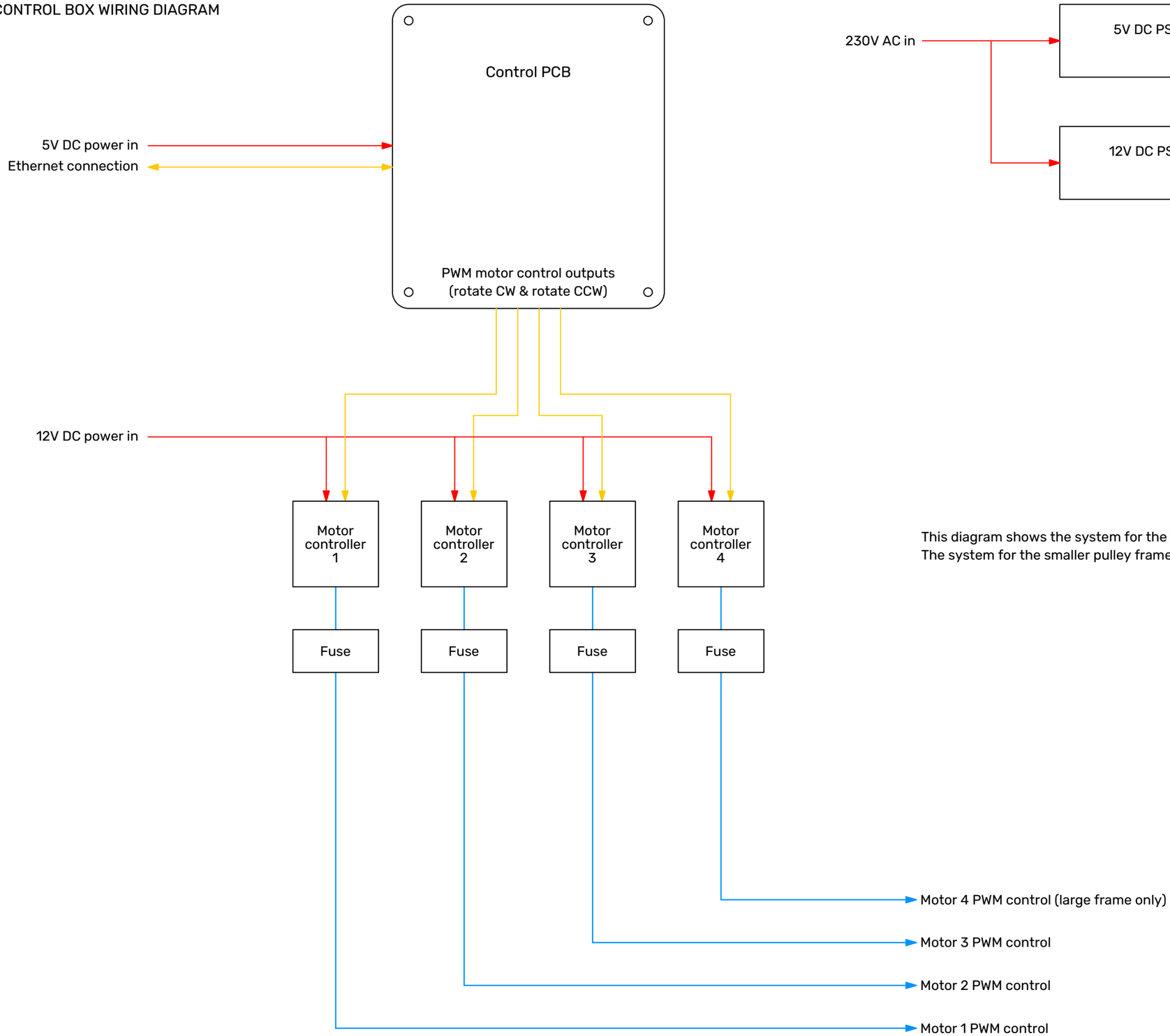
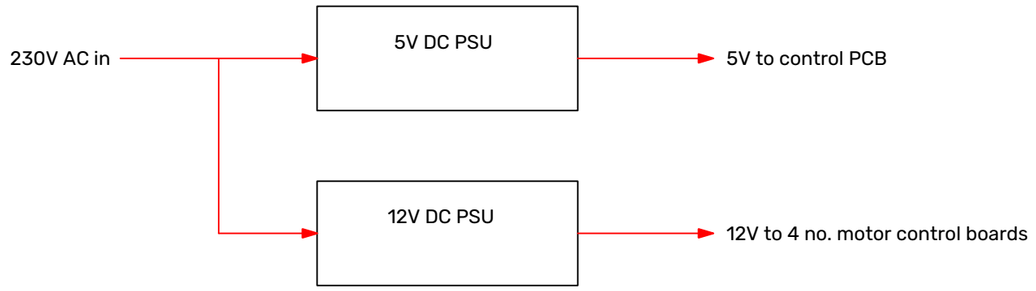
CONTROL BOX WIRING DIAGRAM

