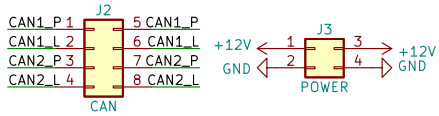
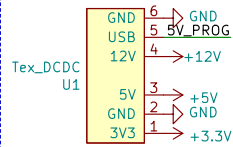


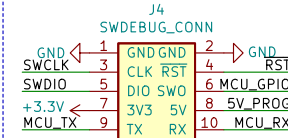
CAN POWER CONNECTORS



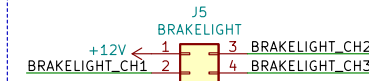
DCDC



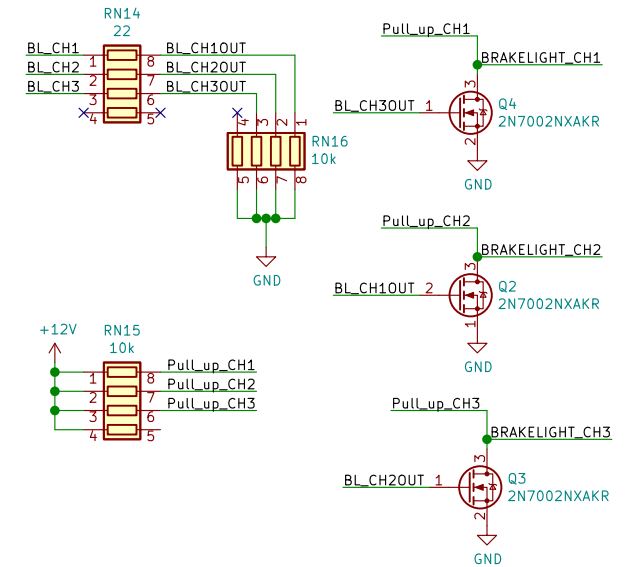
DEBUG



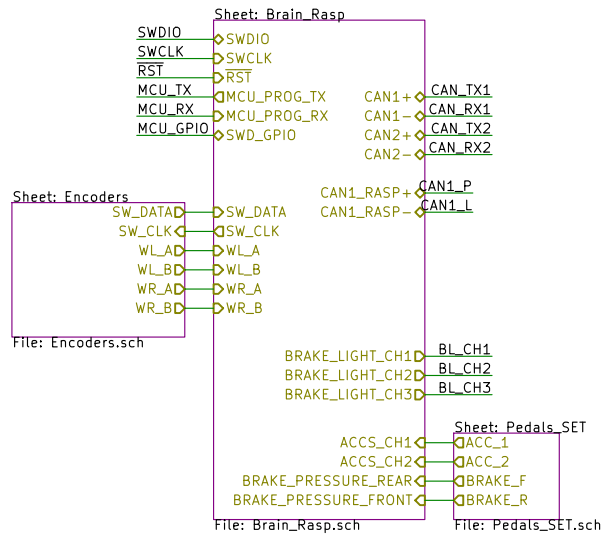
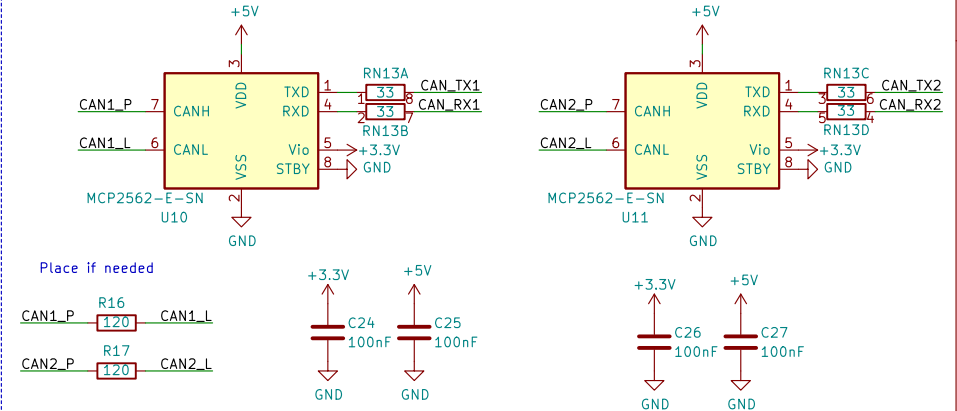
BRAKELIGHT



