

Resin Printing Parts for the USS Liscome Bay



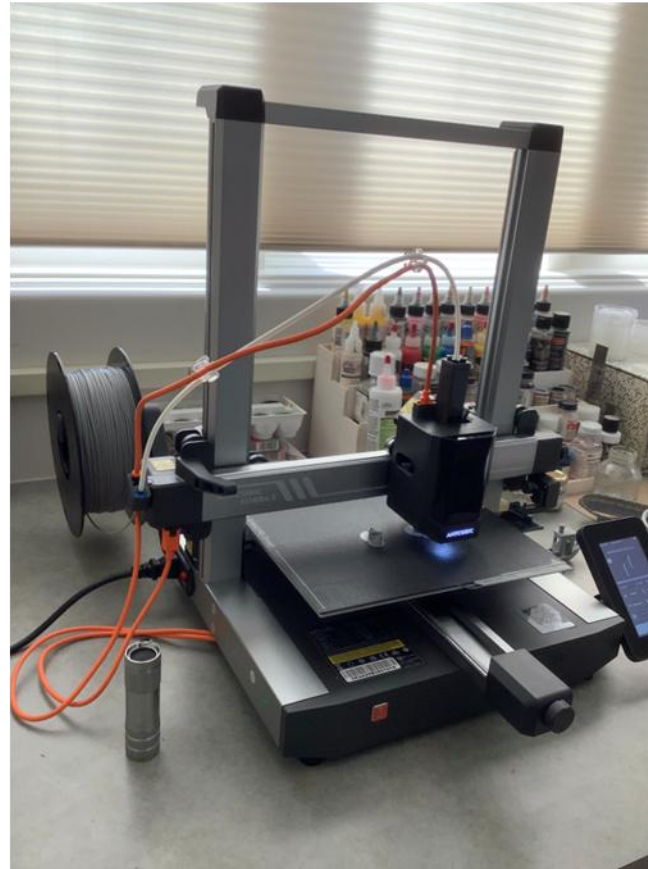
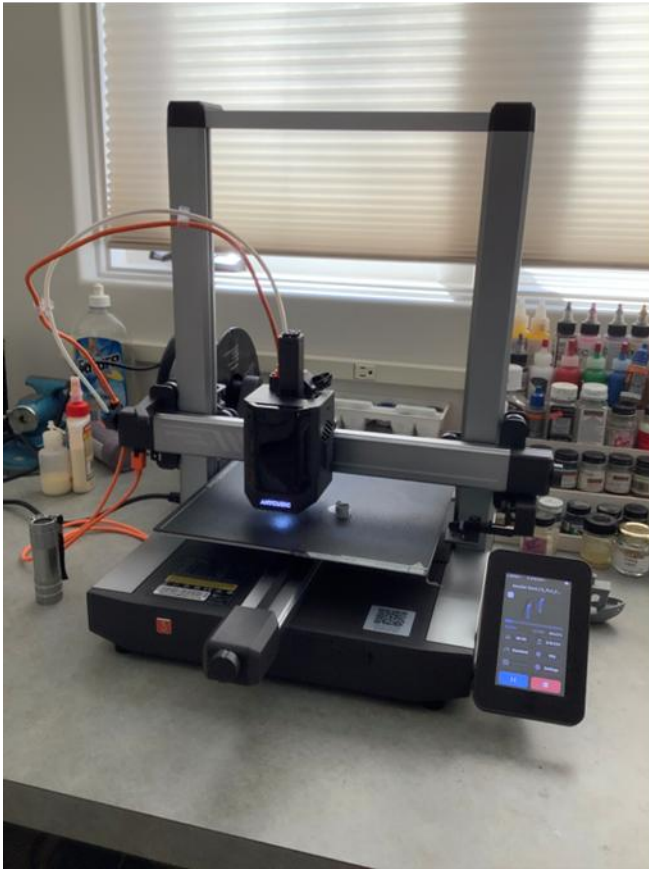
Agenda

- Filament (FDM) 3d Printing – A Quick Review
- The Basics of Resin Printing
- Creating a Design
- Parts for the USS Liscome Bay

Why Consider Resin Printing Parts for the Liscome Bay?

- When you need to make more than one part:
16 Wildcats fighters, 12 Avenger Bombers ,
8 Bofors 40 mm , 12 Oerlikon 20 mm
- When there is not other better way to make the part:
Intricate Design, Fine Detail (Custom Photo Etching)
- When your design might change or “evolve”:
Many “poses” for interest

