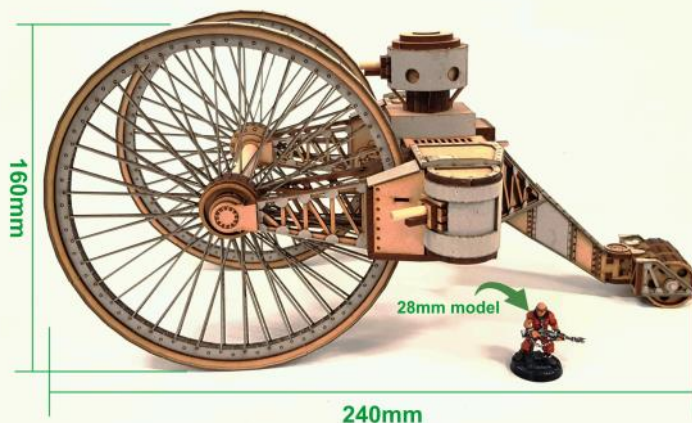
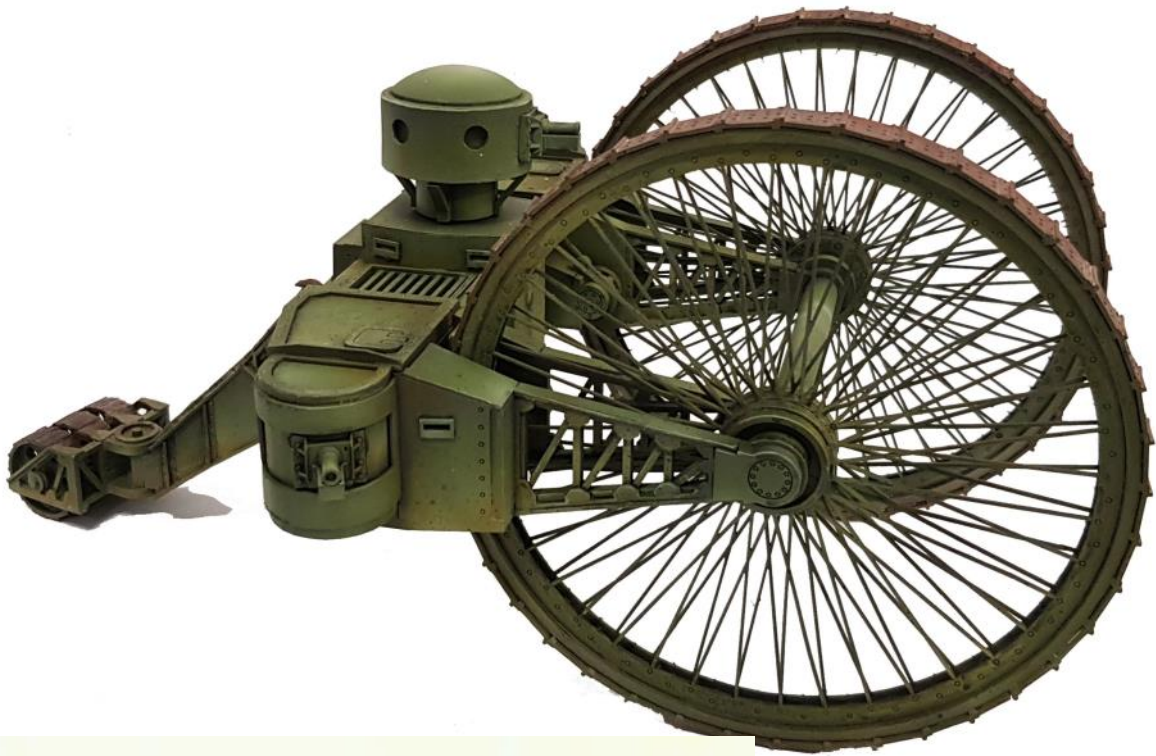


# MINIATURE SCENERY

## TSAR TANK 1915



MINIATURE SCENERY IS DESIGNED FOR 28MM MINIATURES,  
IDEAL FOR GAMERS AND COLLECTORS



FOR DETAILED, EASY TO FOLLOW INSTRUCTIONS VISIT  
[WWW.MINIATURESCENERY.COM](http://WWW.MINIATURESCENERY.COM)



2724479701227

Contents may contain small parts. Not suitable for children under 6 years old. The exclusive copyright on the model designs and components within this case is the property of Miniature Scenery, 2016. All rights reserved.



# MINIATURE SCENERY

## PREPARATION

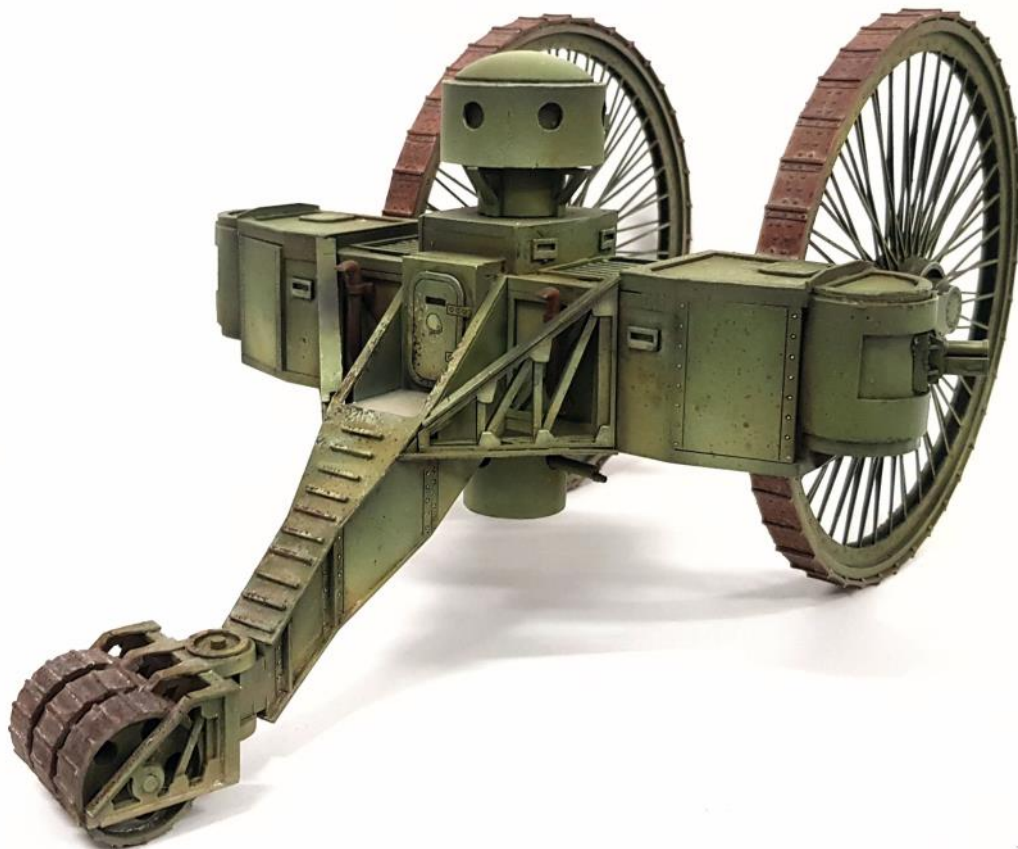
You will need:

- Cutting mat or something to protect your table.
- PVA/Wood glue or superglue if you prefer.
- Small file or sand paper.
- Small blade / hobby knife



## GENERAL PROCESS

- Clear plenty of table space, you will need it.
- Parts should remove easily from the board by pressing through and popping them out. It's a good idea to cut through the tiny joins first though, and some parts (particularly smaller, more detailed parts) may need more careful persuasion.
- Use file or sand paper to remove the small bur caused by the connection to the frame.
- It's a good idea to familiarise yourself with how the pieces fit together before gluing.
- Slot the parts together as shown by the pictures below, applying glue wherever there is a connection. (unless shown otherwise)
- Parts may be a very tight fit, slight trimming or sanding of parts may be needed for ease of assembly.



Some interesting thoughts on the design of this model.

This was a real vehicle, created by Russia in 1915 and very few images of the original exist and, as far as I can tell, not much in the way of reliable dimensional plans. At very least, all of the references I found contradicted each other in some way or another. So, consequently, some parts of this kit are not so much historical but more completely made up.

There are, for example, no clear pictures of the underside or top of the hull. It's not obvious whether there are one or two supporting arms either side of the main wheels. (I went with two, because I liked two).

It's unlikely the top and bottom turrets were designed to actually rotate, but it's way cooler if they do. The prototype was never fitted with guns, but it's fun to assume it's production loadout.

I hope you enjoy this wonderful historical oddity as much as I have enjoyed designing it.



# 3D printed parts notes

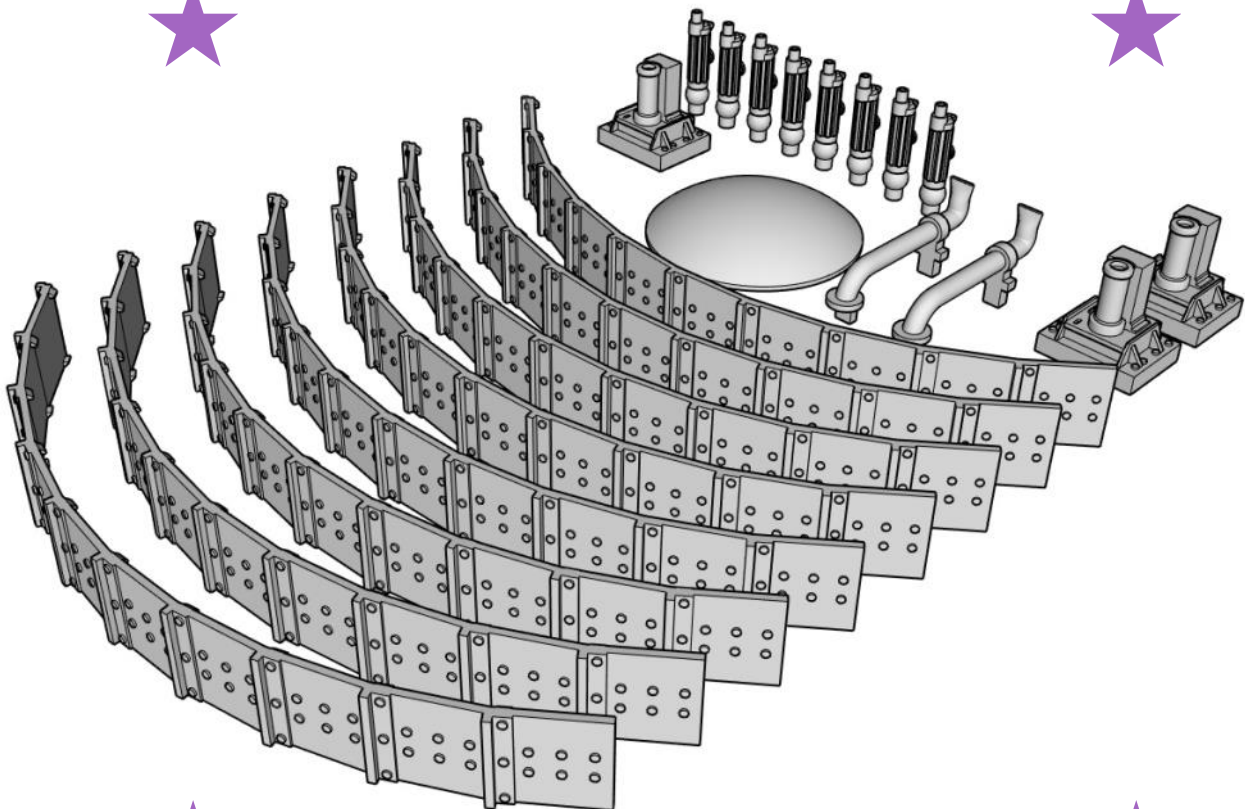
This kit has optional parts that can be 3d printed. The file for these parts can be purchased from [www.miniaturescenery.com](http://www.miniaturescenery.com)

These optional parts are designed to fit with the MDF kit at certain points in construction.

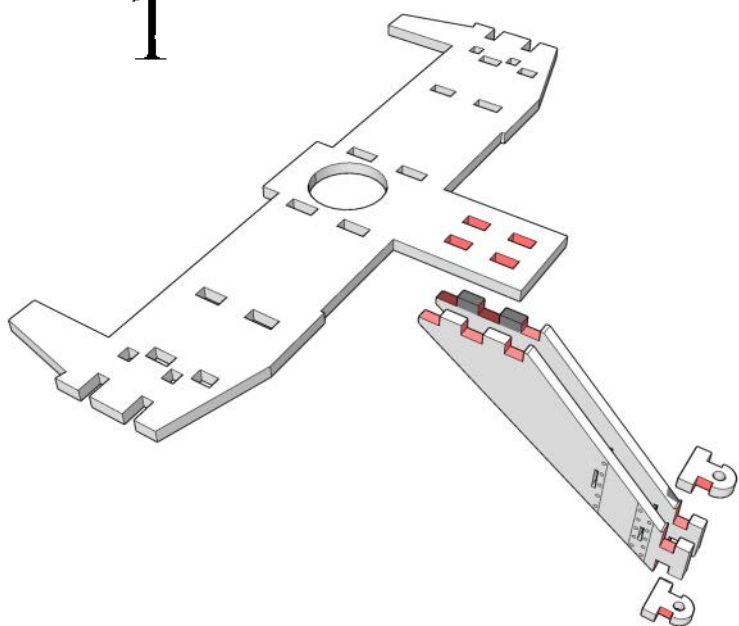
Where a 3D part can be used will be denoted with a



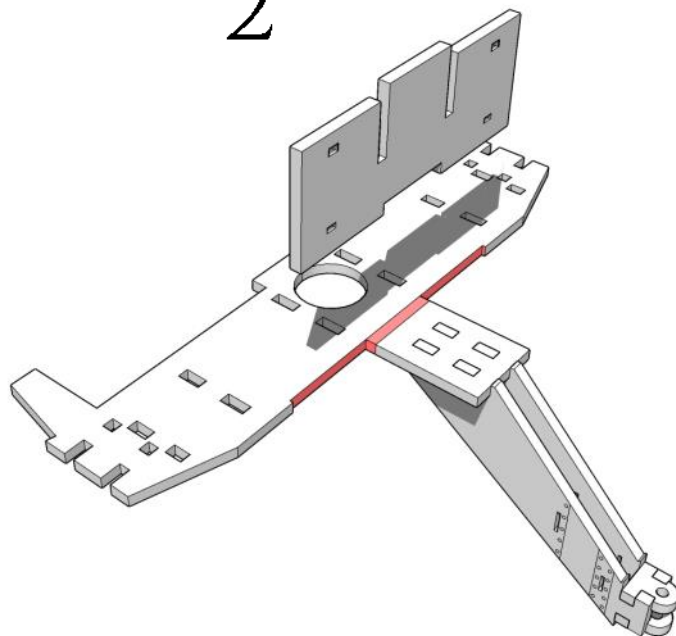
If you are planning to use these parts, please familiarise yourself with the parts below to ensure you do not use the equivalent MDF / Card parts.



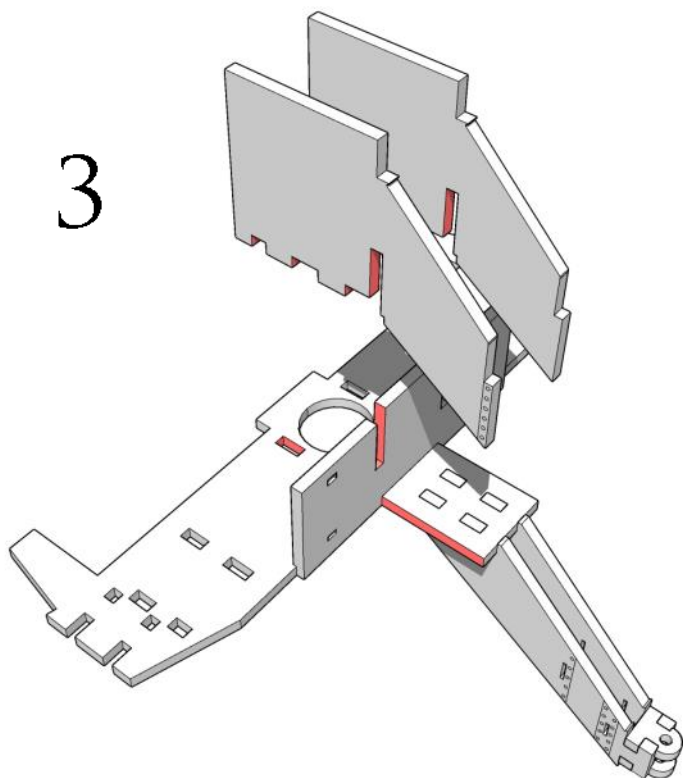
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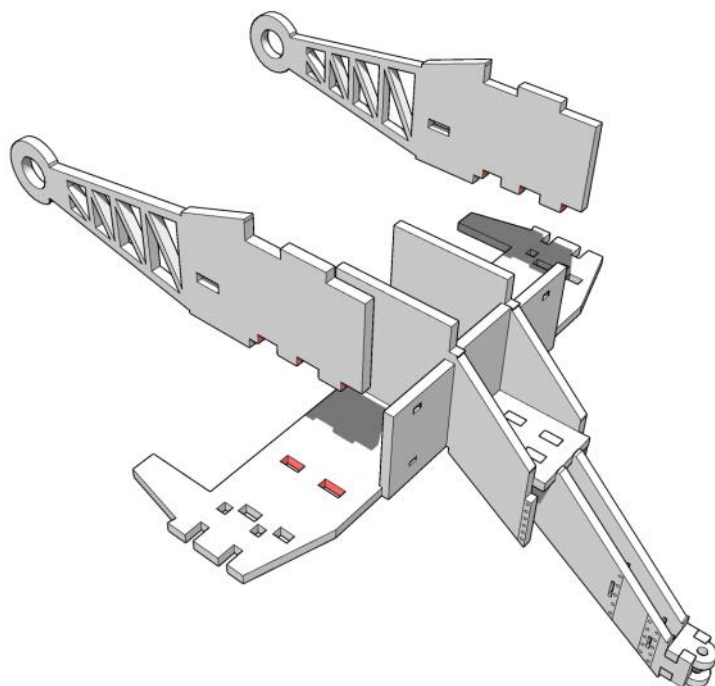
2



