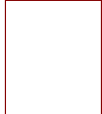
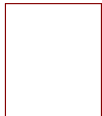


#### Power Regulator



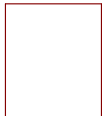
File: Power regulator.kicad\_sch

#### Drivers



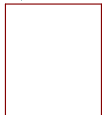
File: drivers.kicad\_sch

#### Connectors



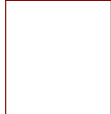
File: Connectors.kicad\_sch

#### Inputs



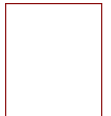
File: inputs.kicad\_sch

#### Comms



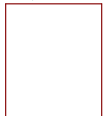
File: comms.kicad\_sch

#### Crank and Cam



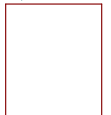
File: crank-cam.kicad\_sch

#### Outputs



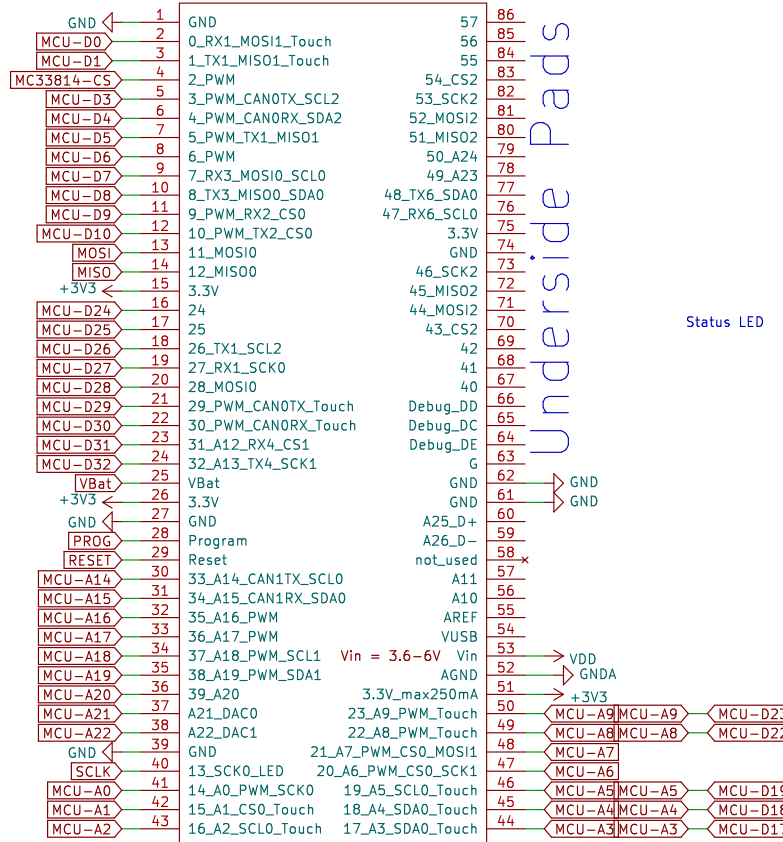
File: outputs.kicad\_sch

#### Inputs 2



File: inputs2.kicad\_sch

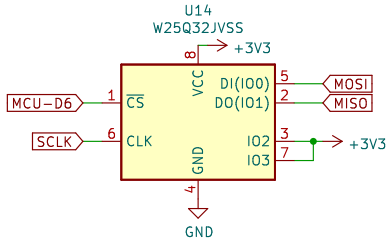
U1  
Teensy3.5  
Shields:Teensy35\_36-main-pins-only  
<https://www.pjrc.com/teensy/pinout.html>



