

distributed under CC-BY-SA-4.0  
 ayab-knitting.com

**matei**

Sheet: /  
 File: ayab-esp32.kicad\_sch

**Title: AYAB-ESP32 overview**

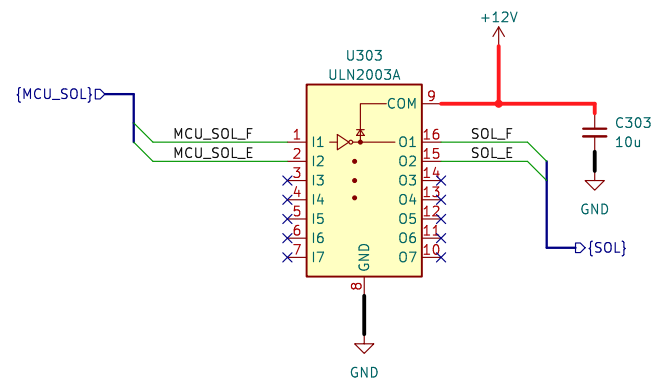
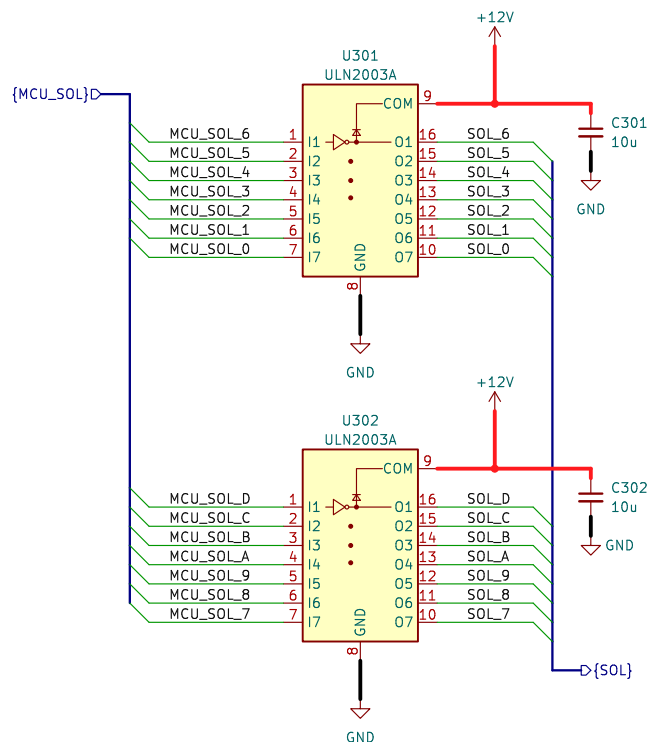
Size: A4 Date: 2023-07-17  
 KiCad E.D.A. kicad 7.0.6-0



Rev: 0.1  
 Id: 1/7



# SOLENOID DRIVERS



unmodified machine is 26W  
assuming all power is  
used by solenoids ~ 130mA each

