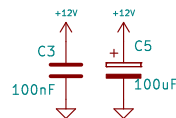
Bypass 5V rail



+12V/-12V supply rail



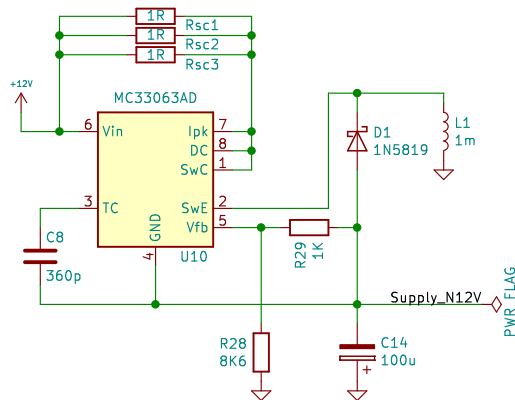
Bypass +12V rail



Bypass -12V rail



-12V onboard power supply
(Not needed if -12V is supplied directly from connector)
Component values are calculated with SMath-sheet



Sheet: /SupplyCircuit/
File: SupplyCircuit.sch

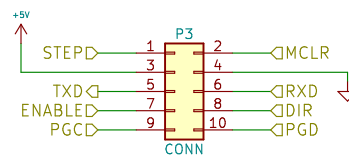
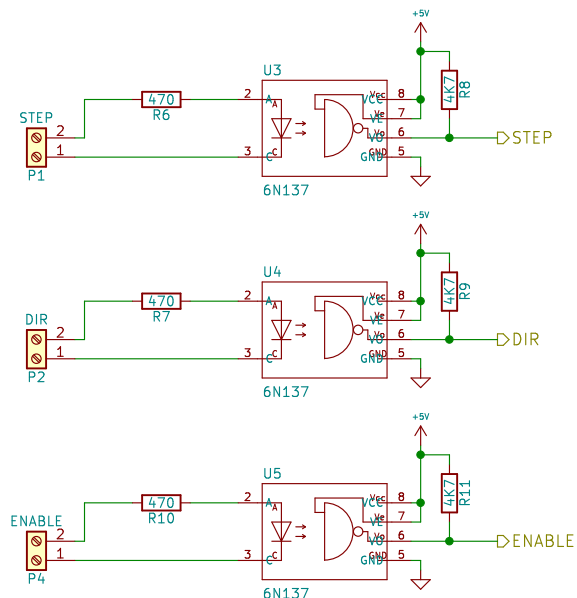
Title: YAPSCO:10V

Size: A4 Date: 2019-03-30
KiCad E.D.A. kicad (5.1.0)-1

Rev: A.1
Id: 4/6



Output from motion controller
– optically coupled for isolation



TXD, RXD are data pins for normal COMport.
MCLR, PGCD, PGD are ICSP programming pins for dsPIC.

Sheet: /MotionControllerInput/
File: MotionControllerInput.sch

Title: YAPSCO:10V

Size: A4 Date: 2019-03-30

KiCad E.D.A. kicad (5.1.0)-1

Rev: A.1

Id: 6/6