Tungsten V3 - Below are the items I made use of for the build.

|  |  |  |
| --- | --- | --- |
|  | Arduino Nano | <https://item.taobao.com/item.htm?id=42296011350&_u=11p5mvl5804c> |
|  | Voltage sensor module (to find current voltage of lipo to make calculation of ROF voltage) | <https://detail.tmall.com/item.htm?id=520840133787&_u=11p5mvl56d66> |
|  | 104 Capacitor 104P 0.1UF 100NF 50V  (to filter electric noise produced by DC motors) | <https://detail.tmall.com/item.htm?id=41231794779&toSite=main> |
| https://gd4.alicdn.com/imgextra/i2/1021106405/TB23omKnpXXXXXFXpXXXXXXXXXX_!!1021106405.jpg_400x400.jpg | Capacitor (not necessary if you use the above 104 capacitor) | <https://item.taobao.com/item.htm?id=550154253403&_u=11p5mvl57d22> |
|  | DuPont head | <https://item.taobao.com/item.htm?id=522555619895&_u=11p5mvl5e51d> |
|  | DuPont male head | <https://item.taobao.com/item.htm?id=19134756118&_u=11p5mvl59db9> |
|  | DuPont male head | <https://item.taobao.com/item.htm?id=545659568533&_u=11p5mvl53d4b> |
| https://gd4.alicdn.com/imgextra/i3/2658592015/TB2DQZyb.gQMeJjy0FjXXaExFXa_!!2658592015.jpg | Jumper wire | https://item.taobao.com/item.htm?id=558182761958&\_u=91p5mvl51c8f |
| https://gd1.alicdn.com/imgextra/i3/2658592015/TB2V_I.ayIRMeJjy0FbXXbnqXXa_!!2658592015.jpg_400x400.jpg | A3144 Hall effect | https://item.taobao.com/item.htm?id=522576336265&\_u=91p5mvl58336 |
| https://gd1.alicdn.com/imgextra/i3/1583522117/TB2i1lIe.FWMKJjSZFvXXaenFXa_!!1583522117.jpg_400x400.jpg | IRL40B209 N Channel mosfet | <https://item.taobao.com/item.htm?id=542576347605&_u=11p5mvl5b36d> |
|  | Yellow + blue OLED display | <https://item.taobao.com/item.htm?scm=1007.11855.31966.100200300000006&id=43639171586&pvid=c4007019-2211-400d-ae82-9ab41a2e6cb1> |
| https://gd1.alicdn.com/imgextra/i2/431191585/TB23lq3nXXXXXcHXpXXXXXXXXXX_!!431191585.png | 3 way switch | <https://item.taobao.com/item.htm?id=7872994394&_u=11p5mvl5aa1e> |
| https://gd3.alicdn.com/imgextra/i1/2448388192/TB28TM8uFmWBuNjSspdXXbugXXa_!!2448388192.jpg | Rotary Encoder with push button | <https://item.taobao.com/item.htm?id=558212521522&_u=11p5mvl5c1e8> |
| https://gd3.alicdn.com/imgextra/i1/132136629/TB22oNLhgLD8KJjSszeXXaGRpXa_!!132136629.jpg | Small micro switch | https://item.taobao.com/item.htm?id=546834080946&\_u=91p5mvl50ff5 |
| å°è¹åå¼å³ ç¿æ¿è¹å½¢çµæºå¼å³æé® 8.5*13.5mm 250VAC 3A 2èä¸¤æ¡£ | On/off micro switch 8.5X13.5mm | https://detail.tmall.com/item.htm?id=20857367959&\_u=91p5mvl5c067 |
| å¼ºåç£é20*10*1mm é¿æ¹å½¢èçç£éå¼ºç£ ééç¡¼å¼ºç£å¸éç³ é¿æ¡ | 20 X 10 X 1 mm magnet  20 X 5 X 2 mm  30 X 5 X 3 mm | <https://detail.tmall.com/item.htm?id=533277016746&_u=11p5mvl50c4f>  <https://detail.tmall.com/item.htm?id=533974662400&_u=11p5mvl55be1>  <https://detail.tmall.com/item.htm?id=533200939002&_u=11p5mvl51aa2> |
|  | 20cm barrel | <https://item.taobao.com/item.htm?spm=a1z09.2.0.0.2ed6e797XsdCh0&id=542111980772&_u=61p5mvl55610> |
| https://gd2.alicdn.com/imgextra/i3/1916516354/TB2QRNQbr1YBuNjSszhXXcUsFXa_!!1916516354.jpg_400x400.jpg | screw | https://item.taobao.com/item.htm?id=520844412331&\_u=11p5mvl5956c |
| https://gd3.alicdn.com/imgextra/i2/2579477405/TB2FrgRB4SYBuNjSsphXXbGvVXa_!!2579477405.jpg_400x400.jpg | grip | https://item.taobao.com/item.htm?id=544007064870&\_u=11p5mvl5265e |
| https://gd1.alicdn.com/imgextra/i1/1021106405/TB2vgV.gCB0XKJjSZFsXXaxfpXa_!!1021106405.jpg_400x400.jpg | Flywheel cage and wheel | https://item.taobao.com/item.htm?id=550007639635&\_u=11p5mvl556f5 |
| https://gd2.alicdn.com/imgextra/i1/2579477405/TB2iP2BnHXlpuFjSszfXXcSGXXa_!!2579477405.jpg_400x400.jpg | Inner barrel | https://item.taobao.com/item.htm?id=549870978342 |
| New Tactical Mini Red Dot Scope EX 182 Element SeeMore Railway C-MORE Reflex Sight Red Dot Sight 6 Color Optics | Red dot sight | Just search on Aliexpress “C-more Red Dot sight” |
|  | Dean connector | <https://item.taobao.com/item.htm?id=2003313604&_u=11p5mvl5c4de> |
|  | Turnigy Graphene 1500mAh 3S 65C LiPo Pack W/ XT60 | <https://hobbyking.com/en_us/graphene-1500mah-3s-65c-w-xt60.html> |
|  | Hobbywing 1060 Brushed ESC | Cannot find link |

I was unable to locate some of the seller for some items, they seems to have stop selling the items.

I bought most of my part from China site, I believe most part should also be available on site such as amazon, ebay, etc

There are more basic items such as pin connectors, etc.

Article on Dealing with Motor Noise:

<https://www.pololu.com/docs/0J15/9>

Other Useful Tools

|  |  |  |
| --- | --- | --- |
|  | Crimper - engineer PA-90 | <https://world.taobao.com/item/9117898770.htm?fromSite=main&_u=t2dmg8j26111> |