

Duet3 Mainboard v1.01

Sheet: Processor

Processor

File: Processor.sch

Sheet: sheet5F4EC370

IO

File: Endstops.sch

Sheet: Power

Power

File: Power.sch

Sheet: Stepper Driver & Endstops

Stepper Drivers

File: Stepper_Drv.sch

Sheet: MOSFET outputs

MOSFET outputs

File: Htr_Fan.sch

Sheet: Headers

Headers

File: Headers.sch

Sheet: sheet5B64A4E5

Comms

File: Comms.sch

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Sheet: /

File: Duet3_MB.sch

Title: Duet 3 Main Board

Size: A4

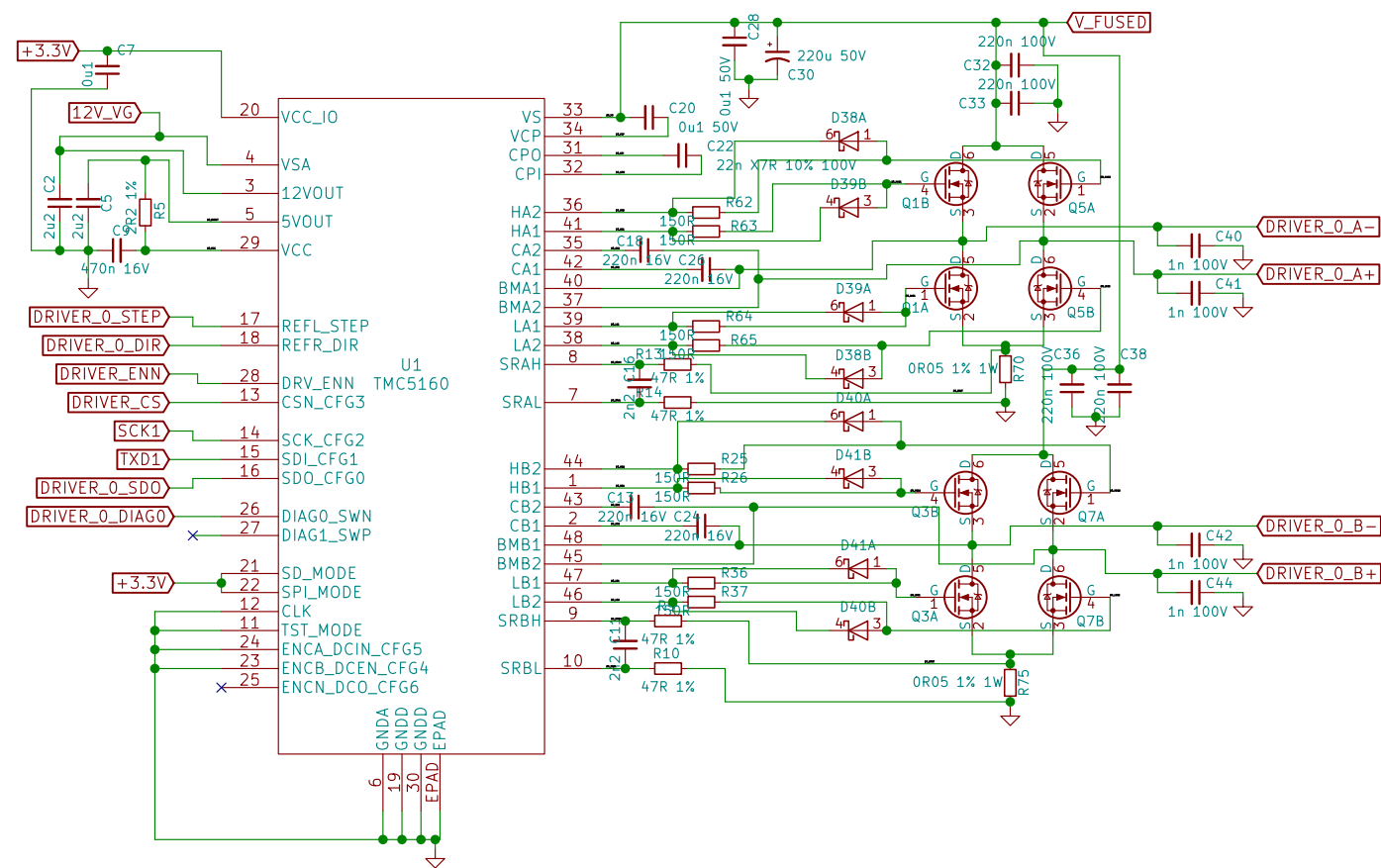
Date: 2020-03-30

Rev: 1.01

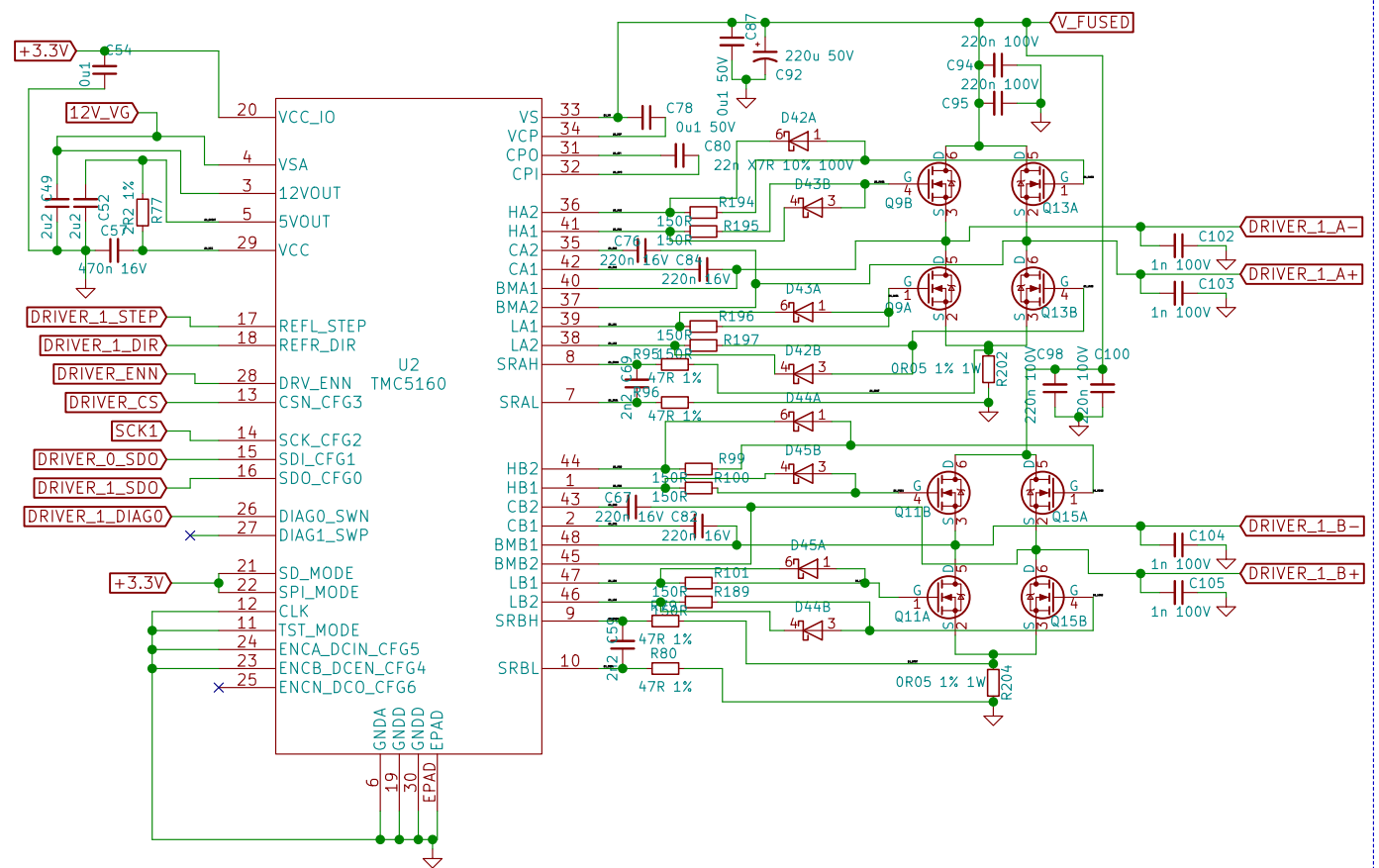
KiCad E.D.A. kicad (5.1.4)-1

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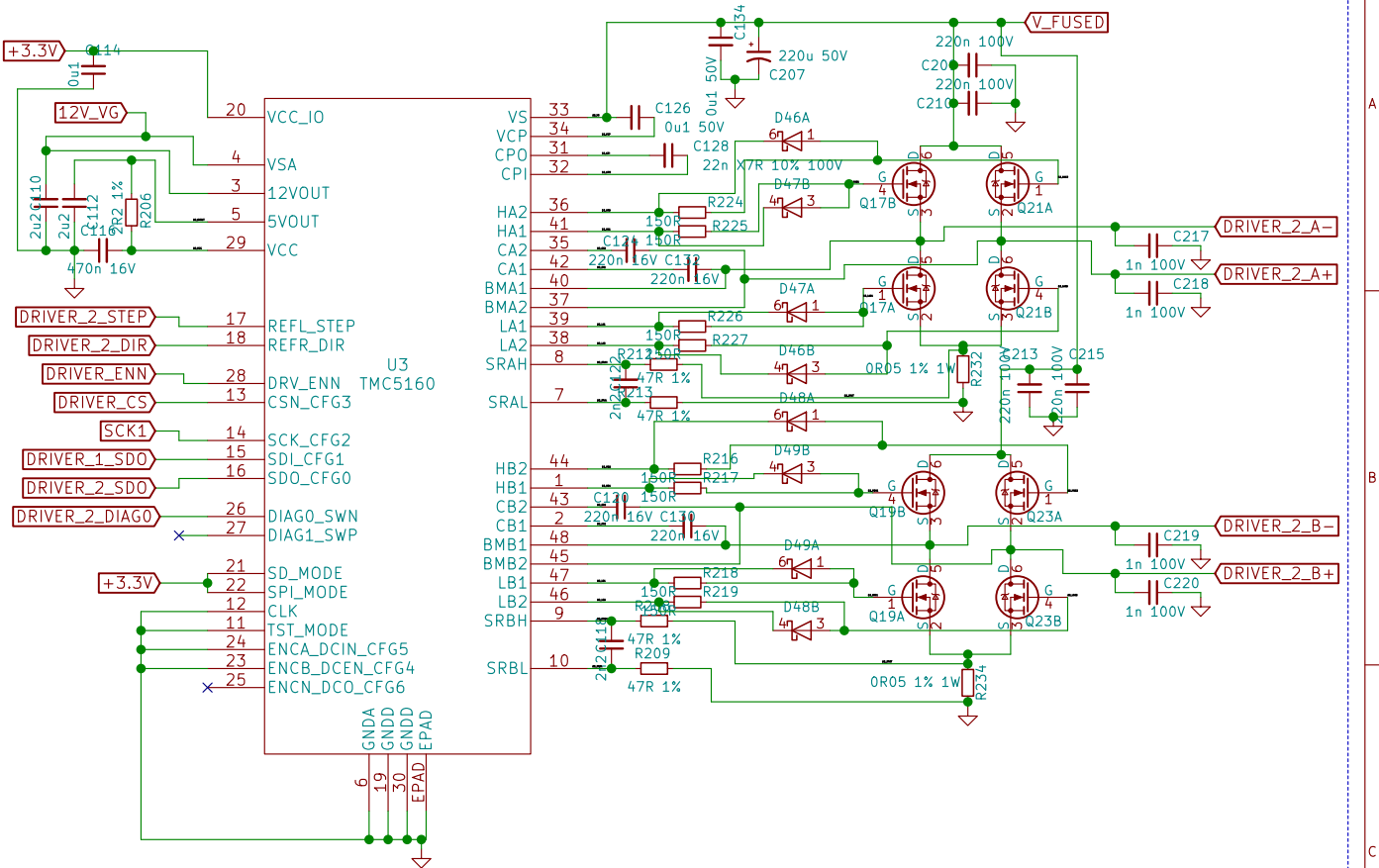
Driver 0