ULN2003A max current 500mA each output  
2.5A package current max

distributed under CC-BY-SA-4.0  
ayab-knitting.com

**matei**

Sheet: /SOLENOID DRIVERS/  
File: solenoids.kicad\_sch

**Title: SOLENOID DRIVERS**

Size: A4 Date: 2023-07-17

KiCad E.D.A. kicad 7.0.6-0

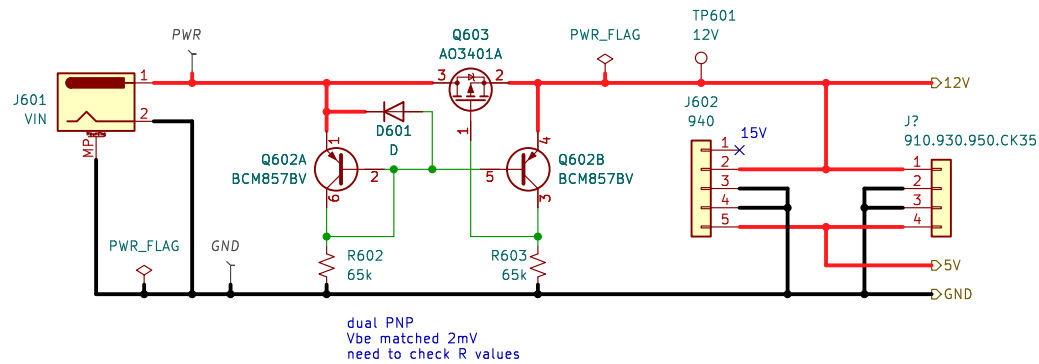
**Rev: 0.1**

Id: 3/7

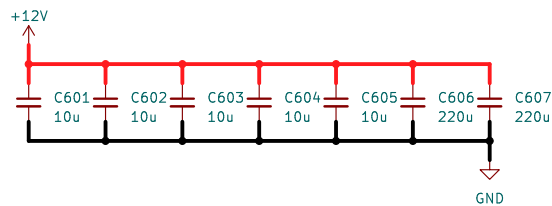
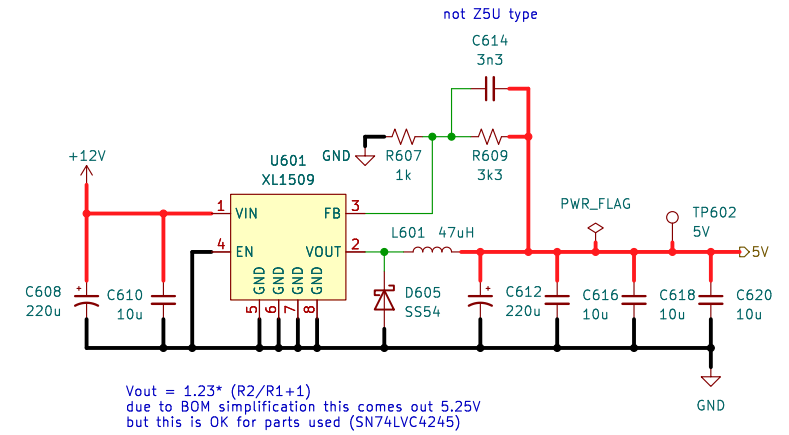


