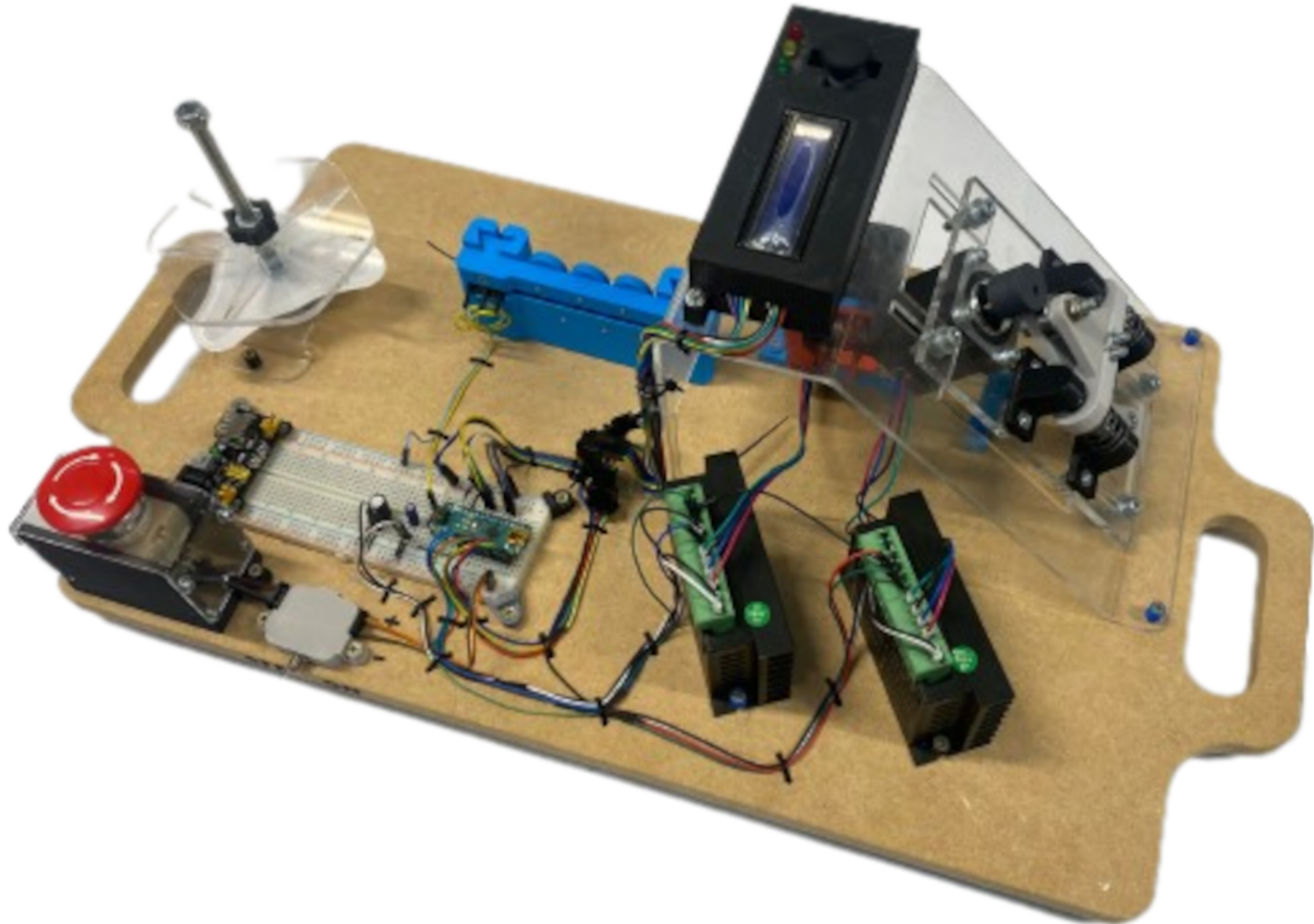
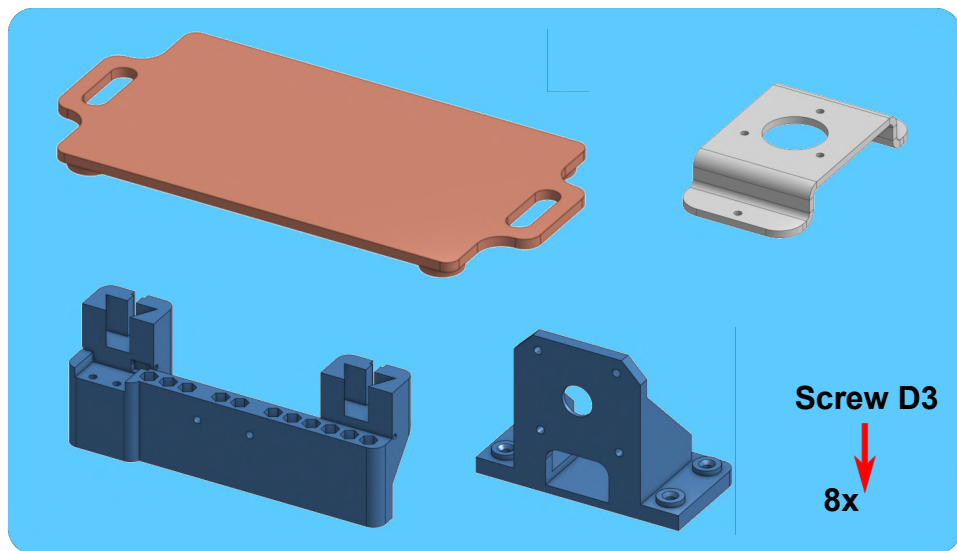