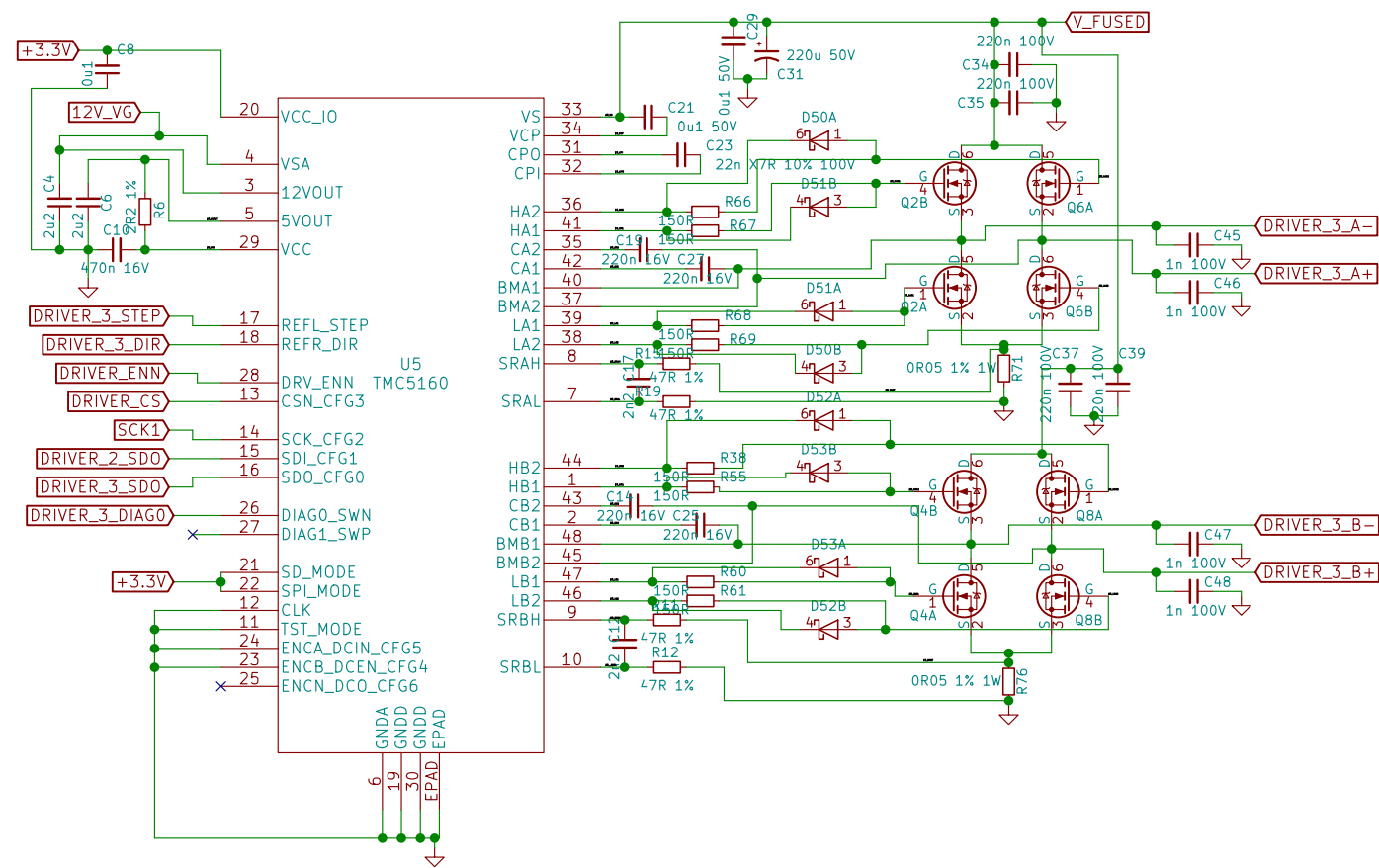
Driver 1



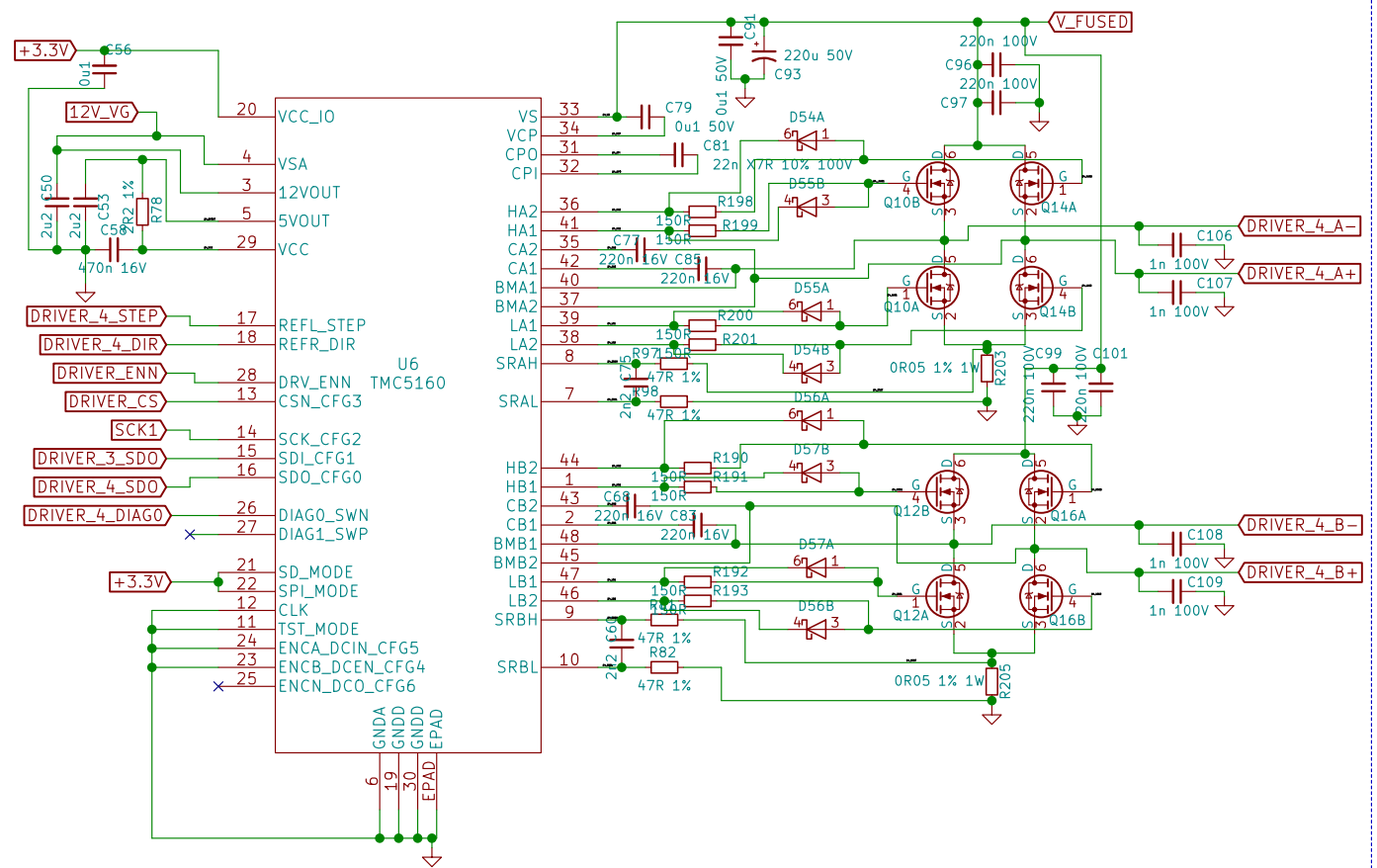
Driver 2



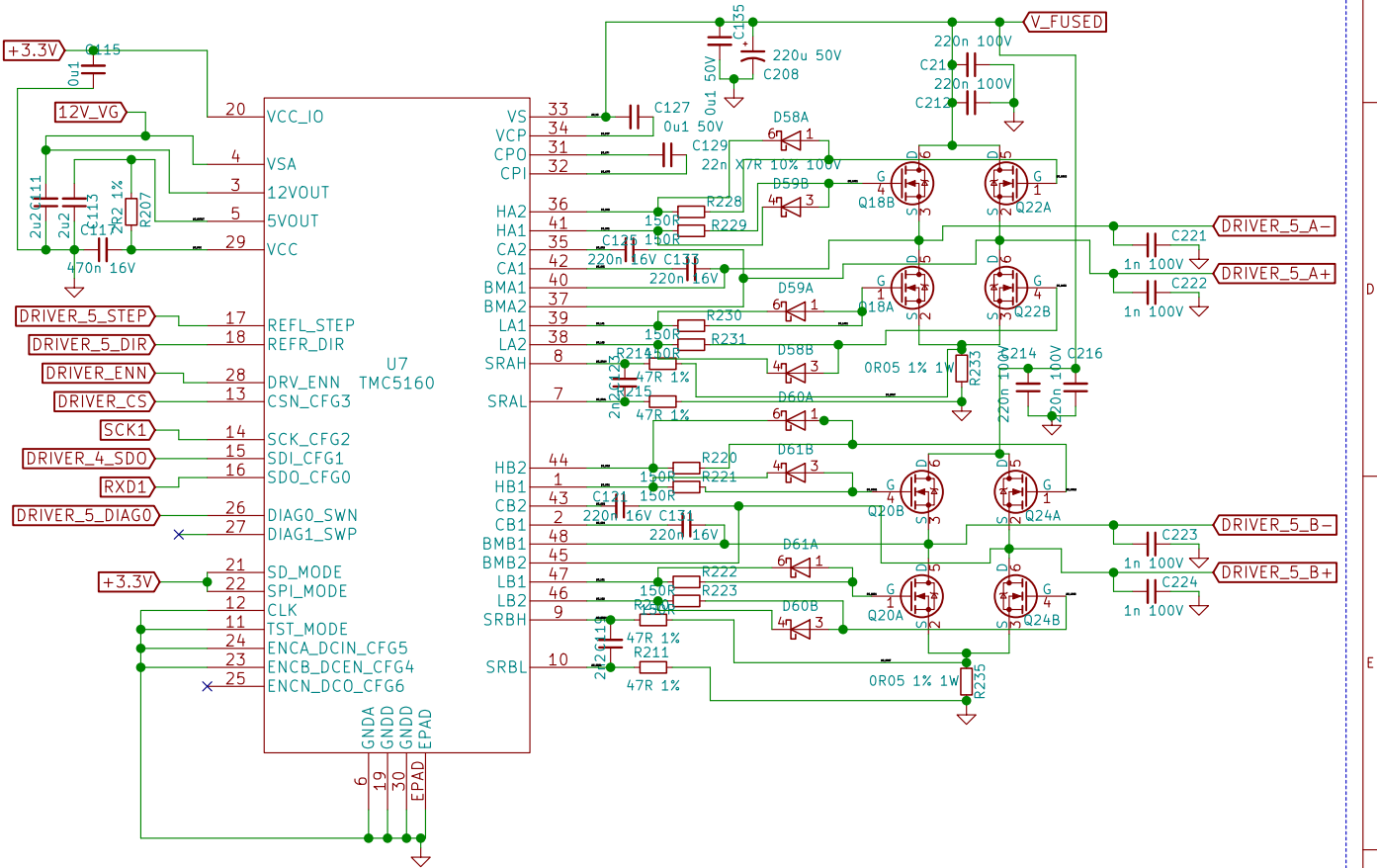
Driver 3



Driver 4



Driver 5



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Sheet: /Stepper Driver & Endstops/
File: Stepper_Drv.sch

