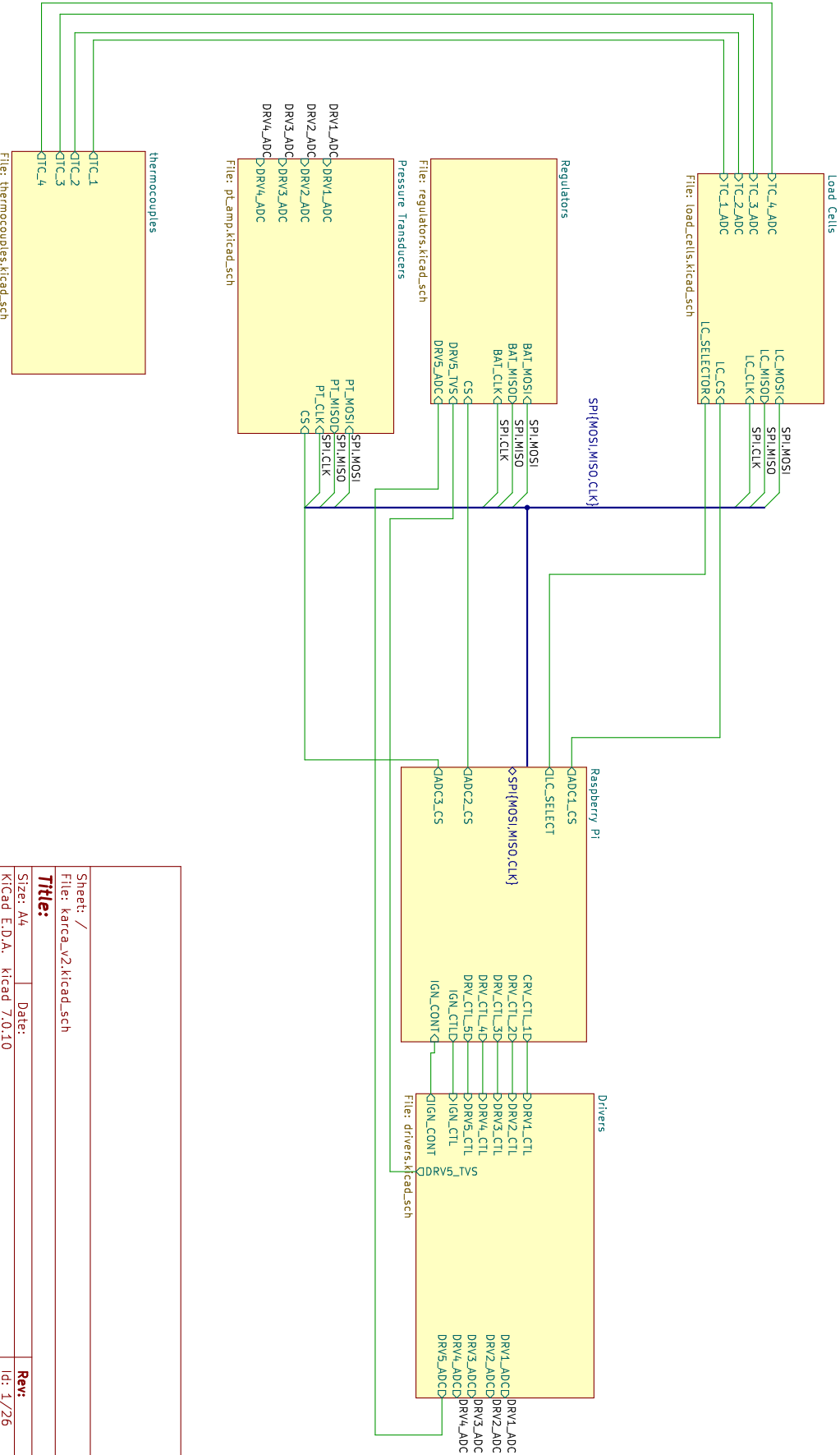
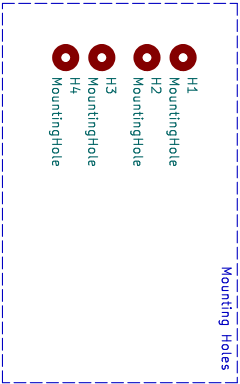
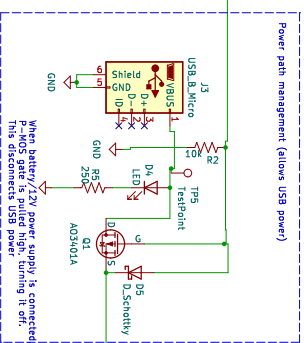