3

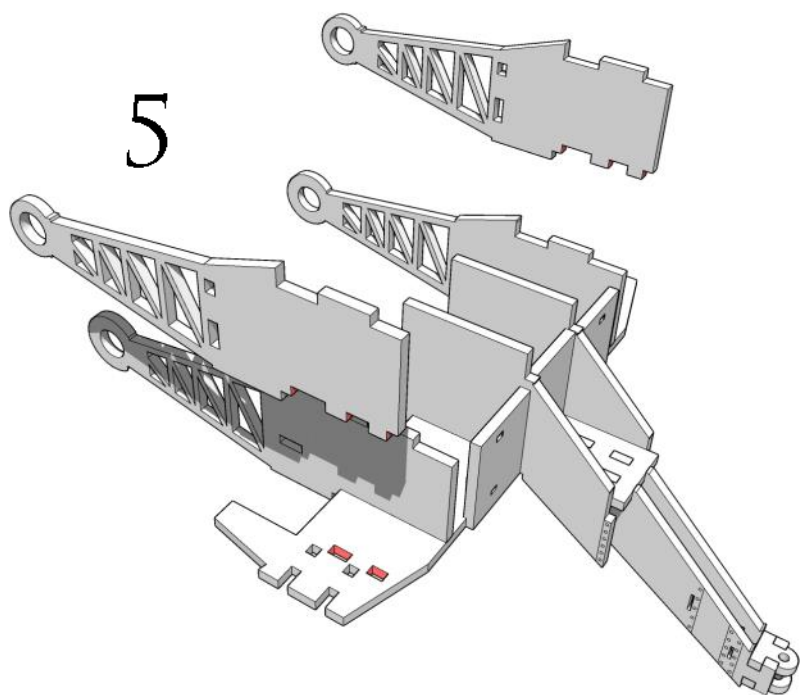


4

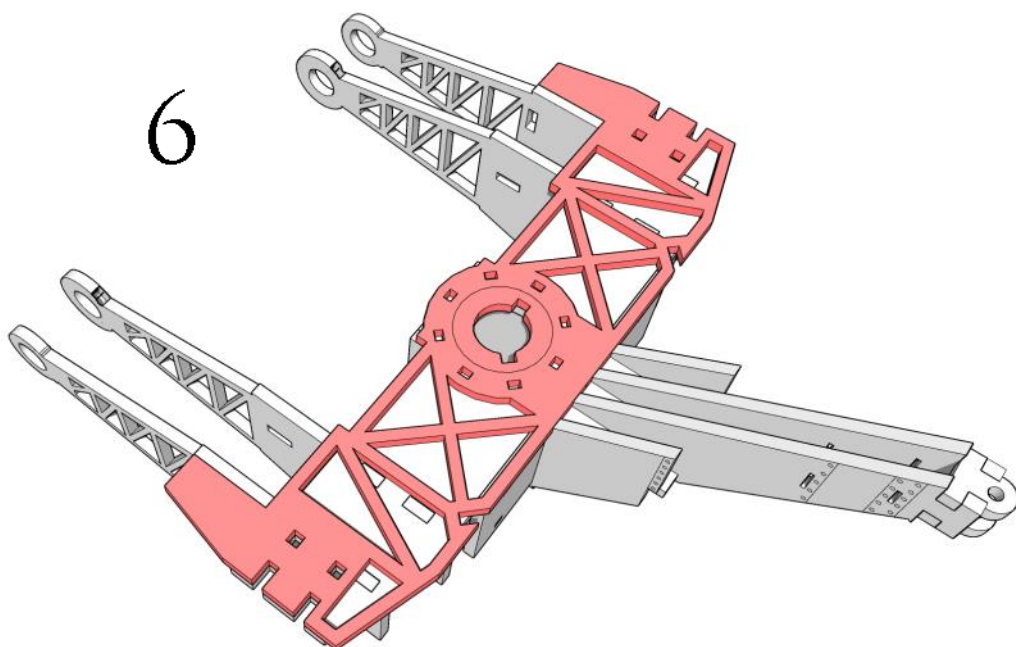




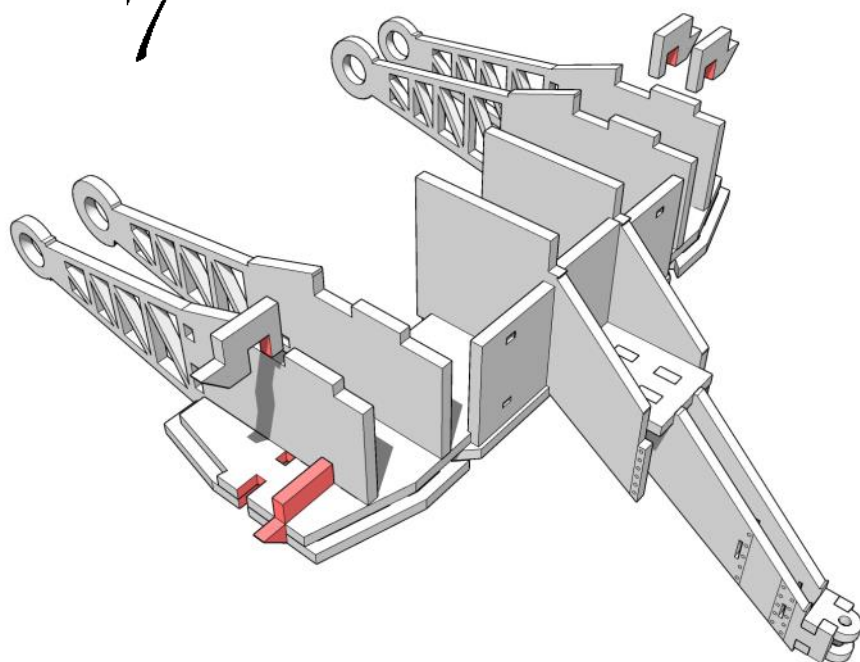
5

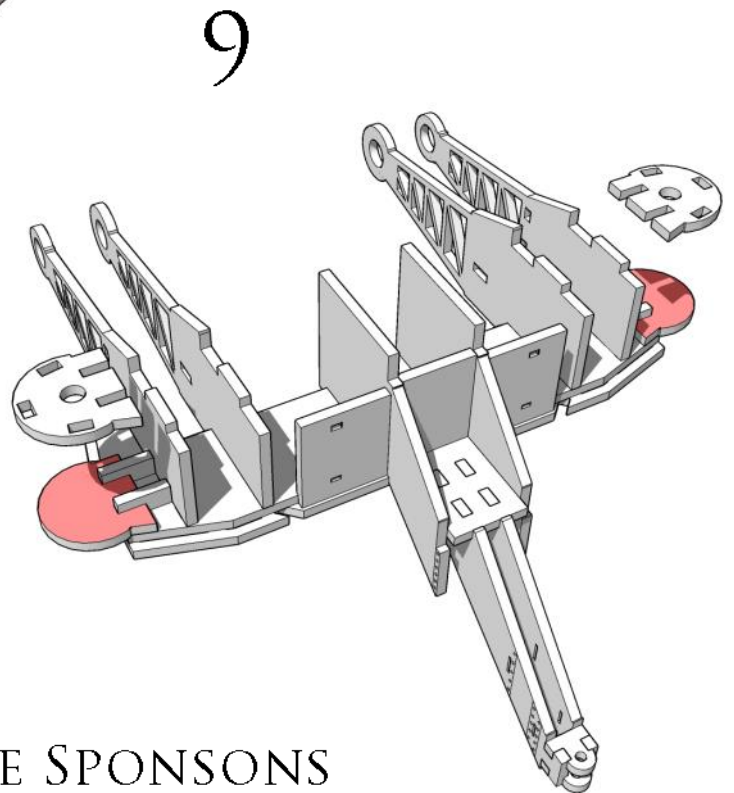
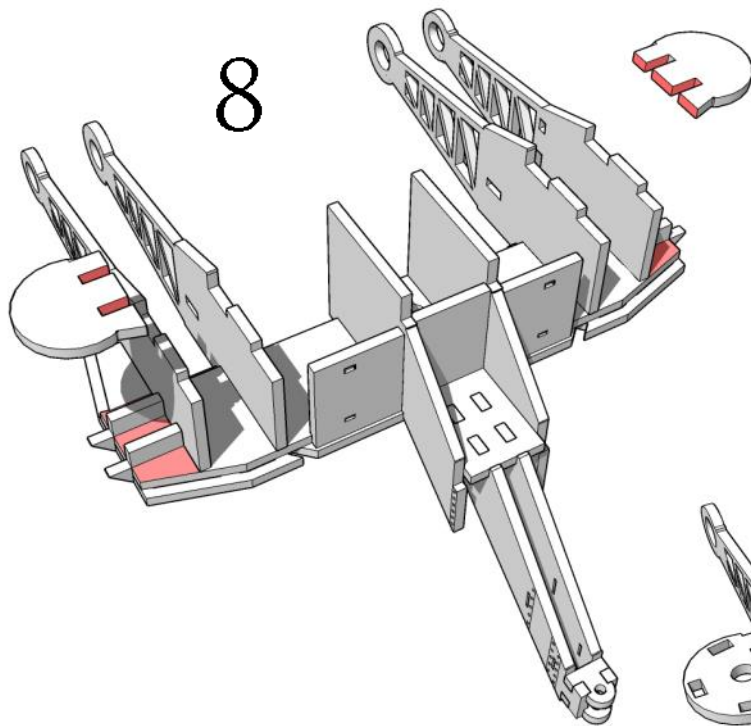


6



7

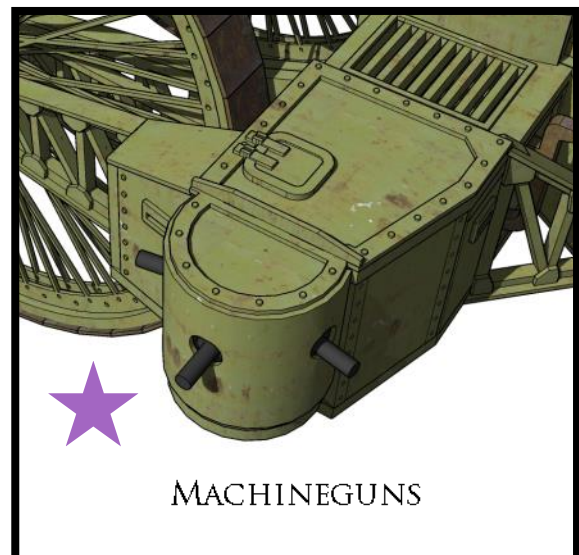
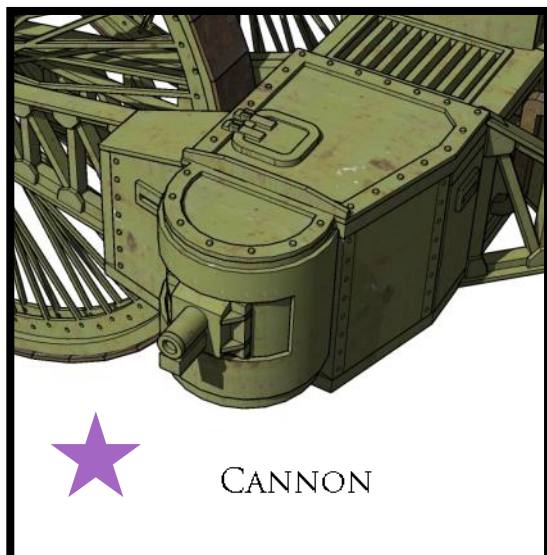




## ALTERNATE SPONSONS

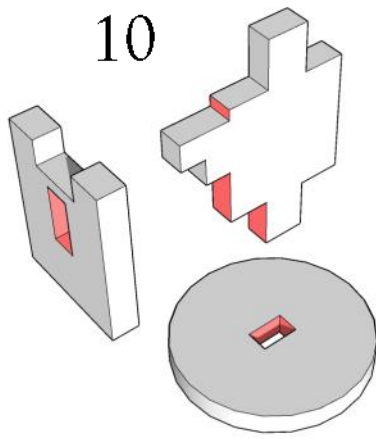
YOU CAN ARM YOUR MODEL WITH EITHER  
CANNON OR MACHINE GUN SPONSONS.

THE REAL VEHICLE WAS NEVER ACTUALLY ARMED  
DURING TESTING, BUT A VARIETY OF WEAPON  
FITS WERE PROPOSED.

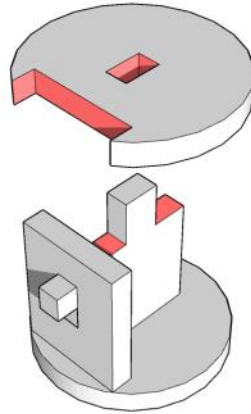


# CANNON SPONSON

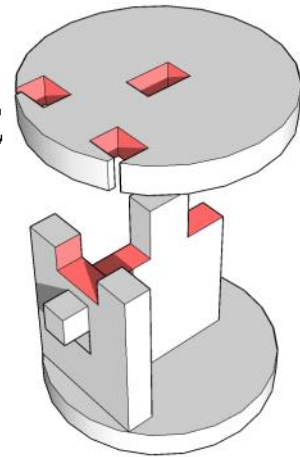
NOTE THAT THROUGHOUT CONSTRUCTION CARD PARTS MAY BE REQUIRED TO BE BENT AROUND AND FORMED TO SHAPE AND MAY REQUIRE A SMALL AMOUNT OF TRIMMING TO FIT.



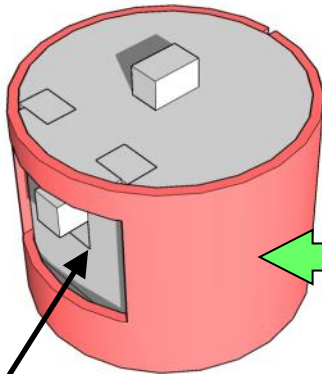
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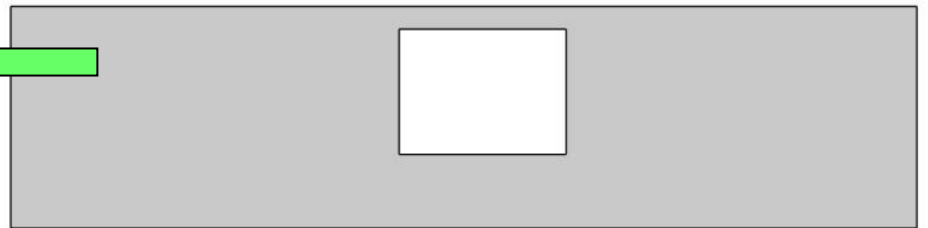
12



13

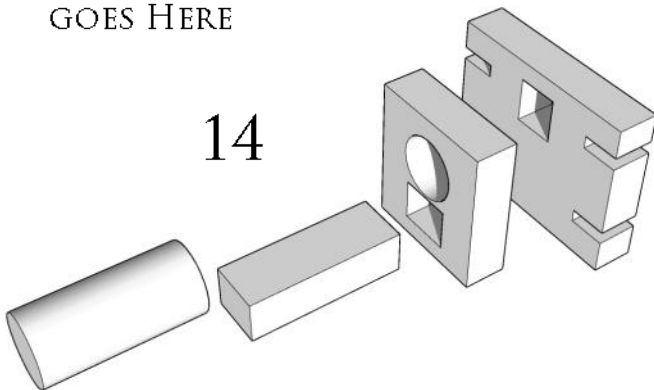


WRAP CARD AROUND

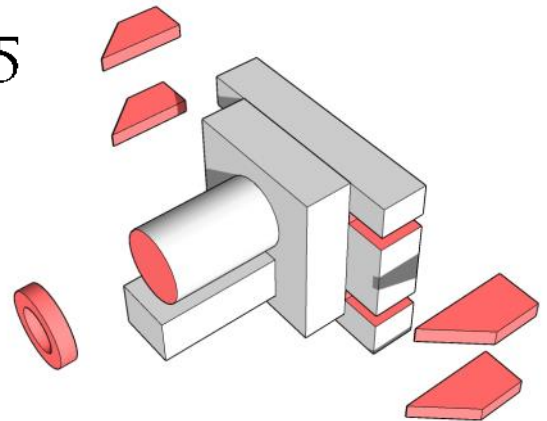


CANNON 3D PART  
GOES HERE

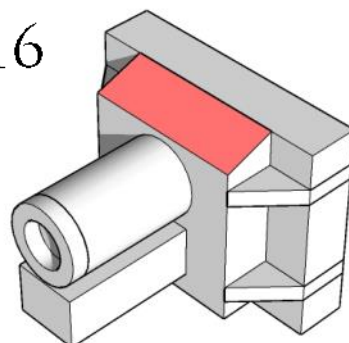
14



15



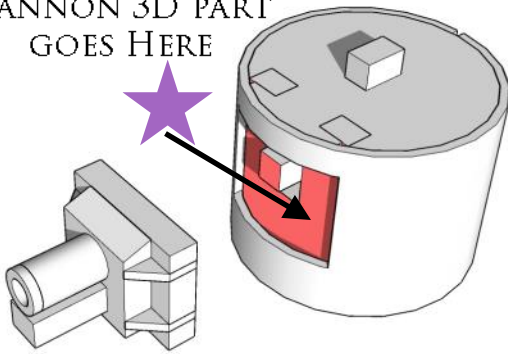
16



TRIM ANGLE.

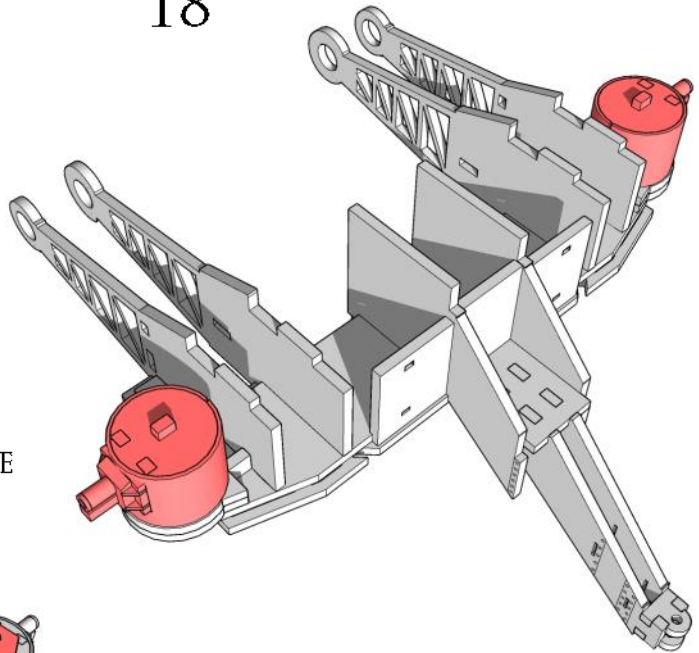


17  
CANNON 3D PART  
GOES HERE

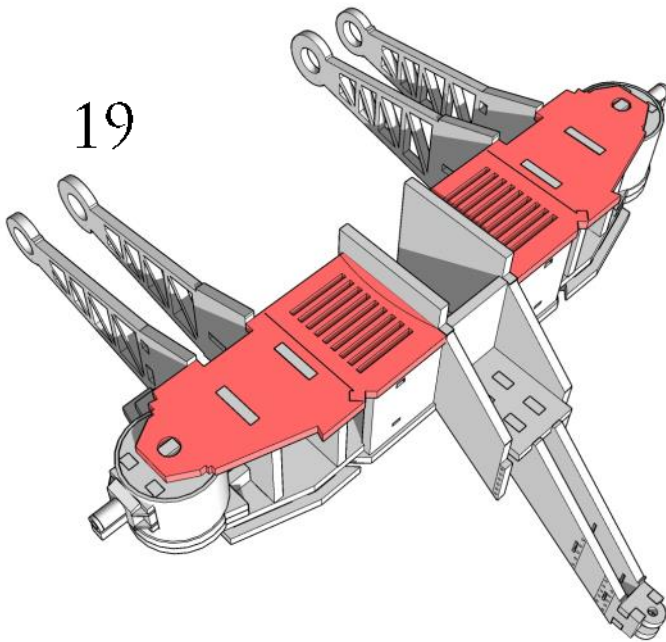


TURRETS CAN BE LEFT TO ROTATE  
FREELY.

