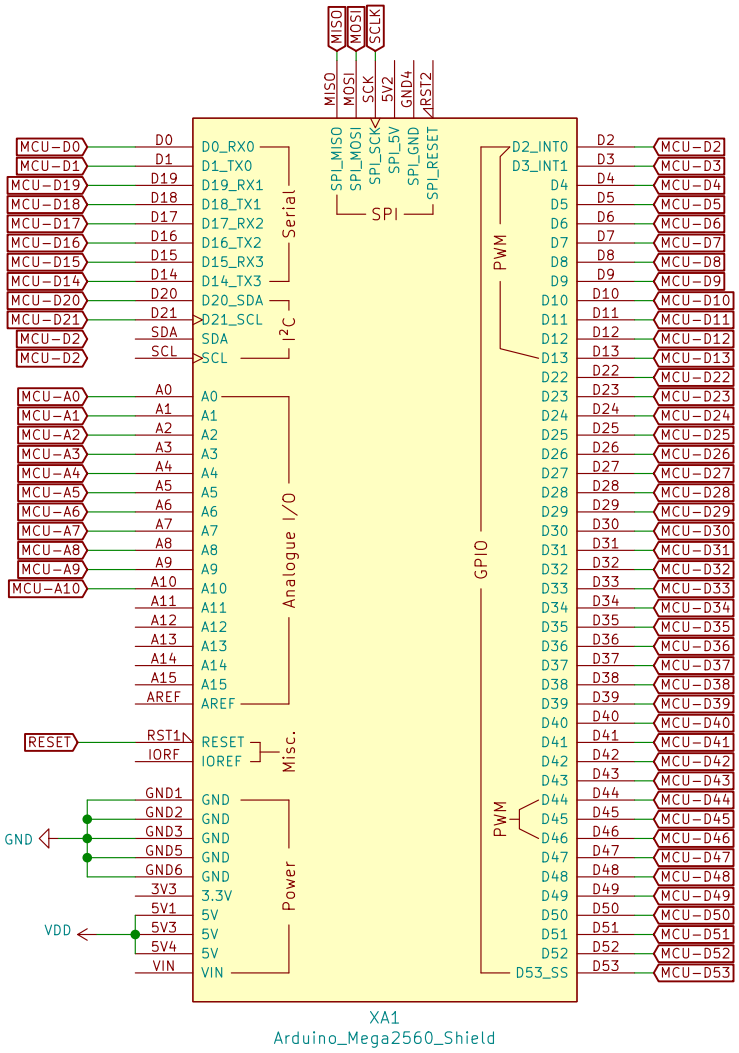

Sheet: Fuel & Ignition
File: Fuel_Ignition.sch

Sheet: Inputs
File: inputs.sch

Sheet: Power
File: power.sch

Sheet: Connector
File: connector.sch

Sheet: Outputs
File: outputs.sch

Sheet: Proto Area