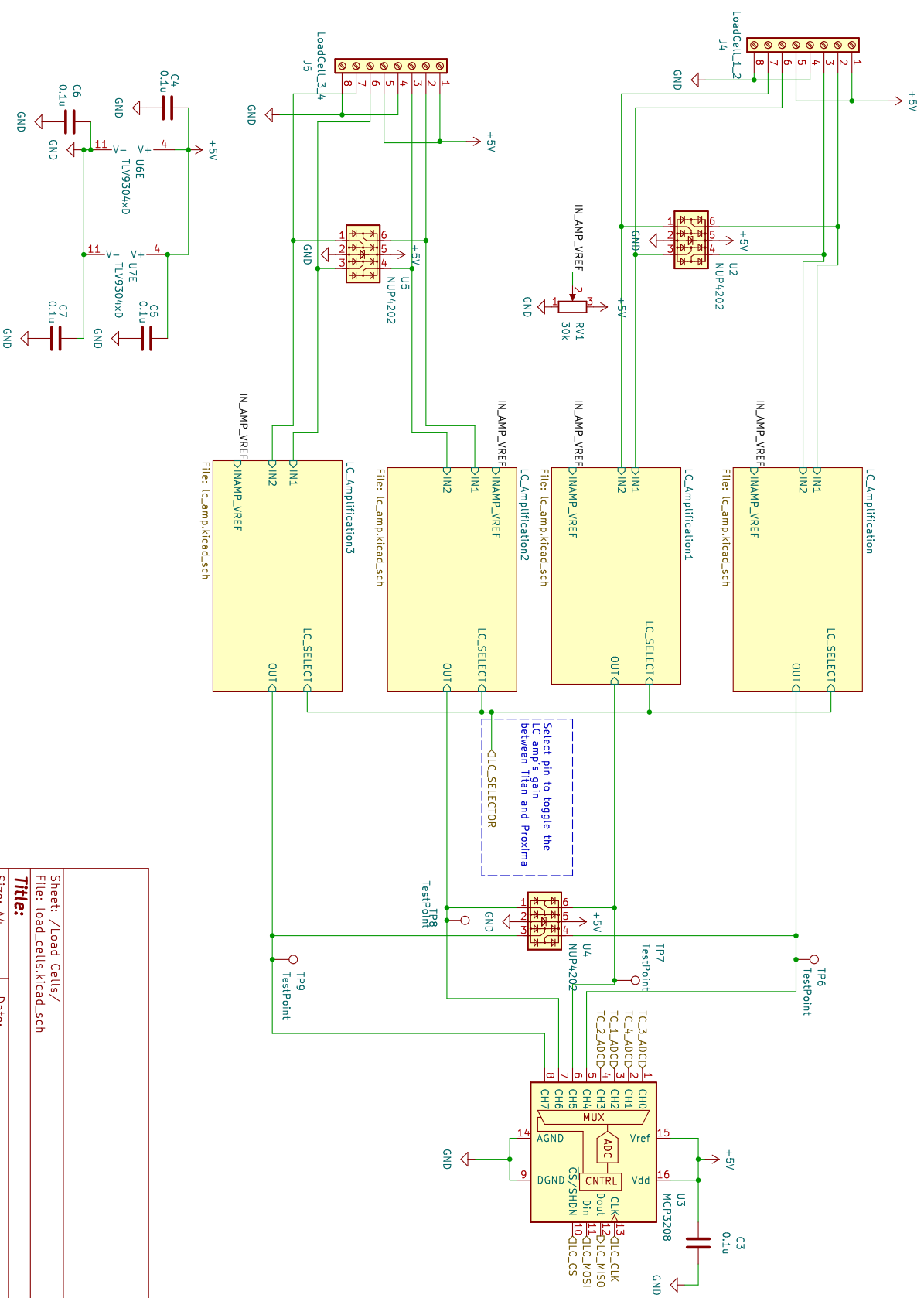
KARCA 2.0

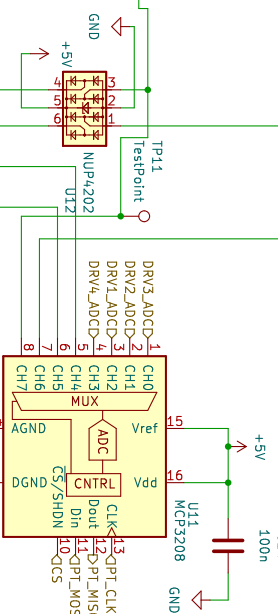
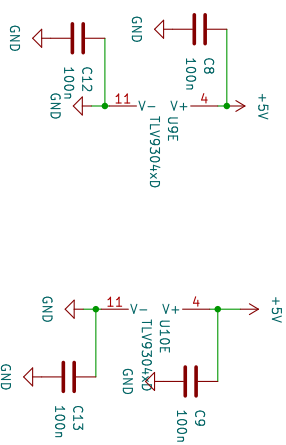
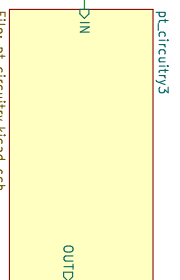
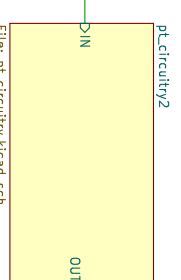
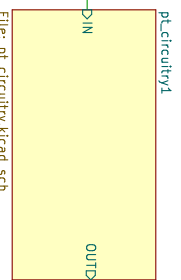
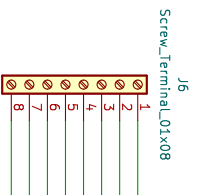
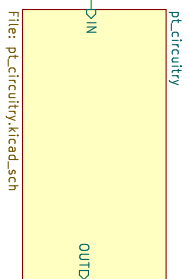
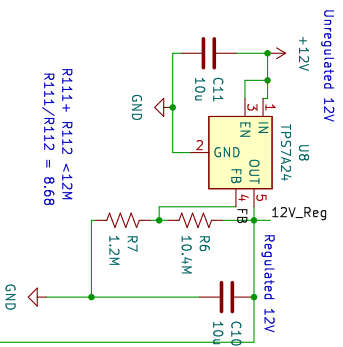
Data Acquisition and Control System for Rice Eclipse's Hybrid Rocket Motors



