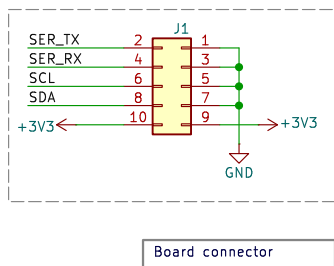
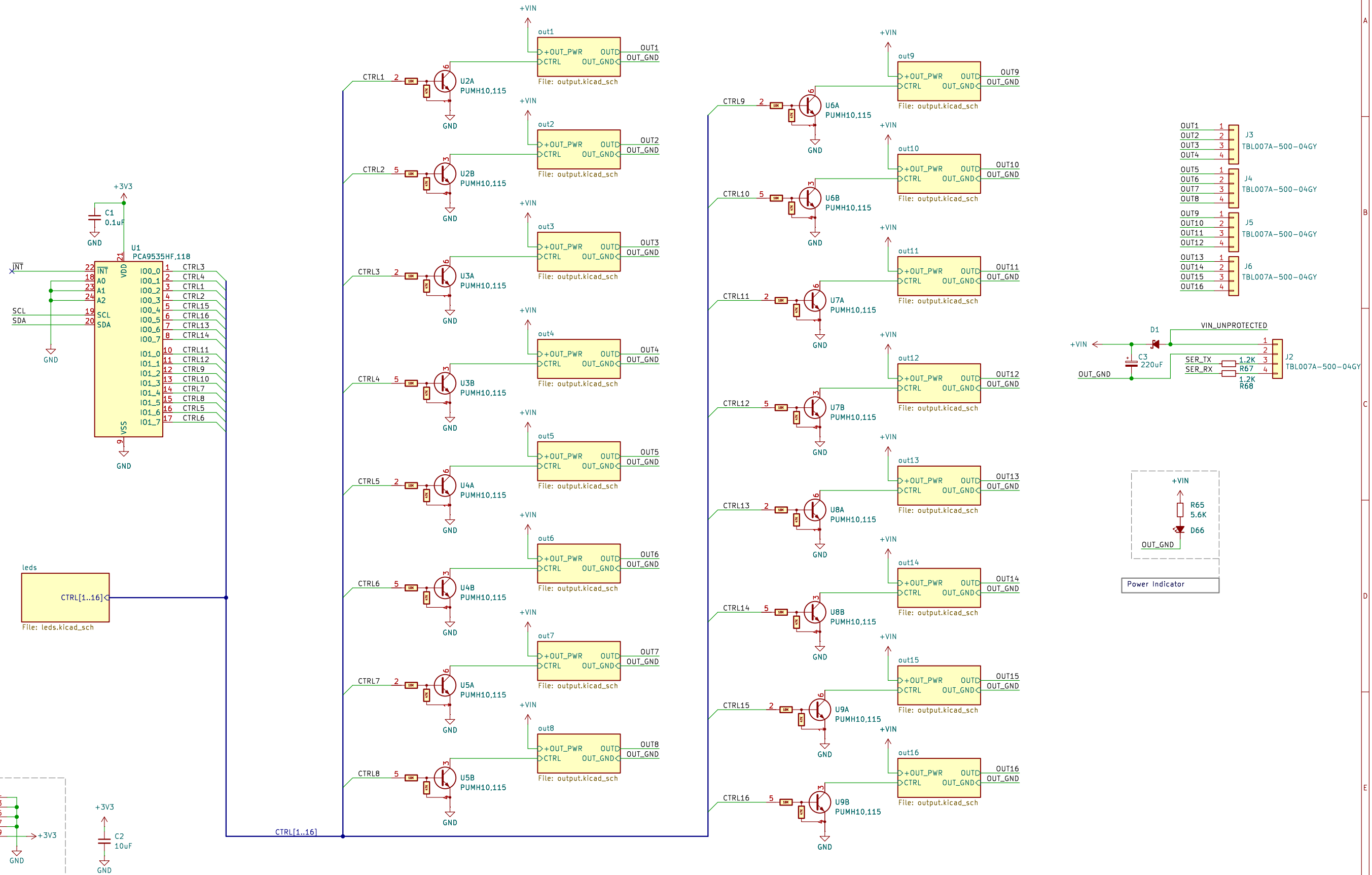


