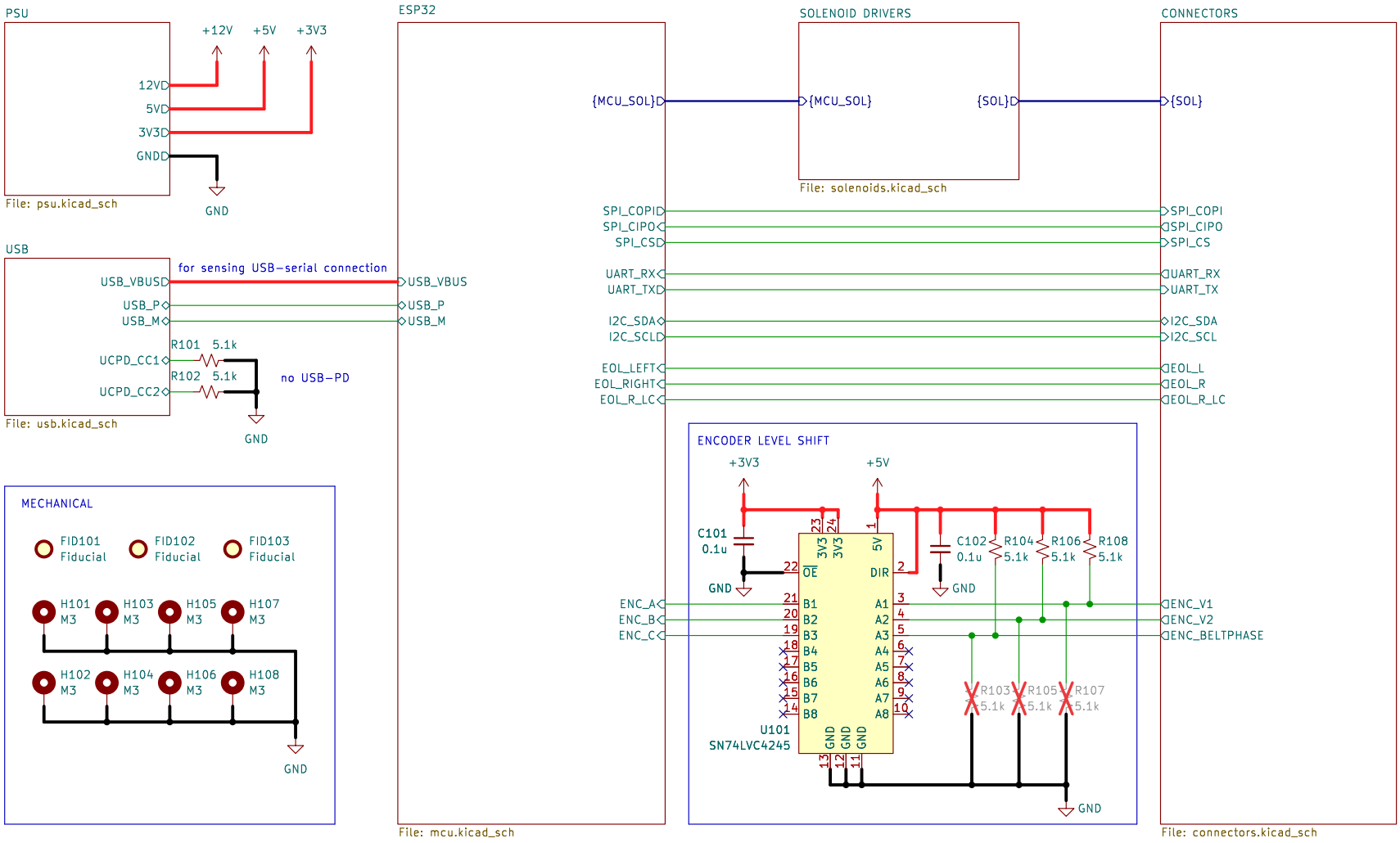

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