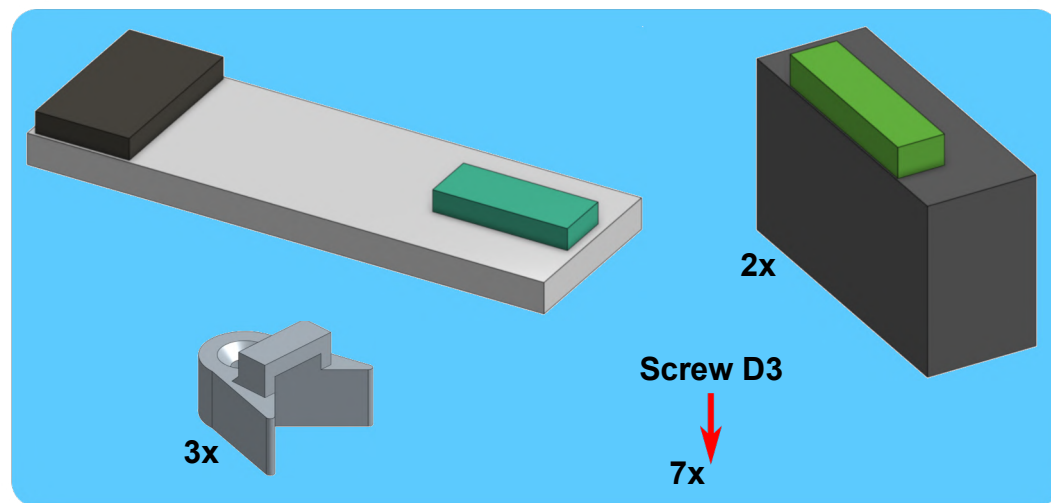
# USER MANUAL

## *PDP 12 - Jumper Machine*