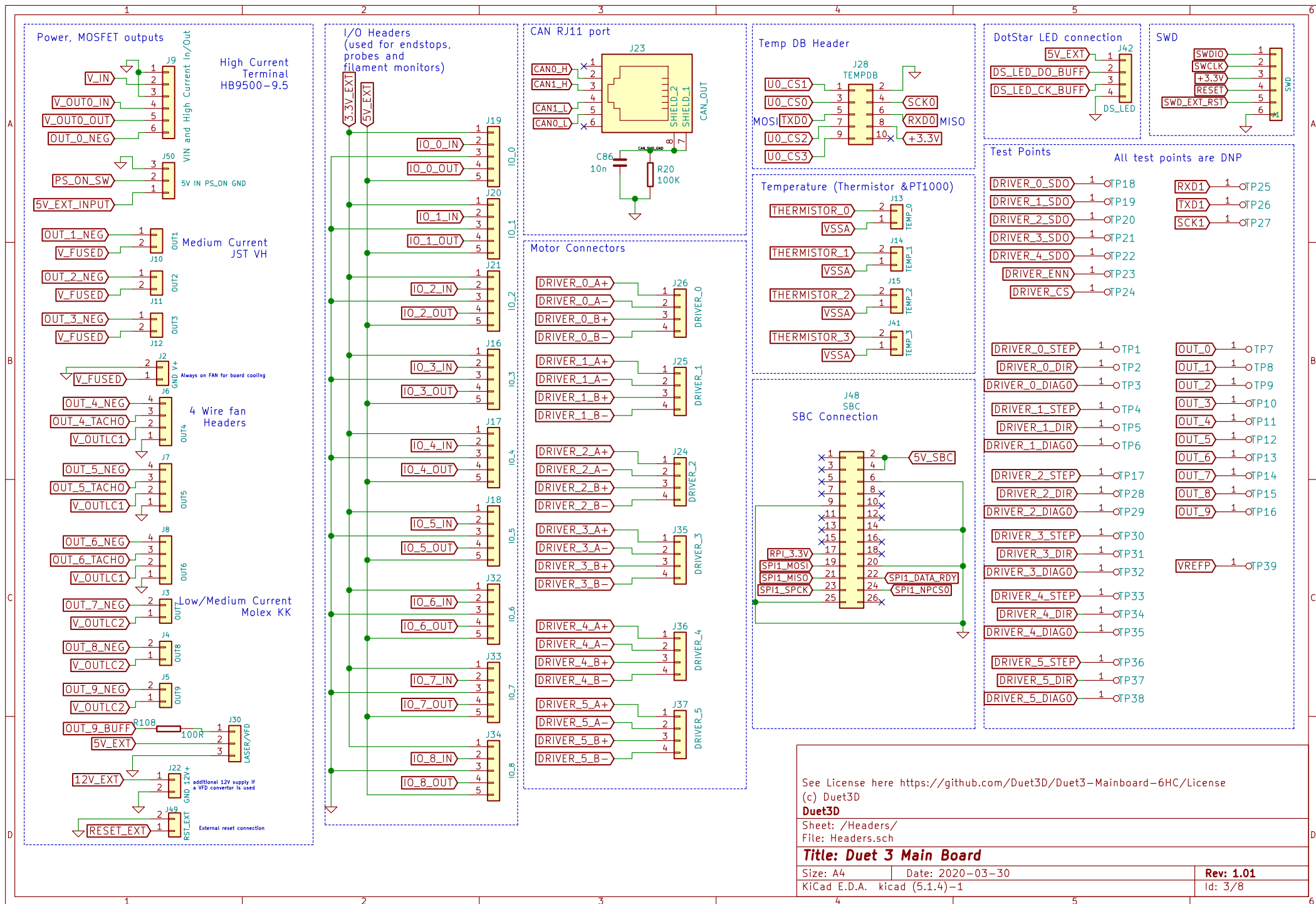
Title: Duet 3 Main Board

Size: A2 Date: 2020-03-30

Rev: 1.01

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Sheet: /Headers/

File: Headers.sch

Title: Duet 3 Main Board

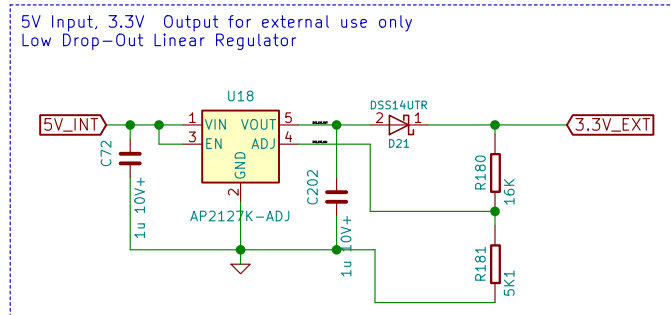
