

# Power Wagon M37

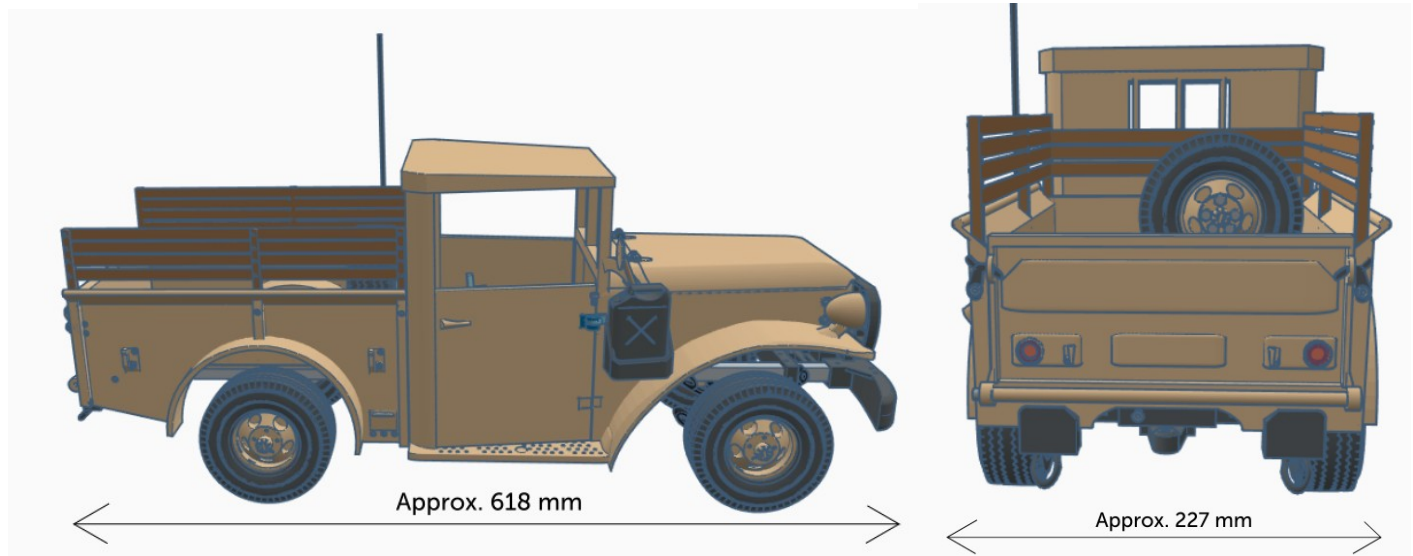
by Tamimi Team



Power Wagon M37 by Tamimi Team

The project is inspired by a US Army  $\frac{3}{4}$ -ton 4x4 truck Dodge Wagon M37 based on WWII WC series truck. The production of M37 began in January 1951, with approximately 11,000 vehicles made by the end of that year. About 115,000 trucks was produced in total until late 1968 when it was replaced by M-715 truck.

We love cars and RC models so we decided to make a model of this truck. Its mostly 3d printed, you need to buy just a few things such as motor, esc, battery, reciever, some M3 and M2 screws, few bearings, tires and aluminum profile 10x10mm. Shopping list is included within download bundle.



## Parameters

**Lenght:** 618 mm  
**Width:** 227 mm  
**Height:** 250 mm without antenna  
**Weight:** 2000g PLA (depending on print settings)



the world's best designers united

## Requirements

Printing is very simple, requires FDM 3d printer with min. build volume of. 210X210xZ-210mm, default 0,4mm nozzle, slicer software such as Simplify3D(recommended) CURA or any favourite software. You will need basic PLA, optional is transparent pla for lights. You'll also need screwdrivers, superglue and M3 drill for final assembly (basic lithium battery screwdriver with M3 drill bit works well).

## Print settings

There are two folders, first named SIMLIFY3D with simplify3d factory files containing all the setting you need. Layouts on heatbed, processes etc. **Always adjust print setting to fit your printer!**

The second folder named BASIC STL contains stl files for any other slicer. For almost everything use 2 or 3 walls, 20% infill. For transmtion gears, drivetrain and gears generally, use denser infill. **Always adjust print settings for your printer!**

**NOTE – every stl file is named with recommended print colour and if support is required** (for example [Black PLA with support](#)). Feel free to use whatever color you like, but we chose colors based on the original vehicle.

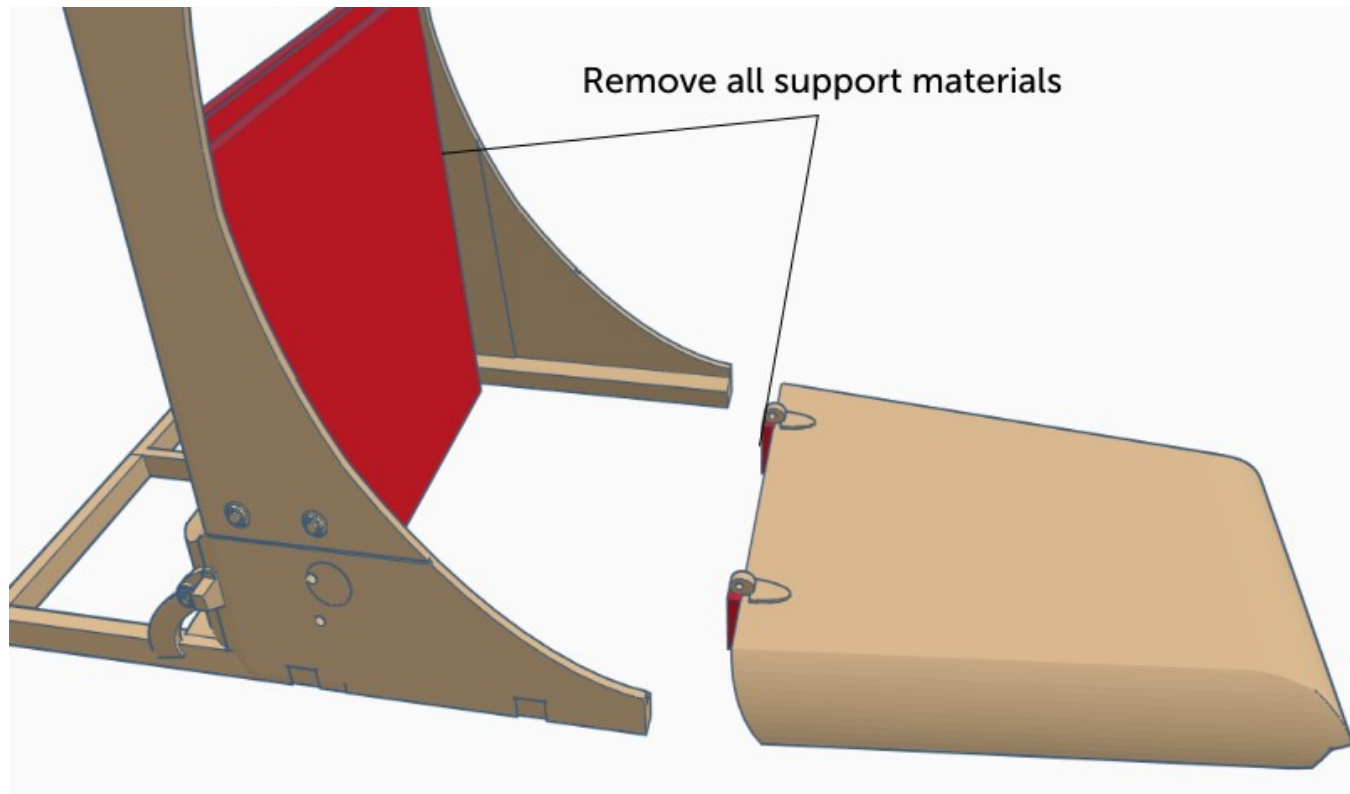
## Shopping list

Shopping list is located in main folder, its separate file, not included inside this manual. Please check shopping list before printing, make sure you have everything to finish assembly. Recommended motor and esc works together and its made for scale driving, its not crawler, if you wanna use different motor with different RPM, you will need to rework a complete motor mount and transfer case gears.

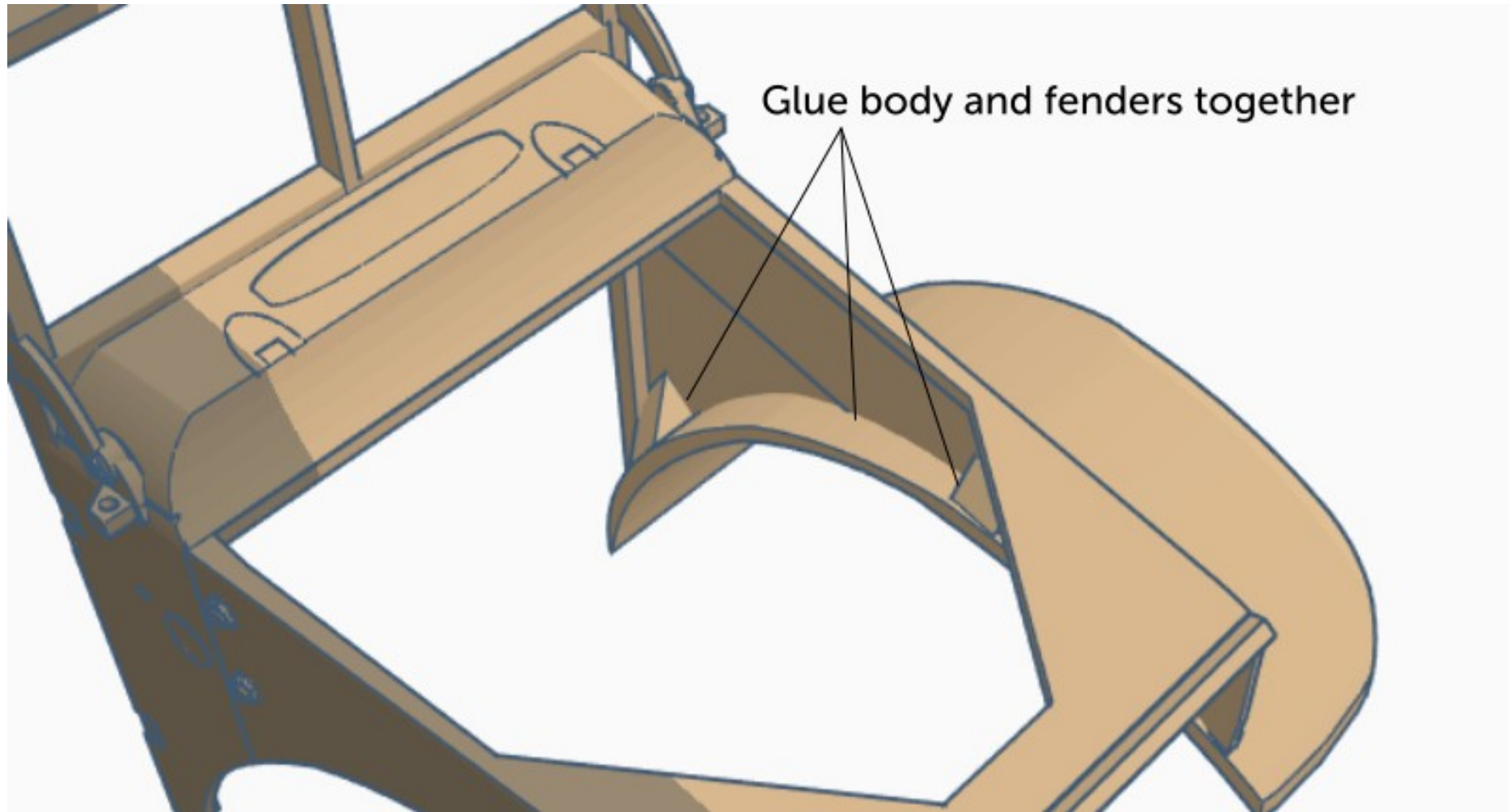
So lets get printing and don't forget to order stuff on shopping list!