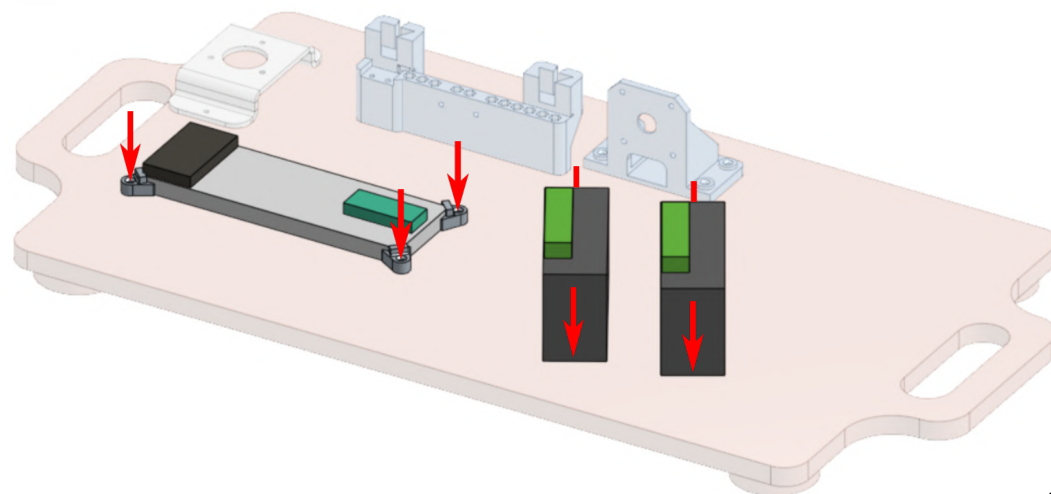
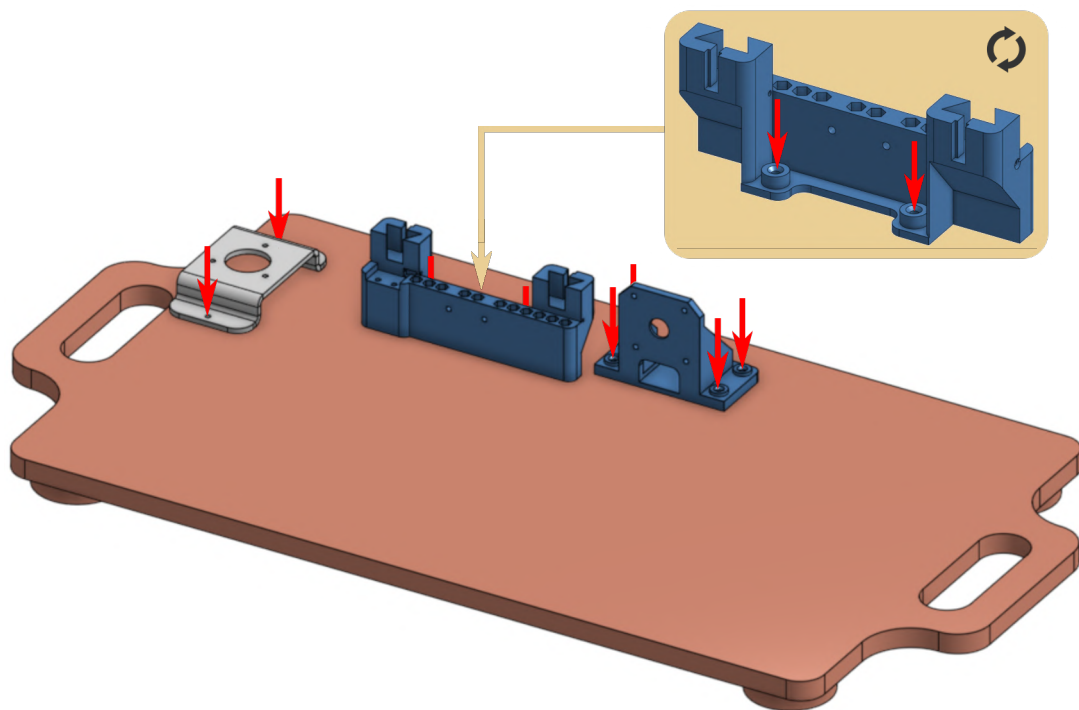




