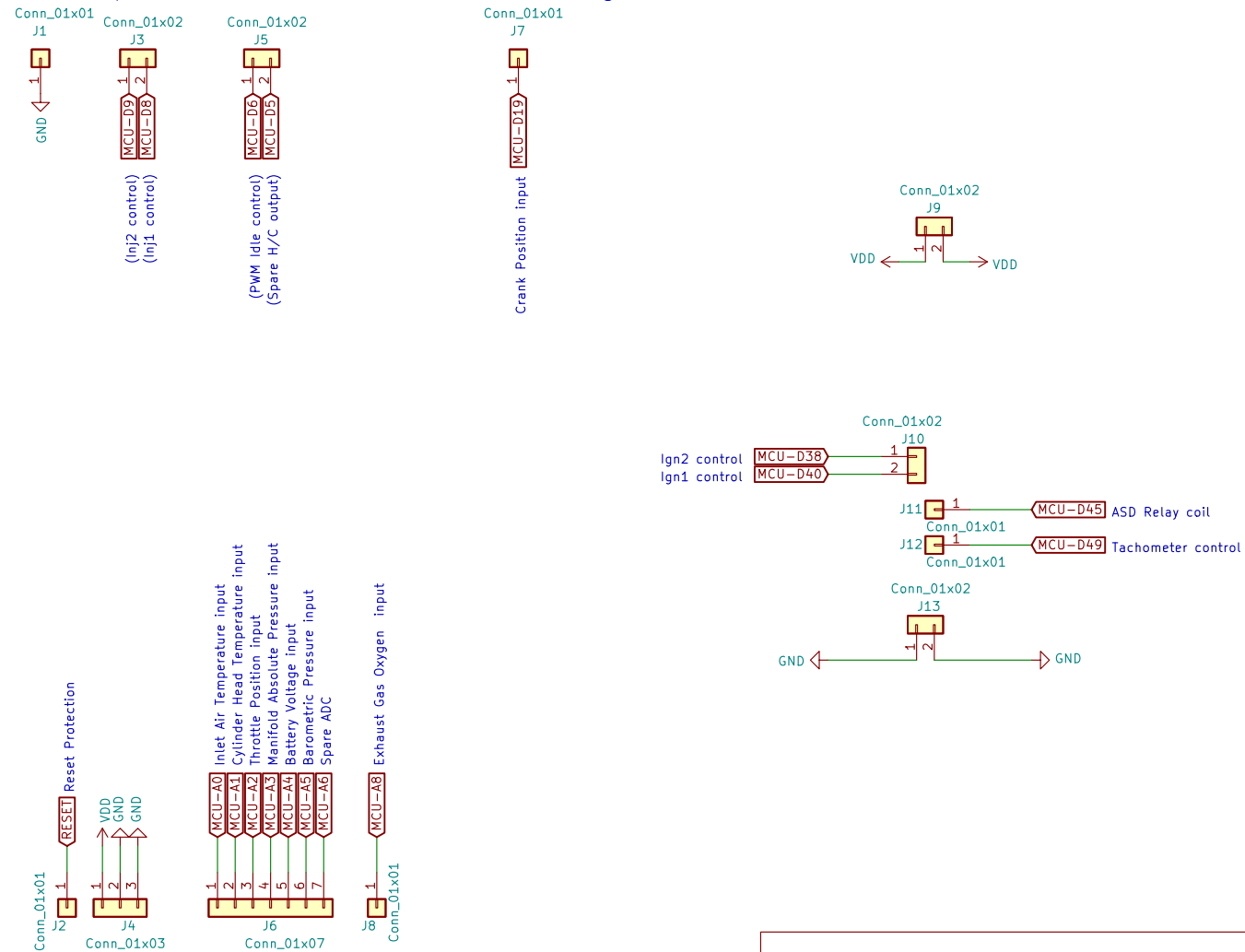


## Header pin connections to Arduino Mega 2560 header sockets



Sheet: Inputs

Sheet: Outputs

Sheet: Connectors

Sheet: Power

File: file638ED684.sch File: file638ED82C.sch File: file6393DA41.sch File: file6392B33F.sch