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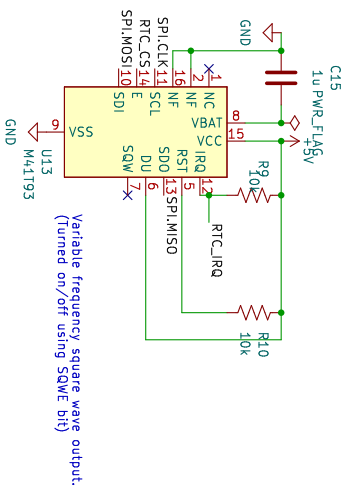
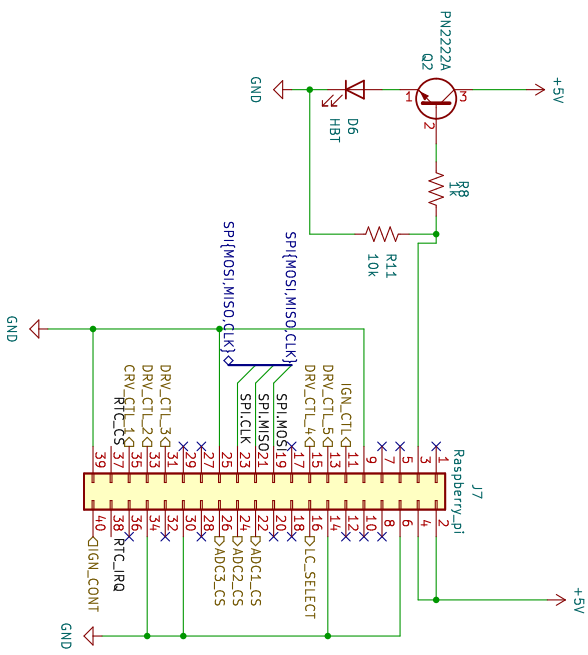
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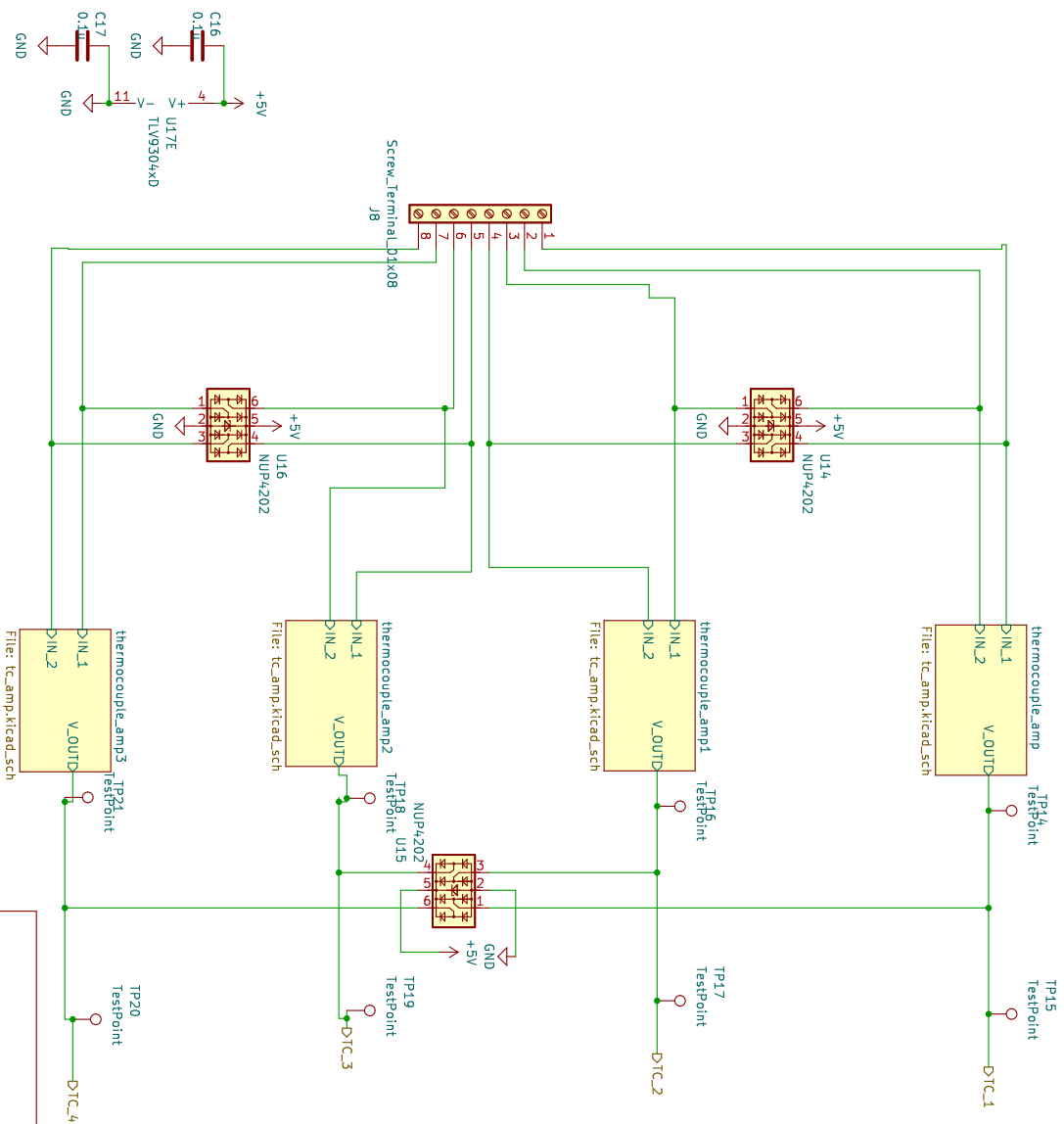
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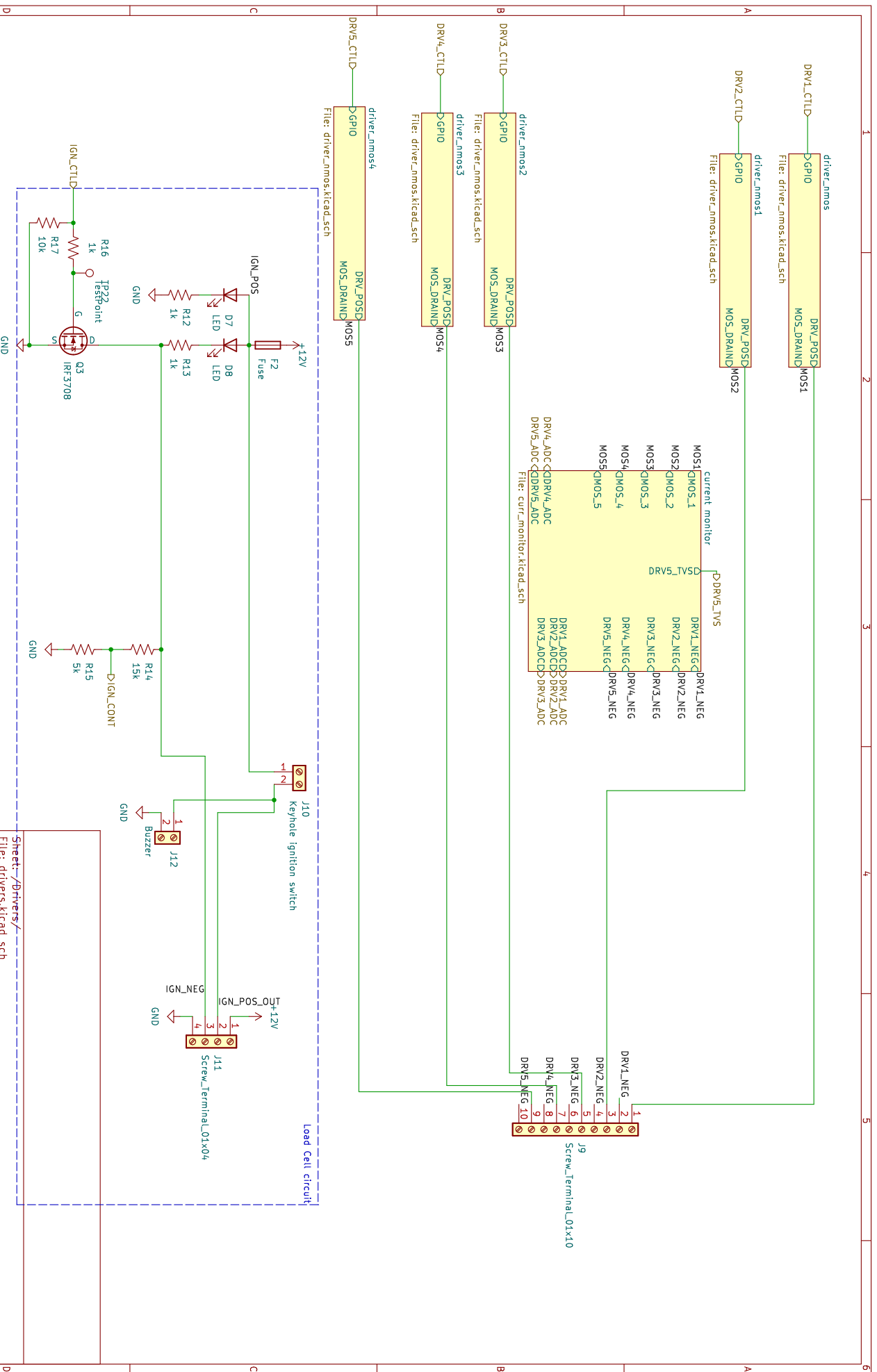
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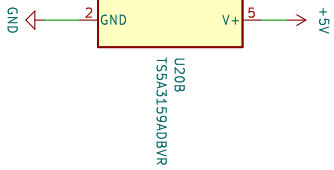
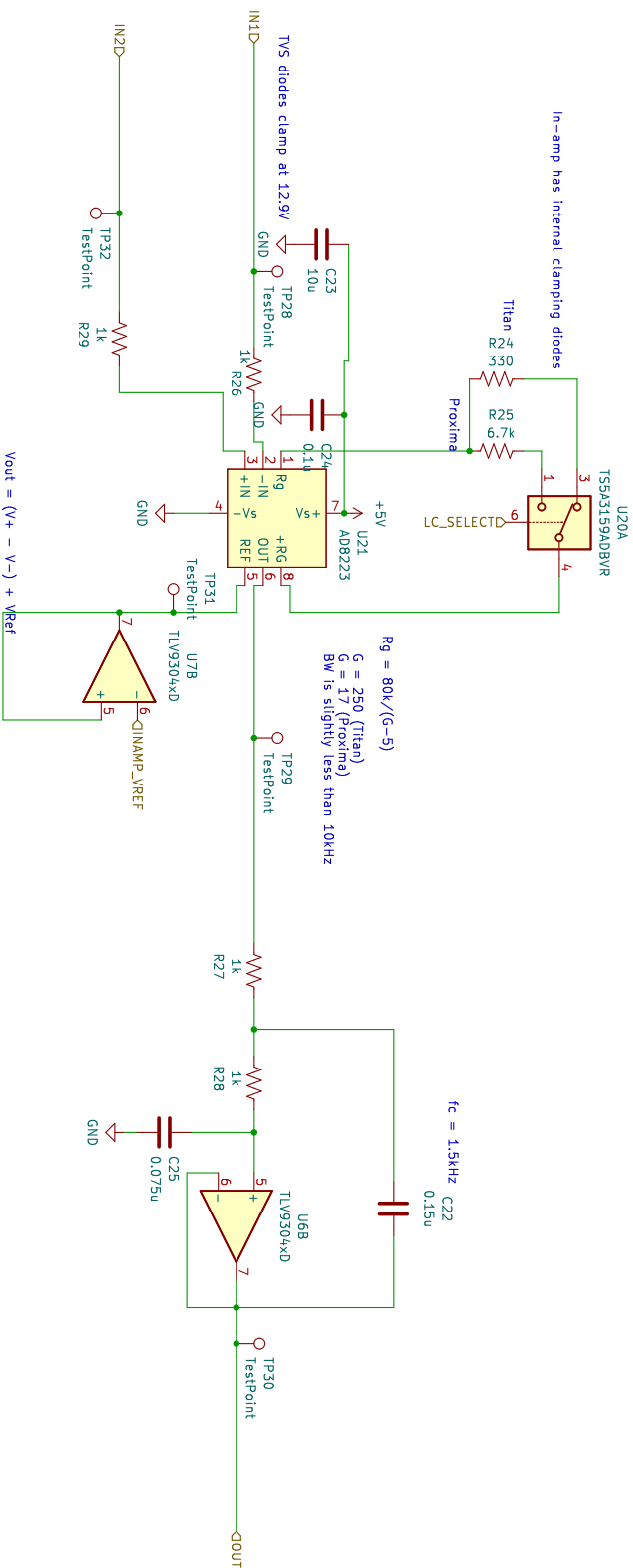
