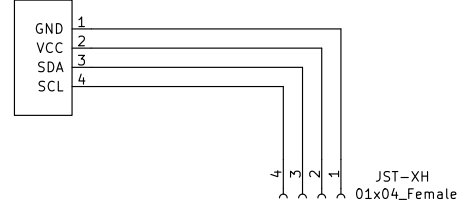
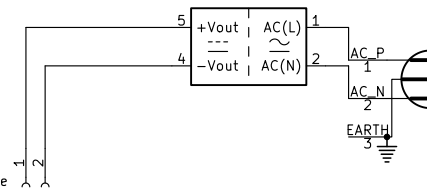


20x4 LCD Screen – ERM2004FS-3

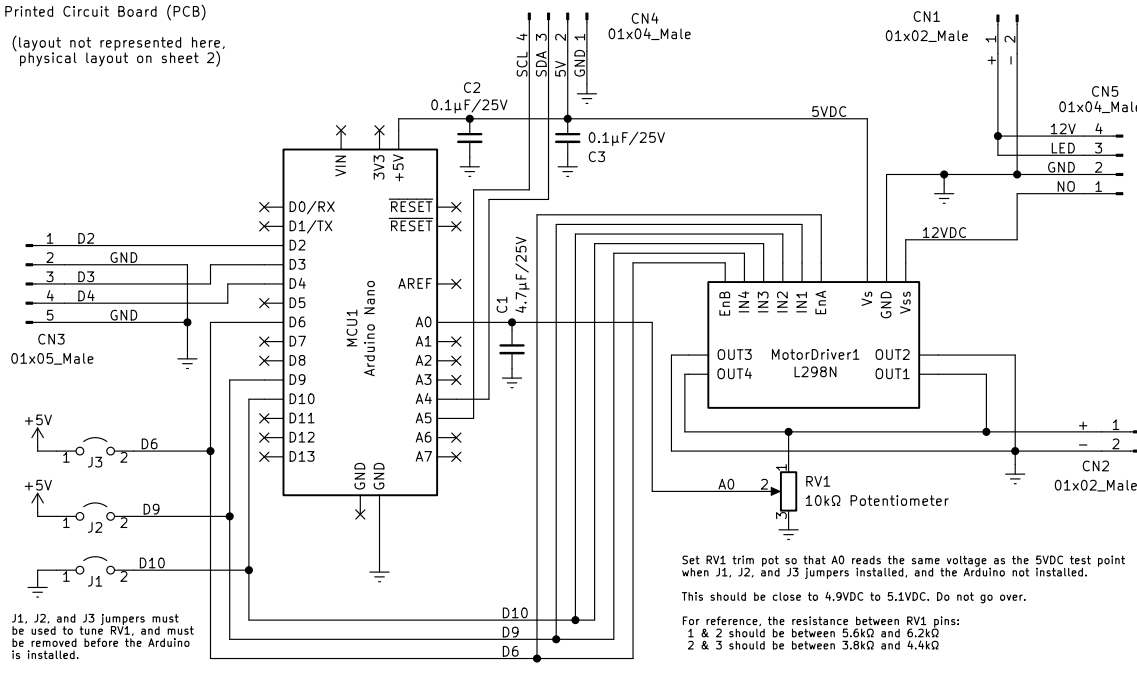


PS1
120VAC to 12VDC (4A)



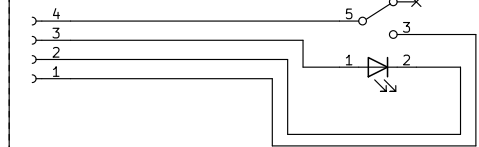
Printed Circuit Board (PCB)

(layout not represented here,
physical layout on sheet 2)

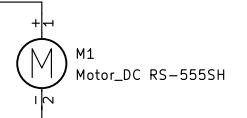


JST-XH
01x04_Female

SW1
SPDT 12V 4A Latching LED Power Switch



JST-XH
01x02_Female



Ensure DC motor is correctly wired for proper fan rotation direction.
Motor should be spinning counter-clockwise when looking at the motor from the shaft end, with the motor terminal end facing away.

First try:
- positive motor terminal (marked red) to PCB "MOTOR +"
- negative motor terminal (unmarked usually) to PCB "MOTOR -"
If spinning clockwise after trying the above, reverse polarity so that:
- positive motor terminal (marked red) to PCB "MOTOR -"
- negative motor terminal (unmarked usually) to PCB "MOTOR +"

Review all assembly videos and schematic notes before assembling circuit.

Use this schematic as a reference only, the physical layout of the PCB is shown on sheet 3.

