MCU

File: mcu.kicad_sch

Sensors

File: sensors.kicad_sch

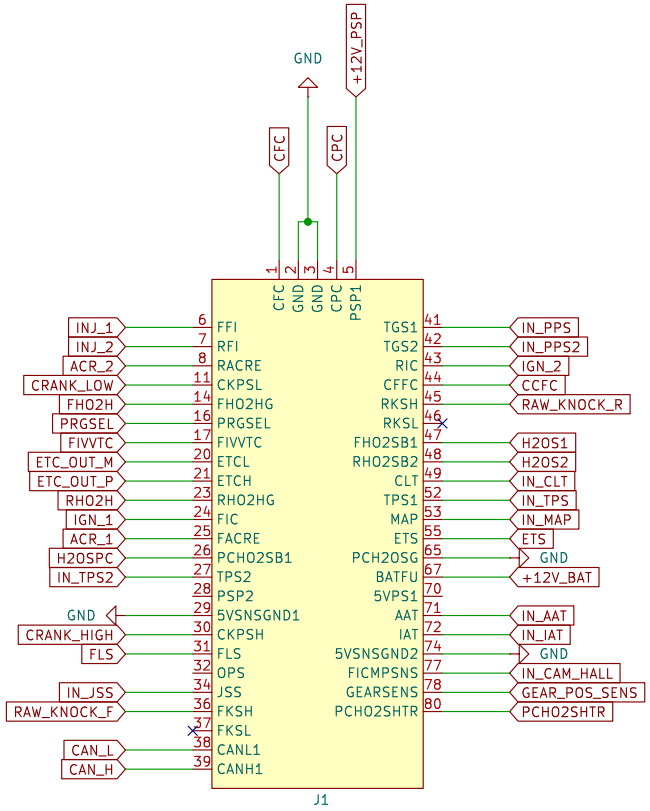
Bluetooth

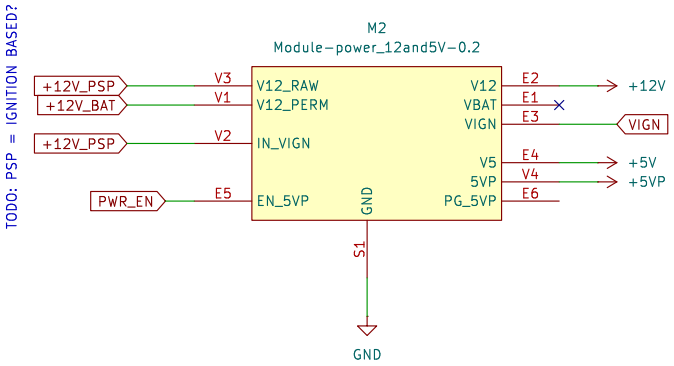
File: bluetooth.kicad_sch

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: GEARSENS analyze the signal -> Kind of analog?
DONE: AM POSITION = FICMPSNS Hall effect or what is that?
Knock Sensor LOW signals not needed?