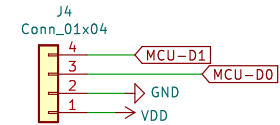
Underside Pads

Status LED

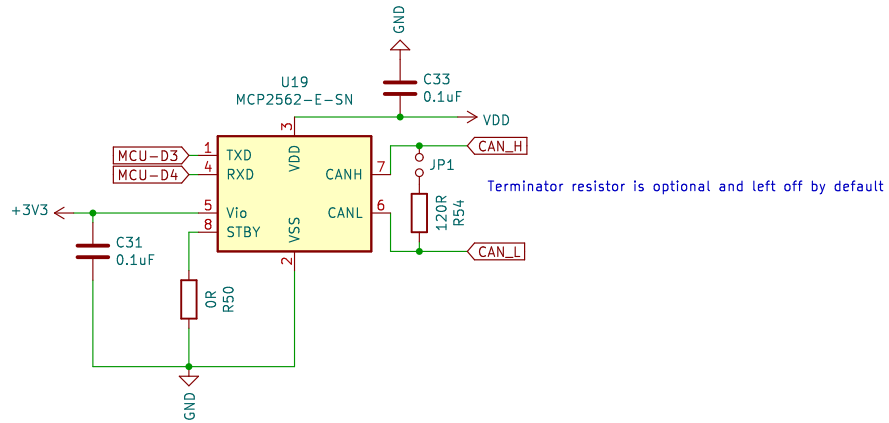
## Flash Storage



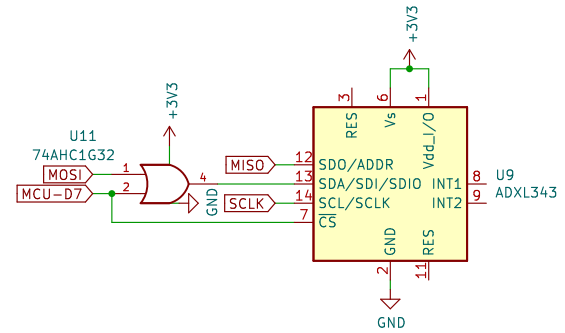
## HC-05 Bluetooth Connector

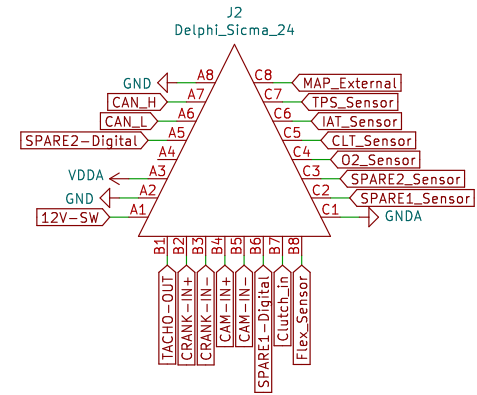
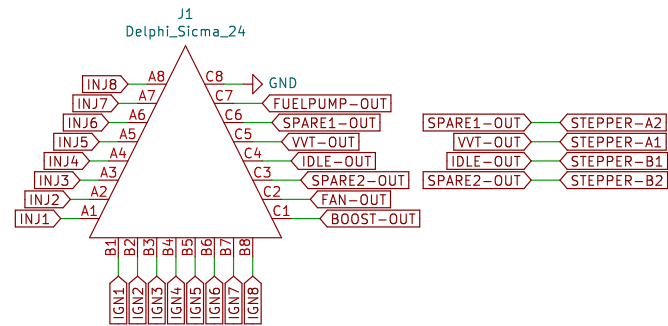


