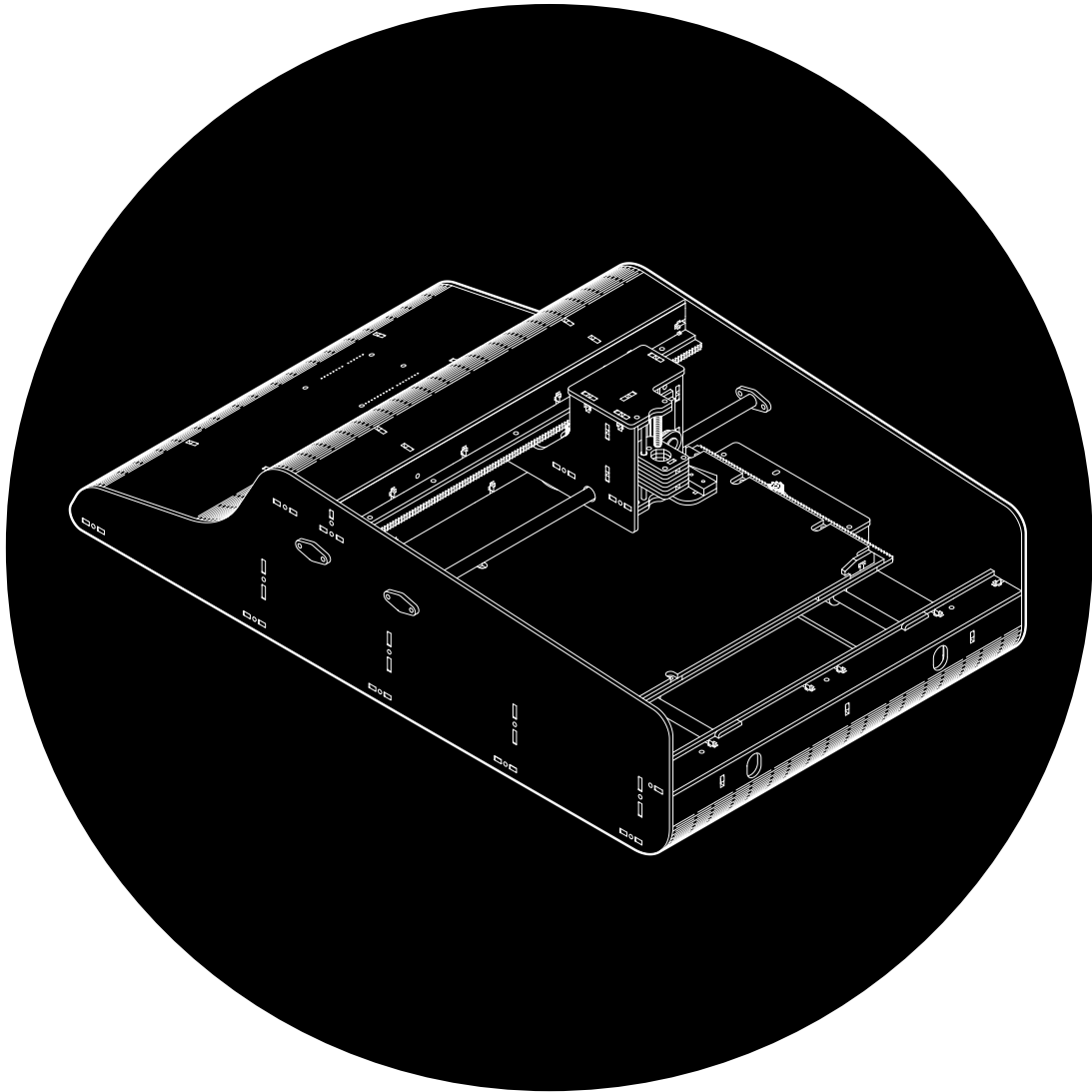


beta version

# lettera



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XY plotter

Special thanks to Officine Arduino, Fablab Torino

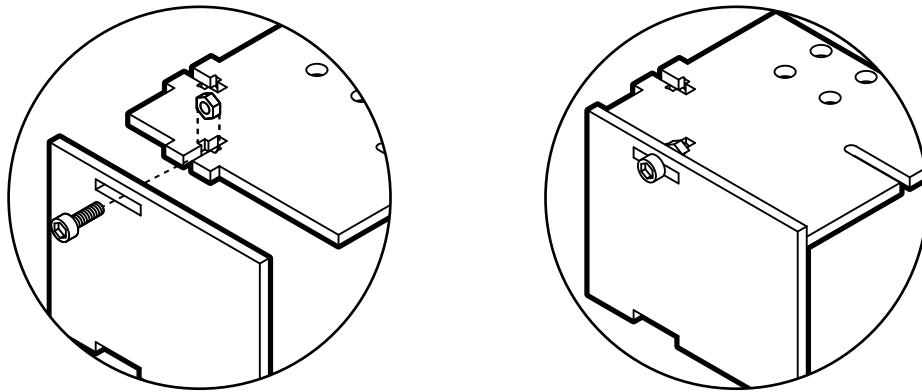
Designed by Pietro Leoni



# CONNECTIONS AND COMPONENTS

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beta version



Many of the connections in this model are based on T joints, this allows to easily remove and replace individual parts.