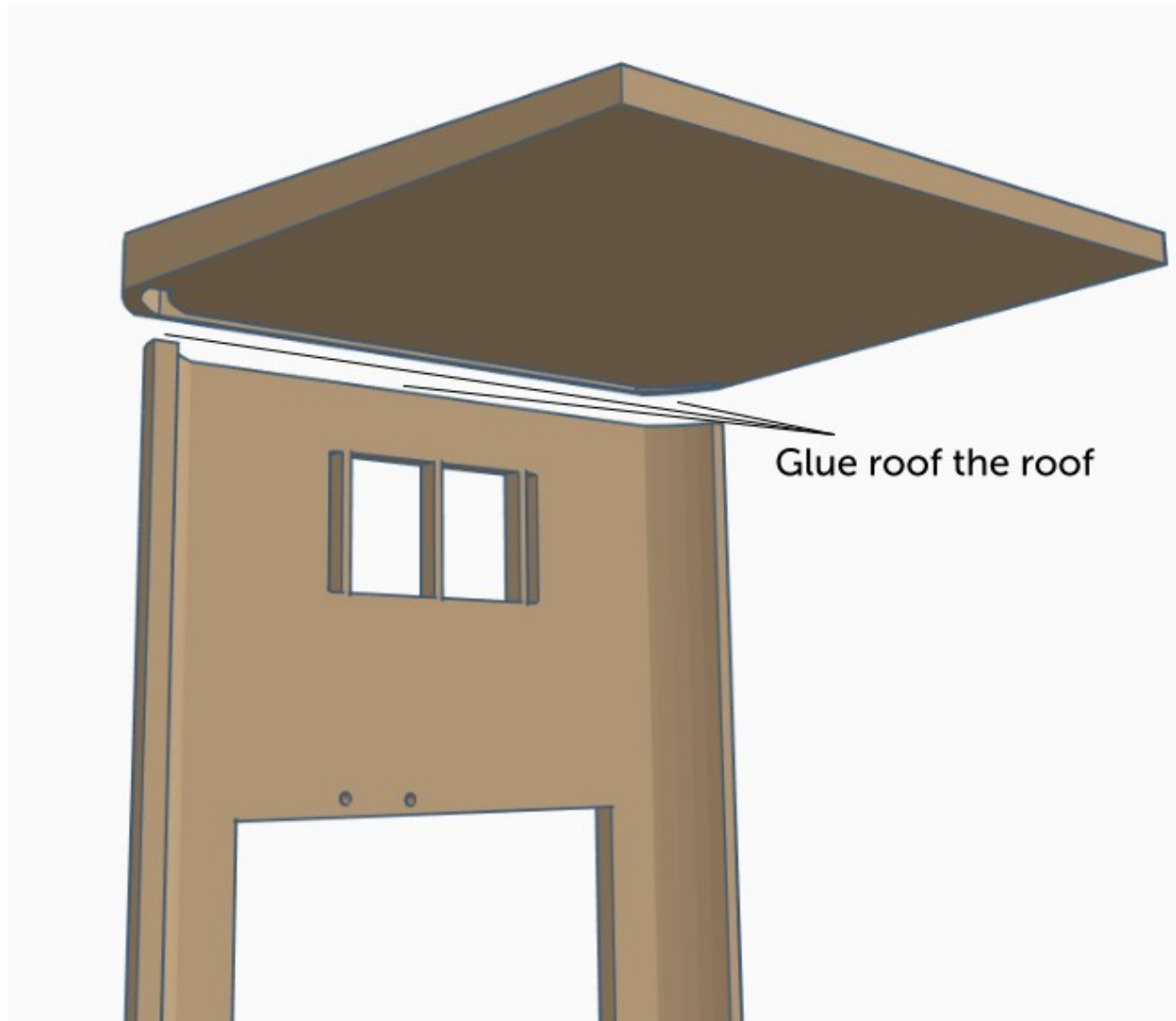
## Assembly instructions

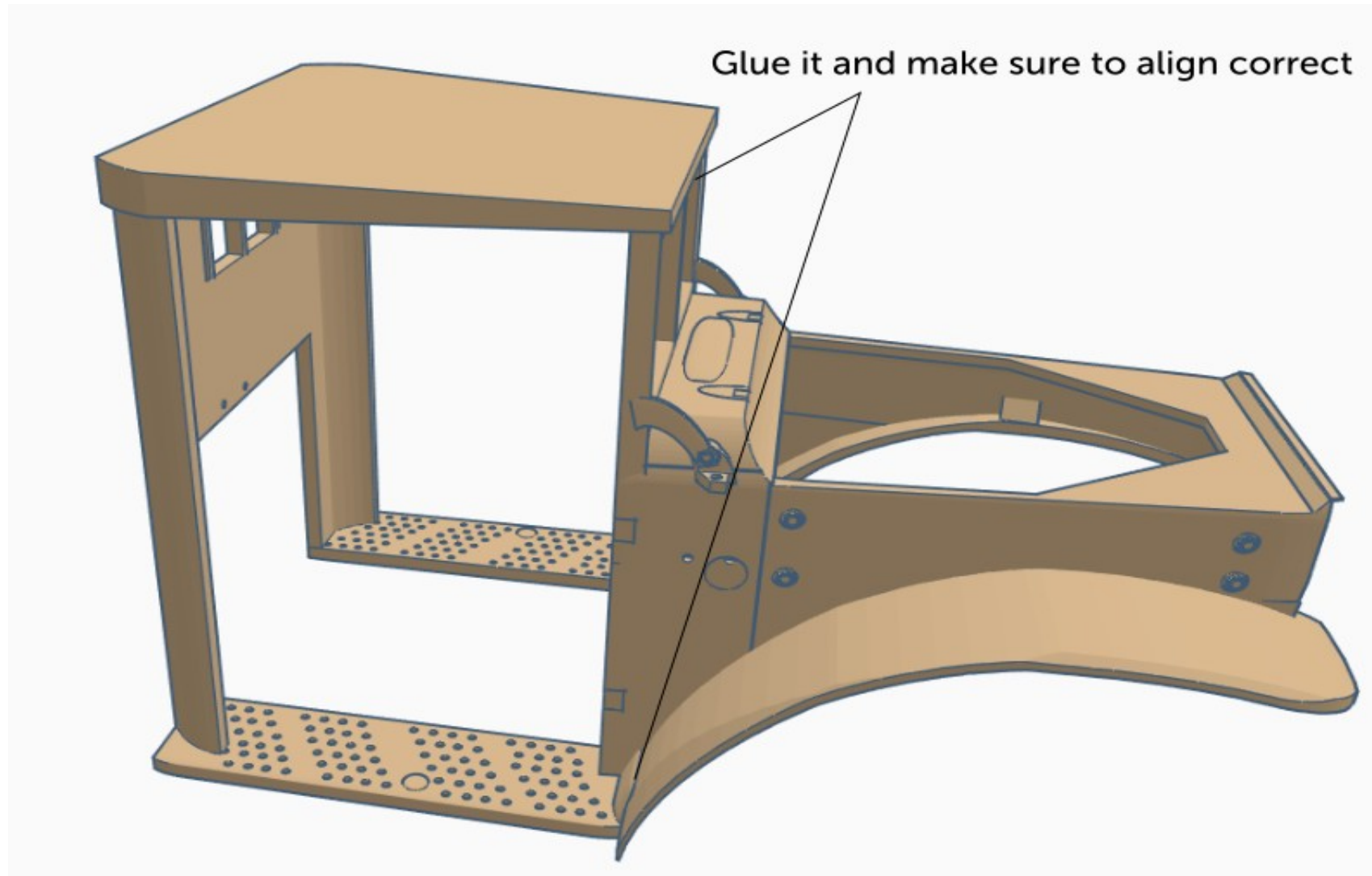
### 1. Body assembly

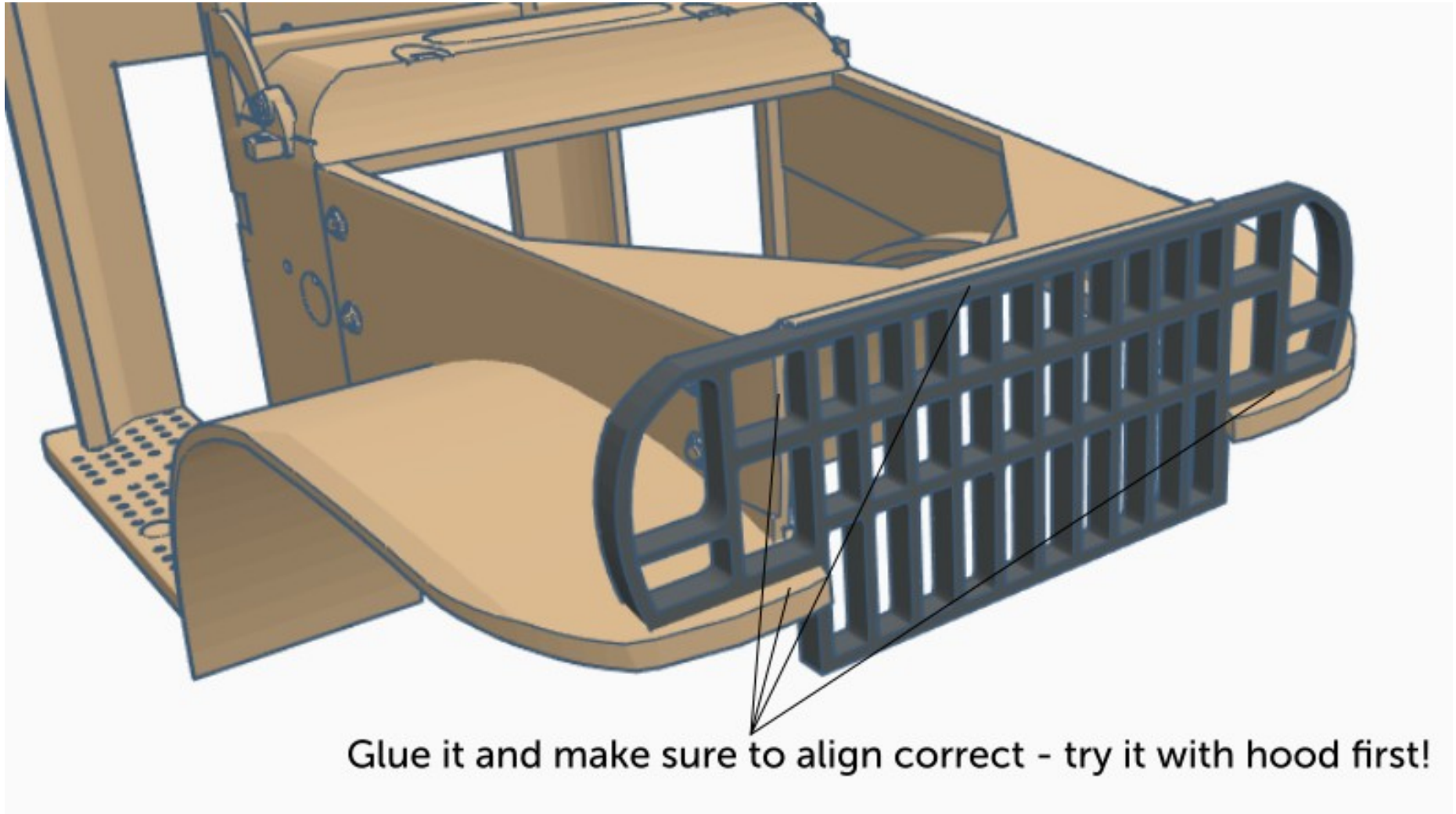






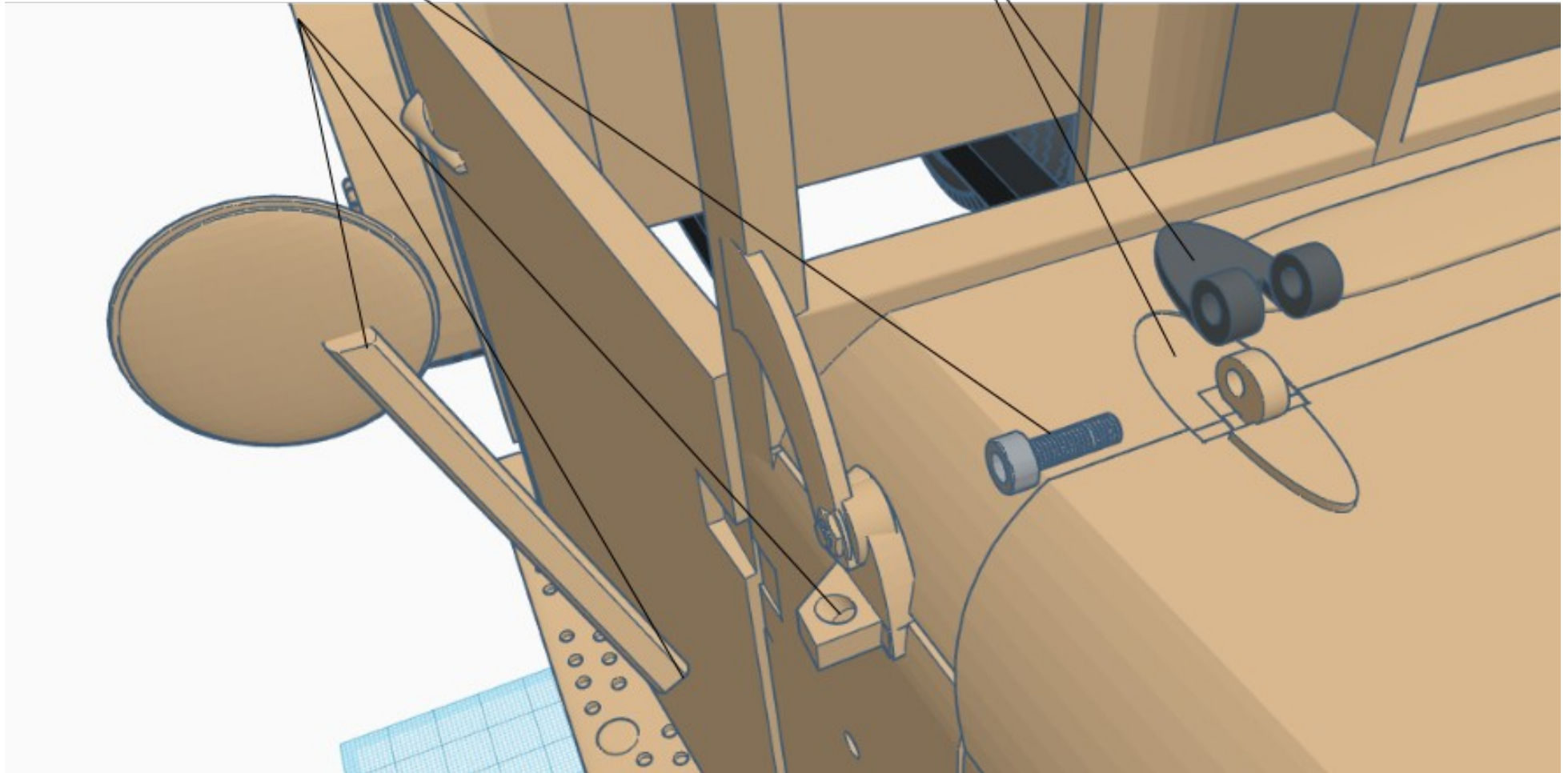




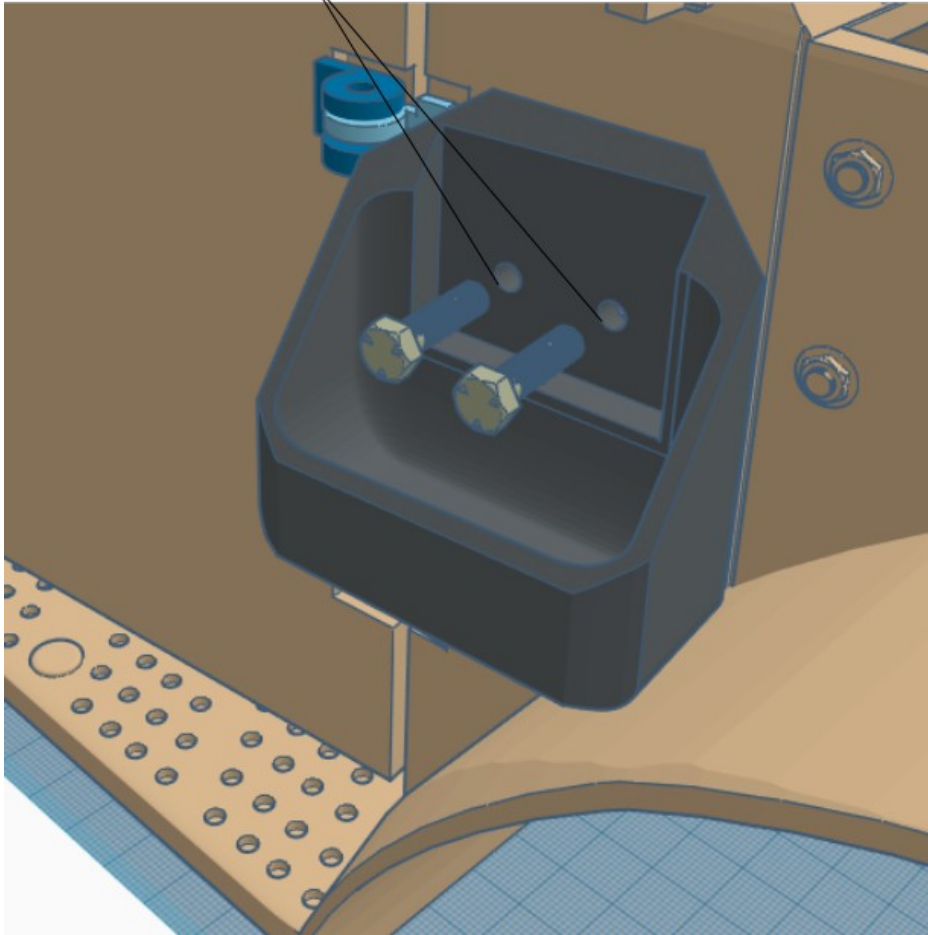




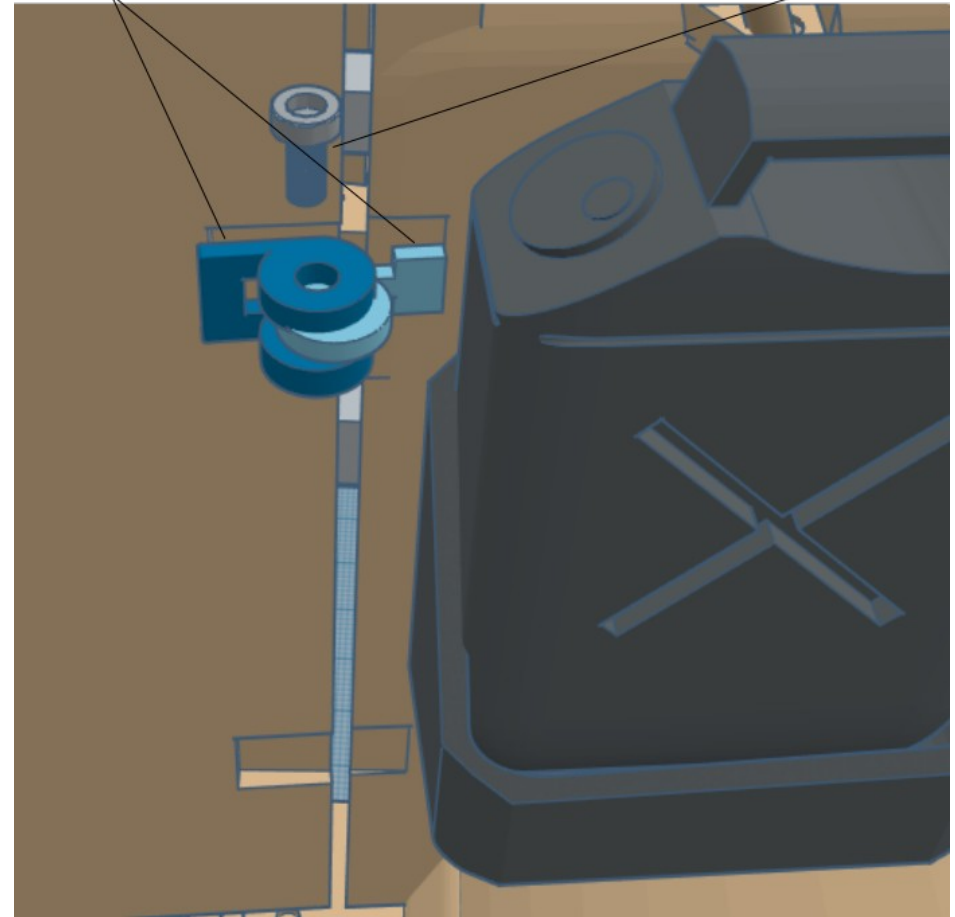
Glue rear mirrors together and body, then glue hinges to