## CAN Transceiver



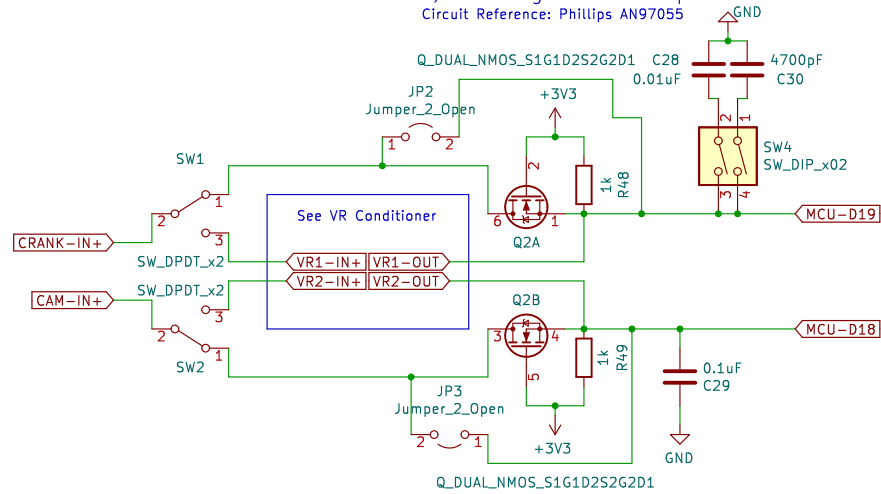
## Accelerometer





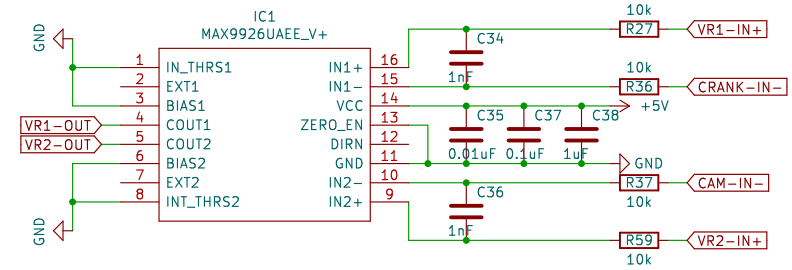
## Crank/Cam Angle Sensor Inputs

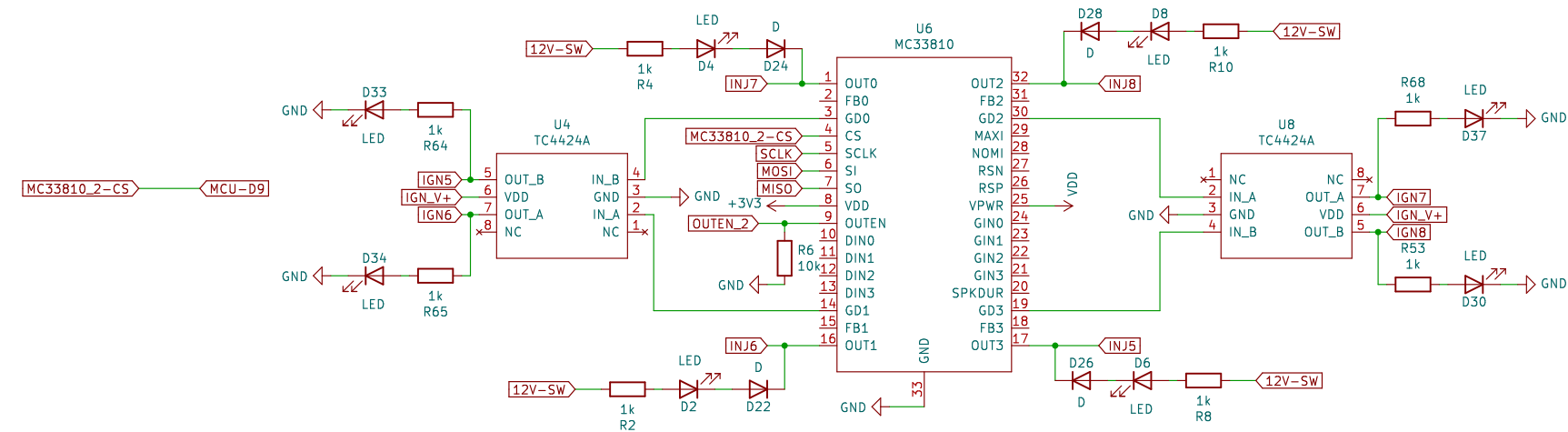
Circuit Reference: Phillips AN97055



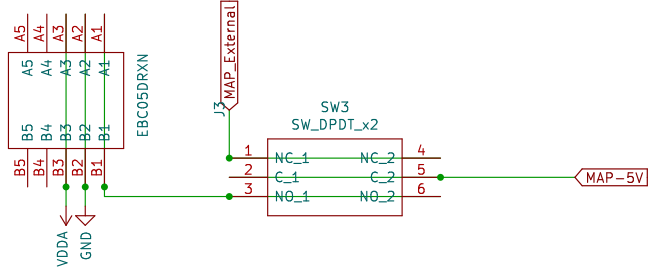
## VR Conditioner Circuit

Running in A2 mode

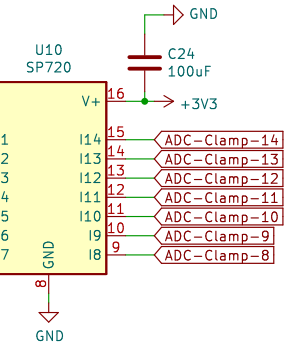
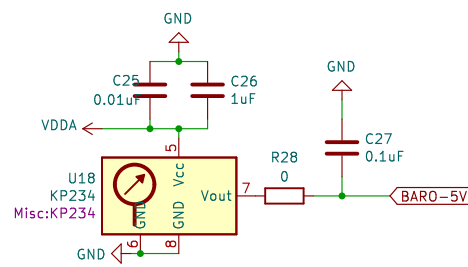