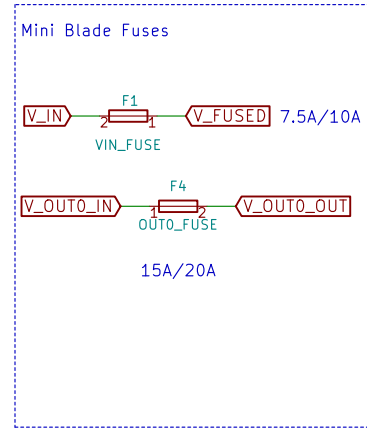
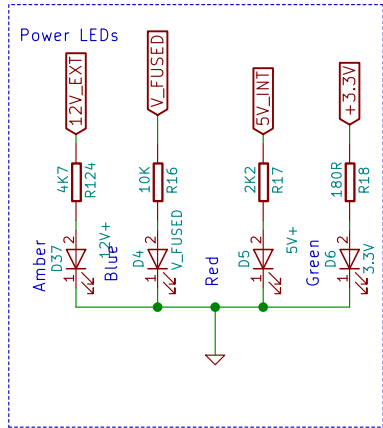
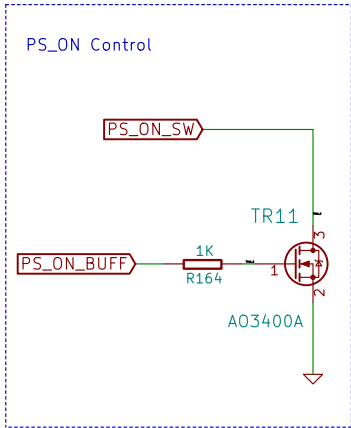
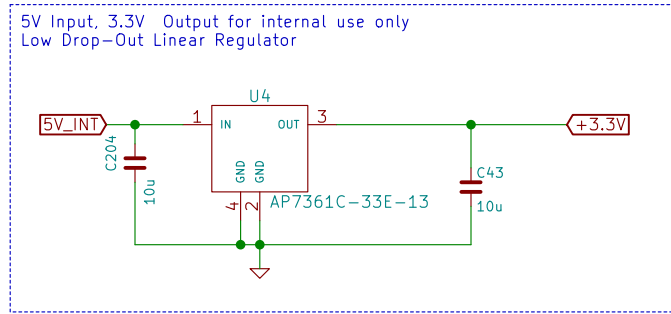
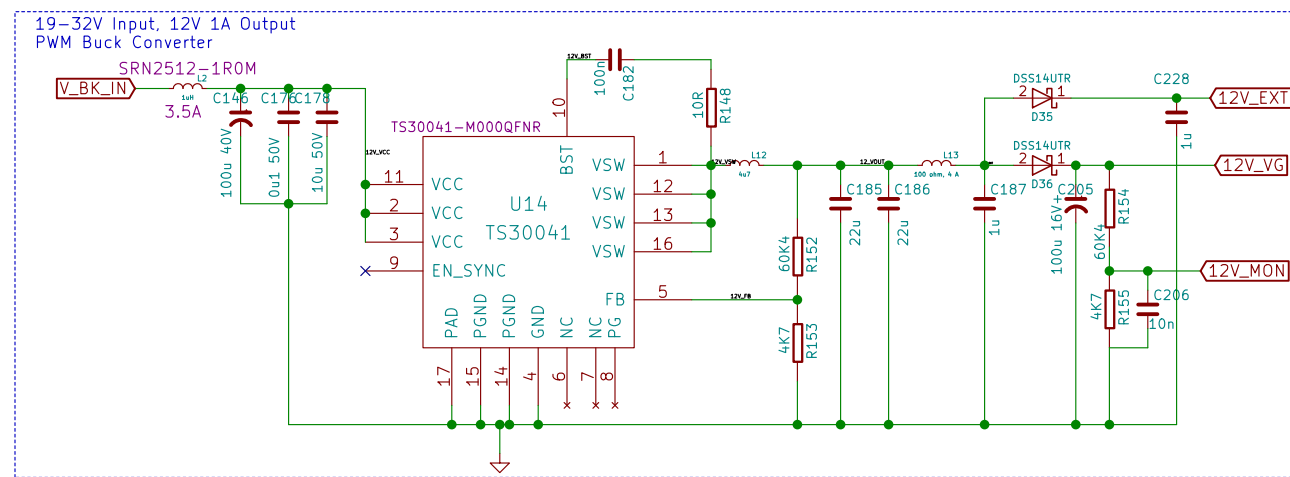
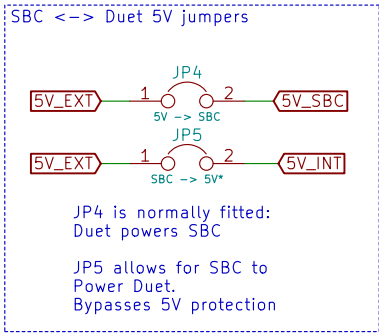
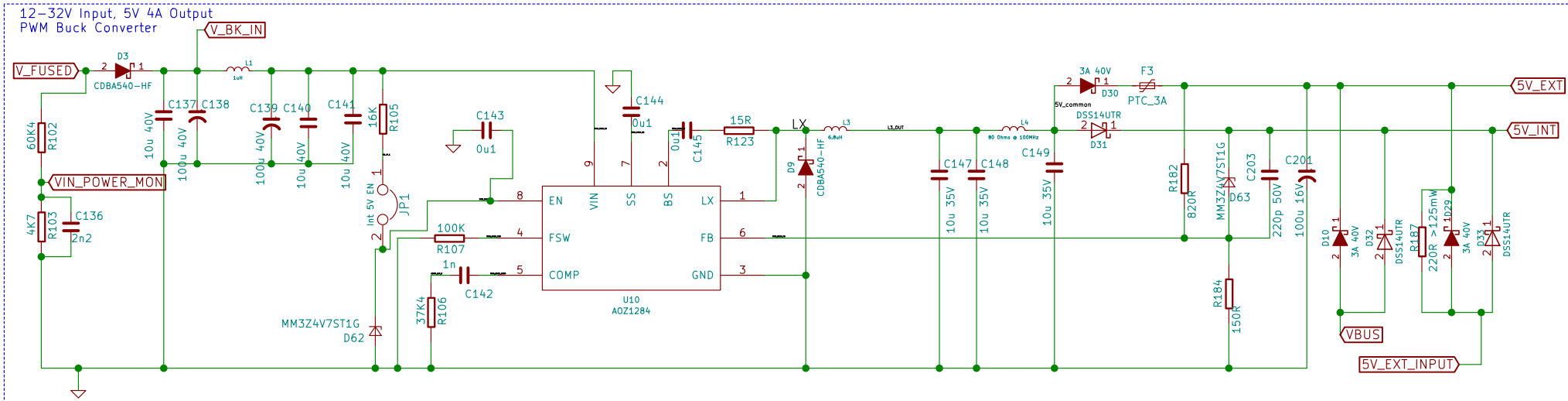
Size: A4

