MCU

File: mcu.kicad_sch

Sensors

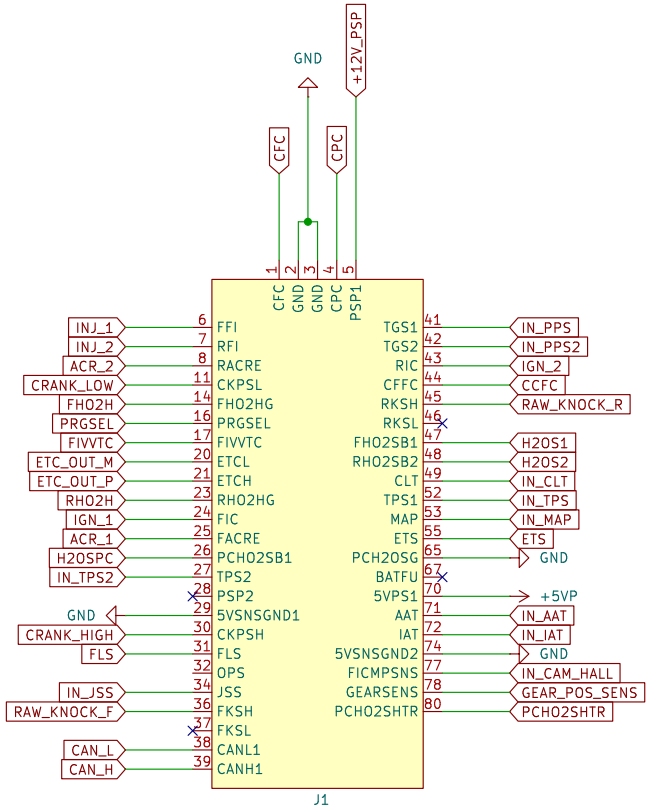
File: sensors.kicad_sch

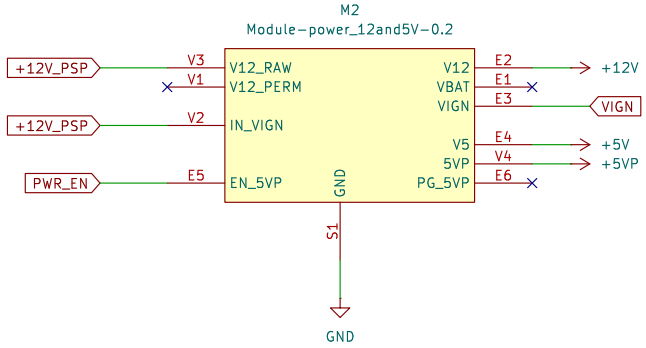
Bluetooth

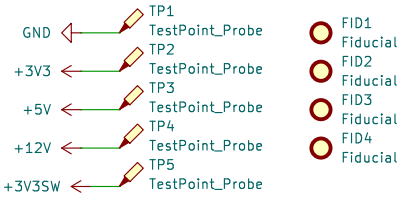