body and secure hood with M3 or M2 screw (depends on your hole)



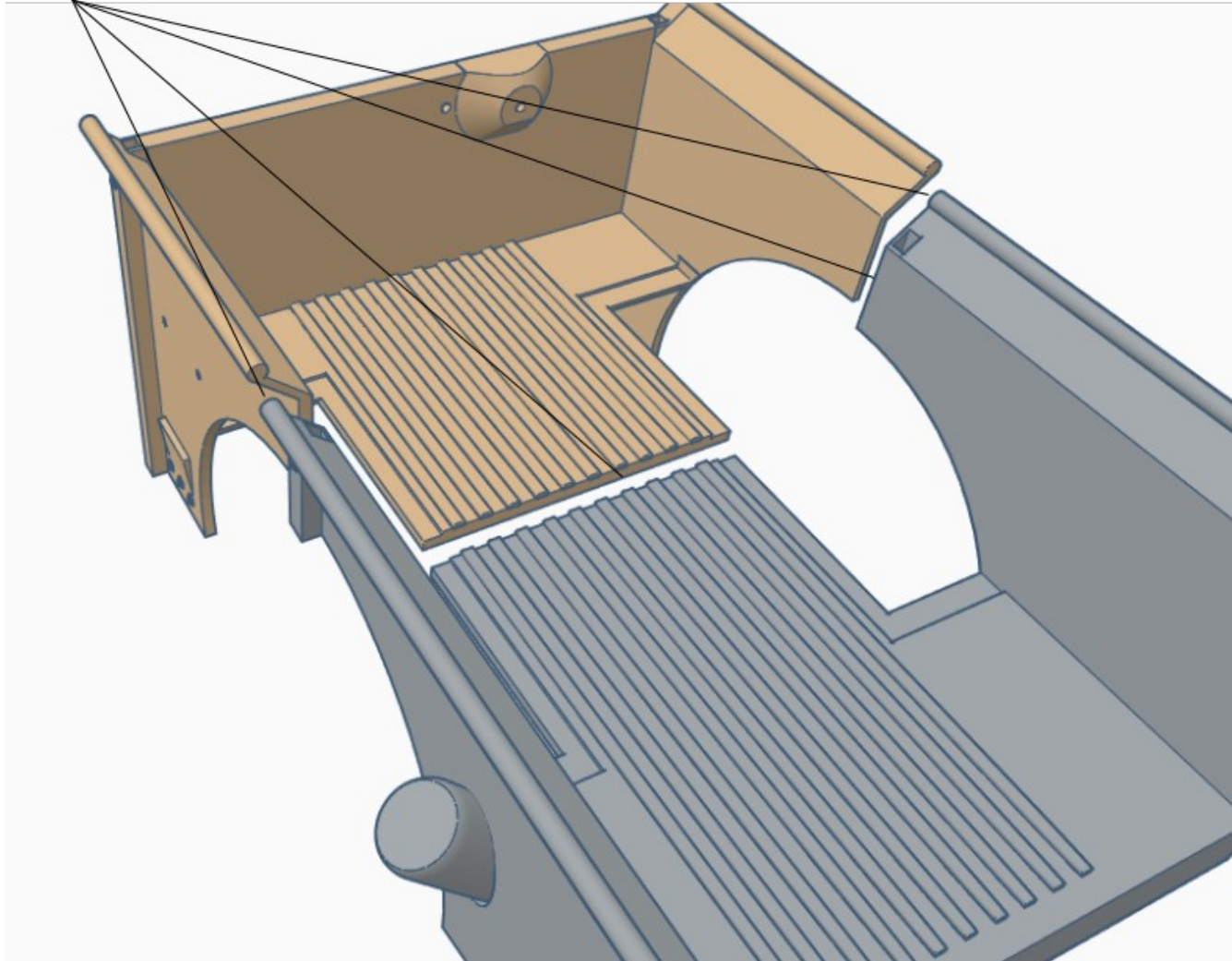
Use M3 screw to connect canister holder, for sure you can secure by self-locking nut



Glue hinges to door and body and connect doors by screw (M2,M3)

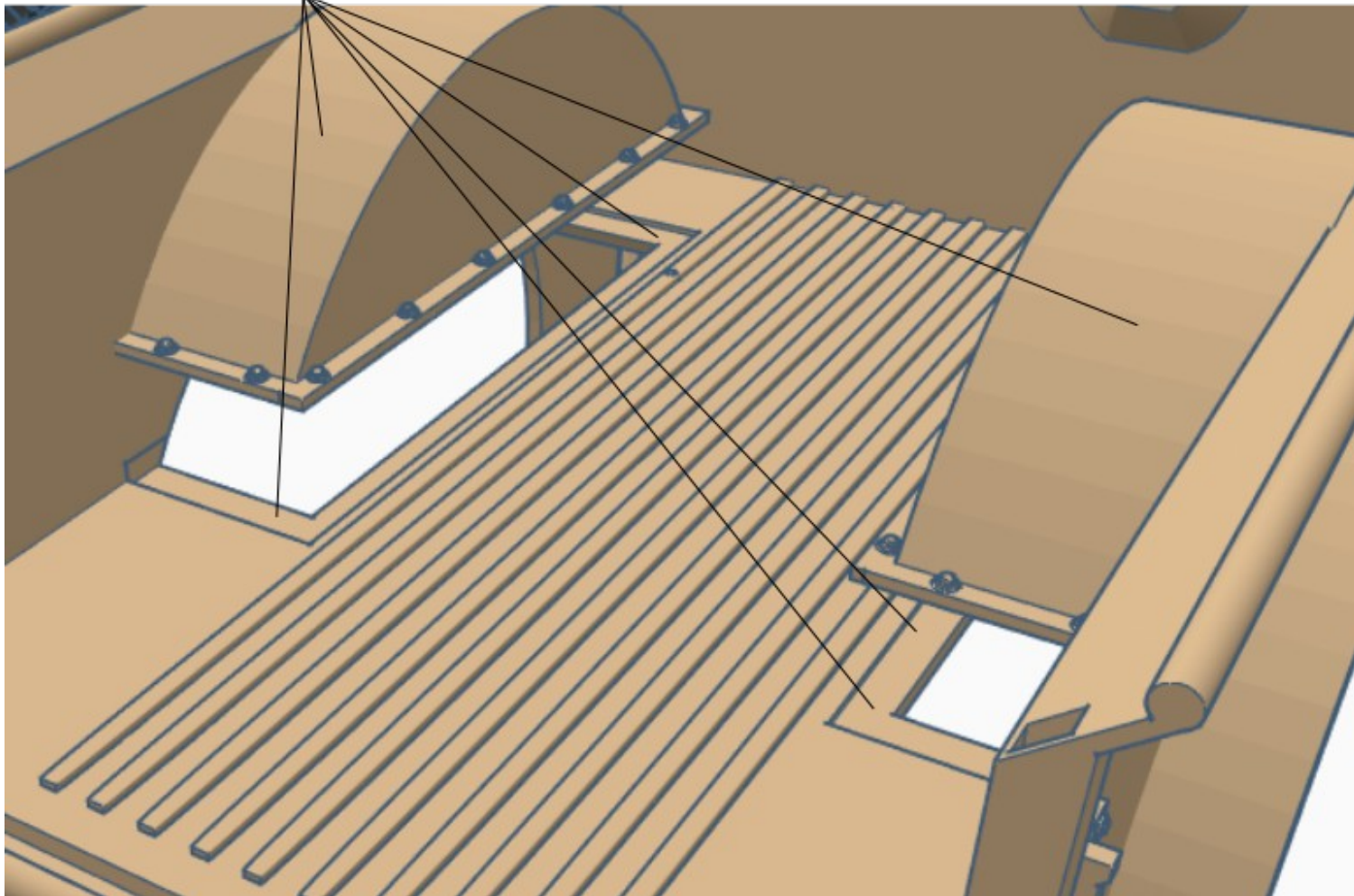


Glue two parts of trunk together, make sure to align correctly!