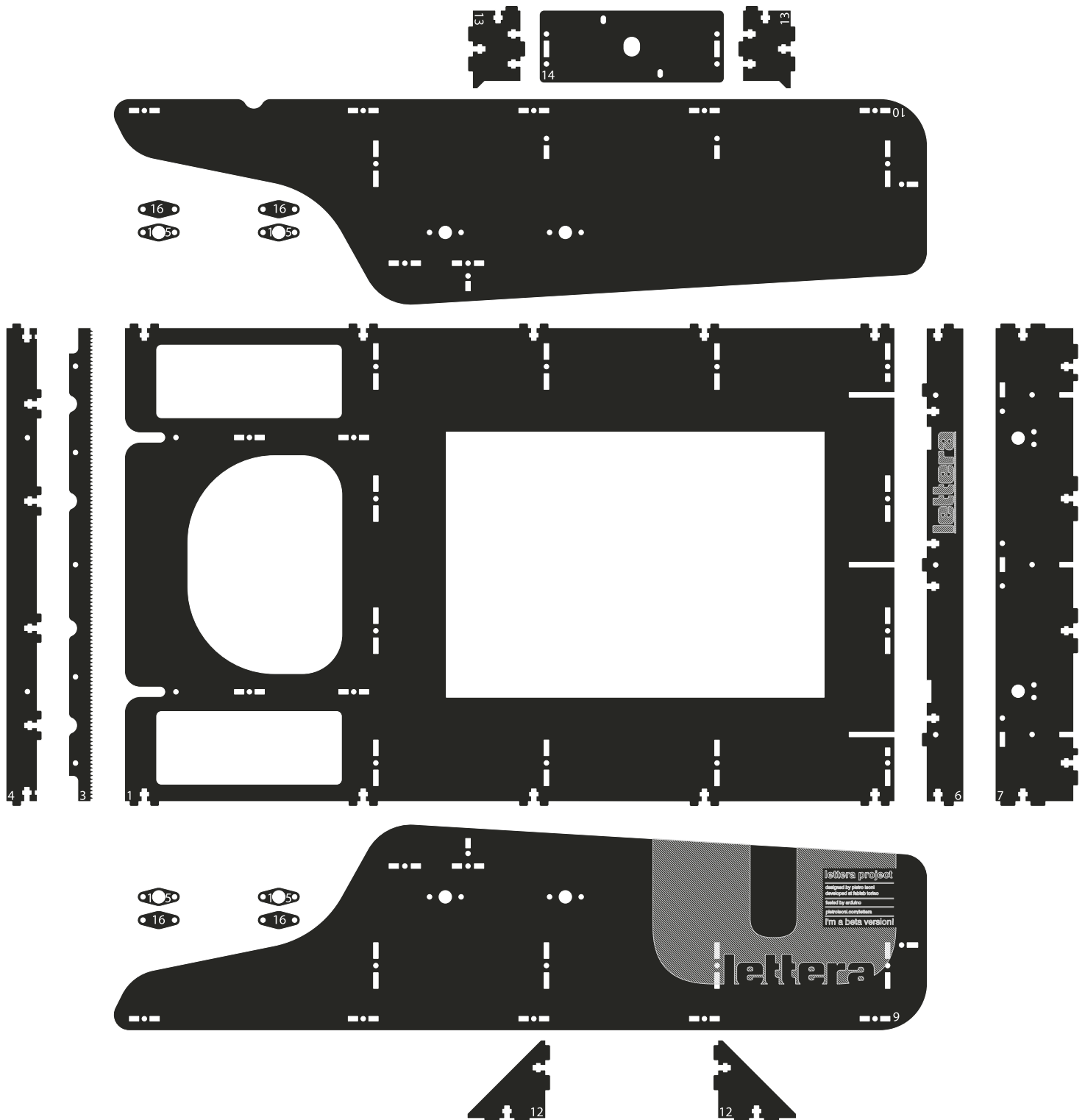
## #PARTS LIST

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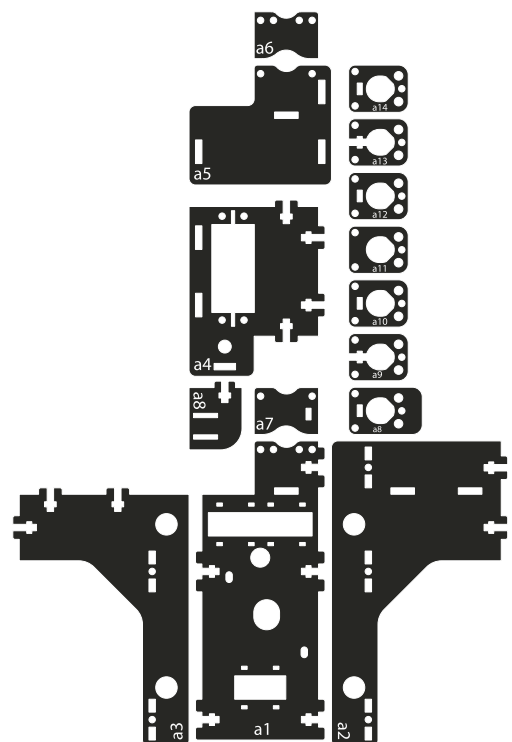
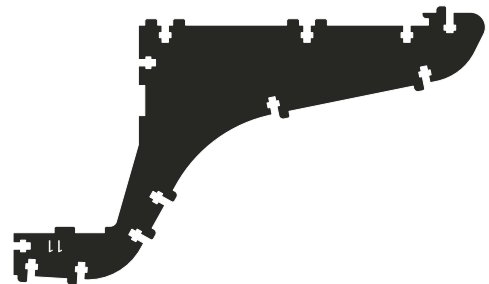
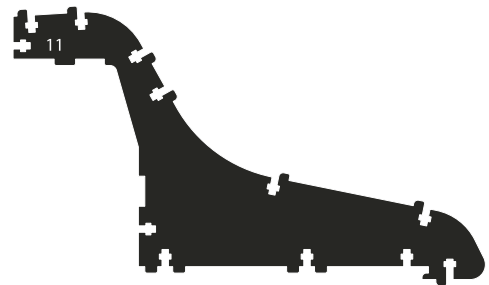
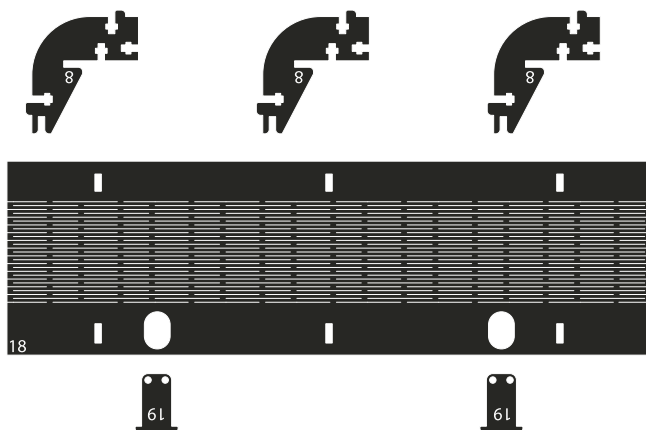
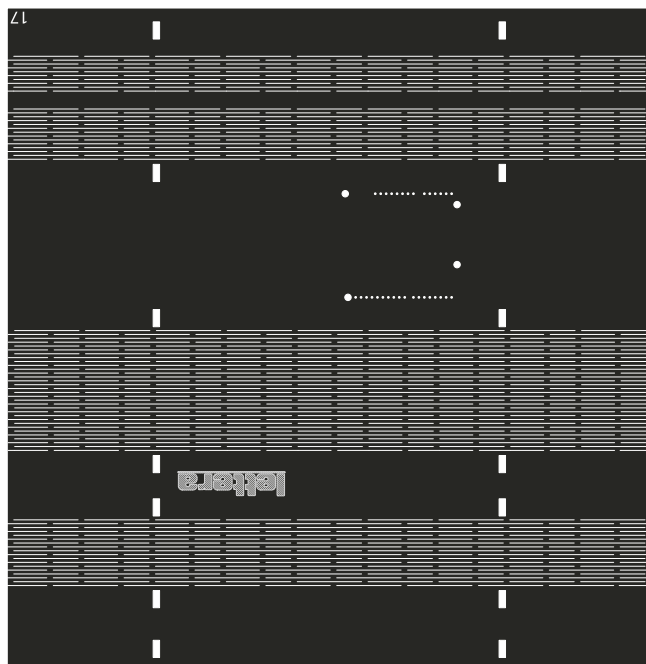
- |     |  |
|-----|--|
| #1  | Phidgets 3314_0 - 950g-cm Unipolar Stepper. (x2)                                     |
| #2  | Seed Studio general shaft joint -p3. (x2)  |
| #3  | 3mm steel bar. (x2)  |
| #4  | Spring, inner diameter >3mm.   |
| #5  | LM8UU linear bearings. (x7)  |
| #6  | Hitech standard servo, able to operate at 5V.  |
| #7  | Microswitch. (x2)  |
| #8  | Cylindrical profile. 3,1mm internal diameter, 4mm outer diameter. Length 21 mm. (x2) |
| #9  | 8mm steel bar. (x2)  |
| #10 | 8mm steel bar. (x2)  |
-

