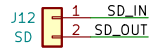


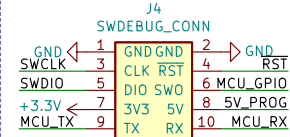
## CAN POWER CONNECTORS



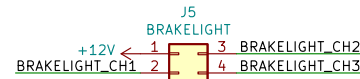
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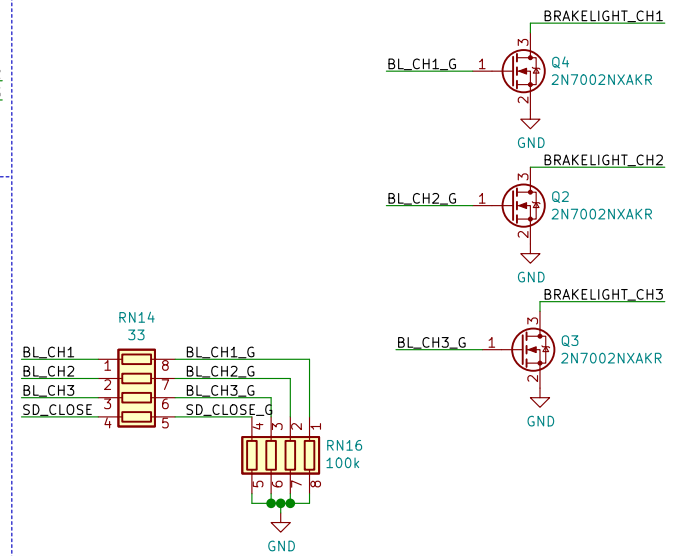
## DEBUG



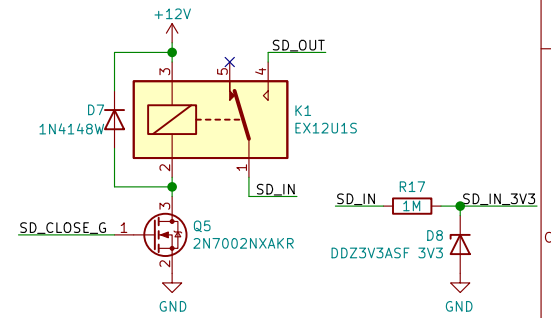
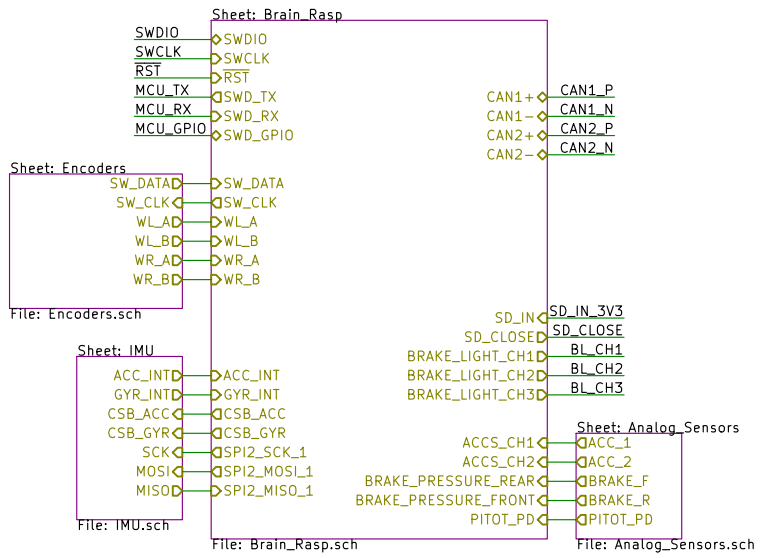
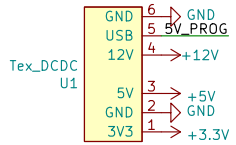
## BRAKELIGHT



## BRAKELIGHT



## DCDC



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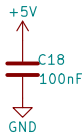
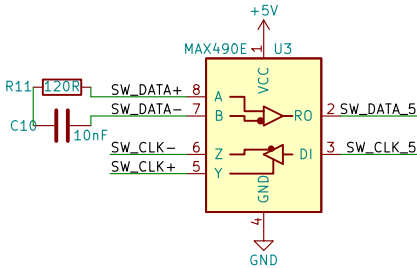
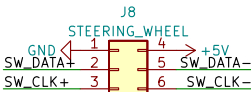
Rev: v1.0

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# Steering Wheel Encoder

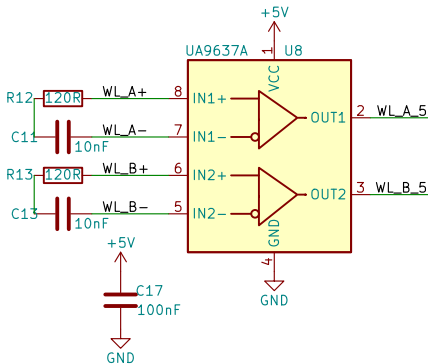
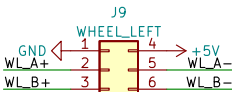
Steering Wheel Encoder:  
RLS RM44SC0012B10F2F10