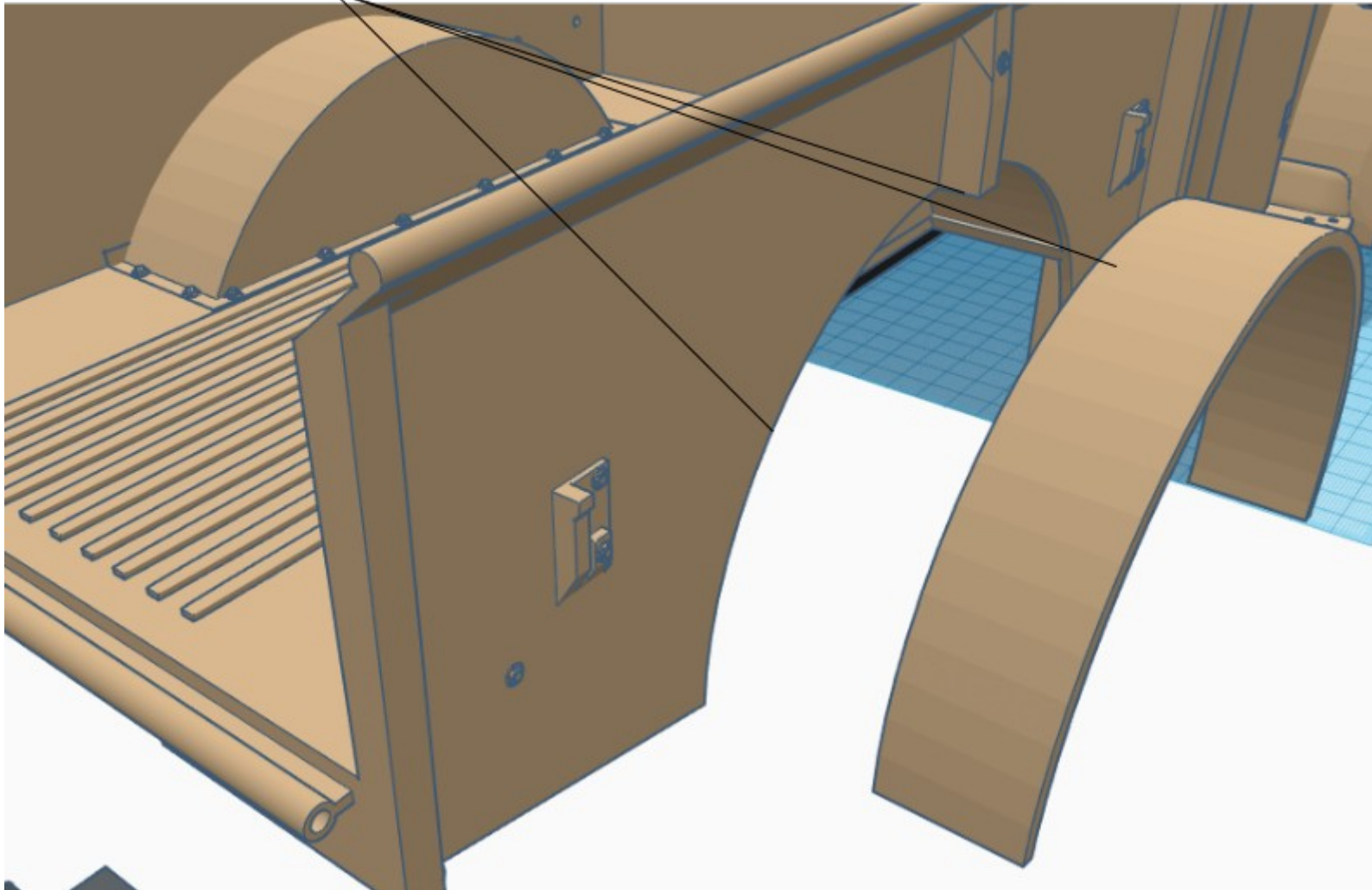




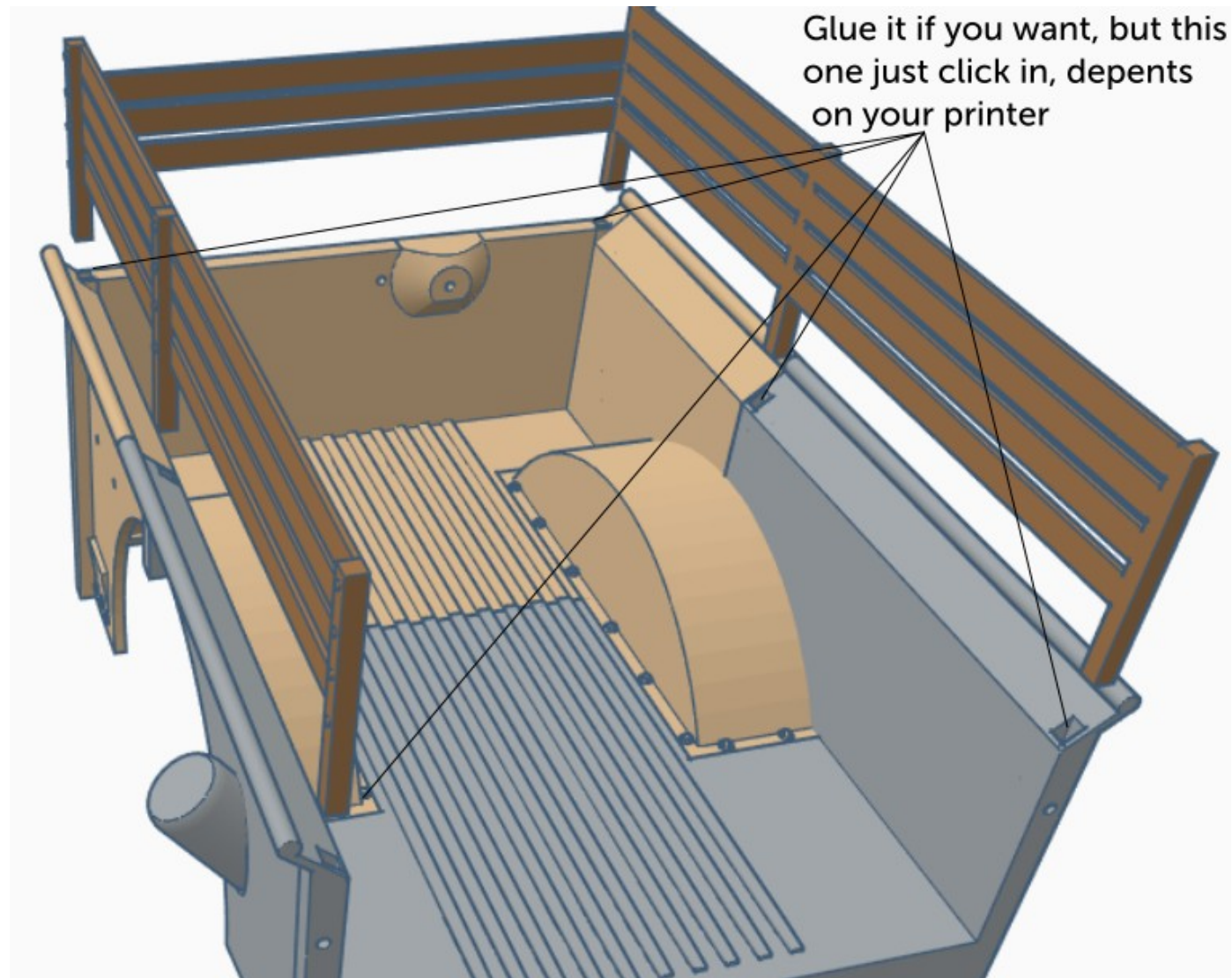
Glue it, simple:o)