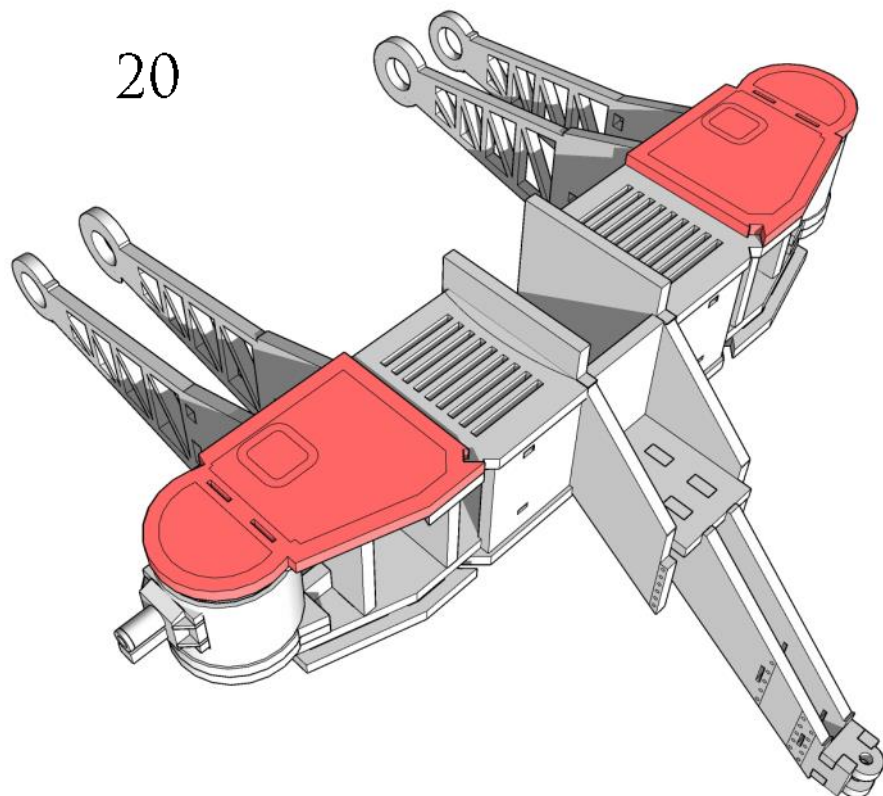
18



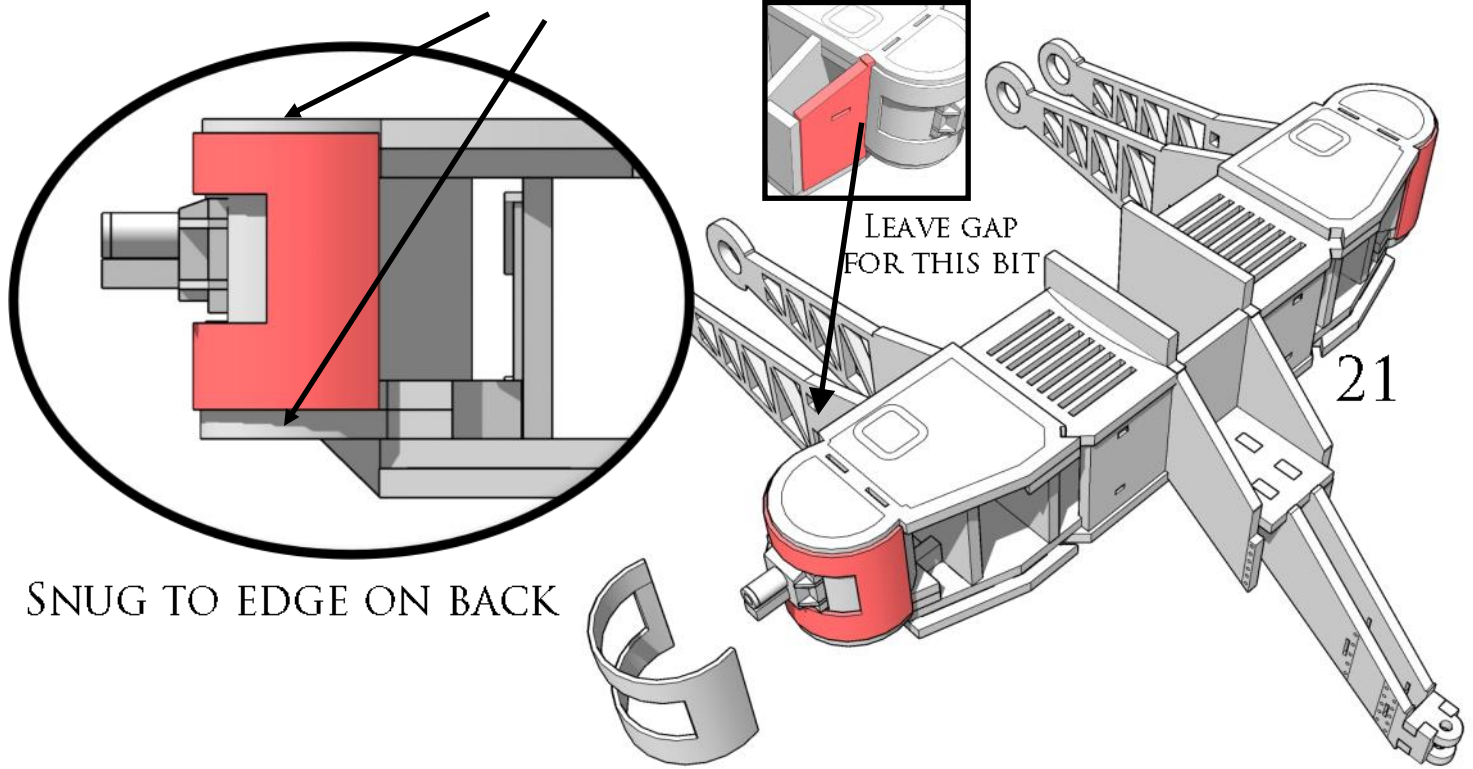
19



20

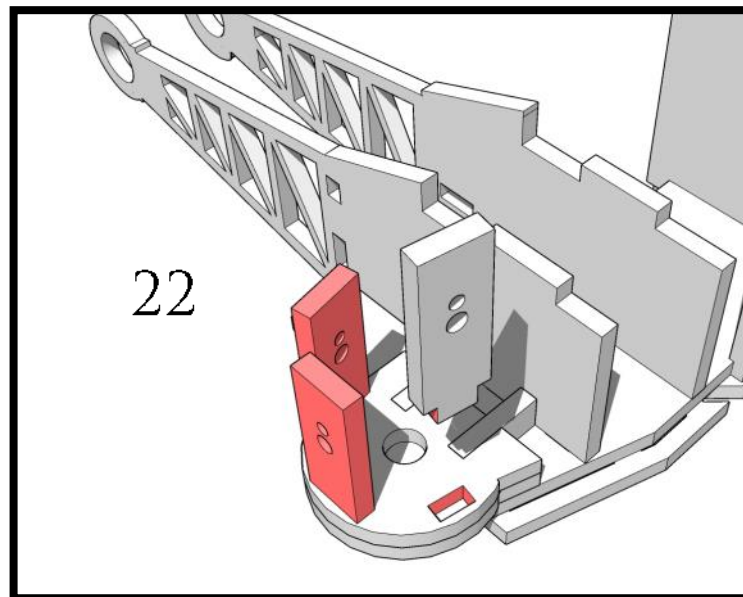


NOTE SPACES AT TOP AND BOTTOM

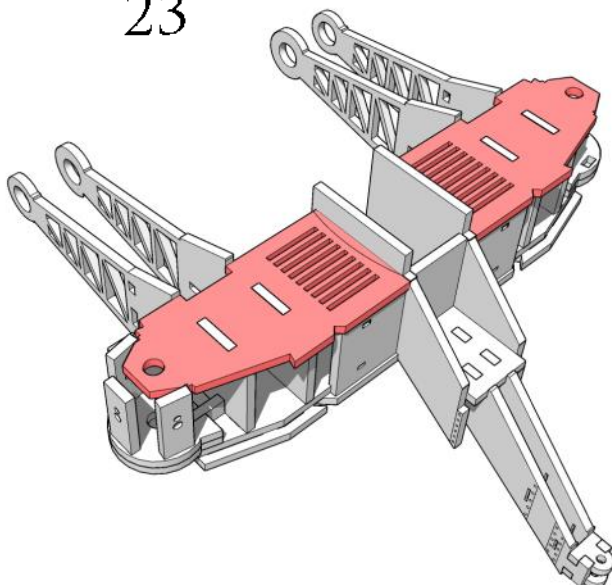


SNUG TO EDGE ON BACK

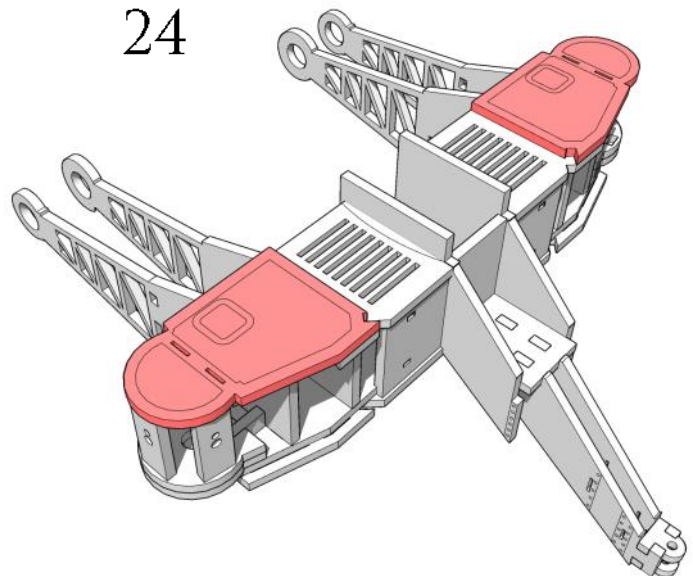
## MACHINEGUN SPONSONS



23

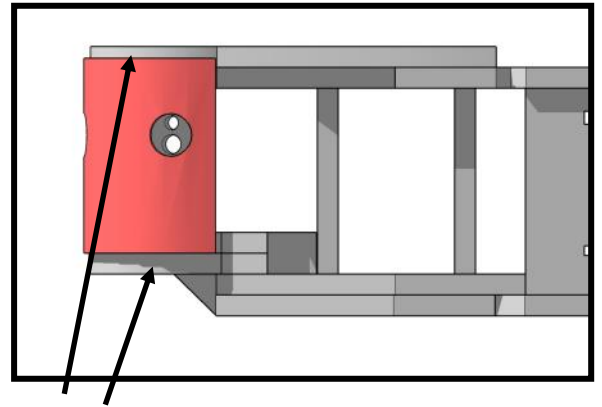
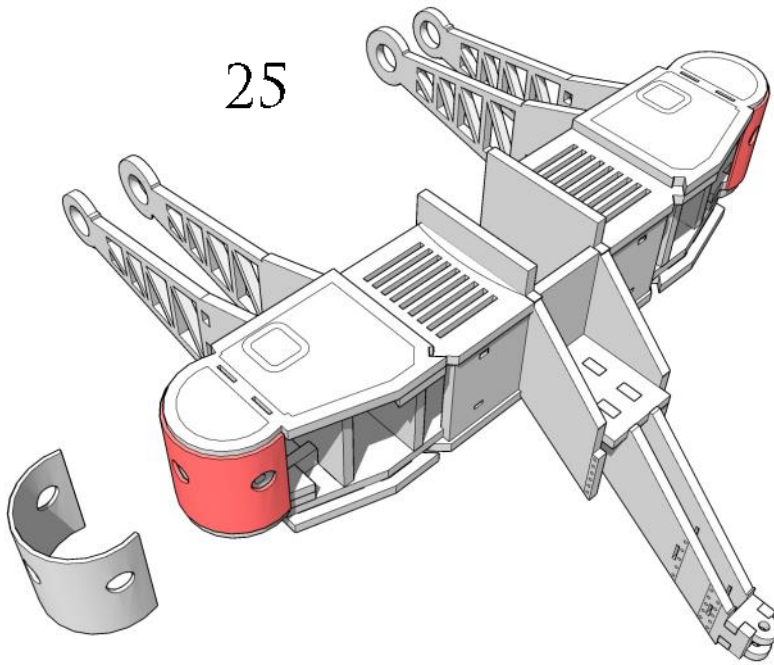


24





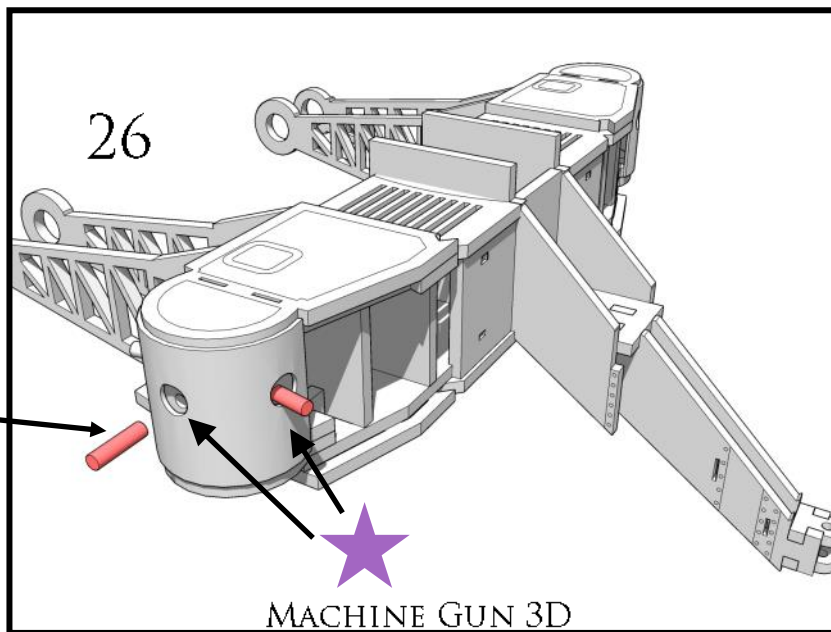
25



NOTE SPACES AT TOP AND  
BOTTOM

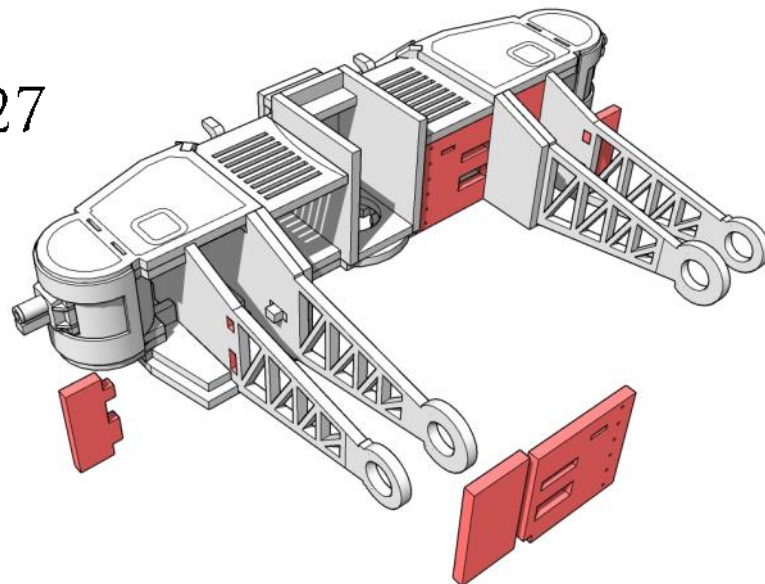
26

APPROX 12MM  
LENGTH OF 3MM  
DIA. DOWEL.

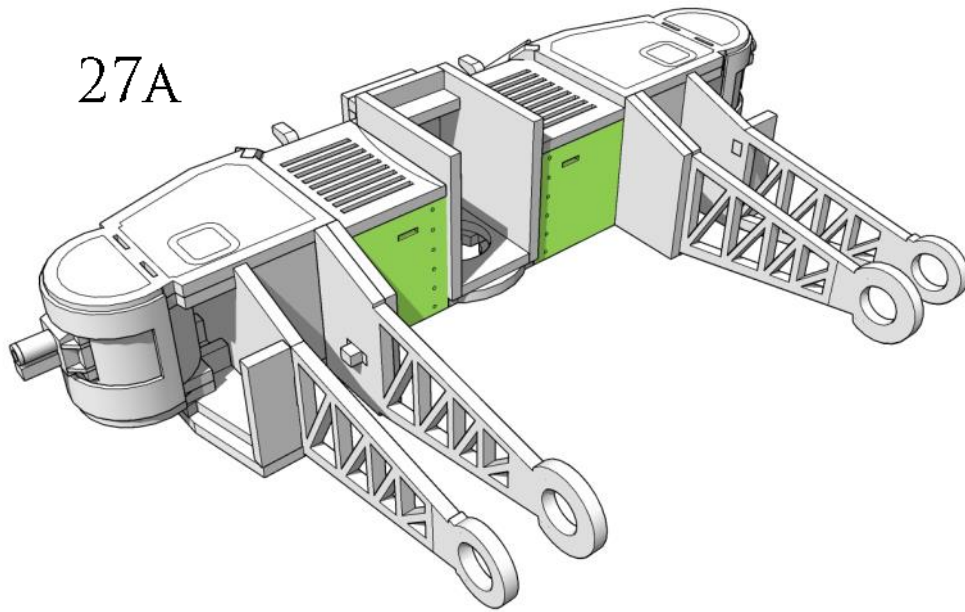


MACHINE GUN 3D  
PARTS  
GOES HERE

27

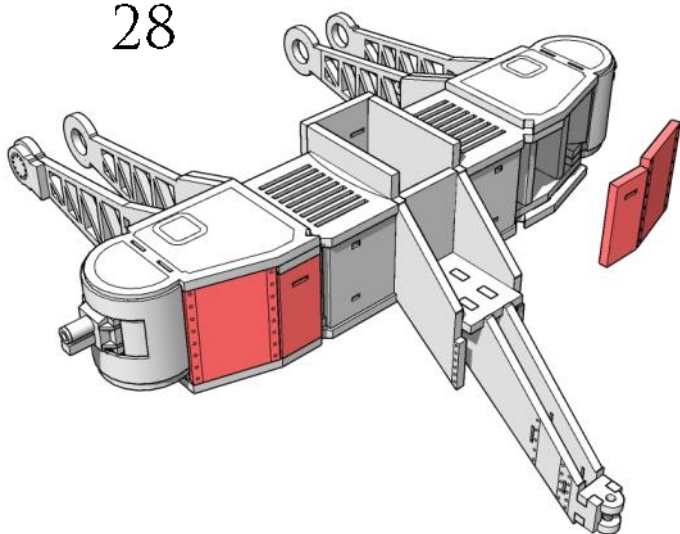


27A

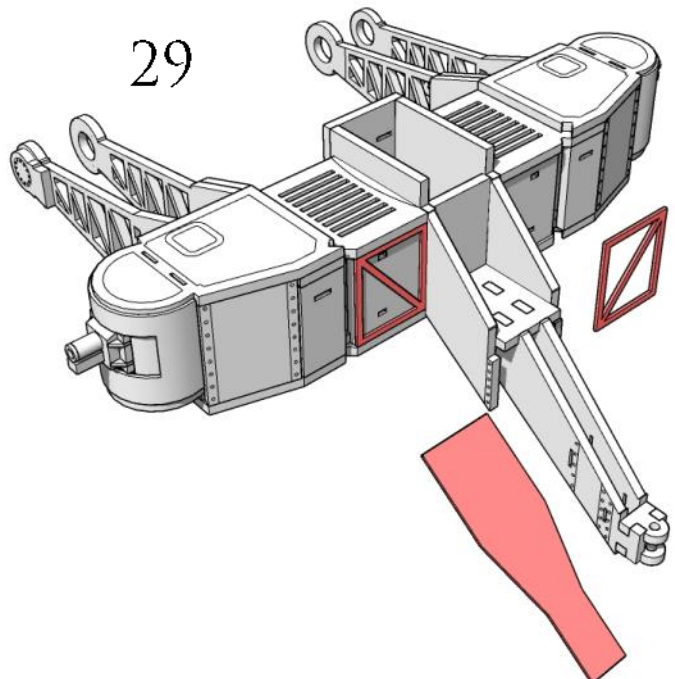


THE FINAL DRIVE HOUSINGS IN STEP 51/52/53 ARE COMPLETELY MADE UP, AND NOT SUPPORTED BY ANY REFERENCE. I JUST THOUGHT THEY LOOKED COOL AND NICELY FILLED AN OTHERWISE BORING SPACE . THE PARTS INDICATED ABOVE ARE PROVIDED SHOULD YOU CHOOSE TO BE MORE HISTORICALLY ACCURATE.

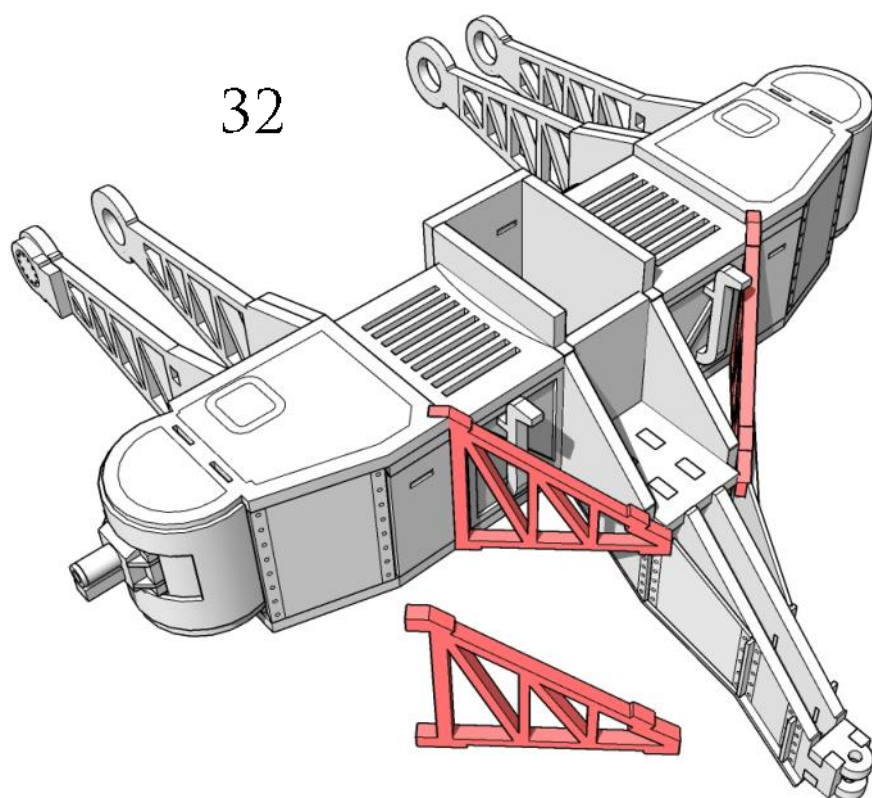
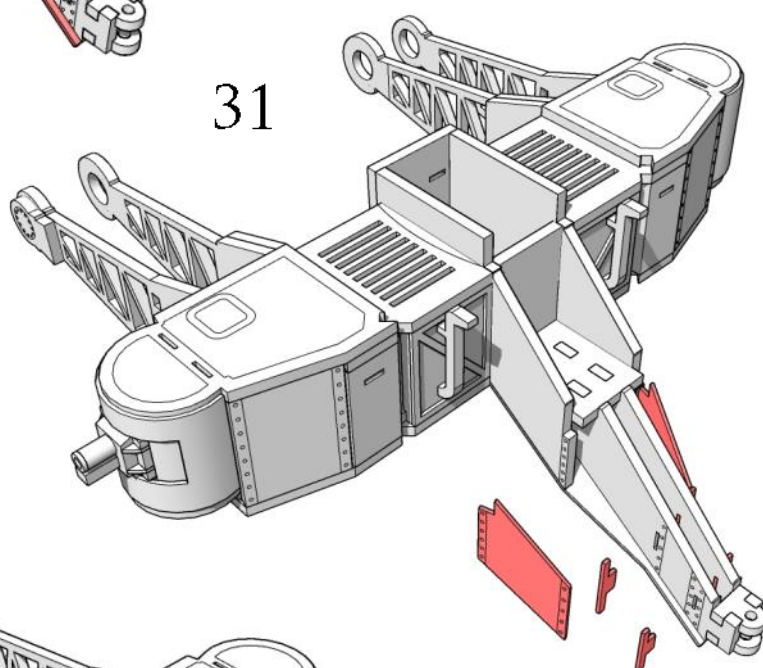
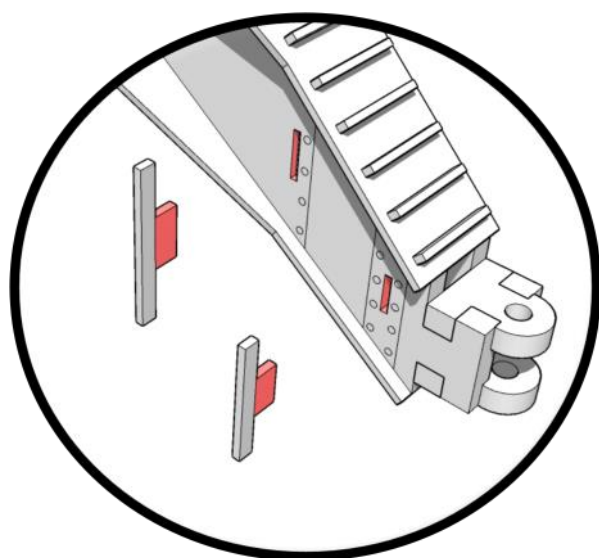
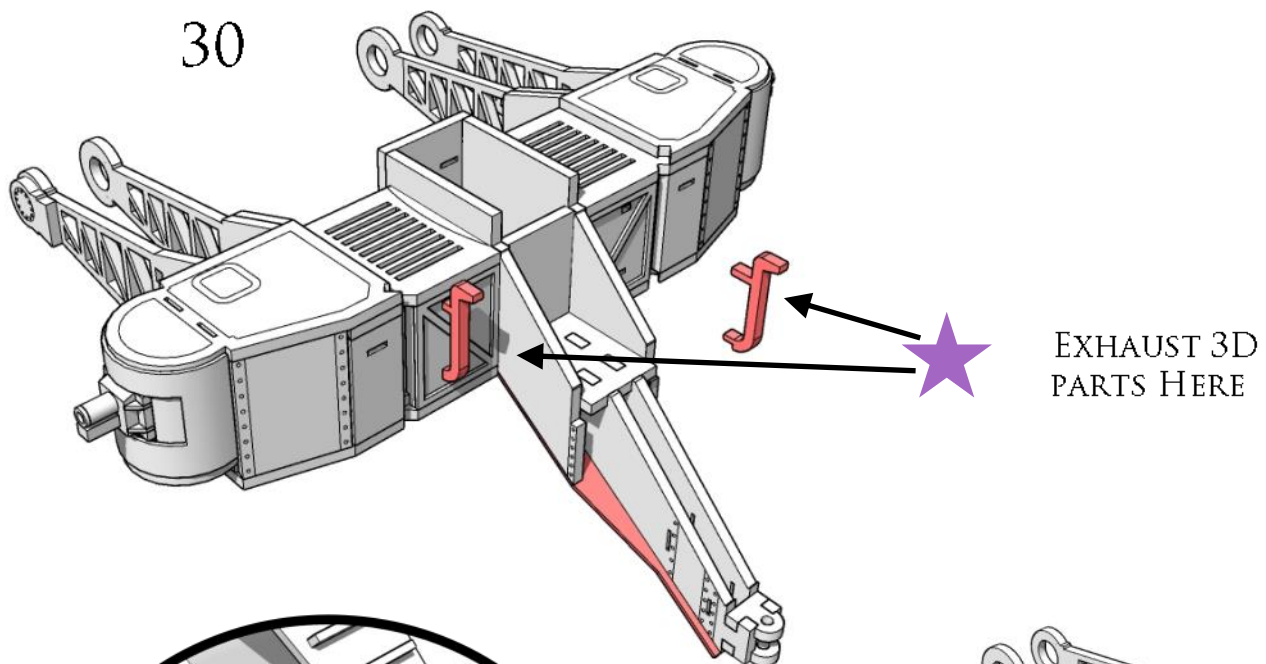
28



