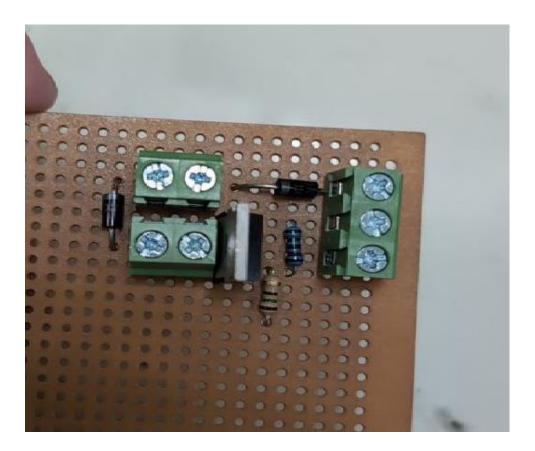
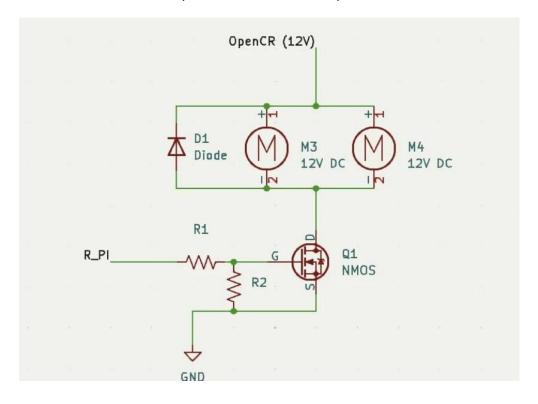
# Soldering set up:



Reference schematic (R1:  $10k\Omega$  R2:  $100k\Omega$ )



### Modifications not on diagram:

Added extra diode between OpenCR (12V) and Motors to protect circuit

## Components used:

#### 2x RS380SA motor



- Motor Type: RS380SA.
- Shaft Diameter: Ø2.3 mm.
- Shaft Type: Round.
- Shaft Length: 15mm.
- Input Voltage: 3~7.2VDC.
- Operating Current: 0.5A@6V.
- No Load Speed: 12,500RPM @ 6V.
  Rated Torque: 8mNm.
- Stall Torque: 50mNm.
- Output Power: 9W.
- Dimensions: Ø28 x 38 mm
- · Electrical Connection: Terminal.
- Weight: 70g.

#### 2x 1n4001 diode



# 2x 2pin screw terminal 1x 3pin screw terminal

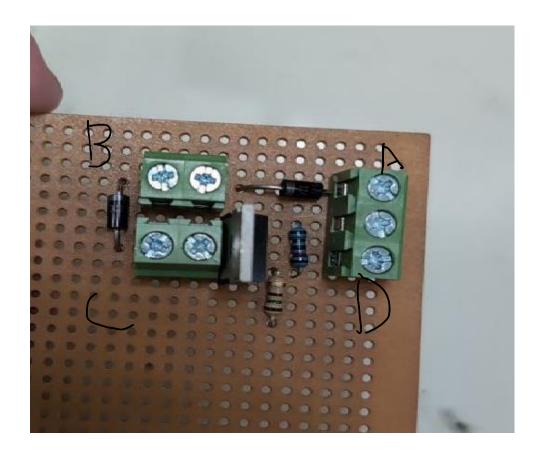


IRL3803 MOSFET

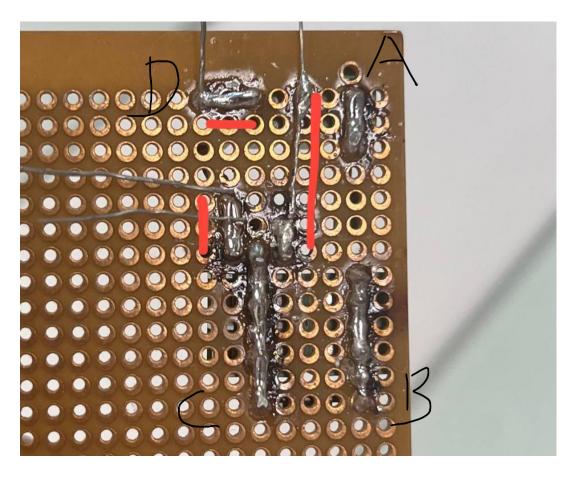


 $1x 100k\Omega 1x 10k\Omega$  resistors





Example soldering (refer to reference schematic):



## Connection:

