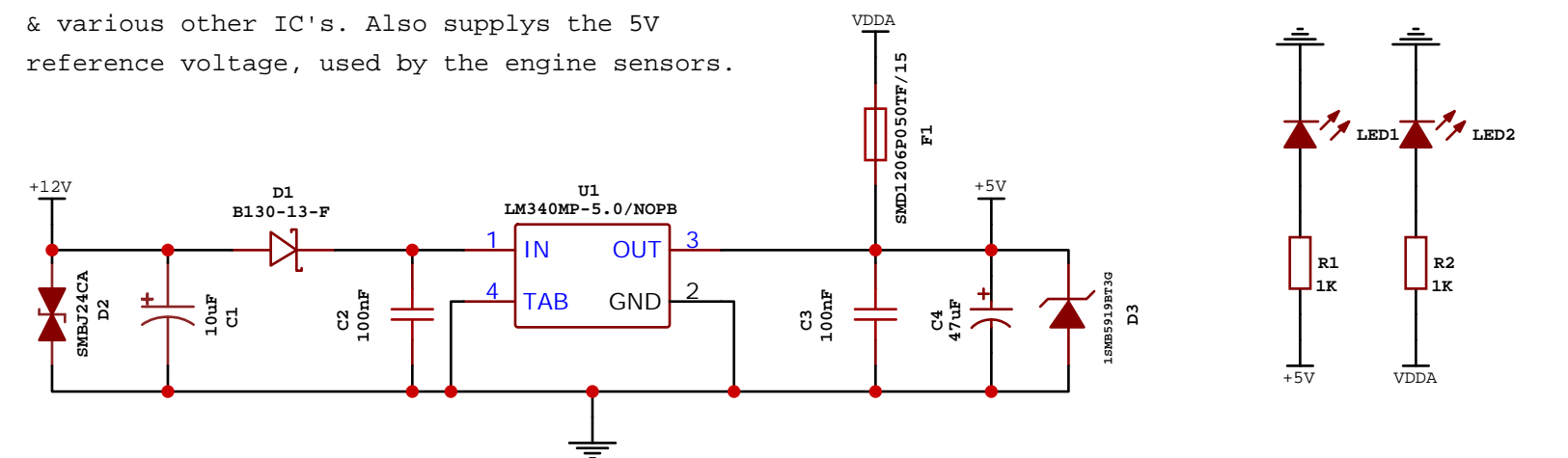
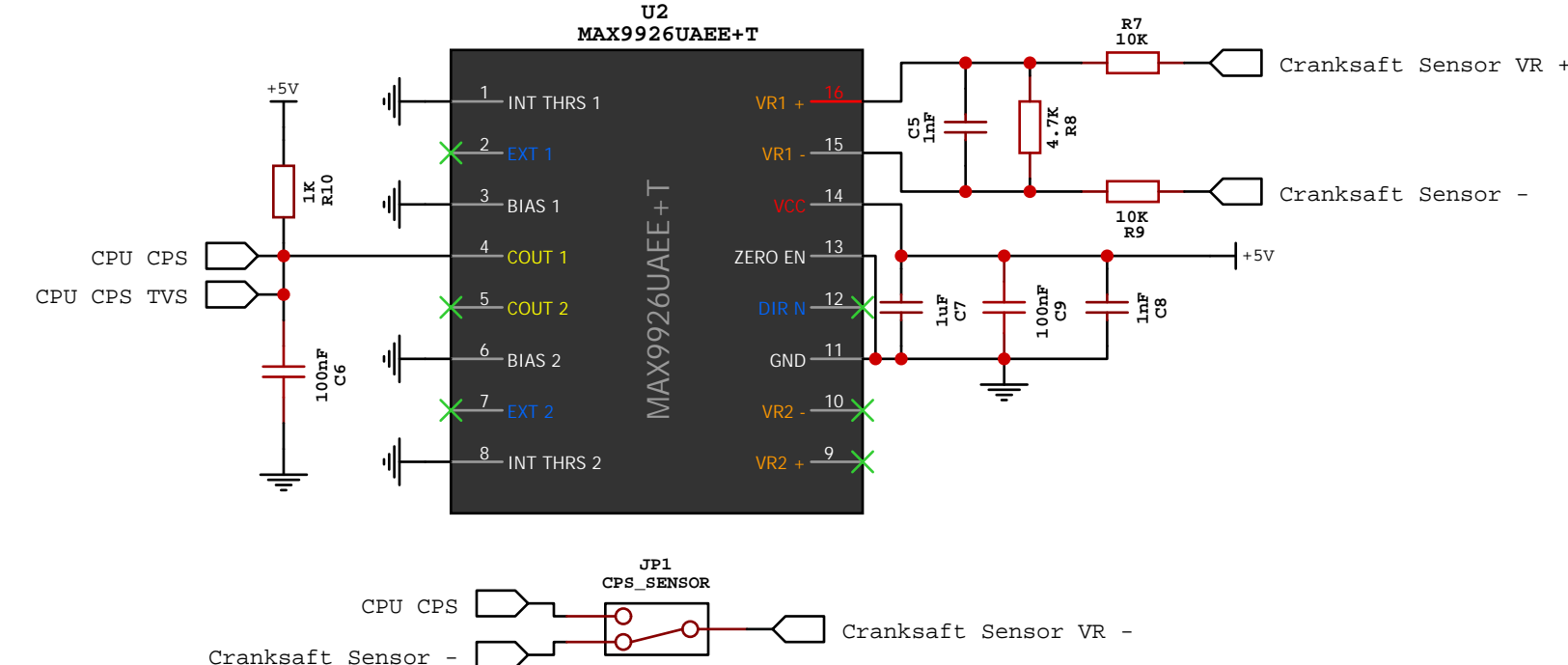


