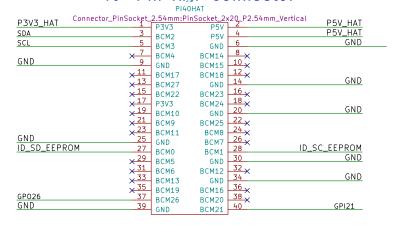
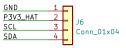
This is based on the official Raspberry Pi spec to be able to call an extension board a HAT. https://github.com/raspberrypi/hats/blob/master/designguide.md

## MORSE KOB HAT

## 40-Pin HAT Connector



## 12C Interface



20 MM COOLING FAN FOR RPI4

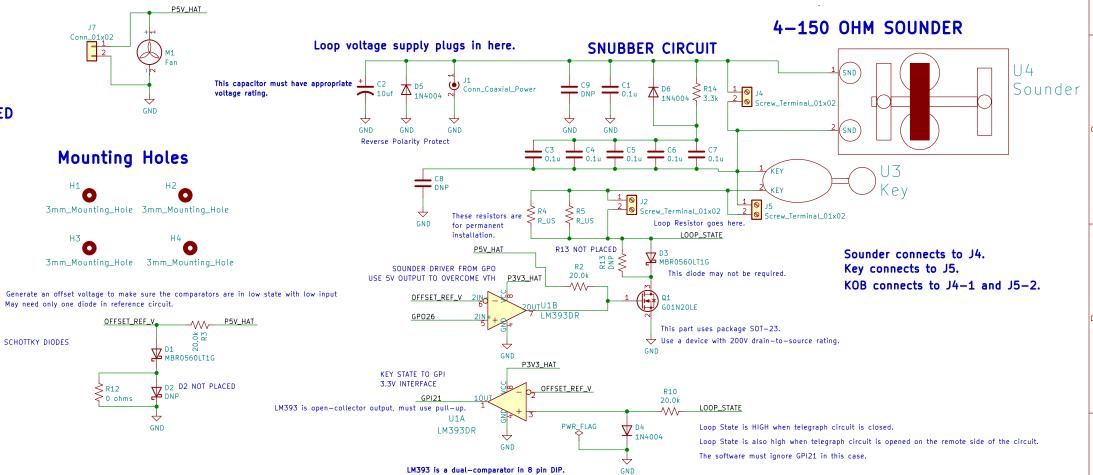
HAT spec indicates to NEVER power the 3.3V pins on the Raspberry Pi from the HAT header. Only connect the 3.3V power from the Pi if the HAT does not have 3.3V on board.

IF you are designing a board that could either be powered by the Pi or from the HAT the jumpers here can be used.

In most cases, either design the HAT to provide the 5V to the Pi and use the protection circuit above OR power the HAT from the Pi and directly connect the P3V3 and P5V to the P3V3\_HAT and P5V\_HAT pins.

Used screw terminals instead of binding posts. Just more practical.

## STANDARD HAT EEPROM AND OTHER STUFF REMOVED



Gregory Raven
PiKOB Prototype Hat
Sheet: /
File: rpikobhat.kicad\_sch

Title: Raspberry Pi HAT
Size: A3 Date: 2022-05-20 Rev: P2
KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1 Id: 1/1