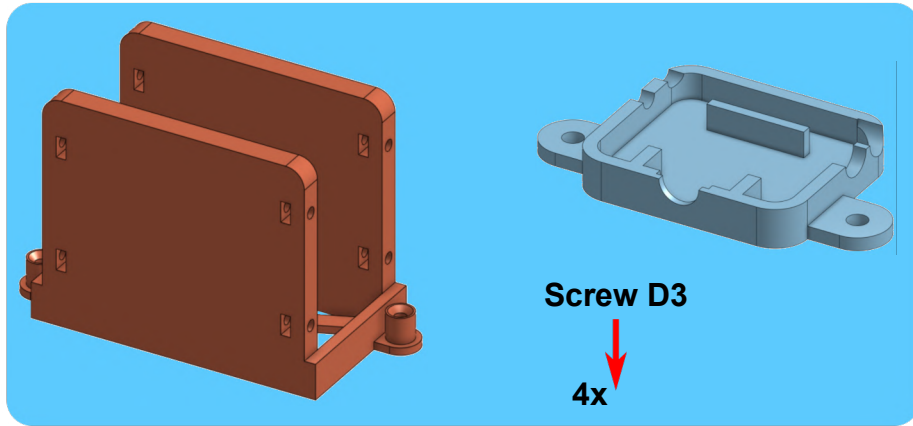
1



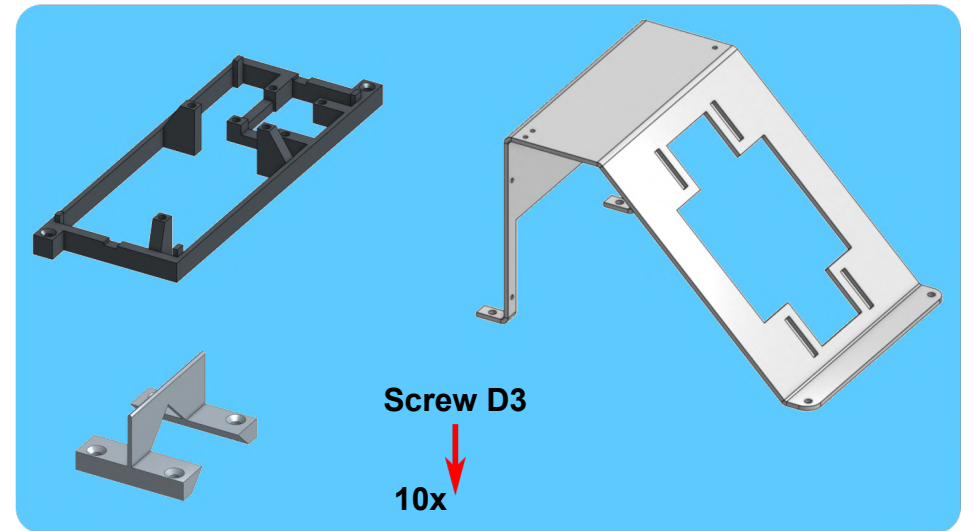