CONTROLL PWM SIGNAL BRAKELIGHT



CAN INTERFACE WITH TRANCIVER FOR F446



E-Agle TRT

Sheet: /
File: DAS_ECU.sch

Title: DAS+ECU

Size: A4 Date: 2021-12-13

KiCad E.D.A. kicad (5.1.10)-1

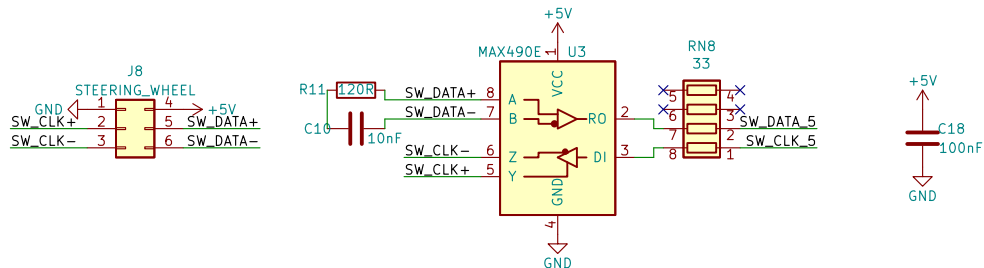
Rev: v1

Id: 1/4

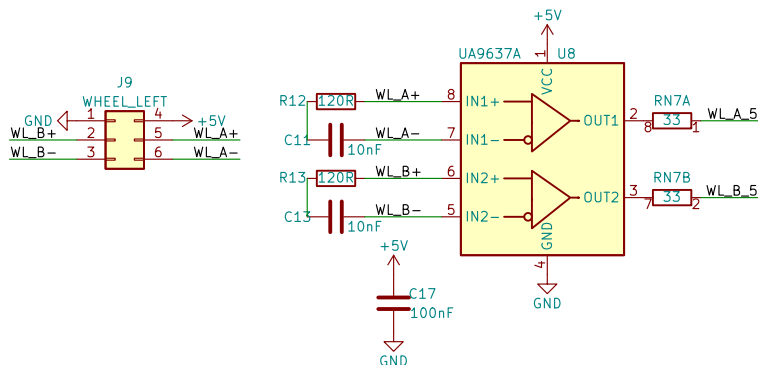
Steering Wheel Encoder

Steering Wheel Encoder:
RLS RM44SC0012B10F2F10

Cable:
-Vdd: Red
-GND: Blue
-Clock+: White
-Clock-: Brown
-Data+: Green
-Data-: Yellow



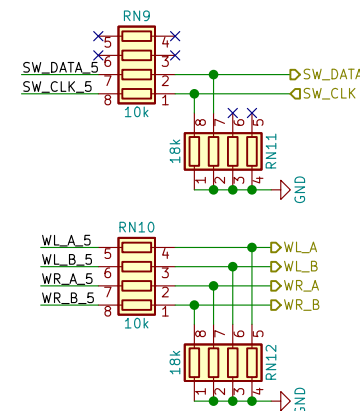
LEFT WHEEL ENCODER



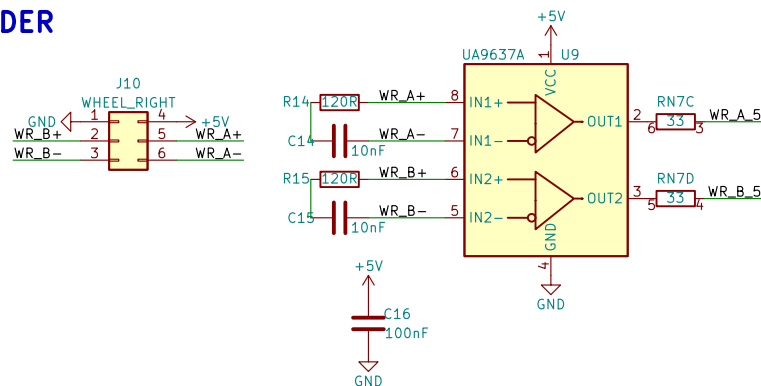
Radial incremental magnetic rings:
RLS MR075E060A120B00
-outer diameter: 57mm
-cross section height: 10mm
-radial magnetisation
-inner diameter: 85mm
-with reference mark
-number of poles: 120

