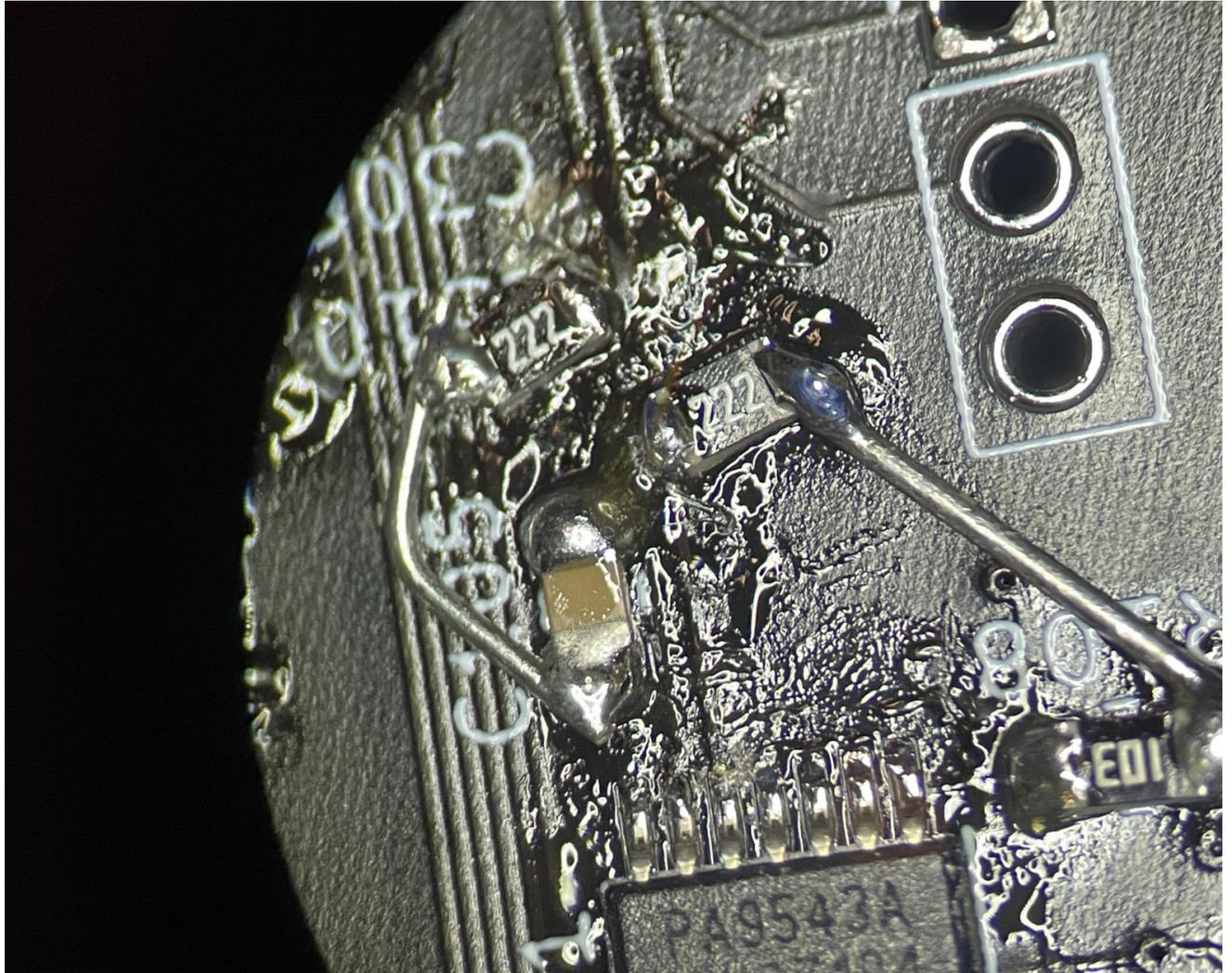# Hardware Errata

This page lists some issues with CPU board hardware, as they are discovered, and some workarounds.

Rev 1

- /I2C_IRQ's external IRQ line conflicts with ENCODER_A
  - Move /I2C_IRQ from PA7 to PA10
  - Rework required: solder line from pin 11 (/IRQ) of U101 to middle of J302 (TXD)
- Status LED (D302) footprint is wrong
  - The common (+) and red pins are swapped
- Footprint for MMBT3904 transistors (Q101, Q301) are slightly too small
  - The two pads side is slightly too much spacing between pads
  - They are still solderable, it just looks ugly
- NOR Flash (U303) is actually 4Mbit
  - This is the part I actually had lol
- Power LED driver doesn't work
  - The weird trick with the two resistors doesn't seem to work... like, at all
  - We'll have to revisit how this is controlled (external logic? sacrificing another pin?)
  - Footprint notes
    - Copper size on the pads could be increased
    - For mechanical retention of the switch, nudge the outer (switch) pads in by a small amount
- Switched front/rear I²C bus (from mux to MCU) is missing pull ups
  - Need to insert these between the mux (U101) and microcontroller

- Rework required: Bodge in a pair of 2k2 resistors to +3V3

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