Steps down the battery voltage to a regulated 5V DC voltage, which provides power to the CPU & various other IC's. Also supplies the 5V reference voltage, used by the engine sensors.

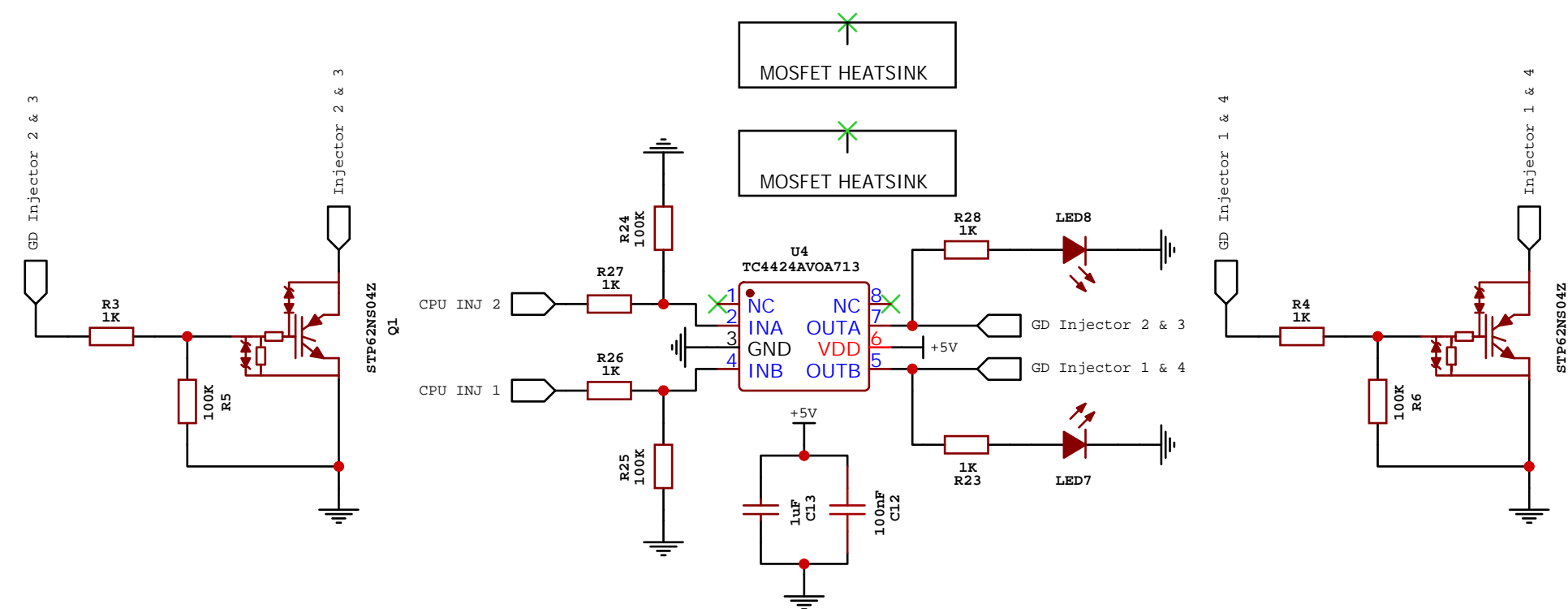