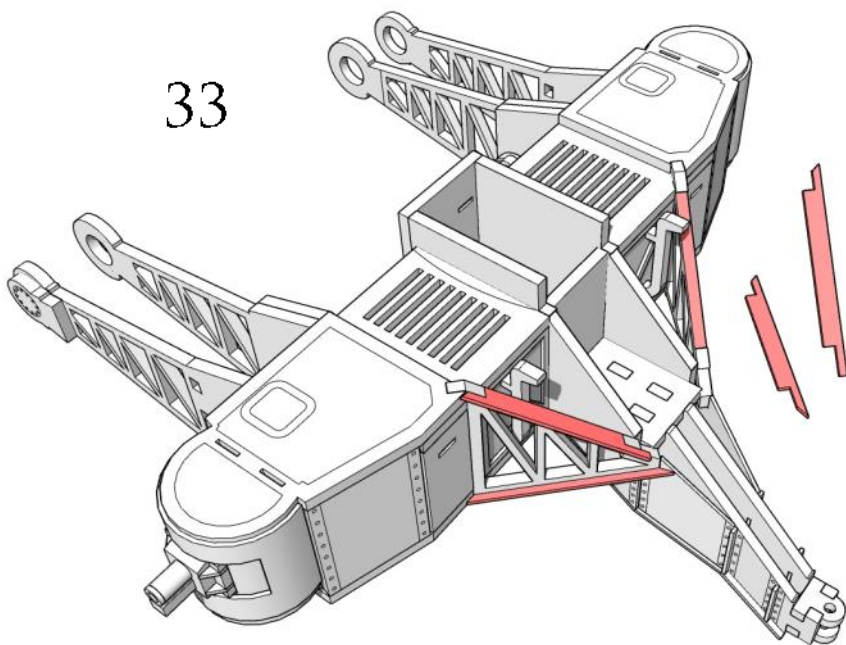
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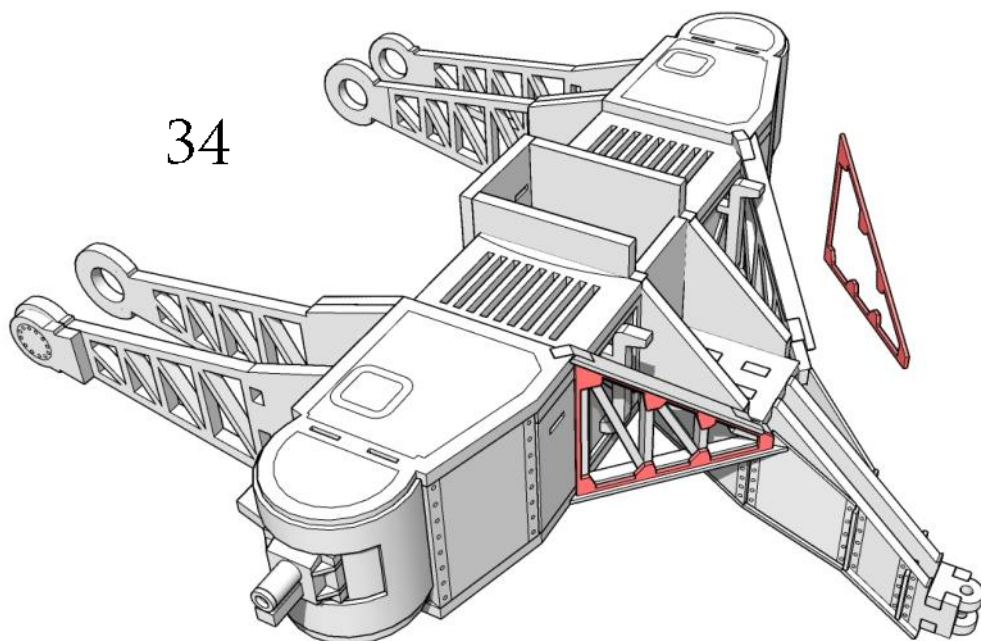




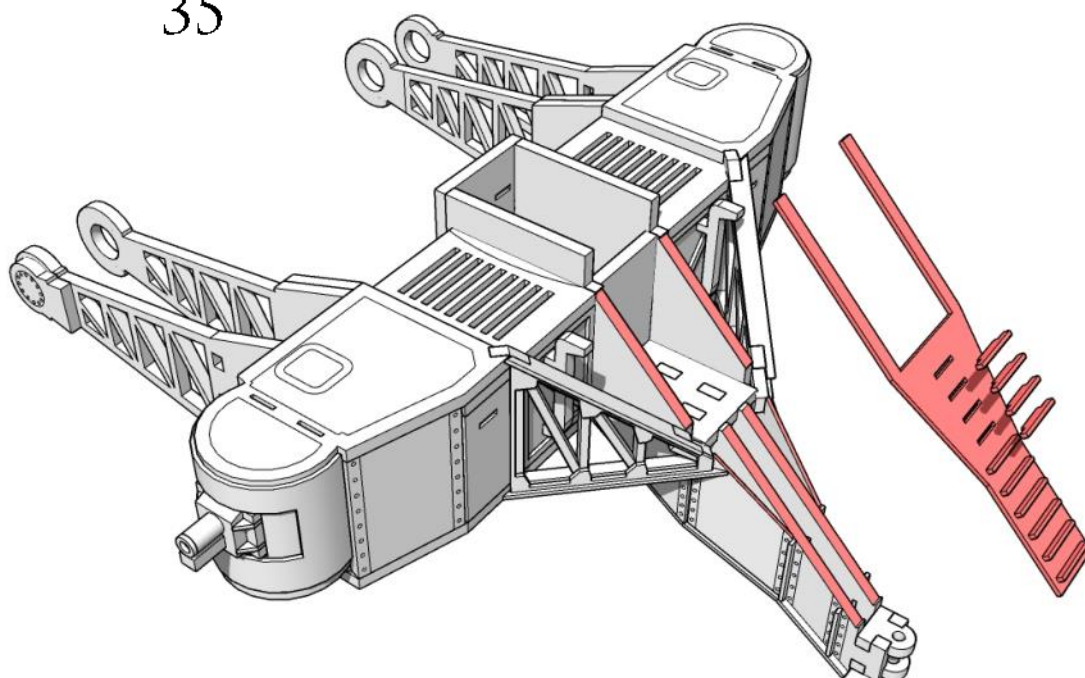
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34

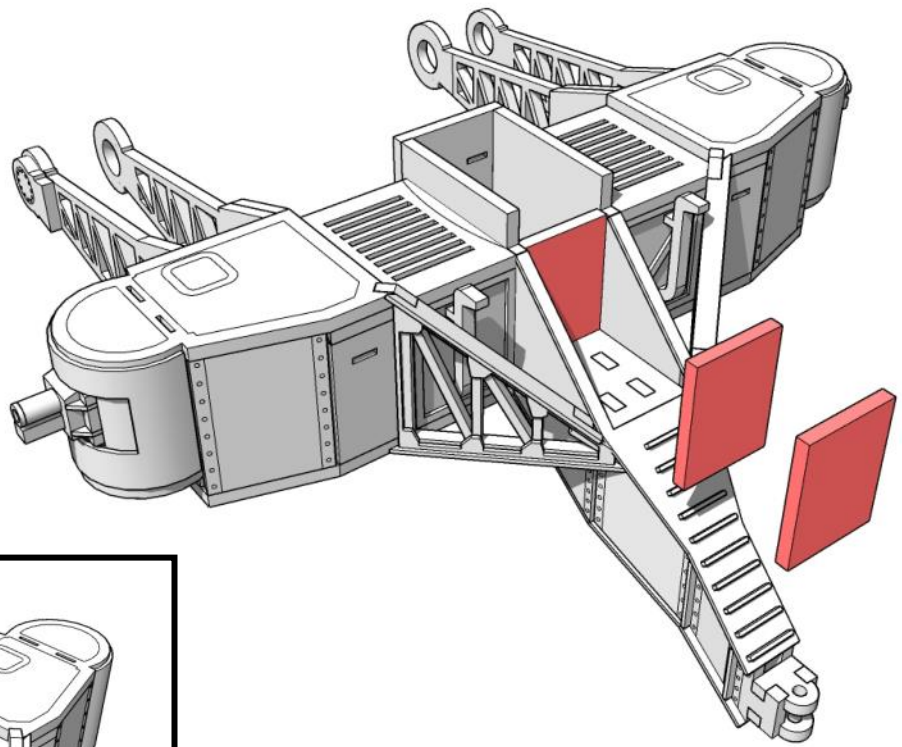


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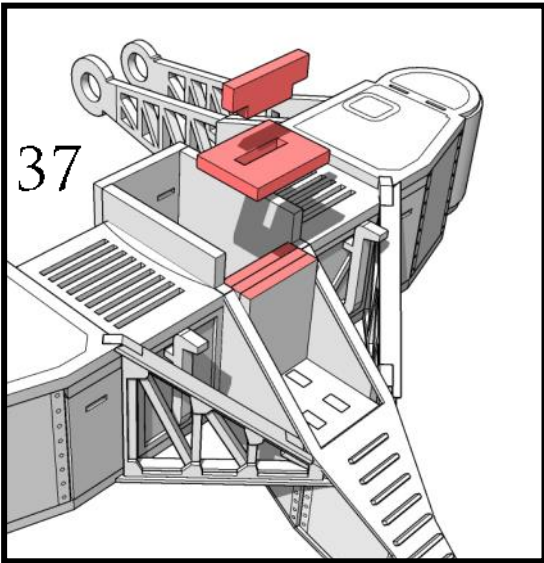




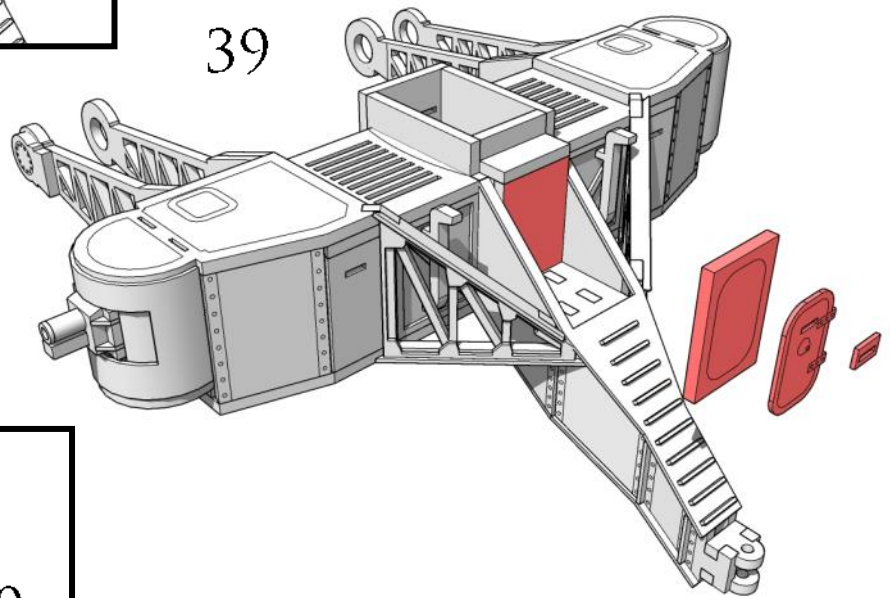
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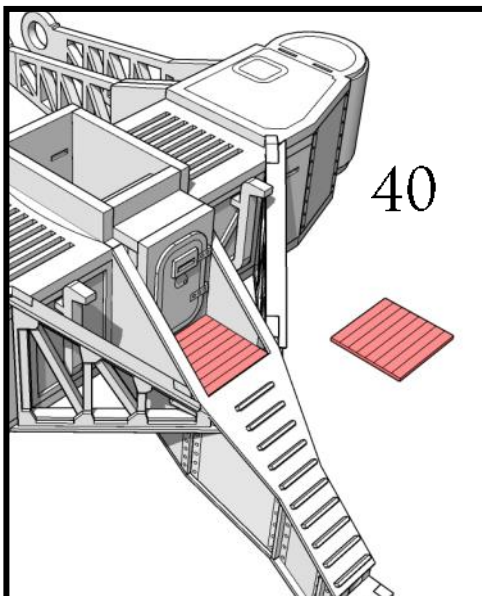
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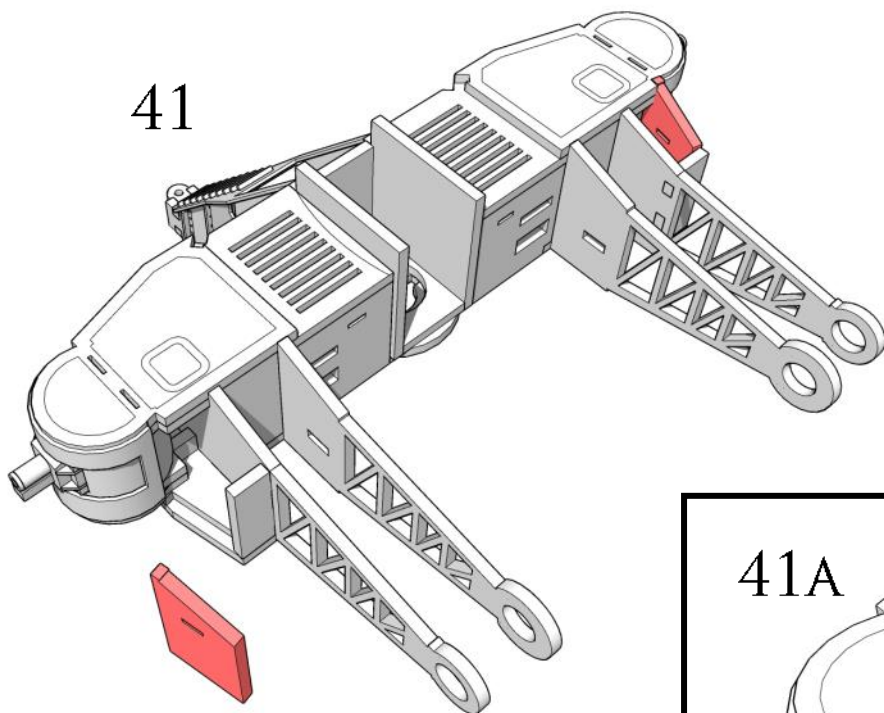
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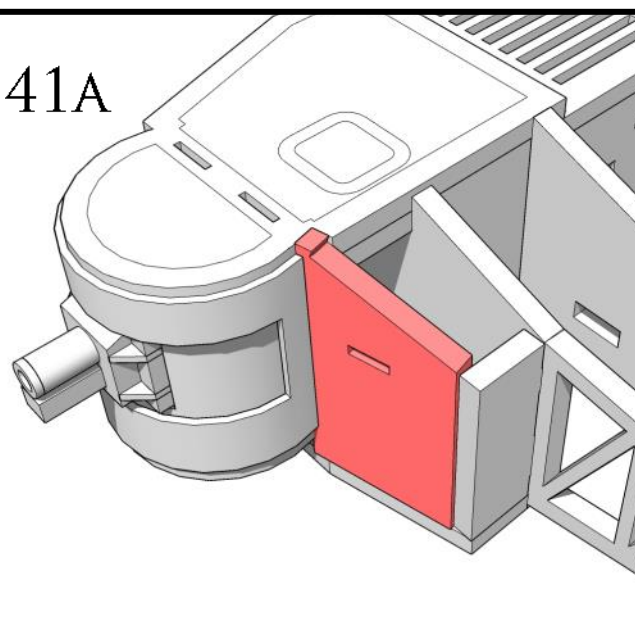
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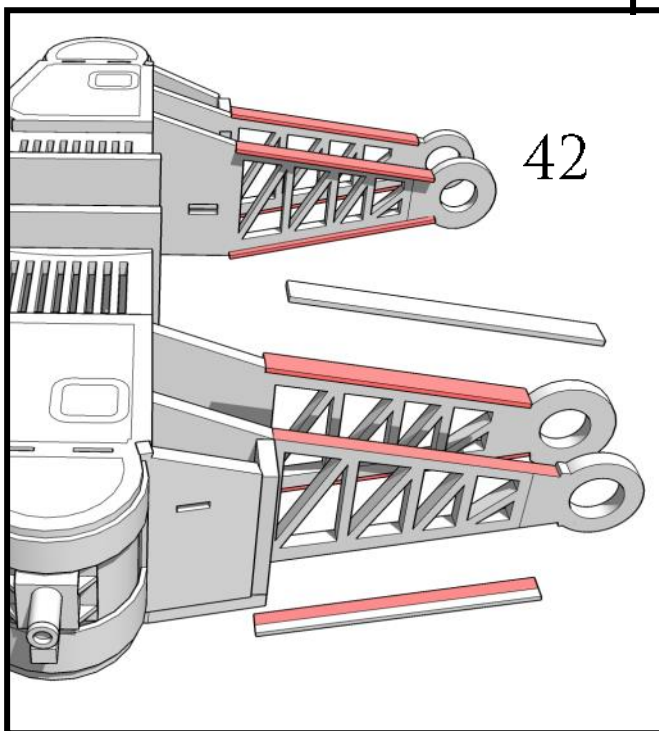
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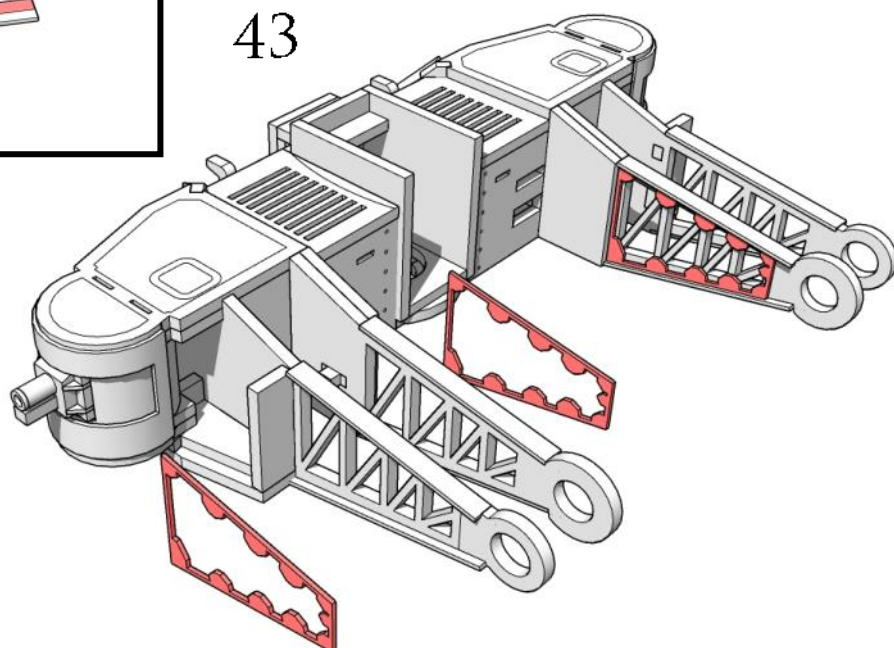
41A