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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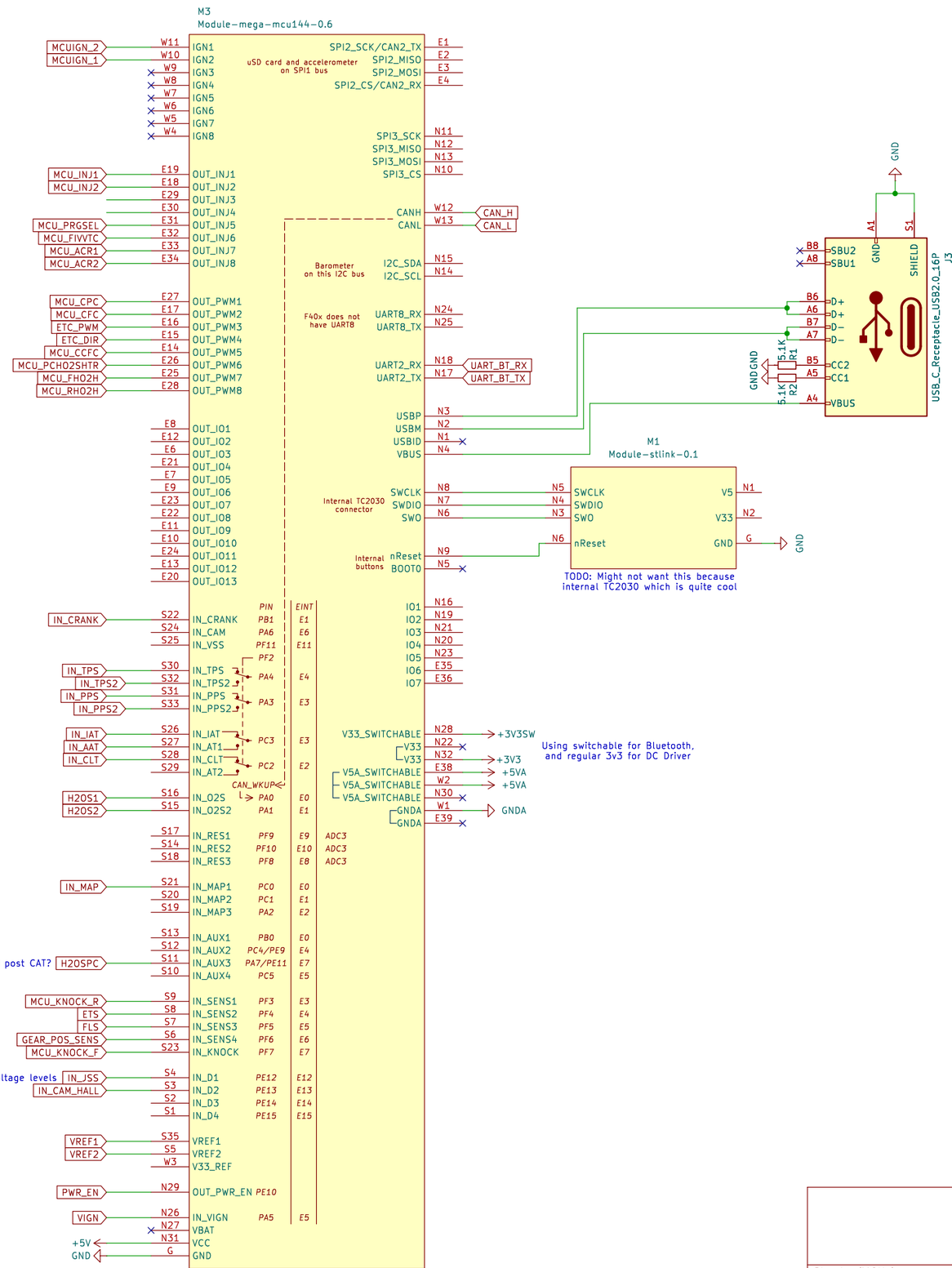
Size: A4	Date:	**Rev:** A
KiCad E.D.A. 8.0.6		Id: 1/5



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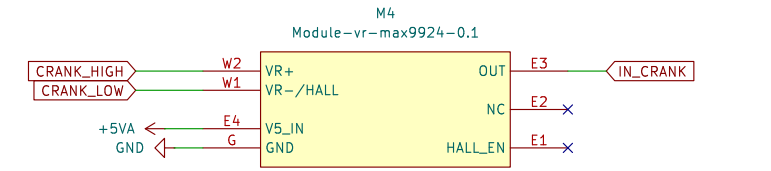
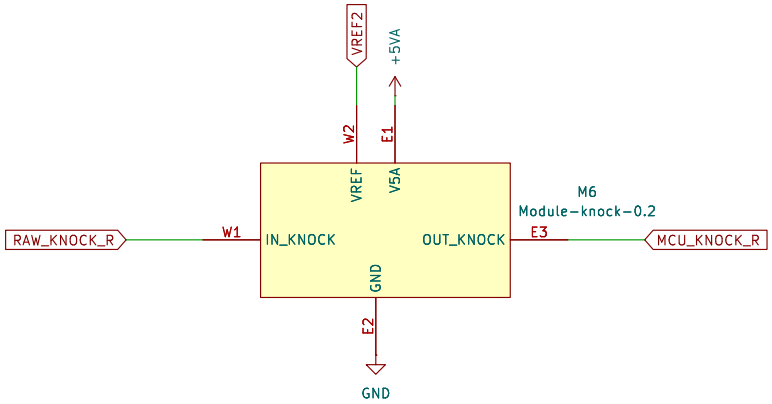
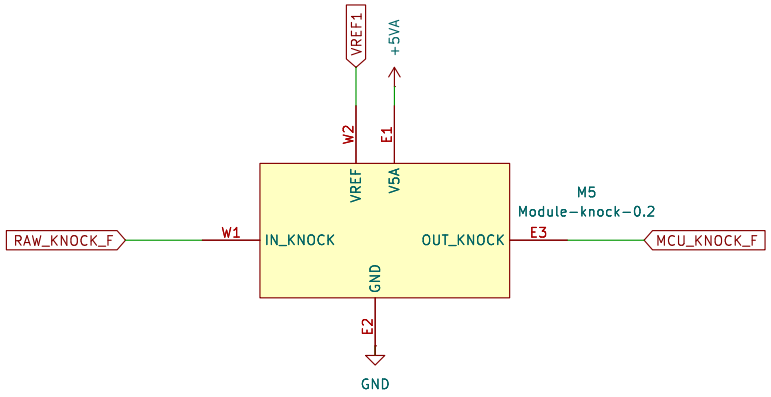
	Rev:







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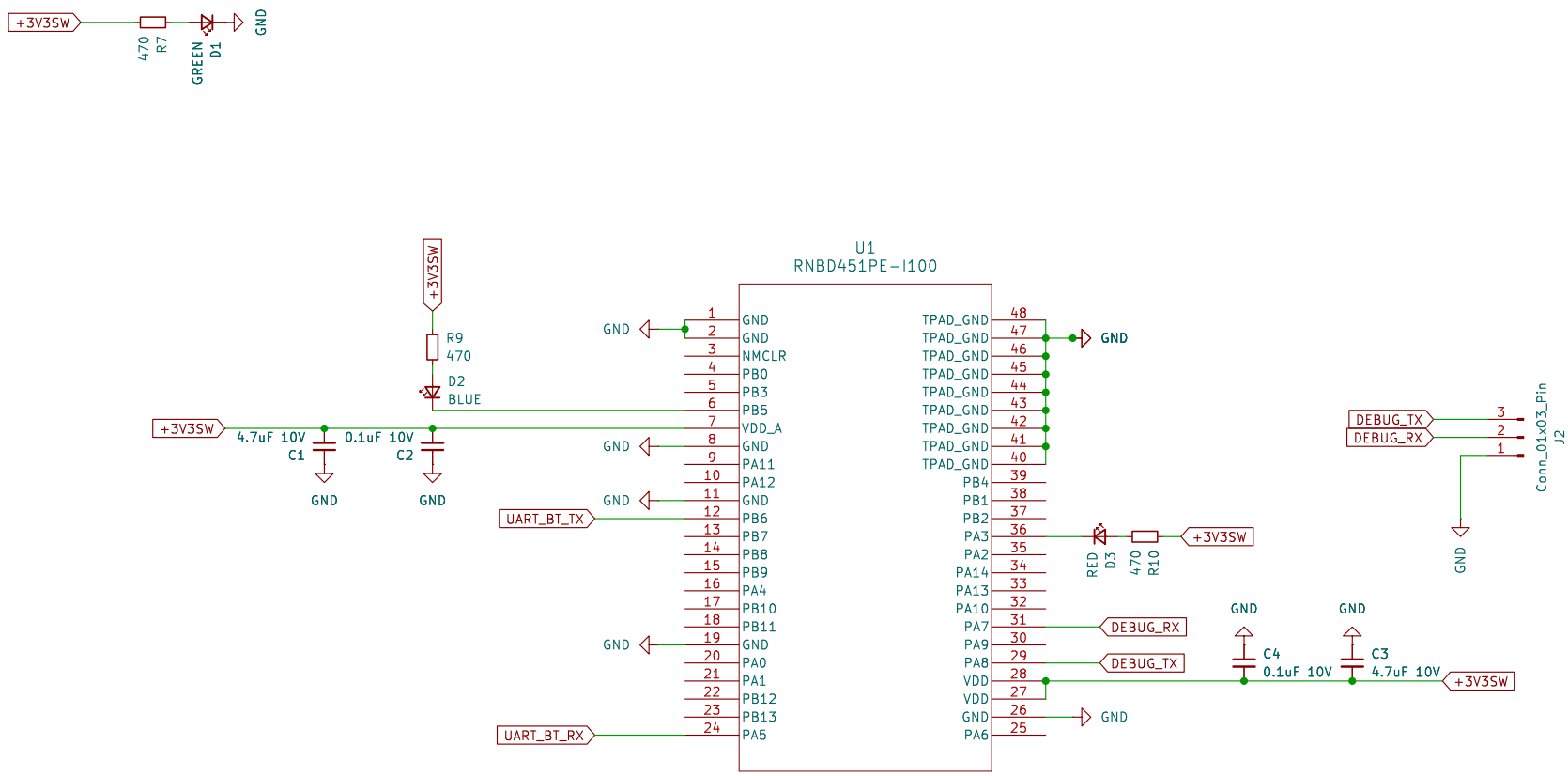
KiCad E.D.A. 8.0.6		Id: 4/5



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File: bluetooth.kicad_sch

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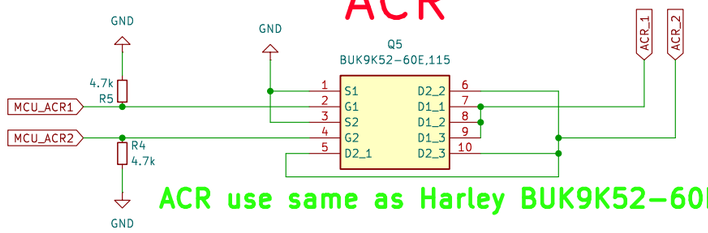
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.6		Id: 5/5