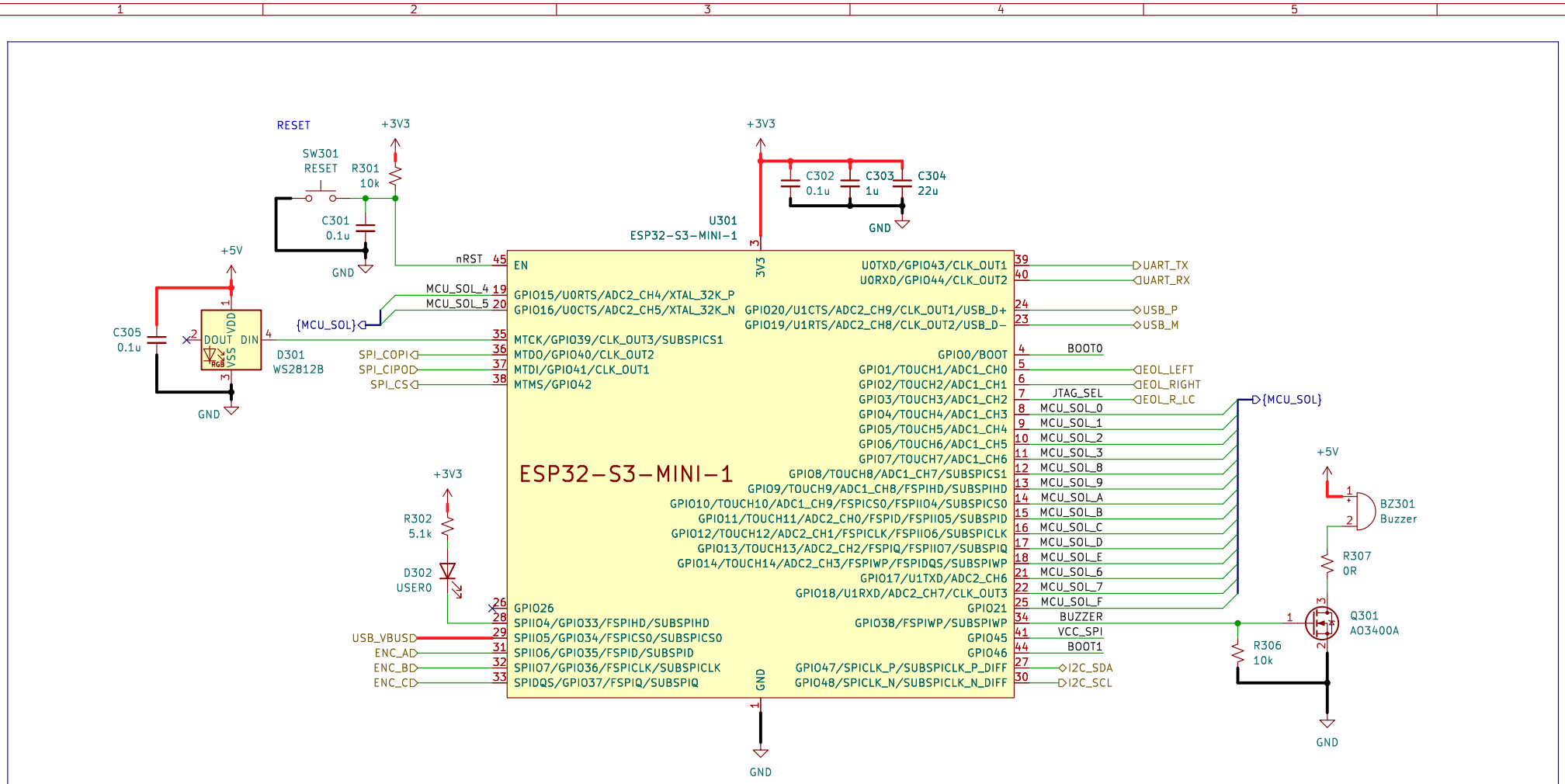
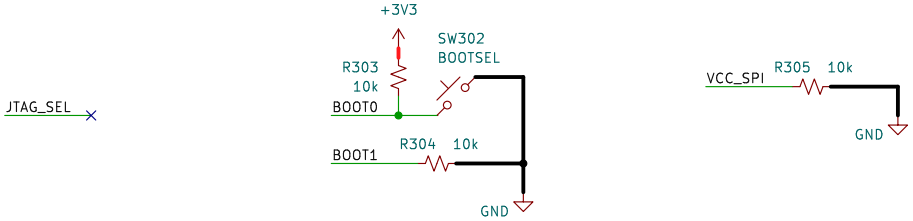
File: ayab-esp32.kicad_sch

