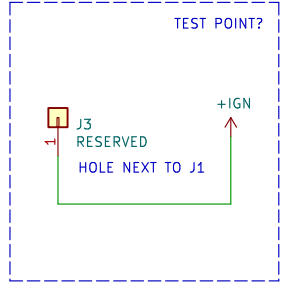
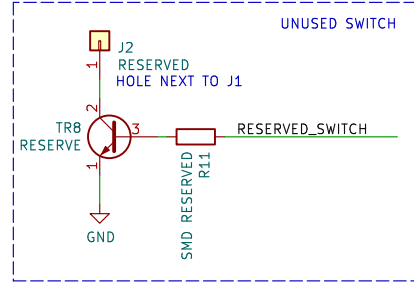
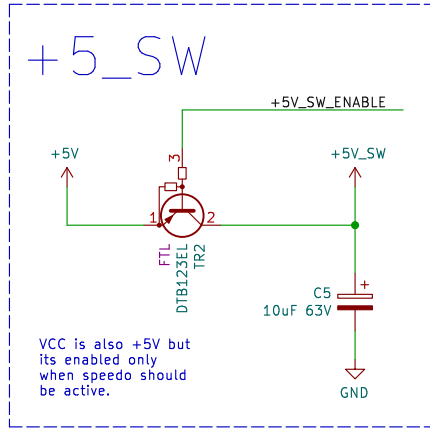
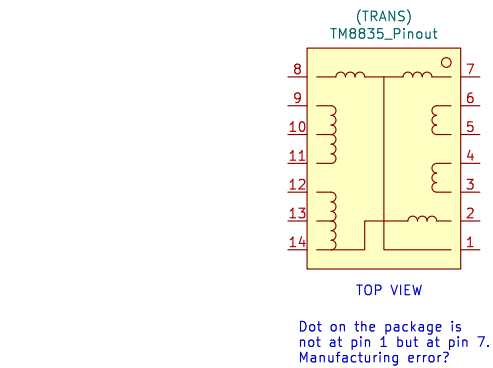
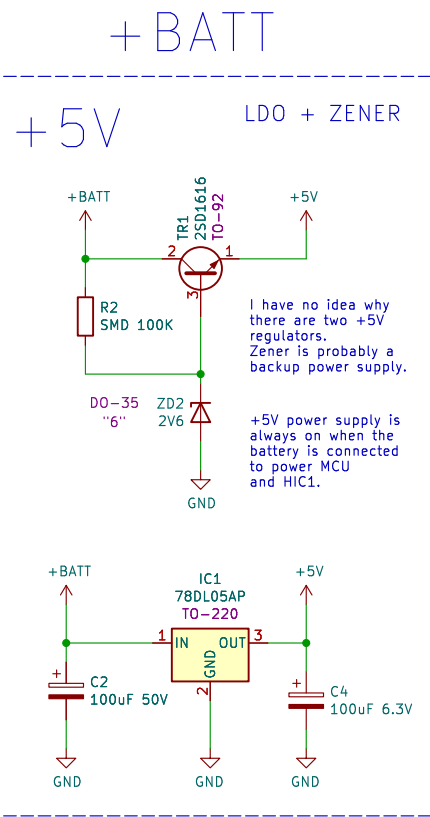
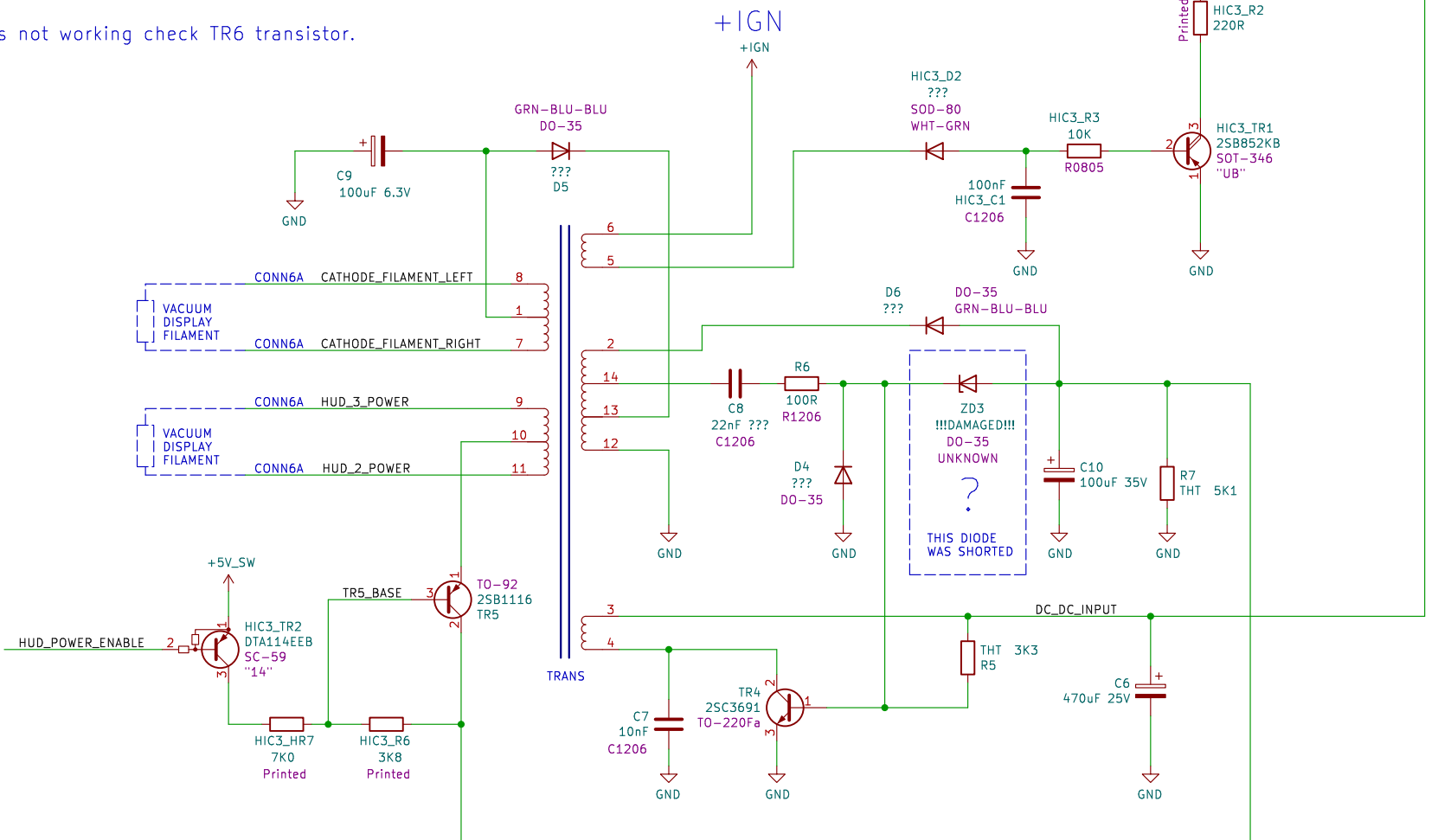