Control Unit 2



Title: Control Unit 2

TOP Sheet

Sheet: Root

File: control_unit_v2_upper.kicad_sch

Rev: 1

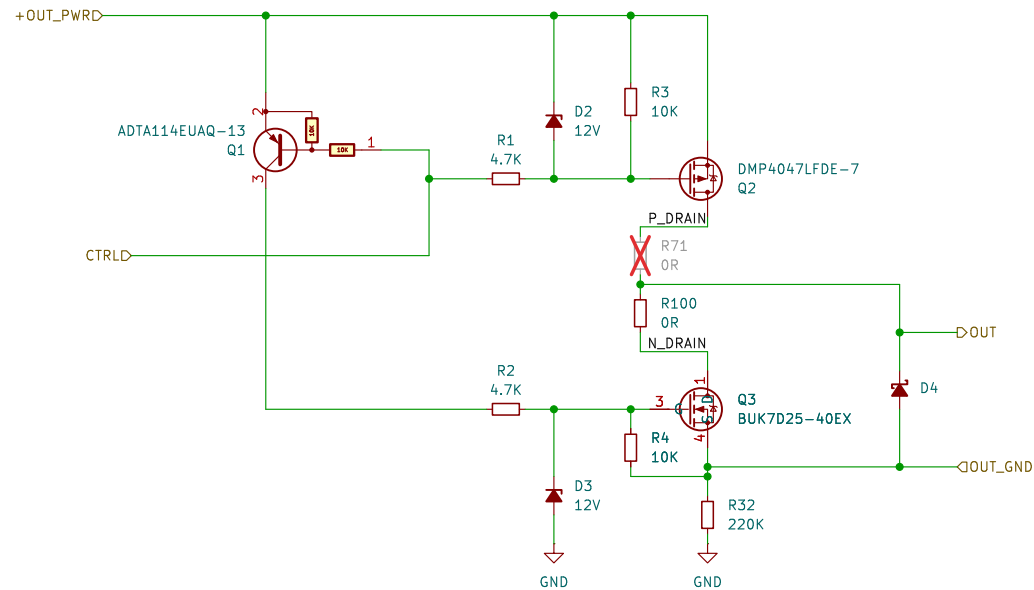
Date: 2024-12-09

Size: A3

d: 1/18



POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out1

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

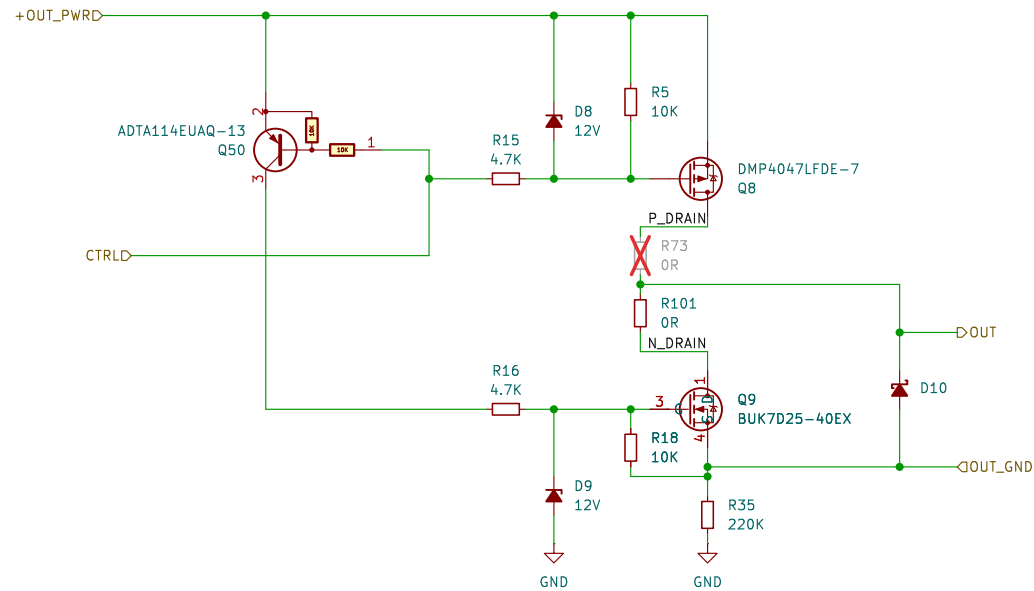
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Id: 2/18



