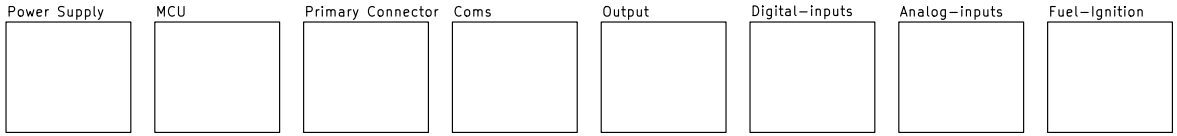
Closed Deck X4

©2024 OpenLogicEFI (Aaron S.)

(Formerly DetonationEMS)

PN:CDX4a



OpenLogicEFI ECU's are designed for use with Speeduino firmware.
– https://github.com/noisymime/speeduino

Board Selection in tuner studio for this ECU is "Speeduino v0.4"

OpenLogicEFI GitHub – https://github.com/OpenLogicEFI

Speeduino Official GitHub – https://github.com/noisymime/speeduino

Please consider sponsoring Speeduino and Josh on github
so he can advance his efforts.
https://github.com/sponsors/noisymime

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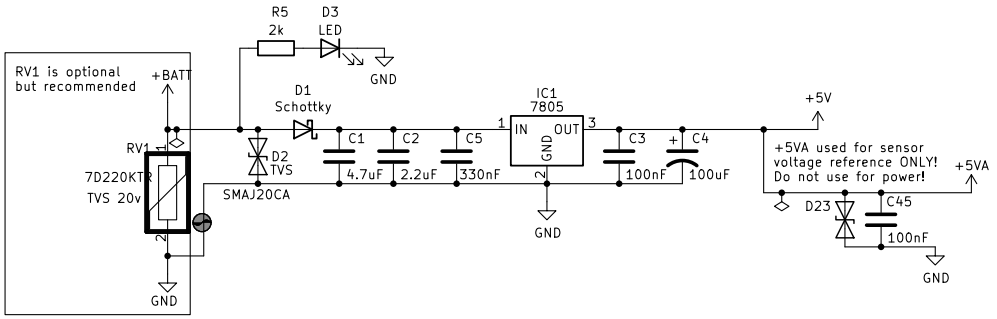
Sheet: /
File: closed-deck-x4.kicad_sch

Title: Closed Deck X4

Size: USLetter	Date: 2024-04-25	**Rev: A**
KiCad E.D.A. 9.0.1		Id: 1/9



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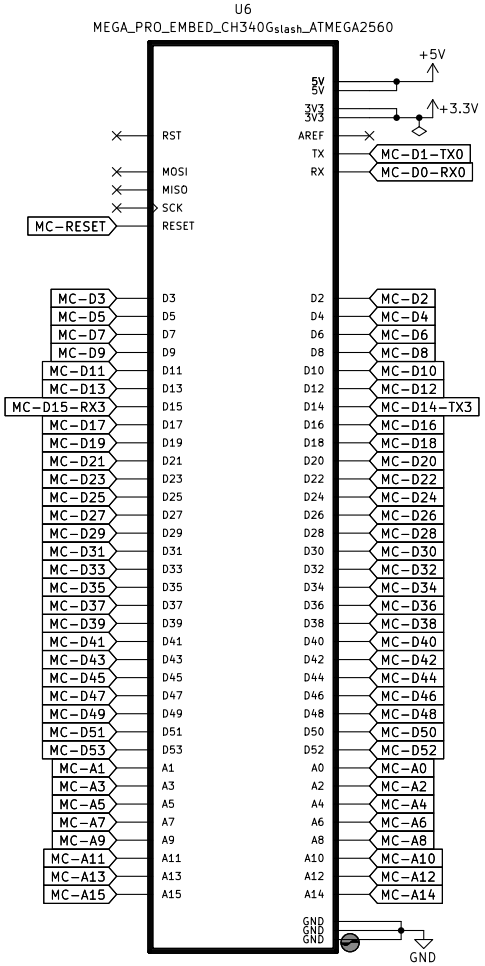
Sheet: /Power Supply/

File: powersupply.kicad_sch

Title: Closed Deck X4

Size: A4	Date: 2024-04-25	**Rev: A**
KiCad E.D.A. 9.0.1		Id: 1/9

Mega2560 Pro Mini
(Robotdyn Footprint)



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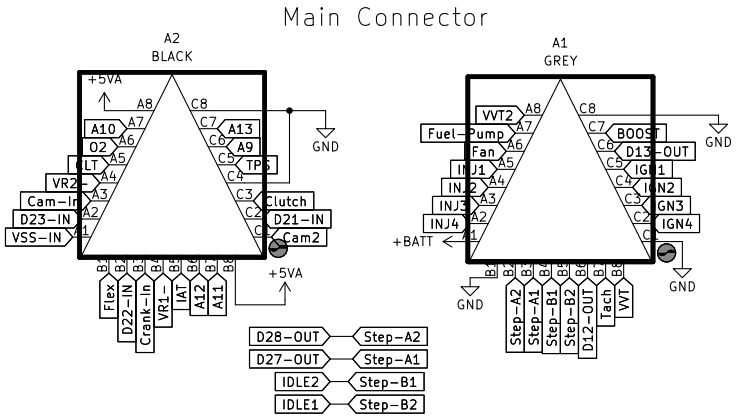
Sheet: /MCU/
File: mcu.kicad_sch

Title: Closed Deck X4

Size: A4	Date: 2024-04-25	**Rev: A**
KiCad E.D.A. 9.0.1		Id: 2/9



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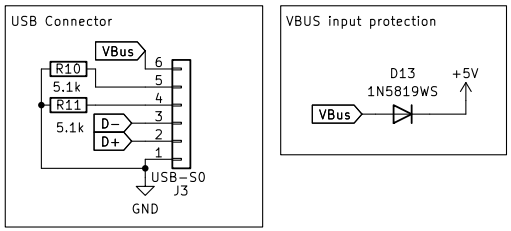
Sheet: /Primary Connector/

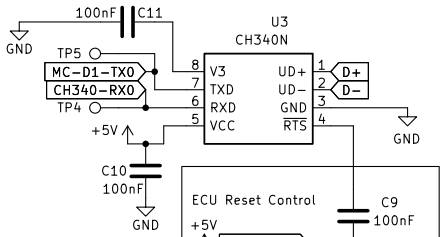
File: connector.kicad_sch

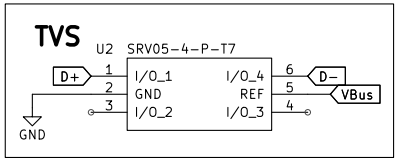
Title: Closed Deck X4

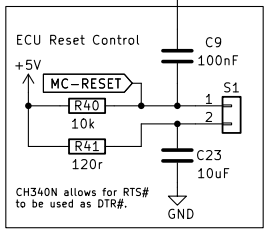
Size: A4	Date: 2024-04-25	**Rev: A**
KiCad E.D.A. 9.0.1		Id: 3/9