Id: 5/7

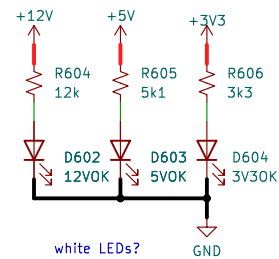
BARREL JACK / BROTHER INPUT  
POLARITY PROTECTION  
ZERO VOLT DIODE



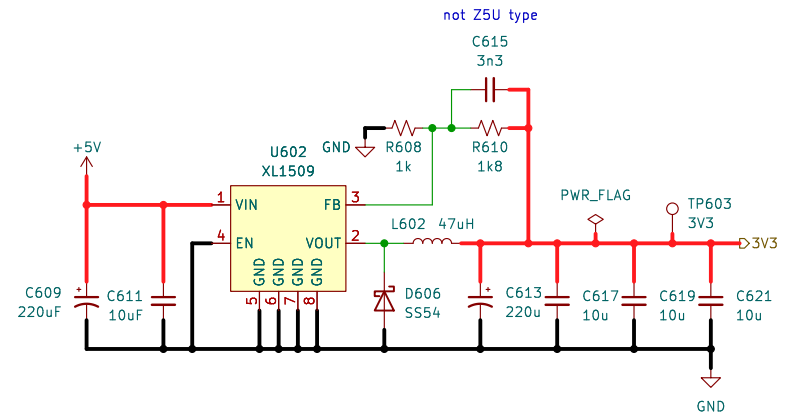
#### 5V SUPPLY



#### INDICATORS



#### 3V3 SUPPLY



distributed under CC-BY-SA-4.0

ayab-knitting.com

**matei**

Sheet: /PSU/

File: psu.kicad\_sch

**Title: POWER SUPPLY**

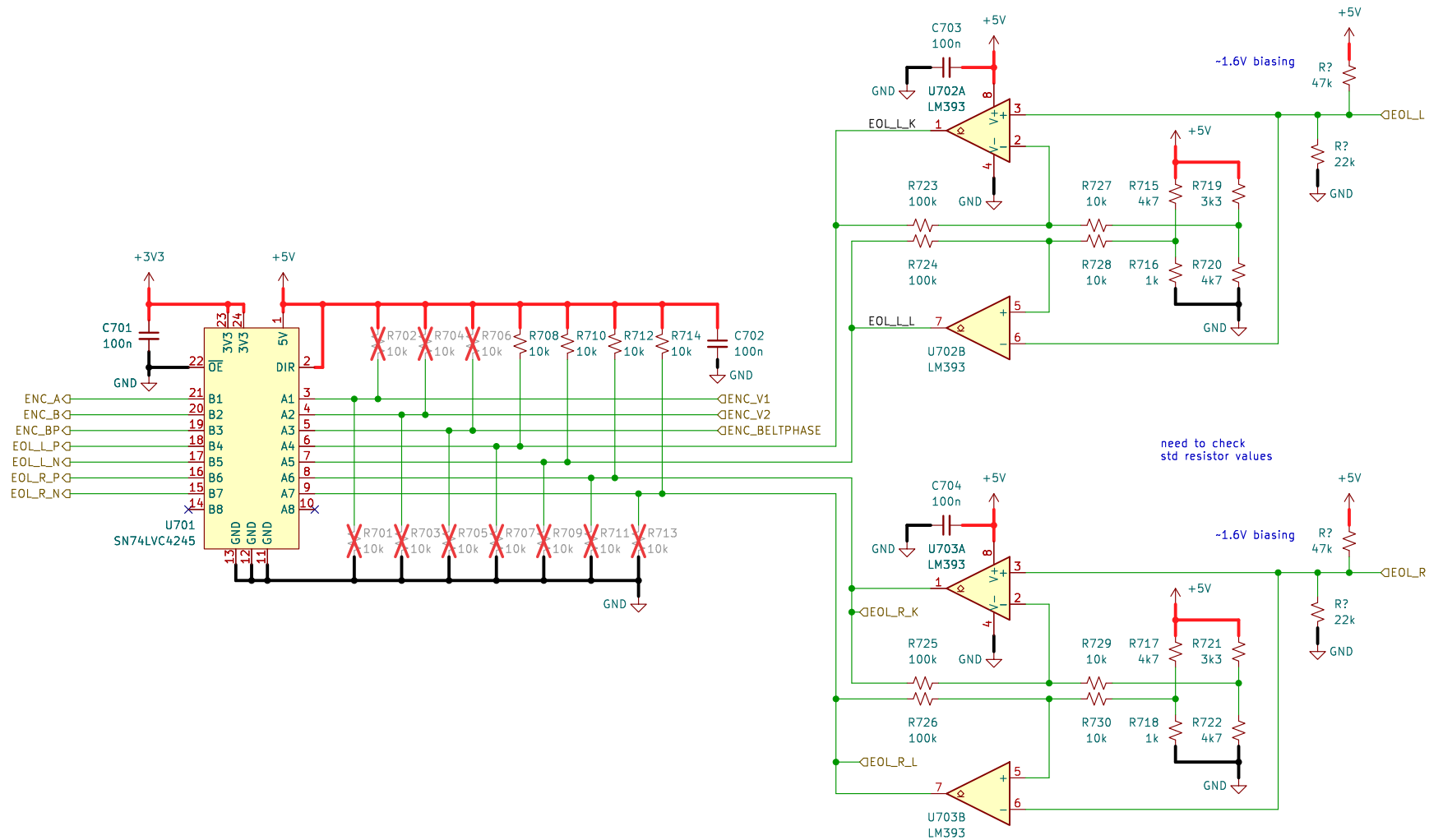
Size: A4

Date: 2023-07-17

KiCad E.D.A. kicad 7.0.6-0

**Rev: 0.1**

Id: 6/7



distributed under CC-BY-SA-4.0

ayab-knitting.com

**matei**

Sheet: /IO CONDITIONING/

File: ioconditioning.kicad\_sch

**Title: I/O CONDITIONING**

Size: A4

Date: 2023-07-27

KiCad E.D.A. kicad 7.0.6-0

**Rev: 0.1**

Id: 7/7