File: proto.sch

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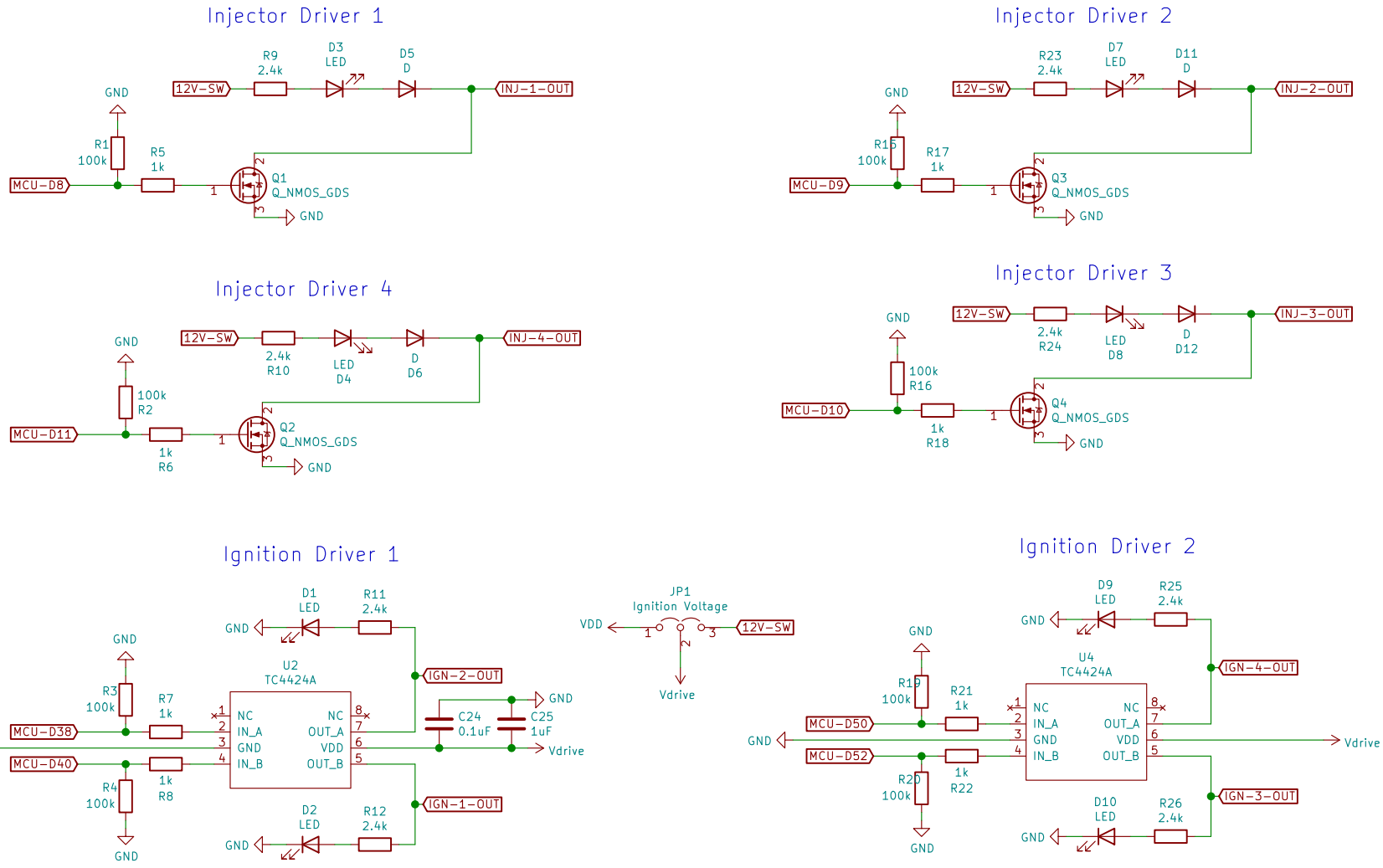
Sheet: /
File: v0.4.3d.sch

Title: 0.4

Size: A4	Date: 2021-03-27	**Rev: 4d**
KiCad E.D.A. kicad (5.1.9-0-10_14)		Id: 1/7