Title: AYAB-ESP32 overview

Size: A4	Date: 2023-07-17	**Rev: 0.1**
KiCad E.D.A. kicad 7.0.5-0		Id: 1/6



ESP32 CONFIGURATION



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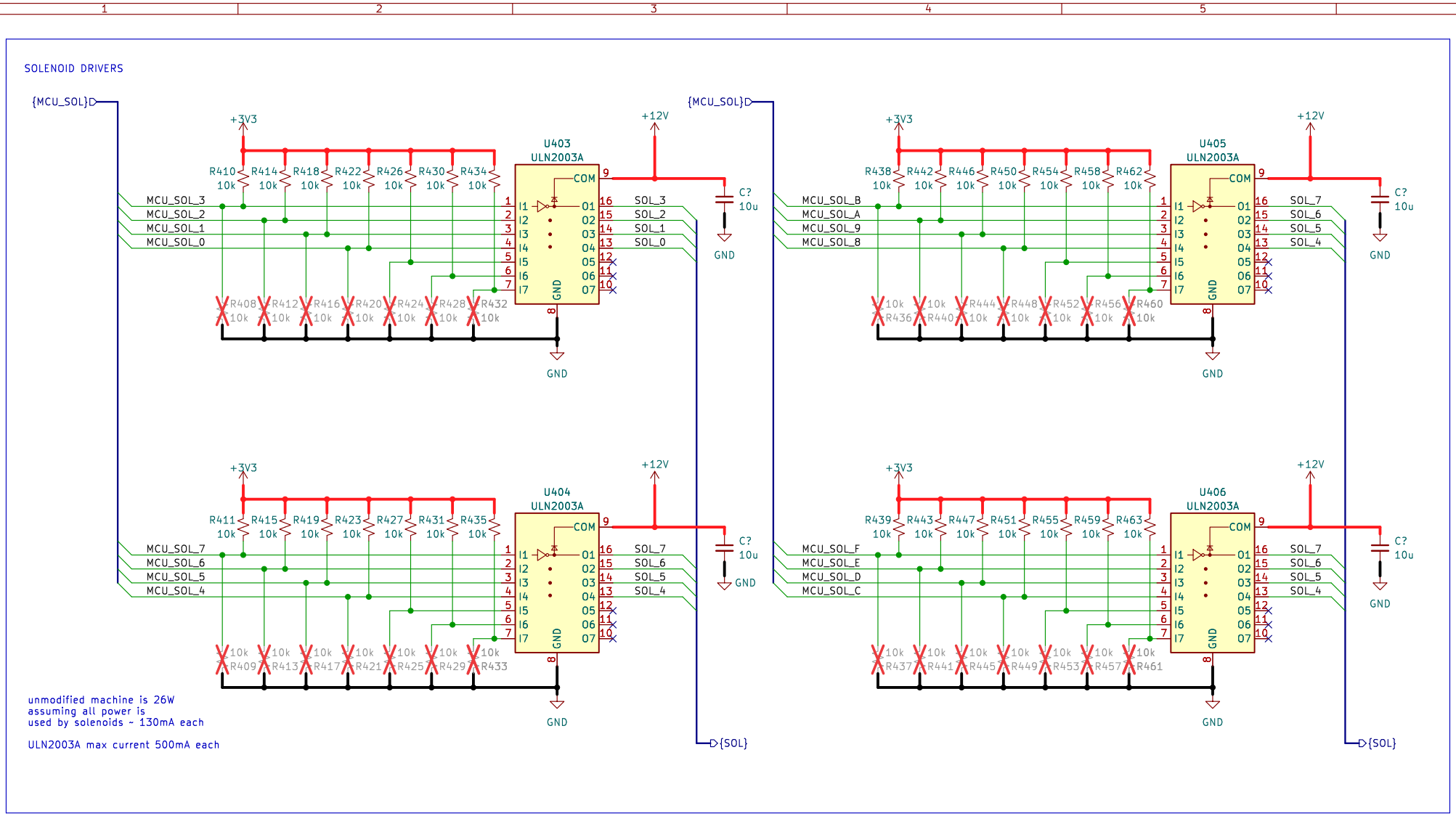
Size: A4	Date: 2023-07-17	**Rev: 0.1**
KiCad E.D.A. kicad 7.0.5-0		Id: 2/6