File: bluetooth.kicad_sch

Outputs

File: outputs.kicad_sch







Hellen-Bremen

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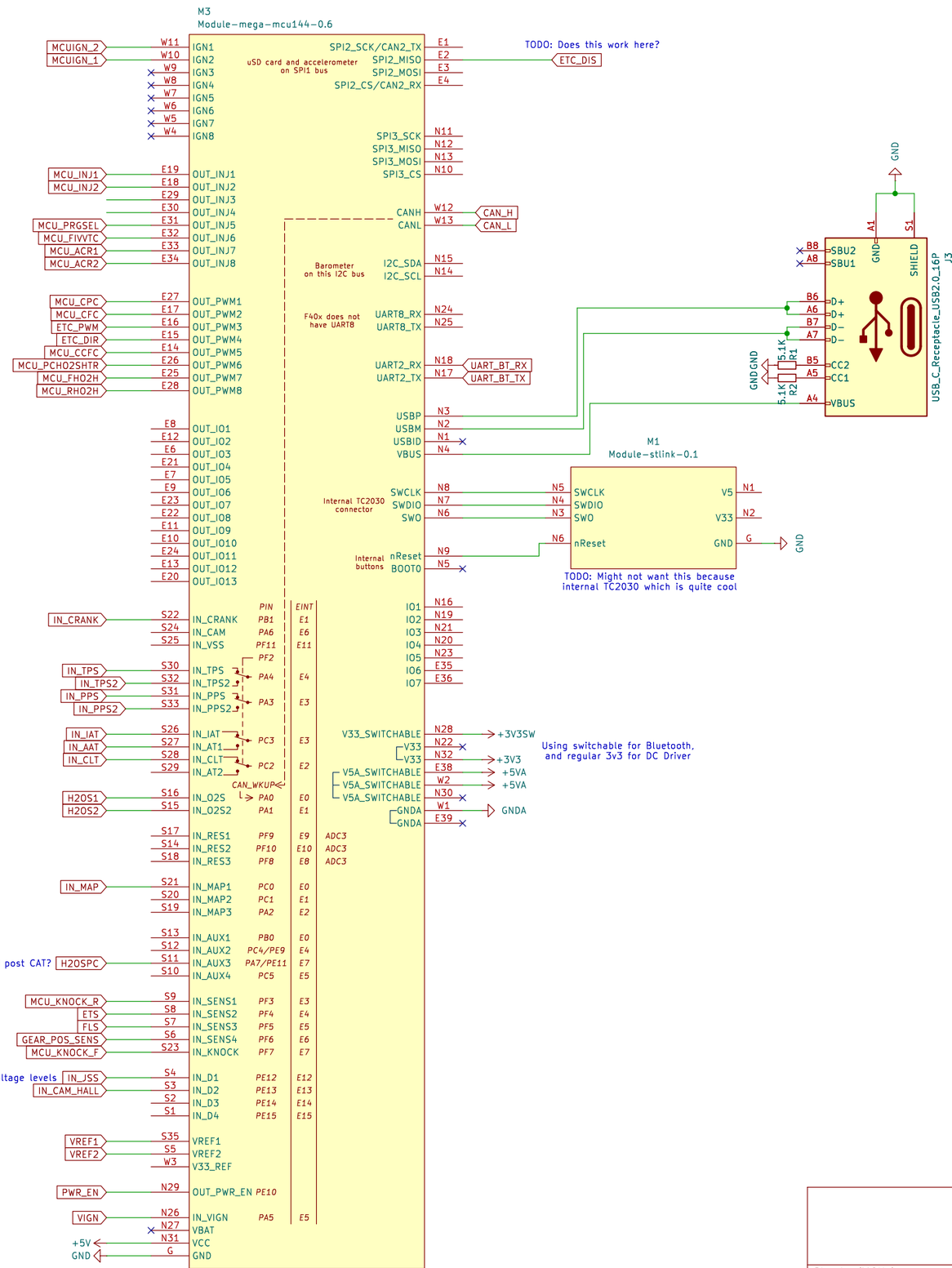
KiCad E.D.A. 8.0.7		Id: 1/5



