

MCU

File: mcu.kicad_sch

Sensors

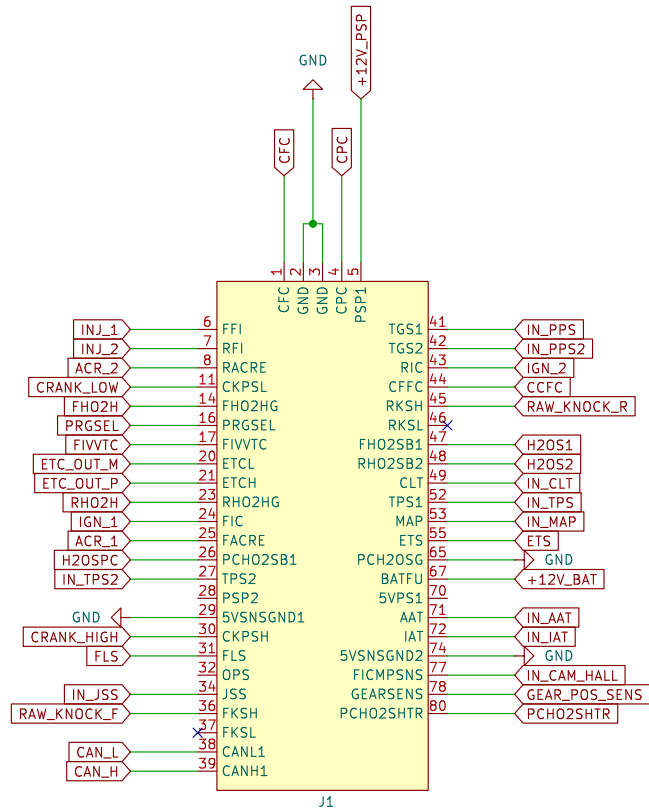
File: sensors.kicad_sch

Bluetooth

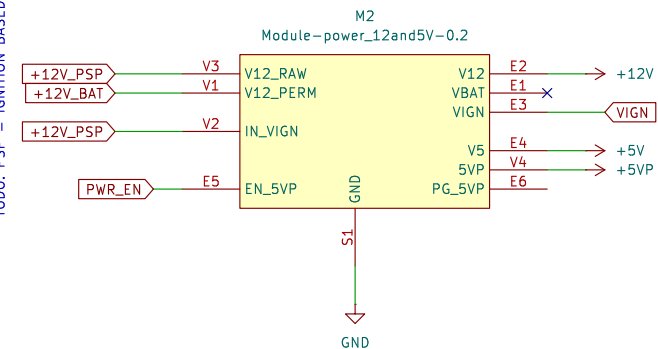
File: bluetooth.kicad_sch

Outputs

File: outputs.kicad_sch

TODO:**Do we need to connect PSP2? Like connect it directly to PSP1 or sth? Measure at OEM ECU.****DONE: GEARSSENS analyze the signal -> Kind of analog?****DONE: AM POSITION = FICMPSNS Hall effect or what is that?****Knock Sensor LOW signals not needed?**

TODO: PSP = IGNITION BASED?



GND ← TP1 TestPoint_Probe
 +3V3 ← TP2 TestPoint_Probe
 +5V ← TP3 TestPoint_Probe
 +12V ← TP4 TestPoint_Probe
 +3V3SW ← TP5 TestPoint_Probe

