PRIMARY PROPOSAL / UNQUALIFIED: hardware fit, firmware pins and physical behavior require bench checks.

Six Schmitt input cells replace native non-Schmitt LCX07: diode-isolated pullups prevent field-input backfeed.

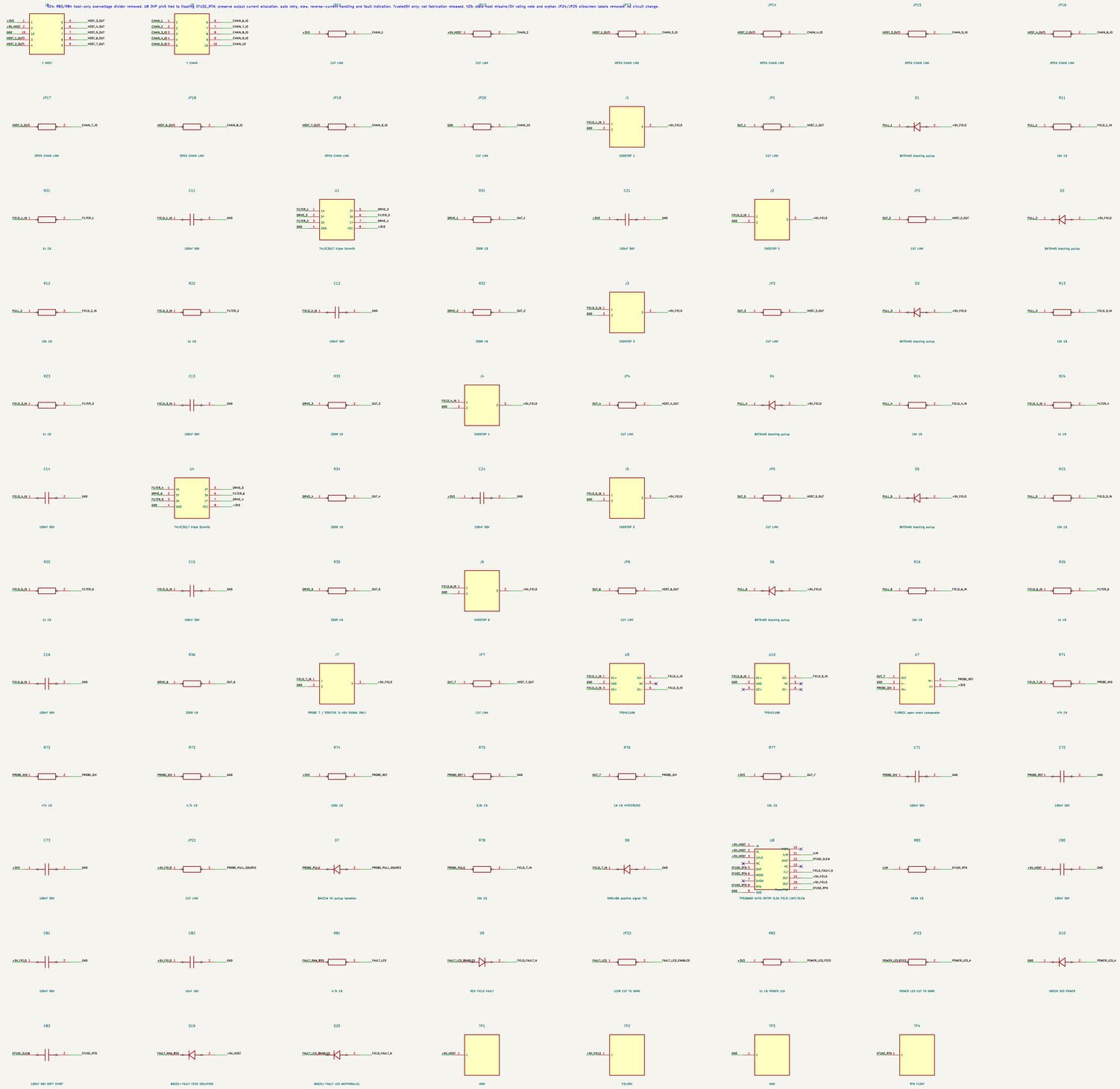
Probe: positive 3-45V signal only on J7 pin1; J7 pin3 remains protected5V. Never connect45V to power pins.

Factory: local JP1-7 closed; chain JP13-19 open. Bridge a chain GPIO only after cutting its local output link.

TPS26600: MODE=RTN autoretry, UVLO=IN, SHDN internalpullup, OVP tied to floating RTN (internal 33V cutoff); RTN/PowerPAD NOT GND; trusted keyed host 5V only; separatehost3V3notprotected.

Trusted keyed Y HOST supply: no separate host reverse/OV warning circuit. UB retains 0.2A automatic-retry field-output current limiting, reverse-current handling and startup control; D9/JP22 retain field fault indication and disable.

R24: R83/R84 host-only overvoltage divider removed. UB OVP pin5 tied to floating EFUSE_RTN: preserve output current allocation, auto retry, slew, reverse-current handling and fault indication. Trusted5V only; not fabrication released. V25: store host mlswire/OV rating note and orphan JP24/JP25 silkscreen labels removed in circuit change.



Smoothieware / CERN-OHL-S-2.0

Sheet: /

File: endstop-inputs.kicad_sch

Title: Seven-channel endstop inputs

Size: A1	Date: 2026-10-30	Rev: v25
KiCad E.D.A. 9.0.8		Id: 1/1