# PLANS

Material thickness for lasercut components: 3mm.

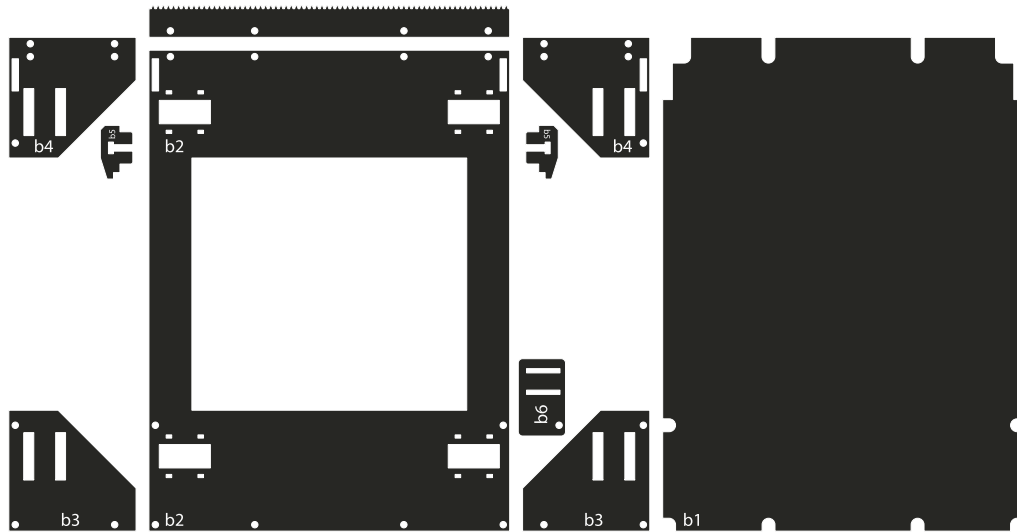


# PLANS



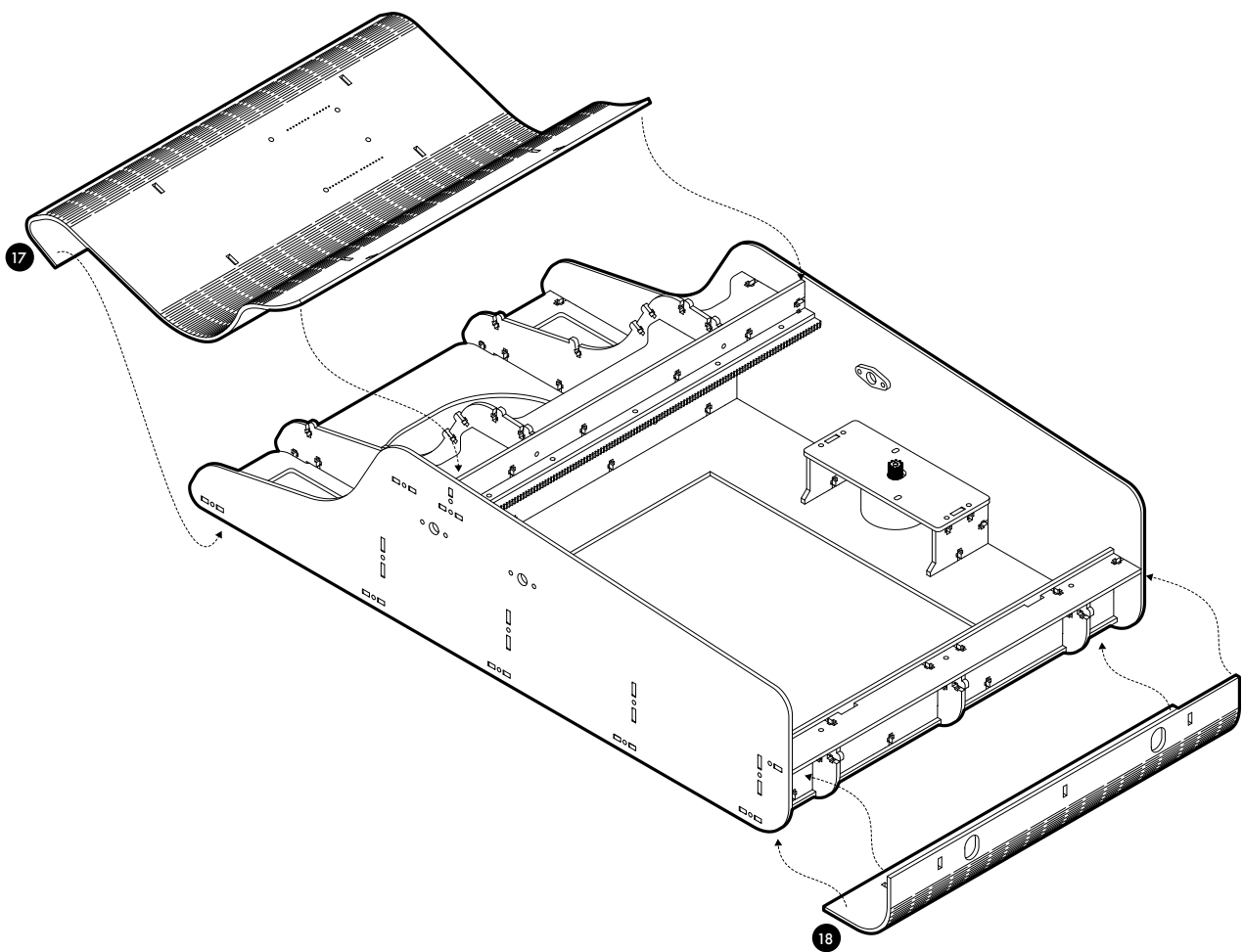