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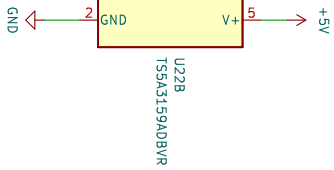
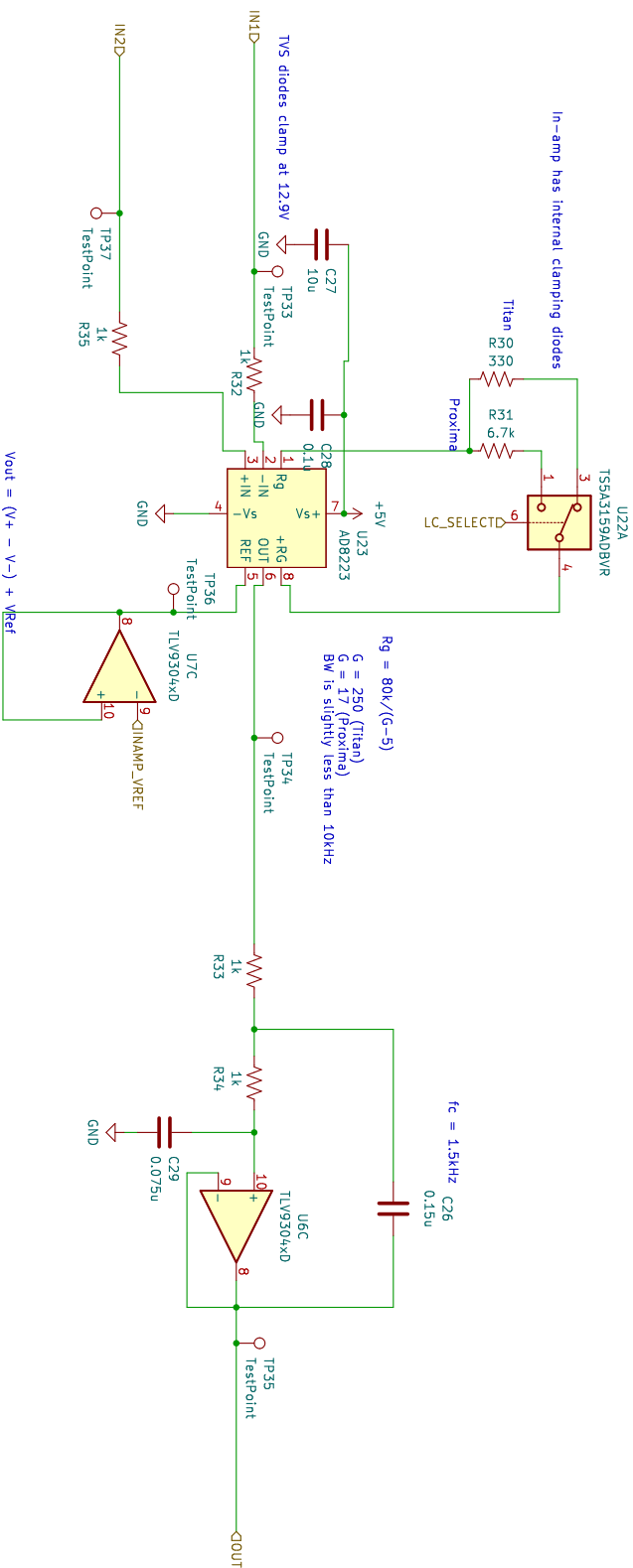
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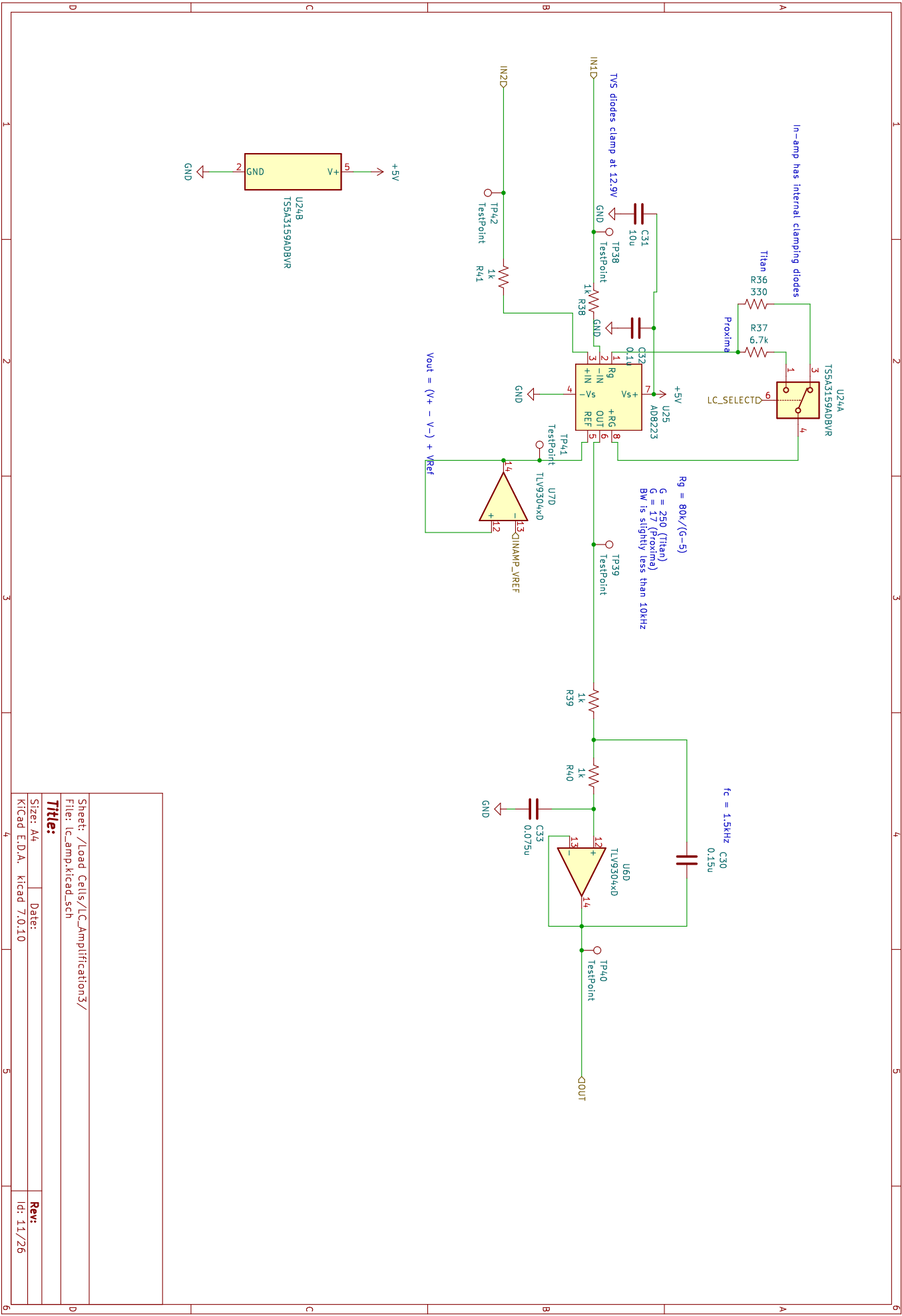
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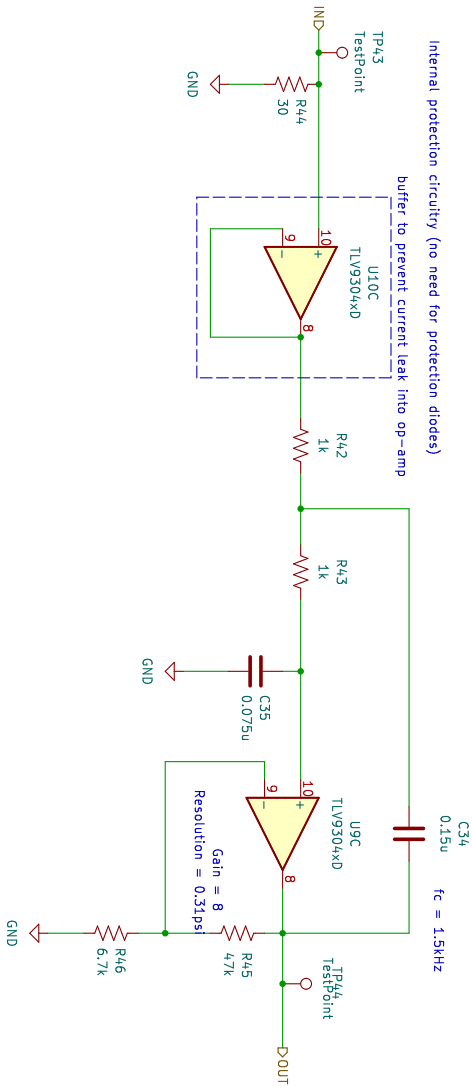
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Rail-to-rail op-amp  
Slew rate: 3V/us(0.5V/us for LM324)



