

3D PRINTED DIY 3 AXIS



CAMERA SLIDER



Well, hello and thank you for downloading files to create my DIY 3D printed 3 axis camera slider!
In these instructions I have done my best to explain the assembly process and electronics, however I would suggest that this is not a beginner project! I have made a suggestions for the electronics, however experience required to complete the electronics.

Regarding the creative commons license - Feel free to share, remix and build as you will so long as you reference the following into your posting/share:

Project created by Myles at NewTechCreative 2021
YouTube Chanel: <https://www.youtube.com/channel/UCROCWhGcdRSwRNmuOSTrIjg>
Email: newtechcreative@gmail.com

ENJOY THE BUILD :) AND PLEASE SHARE YOUR CREATIONS WITH ME AT newtechcreative@gmail.com



HARDWARE

ITEM	QUANTITY	ITEM	QUANTITY
A 16mm M4 round head screws with M4 lock nut	8	G 25mm M5 flat head screw	8
B M3 12mm Stepper motor socket screws	12	H 30mm M5 low profile Screw with hex nut	4
C 16mm M4 round head screws with M4 lock nut	4	I 1/4" threaded heat set insert	2
D 25mm M8 Screw with Lock nut	1	+ M1.4 screw with nut for bevel gear	1
E 90mm/100mm M5 socket screw with Lock nut	4	+ Tiny screw for elec box (6.5mm or less)	1
F 50mm M5 socket screw with lock nut	6	+ 8020 v-slot aluminium extrusion to suit your build	1