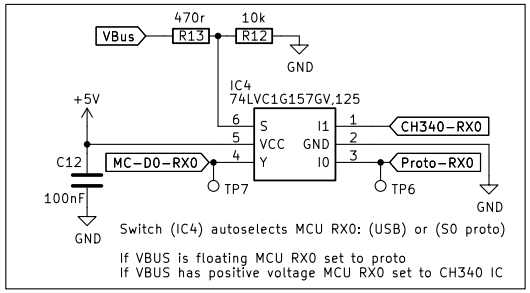
Serial & USB

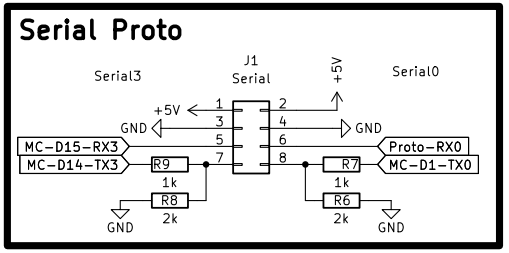












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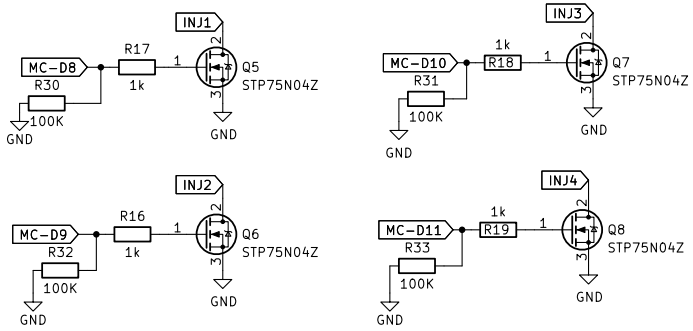
Sheet: /Coms/
File: usb.kicad_sch

Title: Closed Deck X4

Size: A4	Date: 2024−04−25	**Rev: A**
KiCad E.D.A. 9.0.1		Id: 4/9

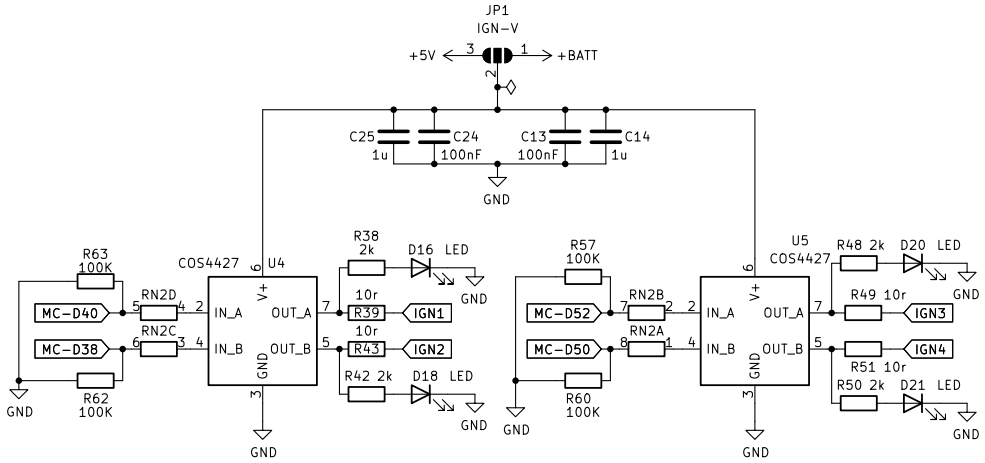
Fuel Injector Output



Clamping injector drivers between 30–50v is required
for proper fuel injector function and driver protection.