Project directory on Thingiverse: <https://www.thingiverse.com/thing:4743929>
Project directory on Github with PCB files: <https://github.com/nairck/TurbofanDriver>

Original design by Nairck
with PCB design by Cyberfox361

Sheet: /
File: Control Schematic V3.kicad_sch

Title: Control Schematic – V3

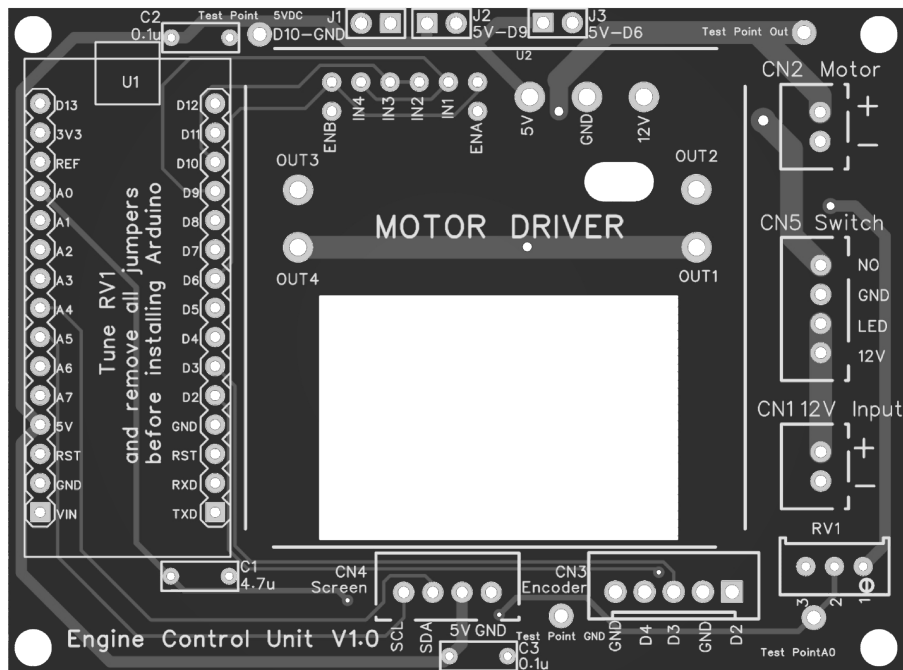
Size: A4 Date: 2024-09-07

KiCad E.D.A. kicad (6.0.4)

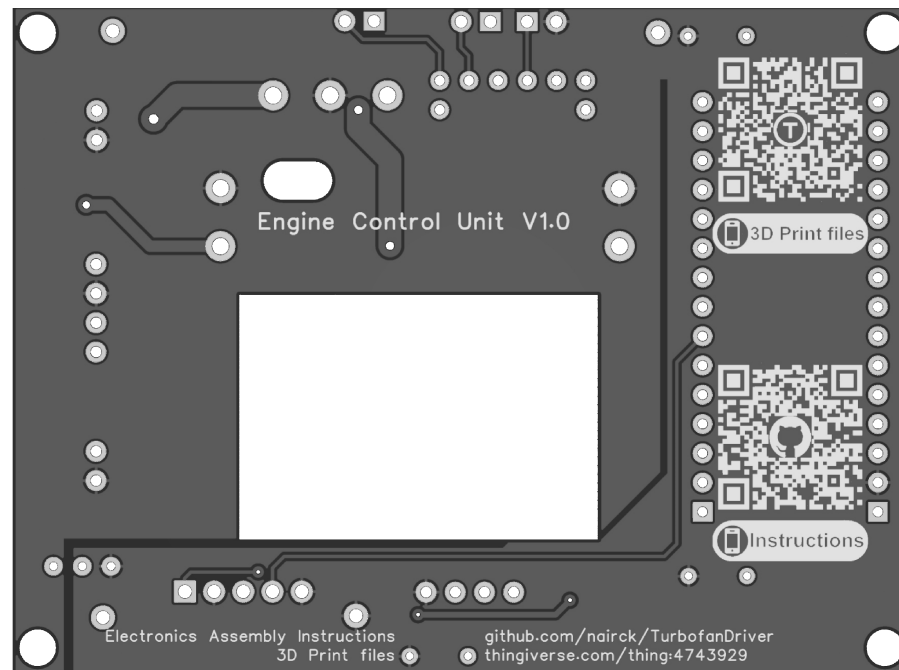
Rev: A

Id: 1/2

PCB Top



PCB Bottom



Original design by Nairck
with PCB design by Cyberfox361

Sheet: /PCB Layout/
File: PCB Layout.kicad_sch

Title: Control Schematic – V3

Size: A4 Date: 2024-09-07

KiCad E.D.A. kicad (6.0.4)

Rev: A

Id: 2/2