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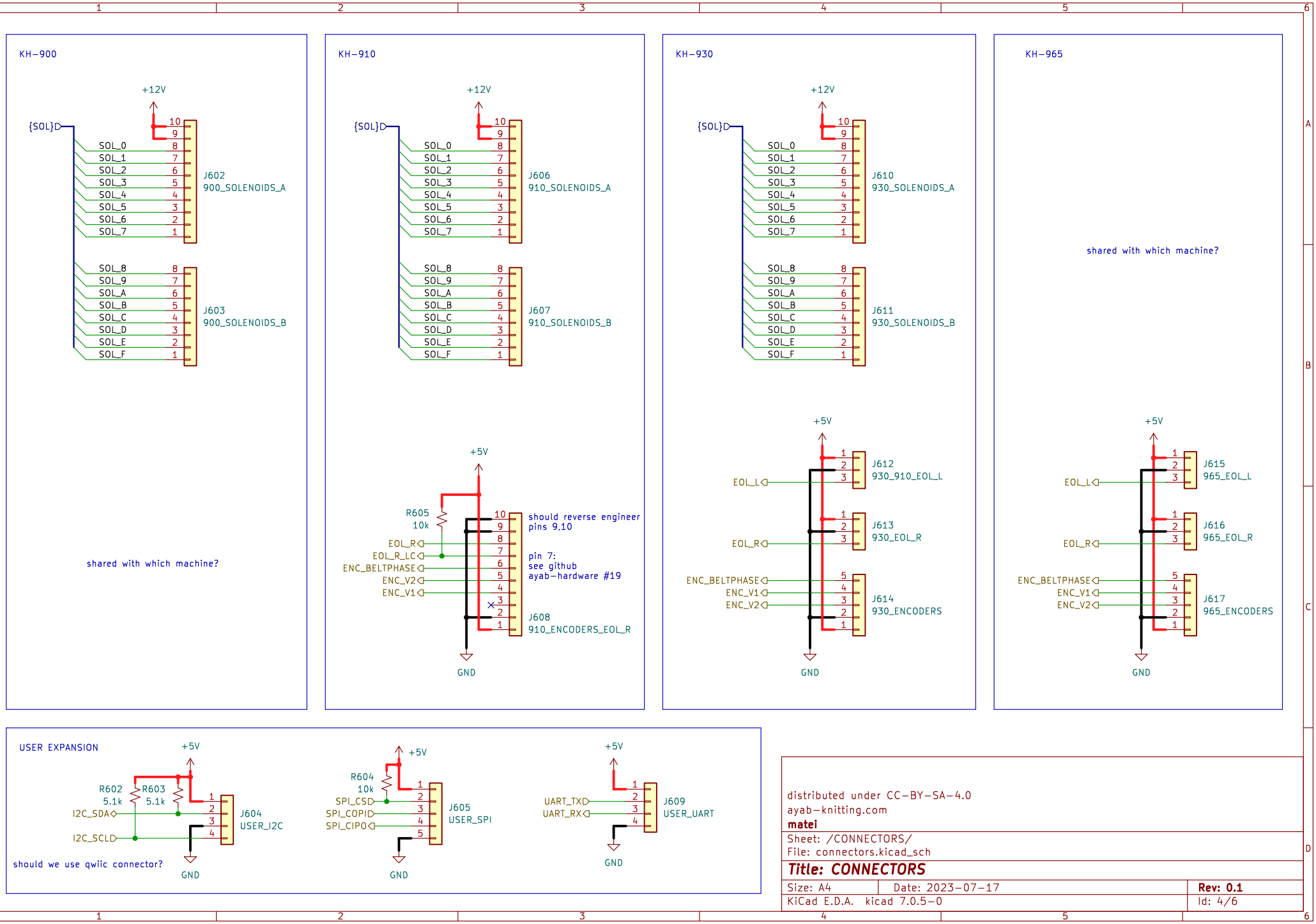
File: solenoids.kicad_sch