2



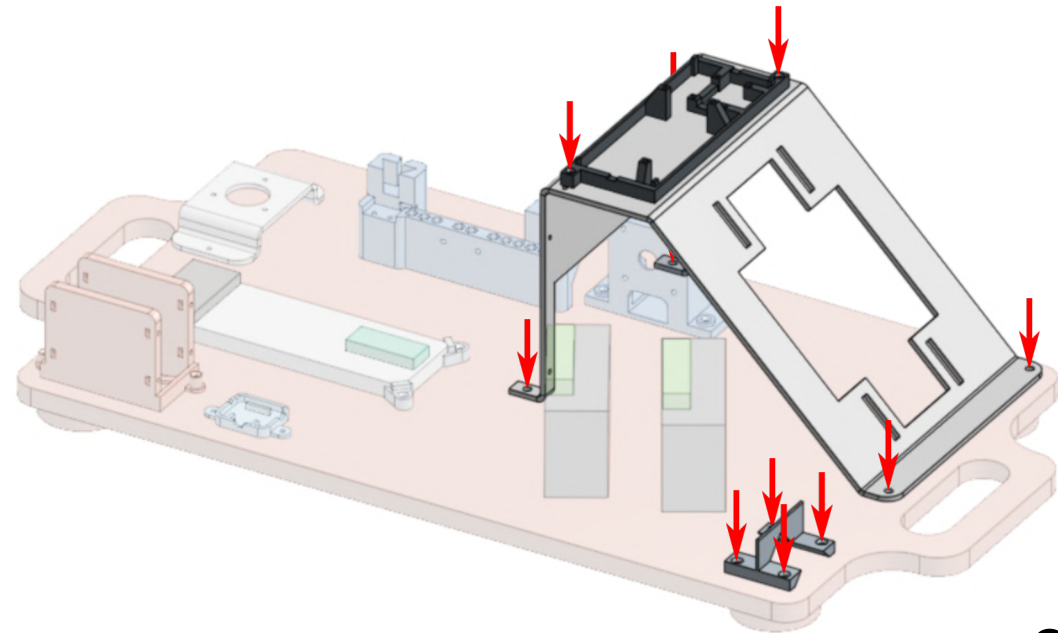
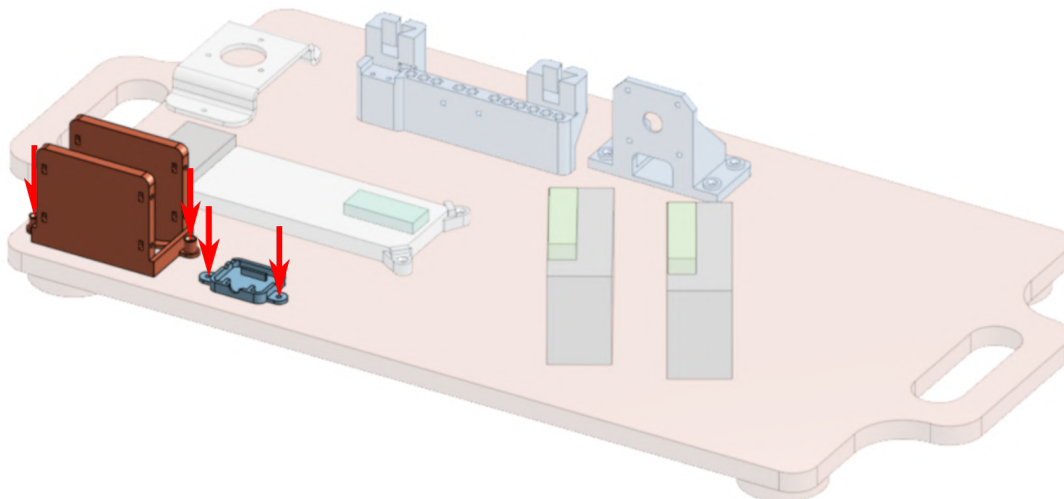
1