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



TODD: check if footprint is correct, not sure

## LEFT WHEEL ENCODER

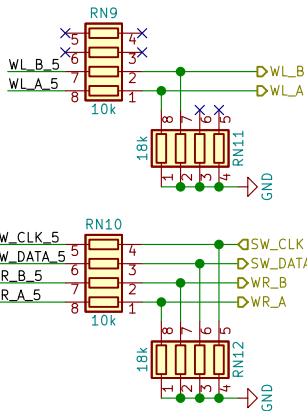
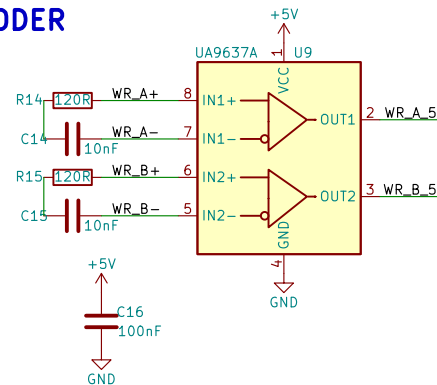
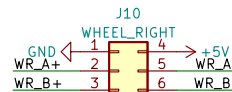


Radial incremental magnetic rings:  
RLS MR075E060A120B00  
-outer diameter: 57mm  
-cross section height: 10mm  
-radial magnetisation  
-inner diameter: 85mm  
-with reference mark  
-number of poles: 120

Wheel Encoder:  
RLS LM131CD40AB10F00  
-RS422  
-interpolation factor: 400

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

## RIGHT WHEEL ENCODER



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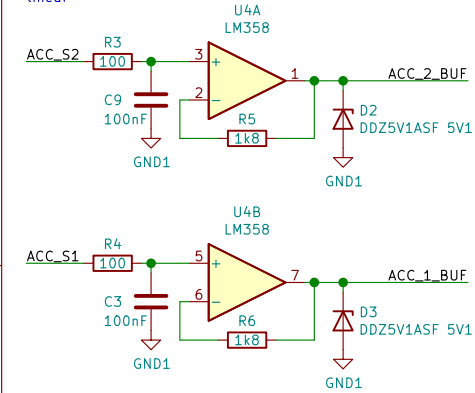
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Rev: v1.0  
Id: 2/5

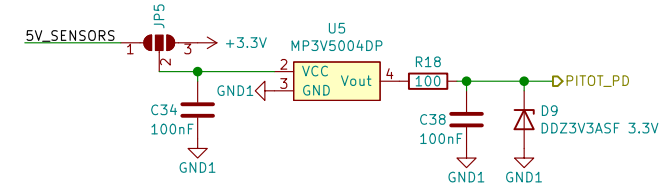
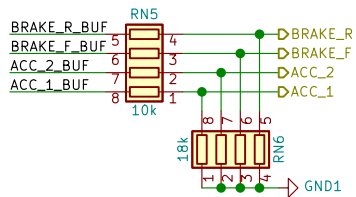
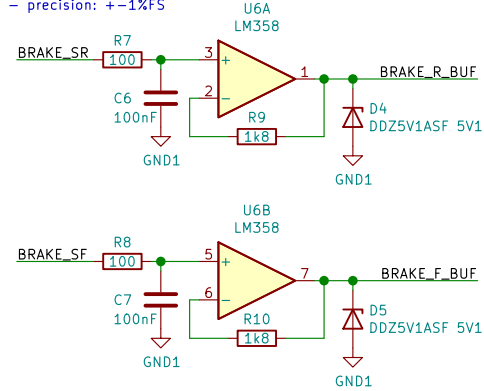
## ACCELERATOR

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



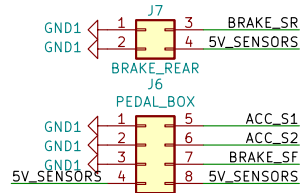
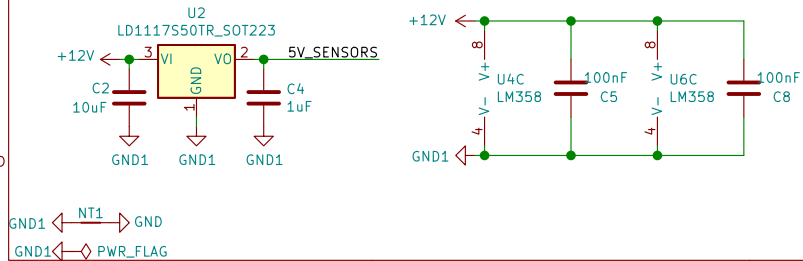
## BRAKES

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



## POWER

Output current @5V:  
- Brake transducers: 2x5.5mA=11mA  
- Accelerator potentiometers: 2x3mA=6mA  
Power dissipated: 0.12W



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