

Sheet: Connector

Sheet: Fuel-Ignition

Sheet: Analog Inputs

Sheet: Output

File: Connector.sch

File: Fuel-Ignition.sch

File: Analog.sch

File: Output.sch

Pre-Ignition X4
By: DetonationEMS

DetonationEMS.com

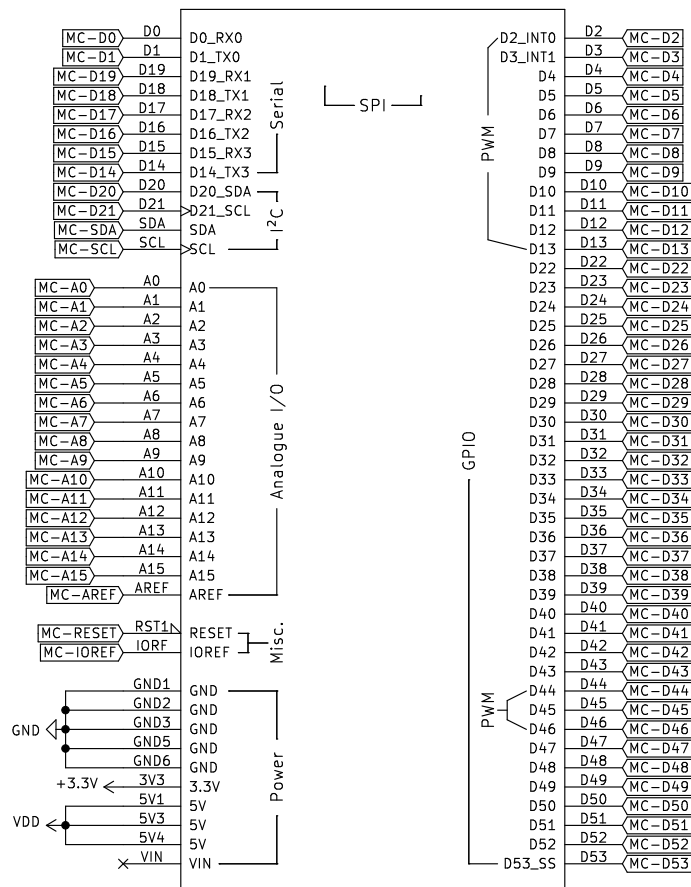
If you are happy with DetonationEMS, Speeduino Compatible devices, Firmware and/or Software please consider sponsoring Josh so he can advance his efforts.

<https://github.com/sponsors/noisymime>

Arduino Mega 2560 R3

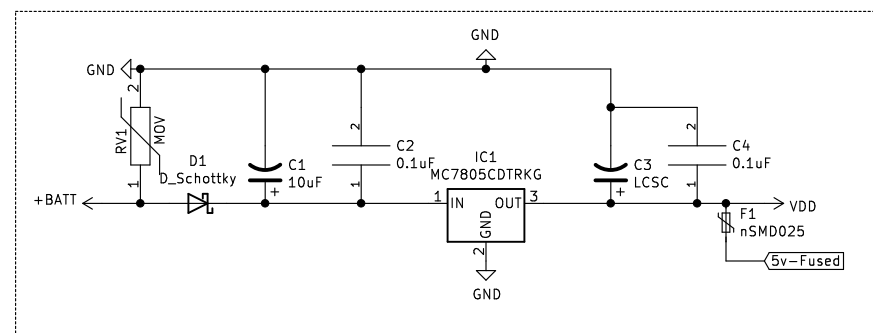
XA1

Arduino_Mega2560_Shield-Arduino



Remove DC Jack for proper fitment.