42

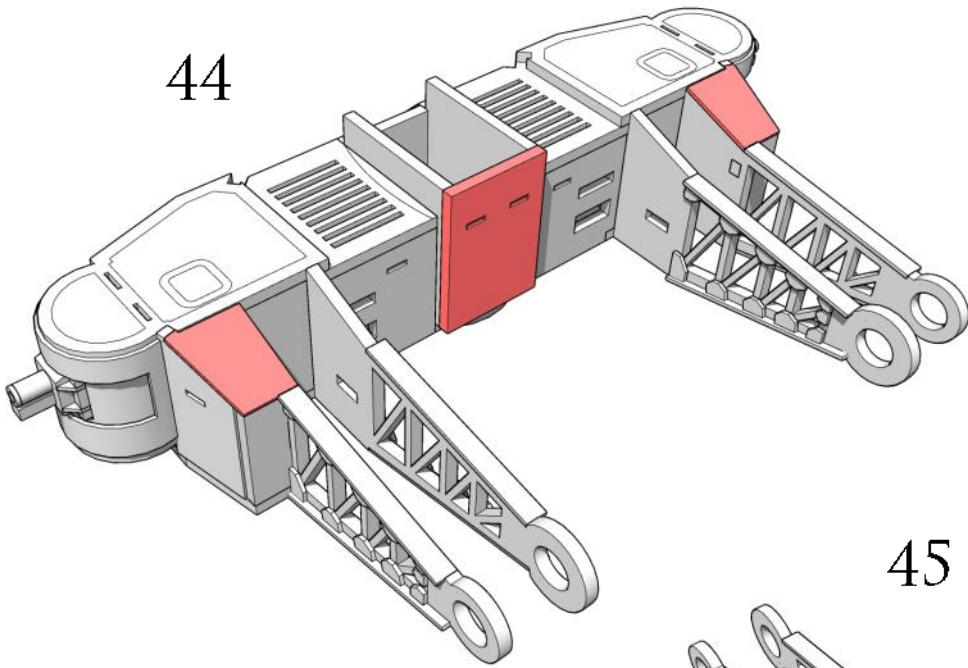


43

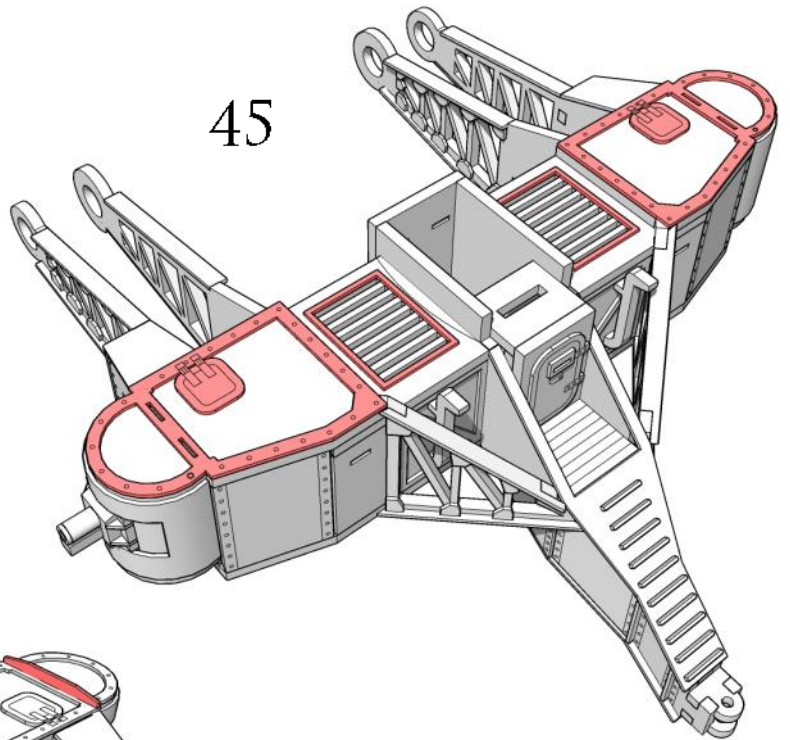




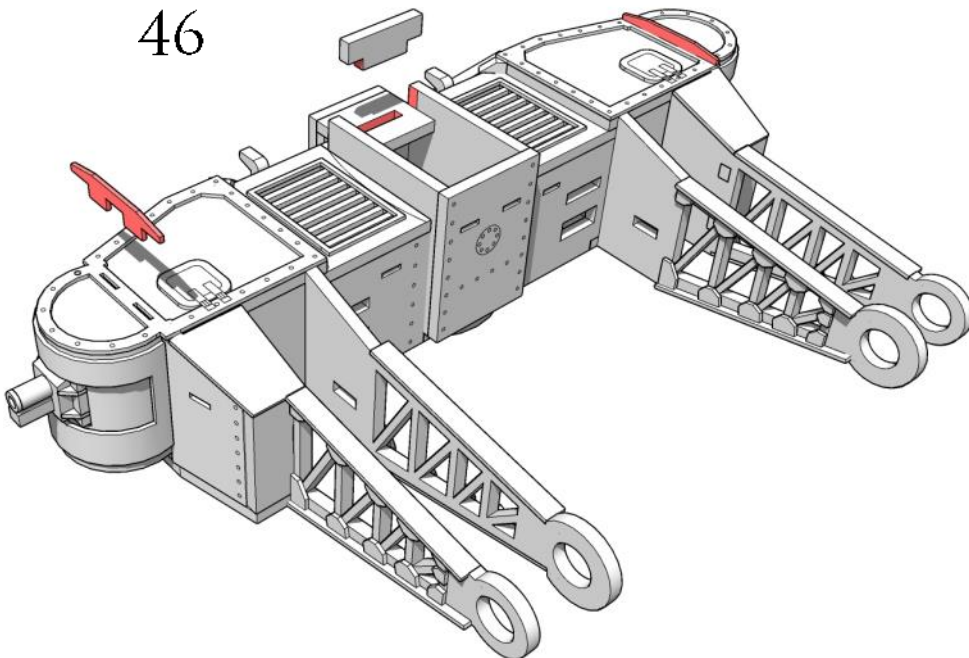
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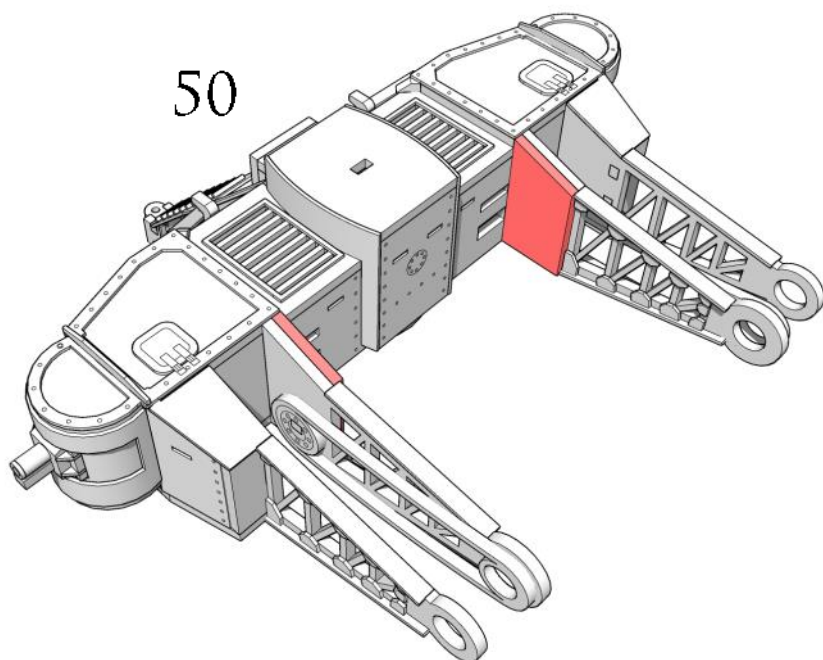
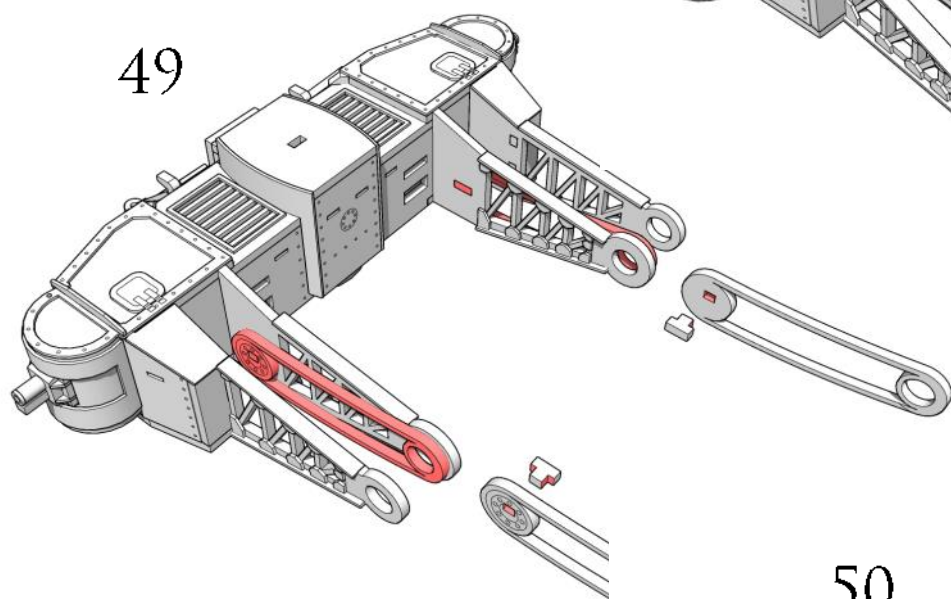
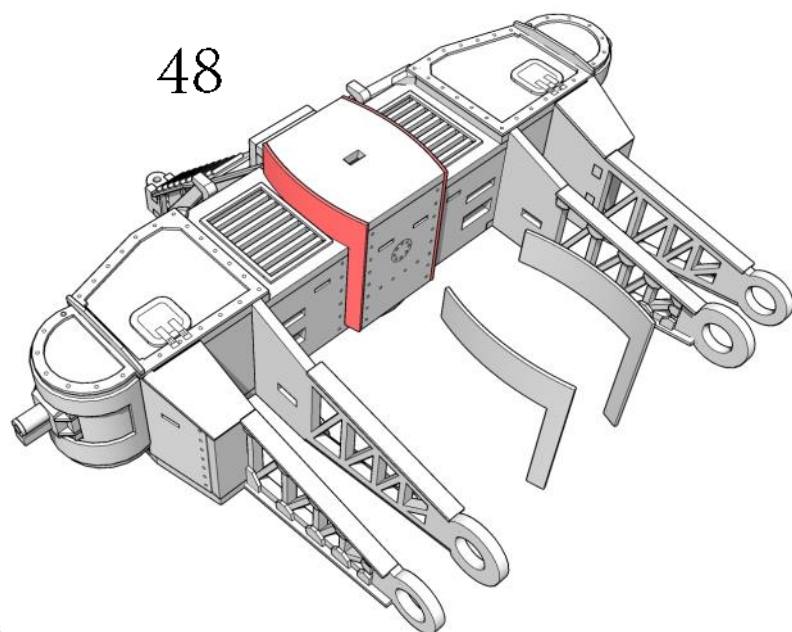
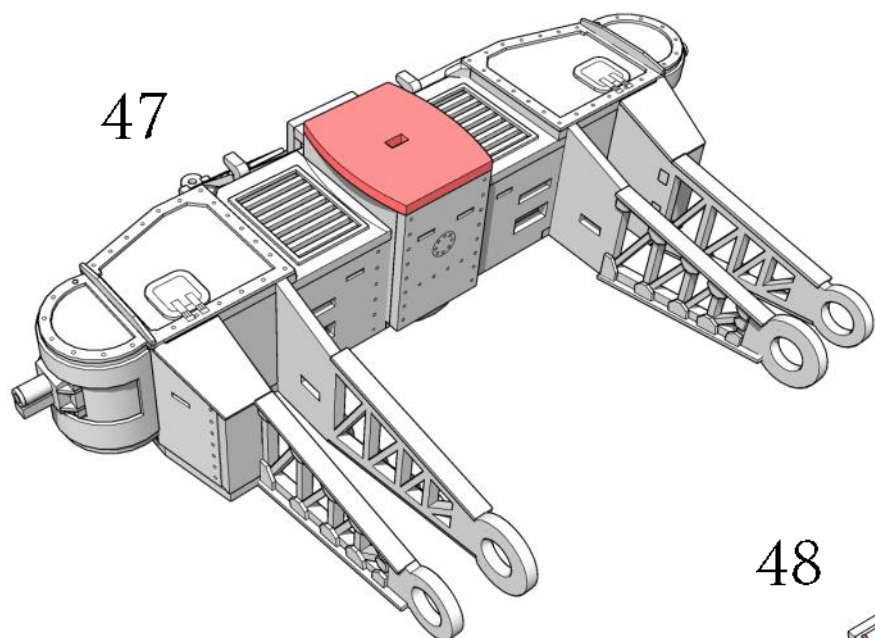


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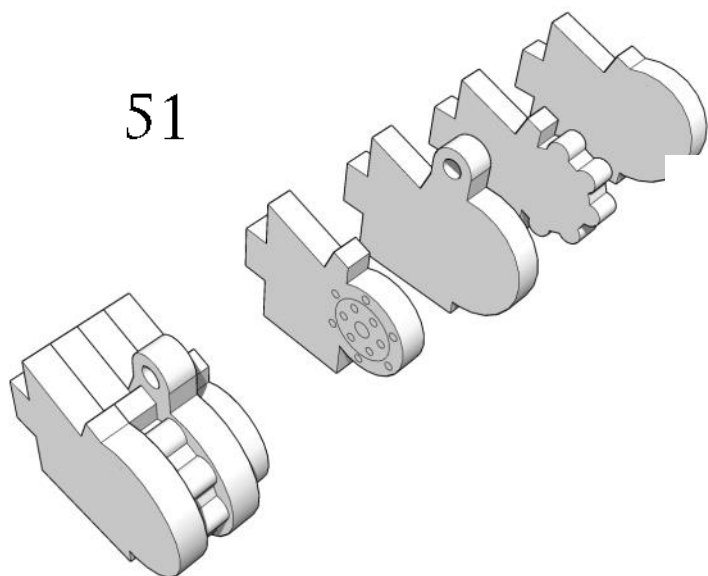
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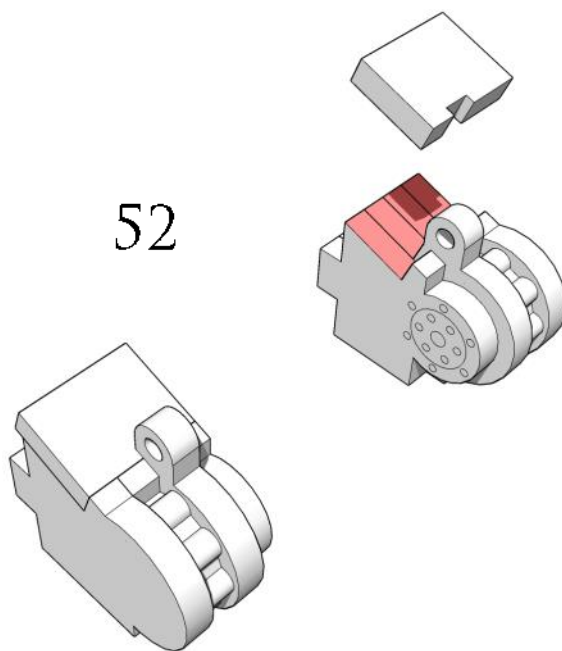




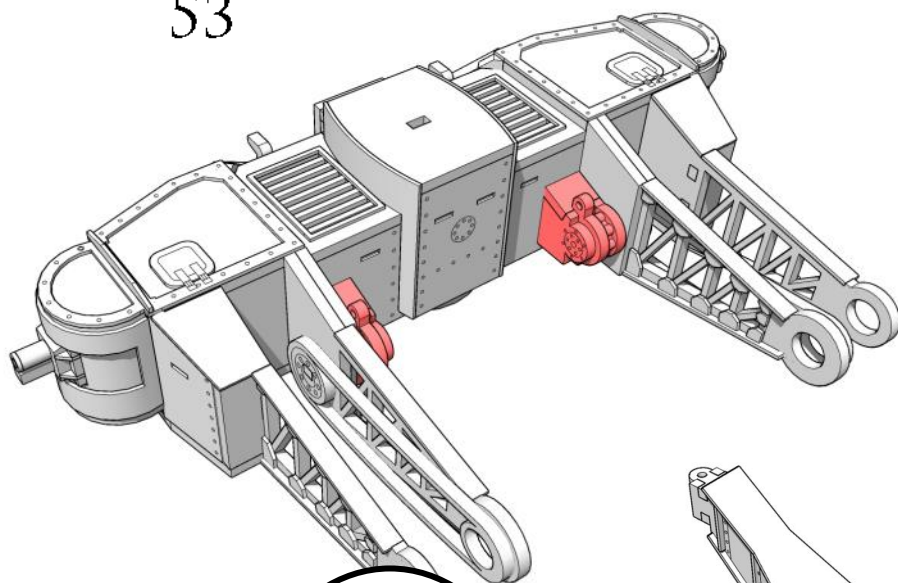
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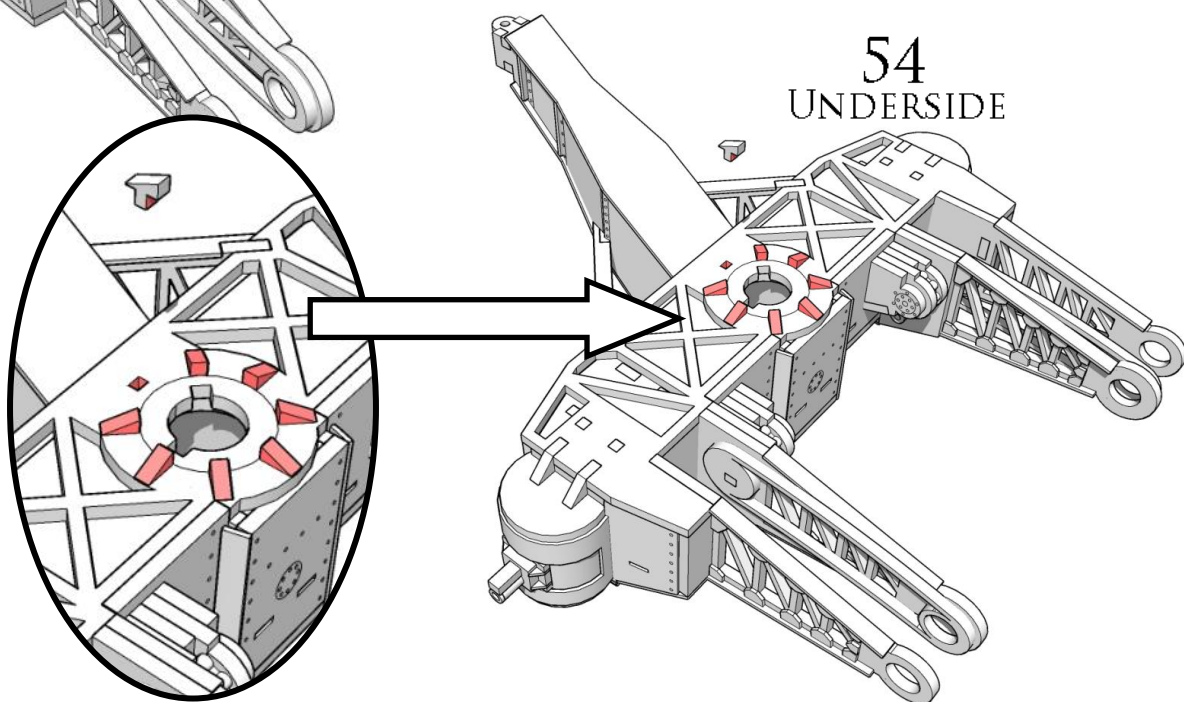
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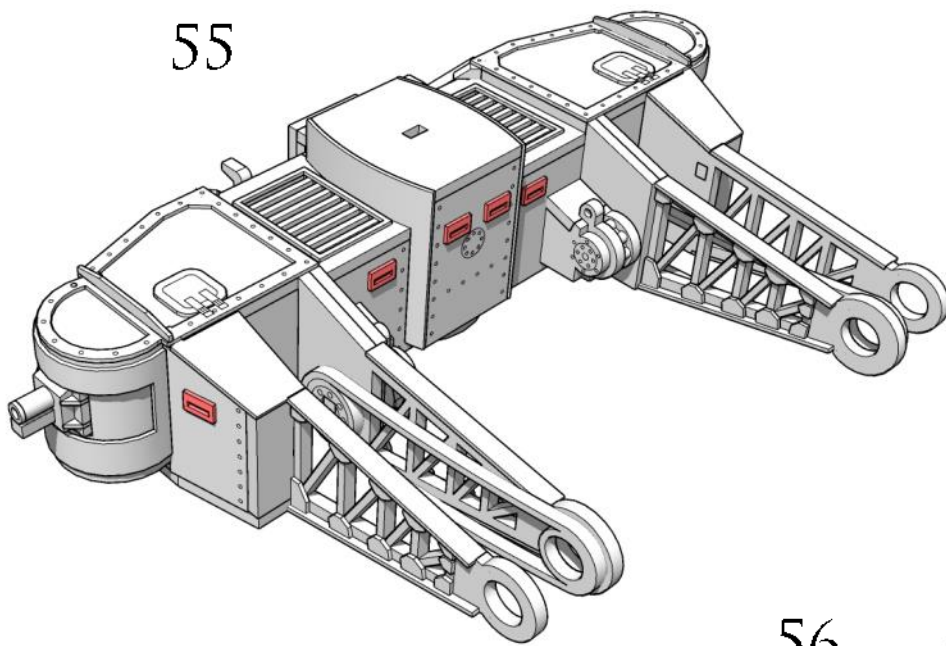
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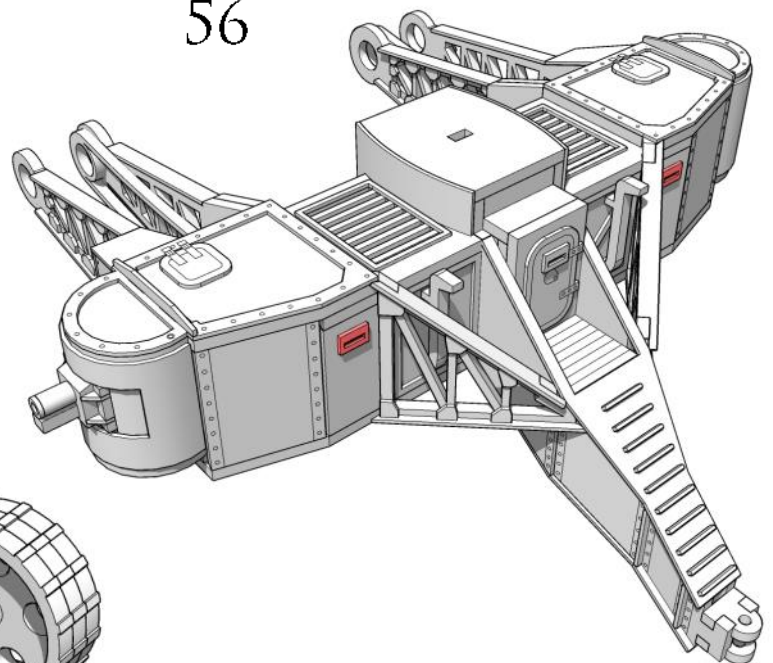
54  
UNDERSIDE



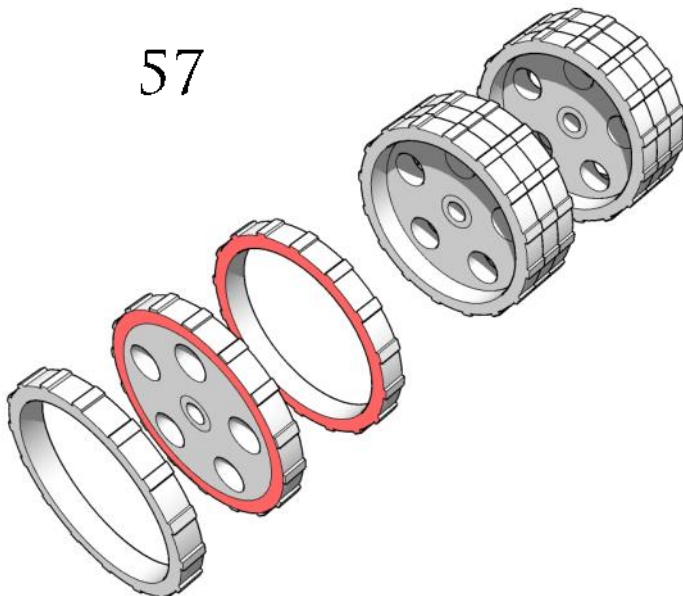
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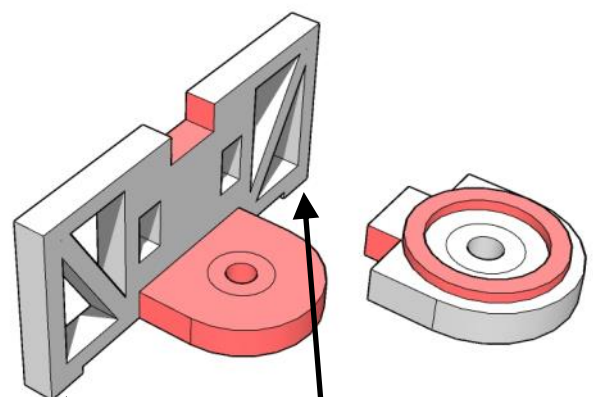
56