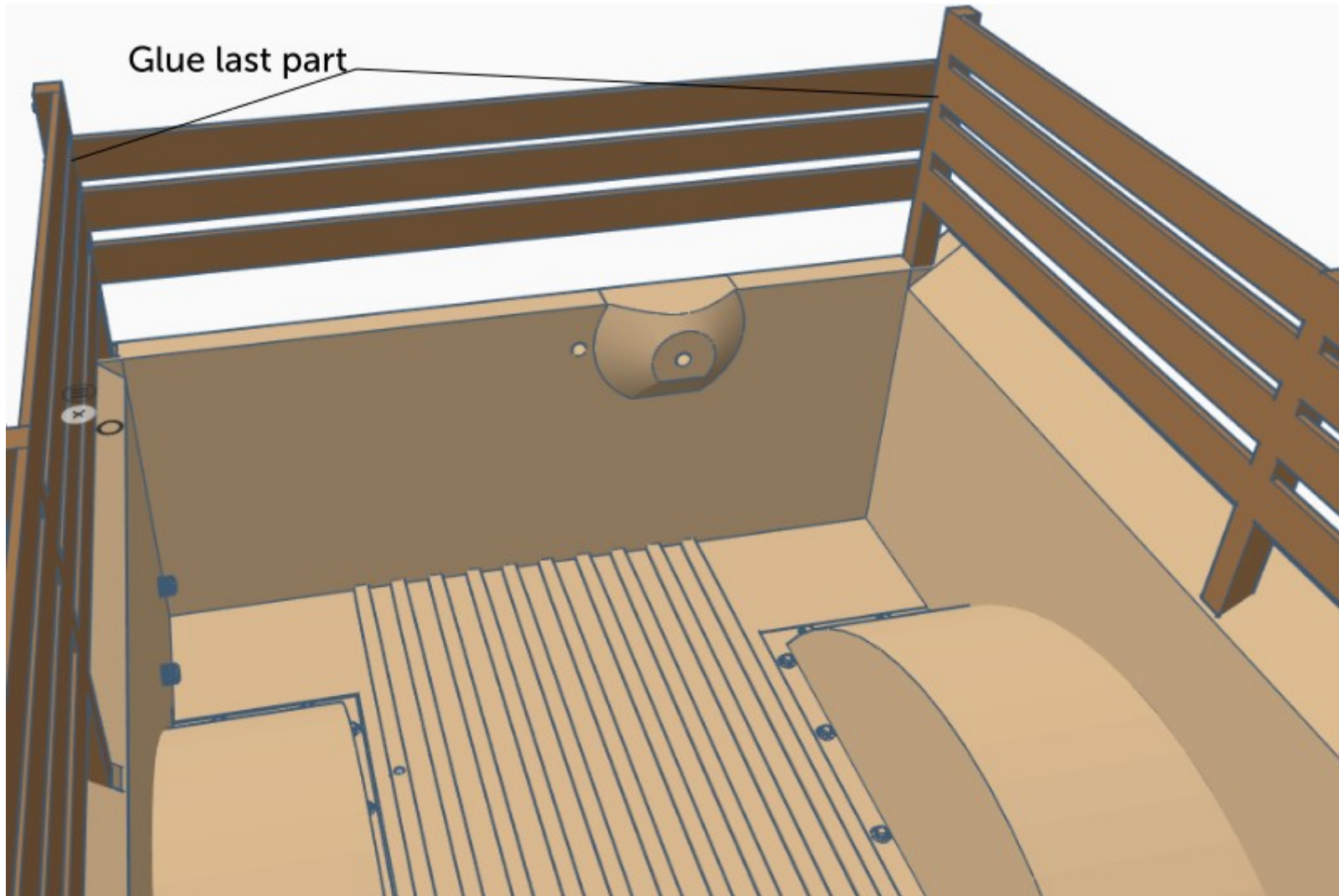


Glue it again, make sure align correct



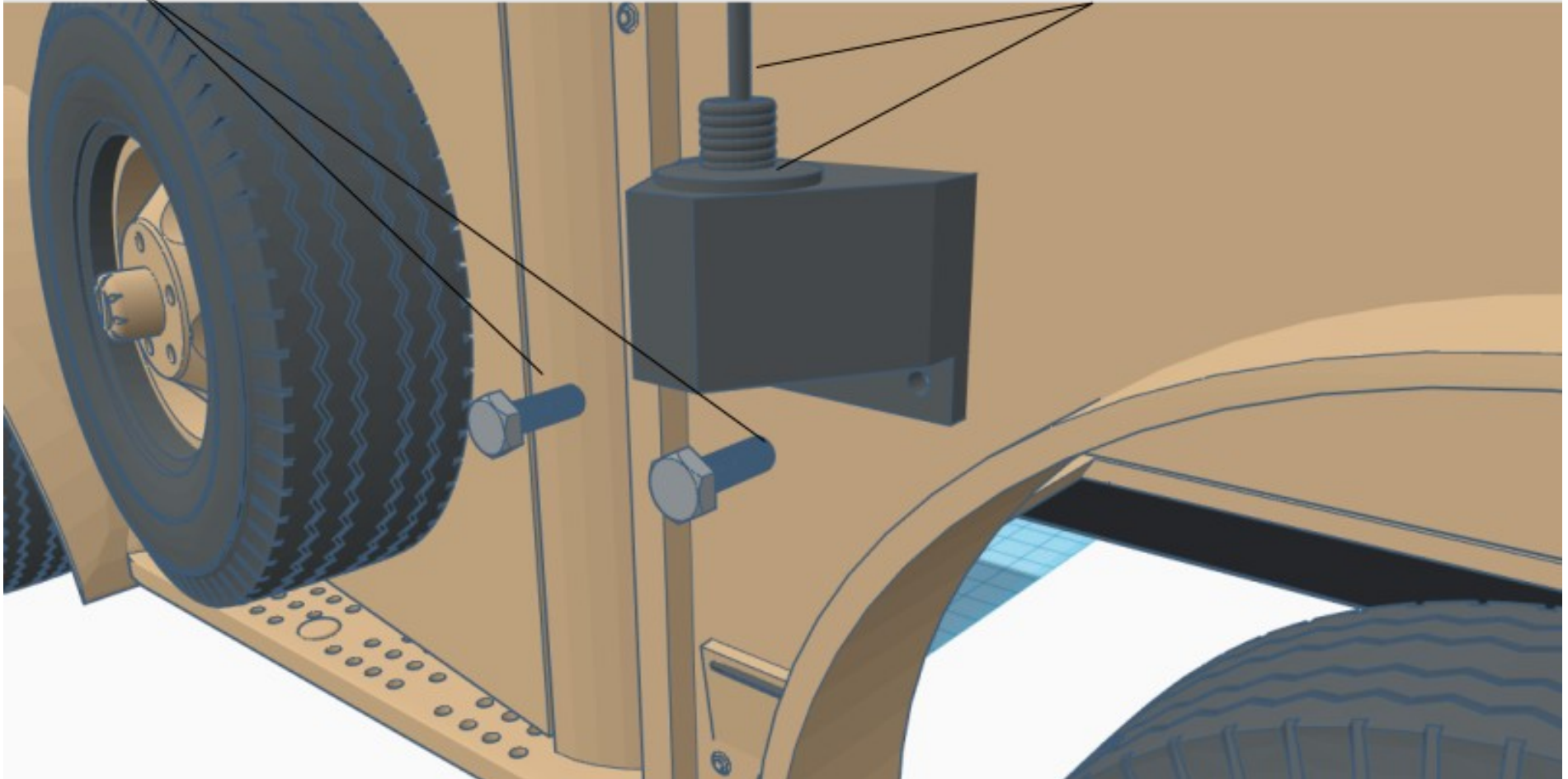






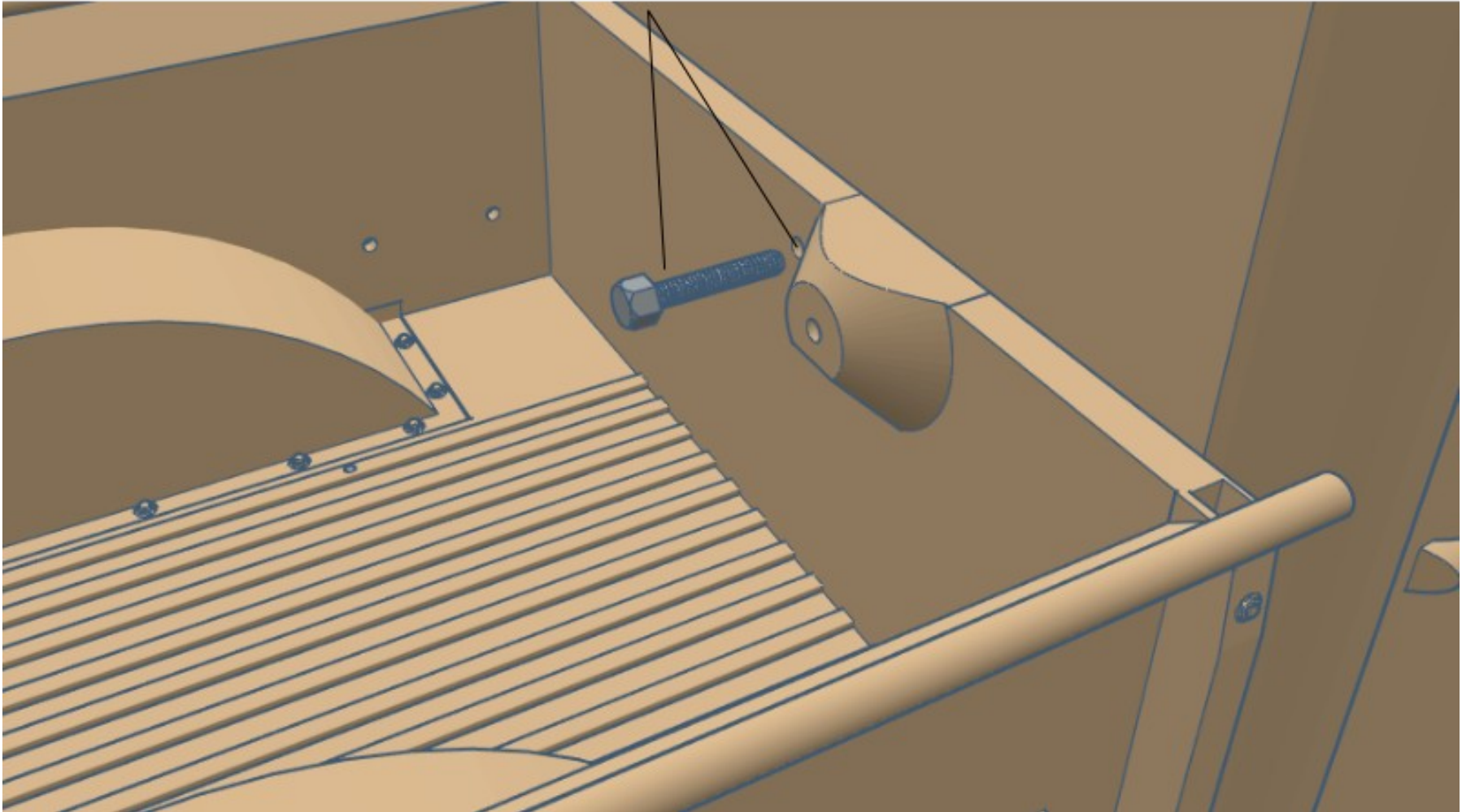
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Use M3 screw to connect antenna holder on body and glue antenna on place

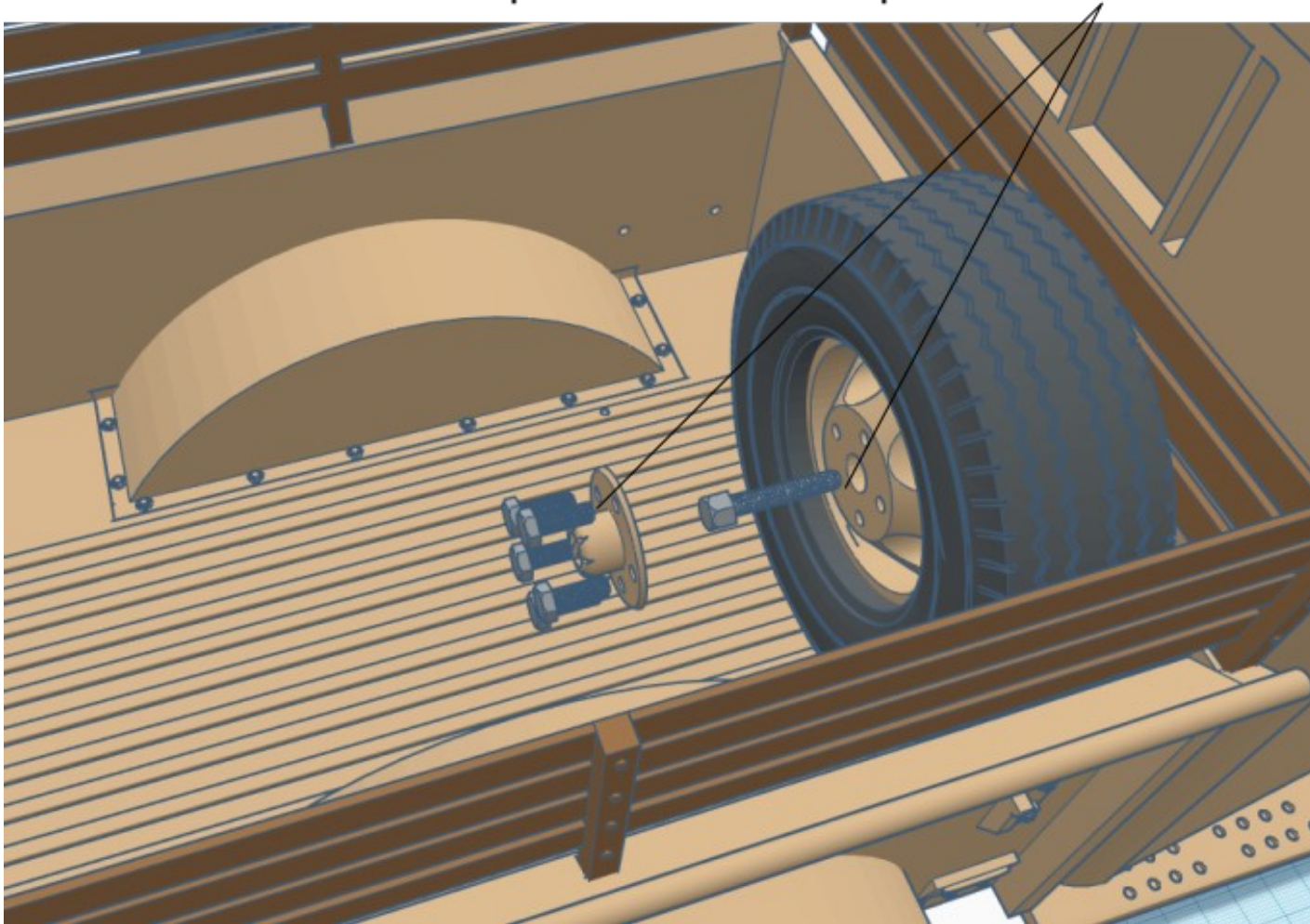




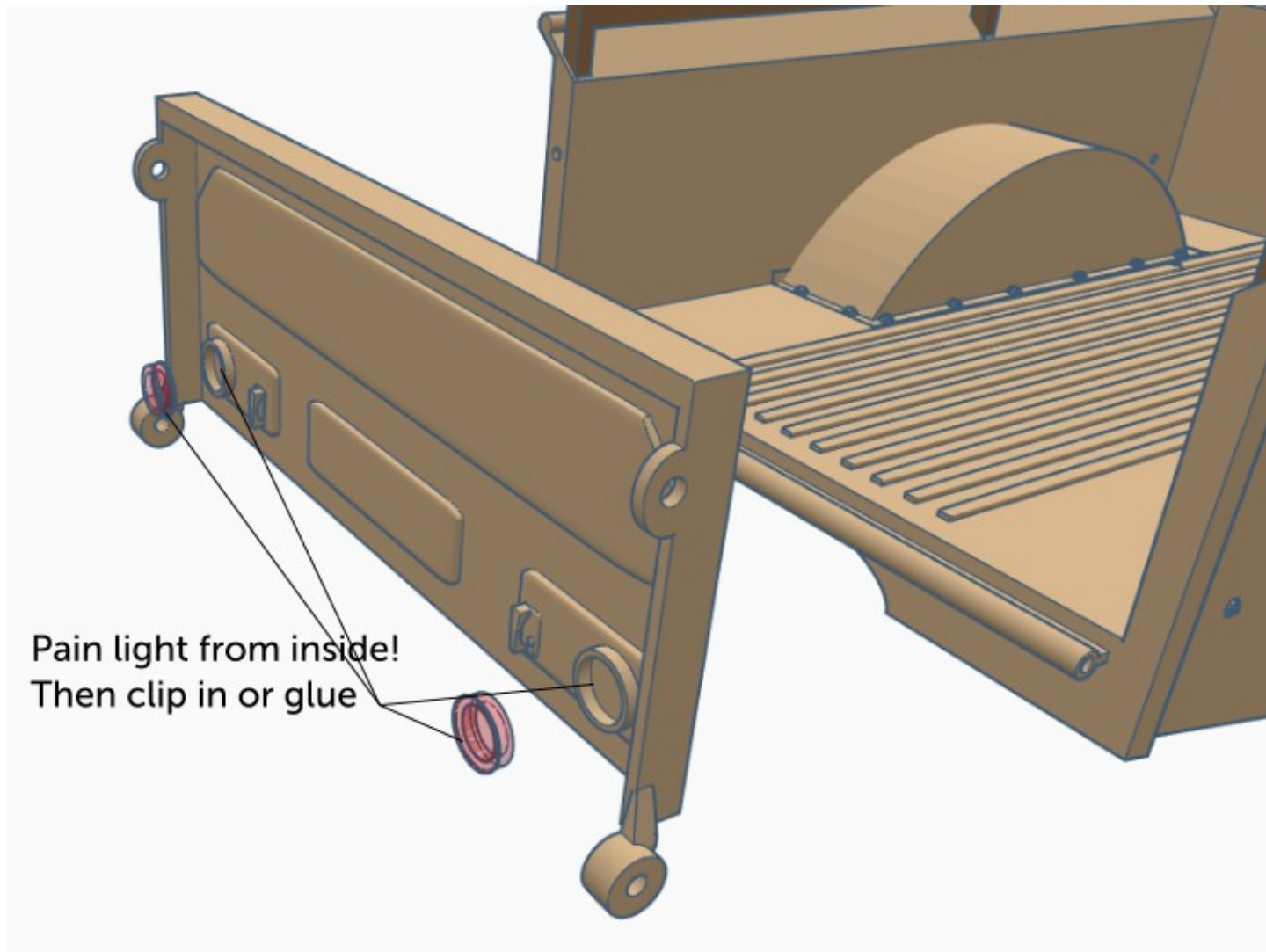
Connect trunk to main body by M3 screw and self-locking M3 nut on other side

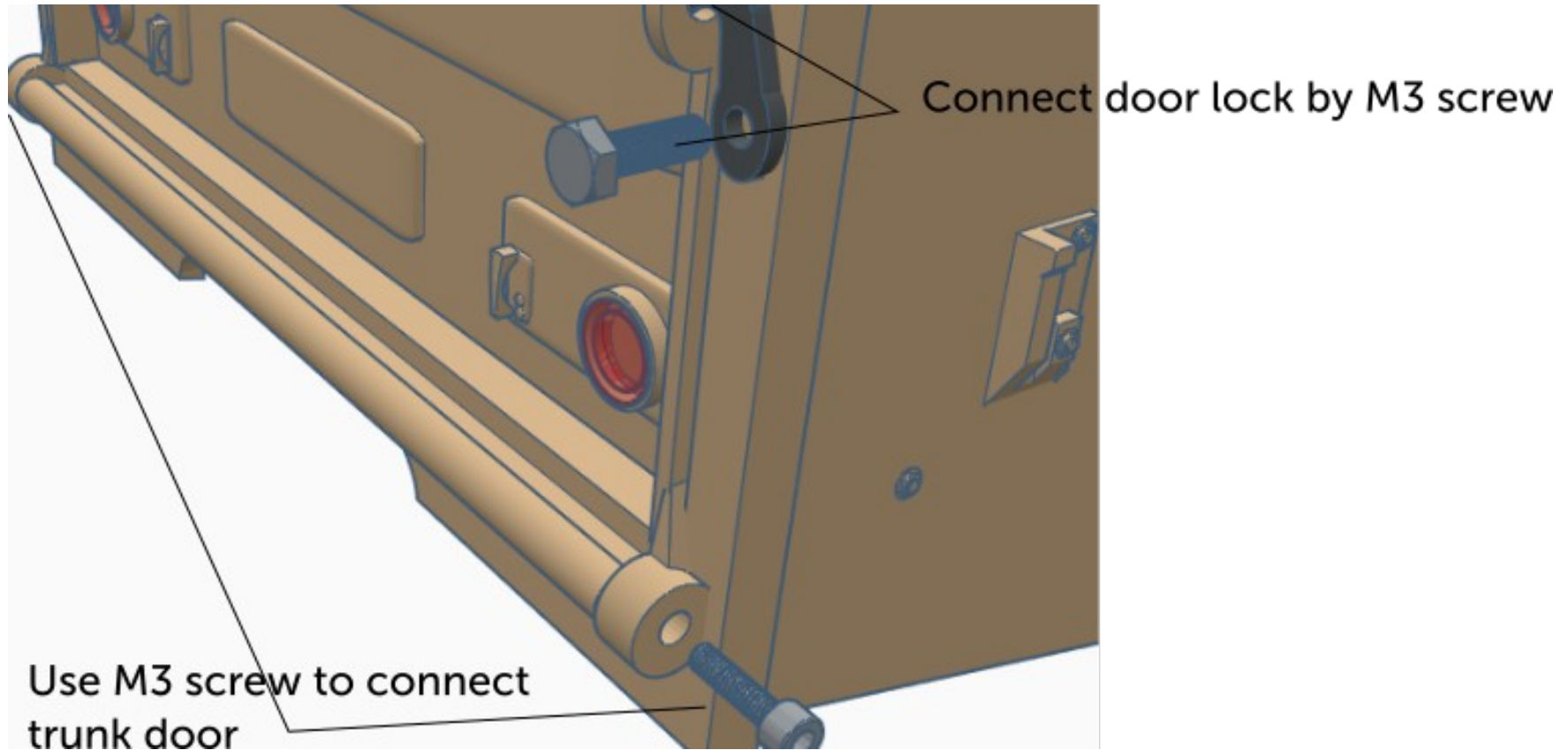


Secure connection between cab and trunk with long M3 screw.  
That screw will also hold spare wheel. Finish spare wheel