**Robert Hiebert**

Sheet: /

File: Buggy SPD.sch

**Title: Buggy SPD**

Size: A4 Date: 2022-12-05

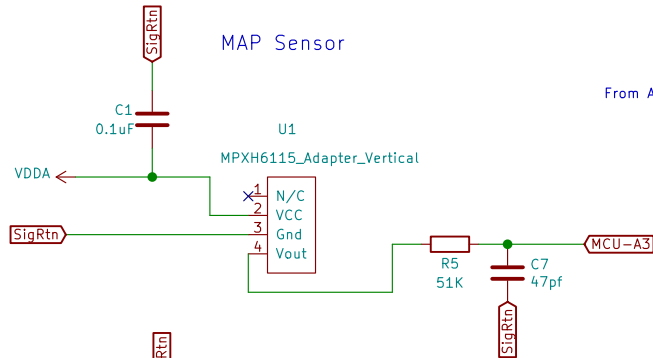
KiCad E.D.A. kicad (5.1.6)-1

**Rev:**

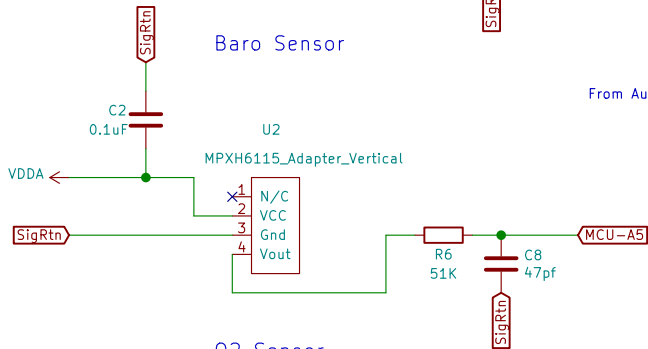
Id: 1/5

Note! MAP and Baro sensors need a separate adapter board that uses a 4 pin in line footprint