57



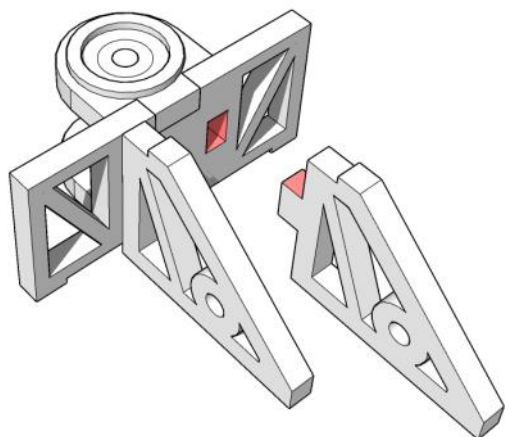
58



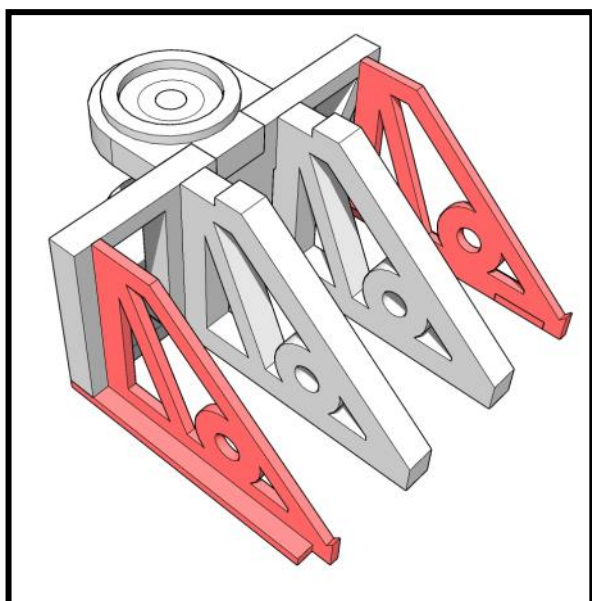
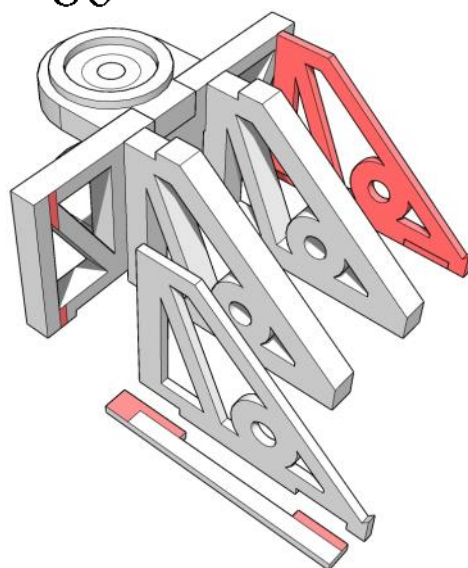
SMALL BUMPS TO BOTTOM



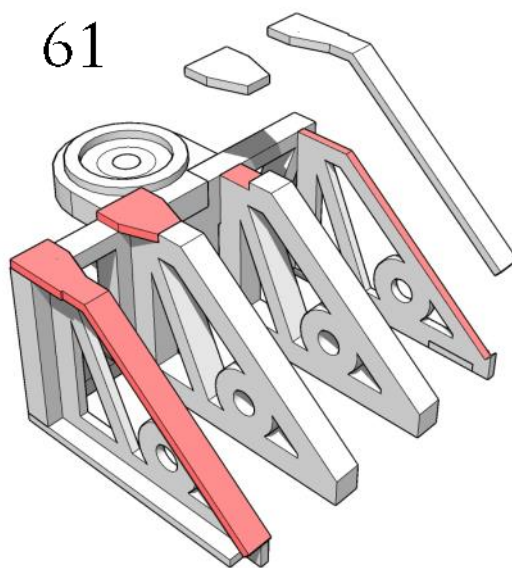
59



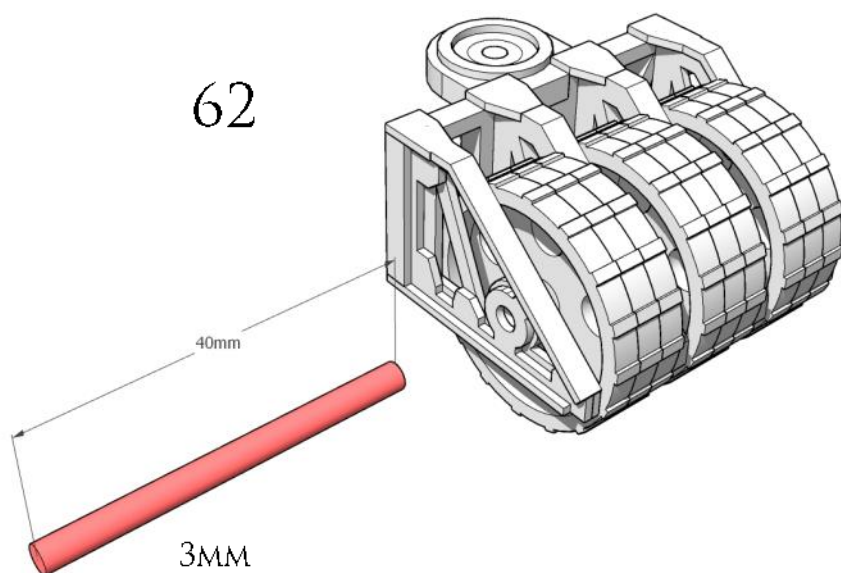
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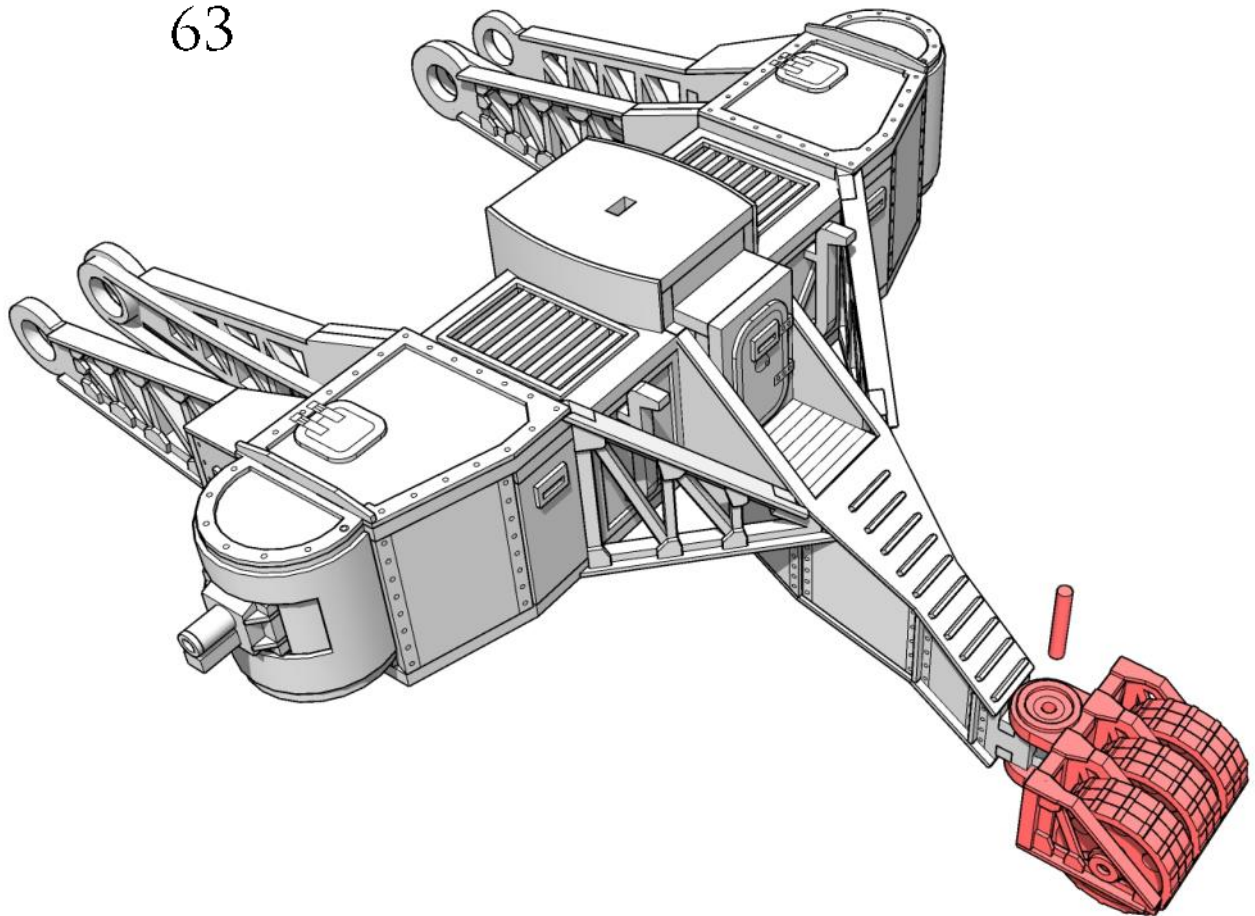
61



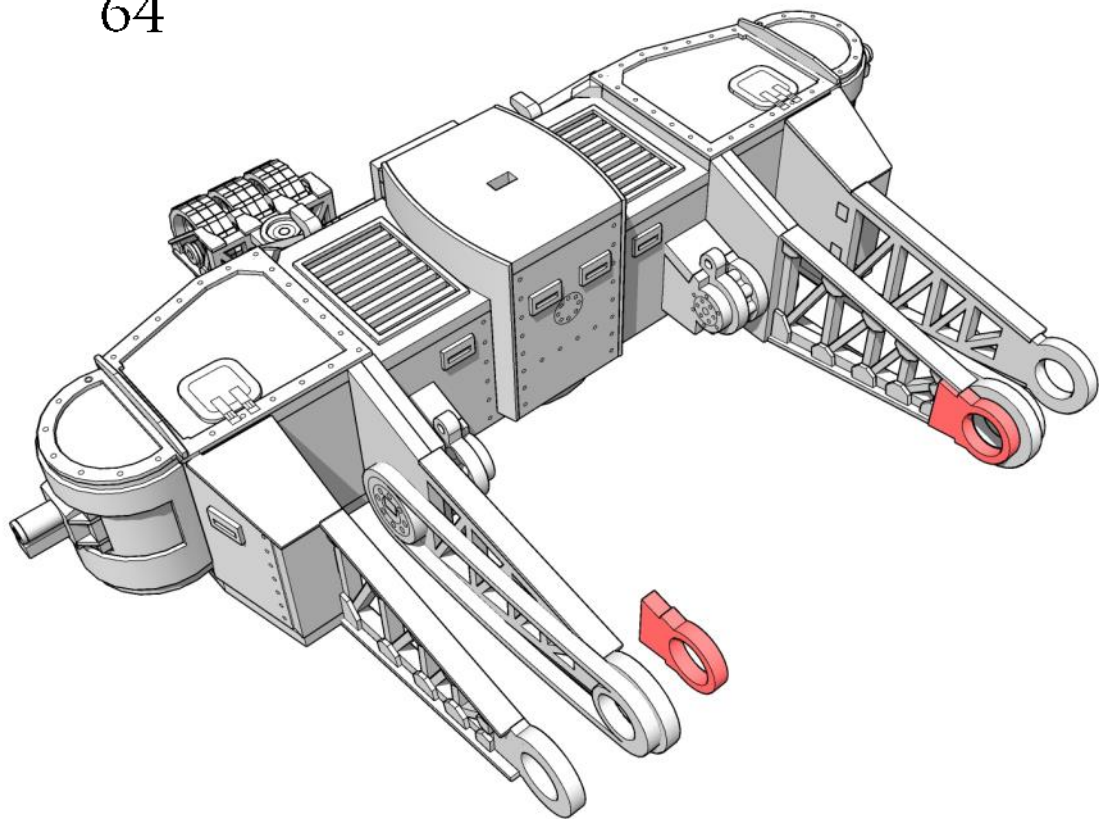
62



63



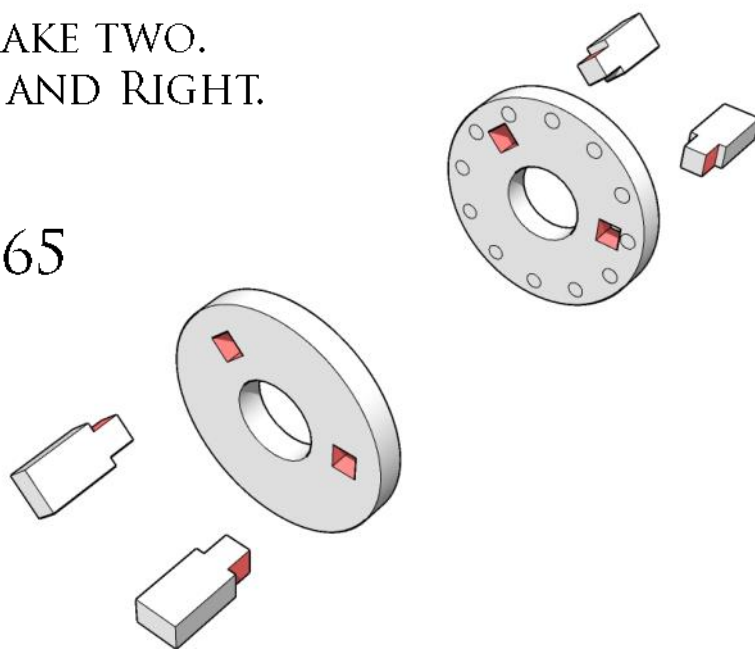
64



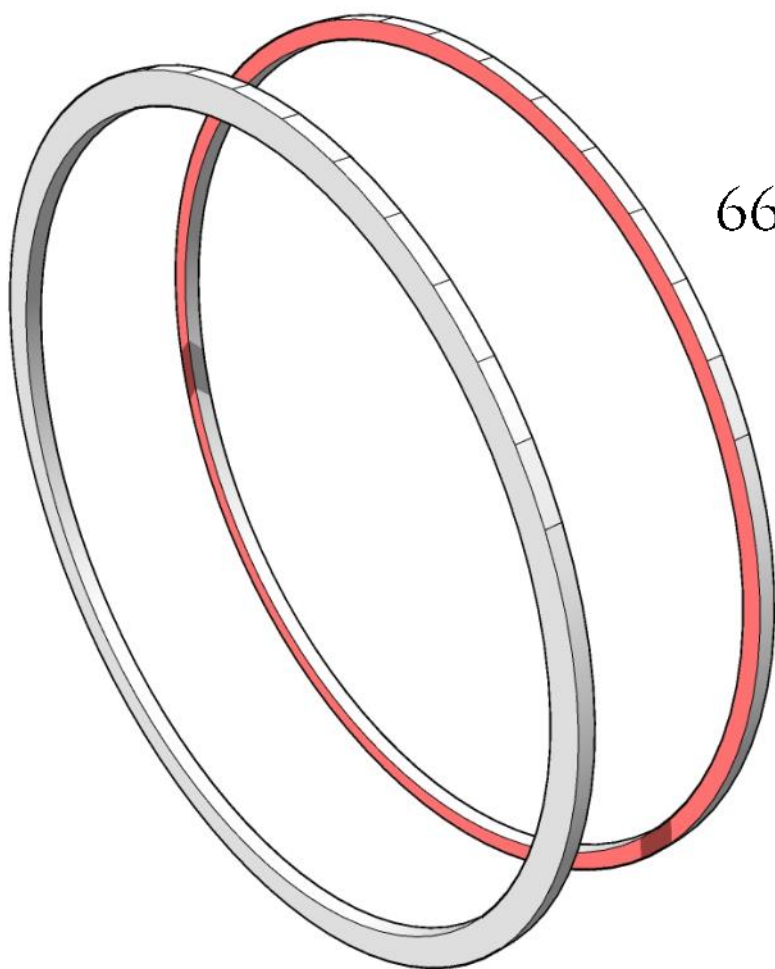


MAKE TWO.  
LEFT AND RIGHT.

65



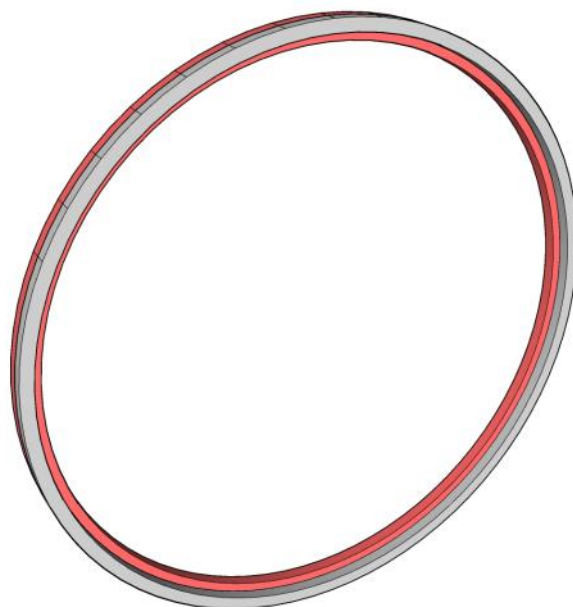
66



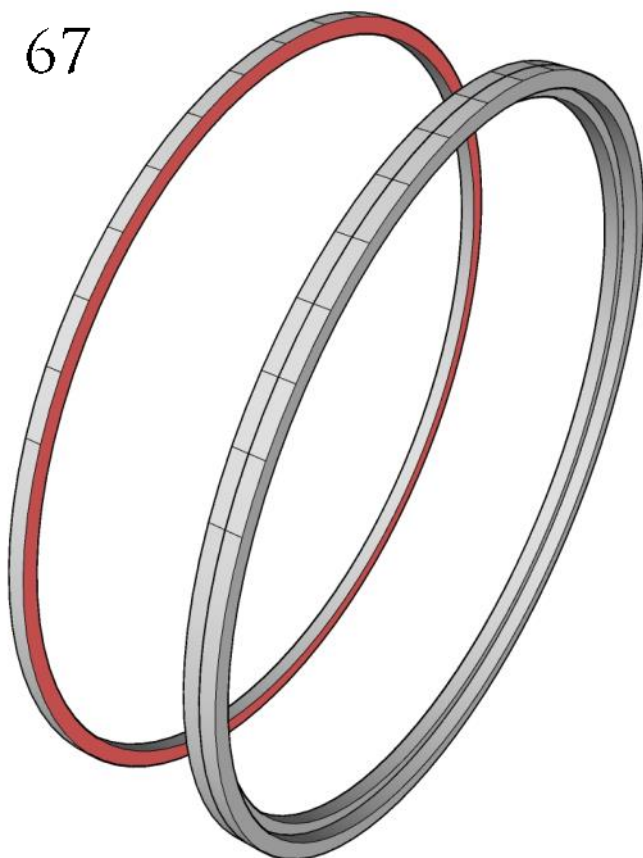
WIDE RING AND  
NARROW RING.

BE SURE THEY LINE  
UP ACCURATELY  
AROUND THE EDGES.

