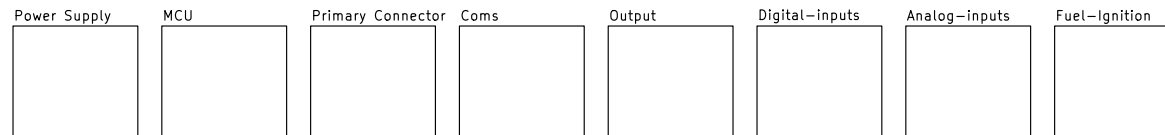


Closed Deck X4

©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>

OpenLogicEFI.com

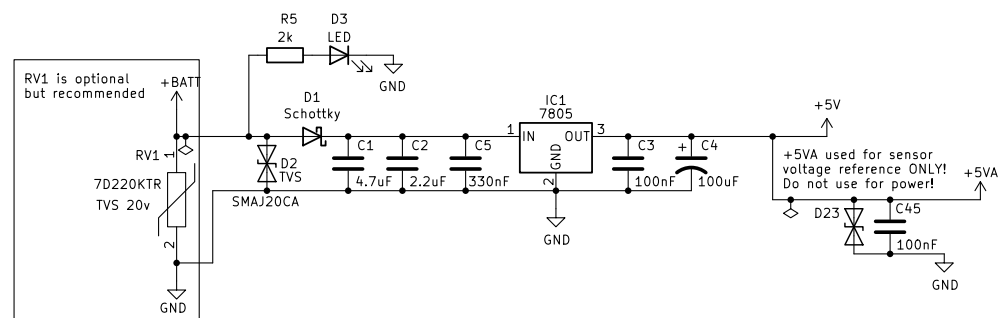
openlogicEFI.com
OpenLogicEFI

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

Title: Closed Deck X4

Size: USLetter Date: 2024-04-25
KiCad E.D.A. 8.0.5-dirty

Rev: A
Id: 1/9



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Sheet: /Power Supply/

File: powersupply.kicad_sch

Title: Closed Deck X4

Size: A4

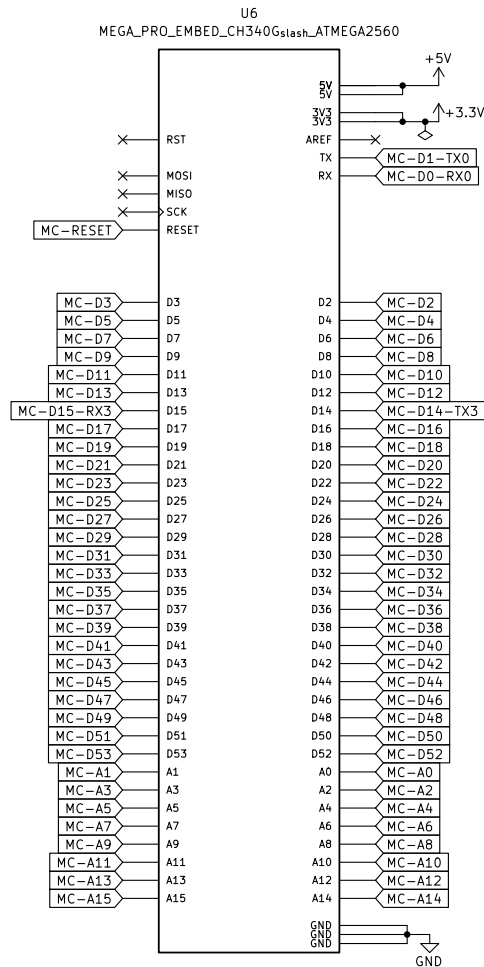
Date: 2024-04-25

Rev: A

KiCad E.D.A. 8.0.5-dirty

Id: 1/9

Mega2560 Pro Mini
(Robotdyn Footprint)