Circuit using the MAX9926 IC, which conditions a VR Reluctor type sensor. The reductor type sensor is a two wire sensor, that outputs an AC voltage.

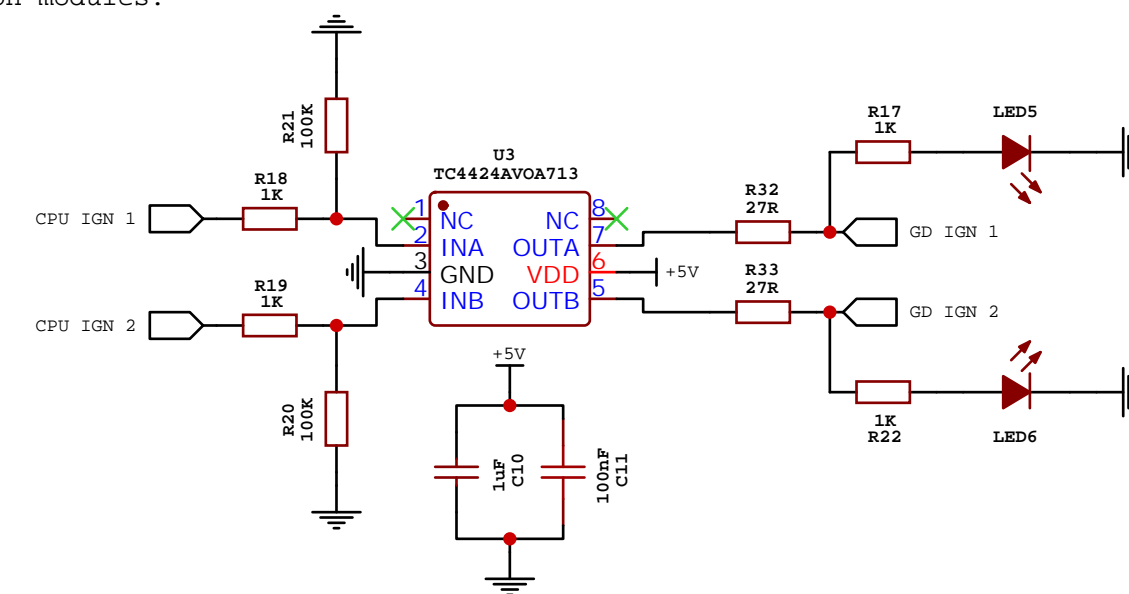
Hall / Optical signal is not routed through the MAX9926 IC.
These output direct 0v - 5v. Directly compatible.