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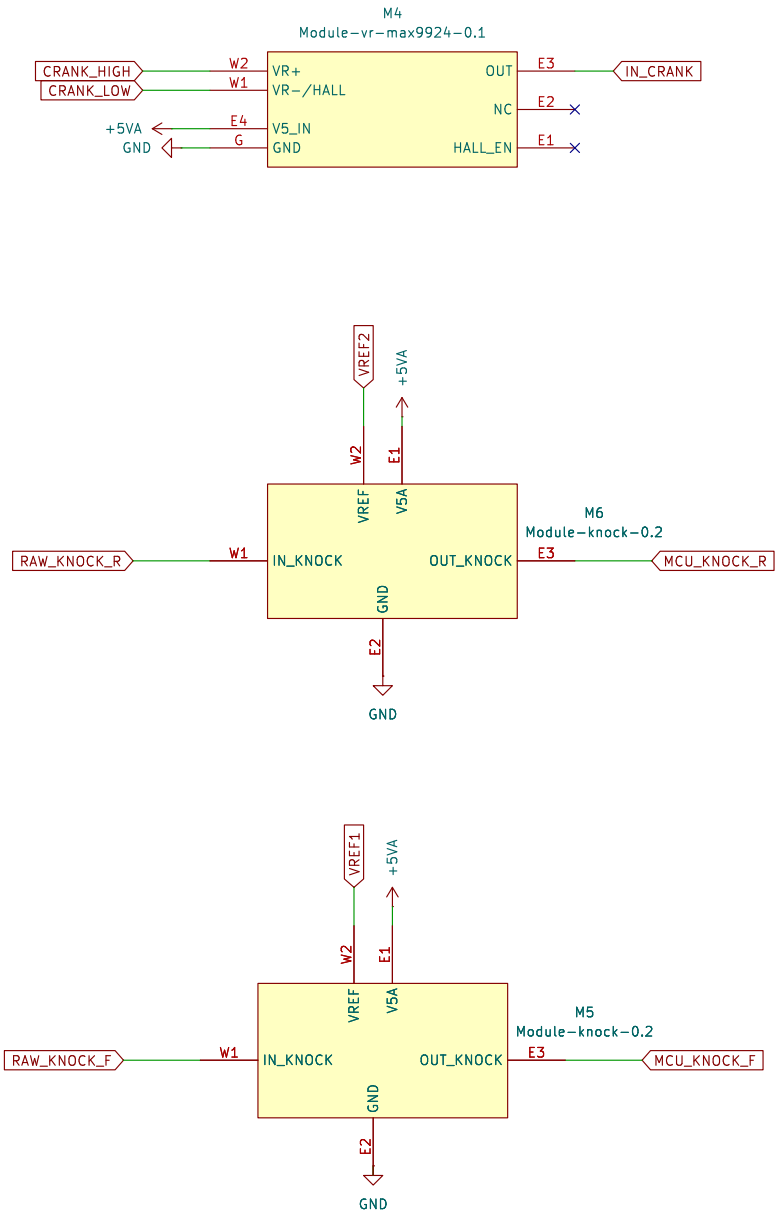