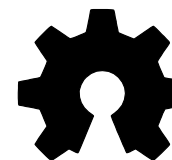
Power Supply



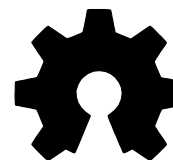
Symbol: OSHW-Logo_11.4x12mm_SilkScreen



Speeduino_Compatible1



Detonationems.com1



detonationems.com

DetonationEMS

Sheet: /

File: Pre-Ignition.sch

Title: Pre-Ignition X4

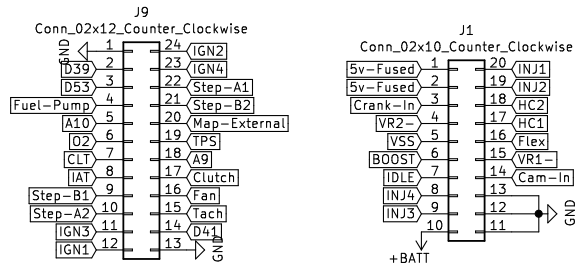
Size: USLetter Date: 2021-08-11

KiCad E.D.A. kicad (5.1.10)-1

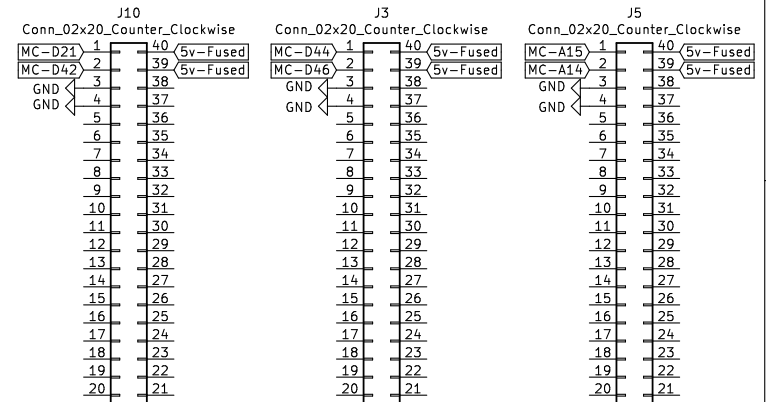
Rev: 1

Id: 1/5

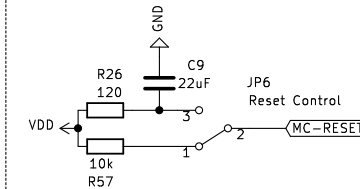
Main Connection



Proto Area



Reset Control



Sheet: /Connector/
File: Connector.sch

Title:

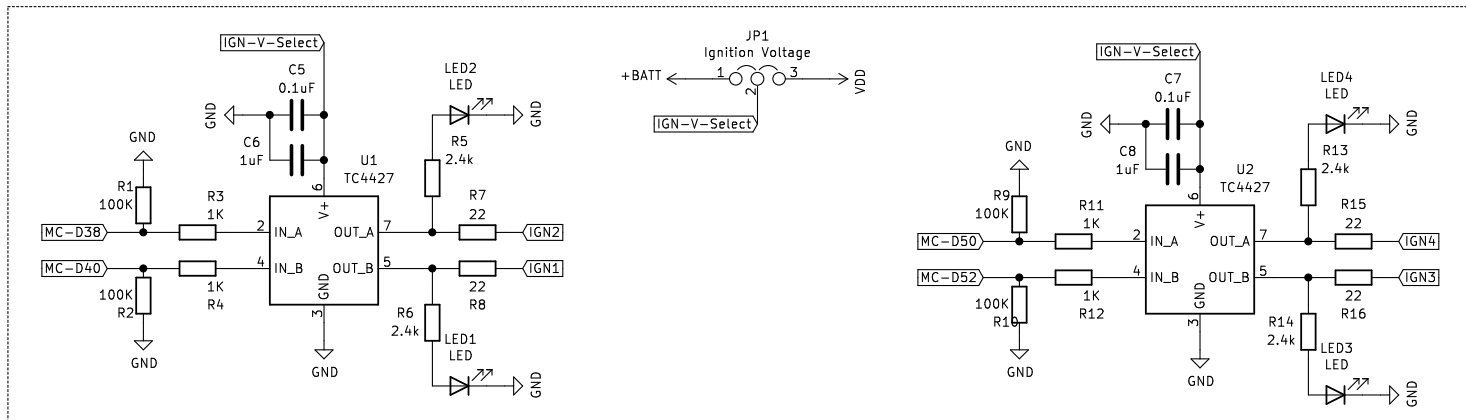
Size: A4 Date:

KiCad E.D.A. kicad (5.1.10)-1

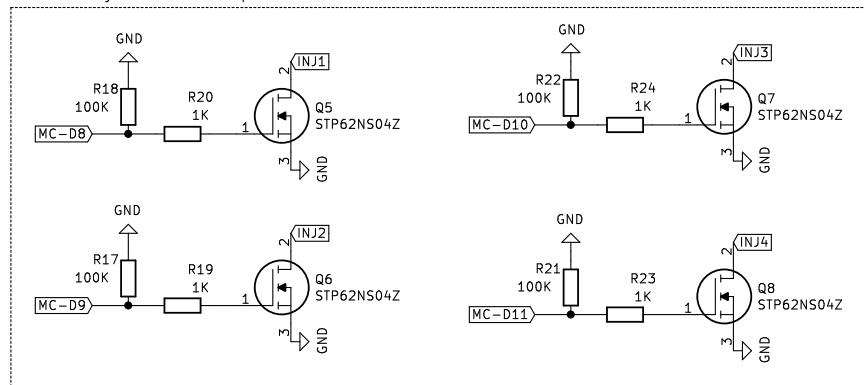
Rev: 1

Id: 2/5

Ignition Output



Fuel Injector Output



Sheet: /Fuel-Ignition/
File: Fuel-Ignition.sch

Title:

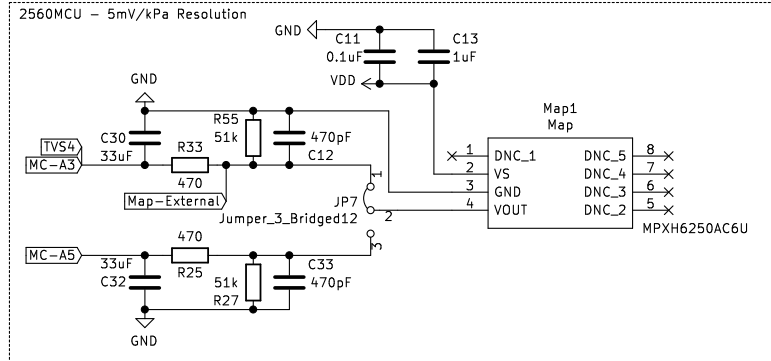
Size: A4 Date:

KiCad E.D.A. kicad (5.1.10)-1

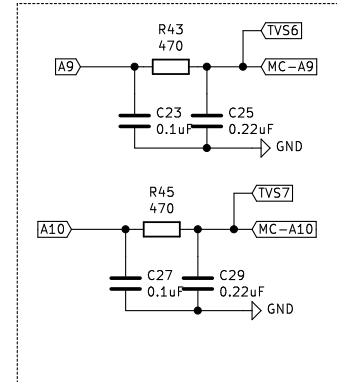
Rev: 1

Id: 3/5

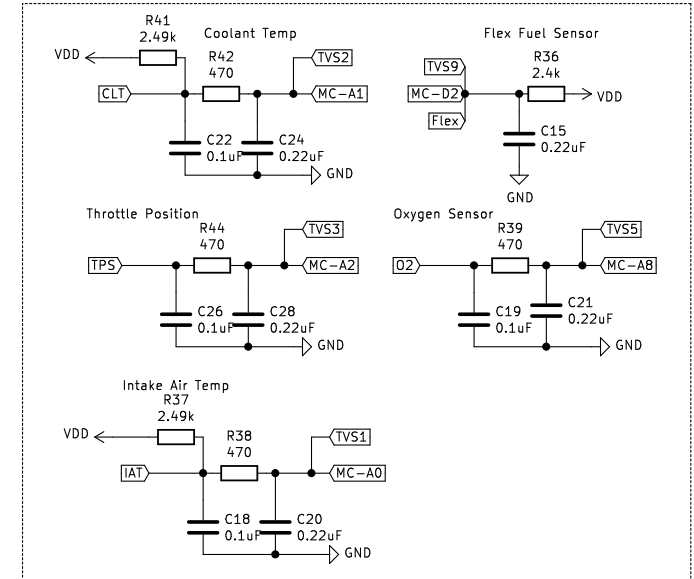
Map Sensor



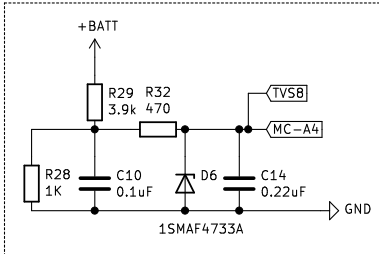
Aux-Analog-Inputs



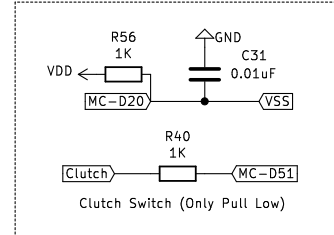
Engine Inputs



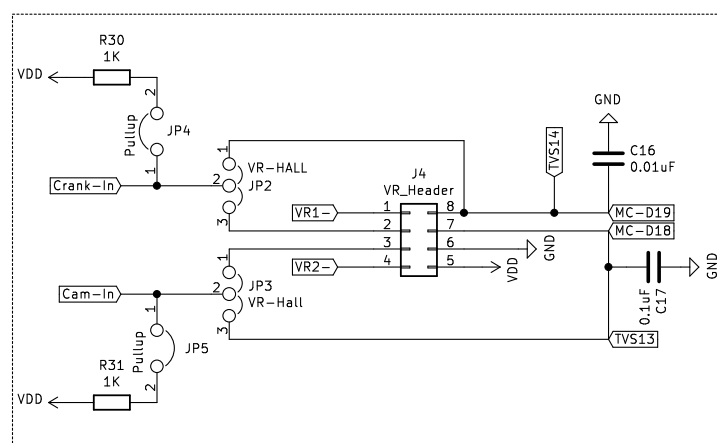
Battery Voltage Reference



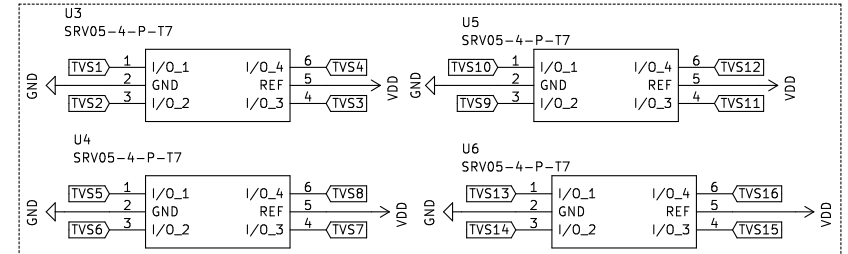
VSS / Clutch Input



Crank/Cam Sensor