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Sheet: /MCU/

File: mcu.kicad_sch

Title: Closed Deck X4

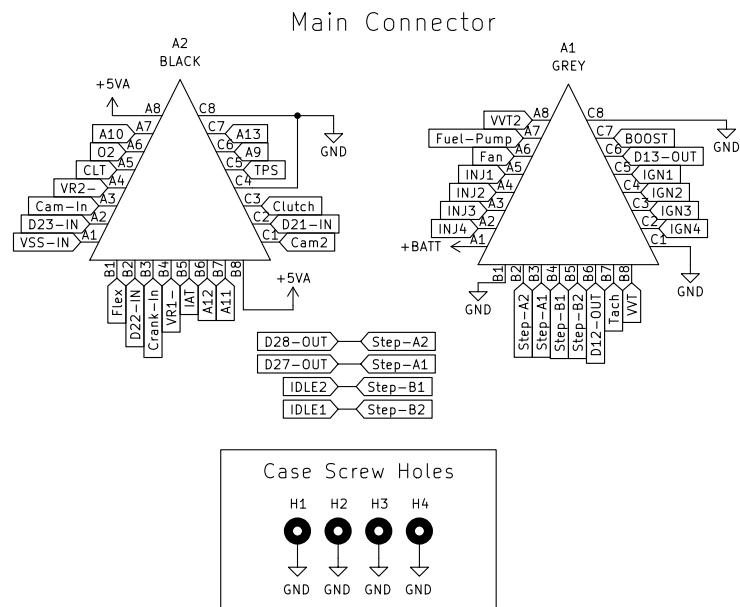
Size: A4

Date: 2024-04-25

Rev: A

KiCad E.D.A. 8.0.5-dirty

Id: 2/9



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Sheet: /Primary Connector/

File: connector.kicad_sch

Title: Closed Deck X4

Size: A4

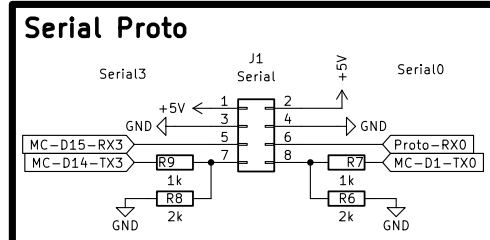
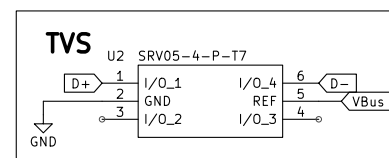
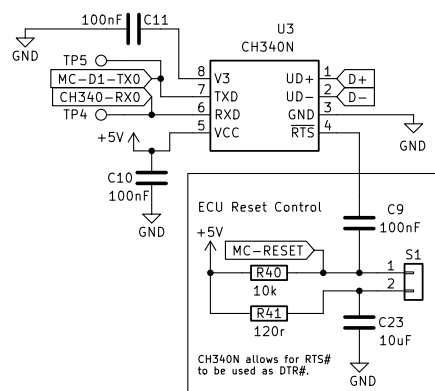
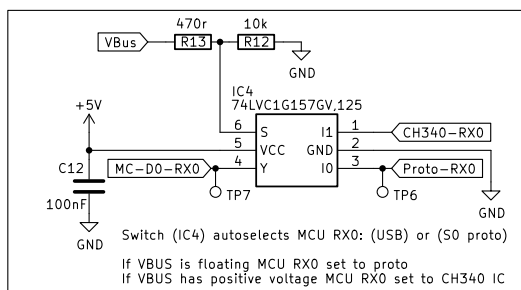
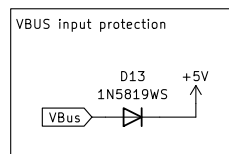
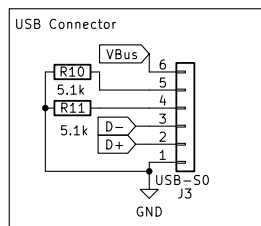
Date: 2024-04-25