Anycubic Kobra 3 3d Printer

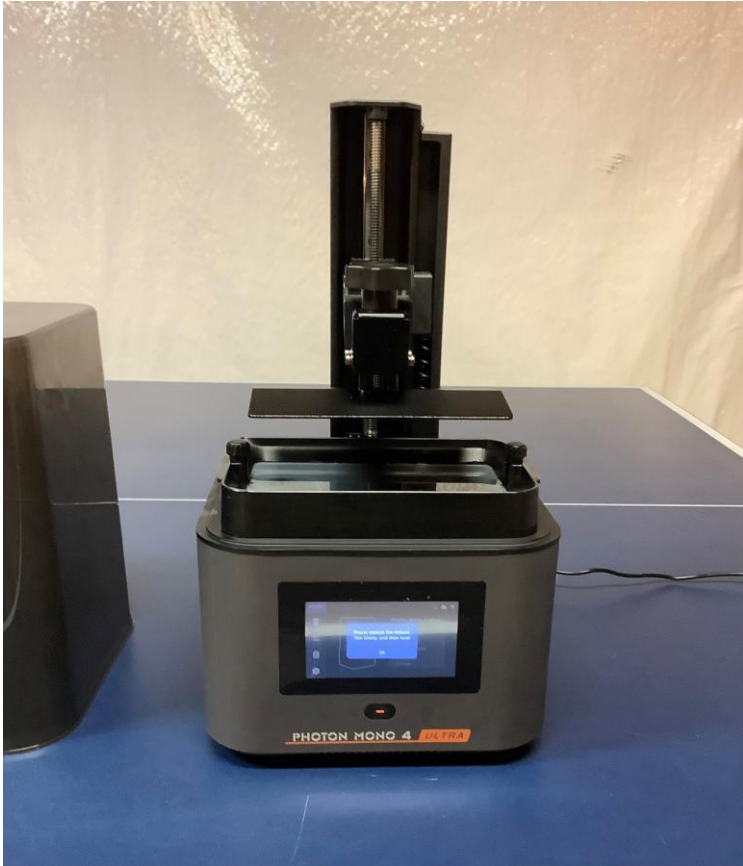


Product Overview



- Biodegradable, food safe polymer
- .2 mm layer height
- Makes each part individually

Anycubic Mono 4 Ultra Resin Printer



- UV Curable, Toxic Resin
- .05 mm Layer Height, 17 mic. Resolution
- Prints entire plate with each pass

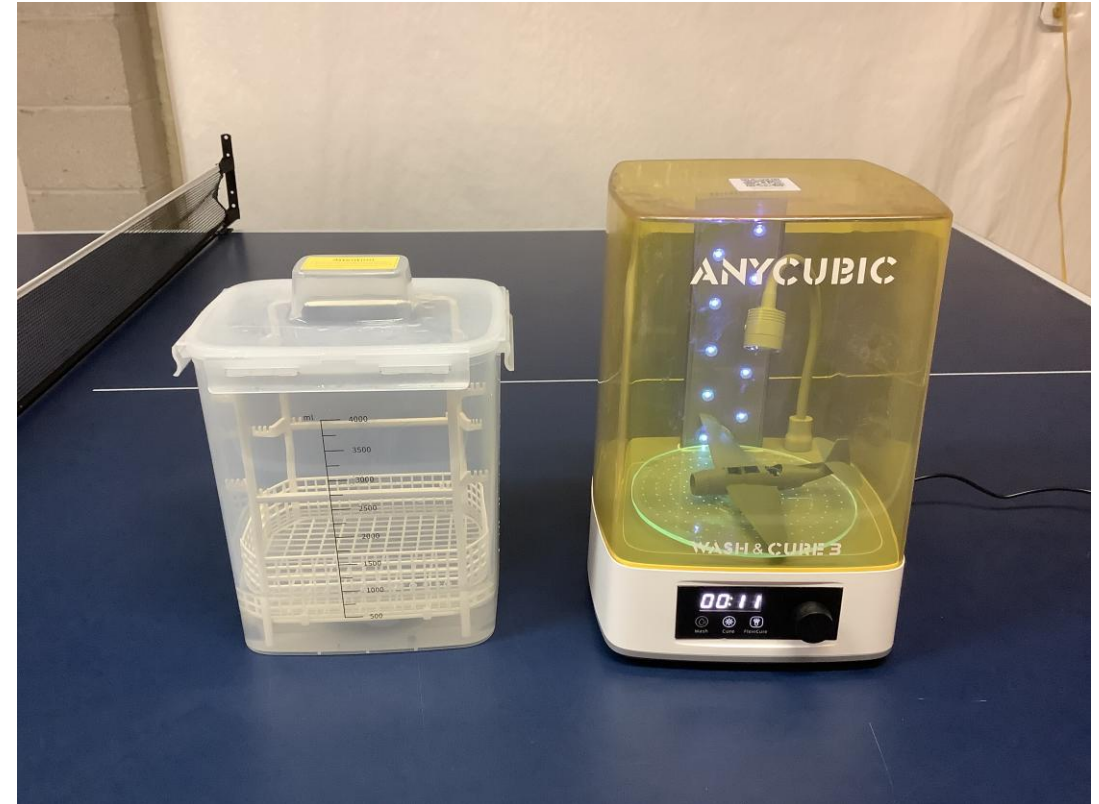
Anycubic Photon Mono 4 Ultra Product Details



Washing and Curing



Wash/Cure Station



- Wash Parts with IPA
- Final Cure with UV light

Additional Equipment



- Resin
- IPA
- Cartridge Respirator
- Nitrile Gloves
- Resin strainers
- Sharpened Putty Knife
- X-acto with Chisel Blade
- Cutters and Plyers
- Plastic/Silicone Spatula
- Spare FEPs

Is Resin Printing Something You Should Consider?