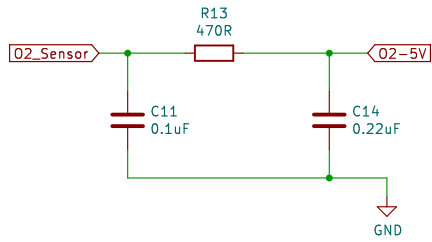
MAP Sensor



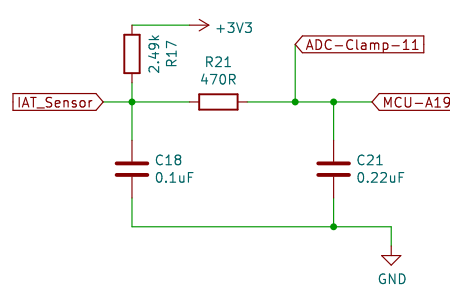
Baro Sensor



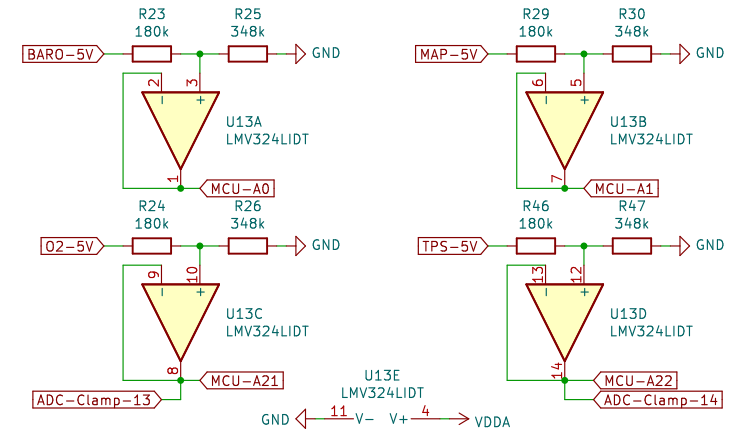
O2 Sensor



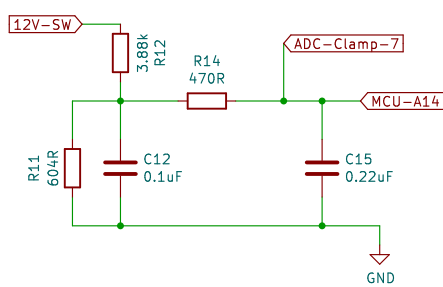
Inlet Air Temperature Sensor



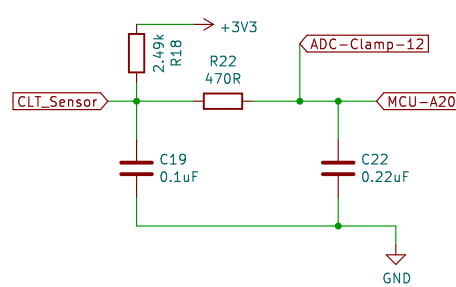
5v to 3.3v Opamp



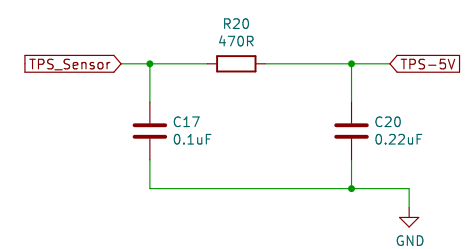
Battery reference voltage



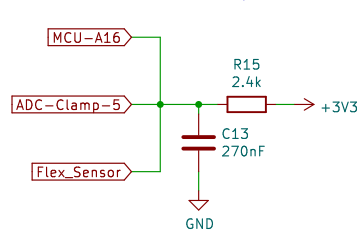
Coolant Temperature Sensor



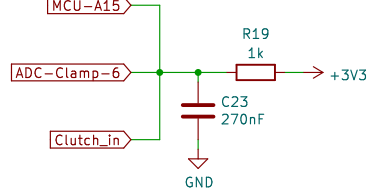
Throttle Position Sensor



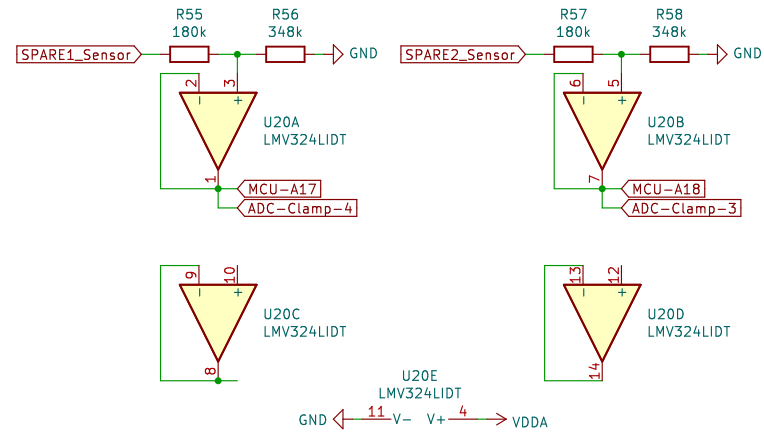