FID1 Fiducial
 FID2 Fiducial
 FID3 Fiducial
 FID4 Fiducial

Hellen-Bremen

Sheet: /
 File: hellenbremen.kicad_sch

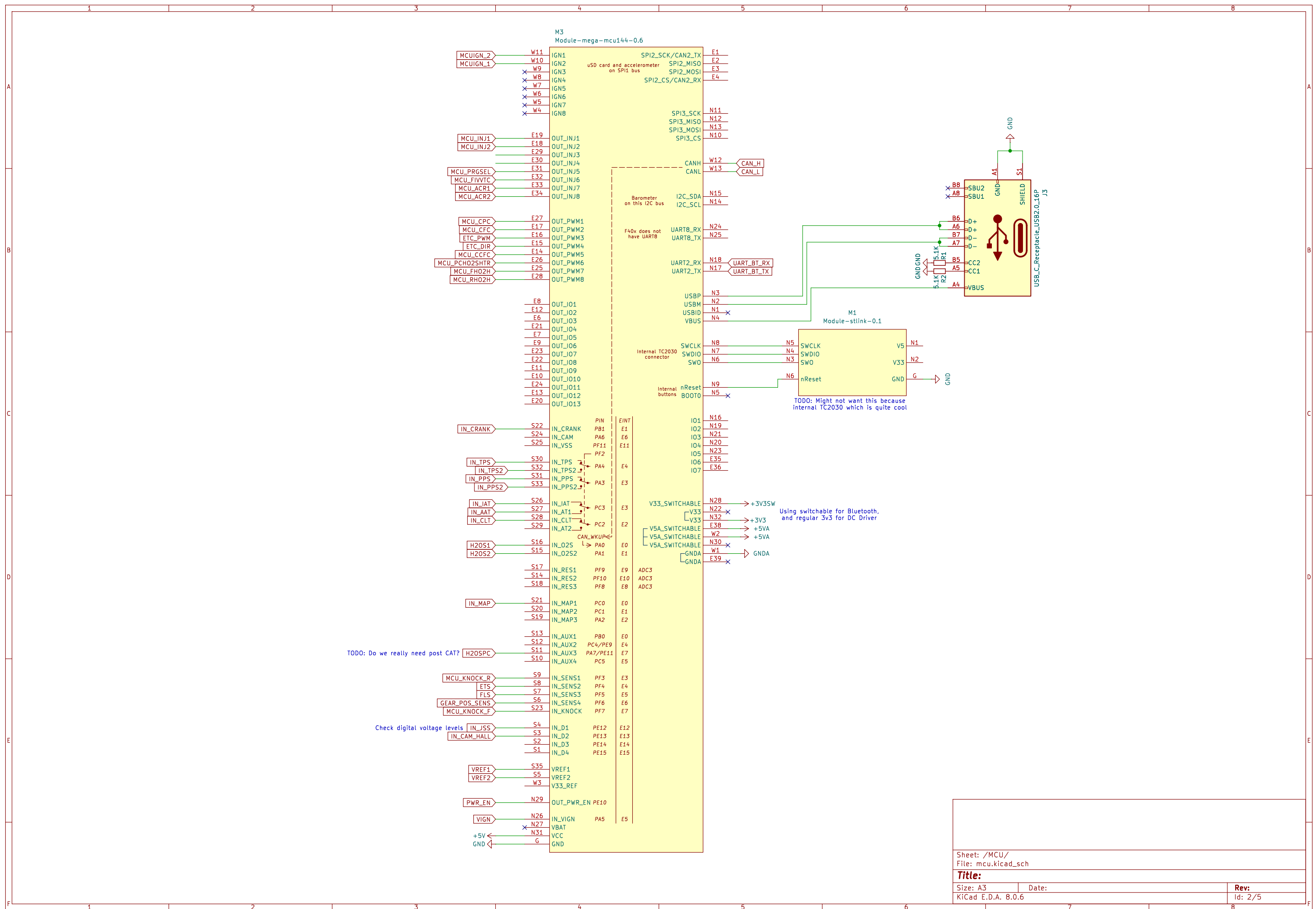