STP75B04Z & STP62NS04Z are internally clamped at 42v

Logic Level Ignition Output



Attempting to directly drive a "dumb" coil will destroy components

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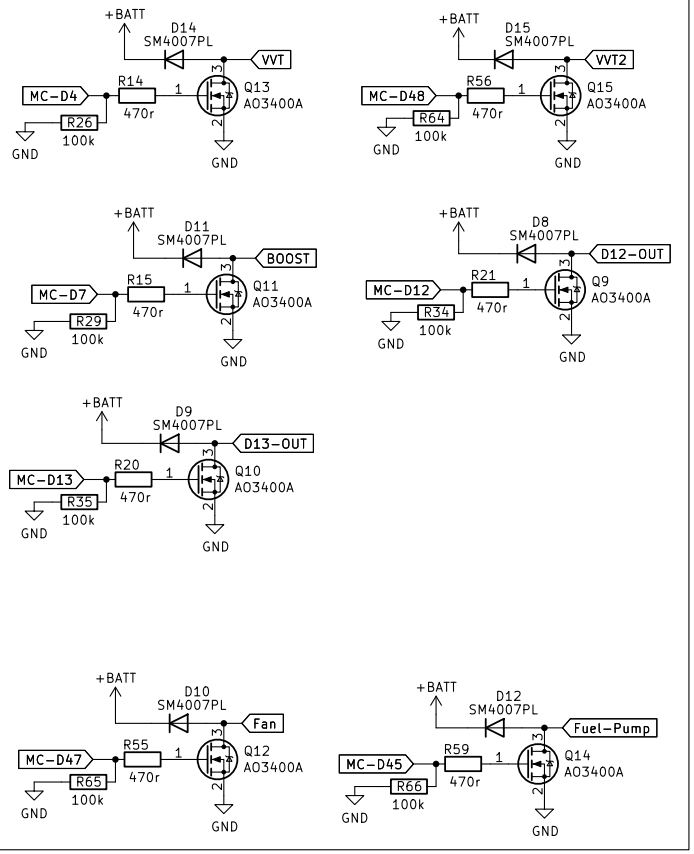
Sheet: /Fuel-Ignition/
File: fuel-ignition.kicad_sch

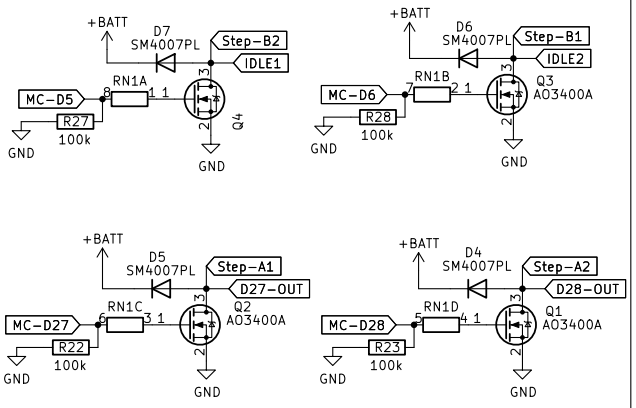
Title: Closed Deck X4

Size: A4	Date: 2024-04-25	**Rev: A**
KiCad E.D.A. 9.0.1		Id: 5/9

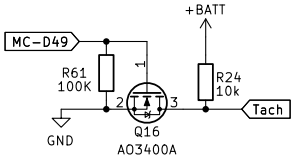
LOW Digital Output



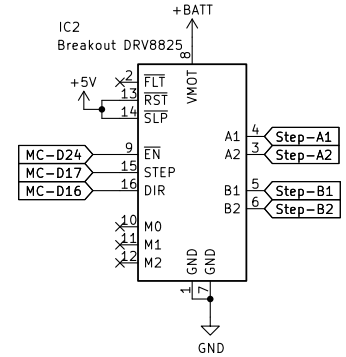
LOW Digital Output



Tach output



Stepper Driver



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Sheet: /Output/

File: output.kicad_sch

Title: Closed Deck X4

Size: A4	Date: 2024-04-25	**Rev: A**
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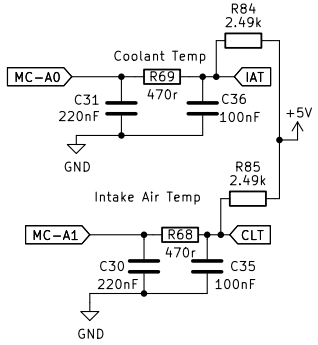
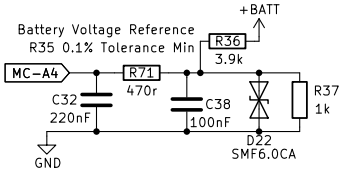
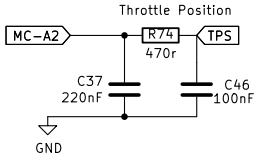
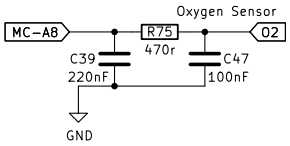
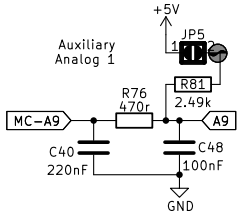
Analog Inputs