# PLANS

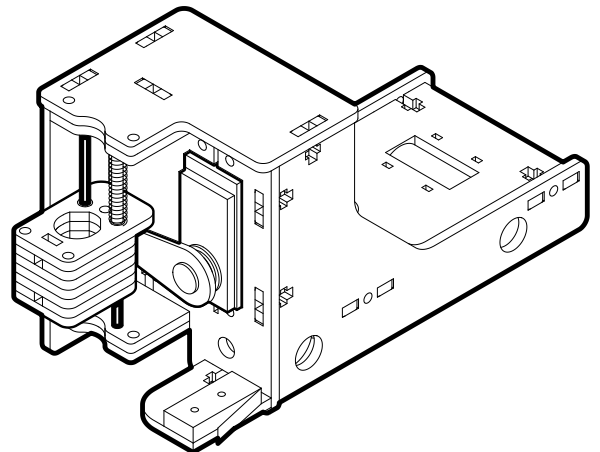
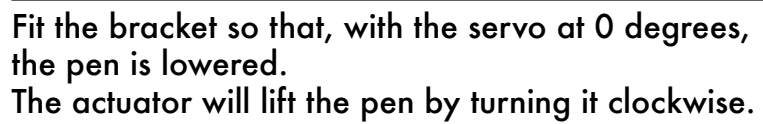
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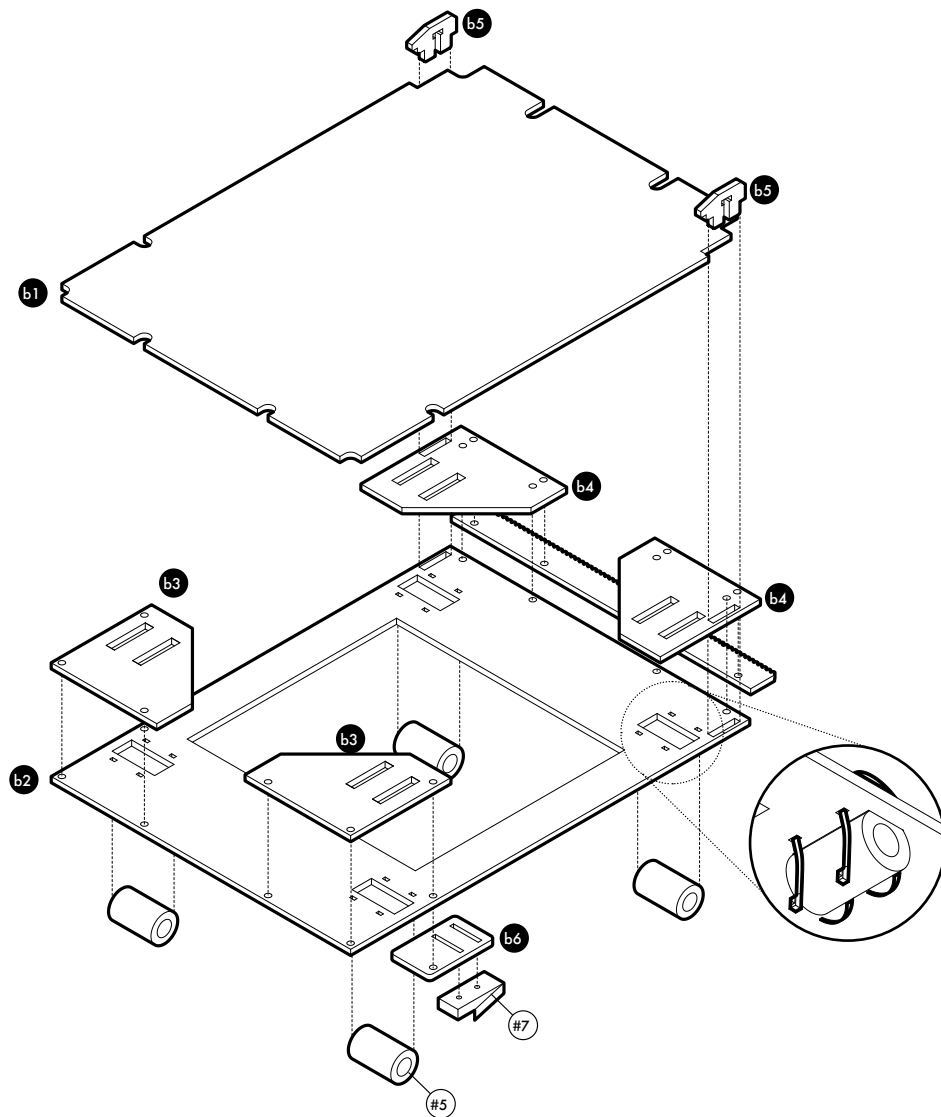
# CHASSIS







