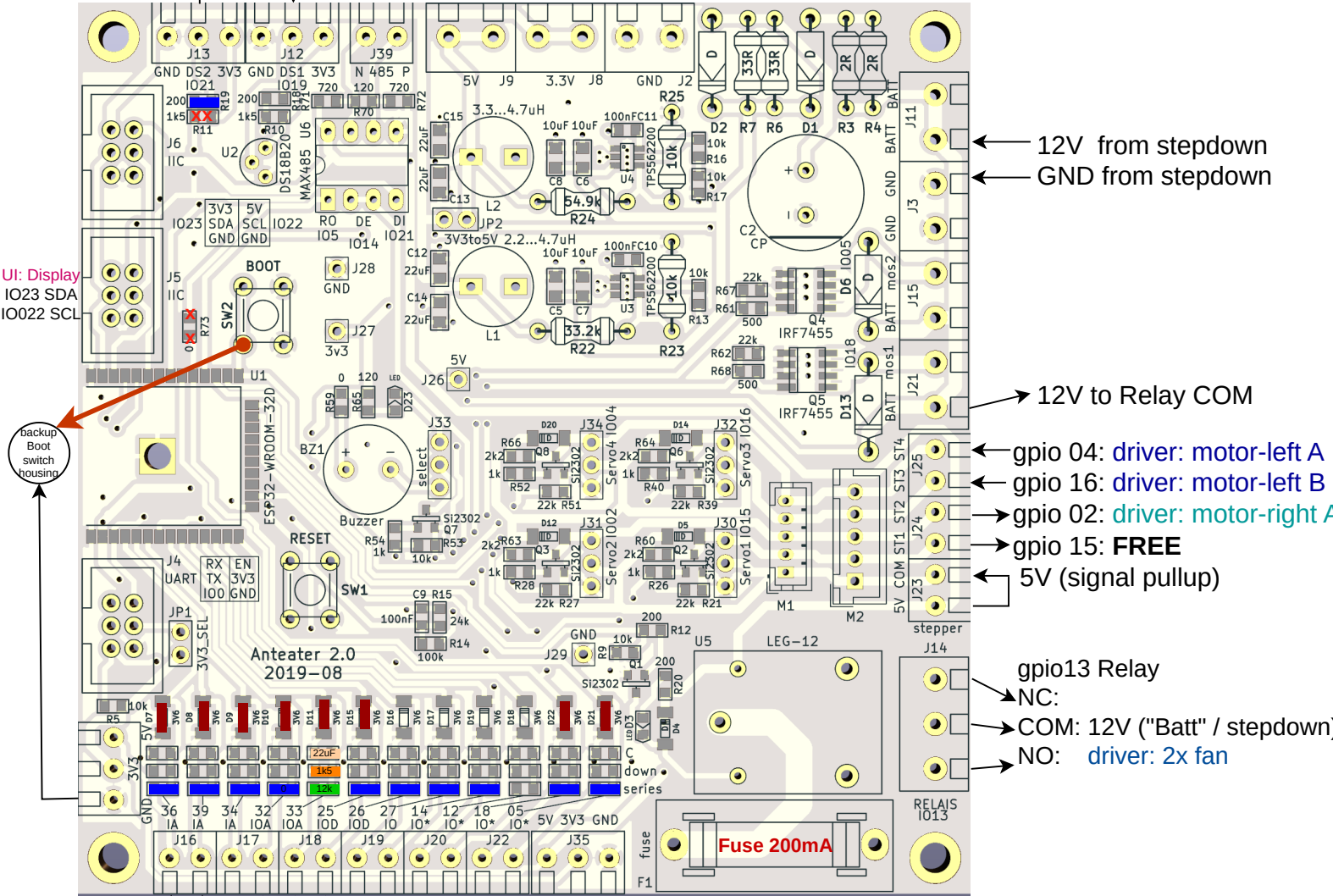


Connection plan pcb armchair-V2

14.08.2023

gpio19: driver box
ds18b20 temp sensors
(drivers, motors)

gpio21: FREE



UI: Display
IO23 SDA
IO22 SCL

Backup
Boot
switch
housing

- gpio 05: [MOS2] UI: encoder A
- gpio 18: [MOS1] UI: encoder B
- gpio 12: [LED/BUZZER]
- gpio 14: [RS485] driver: motor-right B
- gpio 27: driver: motor-right PWM
- gpio 26: driver: motor-left PWM
- gpio 25: UI: encoder switch
- gpio 33: ADC Battery voltage (stepdown) [29.4 -> 3.27V]
- gpio 32: ADC driver: Current sensor motor-right
- gpio 34: ADC driver: Current sensor motor-left
- gpio 39: ADC UI: Joystick X
- gpio 36: ADC UI: Joystick Y