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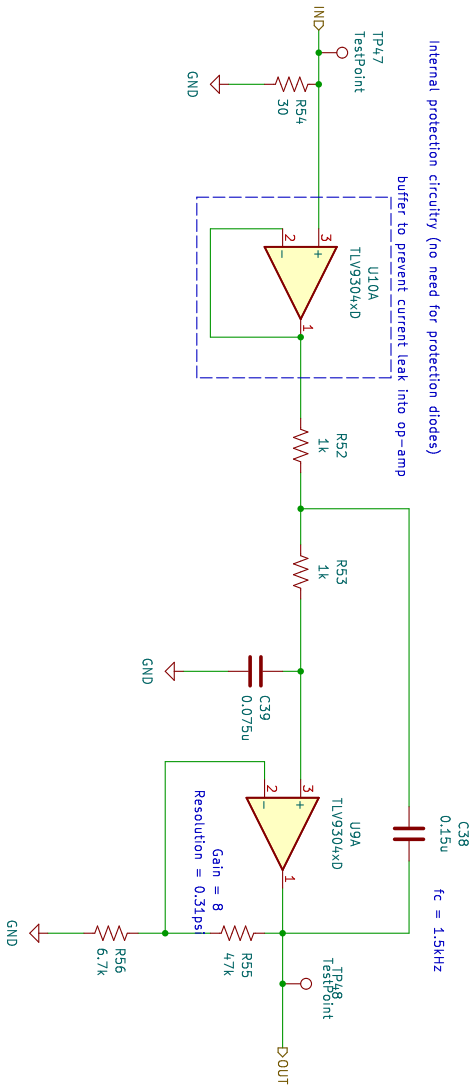
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Rail-to-rail op-amp  
Slew rate: 3V/us(0.5V/us for LM324)