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File: Fuel_Ignition.sch

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Size: A4	Date: 2021-03-27	**Rev: 4d**
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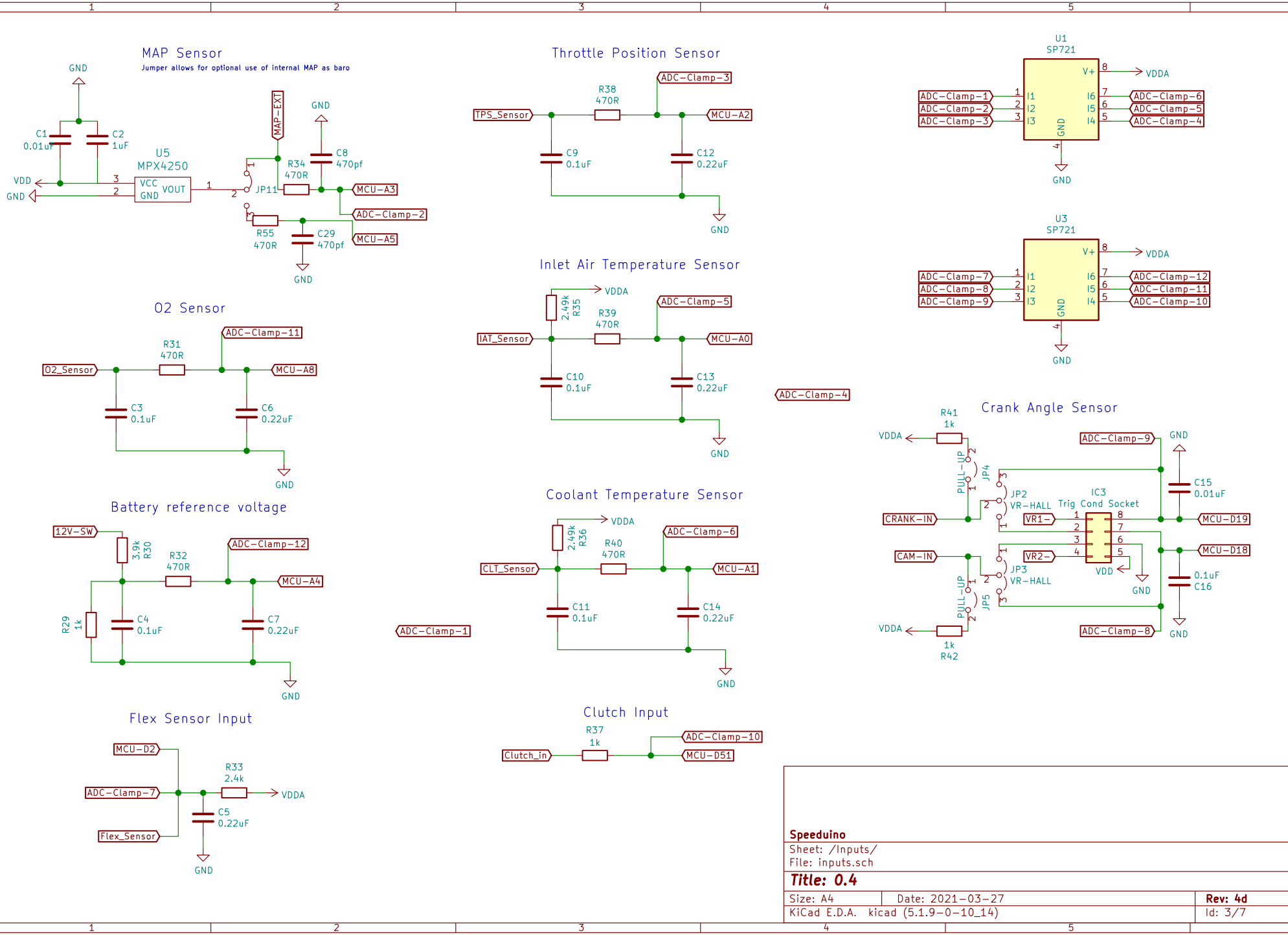
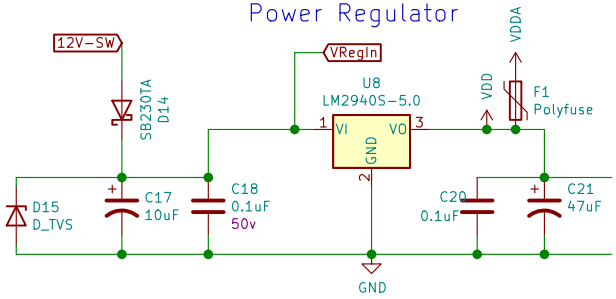
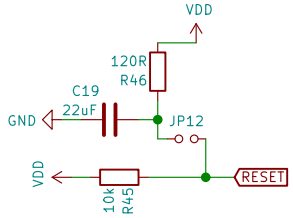