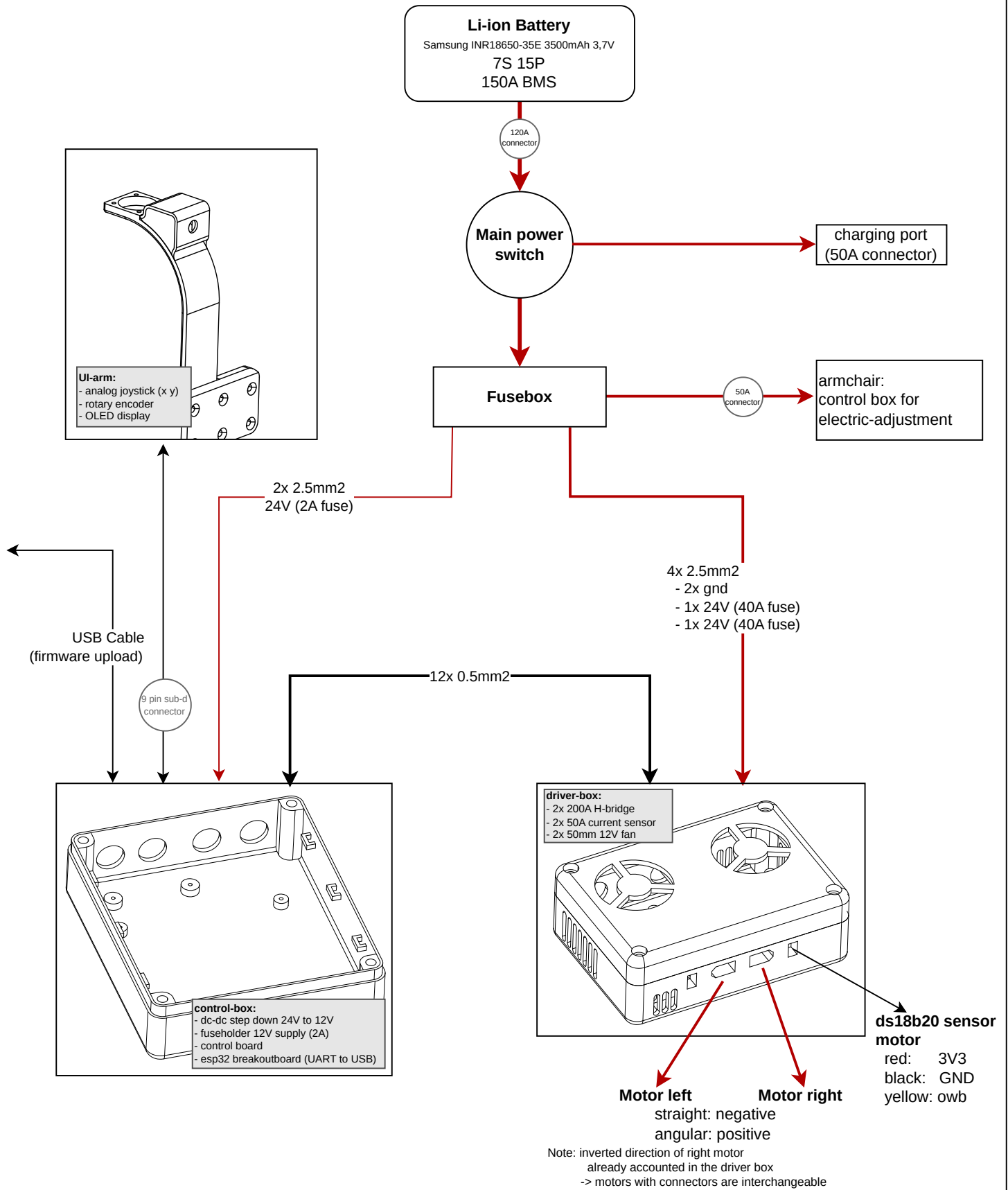
Legend pcb

- 0 Ohm Resistor
- 1.5k Ohm Resistor
- 3v3 Z-Diode
- 12k Ohm Resistor
- 1k5 Ohm Resistor

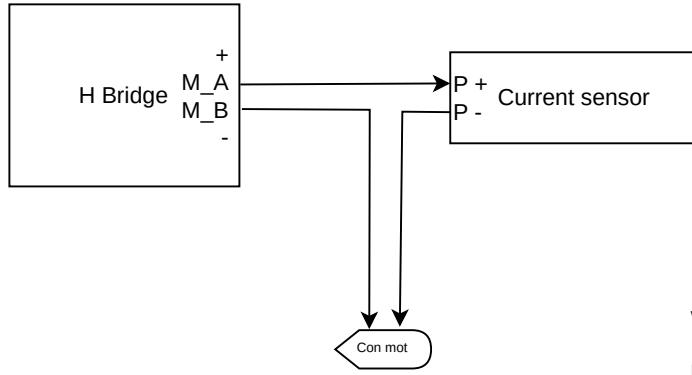
[xxx] Conflicting Component
xx nopop

cable configuration	
<p>control-box => driver-box</p> <p>Oelflex 12x0.5</p> <p>gn: GND 01-5V 01: 3V3</p> <p>02: bridge-left A 03: bridge-left B 04: bridge-left PWM</p> <p>05: bridge-right A 06: bridge-right B 07: bridge-right PWM</p> <p>08: current-sensor left 09: current-sensor right</p> <p>10: fan 12v from relay 11: ds18b20 owb</p>	<p>control-box => UI-arm</p> <p>D-Sub 9 pin</p> <p>green: GND red: 3V3</p> <p>brown: Joystick X purple: Joystick Y</p> <p>yellow: encoder A blue: encoder B black: encoder switch</p> <p>gray: display SDA orange: display SDC</p> <p>Joystick pinout</p> <p>JST connector 5 pin (pins stick order left to right)</p> <p>red: VCC (3V3) orange: GND brown: X (analog 0-3V) white: n.c. black: Y (analog 0-3V)</p>

Wiring-plan



Wiring-plan Driver-box



WIP

left and right side
same only connector
pins swapped