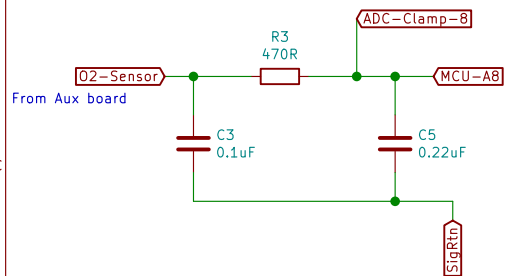
### MAP Sensor



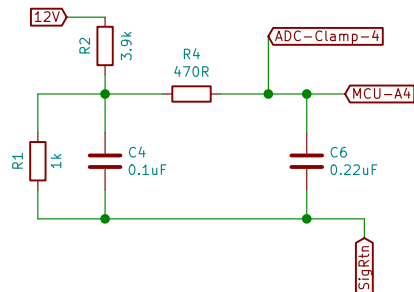
### Baro Sensor



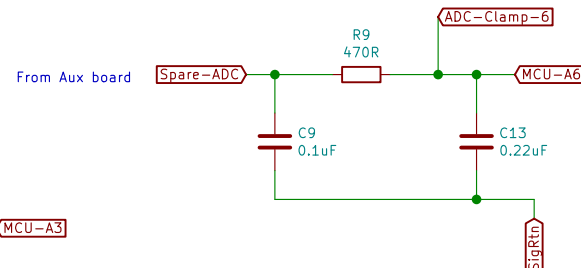
### O2 Sensor



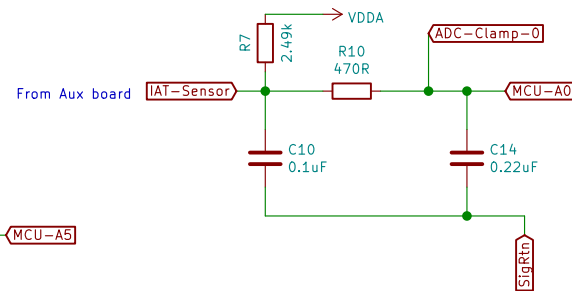
### Battery reference voltage



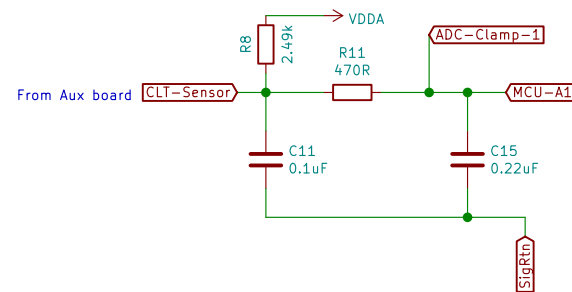
### Spare ADC



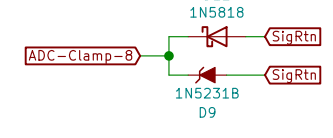
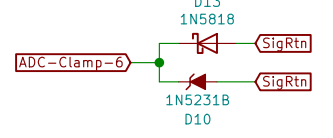
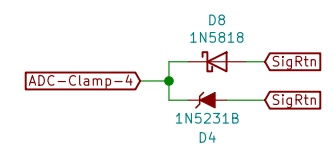
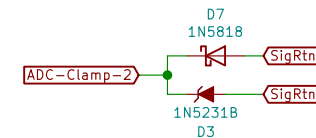
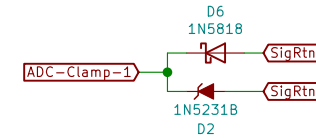
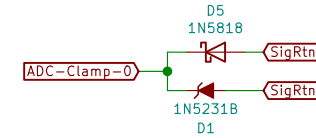
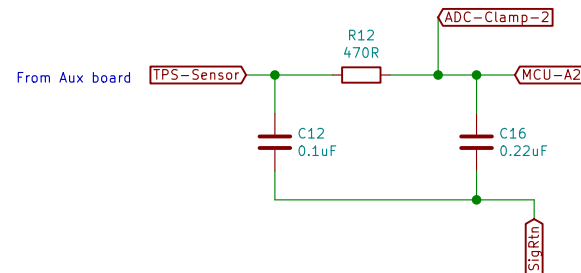
### Inlet Air Temperature Sensor



### Coolant Temperature Sensor

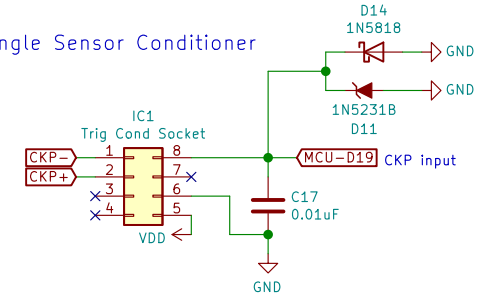


### Throttle Position Sensor



DIP8 sized socket pair will accept conditioner modules from WTMotronics, JB Perf V2.1, and possibly others that use the MAX9926 chip.

### Crank Angle Sensor Conditioner



Sheet: /Inputs/  
File: file638ED684.sch

### Title:

Size: A4

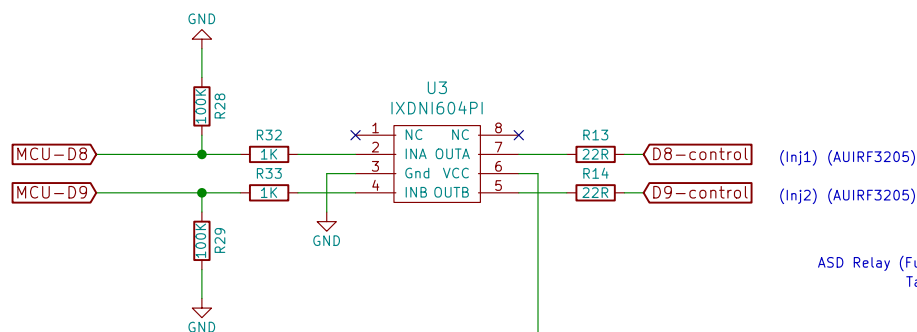
Date:

KiCad E.D.A. kicad (5.1.6)-1

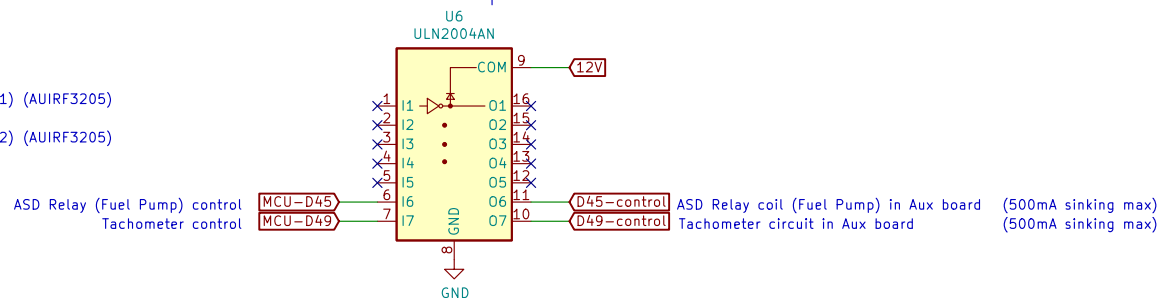
Rev:

Id: 2/5

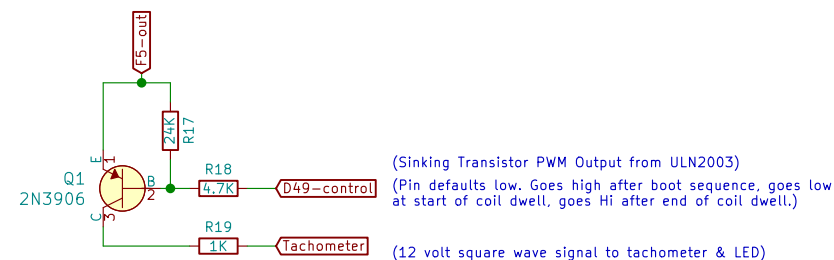
## High current output drivers control



## Low current outputs and control



## Tachometer driver circuit



MCU-D8 (Inj1) Pin default Low, Hi to energise injector, Lo to de-energise injector.

MCU-D9 (Inj2) Pin default Low, Hi to energise injector, Lo to de-energise injector.

MCU-D38 (Ign1) Pin default Low, Hi to energise coil, Lo to de-energise coil.

MCU-D40 (Ign2) Pin default Low, Hi to energise coil, Lo to de-energise coil.

MCU-D45 (ASD Relay) Pin default Low, Hi to energise relay, Lo to de-energise relay.

MCU-D49 (Tachometer) Pin default Low, Goes Hi after boot sequence.

Goes Lo at start of dwell, goes Hi at end of dwell.