BK Telematics

POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out3

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

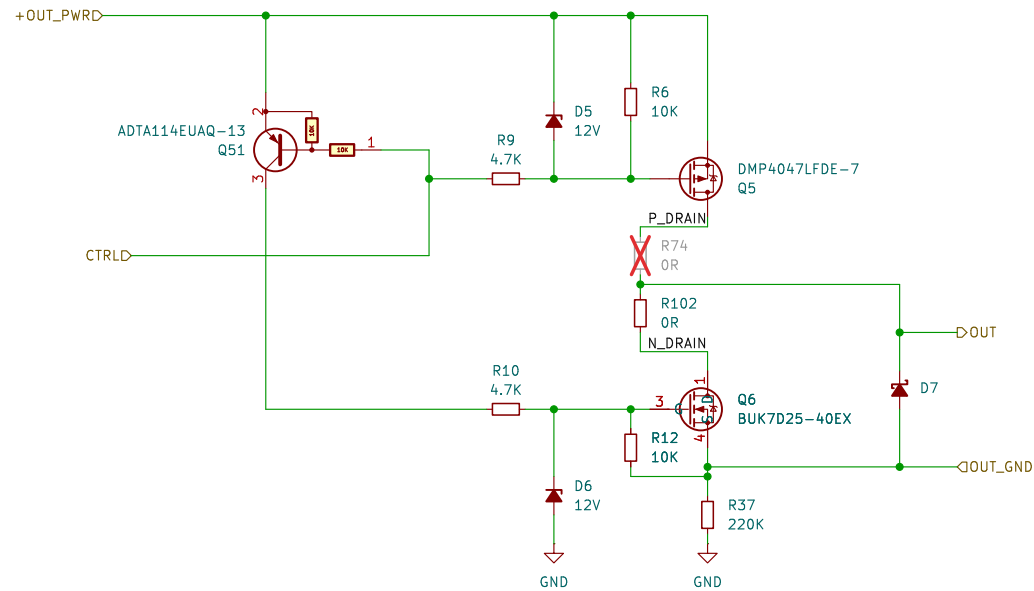
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Id: 3/18



BK Telematics

POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out2

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

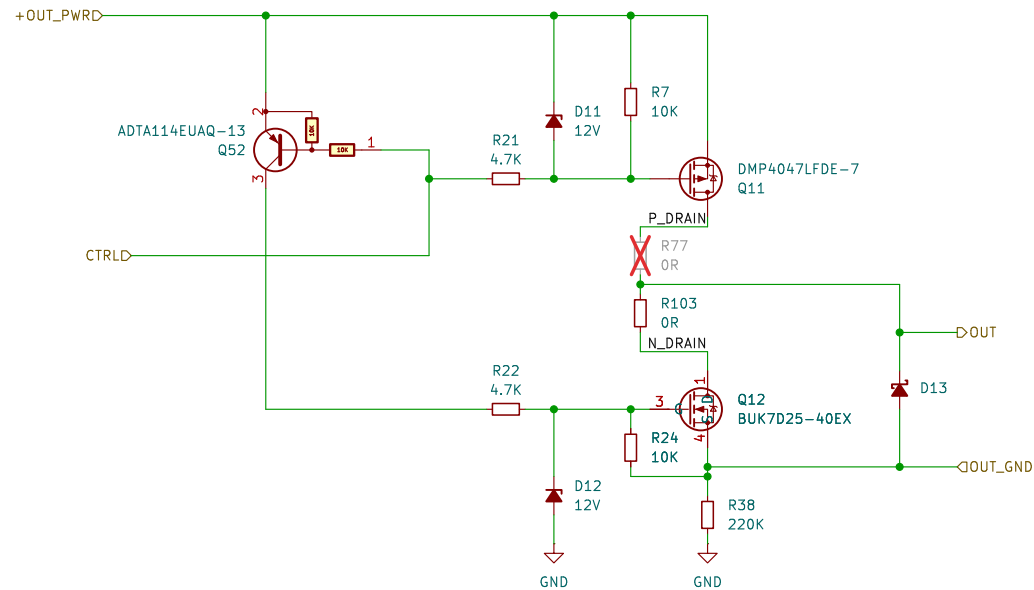
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Id: 4/18