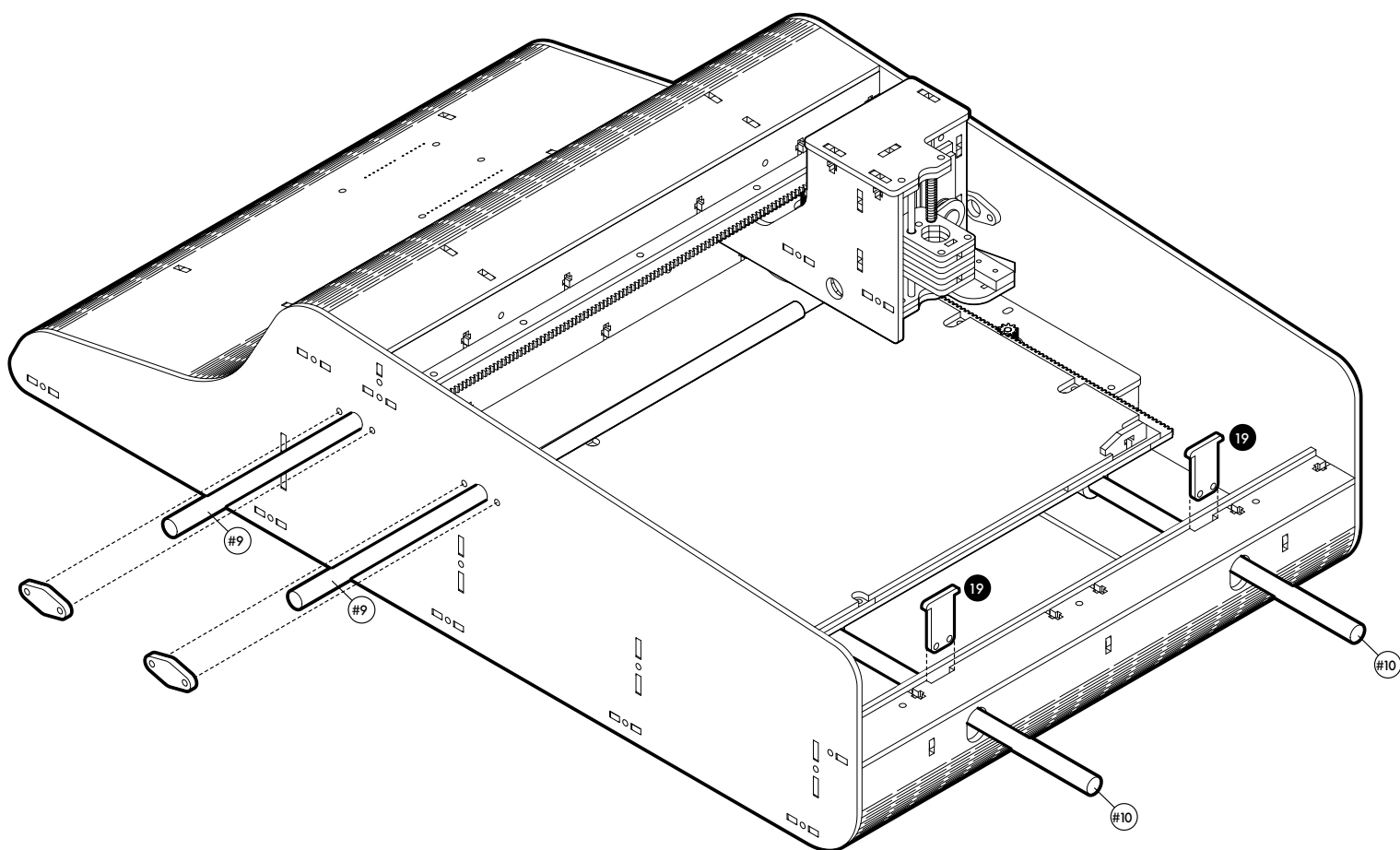
# PRINTING PLANE



# AXES