I wan't able to figure out how it actually works so I'm not able to confirm that this circuit is correct.

If the +10V is not working check TR6 transistor.

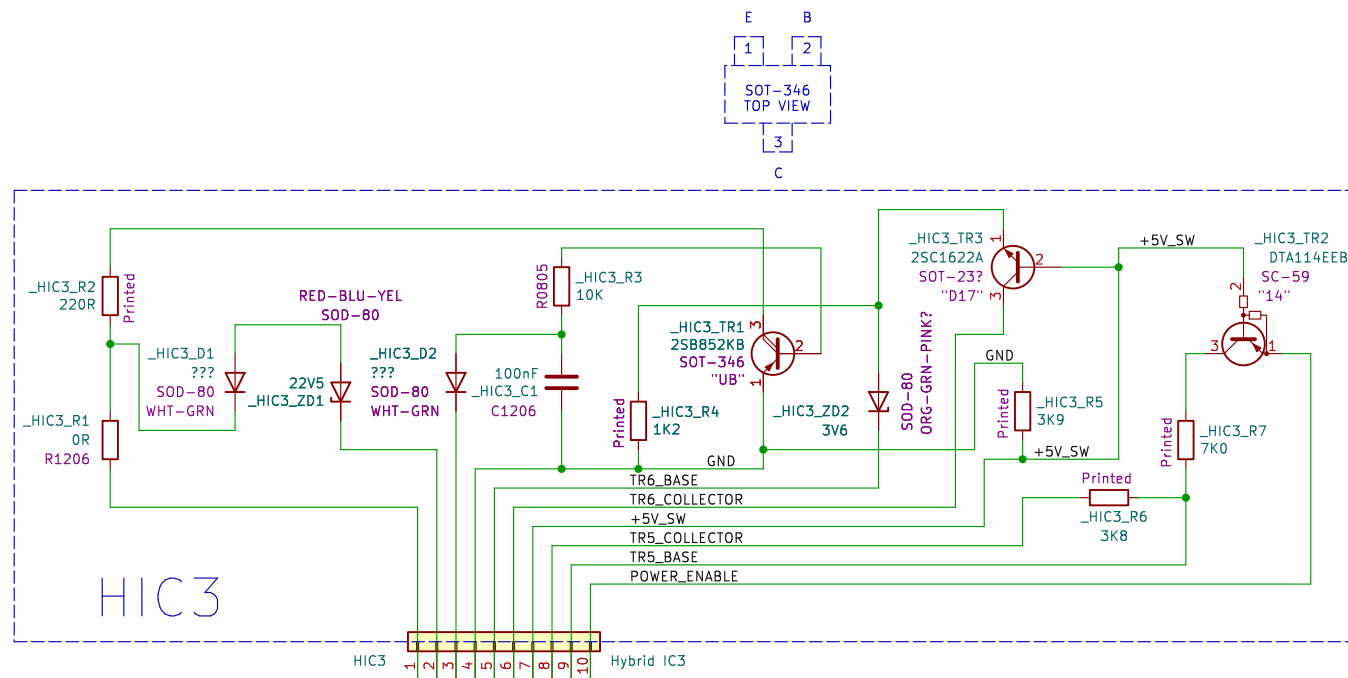


Be aware that this sheet coitans some errors in parts topology.

NISSAN 180/240SX S13 Digital Speedometer Power Board

Sheet: /PowerBoard/ File: PowerBoard.kicad_sch blog.michalhrouda.cz

Title: Size: A3 Date: 2026-01-31 Rev: REV3 KiCad E.D.A. 9.0.0 Id: 2/7



NISSAN 180/240SX S13 Digital Speedometer Main Board – Hybrid IC 3

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File: HybridIc3.kicad_sch

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Title:

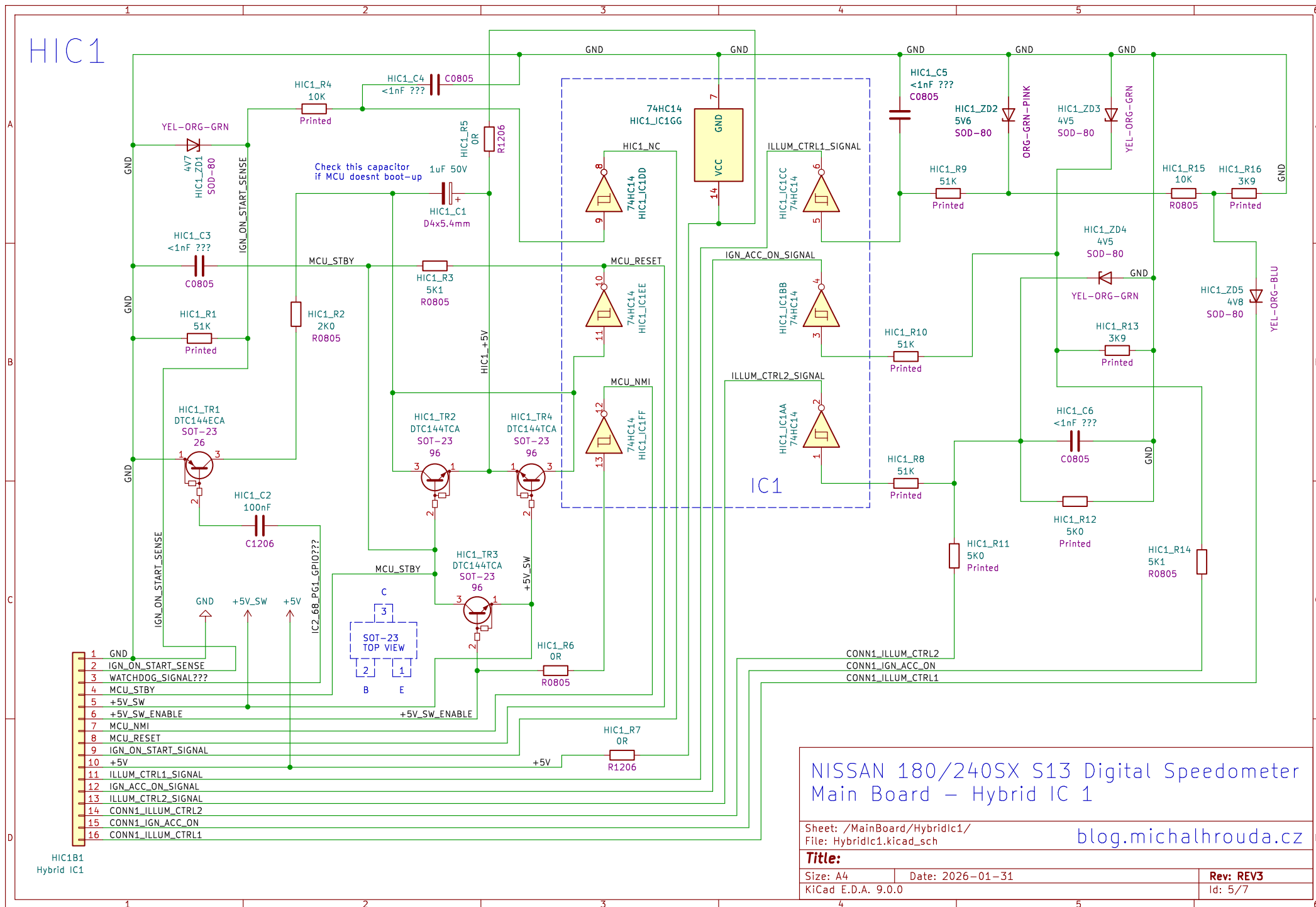
Size: A4 Date: 2026-01-31

KiCad E.D.A. 9.0.0

Rev: REV3

Id: 3/7

HIC1



NISSAN 180/240SX S13 Digital Speedometer Main Board – Hybrid IC 1

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Title:

Size: A4

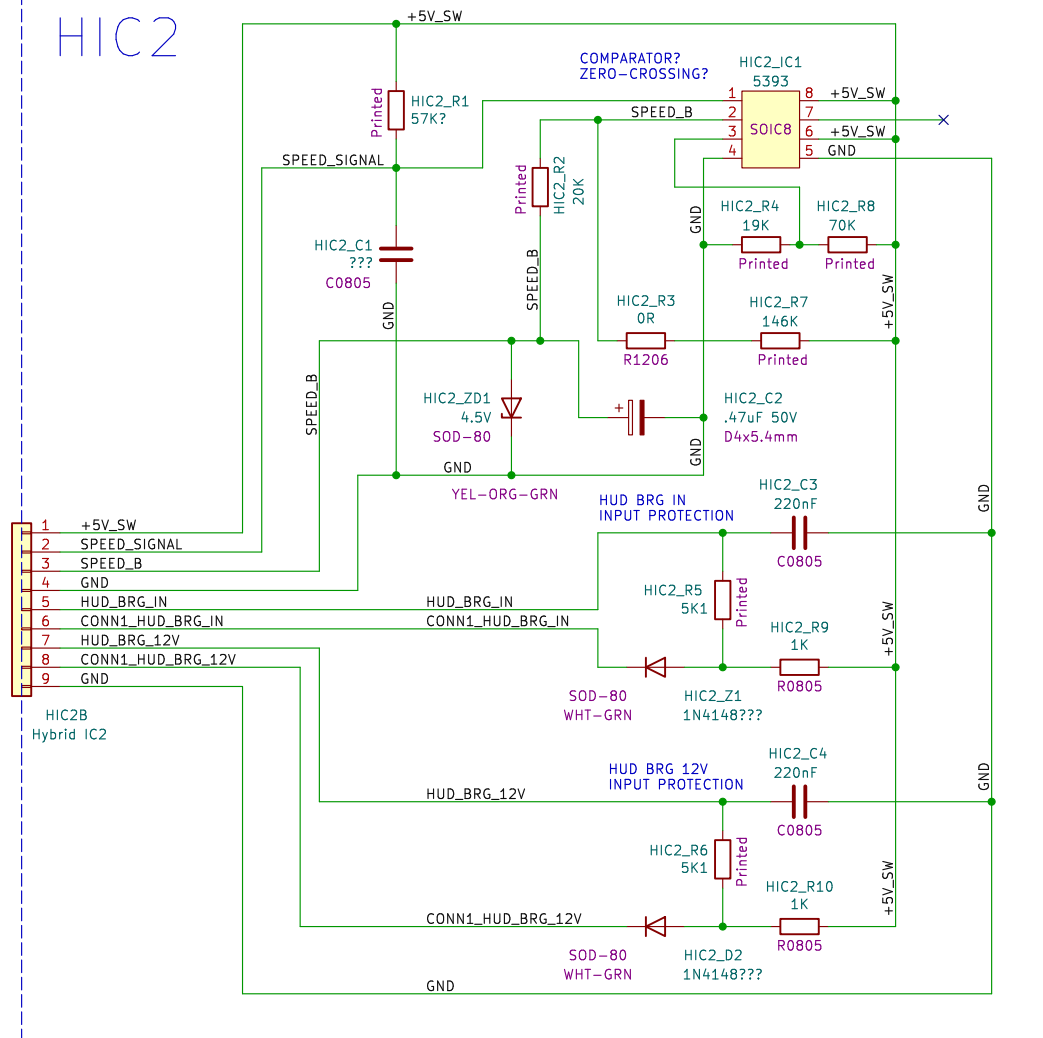
Date: 2026-01-31

Rev: REV3

KiCad E.D.A. 9.0.0

Id: 5/7

HIC2



NISSAN 180/240SX S13 Digital Speedometer Main Board – Hybrid IC 2

Sheet: /MainBoard/HybridIc2/
File: HybridIc2.kicad_sch

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Title:

Size: A4

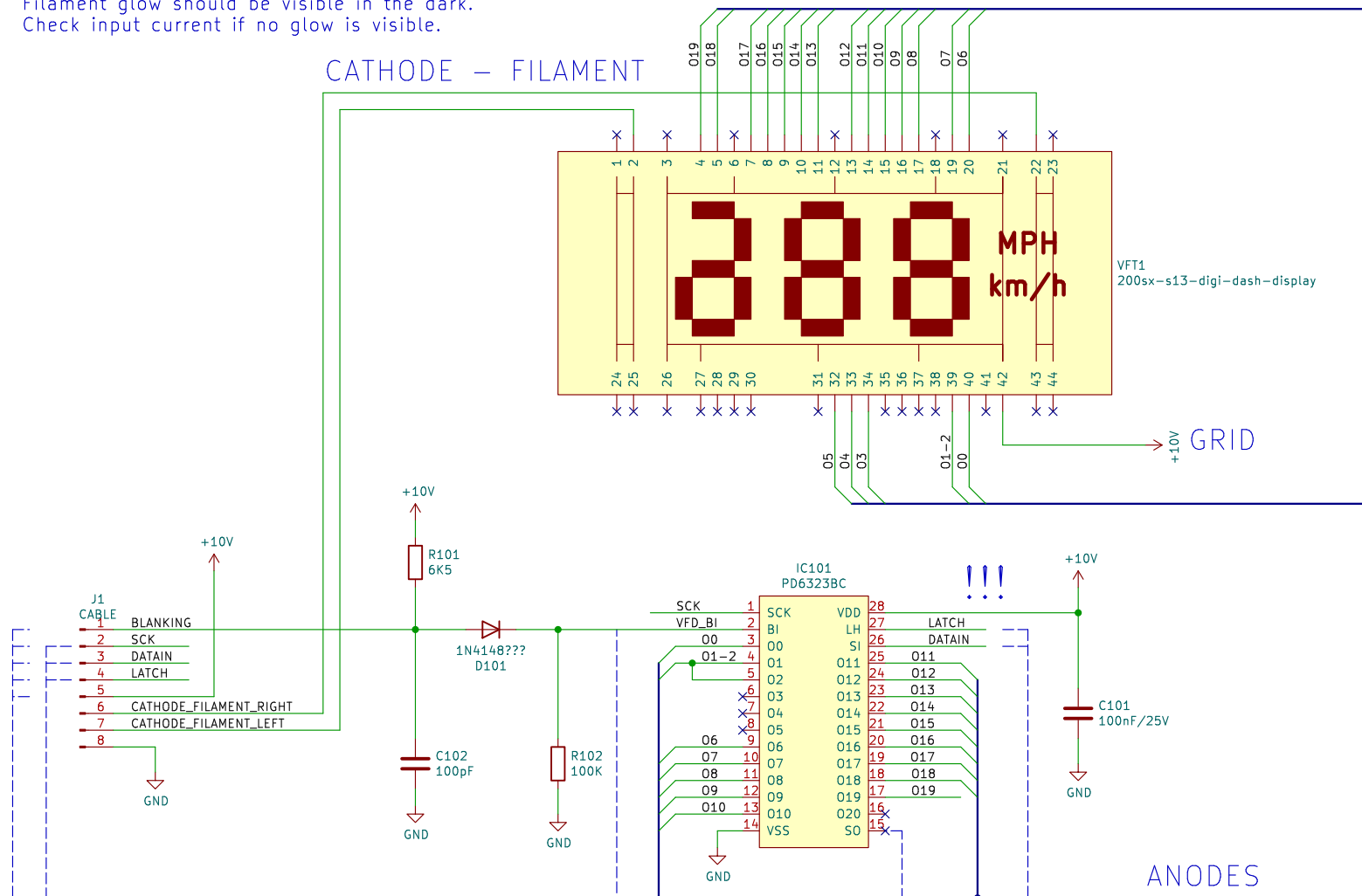
Date: 2026-01-31

Rev: REV3

KiCad E.D.A. 9.0.0

Id: 6/7

Filament glow should be visible in the dark.
Check input current if no glow is visible.



Blanking fall to low after power-up

- Connect GND, VBAT, IGN ACC, IGN ON and check that there are data/clock

DO NOT SHORT ANY DATA SIGNALS WITH +10V!

Short will damage IC101, CPU on main board and +10V power supply!

NISSAN 180/240SX S13 Digital Speedometer
Display Board

Sheet: /DisplayBoard/

File: DisplayBoard.kicad_sch

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Title:

Size: A4

Date: 2026-01-31

Rev: REV3

SIZE: A1
KiCad E.D.A. 9.0.0

Id: 7/7