BK Telematics

POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out4

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

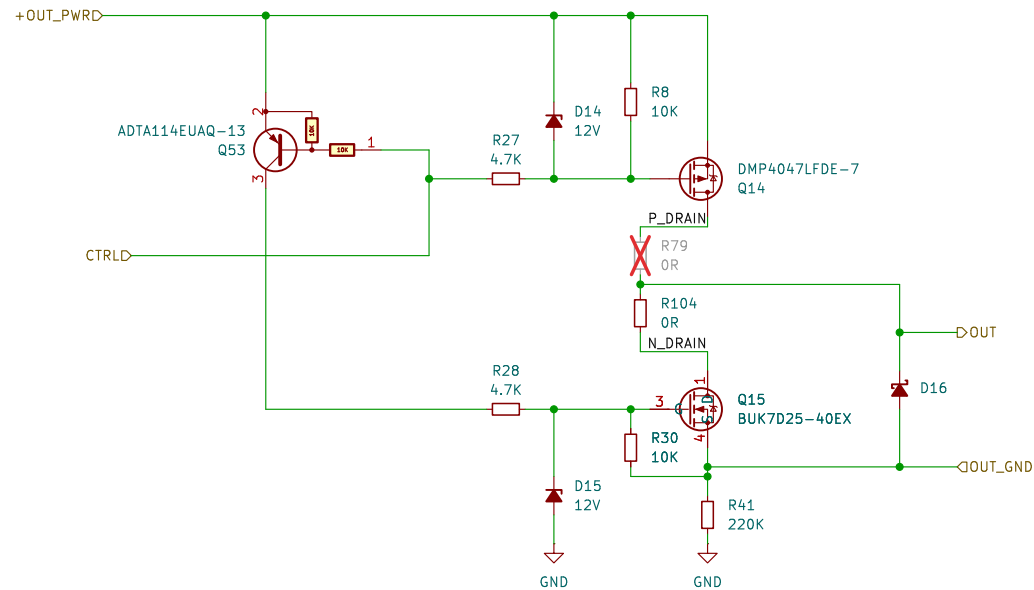
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Id: 5/18



BK Telematics

POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out5

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

Size: A4

Id: 6/18

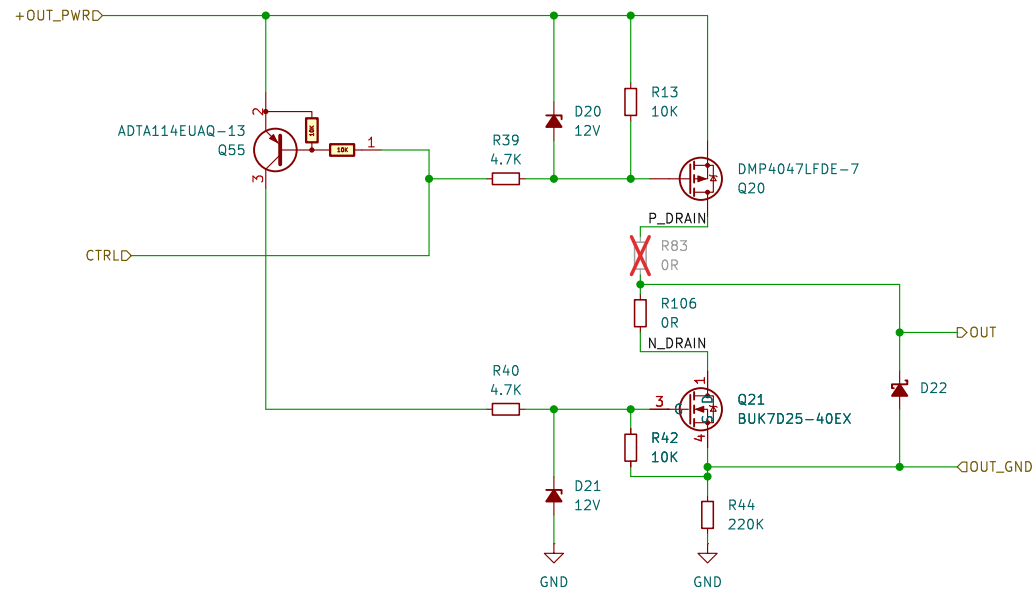


BK Telematics

[illegible]