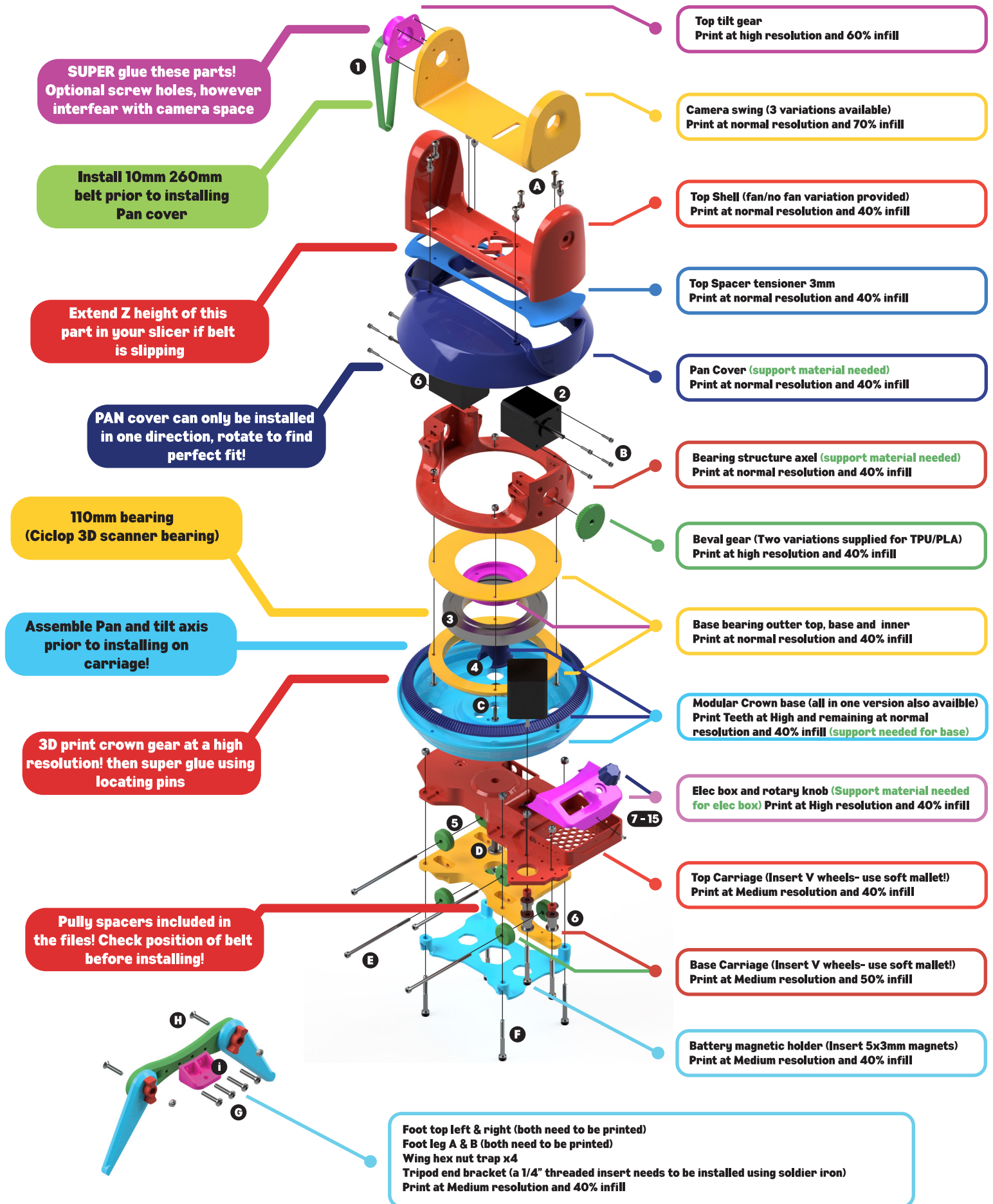


ELECTRONICS

ITEM	QUANTITY	ITEM	QUANTITY
1 Closed loop Belt 10mm 2GT 260mm	1	9 Arduino MEGA pro	1
2 NEMA17 Stepper motor 1.7 amp	3	10 TMC2209 Stepper driver	3
3 Deep groove ball bearing 70x110x13	1	11 10uF 25V Capacitor	5
4 12.5mm 12ch 2A Capsual slip ring	1	12 LM7805 voltage regulator	1
5 Polycarbonate V-slot mini wheel 625zz	8	13 Limit switch	1
6 16Teeth GT2 5mm bore Pulley	4	14 DC Jack socket female panel mount	1
7 1.3 Inch OLED Module White 128x64 IIC I2C SPI	1	15 12v rocker Switch KCD11	1
8 360 degree rotary encoder KY040	1	16 24 guage wire, proto board, soldier, connectors	-



ASSEMBLY

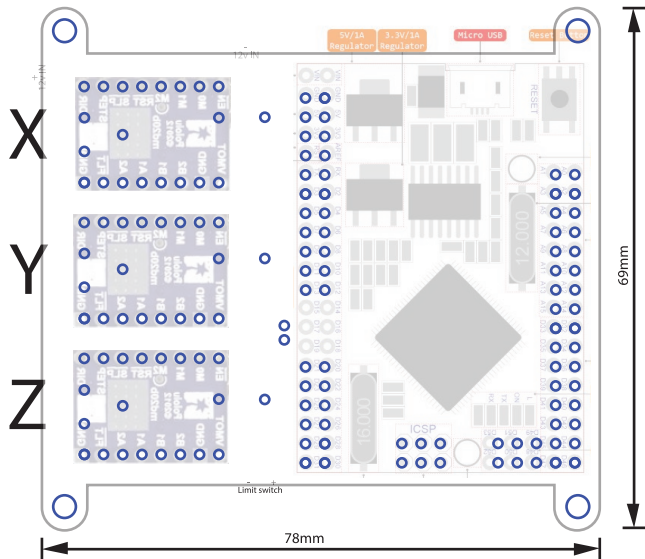


DISCLAIMER:

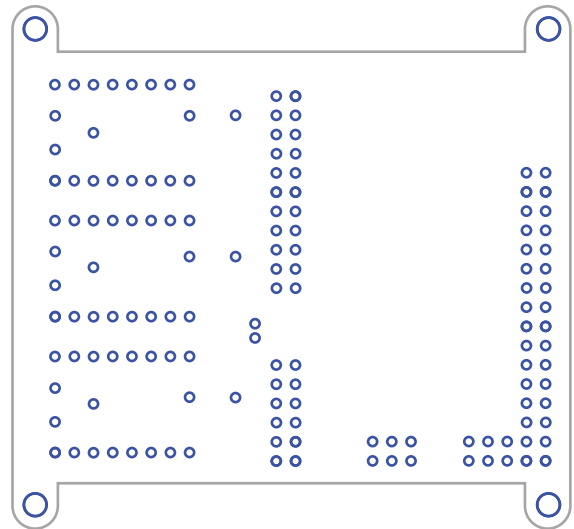
Please use as your own risk as I am not responsible for shorting components or any harm cause by following this project. Please check thoroughly before use.
This is a suggested layout and may require refining.