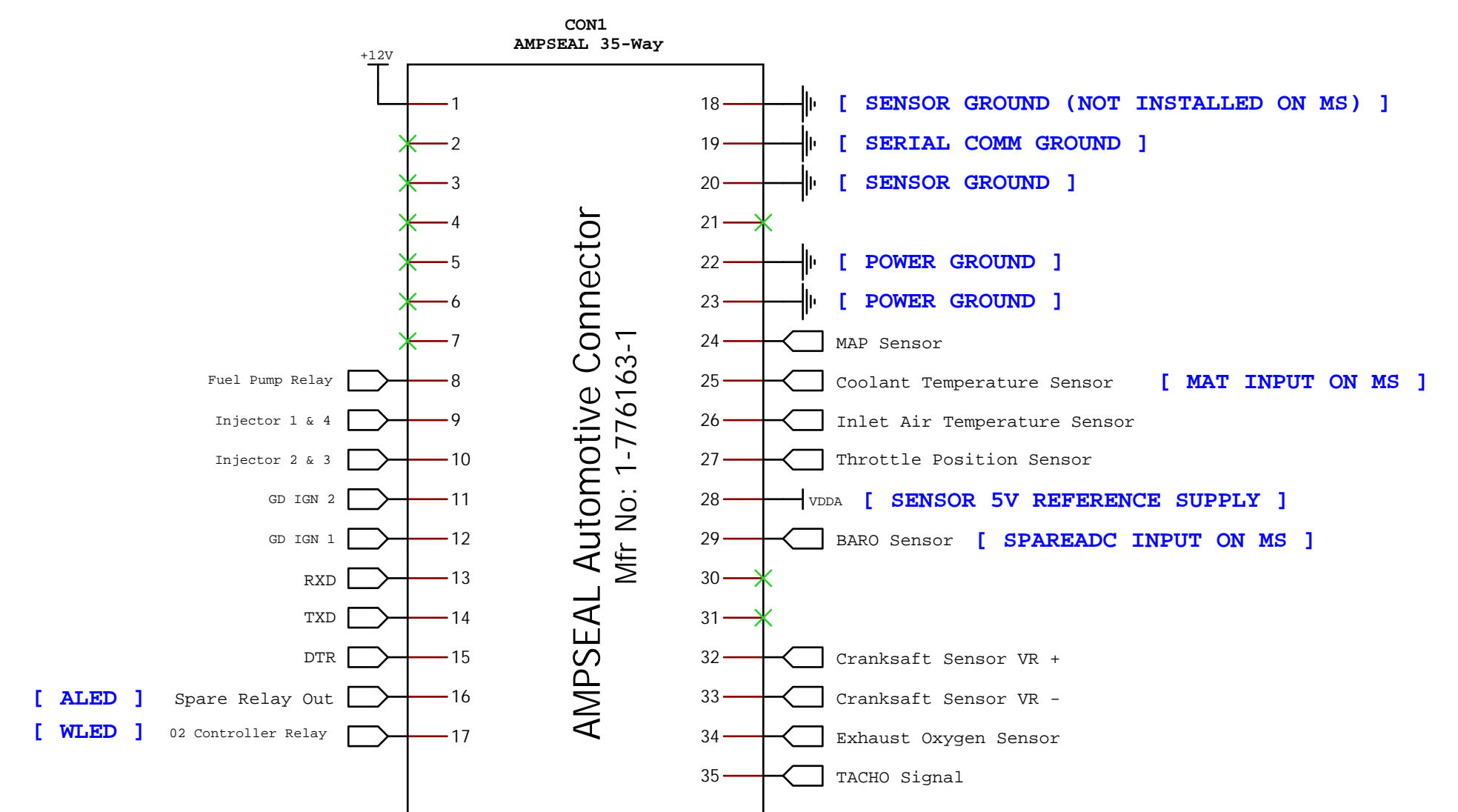
High Impedance Injectors (> 10 Ohm), directly supported.
2 Power Mosfets [STP62NS04Z], for dual channel Injection, support pairing
to run 4 cylinder wasted / batch injection.
Mosfets charged via TC4424 Mosfet Driver @ 5v.