BK Telematics

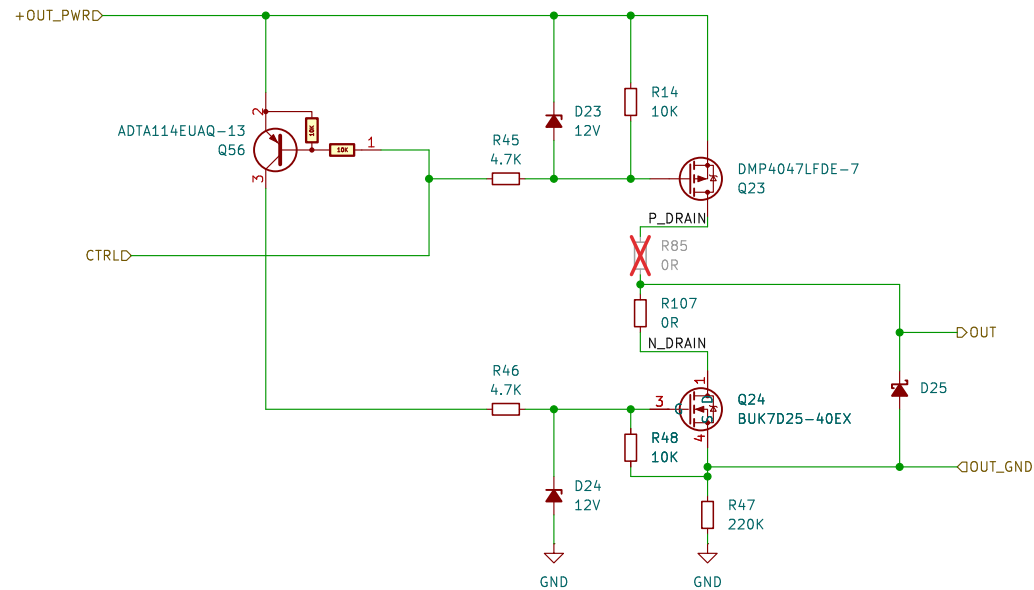
POWER OUTPUT



Title: Control Unit 2			
POWER OUTPUT			
Sheet: out7			
File: output.kicad_sch			
Rev: 1	Date: 2024-12-09	Size: A4	Id: 8/18



POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out8

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

Size: A4

Id: 9/18




BK Telematics

[illegible]

BK Telematics

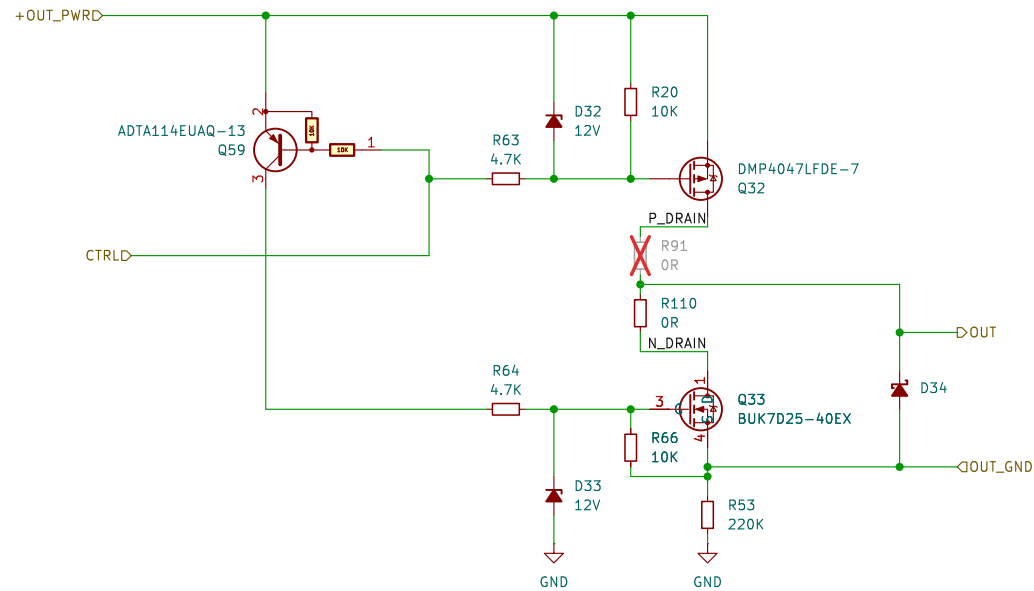
POWER OUTPUT

The schematic diagram illustrates the POWER OUTPUT circuit. It is powered by +OUT_PWRD and controlled by CTRLD. The circuit includes two MOSFETs: Q29 (DMP4047LFDE-7) and Q30 (BUK7D25-40EX). Q29's gate is driven by CTRLD through a 10K resistor (R19) and a 4.7K resistor (R57). Q29's drain is connected to +OUT_PWRD through a 12V diode (D29) and a 4.7K resistor (R57). Q29's source is connected to the gate of Q30 through a 4.7K resistor (R58). Q30's gate is driven by CTRLD through a 4.7K resistor (R58). Q30's drain is connected to +OUT_PWRD through a 12V diode (D30) and a 4.7K resistor (R58). Q30's source is connected to the output OUT through a 12V diode (D31) and a 220K resistor (R50). The output OUT is connected to OUT_GND. The circuit also includes a 10K resistor (R109) and a 0R resistor (R89) in parallel between the gates of Q29 and Q30.