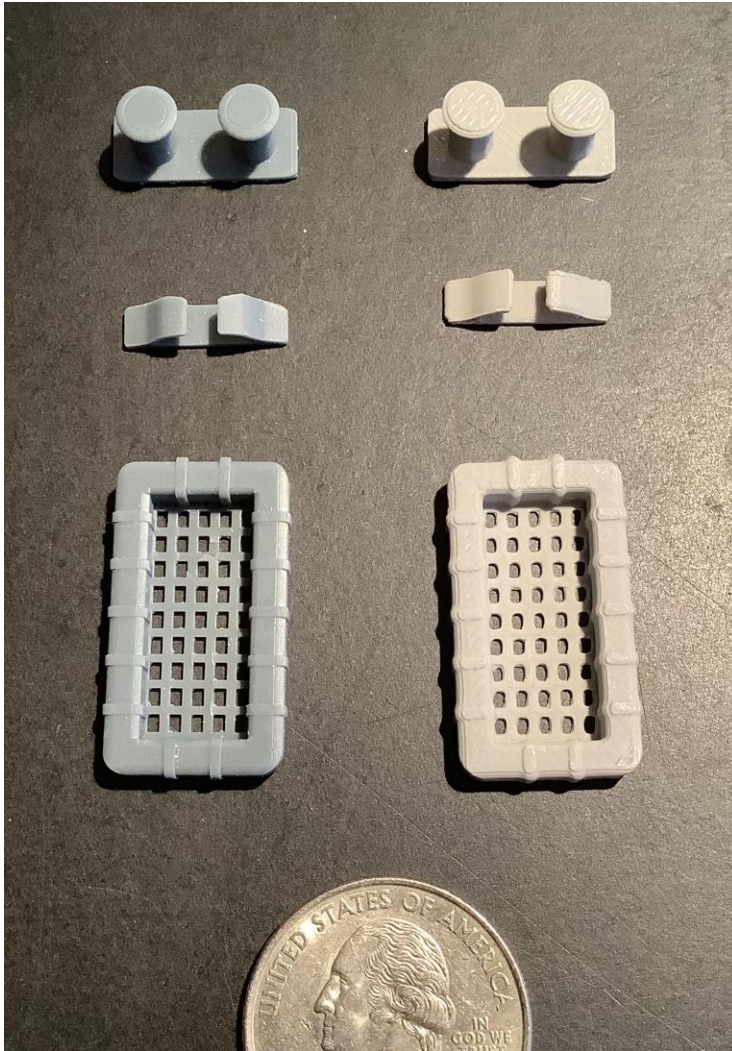
Cons

- Requires the use Toxic Resin
- Requires the use of Solvent in the washing step
- Requires UV Curing
- Requires protective cartridge respirator and Nitrile gloves
- Requires an isolated ventilated work area away from people and pets
- It's a multiple step process to obtain a finished part
- Small build volume