Sheet: /Pressure Transducers/pt\_circuitry3/  
File: pt\_circuitry.kicad\_sch

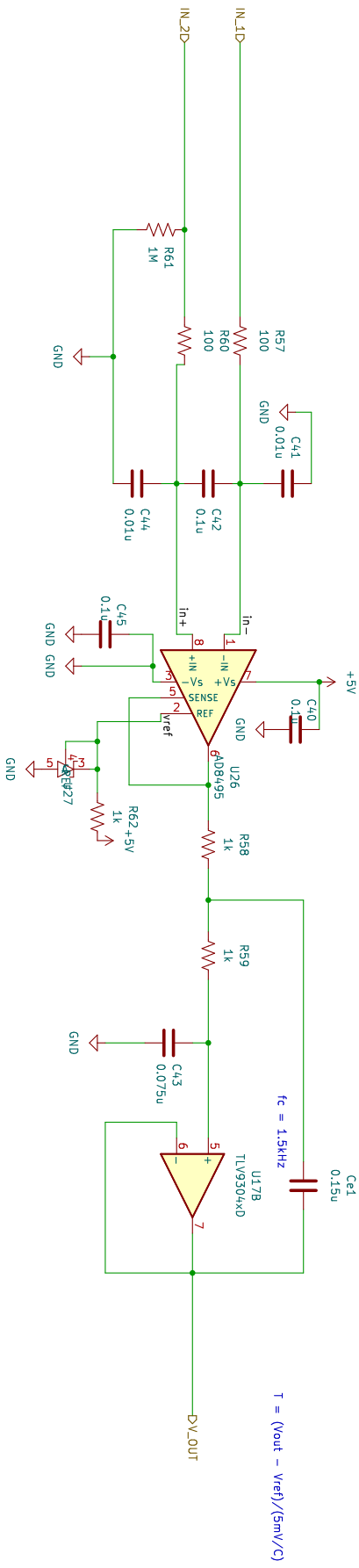
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$$T = (V_{out} - V_{ref}) / (5\text{mV}/^{\circ}\text{C})$$