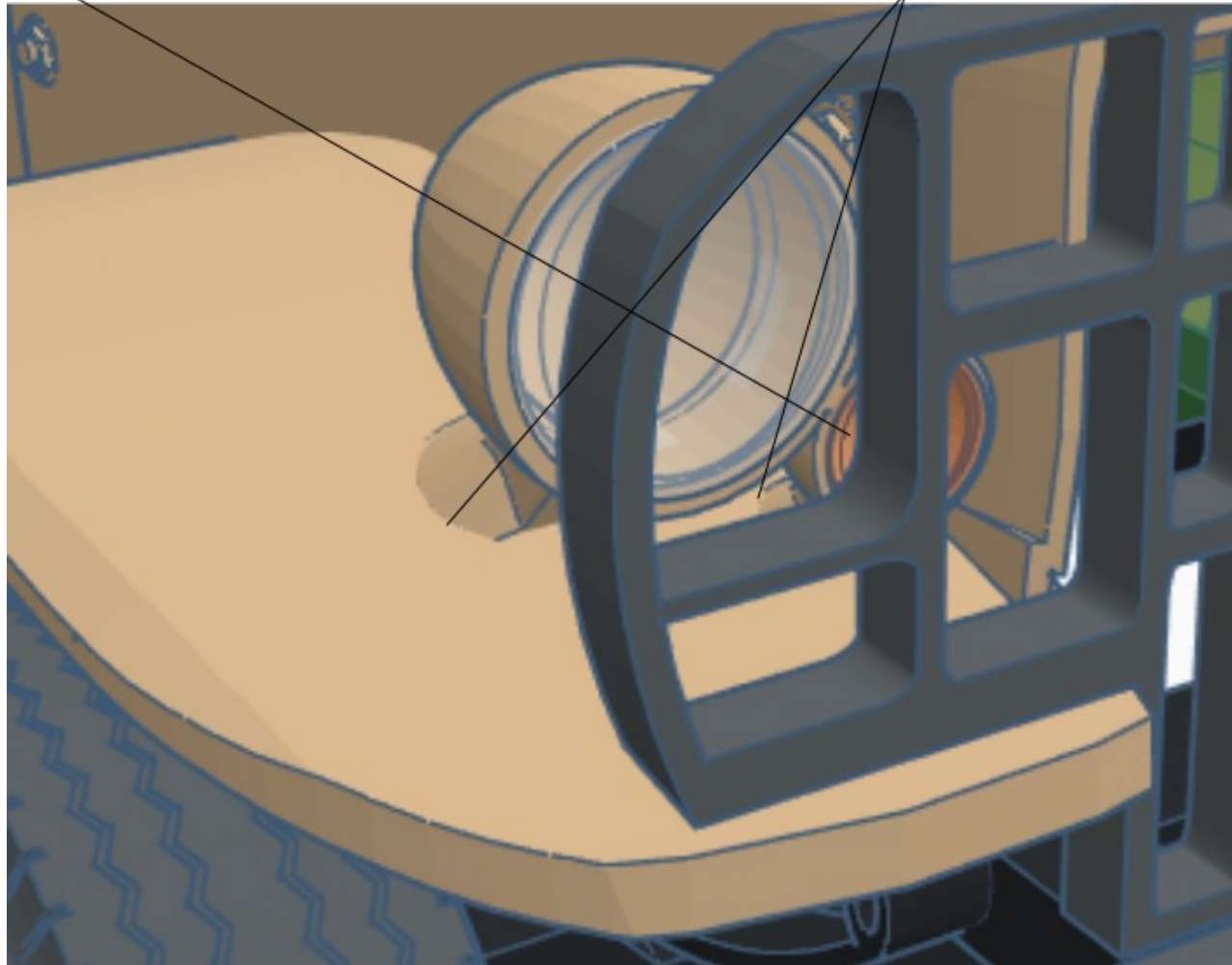


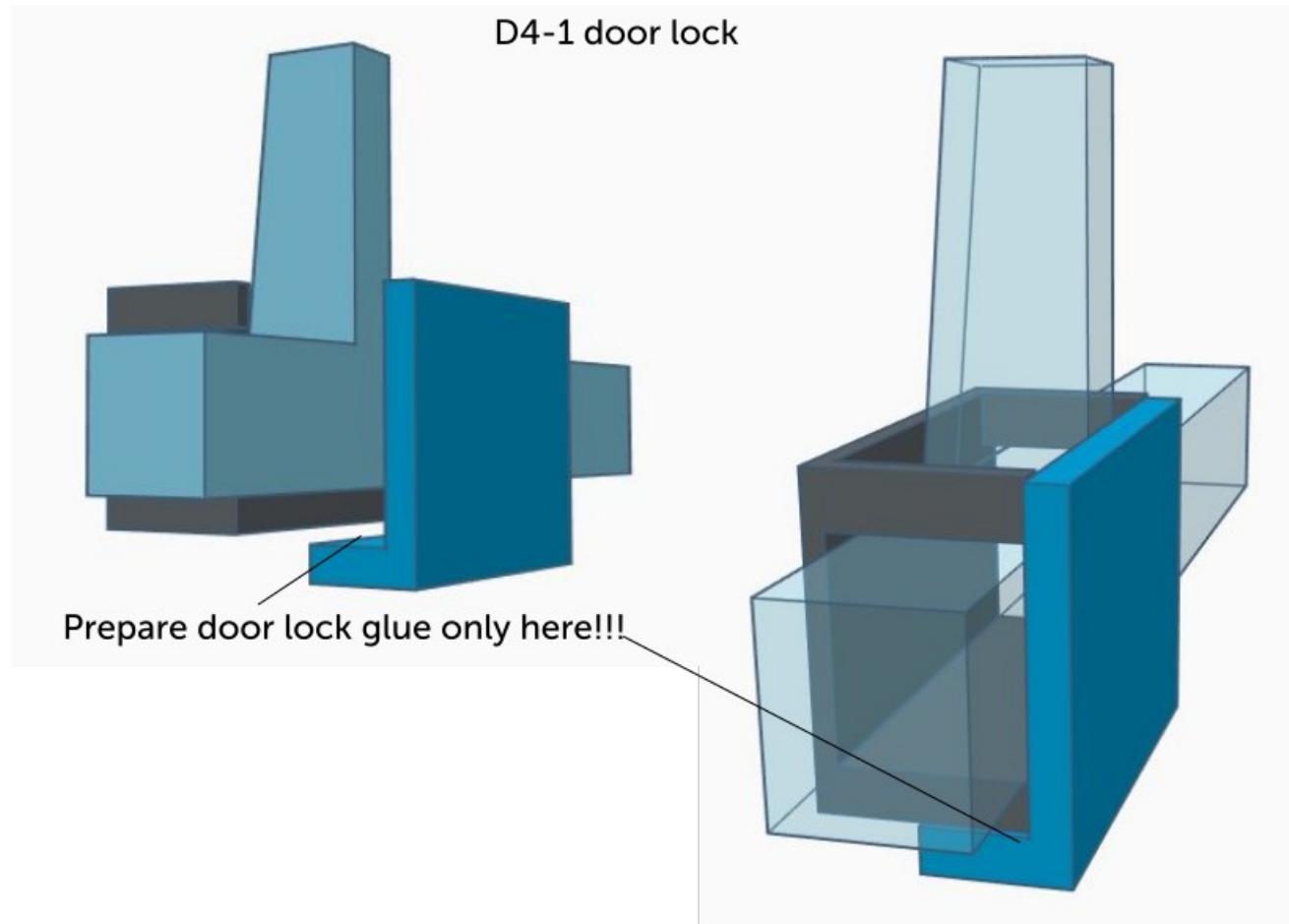




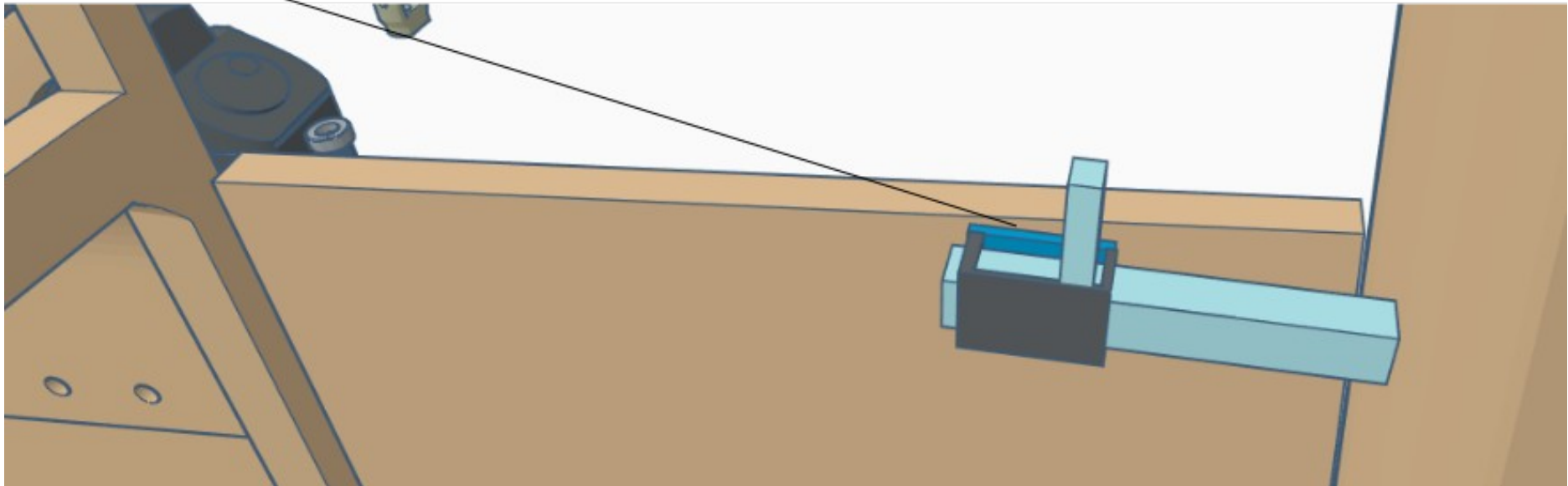


Paint light from inside if you want and clip in, then glue on the body



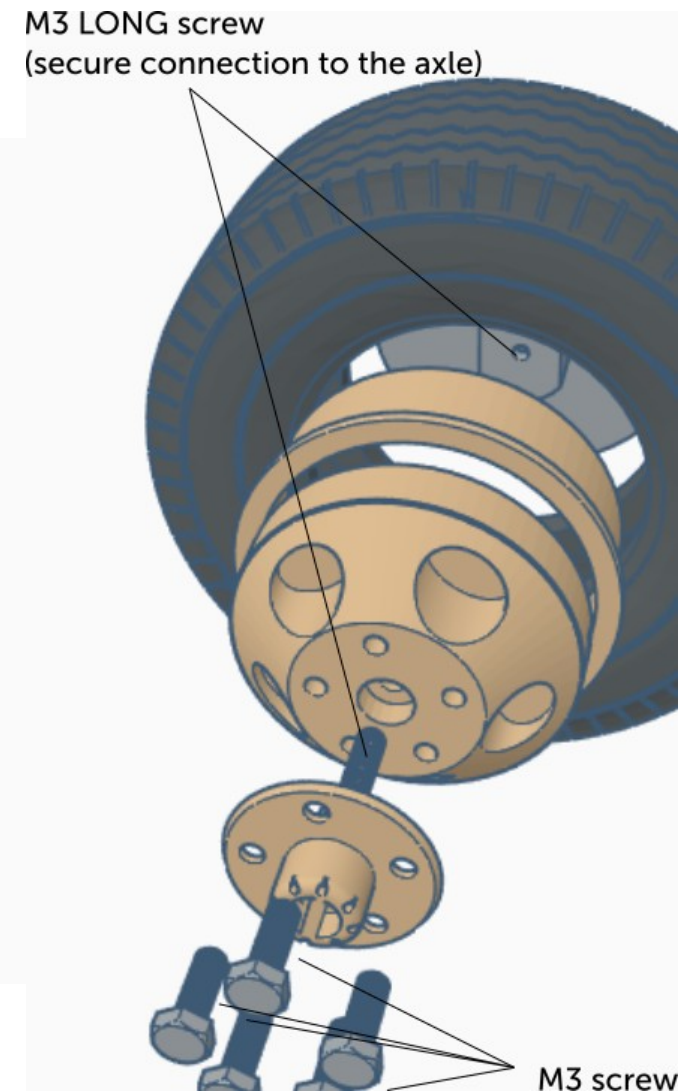
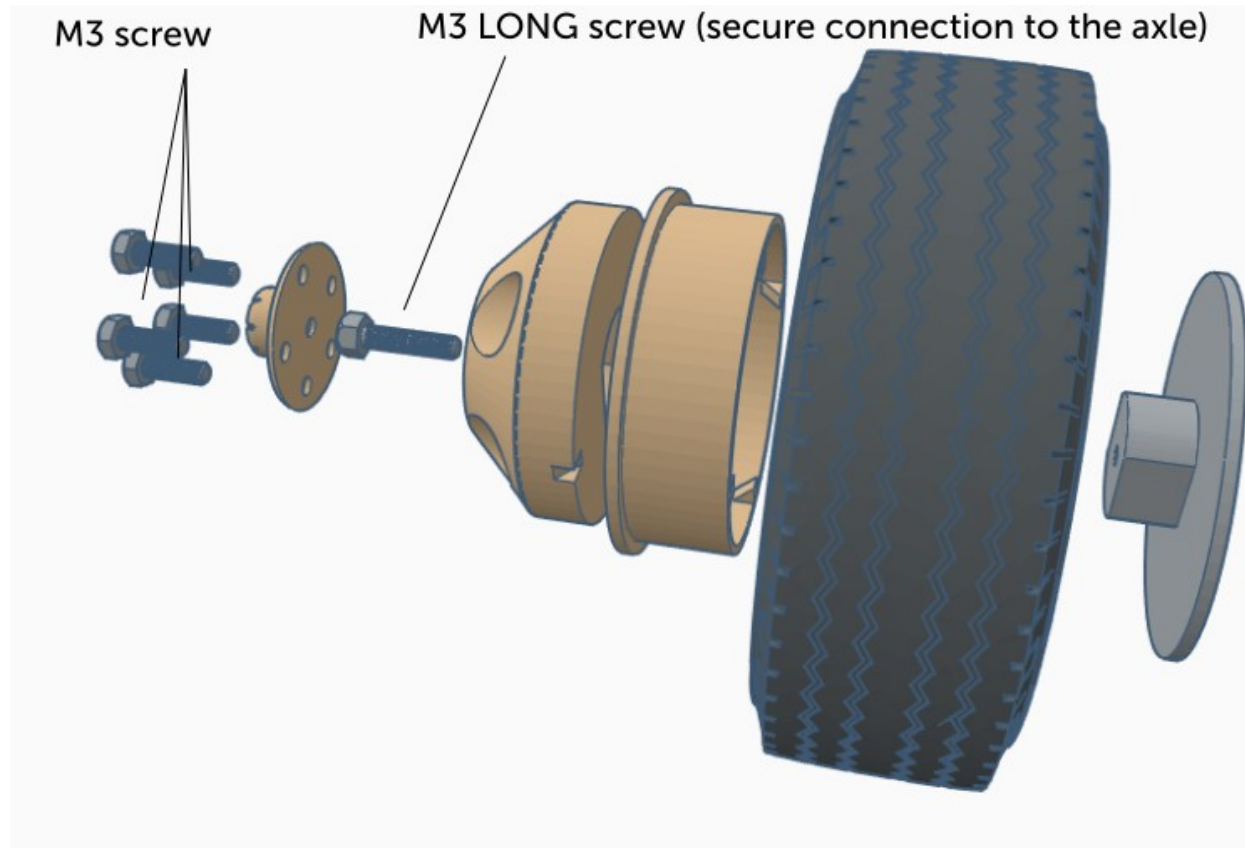