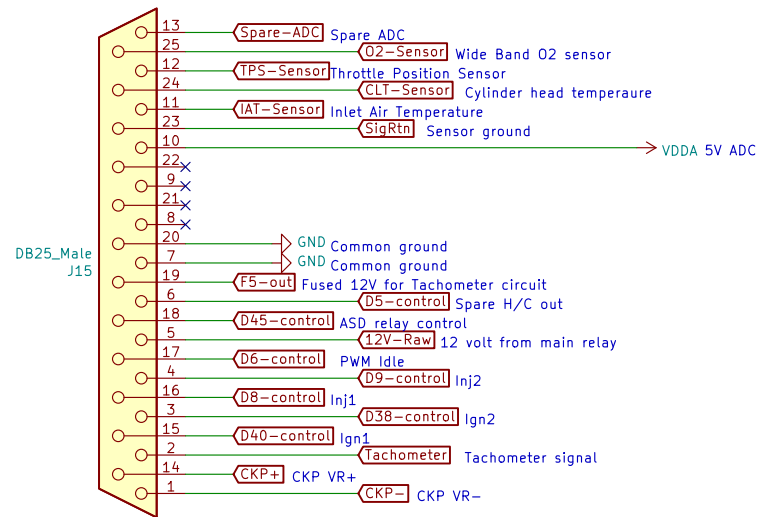
Sheet: /Outputs/  
File: file638ED82C.sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (5.1.6)-1

Date:  
Rev: Id: 3/5

## DB25 connections to Buggy SPD Aux board



Sheet: /Connectors/  
File: file6393DA41.sch

**Title:**

Size: A4

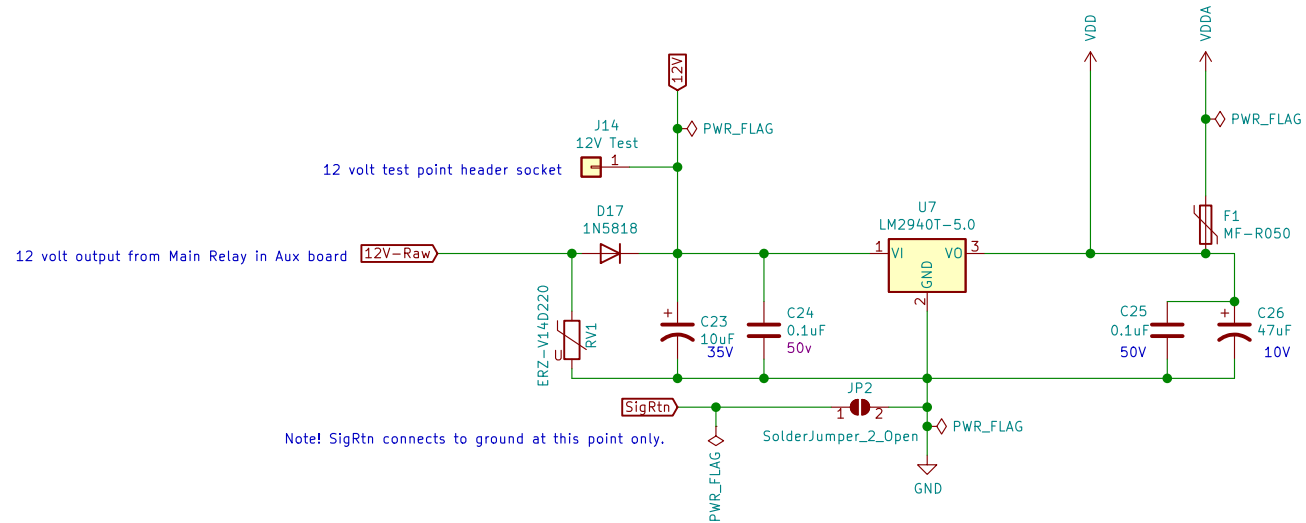
Date:

KiCad E.D.A. kicad (5.1.6)-1

**Rev:**

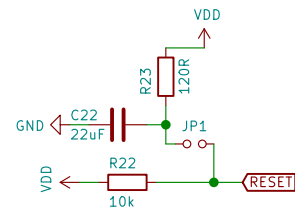
Id: 4/5

## 5 Volt Power Regulator



## Reset Protection

Refer AVR040 Application Note



Sheet: /Power/  
File: file6392B33F.sch

**Title:**

Size: A4	Date:
KiCad E.D.A. kicad (5.1.6)-1	

Rev:  
Id: 5/5