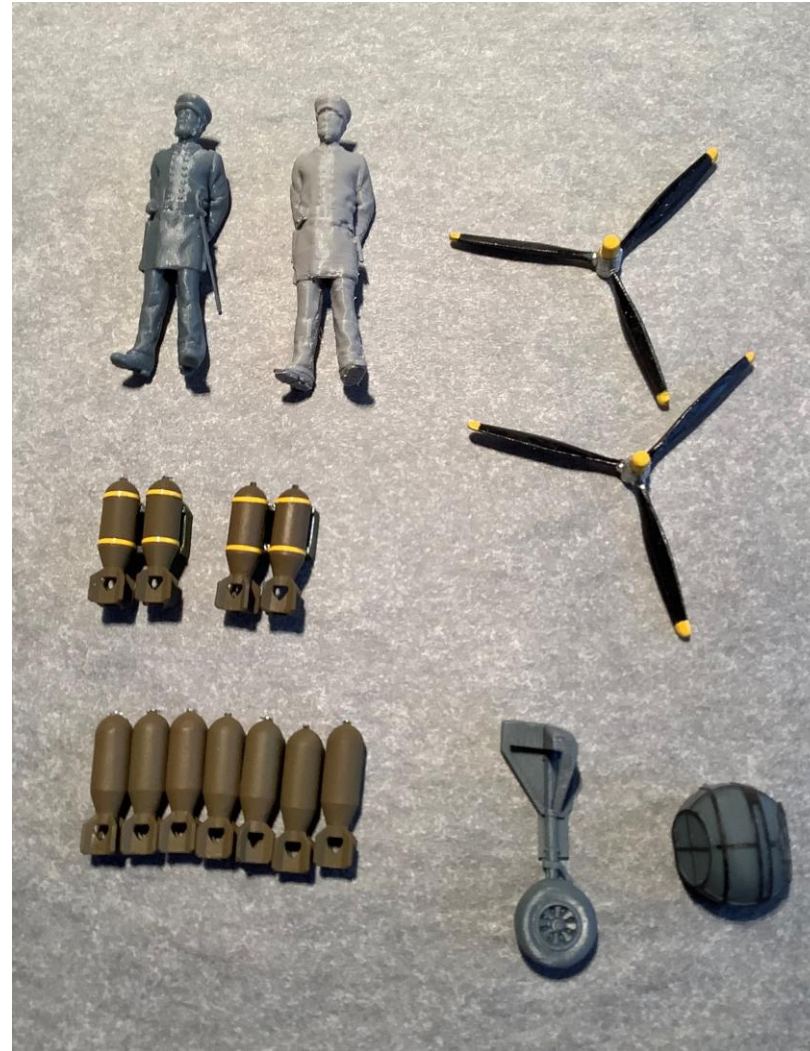
Pros

- Capability of producing intricate, detailed 3D parts

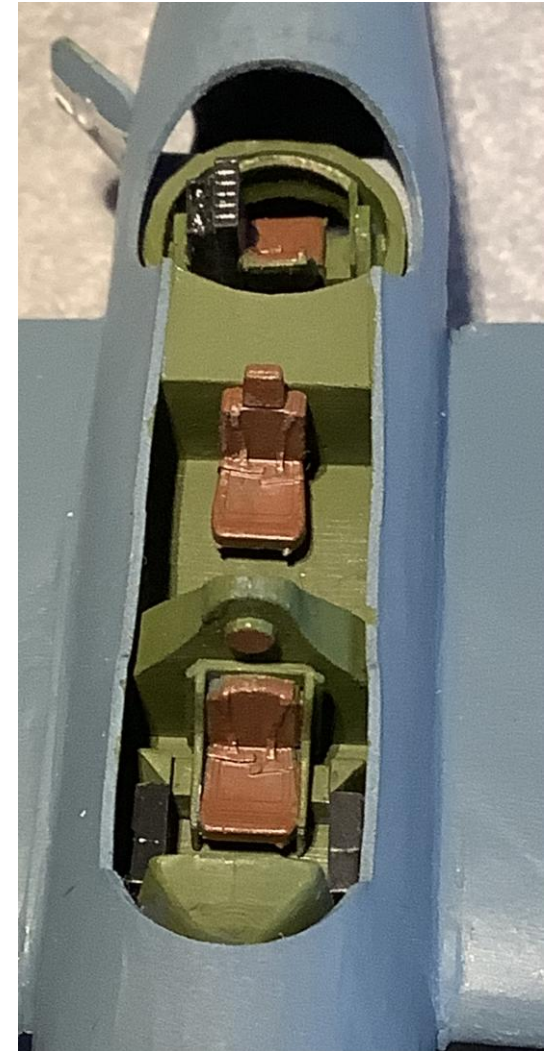
Let's Look at the Results