Date: 2020-03-30

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Rev: 1.01

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Sheet: /Power/
File: Power.sch

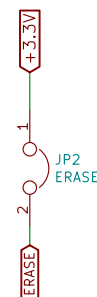
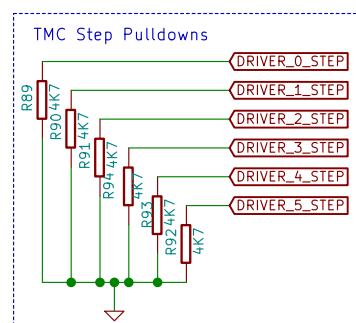
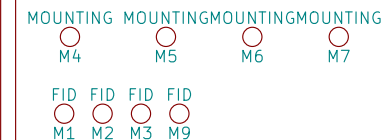
Title: Duet 3 Main Board

Size: A3 Date: 2020-03-30

Rev: 1.01

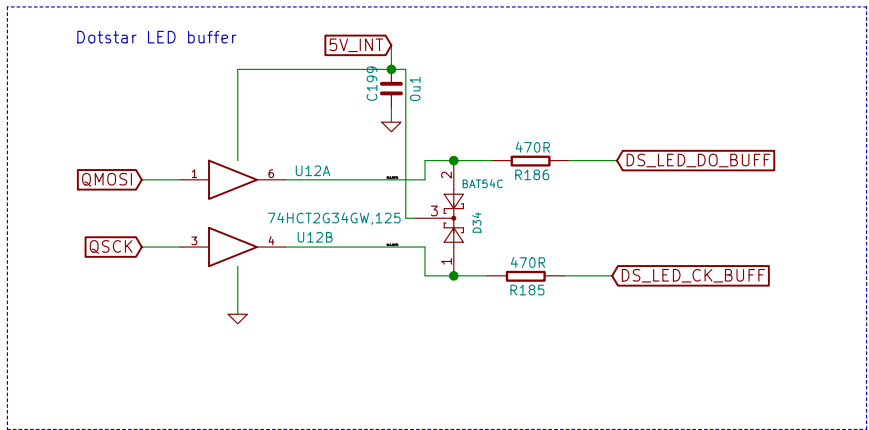
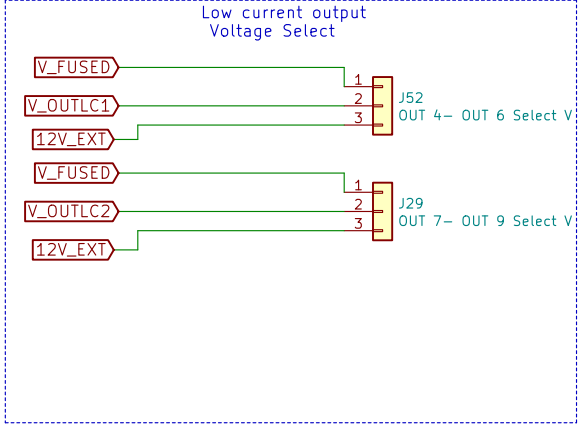
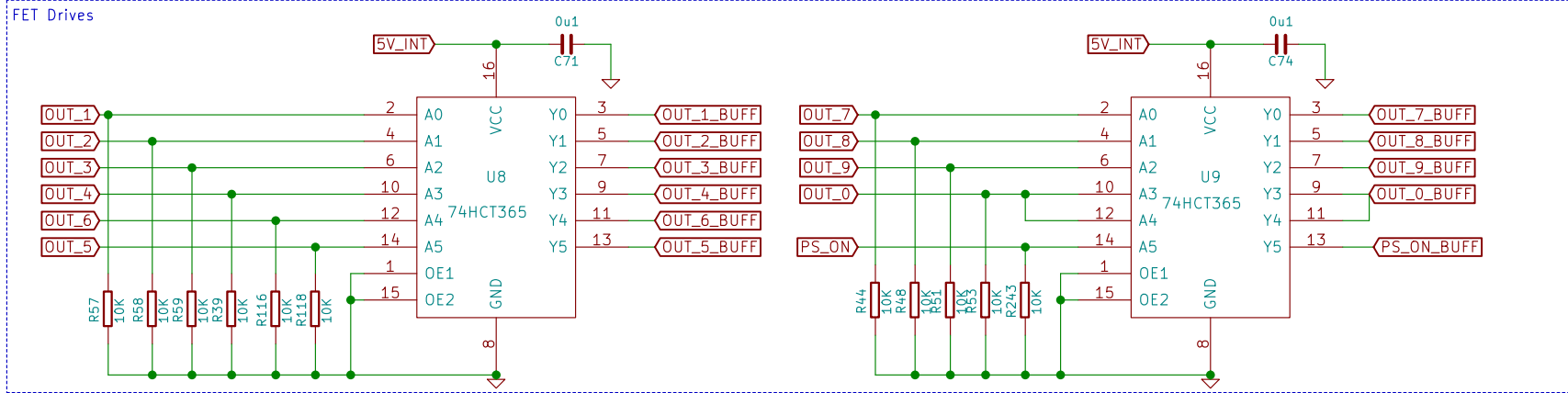
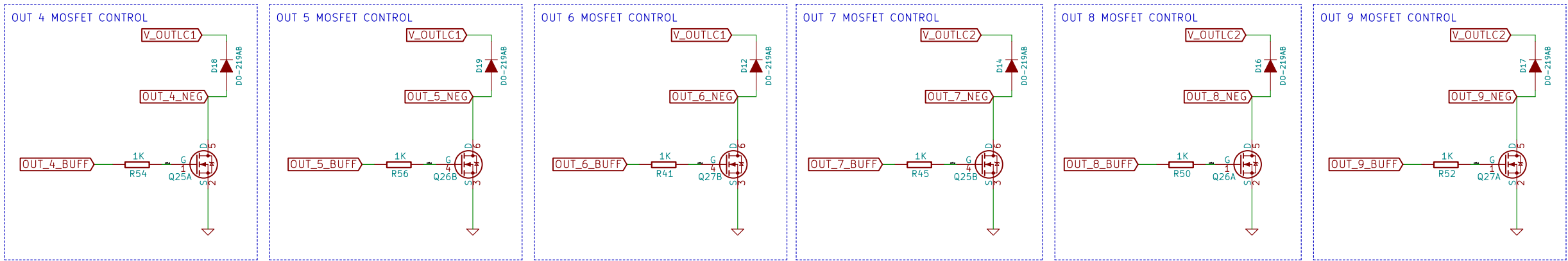
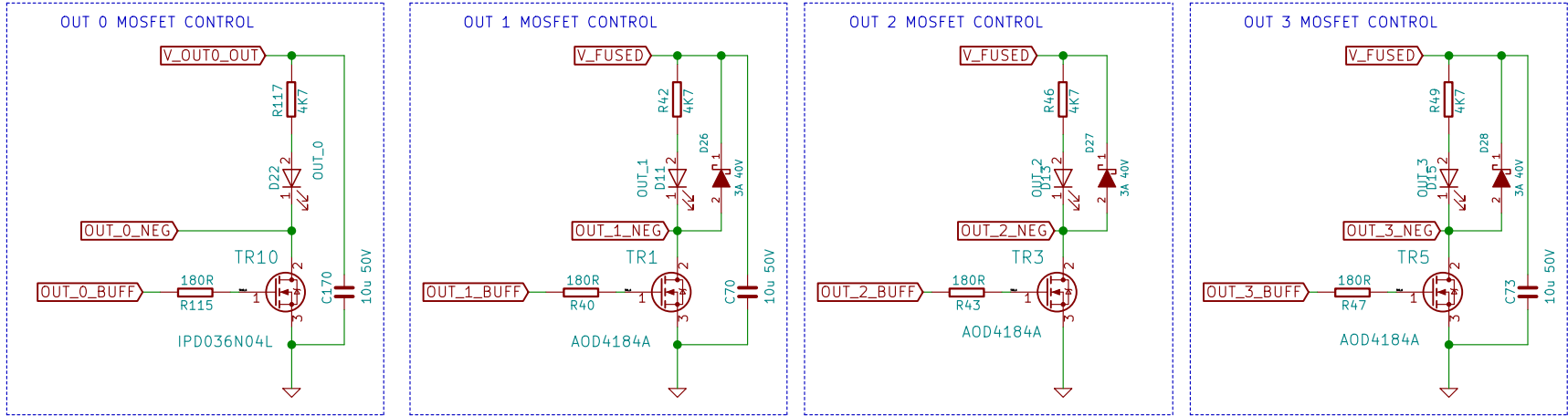
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OUT0 – OUT3 – High current MOSFETs



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Sheet: /MOSFET outputs/
File: Htr_Fan.sch