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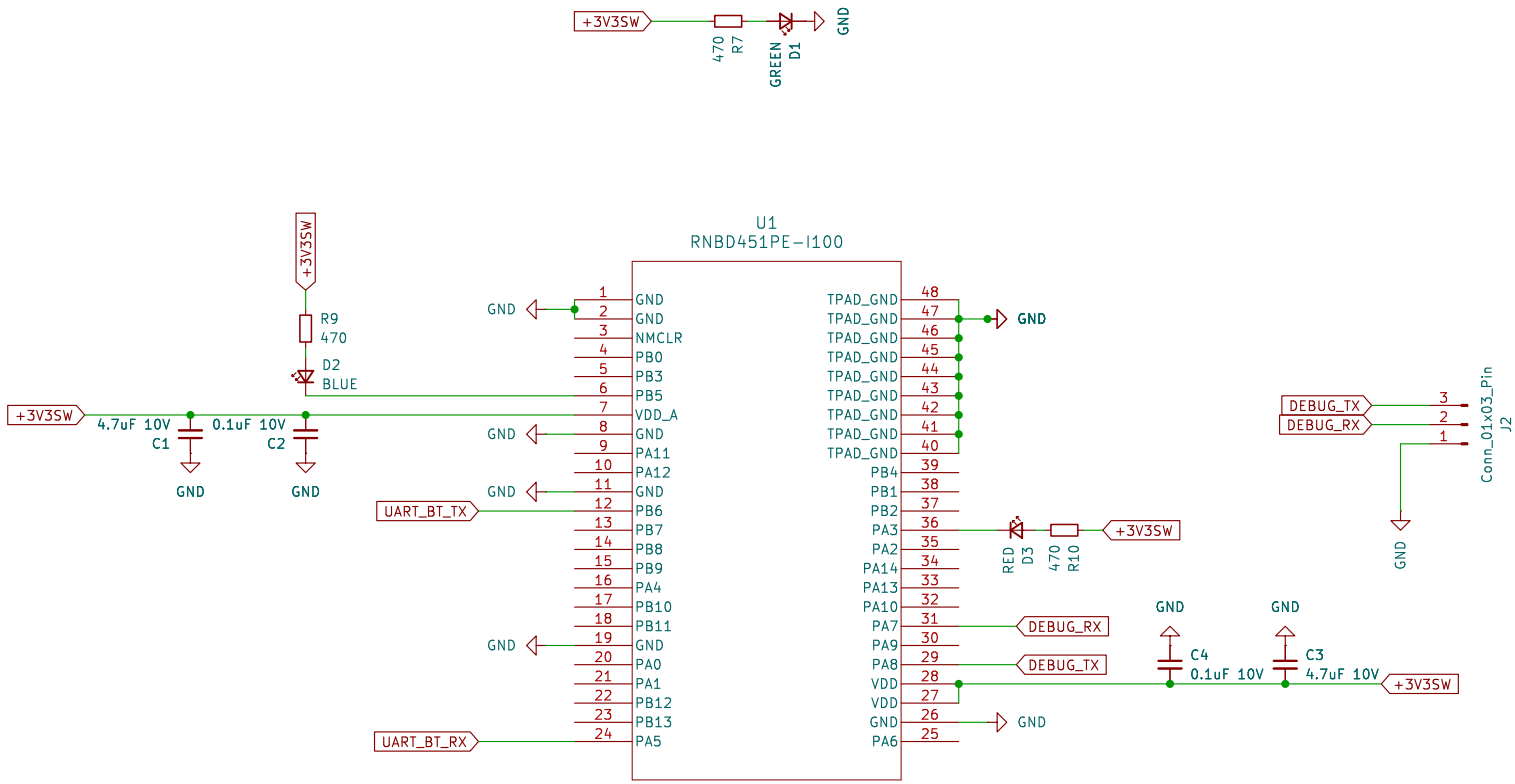

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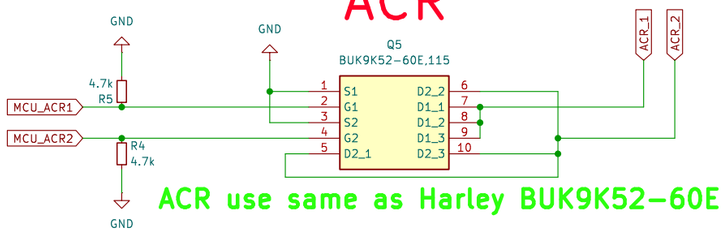
Size: A4	Date:	**Rev:**
KiCad E.D.A. 8.0.7		Id: 5/5

INJECTORS

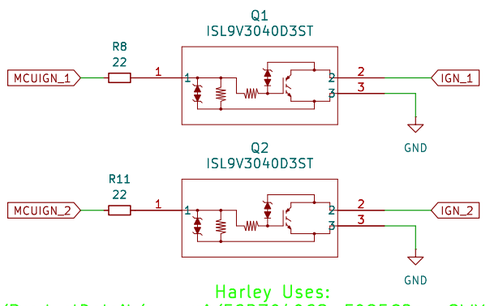
INJECTORS MEASURED TO TAKE MAX 1A EACH WHEN OPEN
VNLD5160TR-E should be fine
HARLEY uses 2N06L35