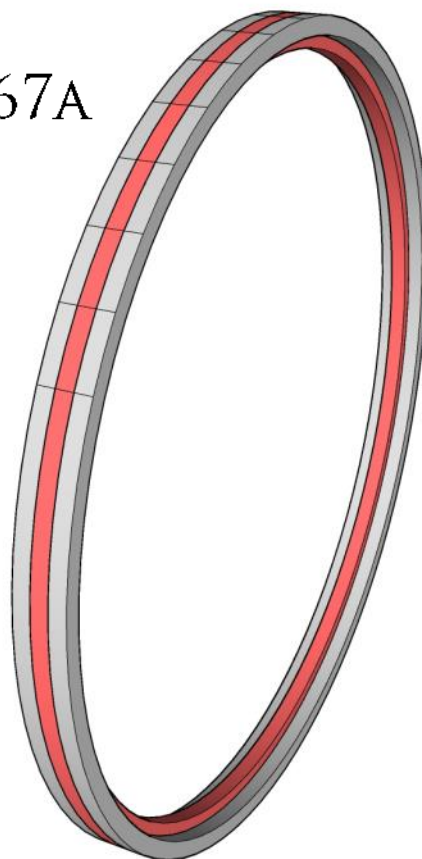
66A



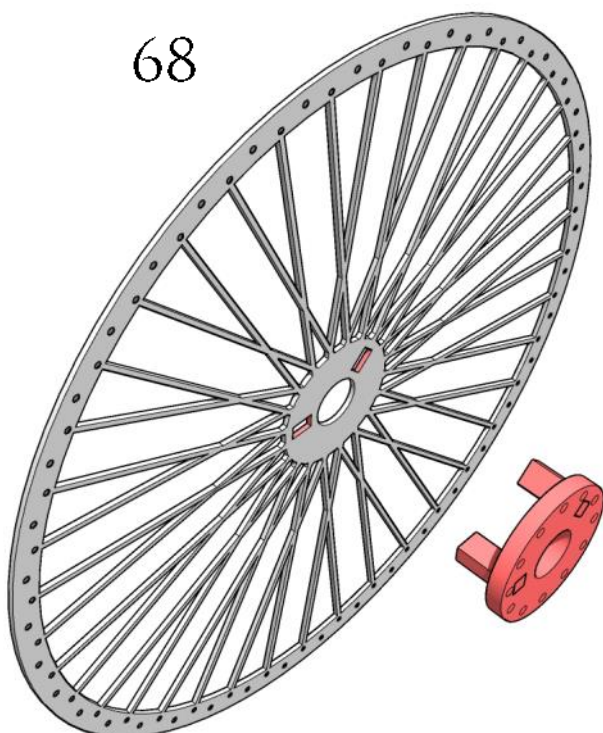
67



67A

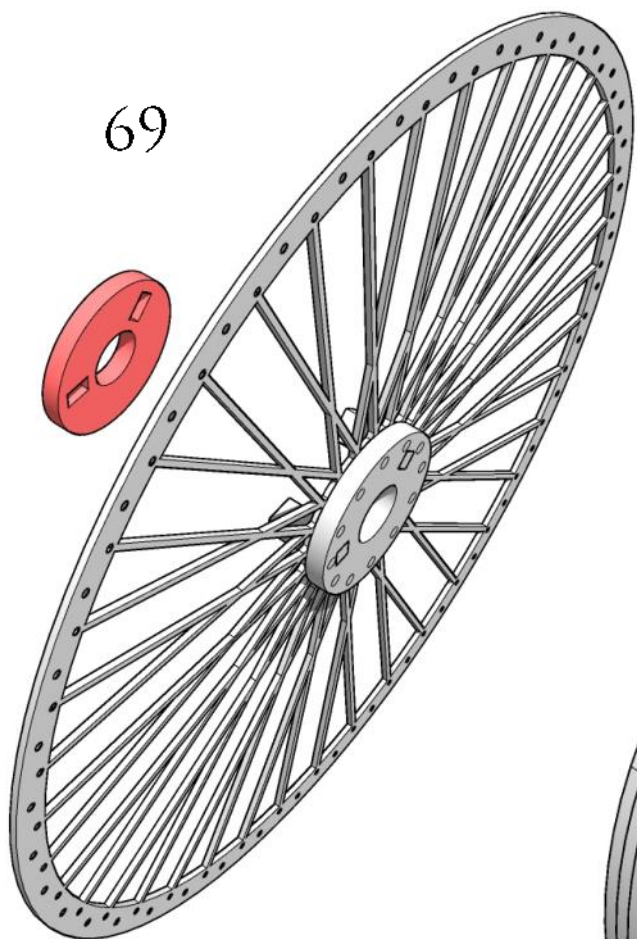


68

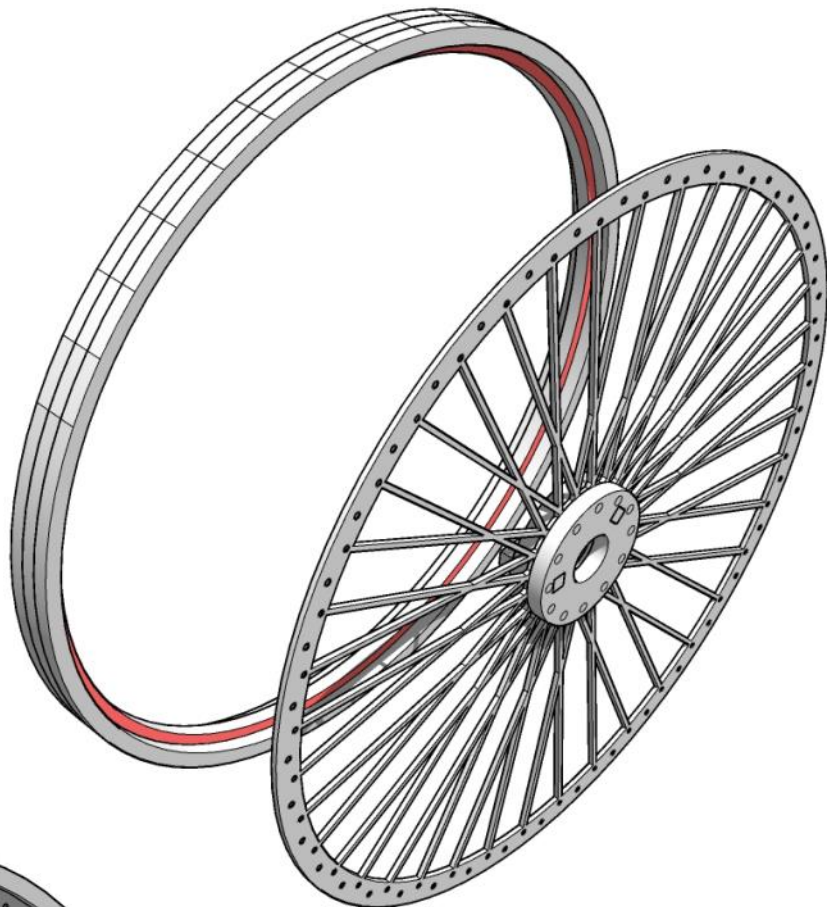




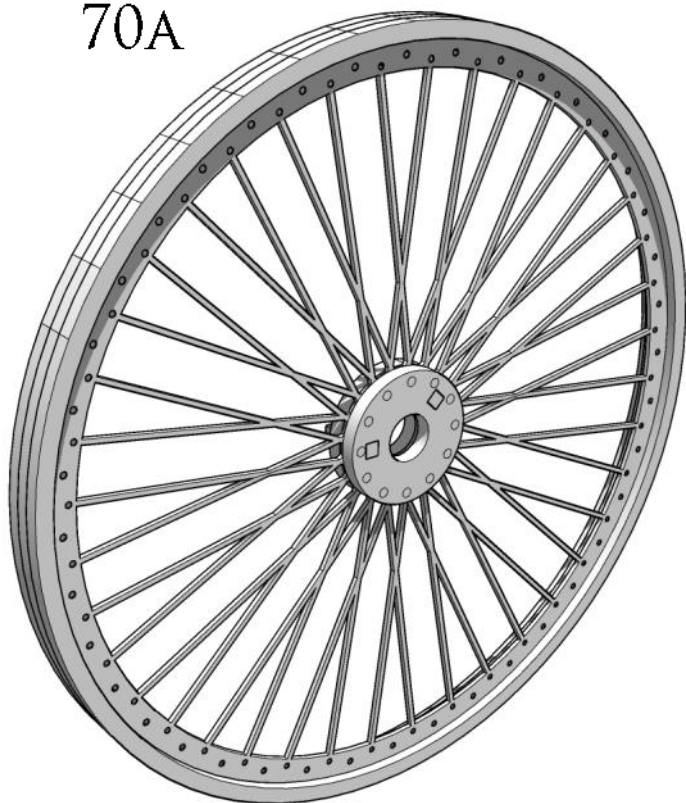
69



70

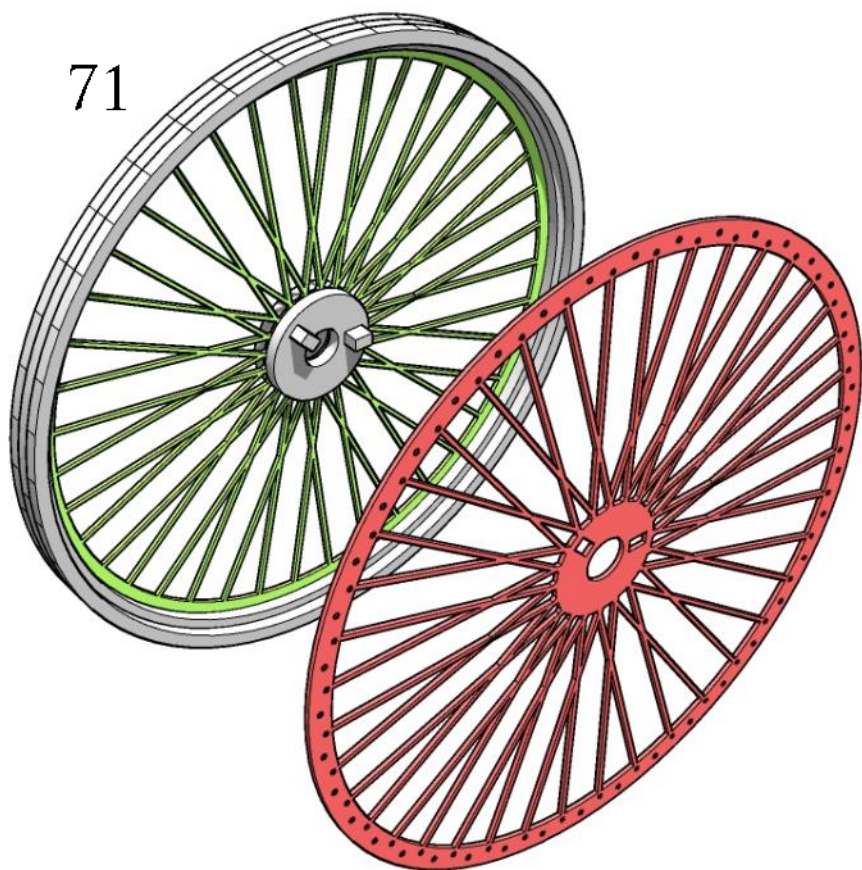


70A





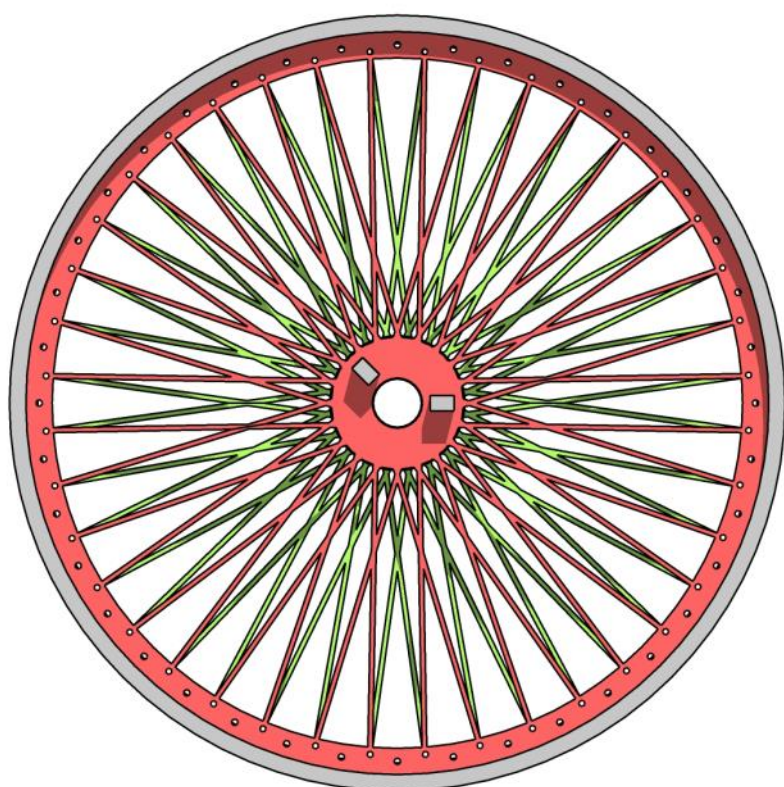
71



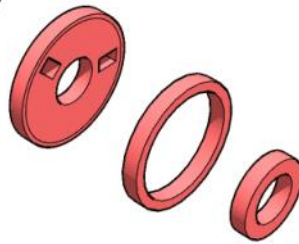
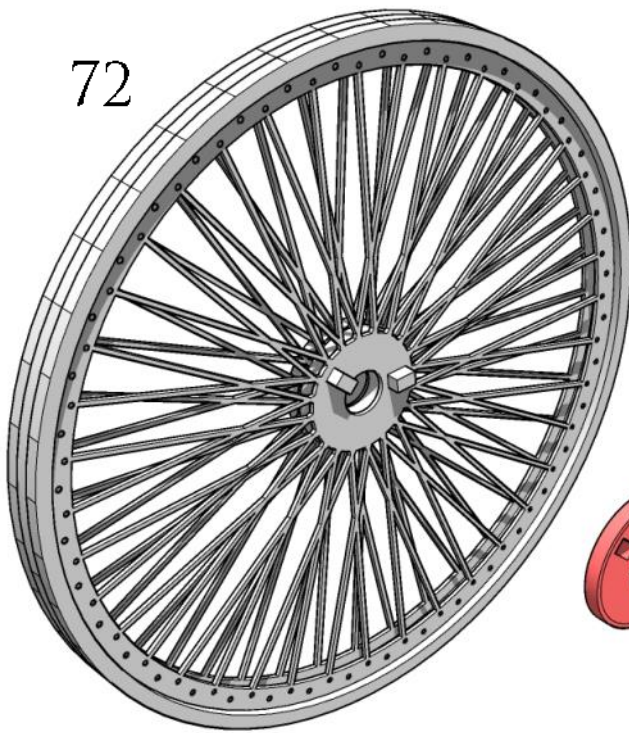
71A



71B

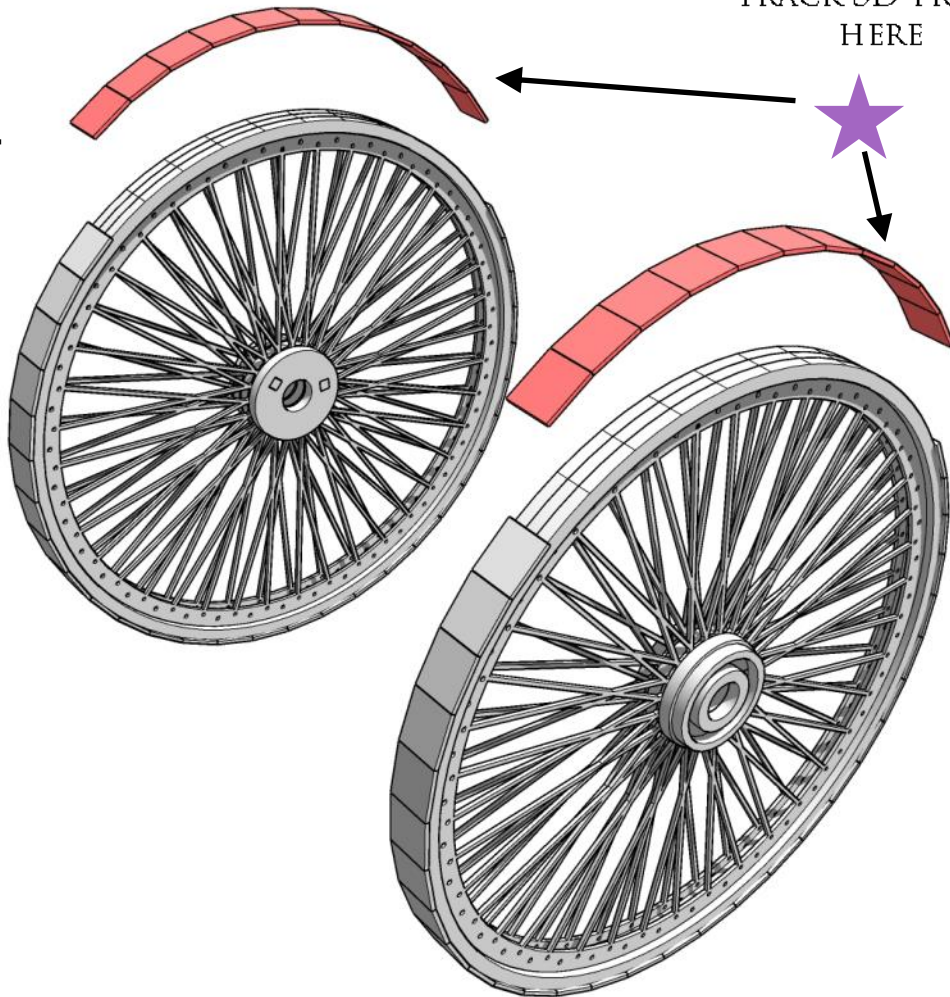




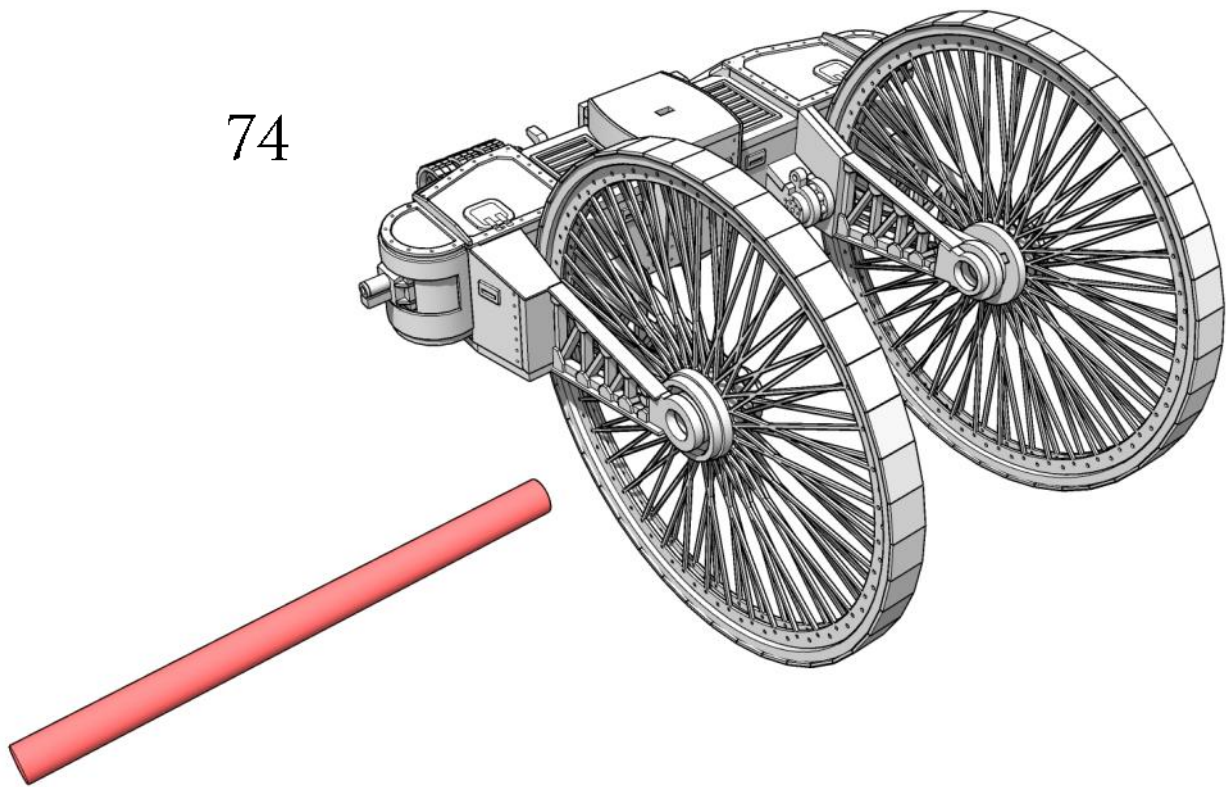


USE CURVED  
TRACK 3D PRINTS  
HERE

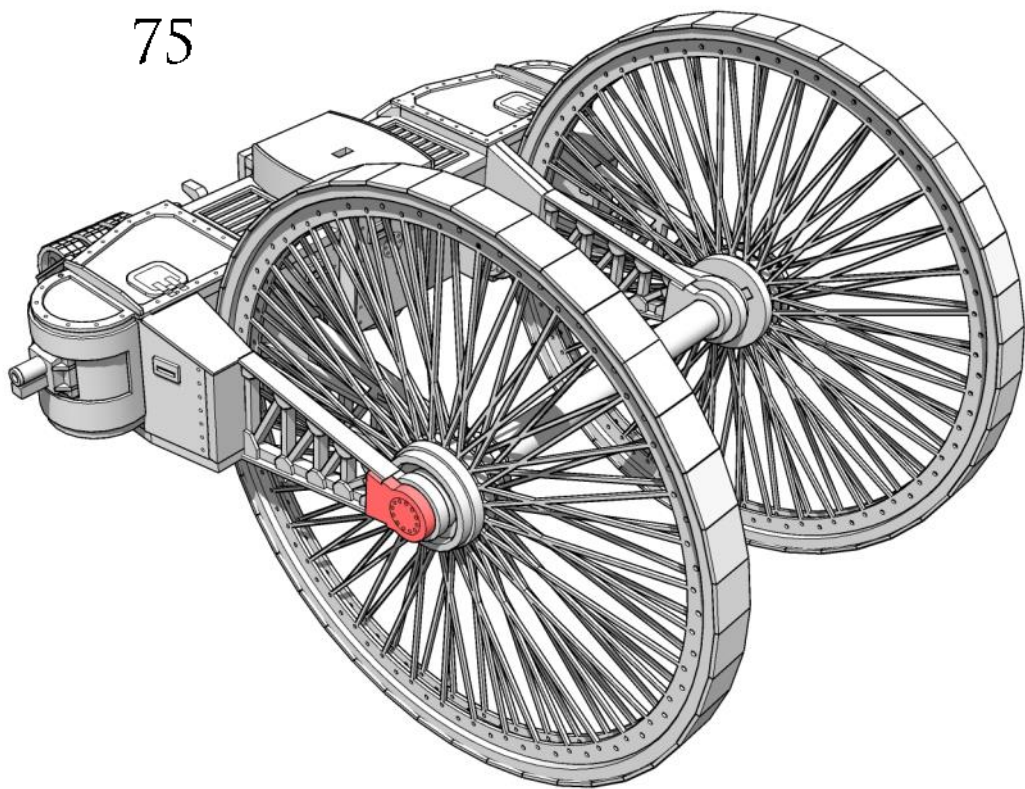
73



74

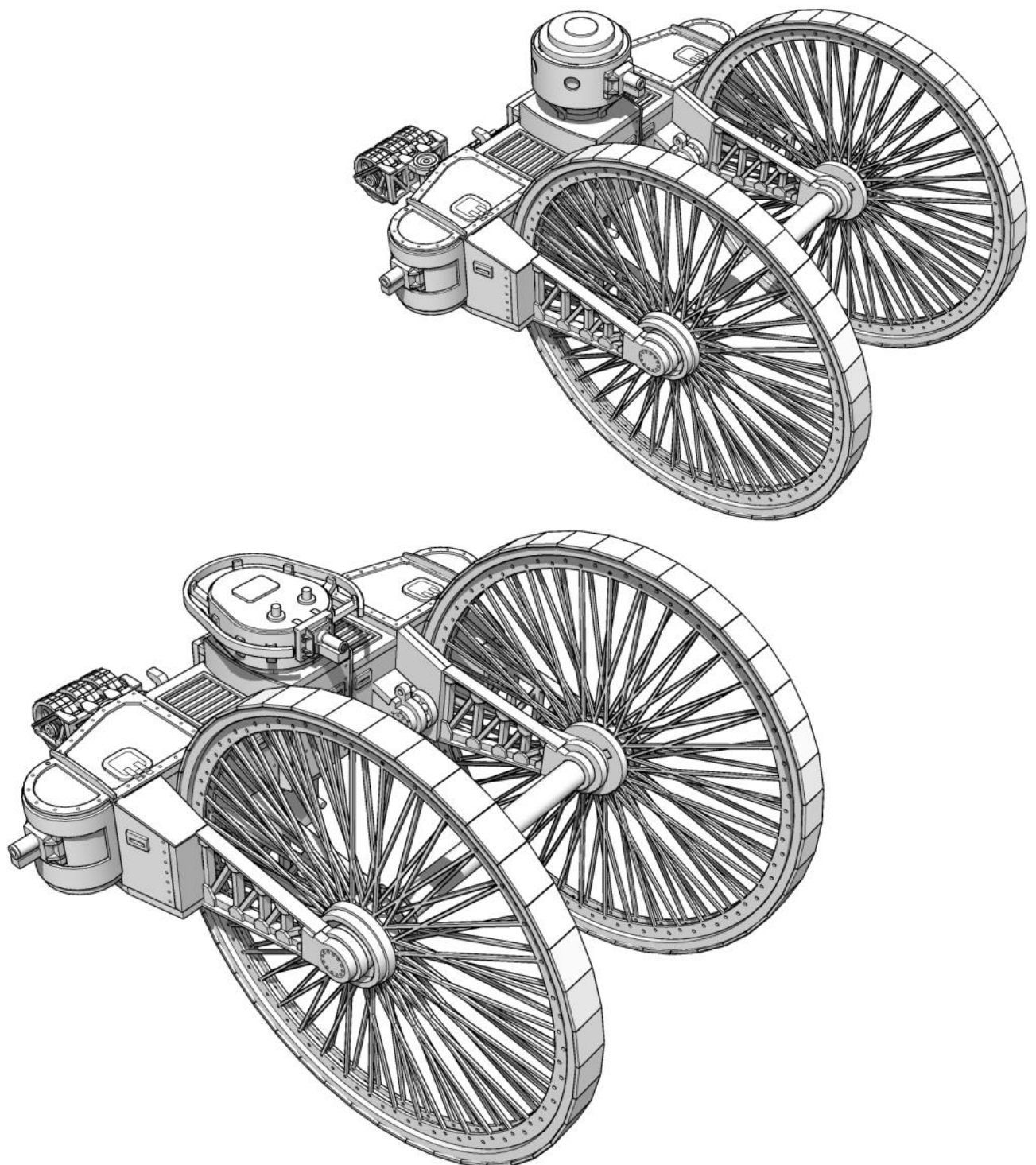


75



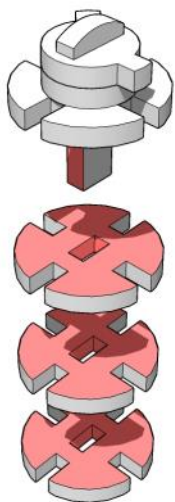


TWO DIFFERENT TURRET OPTIONS ARE PROVIDED. THE FIRST, WHICH IS MORE HISTORICALLY ACCURATE, AND A SECOND WHICH I STOLE FROM A T-35 TANK BECAUSE I THOUGHT IT LOOKED COOL AND VERY RUSSIAN. A PRODUCTION VERSION PERHAPS?