3

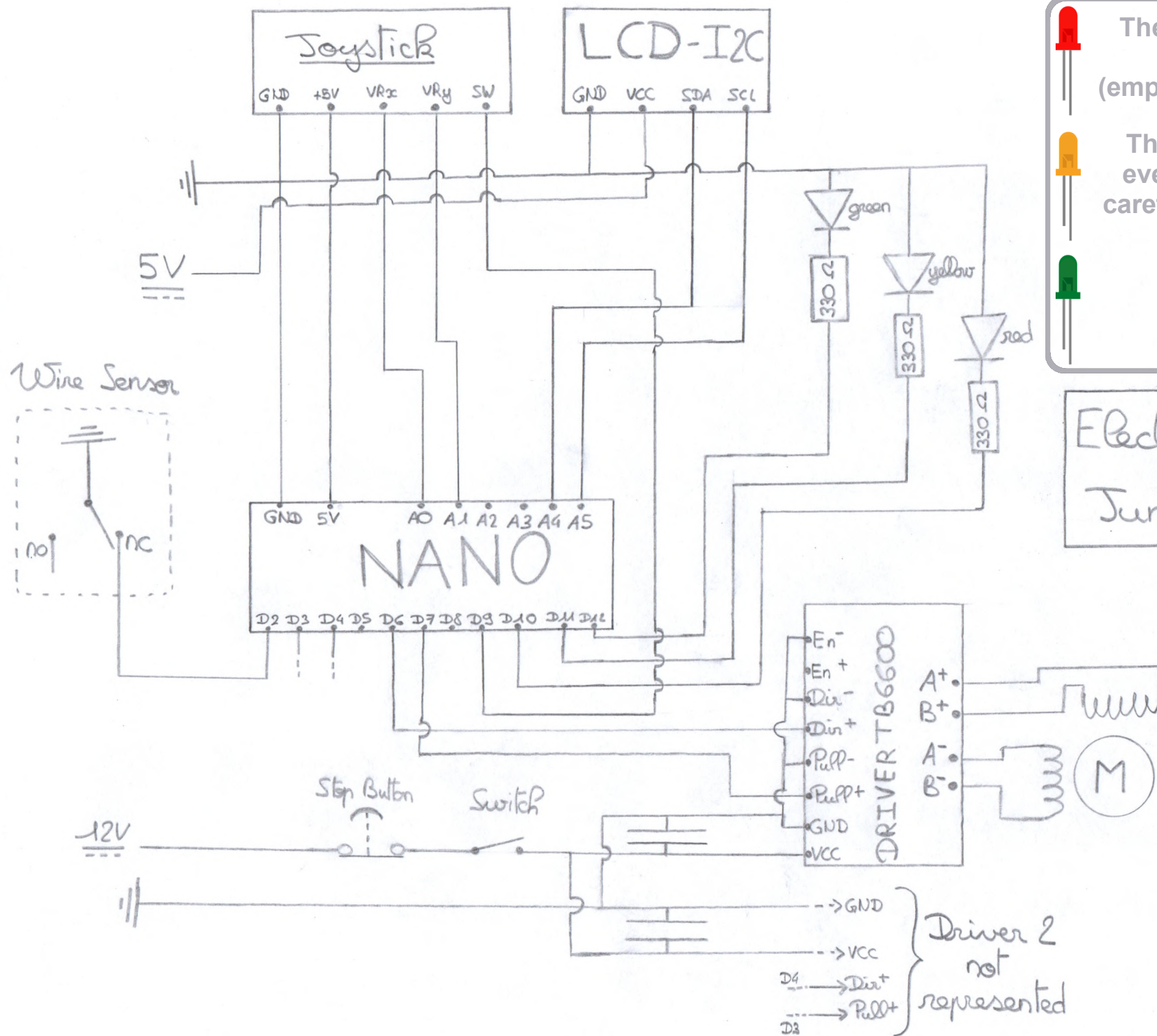



4





2





 The machine is no longer supplied with wire (empty spool or broken wire)

 The machine is running, everything works, but be careful because at least one motor is running

 The machine is on, everything works

Electrical Diagram  
Jumper Machine

Allow to change menu if the user is not executing a program or is changing values of a parameter.



Menu 4:  
program



Menu 3:  
Set denude



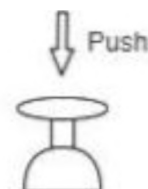
Menu 2:  
Long jumper



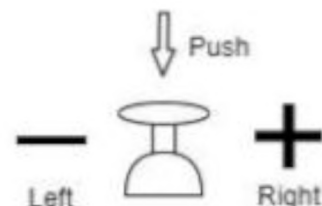
Menu 1:  
Nbr jumper



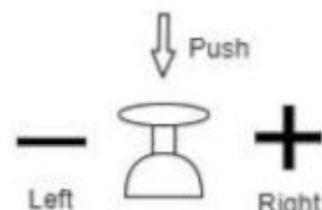
Menu 0:  
push wire



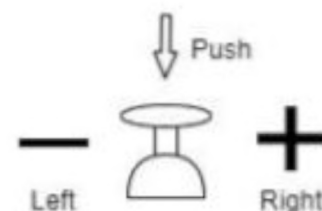
This menu will execute the program to cut and strip jumpers with all the parameters set in the other menus.