Flex Sensor Input



Clutch Input

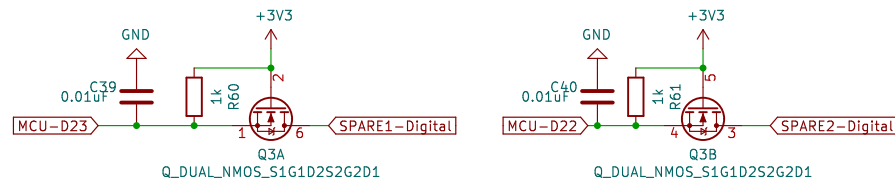


### 5v to 3.3v Opamp

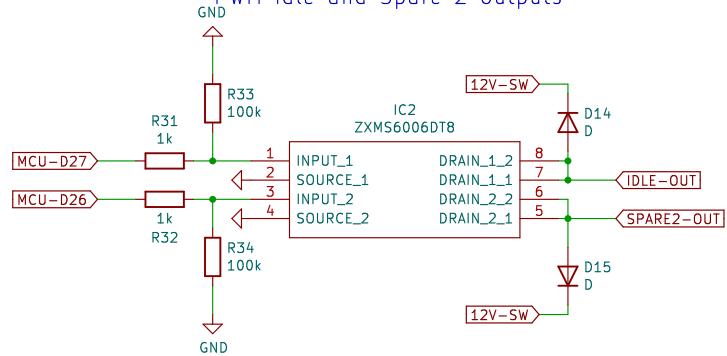


Second O2 sensor should be on Spare 2 if in use

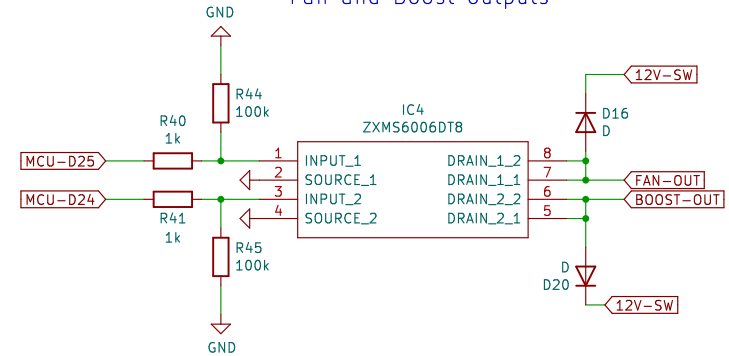
### Spare digital inputs



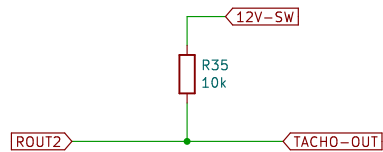
PWM Idle and Spare 2 outputs



Fan and Boost outputs



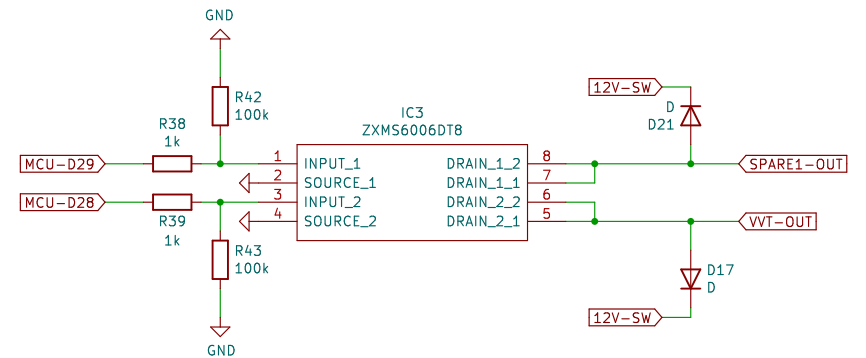
Tacho output



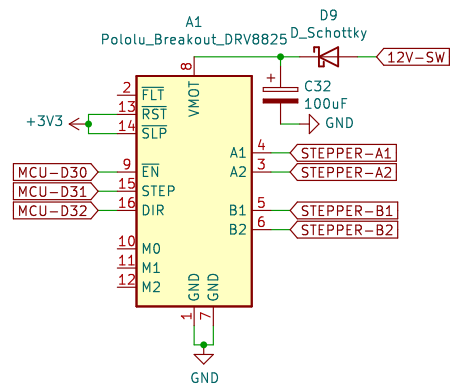
Fuel pump relay



VVT and Spare 1



Stepper Driver (DRV8825)





JP4  
Jumper\_2\_Open  
VDD ← 1 — 2 → VDDA