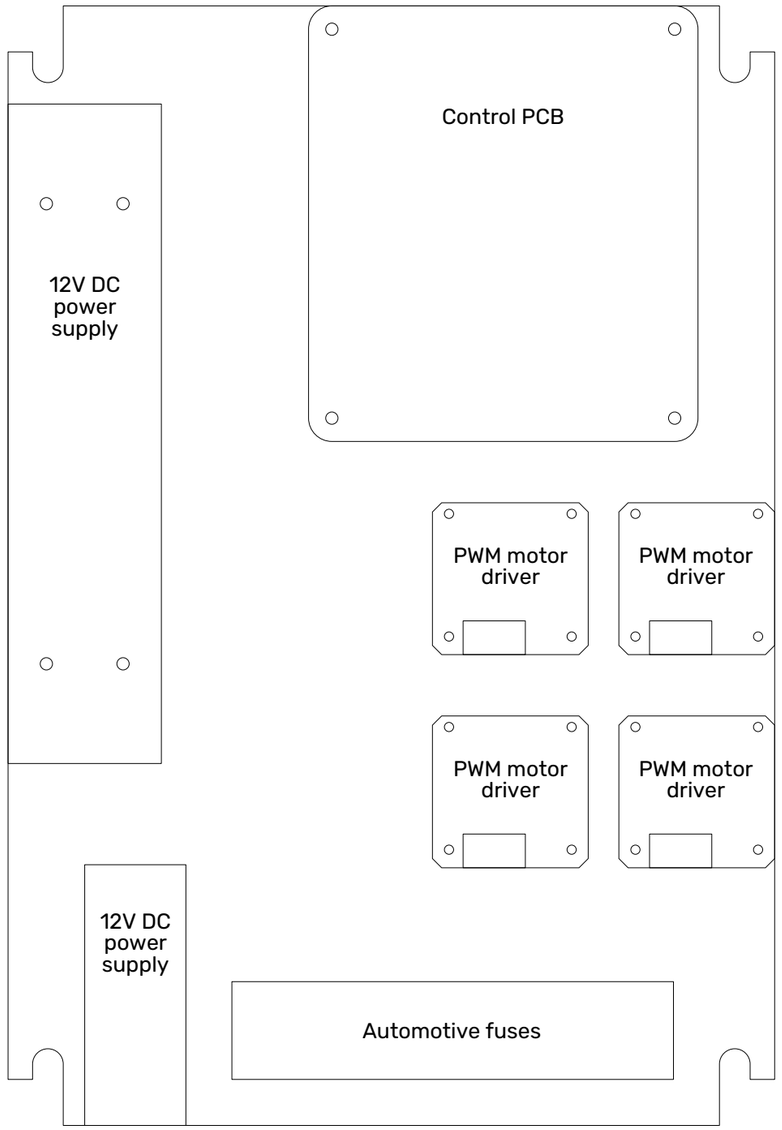




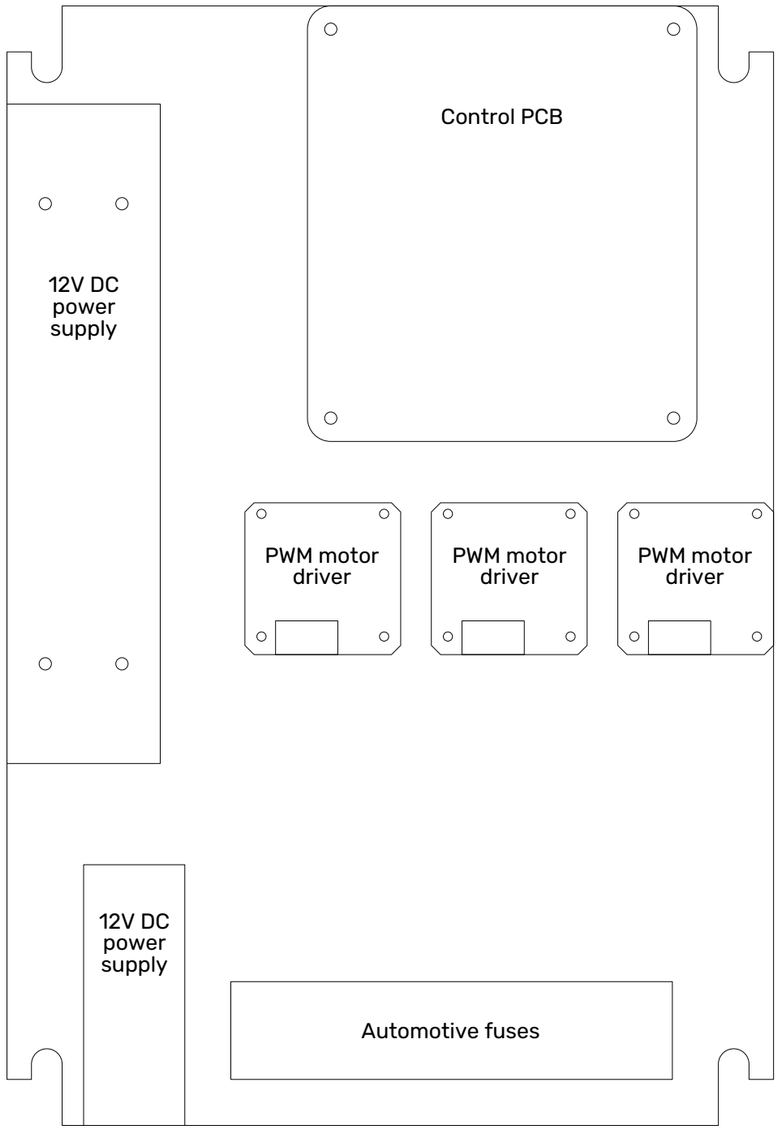
This diagram shows the system for the larger pulley frame.
The system for the smaller pulley frame is identical but with one less motor.

Project:	PULLEY FRAMES
Drawing title:	Wiring diagrams
Date:	26th October 2026
Drawn by:	nervoussquirrel.com
Revision:	0
Scale:	NTS All dimensions in mm
Sheet:	1 of 3

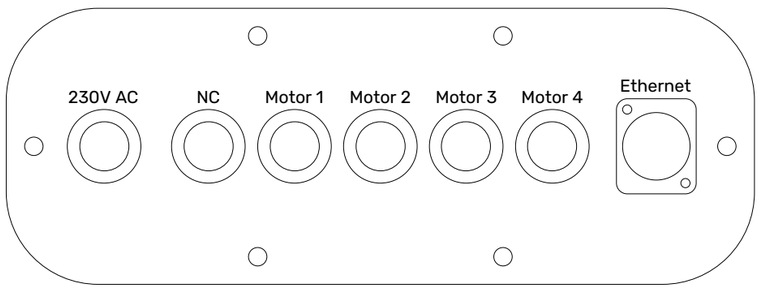
CONTROL BOX LAYOUT - LARGE PULLEY FRAME



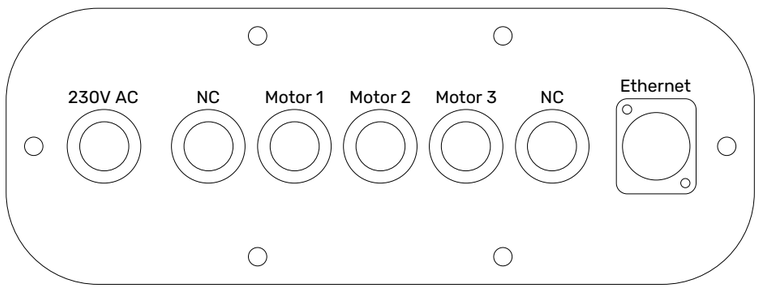
CONTROL BOX LAYOUT - SMALL PULLEY FRAME



CONTROL BOX CONNECTION PLATE - LARGE PULLEY FRAME



CONTROL BOX CONNECTION PLATE - SMALL PULLEY FRAME



Project:	PULLEY FRAMES
Drawing title:	Wiring diagrams
Date:	26th October 2026
Drawn by:	nervoussquirrel.com
Revision:	0
Scale:	NTS All dimensions in mm
Sheet:	2 of 3

Sparkfun ethernet adapter

J?
RJ45_LED_Shielded

TR?
B10601S

Optional NPN transistor board (typical single channel)
Used to control optocouplers for stepper drivers, relay boards etc.

J?
Conn_02x03_Counter_Clockwise

U1
Teensy4.1

SW1
SW_Push

SW2
SW_Push

SW1
SW_Coded_SH-7050

The PCBs have provision for up to 8 no. 4 channel transistor PCBs
(although the amount in use will vary from board to board)

nervoussquirrel.com

Sheet: /		
File: wtt_pcb_v2.kicad_sch		
Title: PCB for kinetic elements, board V2.0		
Size: A4	Date: 2026-04-28	Rev: 1
KiCad E.D.A. 10.0.1		Id: 1/1