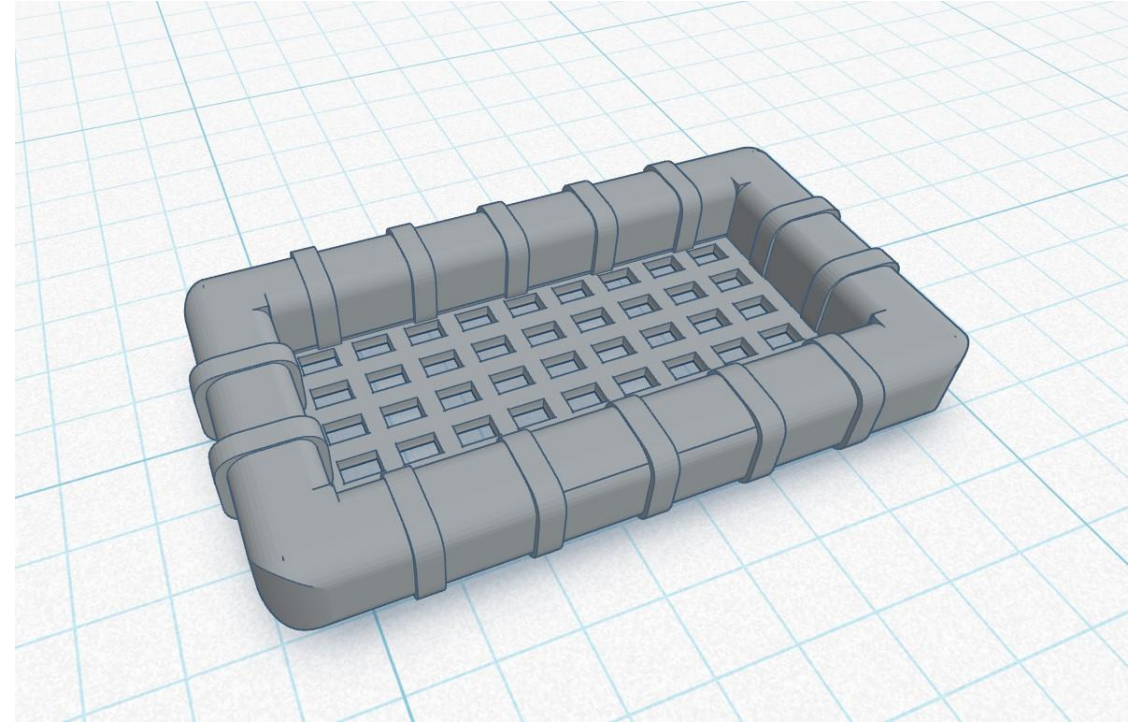
Simple Parts



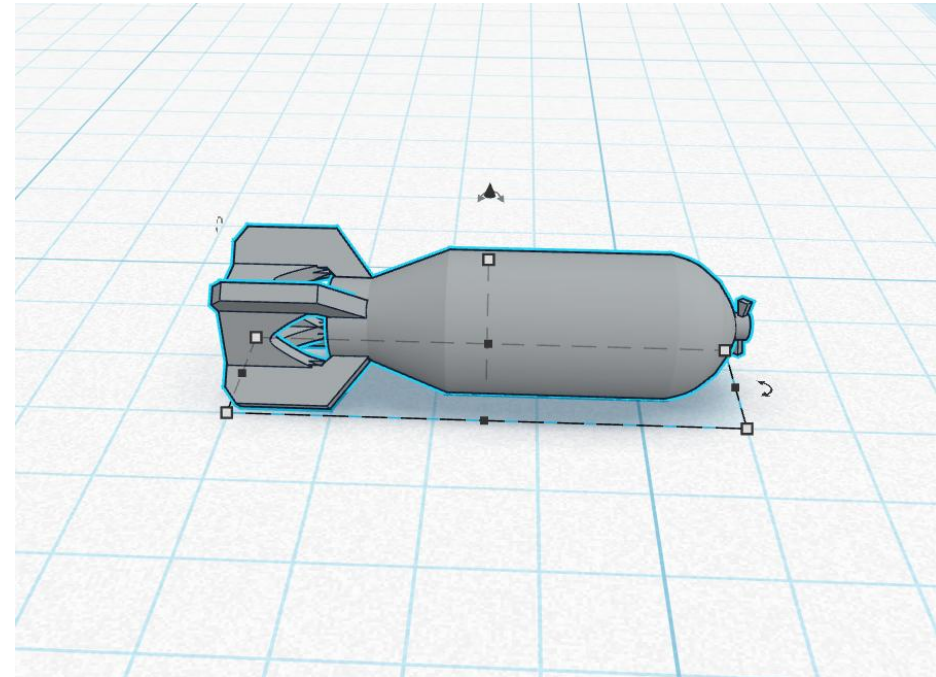
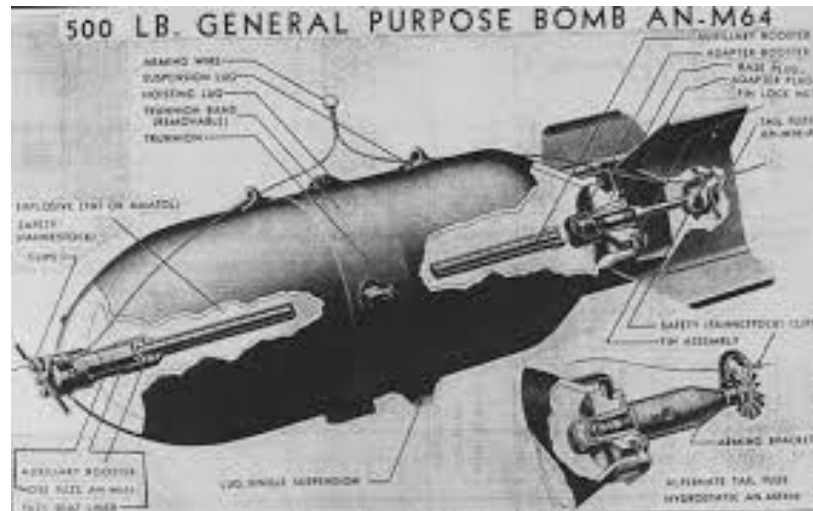
Detailed Parts