Title: SOLENOID DRIVERS

Size: A4	Date: 2023-07-17	**Rev: 0.1**
KiCad E.D.A. kicad 7.0.5-0		Id: 3/6


KH-900
+12V
{SOL}
SOL_0
SOL_1
SOL_2
SOL_3
SOL_4
SOL_5
SOL_6
SOL_7
J602
900_SOLENOIDS_A
SOL_8
SOL_9
SOL_A
SOL_B
SOL_C
SOL_D
SOL_E
SOL_F
J603
900_SOLENOIDS_B
shared with which machine?
KH-910
+12V
{SOL}
J606
910_SOLENOIDS_A
J607
910_SOLENOIDS_B
+5V
R605
10k
EOL_R
EOL_R_LC
ENC_BELTPHASE
ENC_V2
ENC_V1
should reverse engineer
pins 9,10
pin 7:
see github
ayab-hardware #19
J608
910_ENCODERS_EOL_R
GND
KH-930
+12V
{SOL}
J610
930_SOLENOIDS_A
J611
930_SOLENOIDS_B
+5V
EOL_L
EOL_R
ENC_BELTPHASE
ENC_V1
ENC_V2
J612
930_910_EOL_L
J613
930_EOL_R
J614
930_ENCODERS
GND
KH-965
shared with which machine?
+5V
EOL_L
EOL_R
ENC_BELTPHASE
ENC_V1
ENC_V2
J615
965_EOL_L
J616
965_EOL_R
J617
965_ENCODERS
GND
USER EXPANSION
+5V
R602
5.1k
R603
5.1k
I2C_SDA
I2C_SCL
J604
USER_I2C
should we use qwiic connector?
GND
+5V
R604
10k
SPI_CS
SPI_COPI
SPI_CIPO
J605
USER_SPI
GND
+5V
UART_TX
UART_RX
J609
USER_UART
GND
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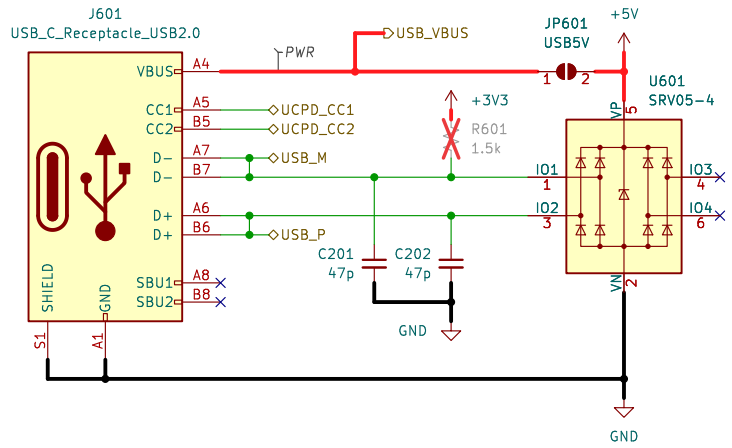
Sheet: /CONNECTORS/
File: connectors.kicad_sch
Title: CONNECTORS
Size: A4
Date: 2023-07-17
Rev: 0.1
KiCad E.D.A. kicad 7.0.5-0
Id: 4/6