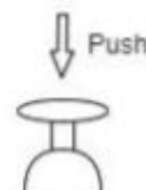
This menu allow to set manually the position of the blade for stripping, the more the joystick is moved in a direction, the more steps the stepper will do.  
The push allow to enter and exit the changing mode.



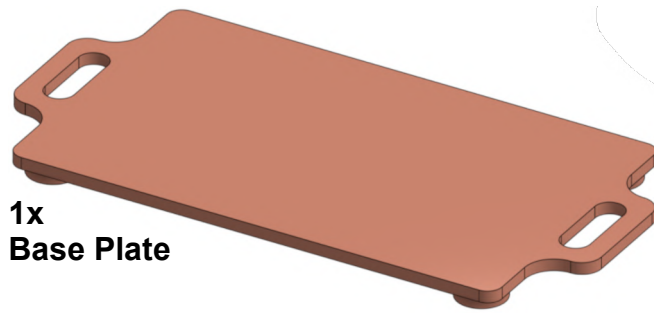
This menu allow to change the length of the jumpers by the numbers of pins it will cover, changing the number by an increment of 1 with the joystick from left to right, 3 being the minimum number and 20 the maximum.  
The push allow to enter and exit the changing mode.



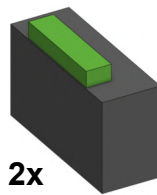
This menu allow to change the number of jumper the program will cut, changing the number by an increment of ten with the joystick from left to right, 1 being the minimum number.  
The push allow to enter and exit the changing mode.



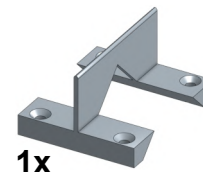
This menu allow to extrude the wire from the extruder to the blade with one push.



1x  
Base Plate



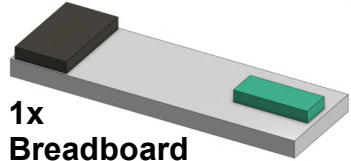
2x  
Driver



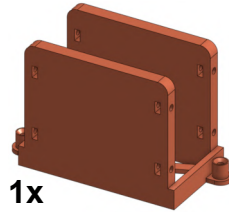
1x  
Jumper Remover



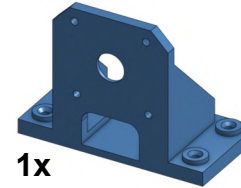
3x  
Tie



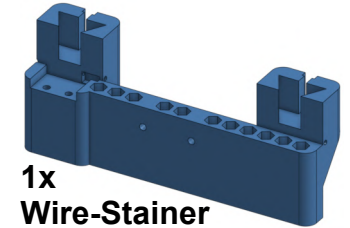
1x  
Breadboard



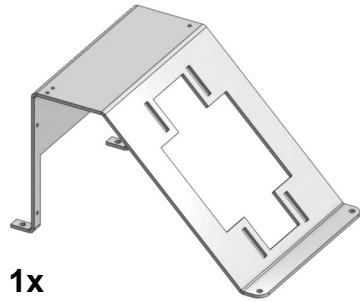
1x  
Emergency Stop Button



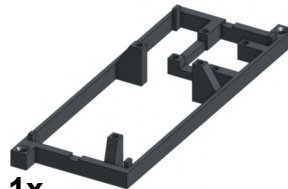
1x  
Motor Support



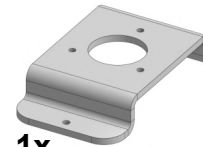
1x  
Wire-Stainer



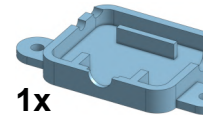
1x  
Cutting Support



1x  
Human-Machine Interface



1x  
Reel Support



1x  
Switch



29x  
Screw D3



## More Instructions



- 1) connect the **power cable** to the **arduino board**
- 2) connect the **5A power supply** to the **emergency stop button**
- 3) check that the **emergency stop button** is up
- 4) turn on the **arduino board**
- 5) turn on the **switch**