Title: Control Unit 2		 BK Telematics	
POWER OUTPUT			
Sheet: out10			
File: output.kicad_sch			
Rev: 1	Date: 2024-12-09	Size: A4	Id: 11/18

BK Telematics

POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out11

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

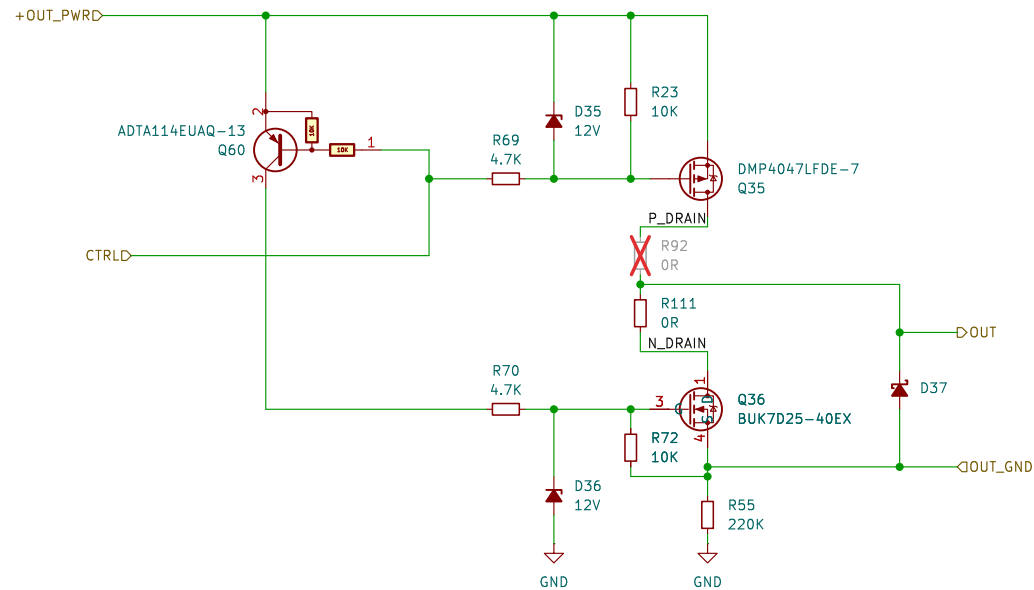
Size: A4

Id: 12/18



BK Telematics

POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out12

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

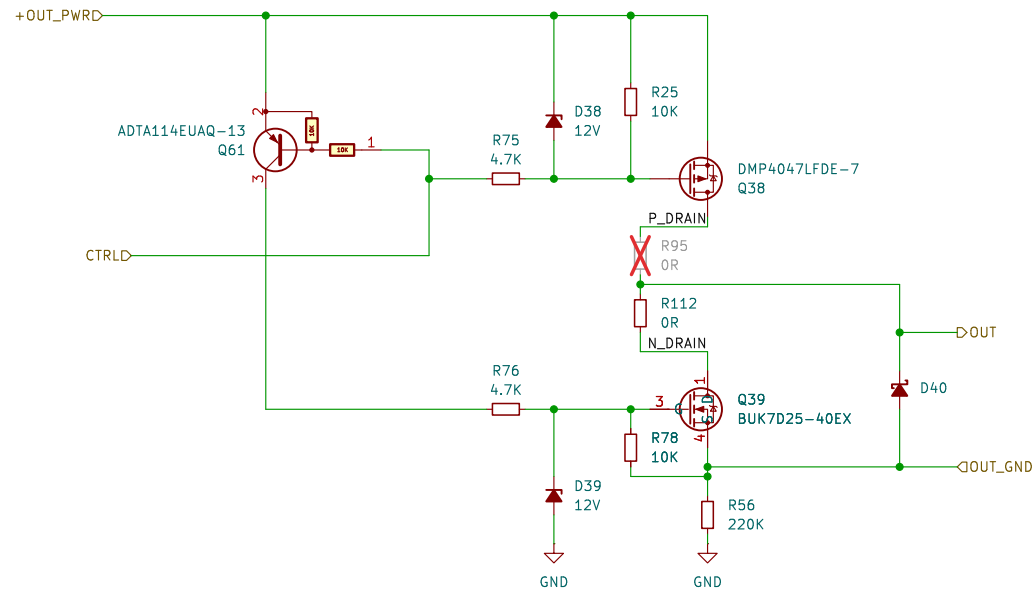
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Id: 13/18