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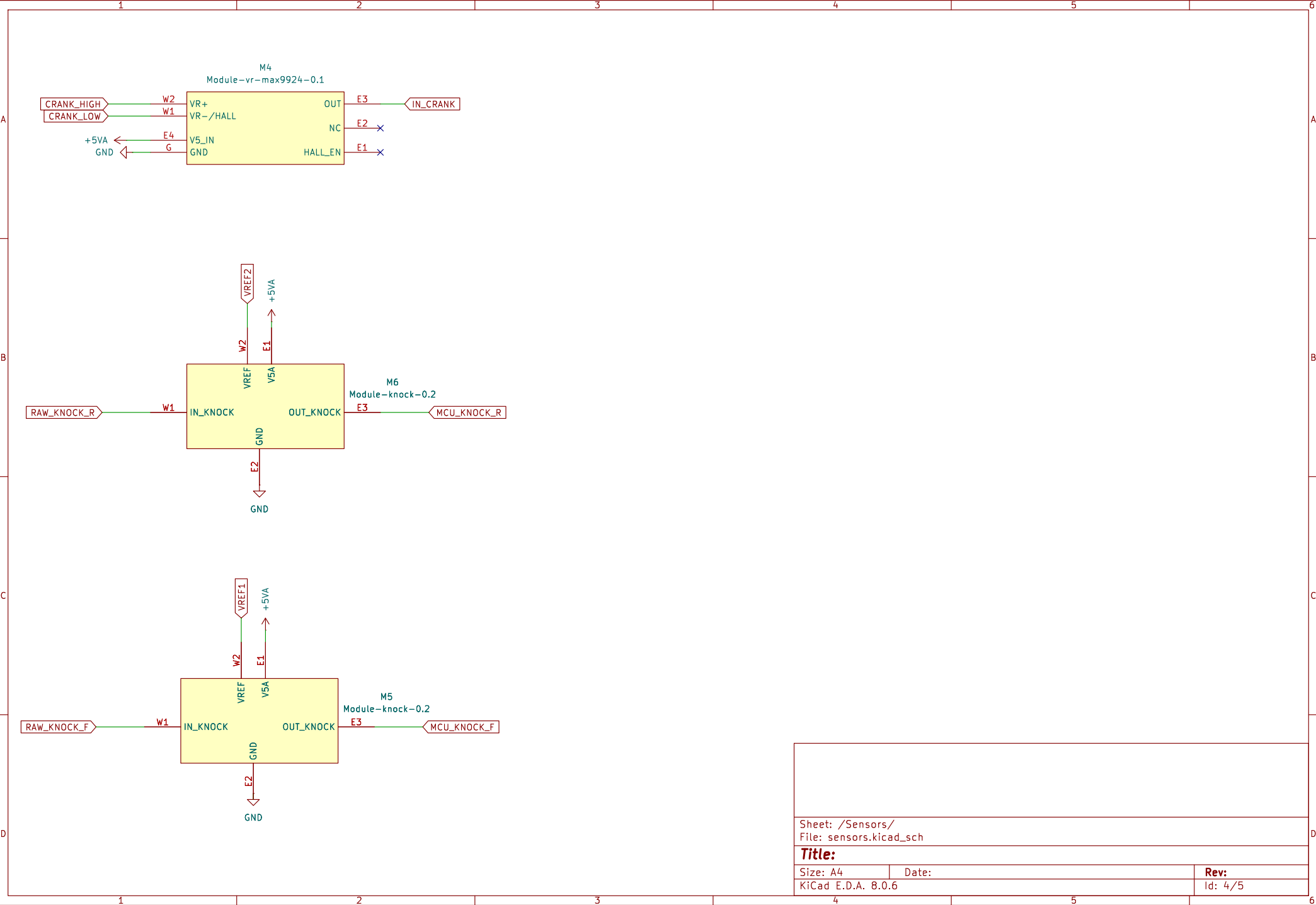
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Date:

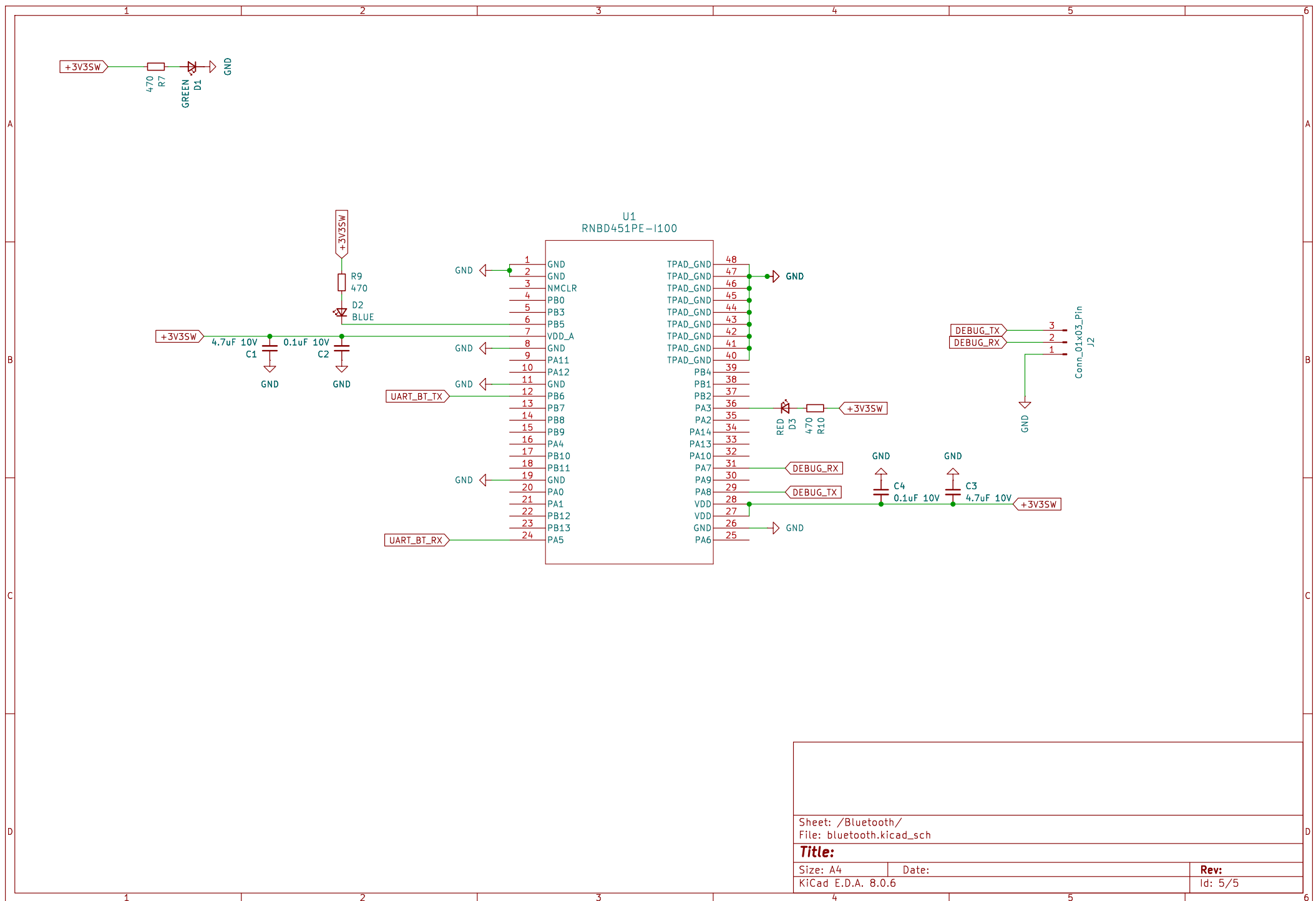
Rev: A

Id: 1/5

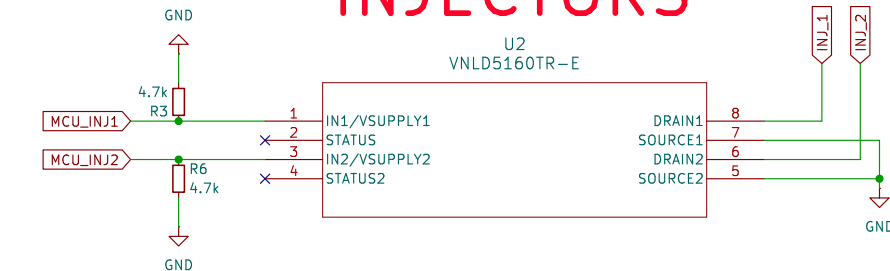




Sheet: /Sensors/ File: sensors.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.6	Id: 4/5	