MAP Sensor
Jumper allows for optional use of internal MAP as baro
GND
C1
0.01uF
C2
1uF
U5
MPX4250
VDD
GND
VCC
GND
VOUT
MAP-EXT
JP11
R34
470R
C8
470pf
MCU-A3
ADC-Clamp-2
R55
470R
C29
470pf
MCU-A5
Throttle Position Sensor
TPS_Sensor
R38
470R
ADC-Clamp-3
MCU-A2
C9
0.1uF
C12
0.22uF
U1
SP721
V+
VDDA
I1
I2
I3
I6
I5
I4
ADC-Clamp-1
ADC-Clamp-2
ADC-Clamp-3
ADC-Clamp-6
ADC-Clamp-5
ADC-Clamp-4
U3
SP721
ADC-Clamp-7
ADC-Clamp-8
ADC-Clamp-9
ADC-Clamp-12
ADC-Clamp-11
ADC-Clamp-10
O2 Sensor
O2_Sensor
R31
470R
ADC-Clamp-11
MCU-A8
C3
0.1uF
C6
0.22uF
Inlet Air Temperature Sensor
IAT_Sensor
2.49k
R35
R39
470R
ADC-Clamp-5
MCU-A0
C10
0.1uF
C13
0.22uF
Crank Angle Sensor
R41
1k
PULL-UP
JP4
JP2
VR-HALL
IC3
Trig Cond Socket
CRANK-IN
VR1-
ADC-Clamp-9
C15
0.01uF
MCU-D19
CAM-IN
VR2-
JP3
VR-HALL
MCU-D18
C16
0.1uF
JP5
R42
ADC-Clamp-8
Battery reference voltage
12V-SW
3.9k
R30
R32
470R
ADC-Clamp-12
MCU-A4
R29
1k
C4
0.1uF
C7
0.22uF
Coolant Temperature Sensor
CLT_Sensor
2.49k
R36
R40
470R
ADC-Clamp-6
MCU-A1
C11
0.1uF
C14
0.22uF
ADC-Clamp-1
Flex Sensor Input
MCU-D2
ADC-Clamp-7
Flex_Sensor
R33
2.4k
C5
0.22uF
Clutch Input
Clutch_in
R37
1k
ADC-Clamp-10
MCU-D51
Speeduino
Sheet: /Inputs/
File: inputs.sch
Title: 0.4
Size: A4
Date: 2021-03-27
Rev: 4d
KiCad E.D.A. kicad (5.1.9-0-10_14)
Id: 3/7

Power Regulator



Reset Protection

Refer AVR040 Application Note



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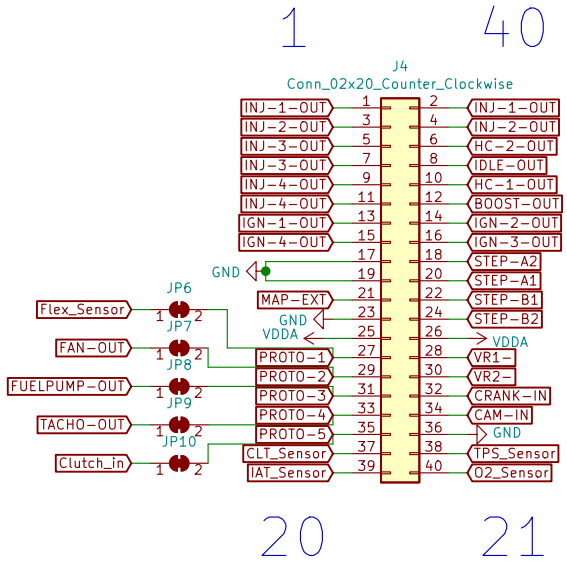
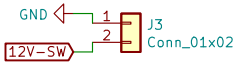
KiCad E.D.A. kicad (5.1.9-0-10_14)		Id: 4/7