ACR



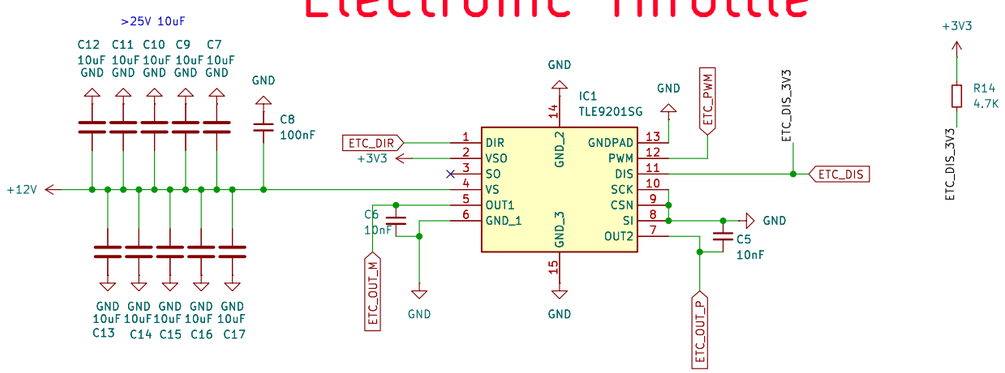
ACR use same as Harley BUK9K52-60E

IGNITION



Harley Uses:
https://www.mouser.de/ProductDetail/onsemi/FGB3040G2-F085C?qs=2WXlatMagcHzMRj1hscbYQ%3D%3D
ISL9V3040D3ST should work though

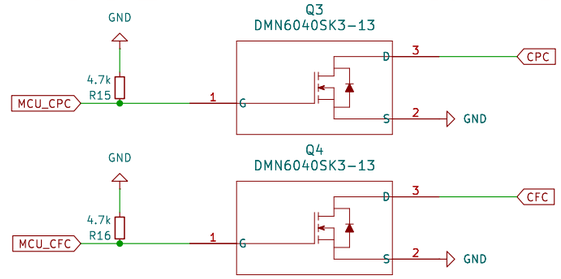
Electronic Throttle



PURGE & VVT SOLENOIDS

TODO: PURGE AND VVT SOLENOIDS NOT MEASURED YET AT ALL

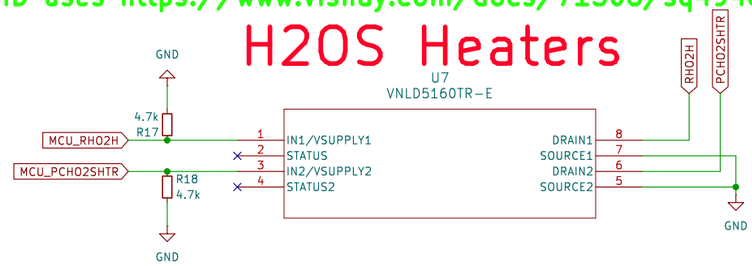
COOLANT FAN & PUMP



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
Weytronik: https://www.digikey.de/de/products/detail/vishay-siliconix/SISS54DN-T1-GE3/14004251?s=N4IgTCBcDaIMoEk5wKwBYAiA5EBdAvkA

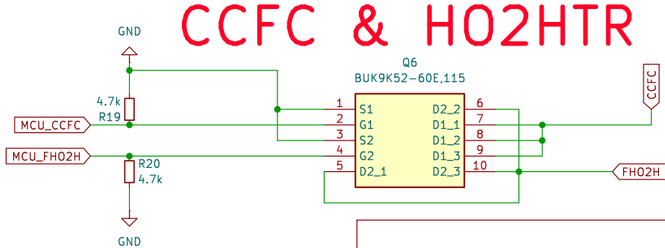
H2OS Heaters are PWM Controlled and max out at about 0.9 Amps
at room temperature, then reducing with heat coming.
VNLD5160TR-E should work. Will test
HD uses https://www.vishay.com/docs/71506/sq4946aey.pdf

H2OS Heaters



CCFC: Harley uses 2N06L35
TODO: Does this part really make sense?

CCFC & HO2HTR



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KiCad E.D.A. 8.0.7		Id: 6/5