Align and check door lock and then glue it - make sure you glue correct side (dark blue) to door and glue it in angle to prevent self-opening





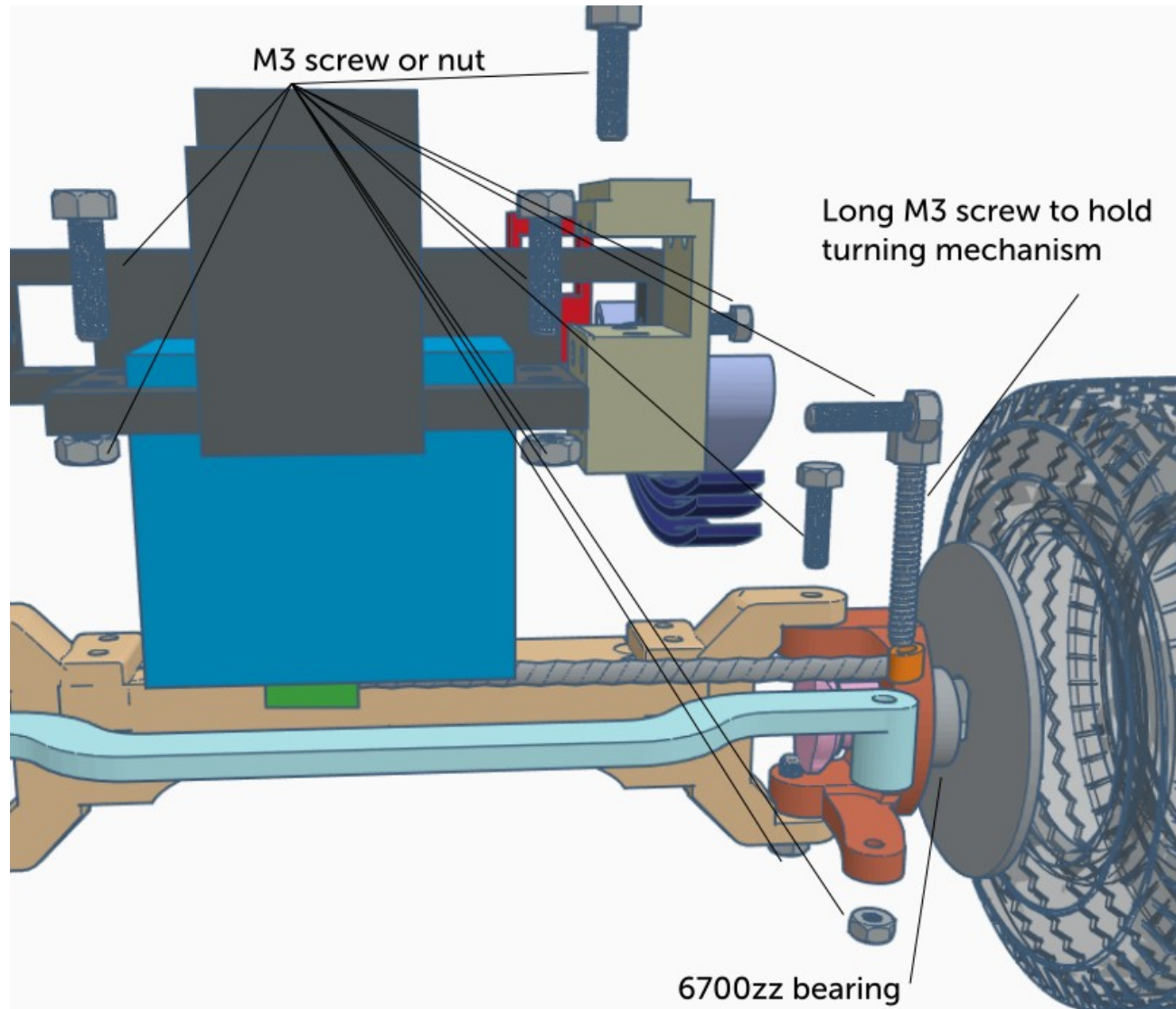
## 2. Rims

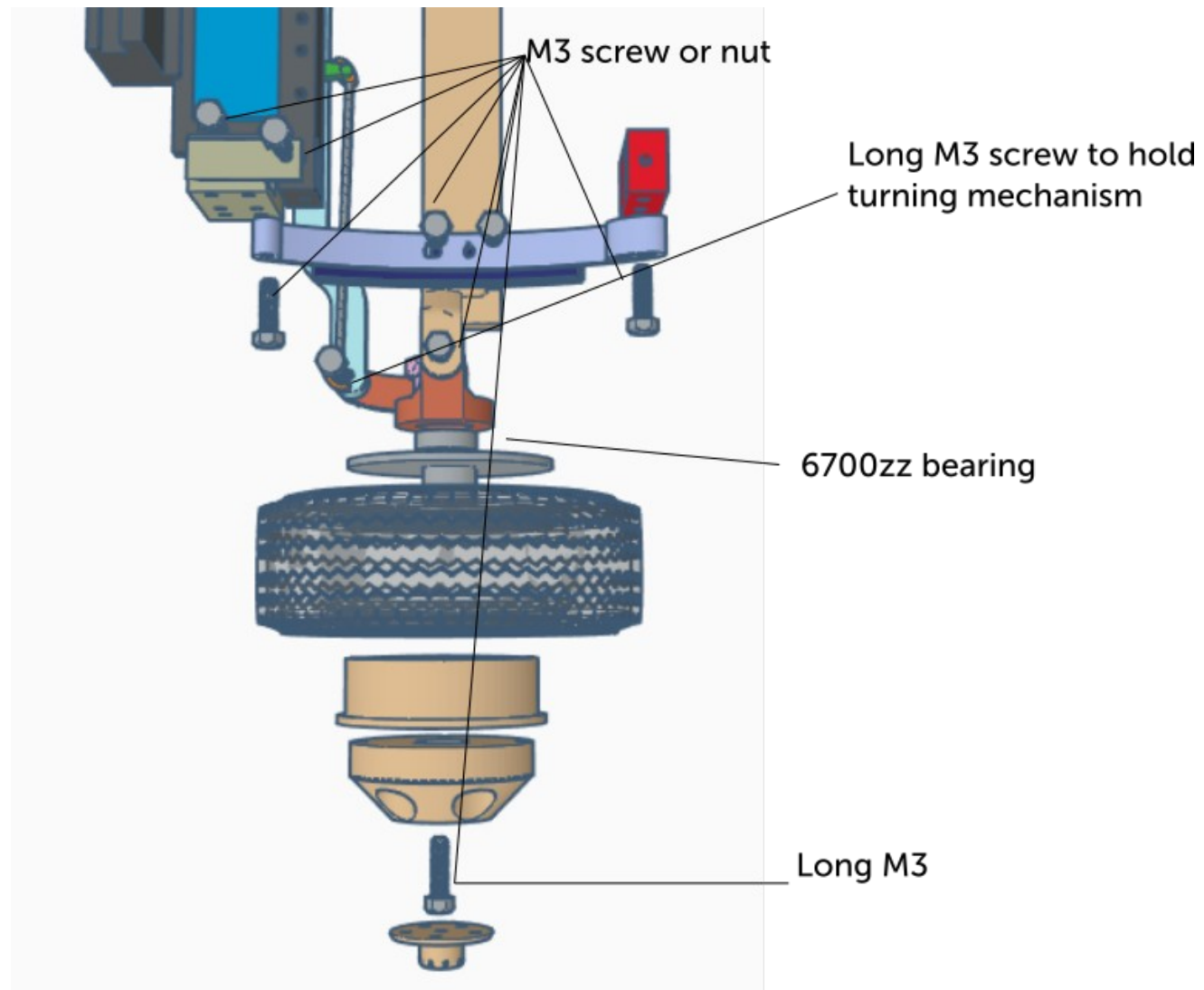


This diagram illustrates the assembly of a servo-controlled wheel. The components are labeled as follows:

- Servo:** A blue rectangular motor unit.
- Servo horn:** A red L-shaped component that connects the servo to the linkage.
- Leave springs:** A blue coiled spring that provides tension to the linkage system.

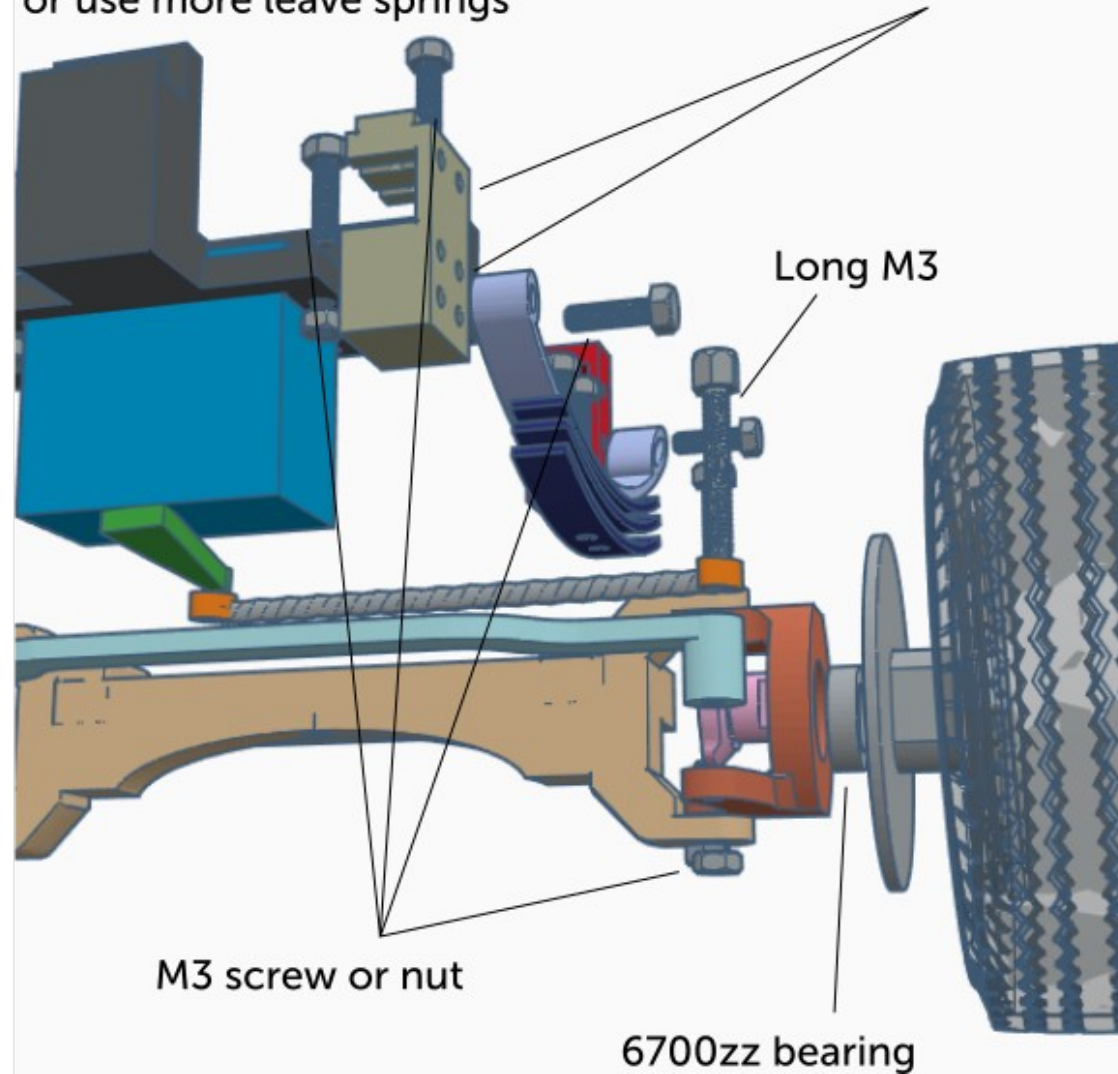
The assembly includes a light blue lever arm connected to the servo horn and the wheel axle. The wheel itself is black with a tread pattern, mounted on a tan-colored hub. The entire mechanism is shown in an exploded view to show how the parts fit together.