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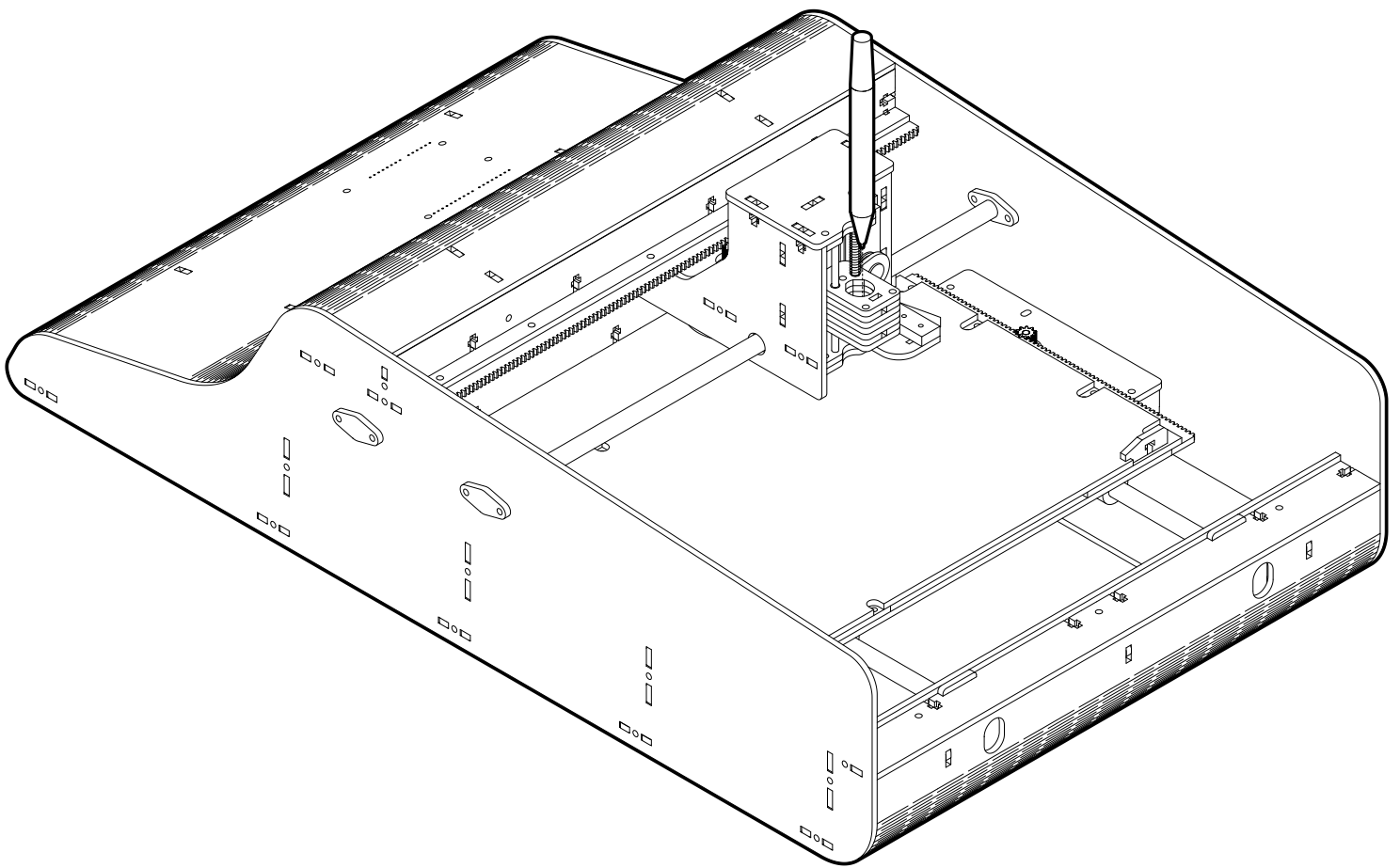
beta version