BK Telematics

POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out13

File: output.kicad_sch

Rev: 1

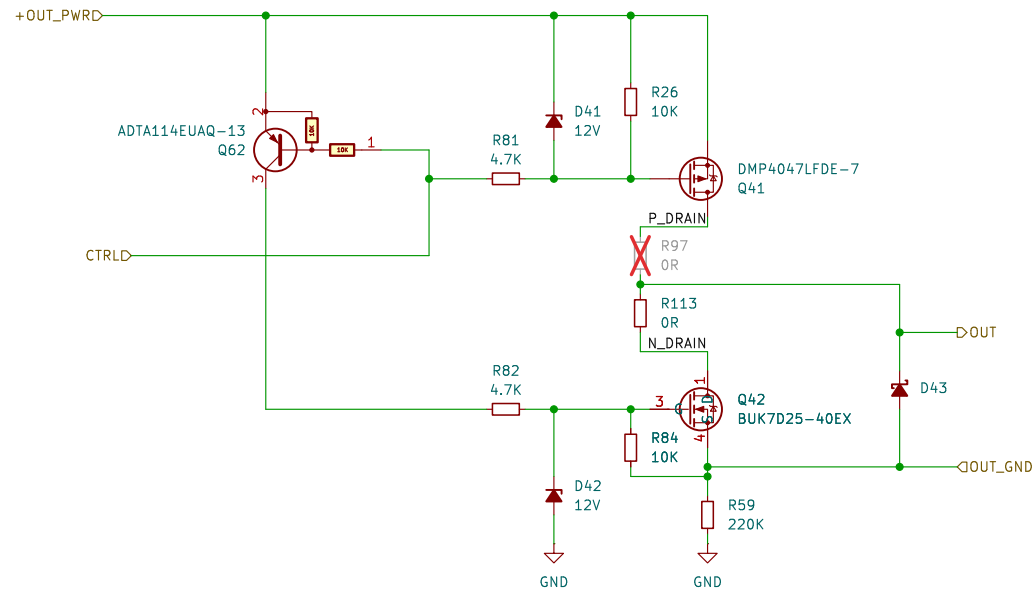
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Id: 14/18



POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out14

File: output.kicad_sch

Rev: 1

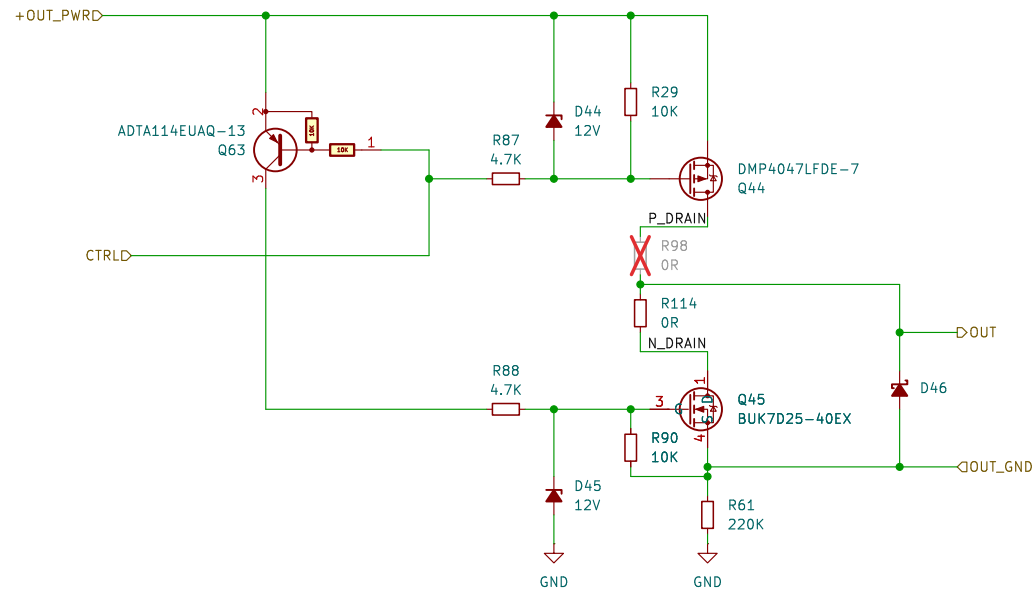
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Size: A4