Rev: A

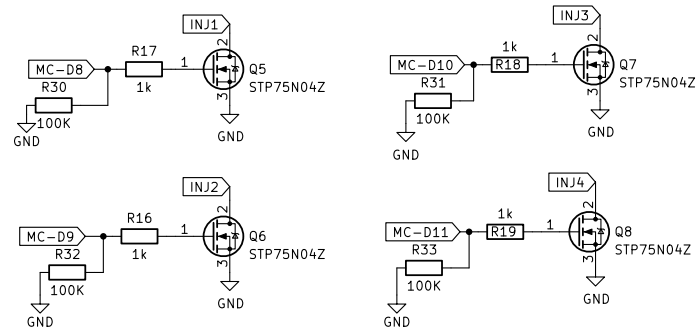
KiCad E.D.A. 8.0.5-dirty

Id: 3/9

Serial & USB



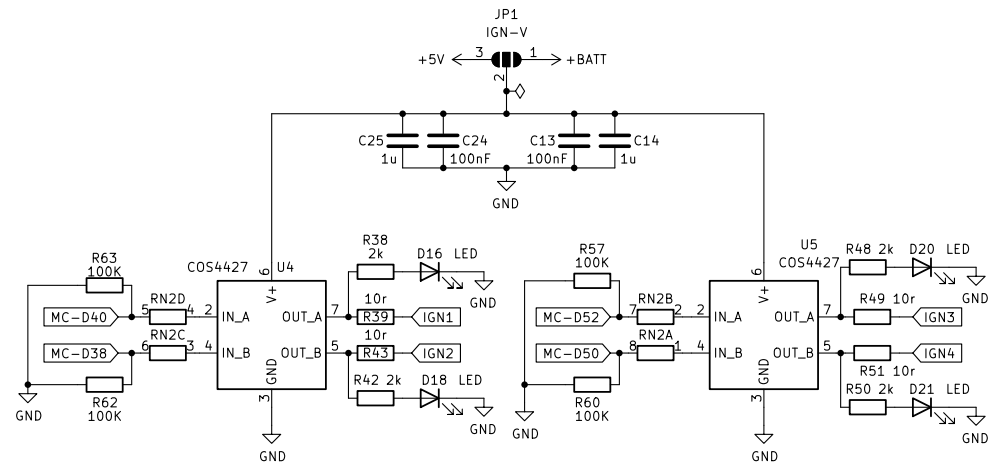
Fuel Injector Output



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

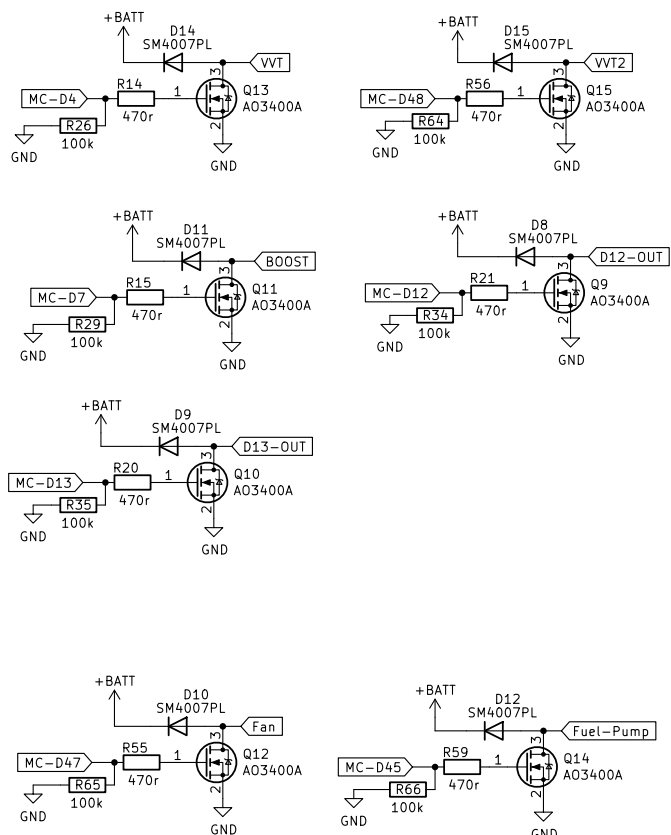
Date: 2024-04-25

Rev: A

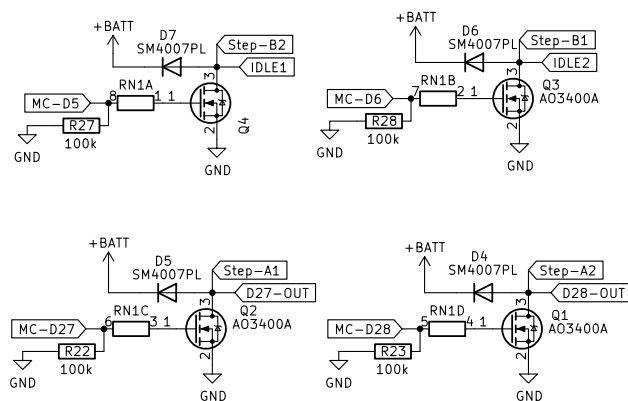
KiCad E.D.A. 8.0.5-dirty

Id: 5/9

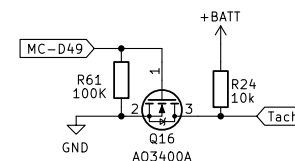
LOW Digital Output



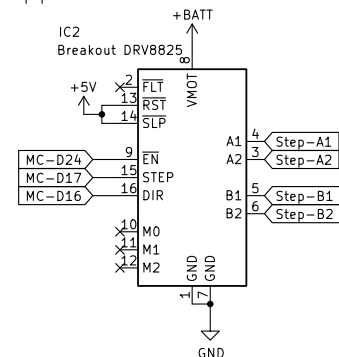
LOW Digital Output



Tach output



Stepper Driver



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Sheet: /Output/

File: output.kicad_sch

Title: Closed Deck X4

Size: A4