# PEN

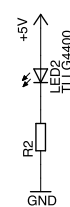
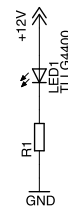
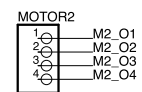
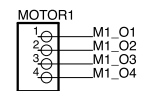
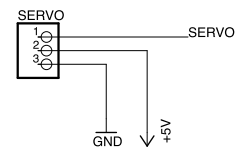
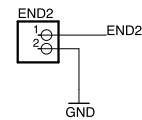
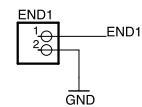
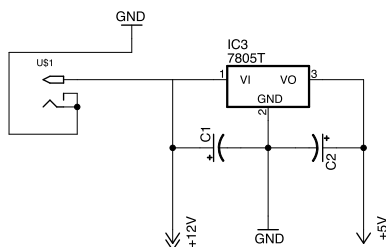
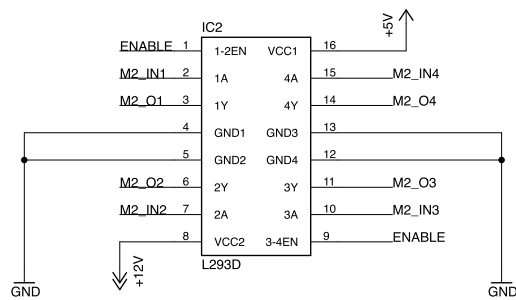
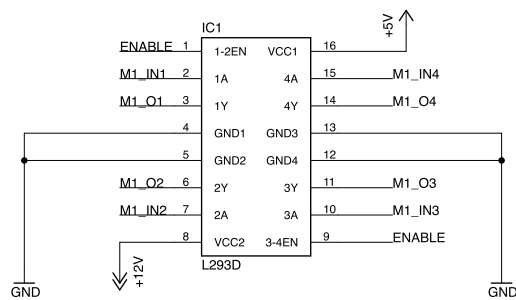
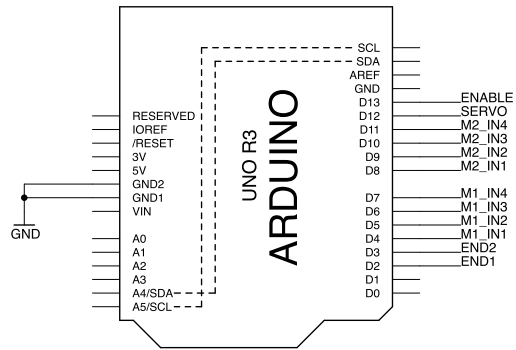
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beta version



# HARDWARE

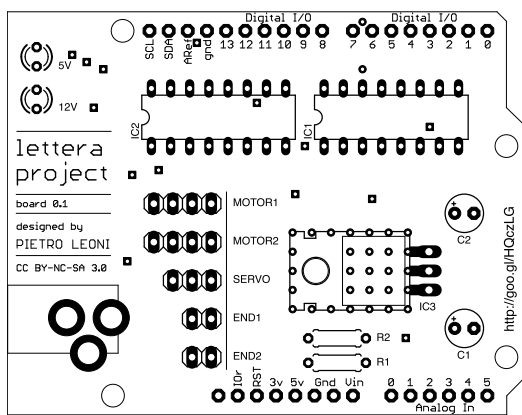
## schematics



# HARDWARE

You can realize the electronics on an Arduino ProtoShield (same footprint) or order this shield  
osh park:

**[goo.gl/S0Sn1k](http://goo.gl/S0Sn1k)**



## Parts value

C1	470uf capacitor
C2	100 nf capacitor
END1	2pin male header
END2	2pin male header
IC1	L293D
IC2	L293D
IC3	7805T
LED1	LED 3mm
LED2	LED 3mm
MOTOR1	4pin male header
MOTOR2	4pin male header
R1	1k resistor
R2	1k resistor
SERVO	3pin male header
12 V DC IN	coaxial power connector

# WIRING