Wheel Encoder:
RLS LM13ICD40AB10F00
-RS422
-interpolation factor: 400

Cable:
-5V: Brown
-GND: White
-A+: Green
-A-: Yellow
-B+: Blue
-B-: Red



RIGHT WHEEL ENCODER



E-Agle TRT

Sheet: /Encoders/
File: Encoders.sch

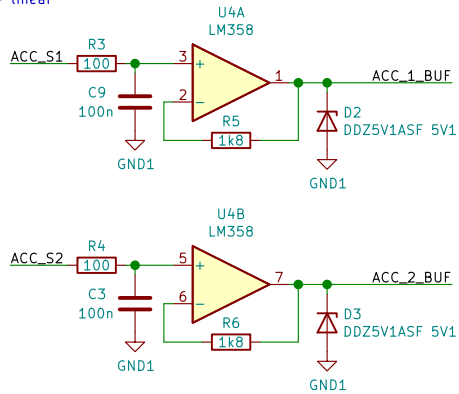
Title: DAS+ECU

Size: A4 Date: 2021-12-13
KiCad E.D.A. kicad (5.1.10)-1

Rev: v1
Id: 2/4

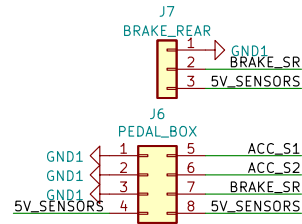
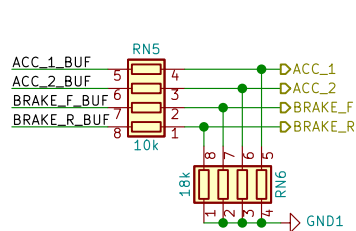
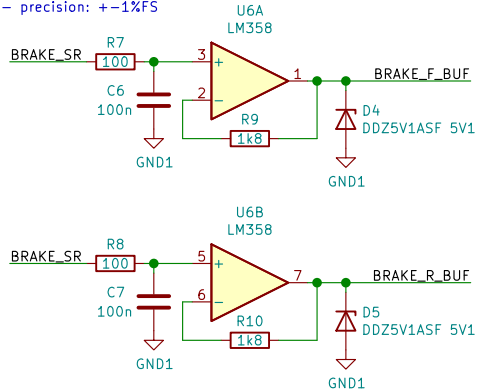
ACCELERATOR

Accelerator potentiometer:
Aviorace DIA95-25
- resistance: 1.7kOhm
- linear



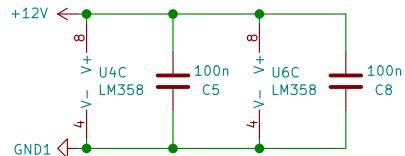
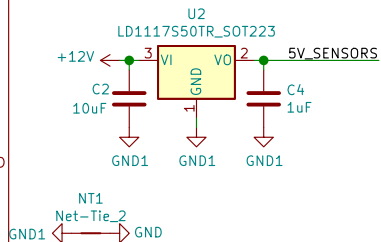
BRAKES

Brake pressure transducers:
Aviorace SP100
- ratiometric
- input: 0-100 bar
- output: 0.5-4.5 V
- precision: $\pm 1\%$ FS

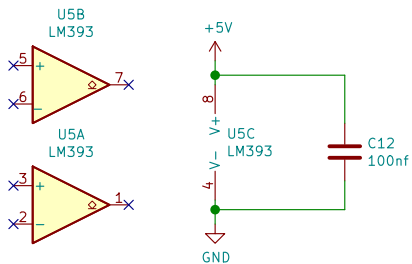


POWER

Output current @5V:
- Brake transducers: $2 \times 5.5\text{mA} = 11\text{mA}$
- Accelerator potentiometers: $2 \times 3\text{mA} = 6\text{mA}$
Power dissipated: 0.12W



TODO whatever is this



E-Agle TRT

Sheet: /Pedals_SET/
File: Pedals_SET.sch

Title: DAS+ECU

Size: A4 Date: 2021-12-13

KiCad E.D.A. kicad (5.1.10)-1

Rev: v1

Id: 3/4