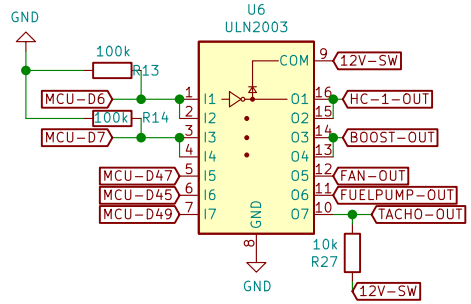
Speeduino

Sheet: /Connector/
File: connector.sch

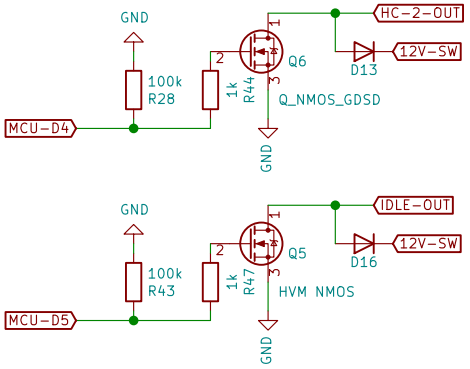
Title: 0.4

Size: A4	Date: 2021-03-27	**Rev: 4d**
KiCad E.D.A. kicad (5.1.9-0-10_14)		Id: 5/7

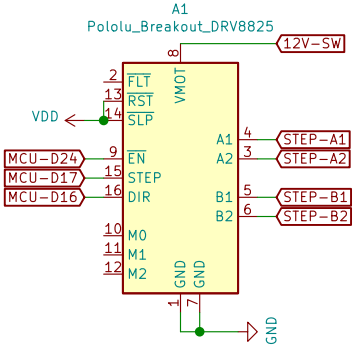
PWM Idle and Boost outputs
Spare High Current outputs



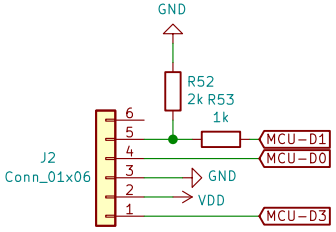
High Current Spare Outputs



Stepper Idle



HC-05 Bluetooth Connector



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Sheet: /Outputs/
File: outputs.sch

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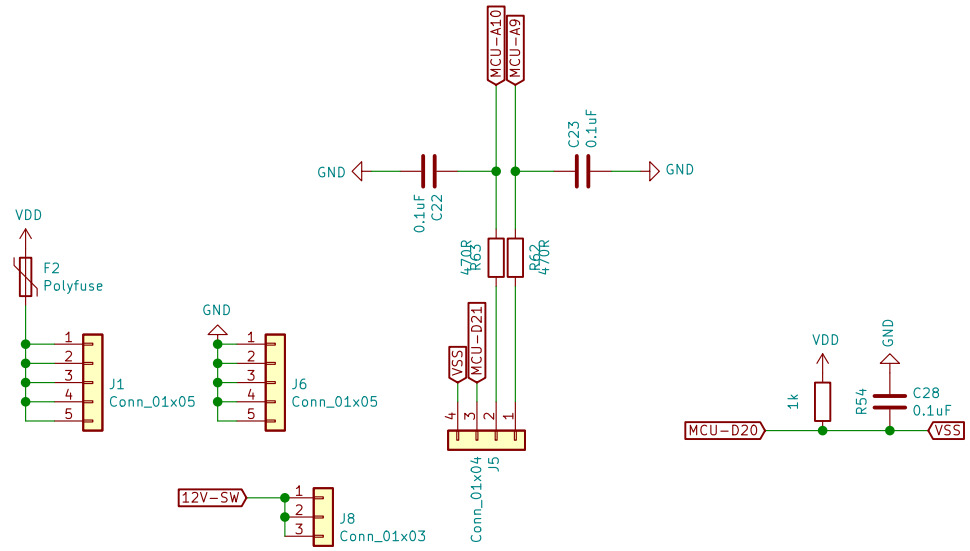
Size: A4	Date: 2021-03-27	**Rev: 4d**
KiCad E.D.A. kicad (5.1.9-0-10_14)		Id: 6/7



Speeduino		
Sheet: /Proto Area/		
File: proto.sch		
Title: 0.4		
Size: A4	Date: 2021-03-27	**Rev: 4d**
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