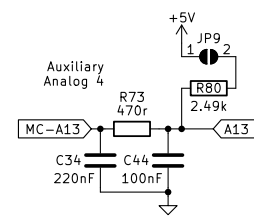
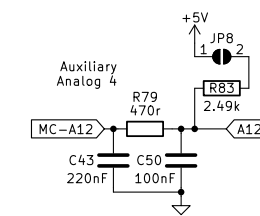
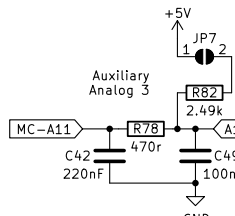
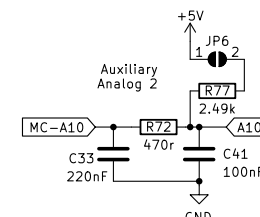
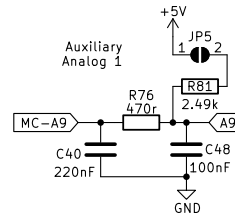
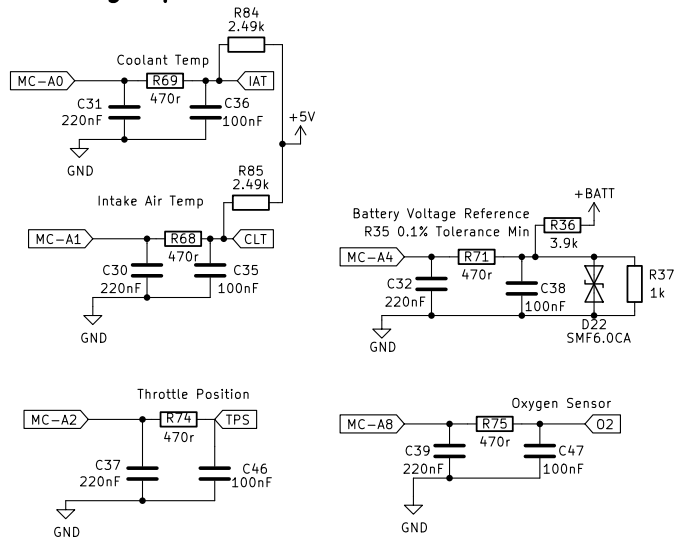
Date: 2024-04-25

Rev: A

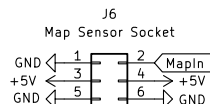
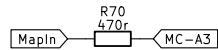
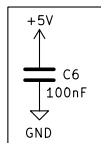
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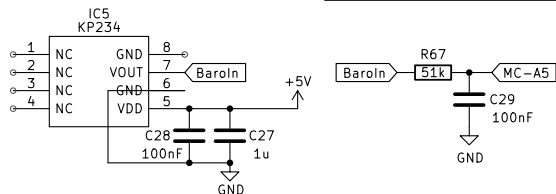
Analog Inputs



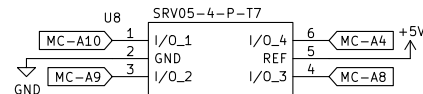
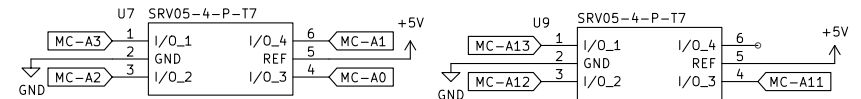
Map/Baro Sensor



Use compatible OpenLogicEFI pinned map sensor only.



Protection



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Sheet: /Analog-inputs/

File: input.kicad_sch

Title: Closed Deck X4

Size: A4

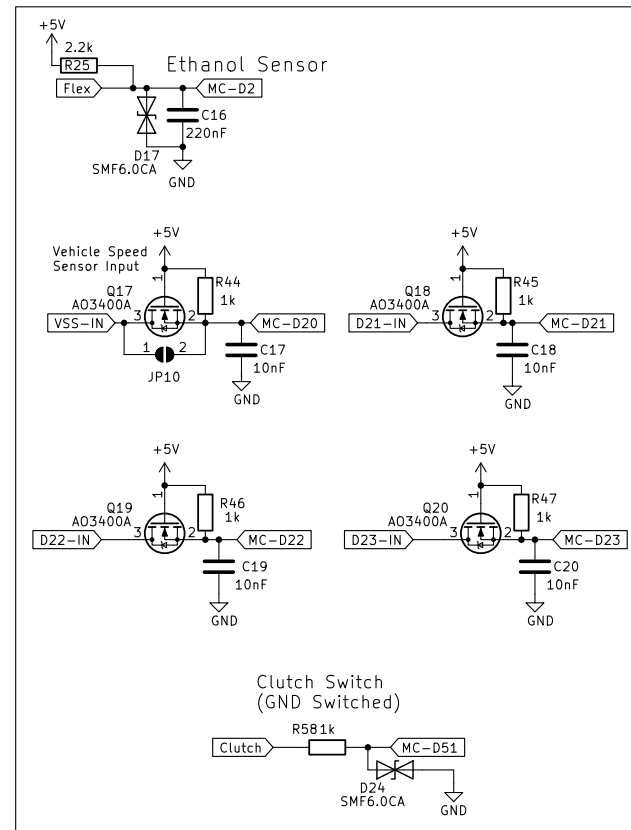
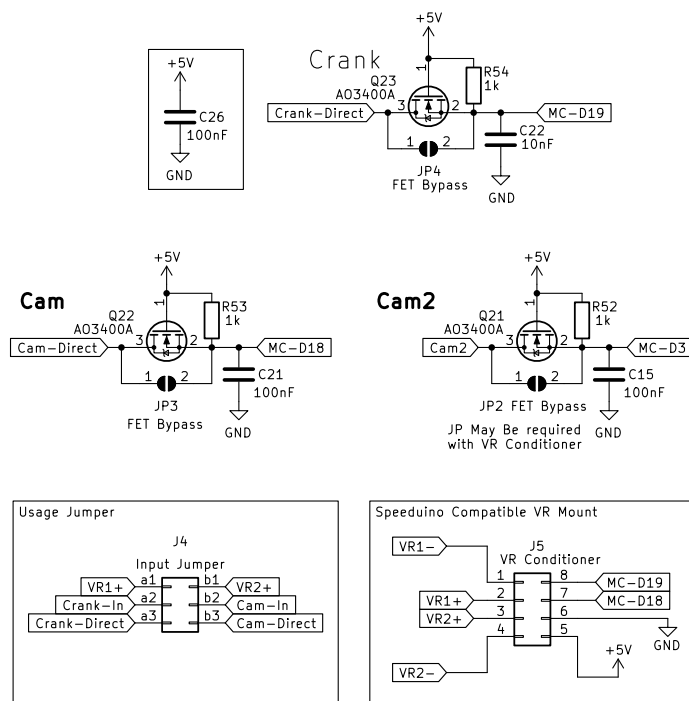
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Id: 7/9

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. 8.0.5-dirty

Id: 8/9