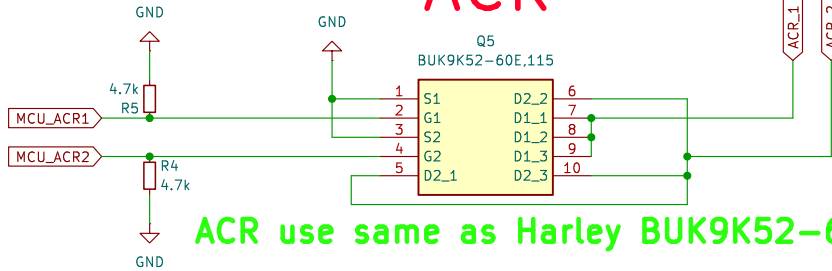


INJECTORS



INJECTORS MEASURED TO TAKE MAX 1A EACH WHEN OPEN

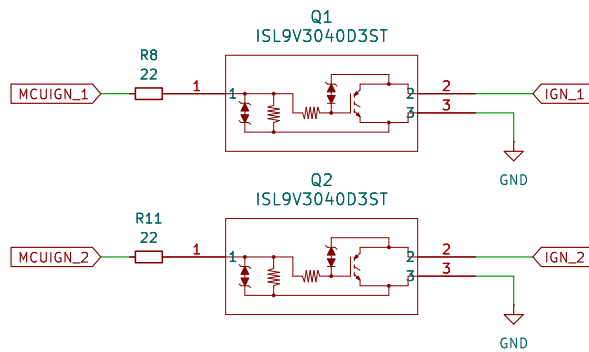
ACR



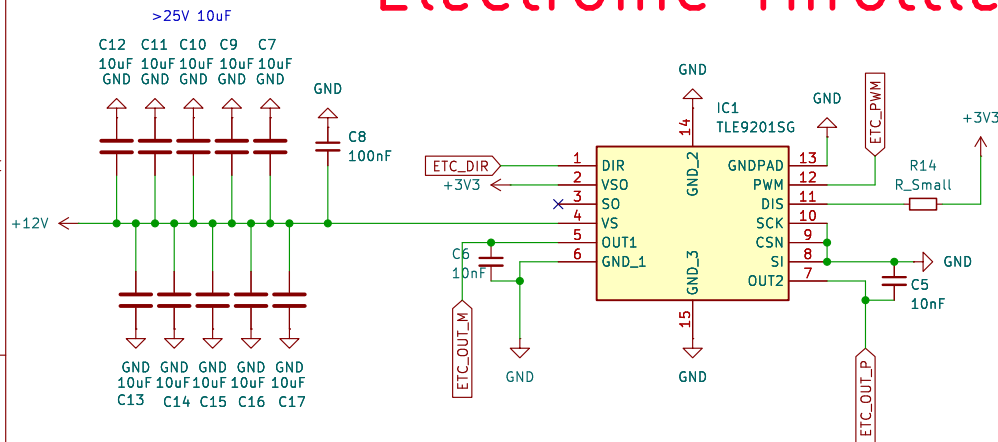
ACR use same as Harley BUK9K52-60E

Harley Uses:
<https://www.mouser.de/ProductDetail/onsemi/FGB3040G2-F085C?qs=2WXlatMagcHzMRj1hscbYQ%3D%3D>

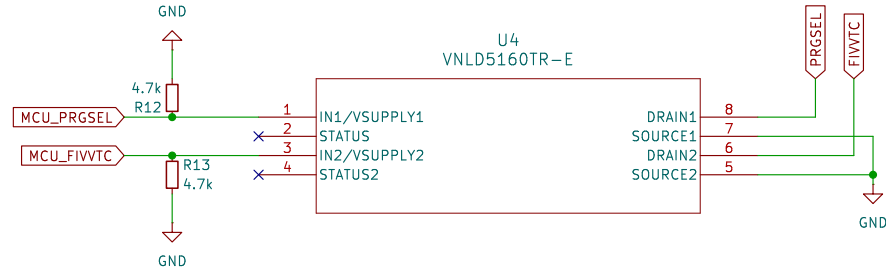
IGNITION



Electronic Throttle



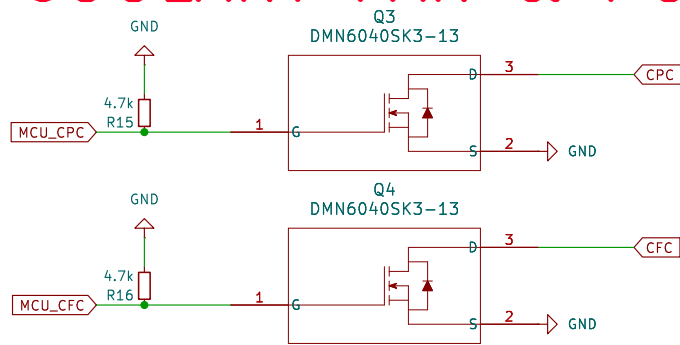
PURGE & VVT SOLENOIDS



COOLANT FAN PULLS AROUND 4A WHEN CONSTANT 100%,
INITIALLY PULLING UP TO 8A FOR GETTING SPINNING
HARLEY USES: HUF76429D3

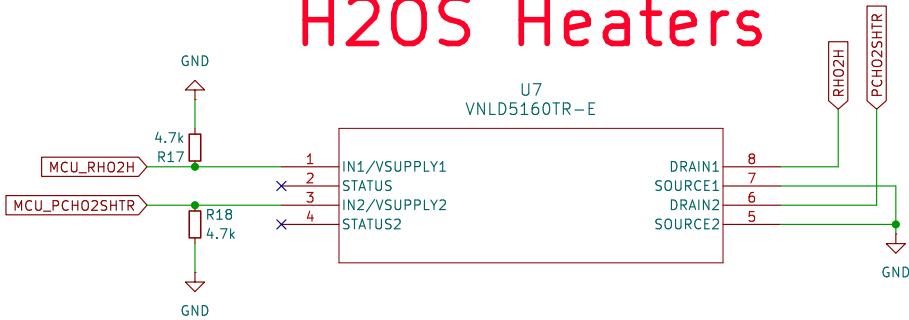
POSSIBLE: <https://www.digikey.de/de/products/detail/onsemi/HUF76629D3ST/4553106>
AND: <https://www.digikey.de/de/products/detail/diodes-incorporated/DMN6040SK3-13/8545933>

COOLANT FAN & PUMP



H2OS Heaters are PWM Controlled and max out at about 0.9 Amps
at room temperature, then reducing with coming heat

H2OS Heaters



CCFC: Harley uses 2N06L35 TODO!

CCFC & HO2HTR