Title: Duet 3 Main Board

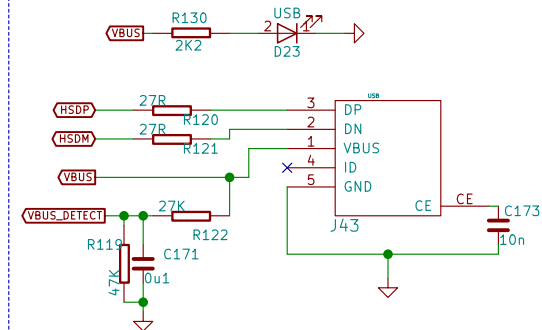
Size: A3 Date: 2020-03-30

Rev: 1.01

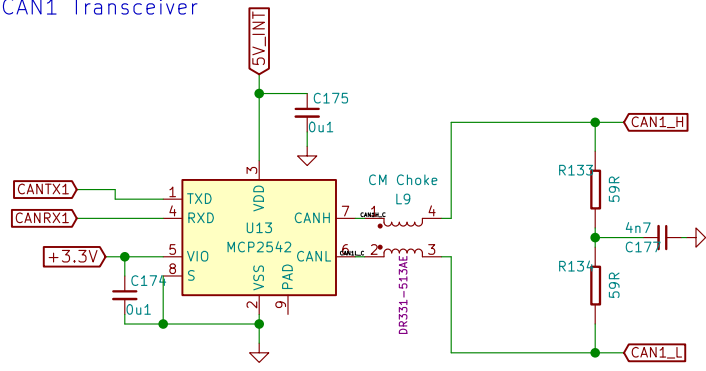
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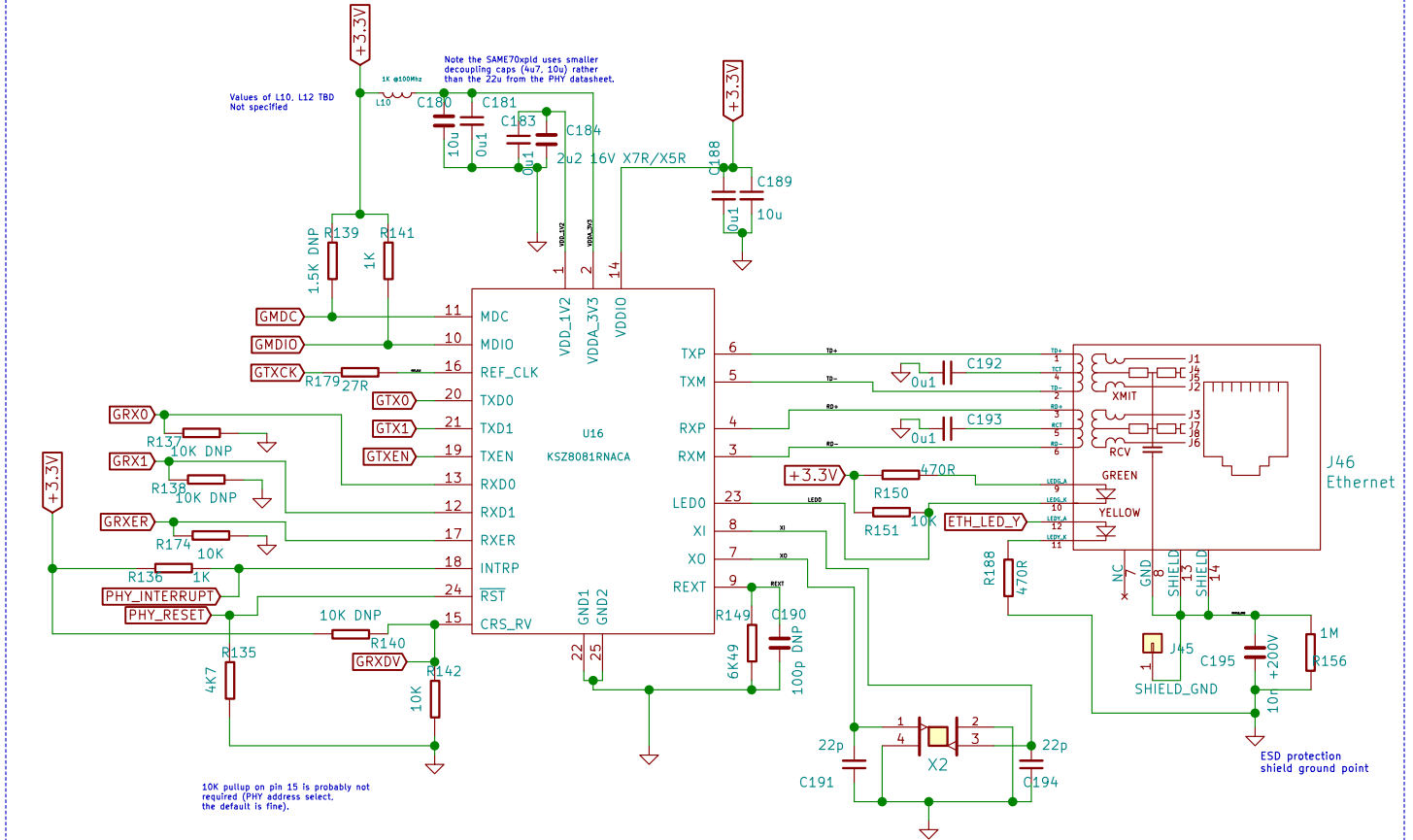
USB



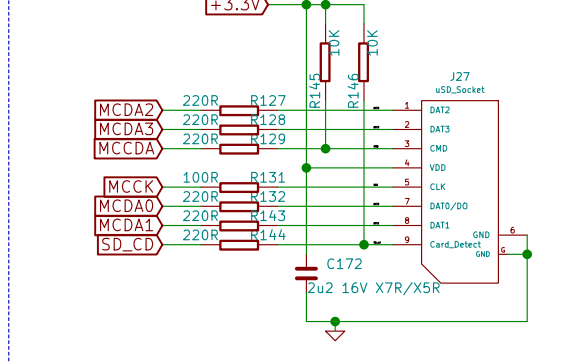
CAN1 Transceiver



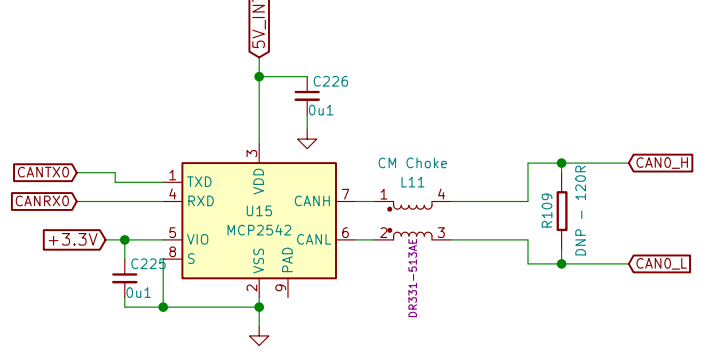
Ethernet/Ethercat Master



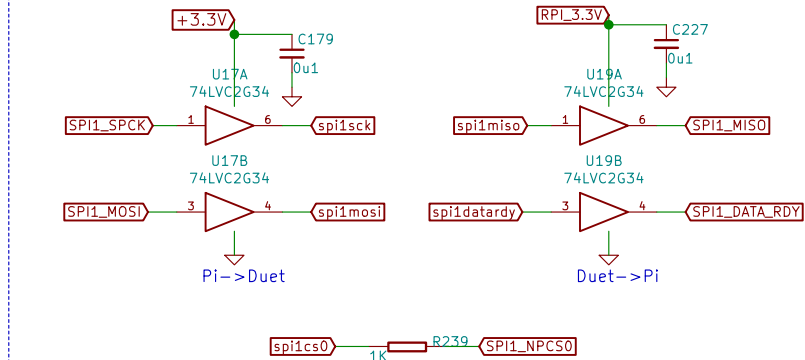
uSD



CAN0 Transceiver



RPI Comms Buffers



Off board termination resistors required for CAN0 bus. Alternative solder 120 Ohm 1206 resistor to the DNP pads at the bottom of the board

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Duet3D
Sheet: /sheet5B64A4E5/
File: Comms.sch

Title: Duet 3 Main Board

Size: A3 Date: 2020-03-30
KiCad E.D.A. kicad (5.1.4)-1

Rev: 1.01
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