INJECTORS

INJECTORS MEASURED TO TAKE MAX 1A EACH WHEN OPEN

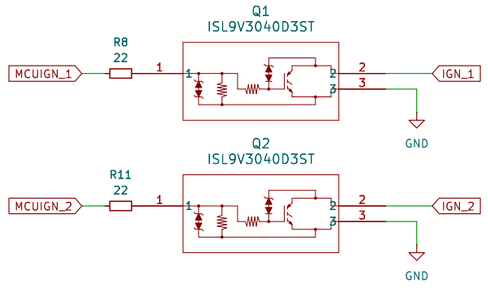
ACR



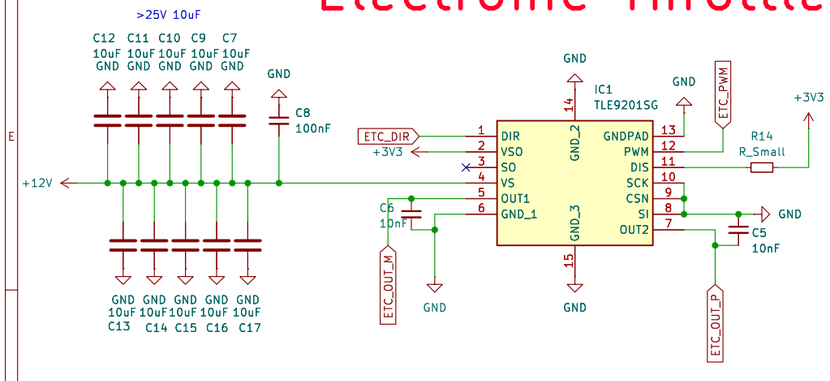
ACR use same as Harley BUK9K52-60E

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

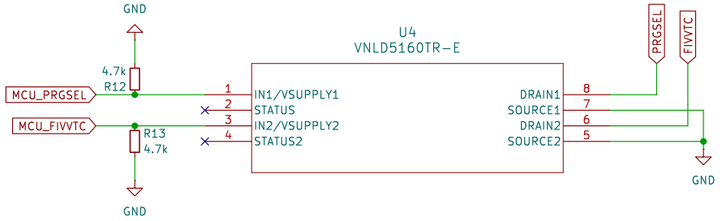
IGNITION



Electronic Throttle

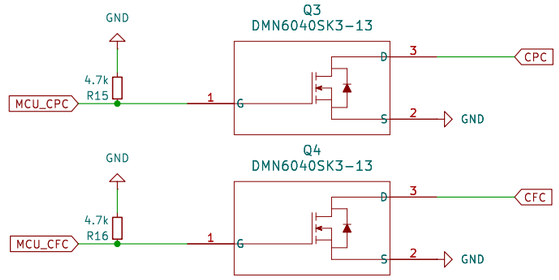


PURGE & VVT SOLENOIDS



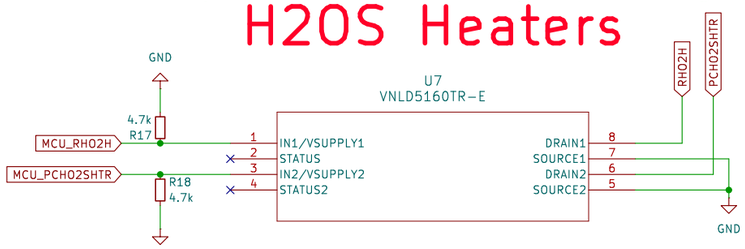
COOLANT FAN PULLS AROUND 4A WHEN CONSTANT 100%,
INITIALLY PULLING UP TO 8A FOR GETTING SPINNING
HARLEY USES: HUFA76429D3
POSSIBLE: https://www.digikey.de/de/products/detail/onsemi/HUF76629D3ST/4553106
AND: https://www.digikey.de/de/products/detail/diodes-incorporated/DMN6040SK3-13/8545933

COOLANT FAN & PUMP



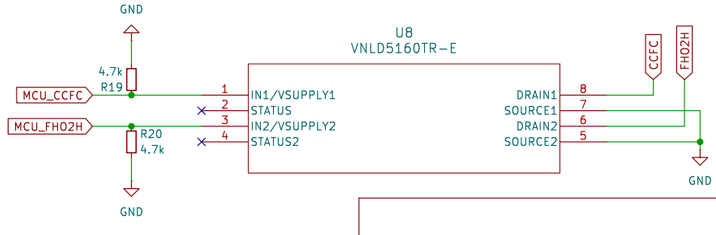
H2OS Heaters are PWM Controlled and max out at about 0.9 Amps
at room temperature, then reducing with coming heat

H2OS Heaters



CCFC: Harley uses 2N06L35 TODO!

CCFC & HO2HTR



Sheet: /Outputs/
File: outputs.kicad_sch

Title:

Size: A3 | Date: | **Rev:**
KiCad E.D.A. 8.0.6 | Id: 6/5