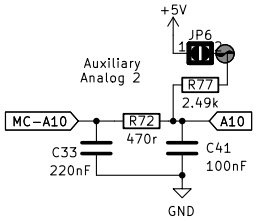


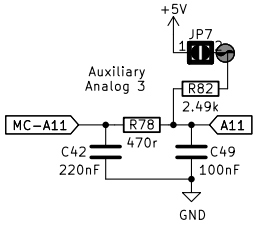


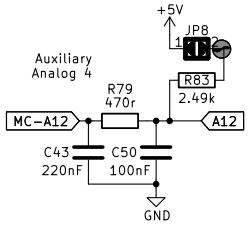


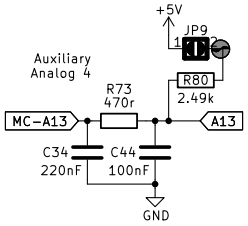


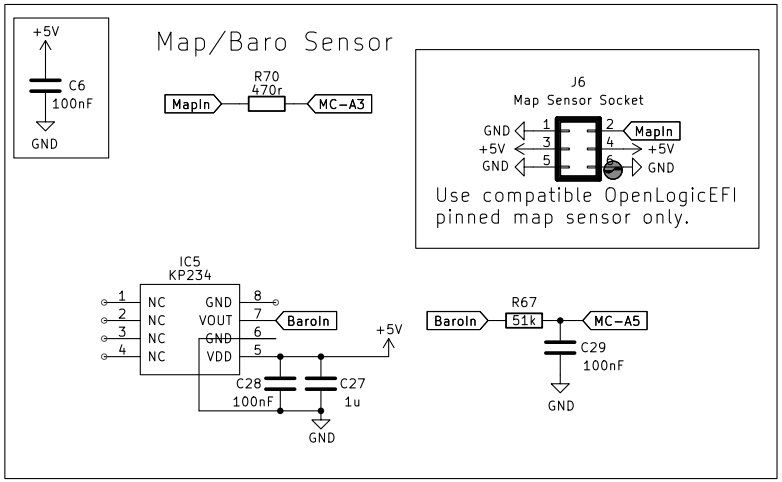


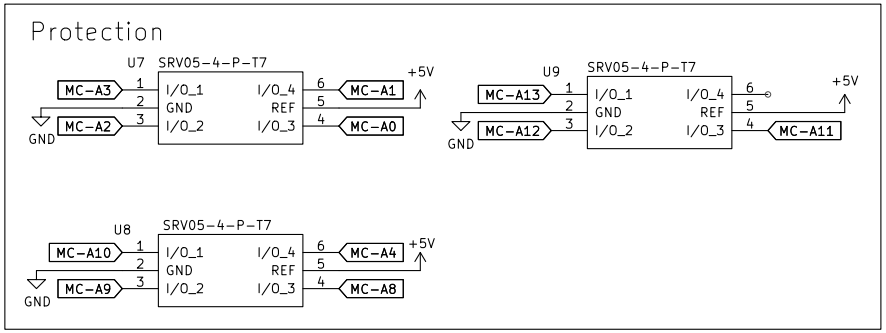












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Sheet: /Analog-inputs/
File: input.kicad_sch