Mosfets charged via TC4424 Mosfet Driver @ 5v.
Control for logic level ignition modules.



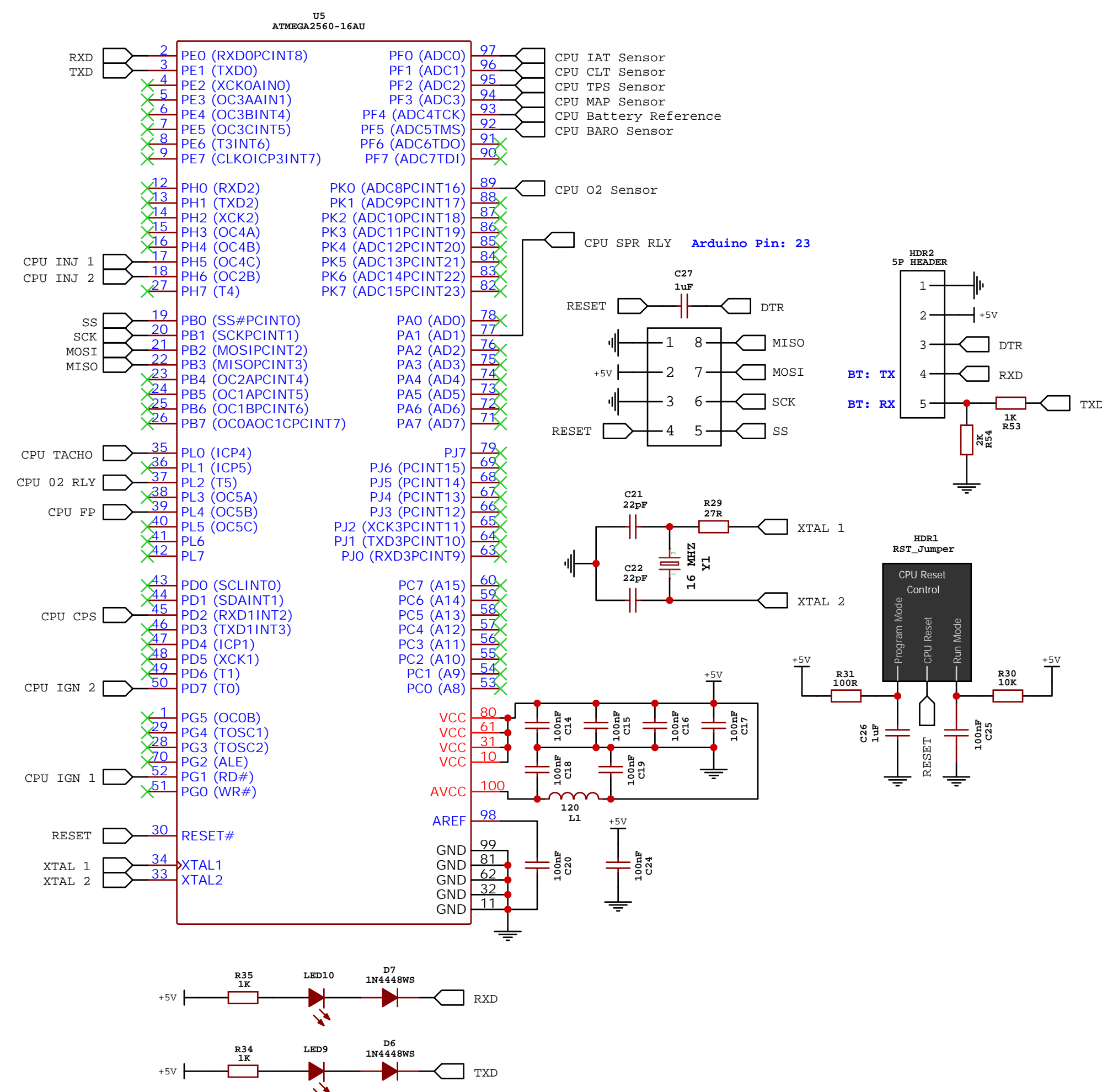
Follows the same Pinout as the Microsqirt