5v-Clamp



Sheet: /Analog Inputs/
File: Analog.sch

Title:

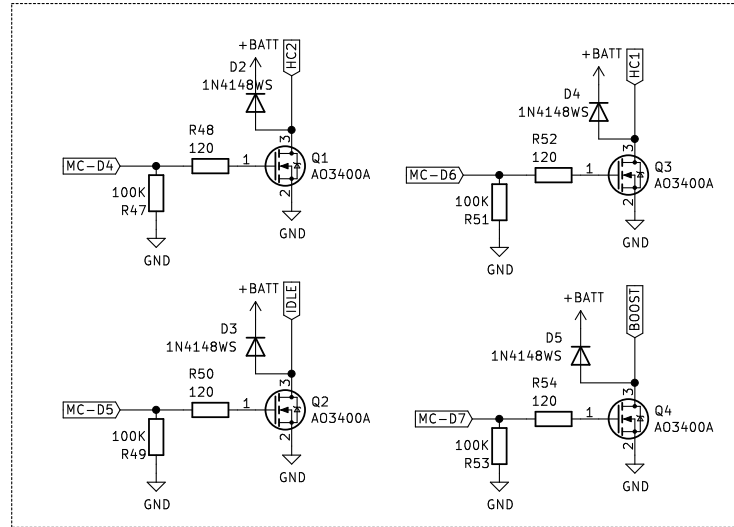
Size: A4 Date:

KiCad E.D.A. kicad (5.1.10)-1

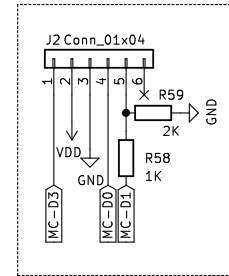
Rev:

Id: 4/5

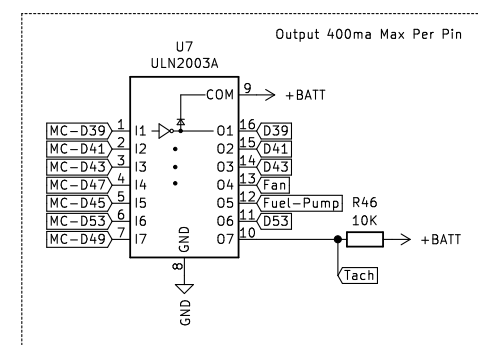
High Current Output – 1A Max



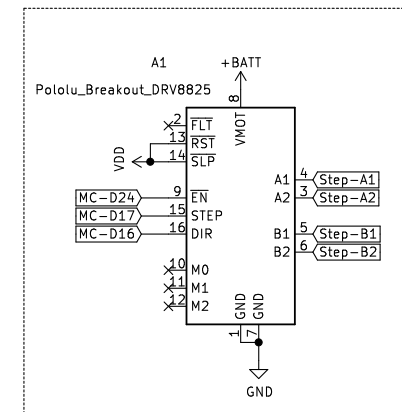
Bluetooth



Relay Control / Tach Output



Stepper Driver



Sheet: /Output/
File: Output.sch

Title:

Size: A4 Date:

KiCad E.D.A. kicad (5.1.10)-1

Rev:

Id: 5/5