$f_c = 1.5\text{kHz}$

Sheet: /thermocouples/thermocouple\_amp/  
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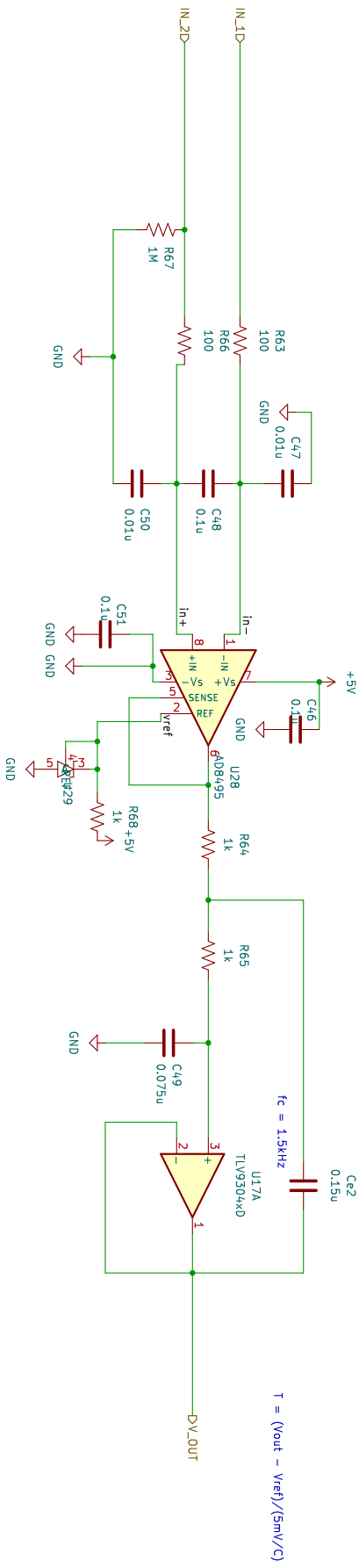
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Sheet: /thermocouples/thermocouple\_amp1/  
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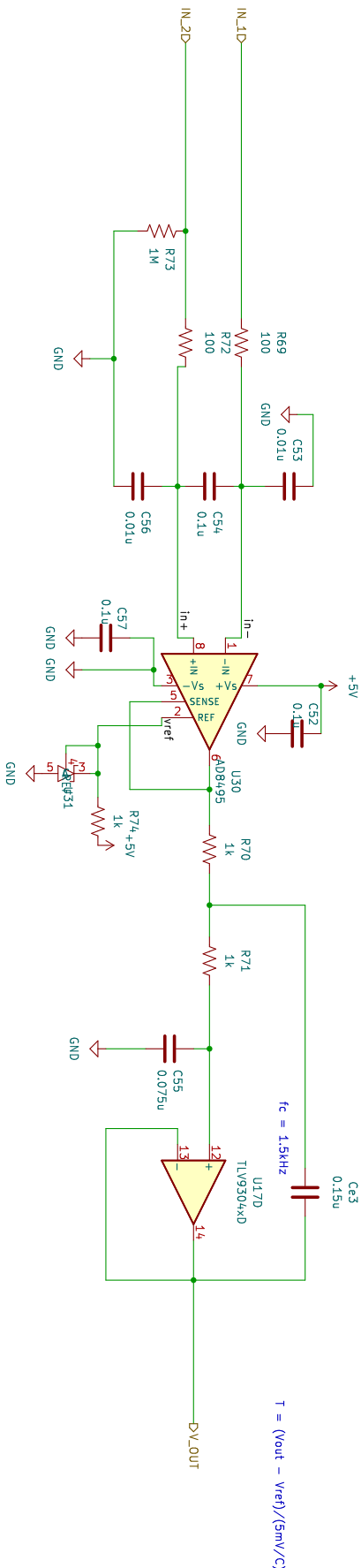
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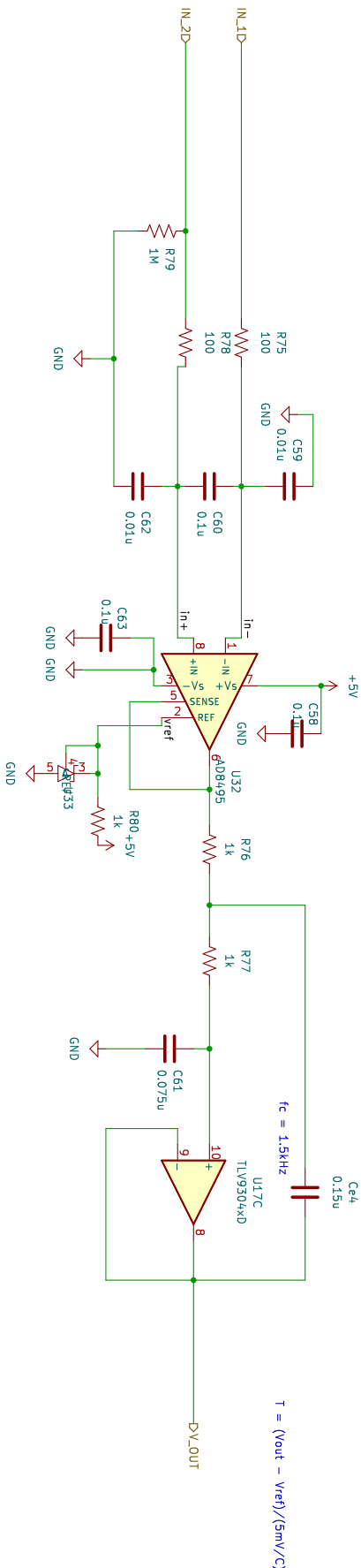
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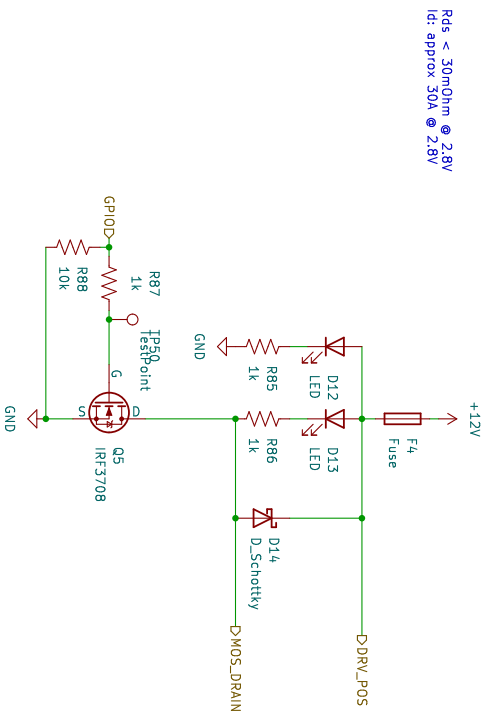


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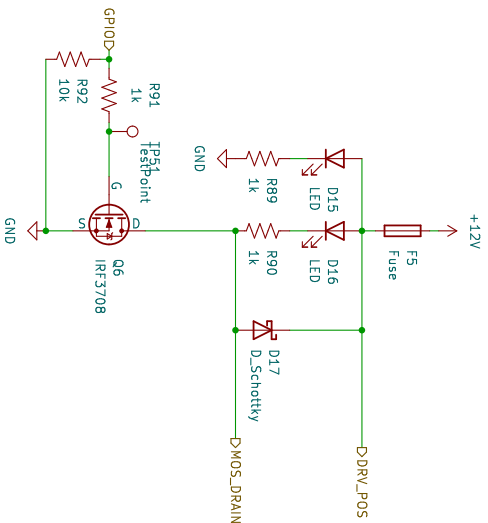
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Rev:

Id: 21/26

Rds < 30mOhm @ 2.8V  
Id: approx 30A @ 2.8V



Sheet: /Drivers/driver\_mmos2/  
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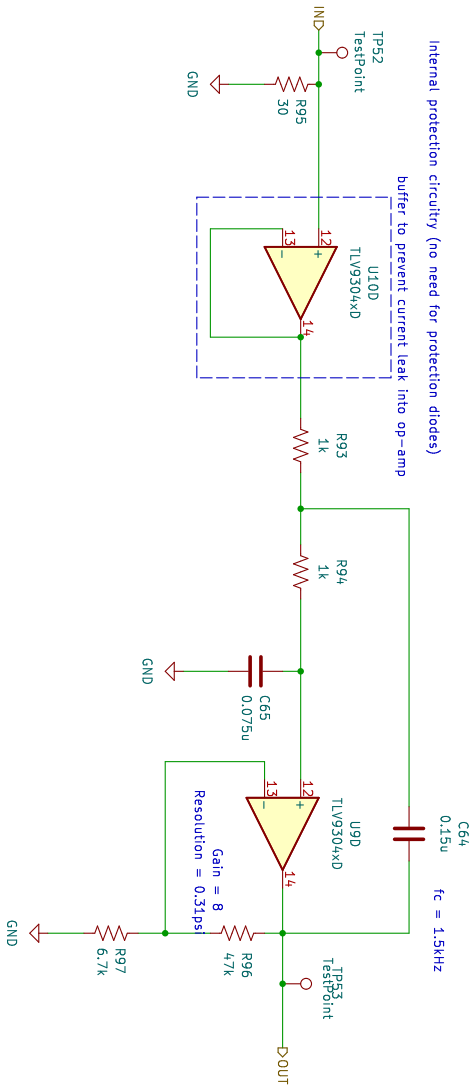
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KiCad E.D.A. KiCad 7.0.10

Rev:

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Rail-to-rail op-amp  
Slew rate: 3V/us(0.5V/us for LM324)



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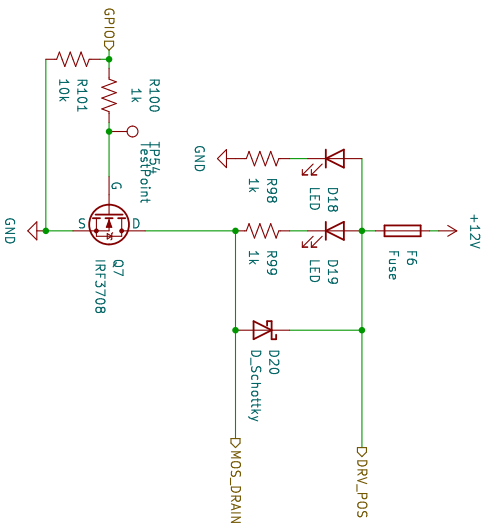
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KiCad E.D.A. kicad 7.0.10

Rev:

Id: 23/26

Rds < 30mOhm @ 2.8V  
Id: approx 30A @ 2.8V



Sheet: /Drivers/driver\_mmos3/  
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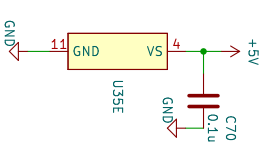
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KiCad E.D.A. kicad 7.0.10

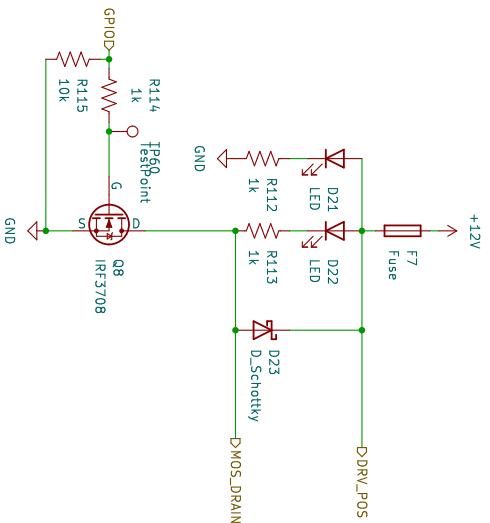
Rev:

Id: 23/26





Rds < 30mOhm @ 2.8V  
Id: approx 30A @ 2.8V



Sheet: /Drivers/driver\_mos4/  
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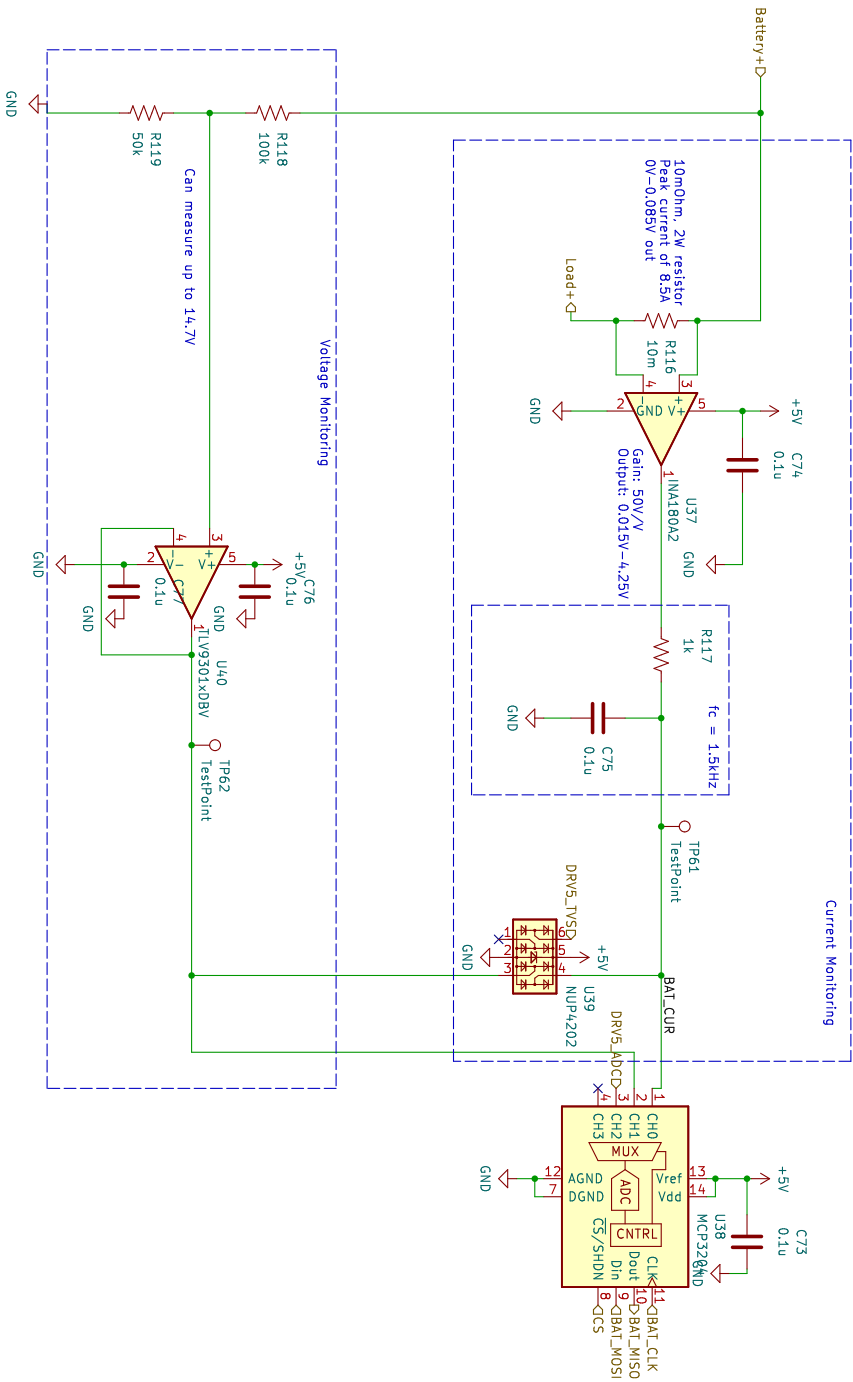
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KiCad E.D.A. kicad 7.0.10

Rev:

Id: 24/26

High side current sensing to measure battery current



Sheet: /Regulators/battery\_monitoring/  
File: battery\_monitoring.kicad\_sch

Title:

Size: A4 Date:

KiCad E.D.A. kicad 7.0.10

Rev:

Id: 26/26