USS Liscome Bay Life Raft



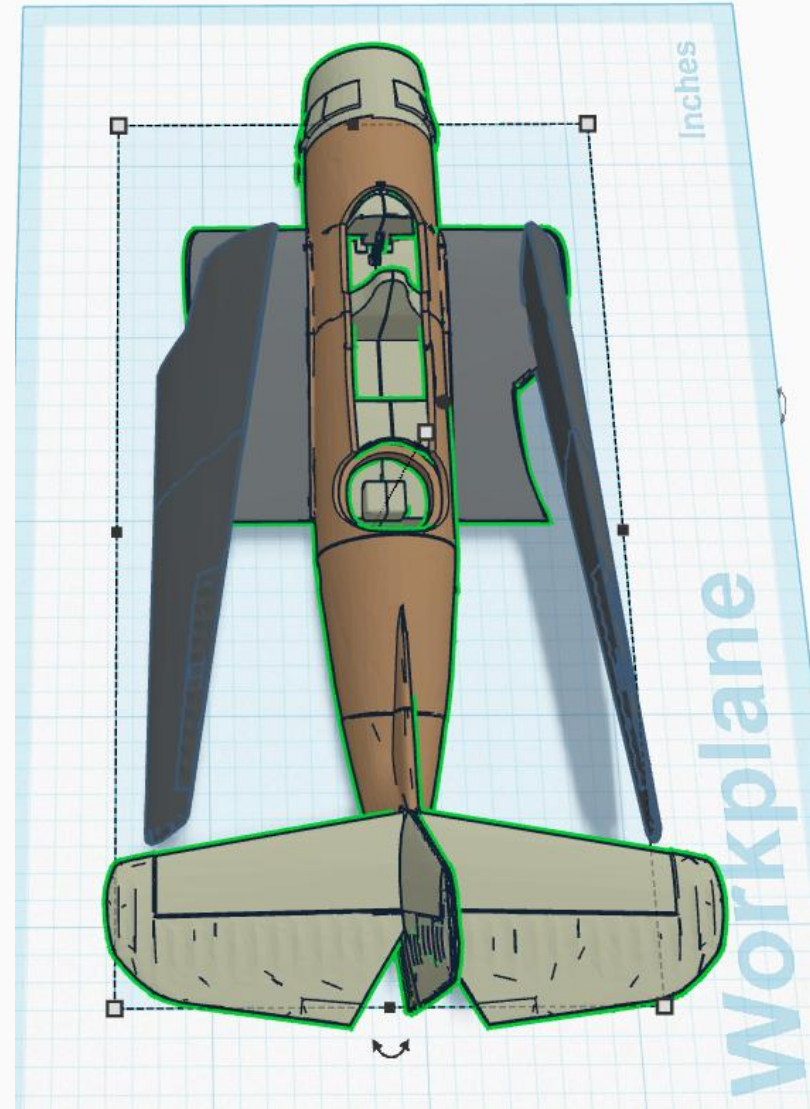
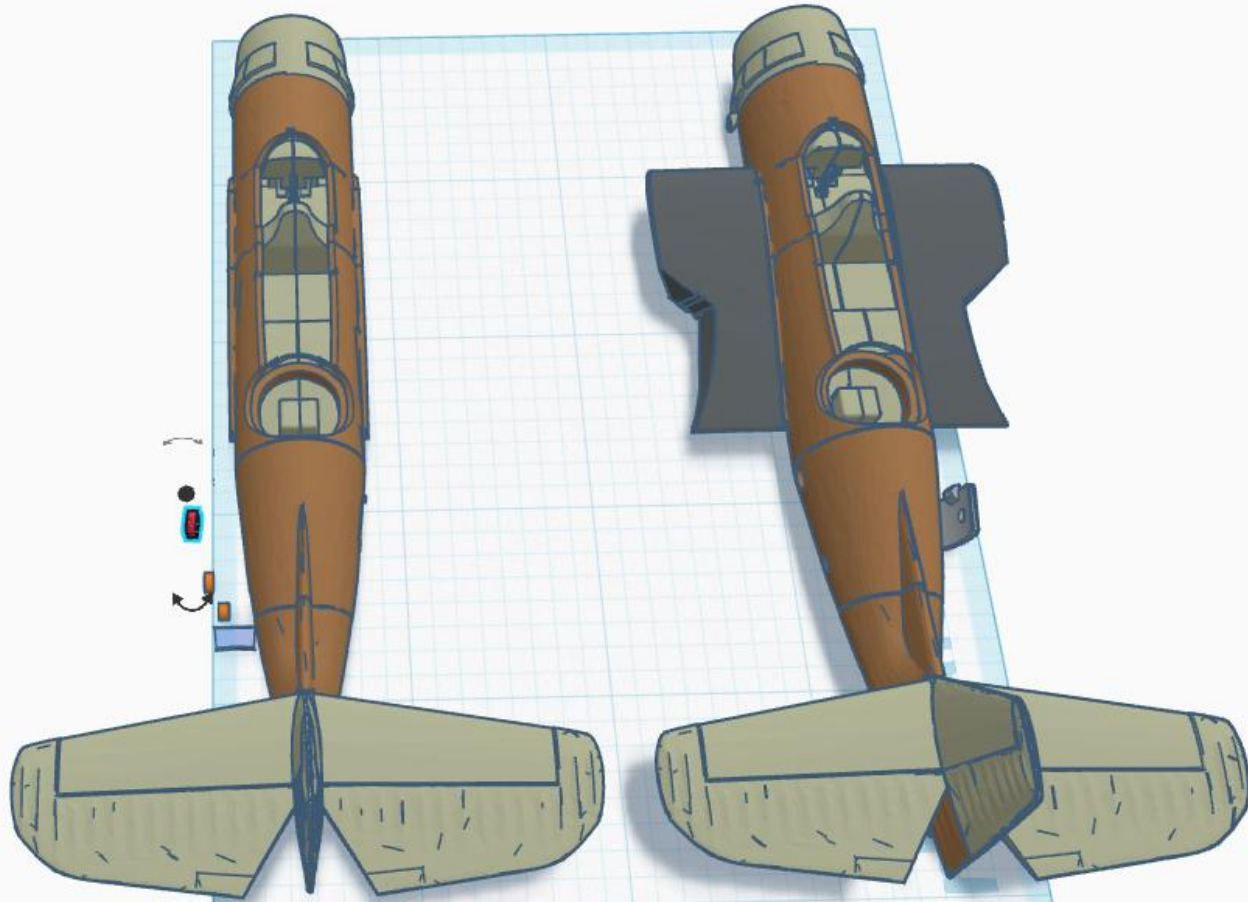
500 LB M-64 Bomb