Id: 15/18



POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out15

File: output.kicad_sch

Rev: 1

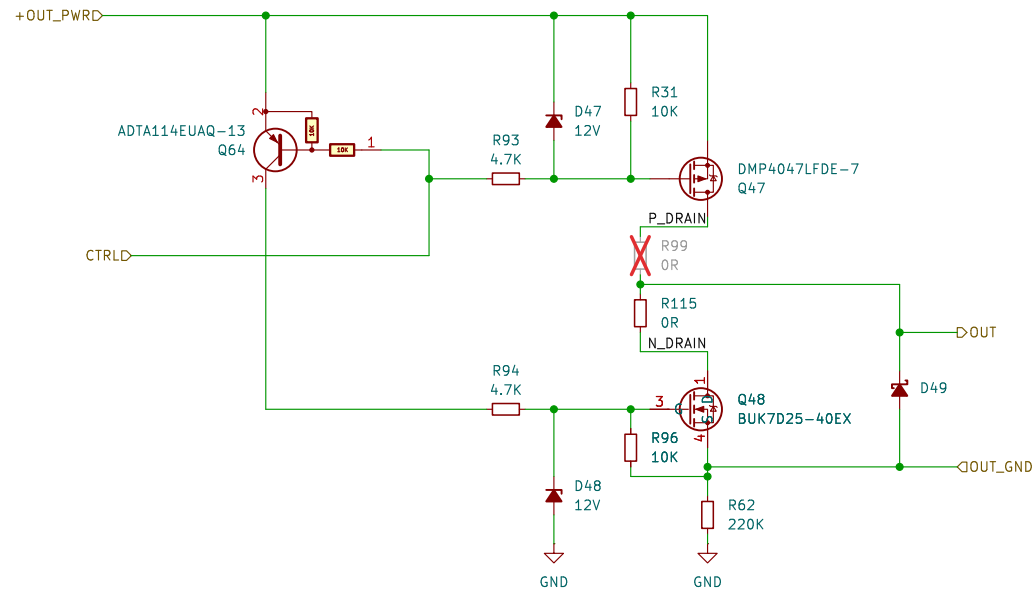
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Size: A4

Id: 16/18



POWER OUTPUT



Title: Control Unit 2

POWER OUTPUT

Sheet: out16

File: output.kicad_sch

Rev: 1

Date: 2024-12-09

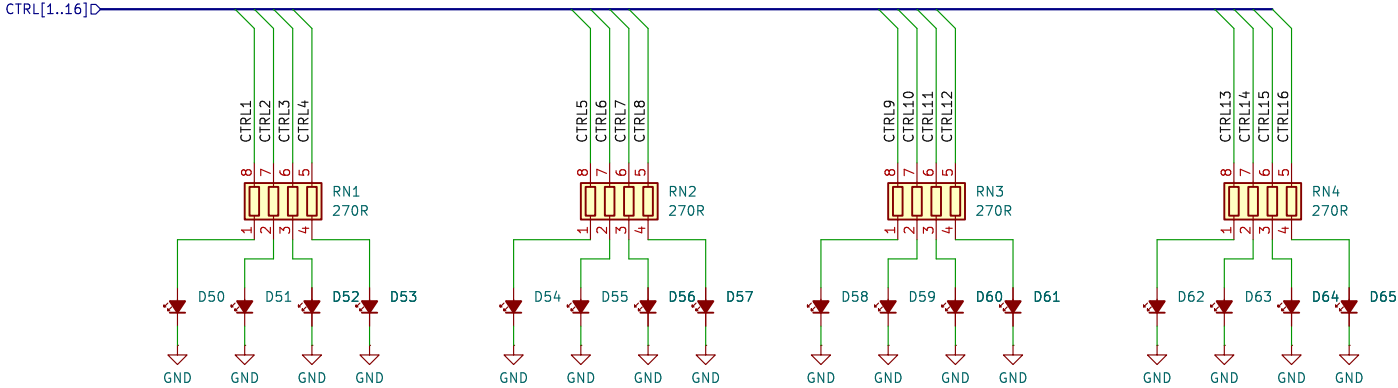
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Id: 17/18



BK Telematics

LEDs



Title: Control Unit 2			 BK Telematics
LEDs			
Sheet: leds			
File: leds.kicad_sch			
Rev: 1	Date: 2024-12-09	Size: A4	Id: 18/18