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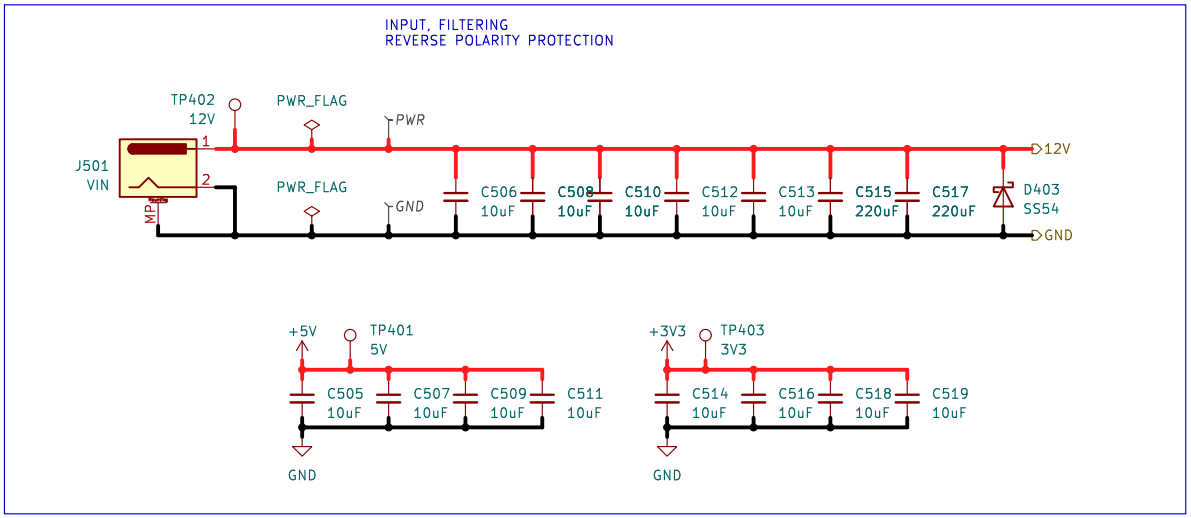
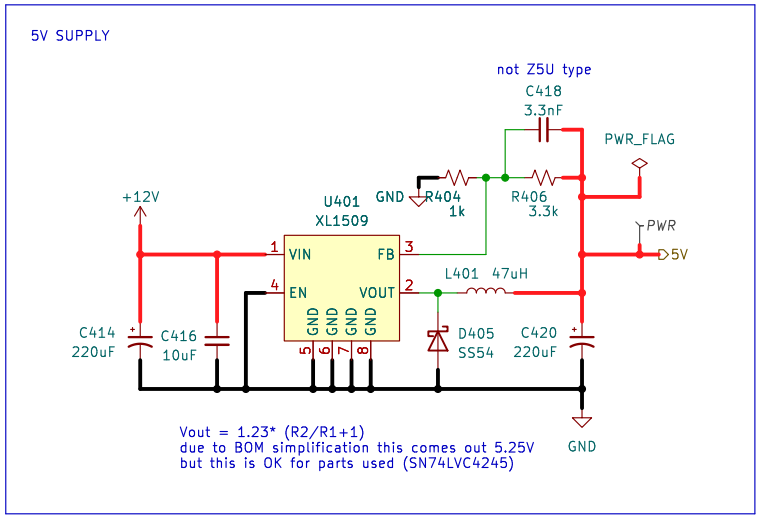
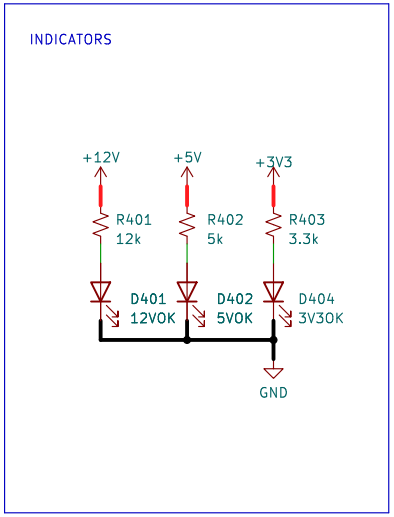
Sheet: /USB/
File: usb.kicad_sch

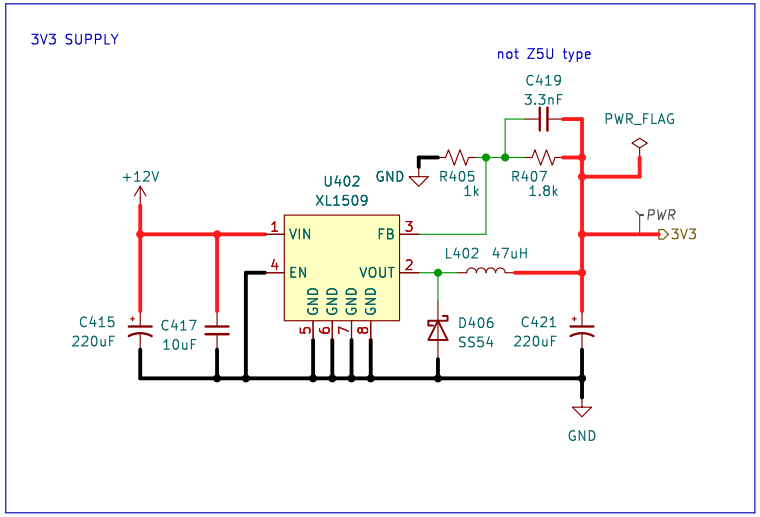
Title: USB & ESD

Size: A4	Date: 2023-07-17	**Rev: 0.1**
KiCad E.D.A. kicad 7.0.5-0		Id: 5/6









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Sheet: /PSU/
File: psu.kicad_sch

Title: POWER SUPPLY

Size: A4	Date: 2023-07-17	**Rev: 0.1**
KiCad E.D.A. kicad 7.0.5-0		Id: 6/6