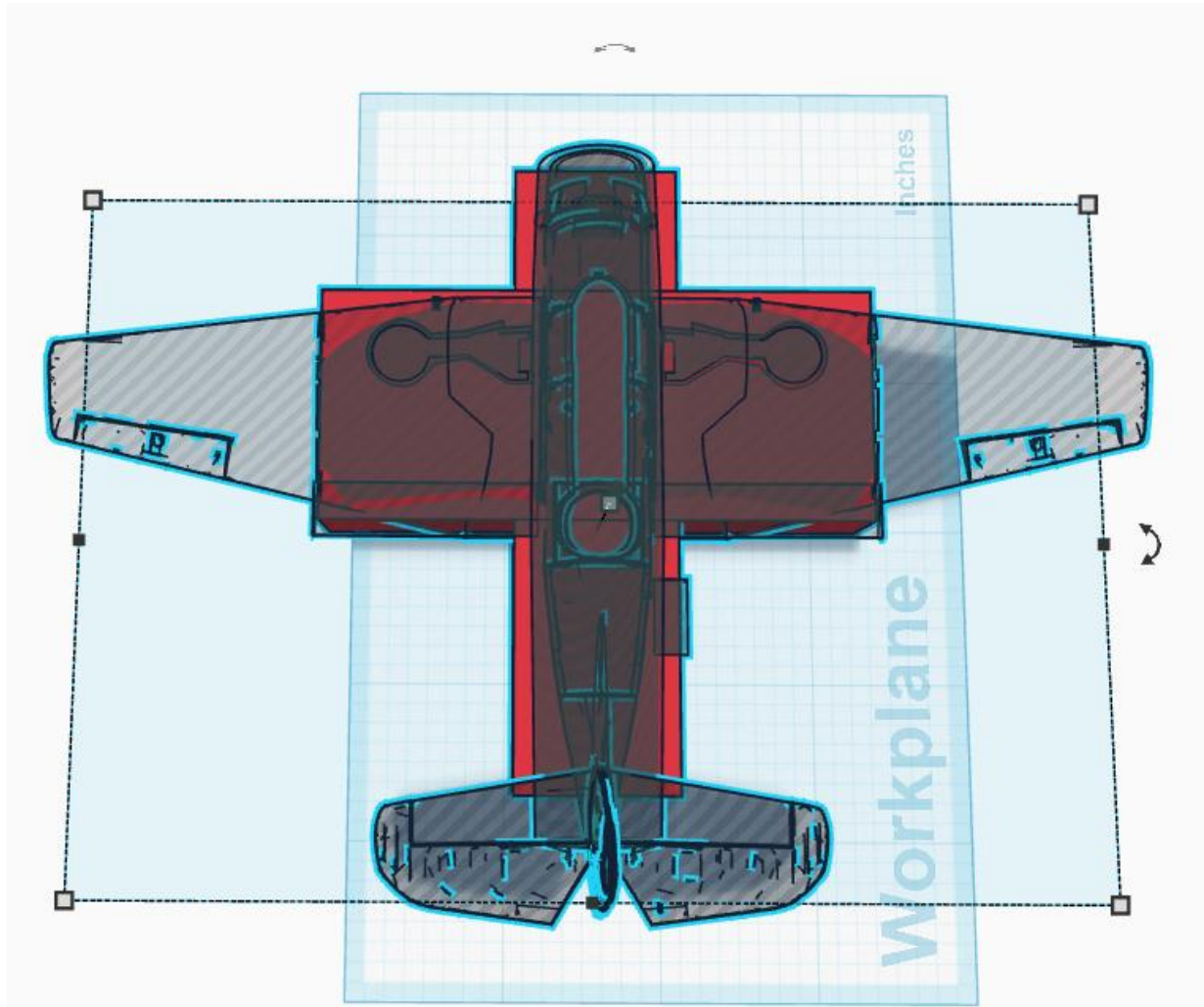
1/96 th Scale TBM Avenger

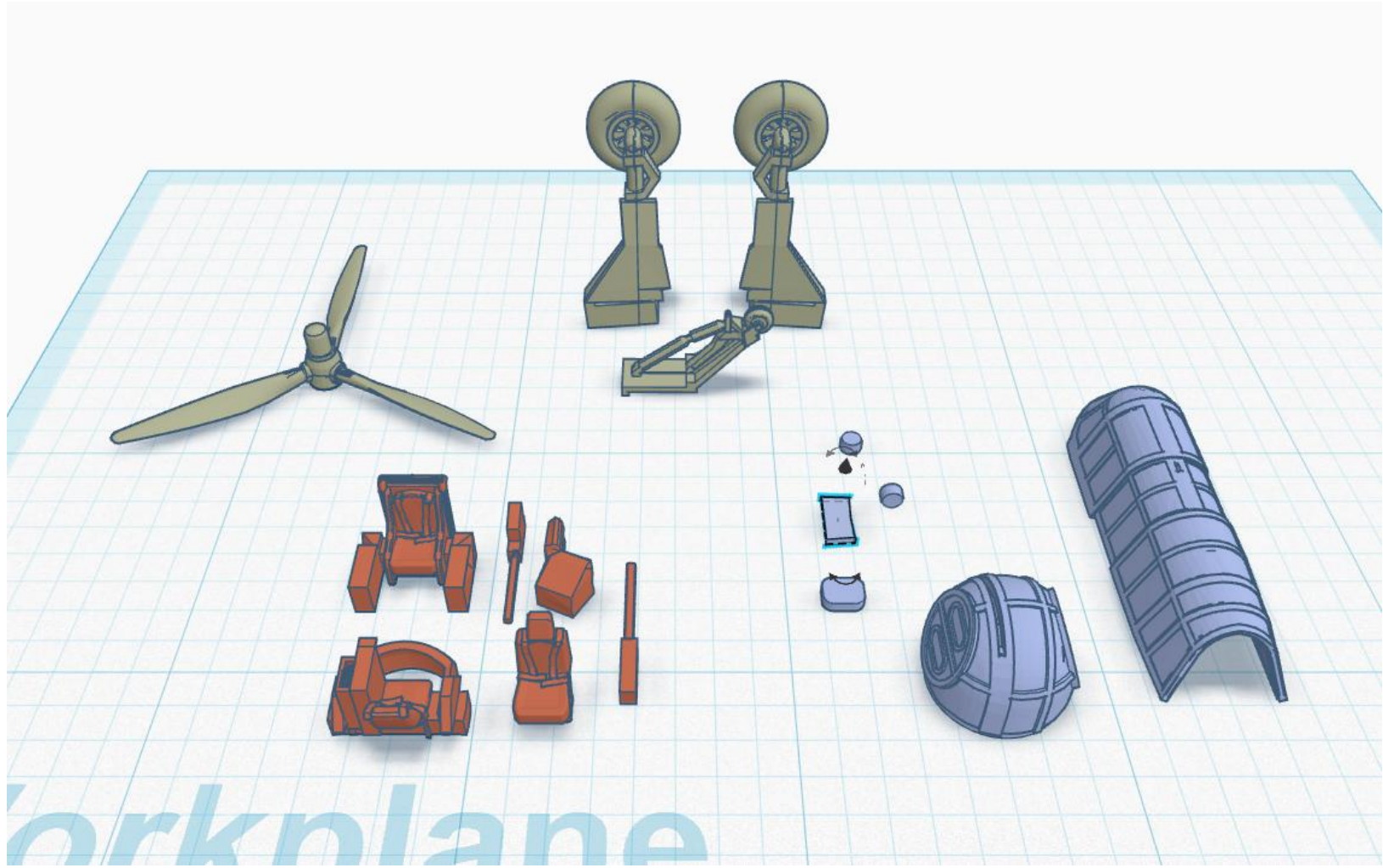


Avenger Fuselage