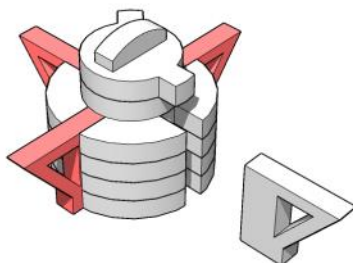


# HISTORICAL TURRET

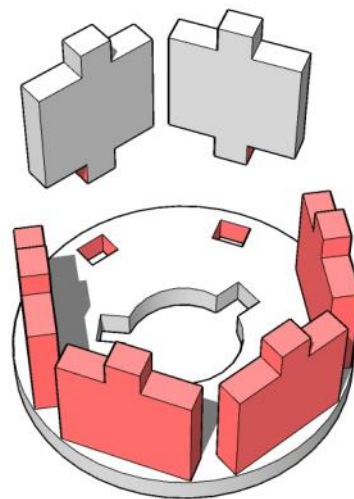
76



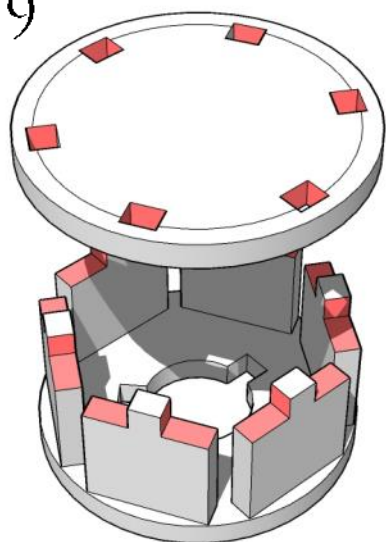
77



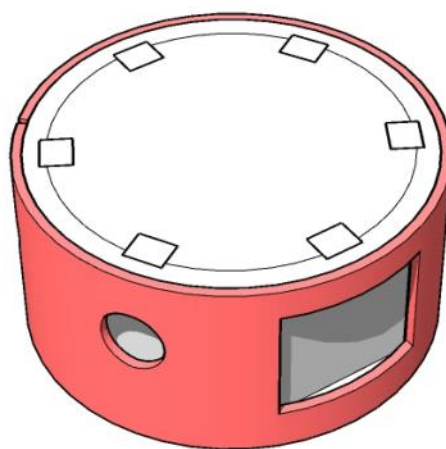
78



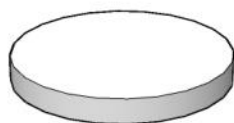
79



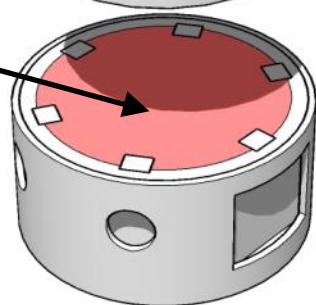
80



81



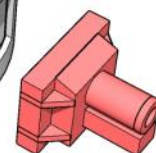
CURVED TOP  
3D PRINT  
GOES HERE



82



FROM ASSEM-  
BLY STEPS 14,  
15 AND 16

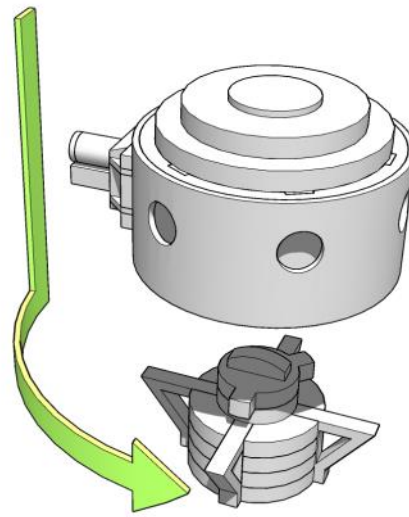


3D PRINTED  
CANNON  
GOES HERE



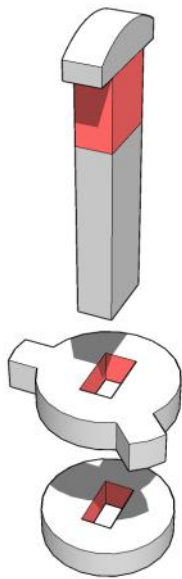


83

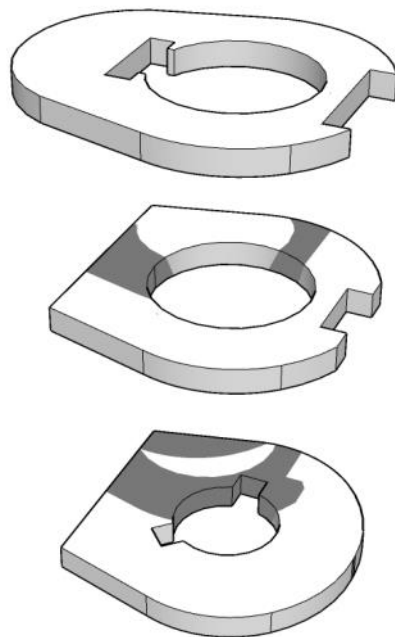


# PRODUCTION TURRET

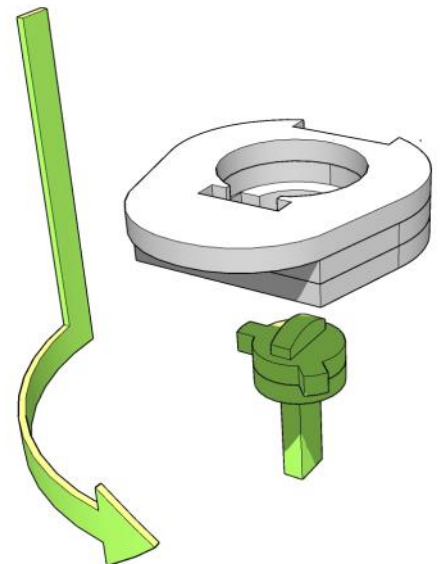
84



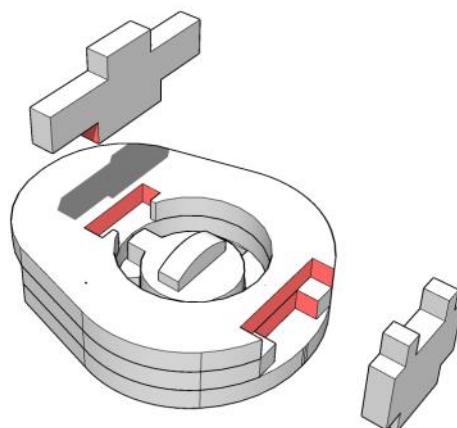
85



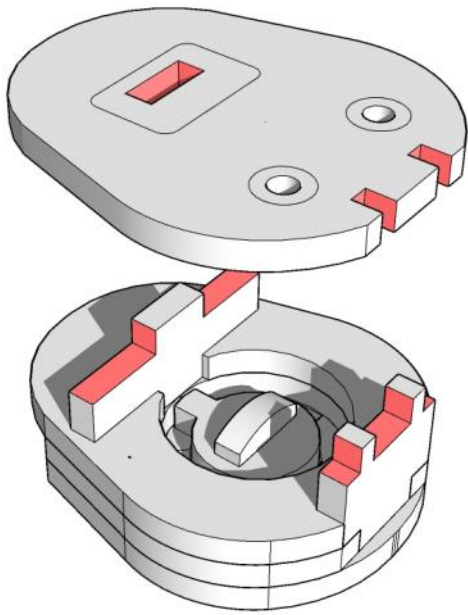
86



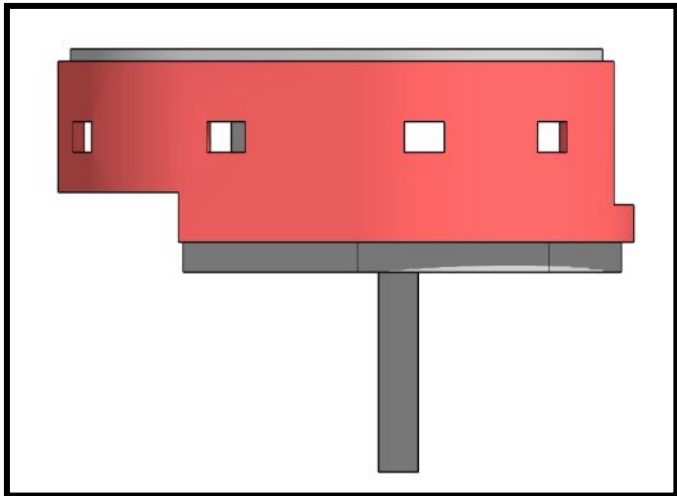
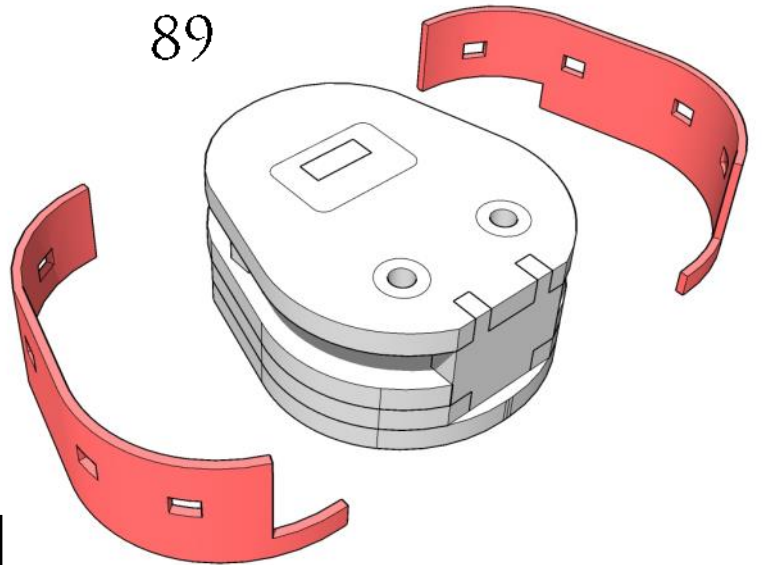
87



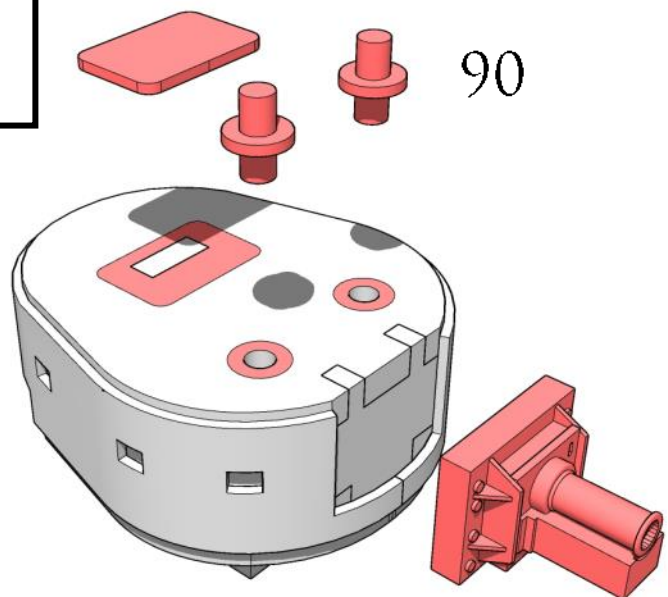
88

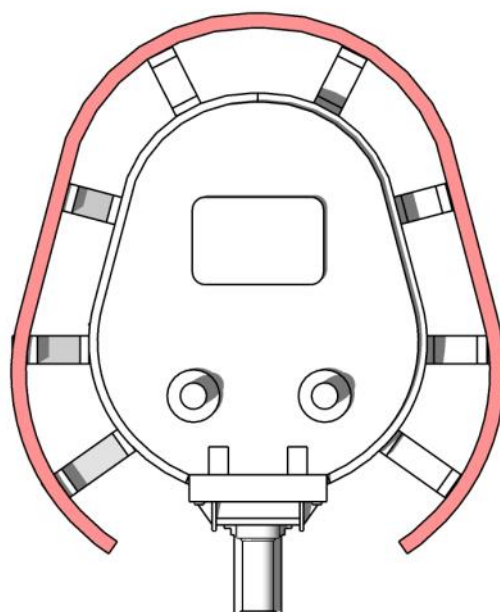
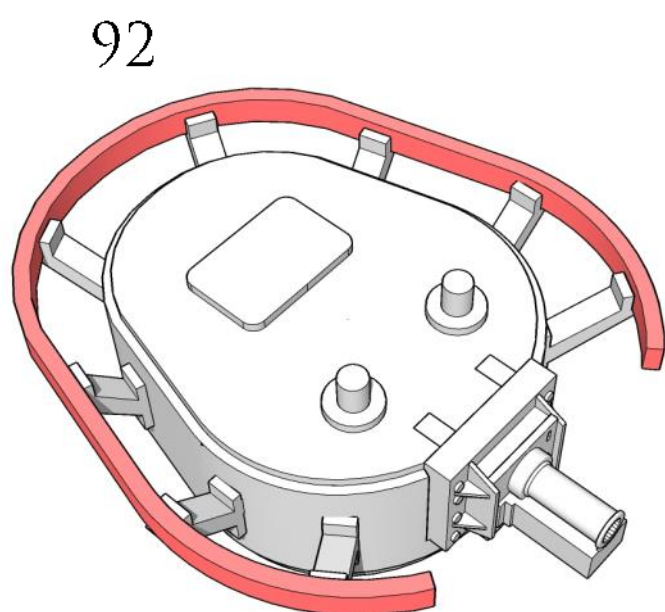
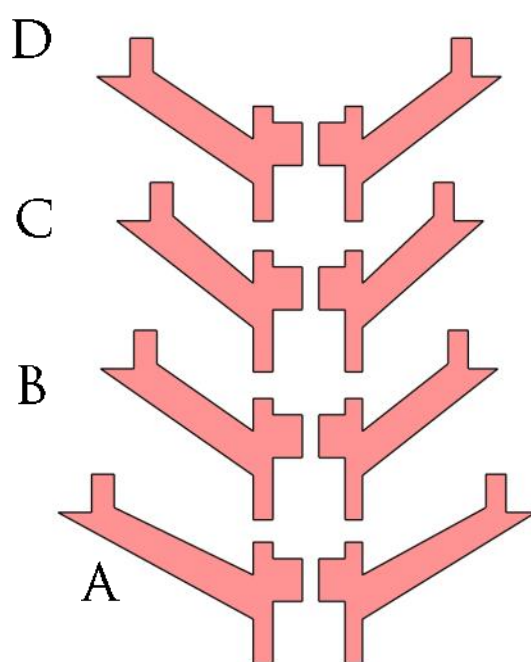
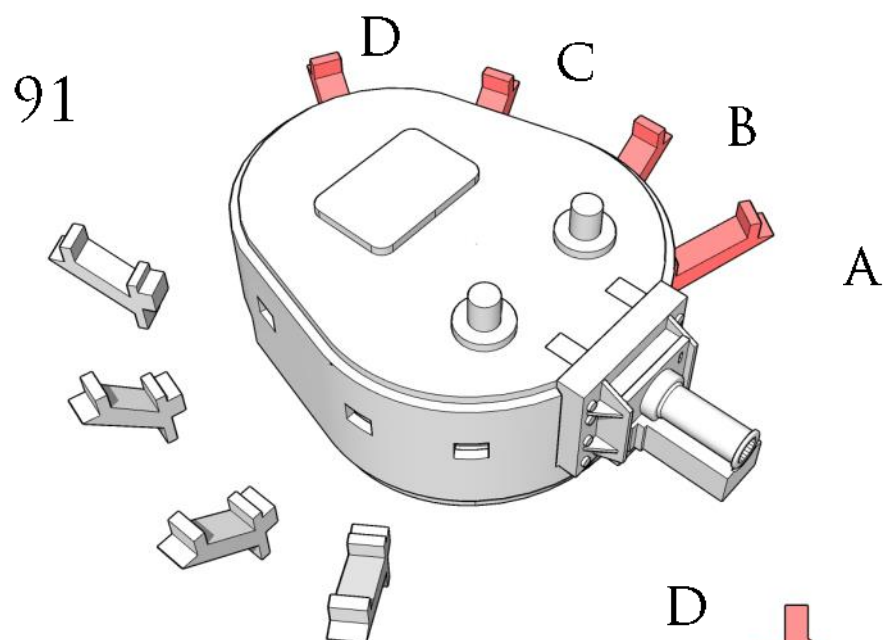


89



90

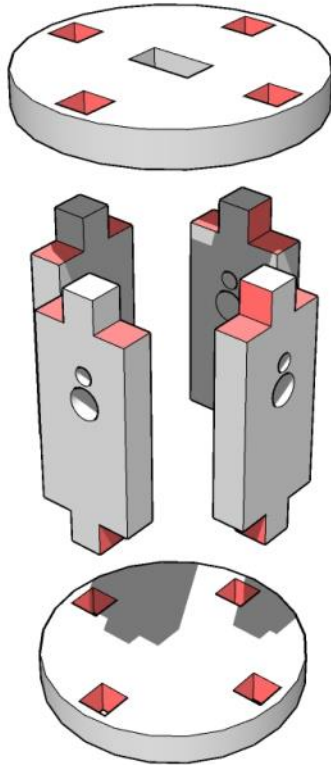




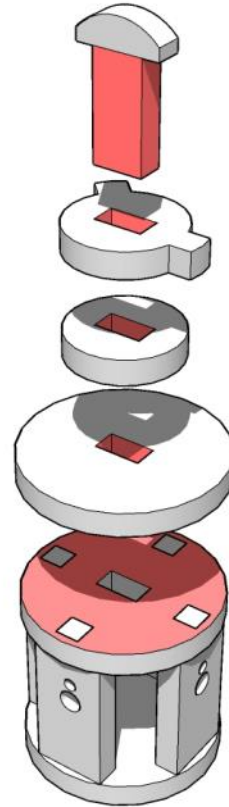


# BELLY TURRET

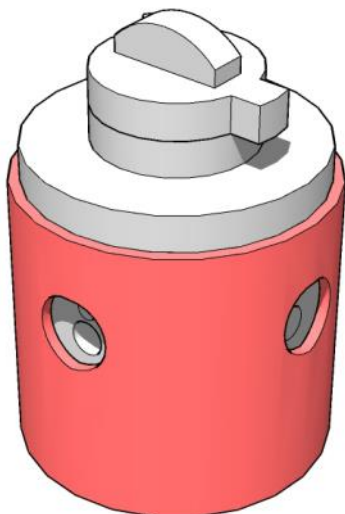
93



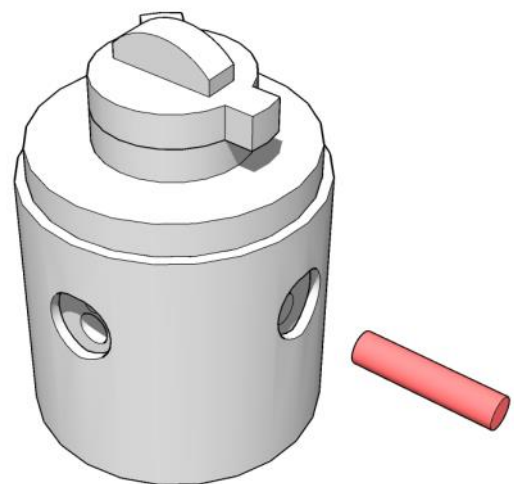
94



95



96



SOME REFERENCES SHOW UP TO 4 MACHINE  
GUNS HERE.  
ONE OR TWO IS PROBABLY MORE REALISTIC.