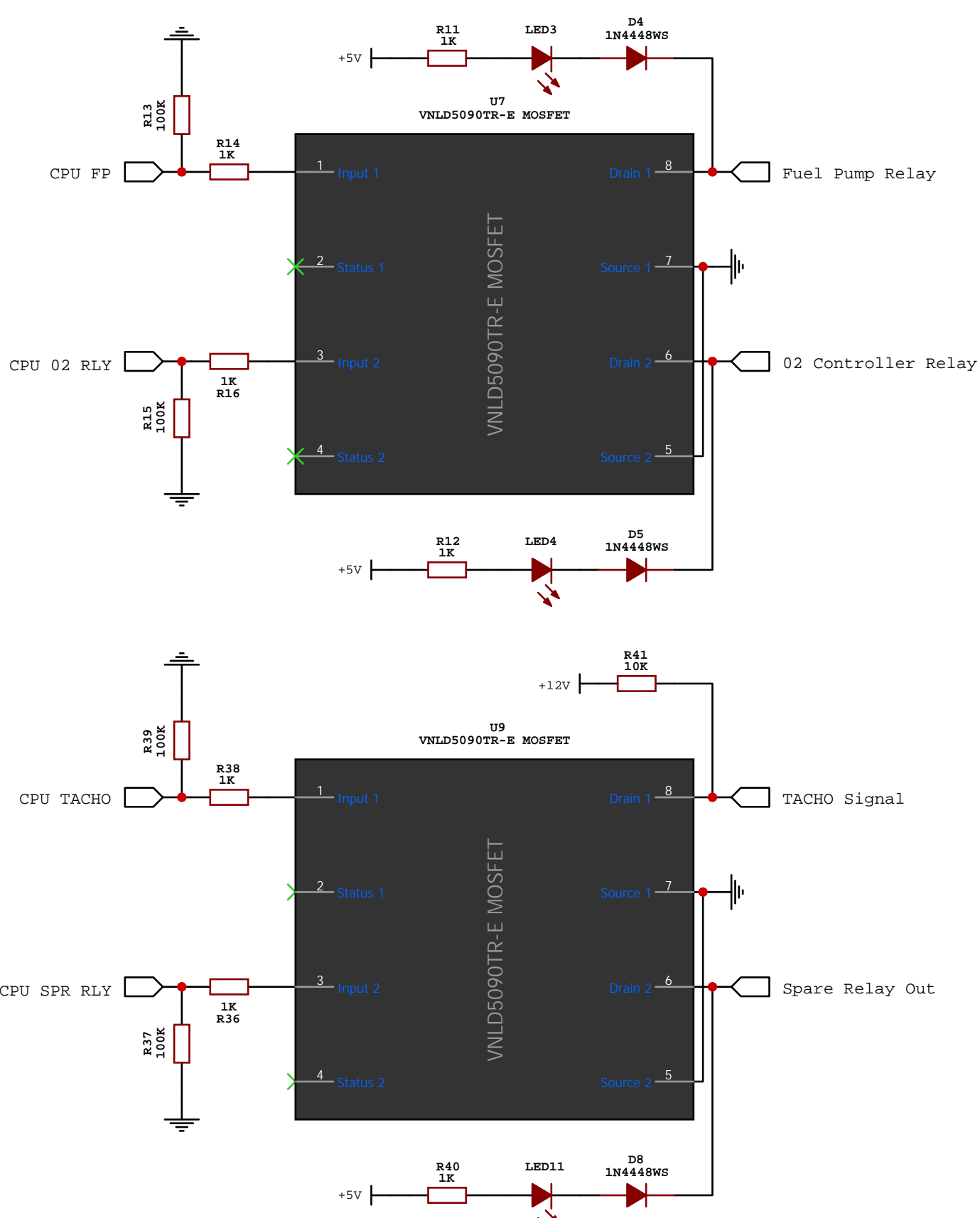
The diagrams show the following components and connections:

- Inlet Air Temperature Sensor:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R46) and a 10nF capacitor (C30). A 20k pull-down resistor (C31) is connected to ground. The sensor output is connected to CPU IAT TVS and CPU IAT Sensor.
- Coolant Temperature Sensor:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R47) and a 10nF capacitor (C33). A 20k pull-down resistor (C32) is connected to ground. The sensor output is connected to CPU CLT TVS and CPU CLT Sensor.
- Throttle Position Sensor:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R49) and a 10nF capacitor (C35). A 20k pull-down resistor (C34) is connected to ground. The sensor output is connected to CPU TPS TVS and CPU TPS Sensor.
- Exhaust Oxygen Sensor:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R50) and a 10nF capacitor (C38). A 20k pull-down resistor (C37) is connected to ground. The sensor output is connected to CPU O2 TVS and CPU O2 Sensor.
- MAP Sensor:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R51) and a 10nF capacitor (C39). A 20k pull-down resistor (C38) is connected to ground. The sensor output is connected to CPU MAP TVS and CPU MAP Sensor.
- CPU MAP TVS:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R52) and a 10nF capacitor (C39). A 20k pull-down resistor (C38) is connected to ground. The sensor output is connected to CPU MAP TVS and CPU MAP Sensor.
- CPU IAT TVS:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R46) and a 10nF capacitor (C30). A 20k pull-down resistor (C31) is connected to ground. The sensor output is connected to CPU IAT TVS and CPU IAT Sensor.
- CPU CLT TVS:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R47) and a 10nF capacitor (C33). A 20k pull-down resistor (C32) is connected to ground. The sensor output is connected to CPU CLT TVS and CPU CLT Sensor.
- CPU TPS TVS:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R49) and a 10nF capacitor (C35). A 20k pull-down resistor (C34) is connected to ground. The sensor output is connected to CPU TPS TVS and CPU TPS Sensor.
- CPU O2 TVS:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R50) and a 10nF capacitor (C38). A 20k pull-down resistor (C37) is connected to ground. The sensor output is connected to CPU O2 TVS and CPU O2 Sensor.
- CPU BARO TVS:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R52) and a 10nF capacitor (C39). A 20k pull-down resistor (C38) is connected to ground. The sensor output is connected to CPU BARO TVS and CPU BARO Sensor.
- CPU BARO Sensor:** Connected to VDDA (2.4V 0.1A) through a 2.4k resistor (R52) and a 10nF capacitor (C39). A 20k pull-down resistor (C38) is connected to ground. The sensor output is connected to CPU BARO TVS and CPU BARO Sensor.
- CPU BR TVS:** Connected to +12V through a 3.9k resistor (R42) and a 10nF capacitor (C41). A 20k pull-down resistor (C39) is connected to ground. The sensor output is connected to CPU BR TVS and CPU Battery Reference.
- CPU Battery Reference:** Connected to +12V through a 3.9k resistor (R42) and a 10nF capacitor (C41). A 20k pull-down resistor (C39) is connected to ground. The sensor output is connected to CPU BR TVS and CPU Battery Reference.

PCB uses an ATmega2560-AU CPU.



Relay Outputs switched via VNLD5090TR-E Mosfet, with status LEDs.



TWS DIODE ARRAY SP720

Pin	Label	Notes
1	INPUT 1	
2	INPUT 2	
3	INPUT 3	
4	INPUT 4	
5	INPUT 5	
6	INPUT 6	
7	INPUT 7	
8	INPUT 8	GND
9	INPUT 9	
10	INPUT 10	
11	INPUT 11	
12	INPUT 12	
13	INPUT 13	
14	INPUT 14	CPU CPS TVS