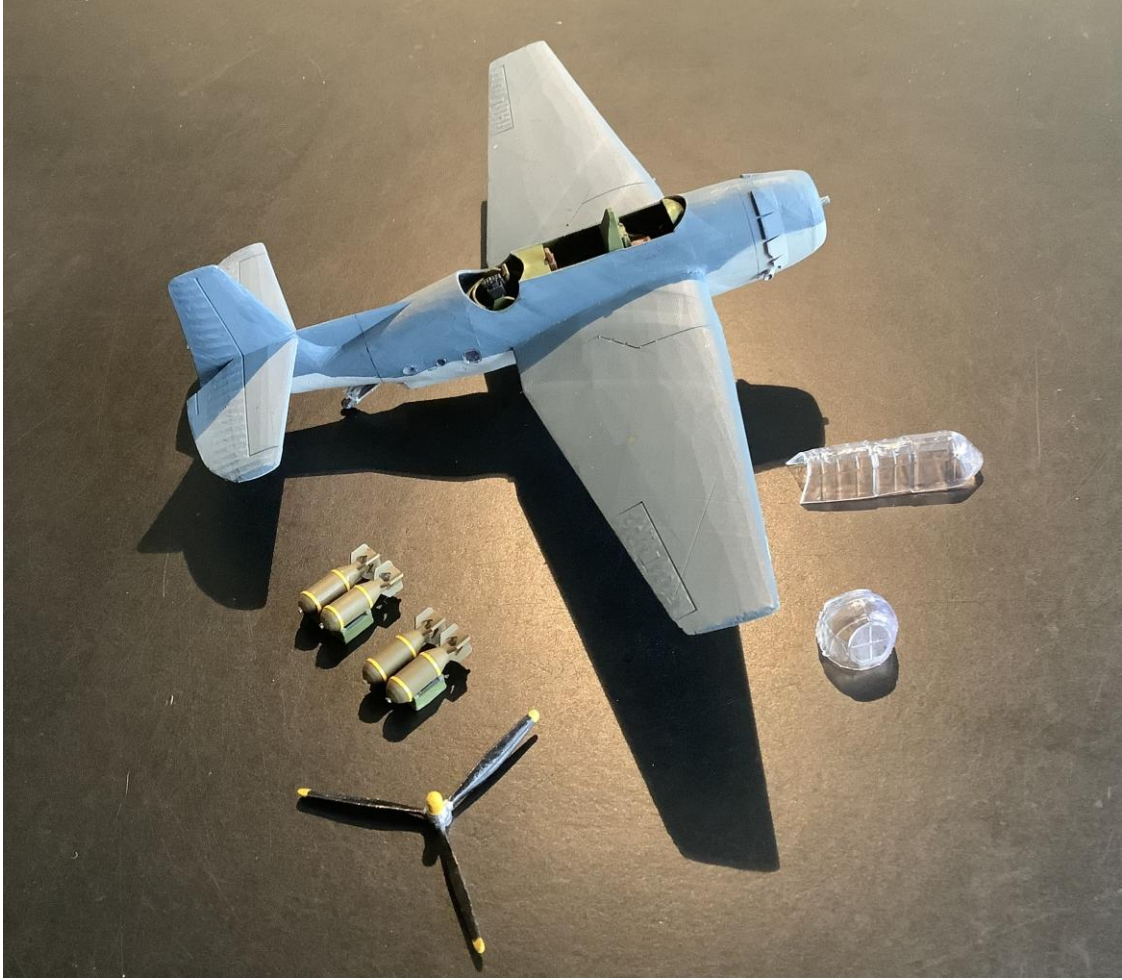
Extended Wing Assembly Jig





Avenger Flight Line





Cockpit Detail