As for the 12v to 5v conversion to power Arduino MEGA Pro, research 'voltage regulator 12v to 5V circuit' for setup with the LM7805 voltage regulator.

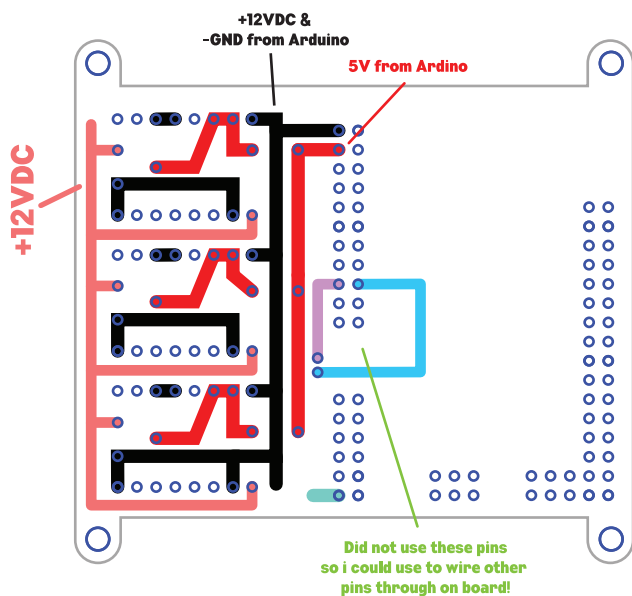
PIN/COMPONENT VIEW



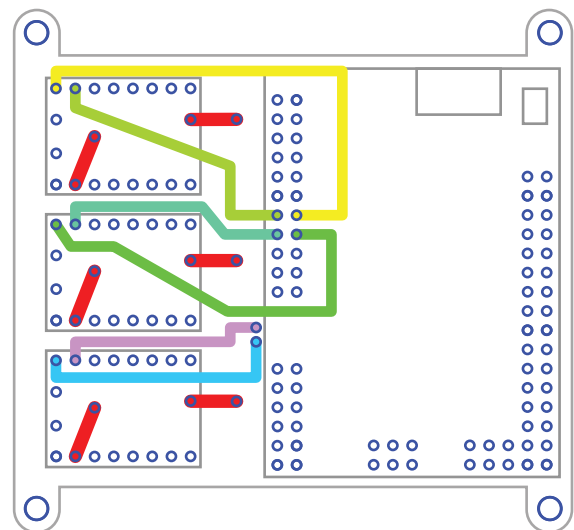
PIN VIEW



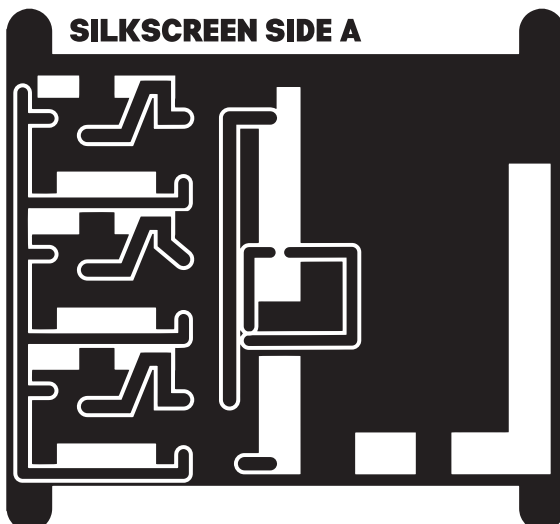
SIDE A VIEW (TOP)



SIDE B VIEW (From top view!)



SILKSCREEN SIDE A



SILKSCREEN SIDE B