Title: Closed Deck X4

Size: A4	Date: 2024-04-25	**Rev: A**
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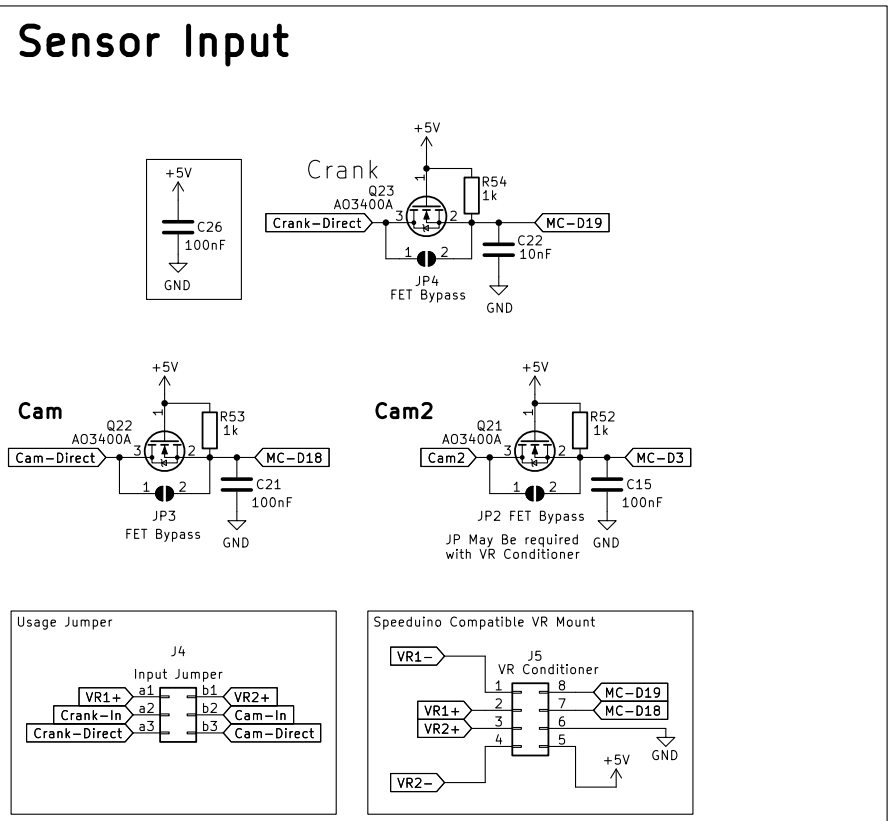
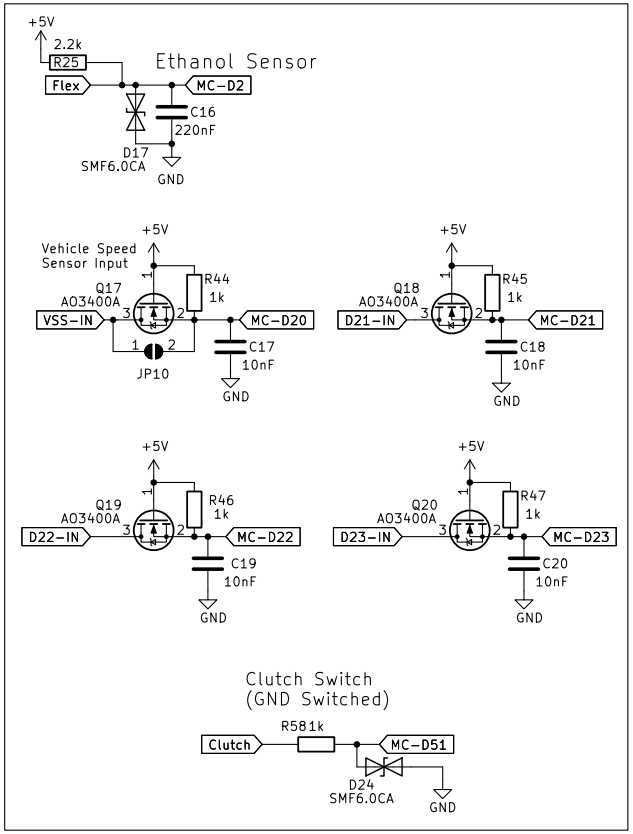
Crank/Cam Sensor Input





Digital Inputs

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Sheet: /Digital-inputs/

File: digital-inputs.kicad_sch

Title: Closed Deck X4

Size: A4	Date: 2024-04-25	**Rev: A**
KiCad E.D.A. 9.0.1		Id: 8/9