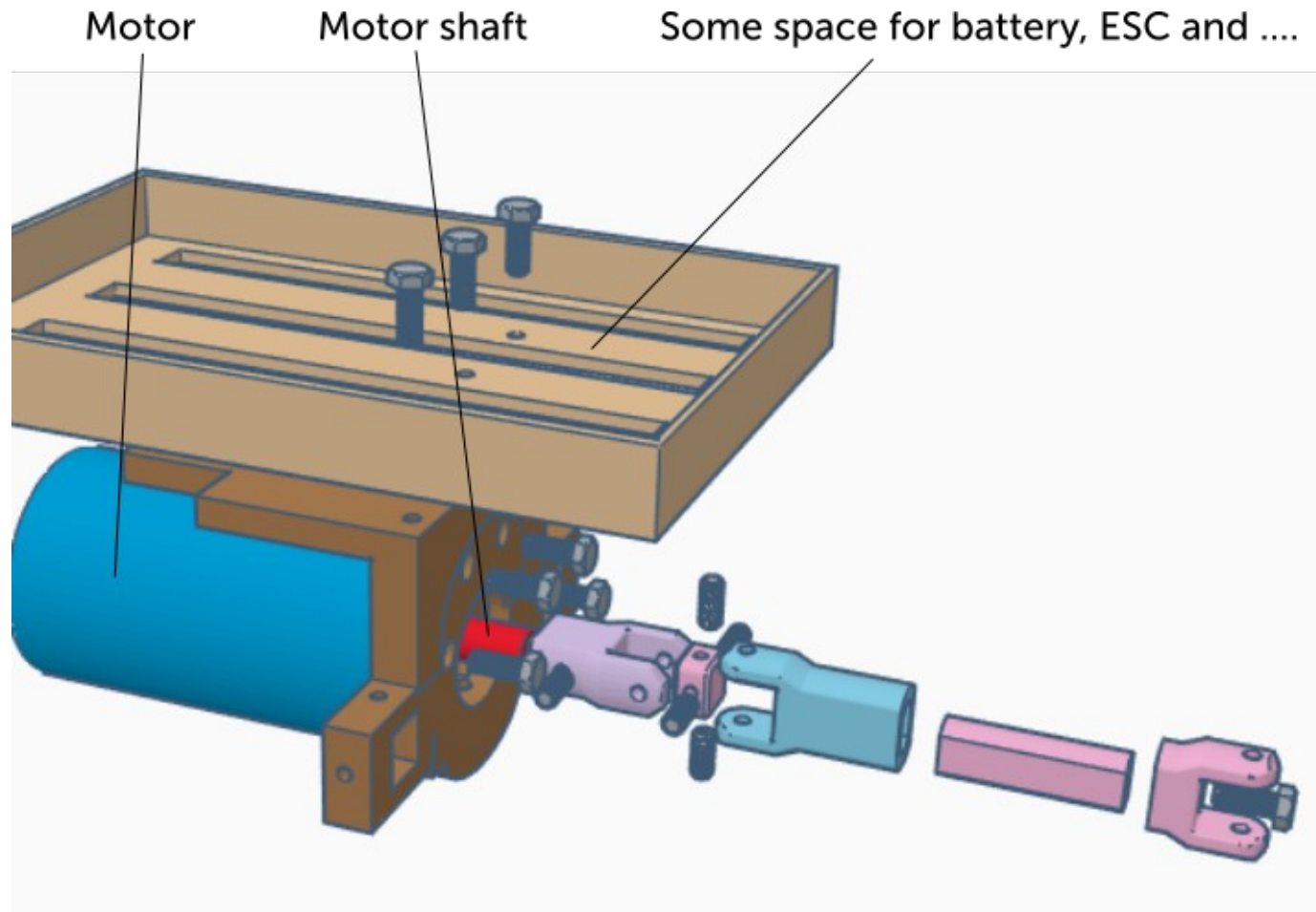


Please note that you can lift axle by use differend hole here  
or use more leave springs



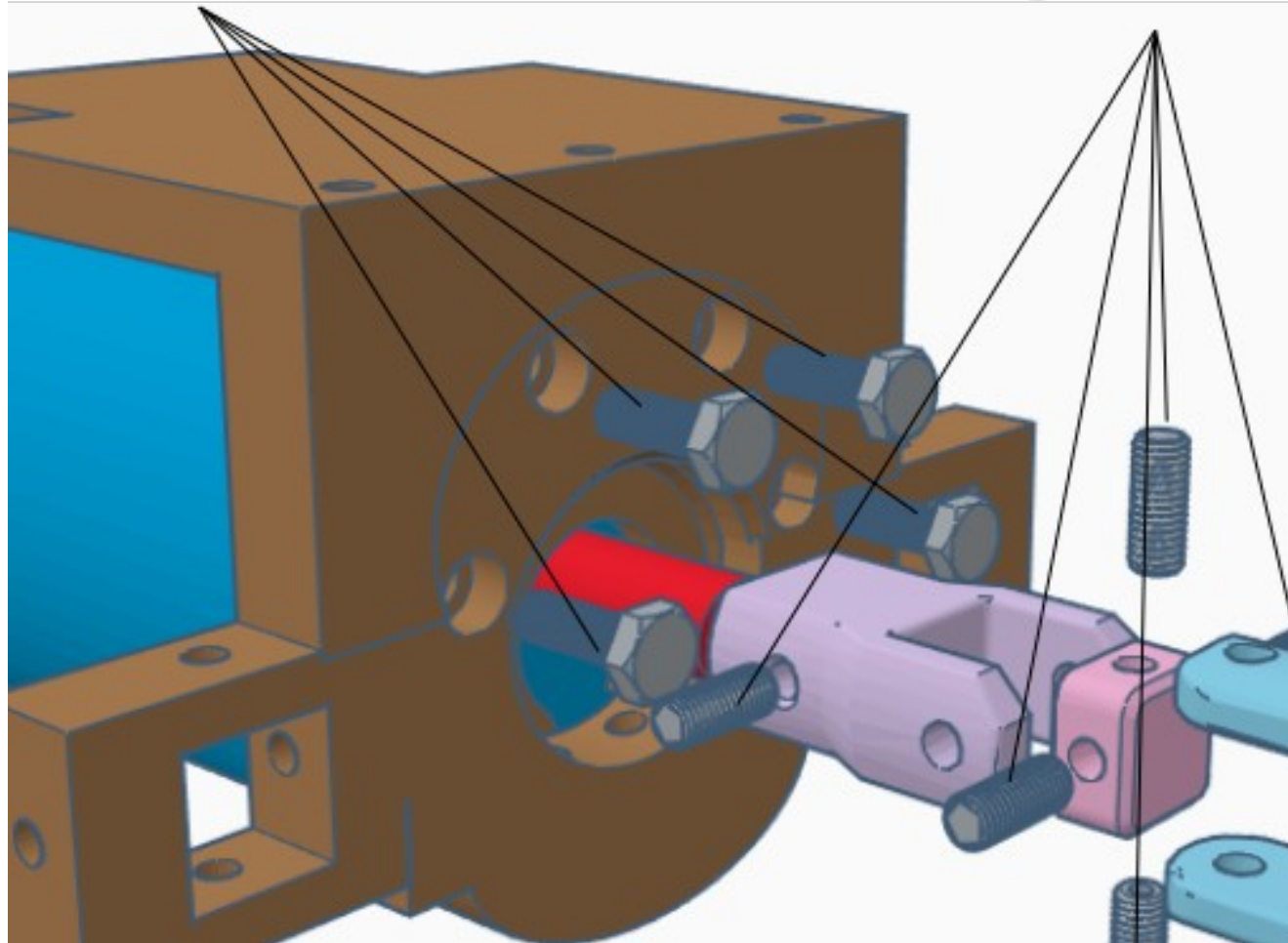


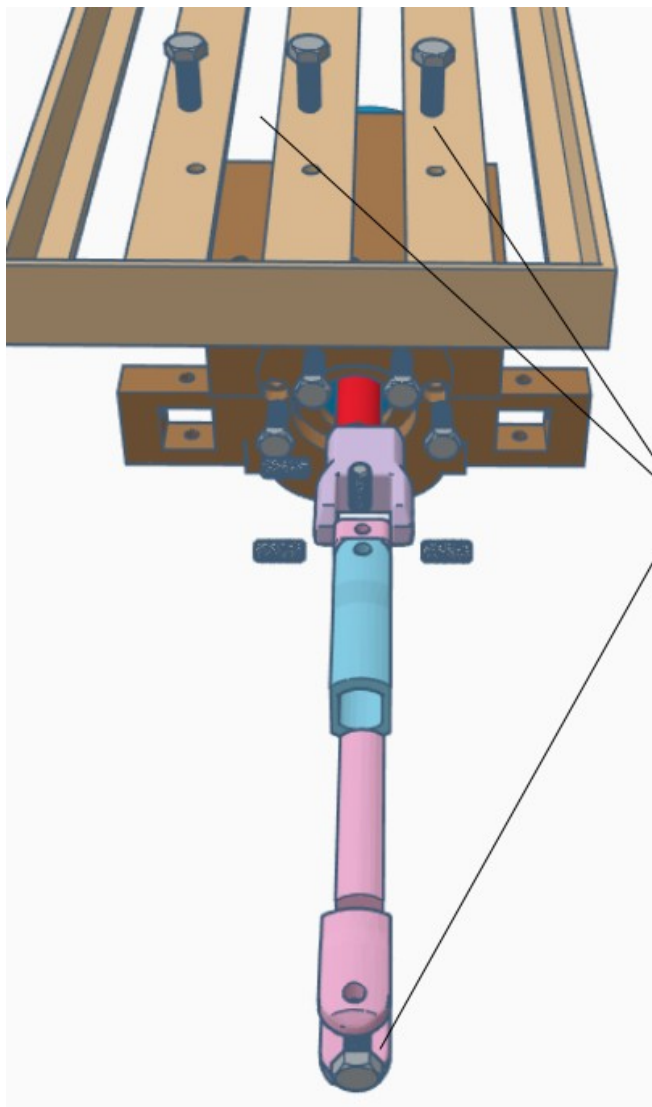
#### 4. Engine



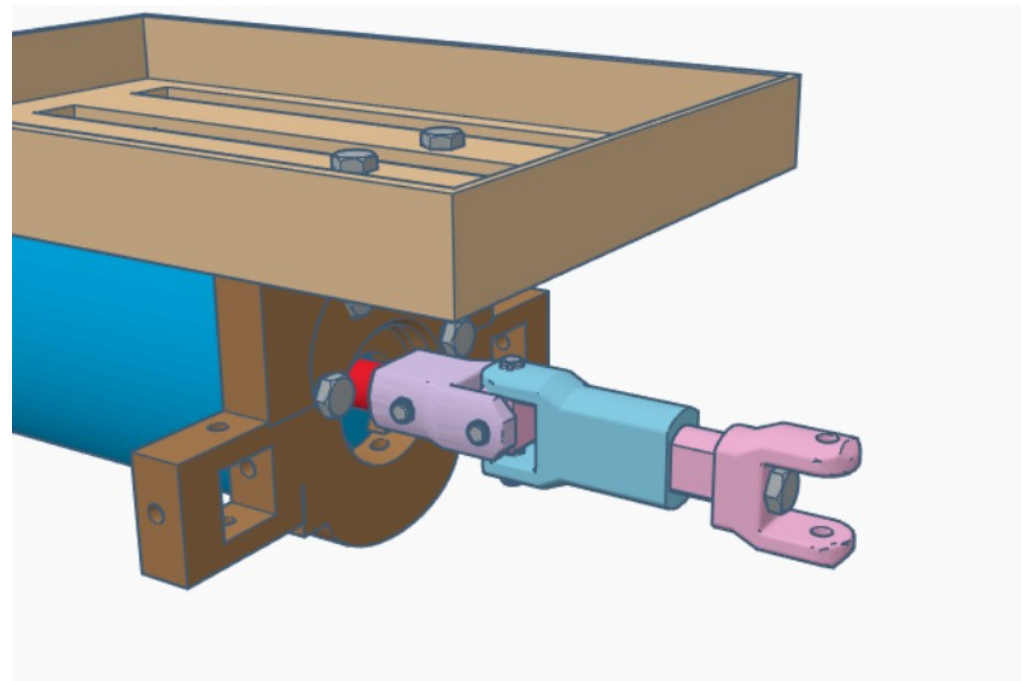
M3 screw

M3x8 grub screw

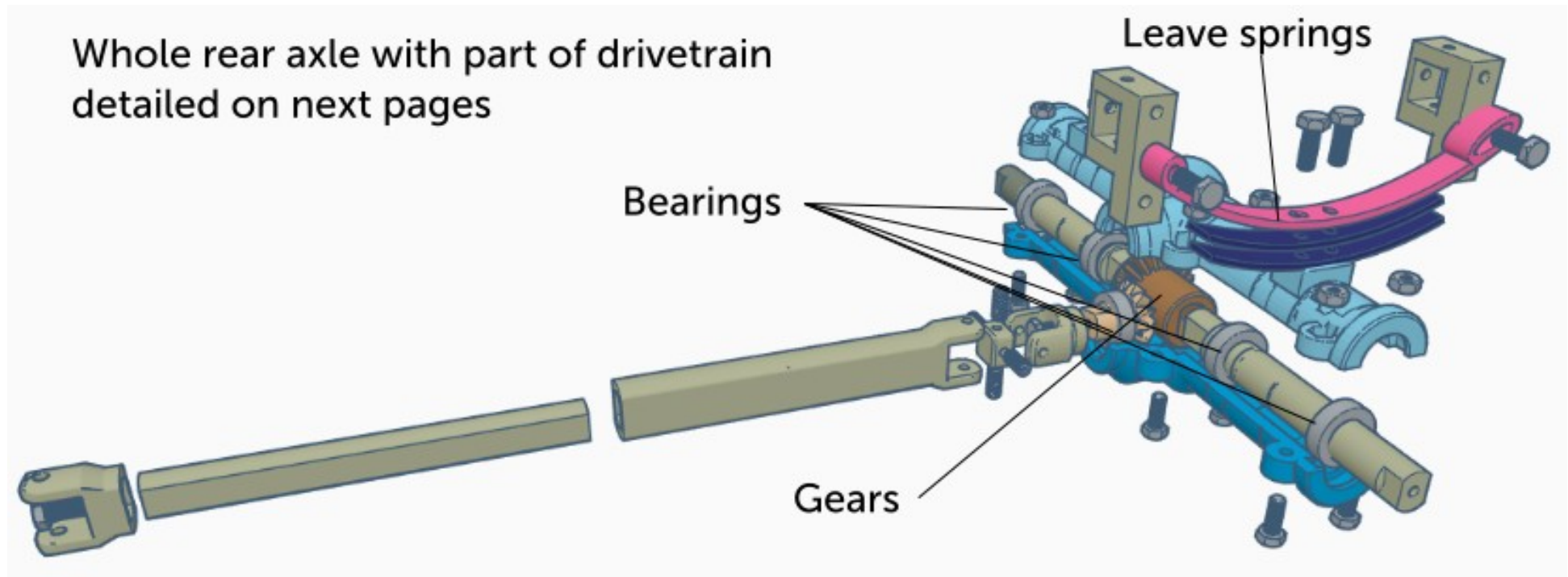




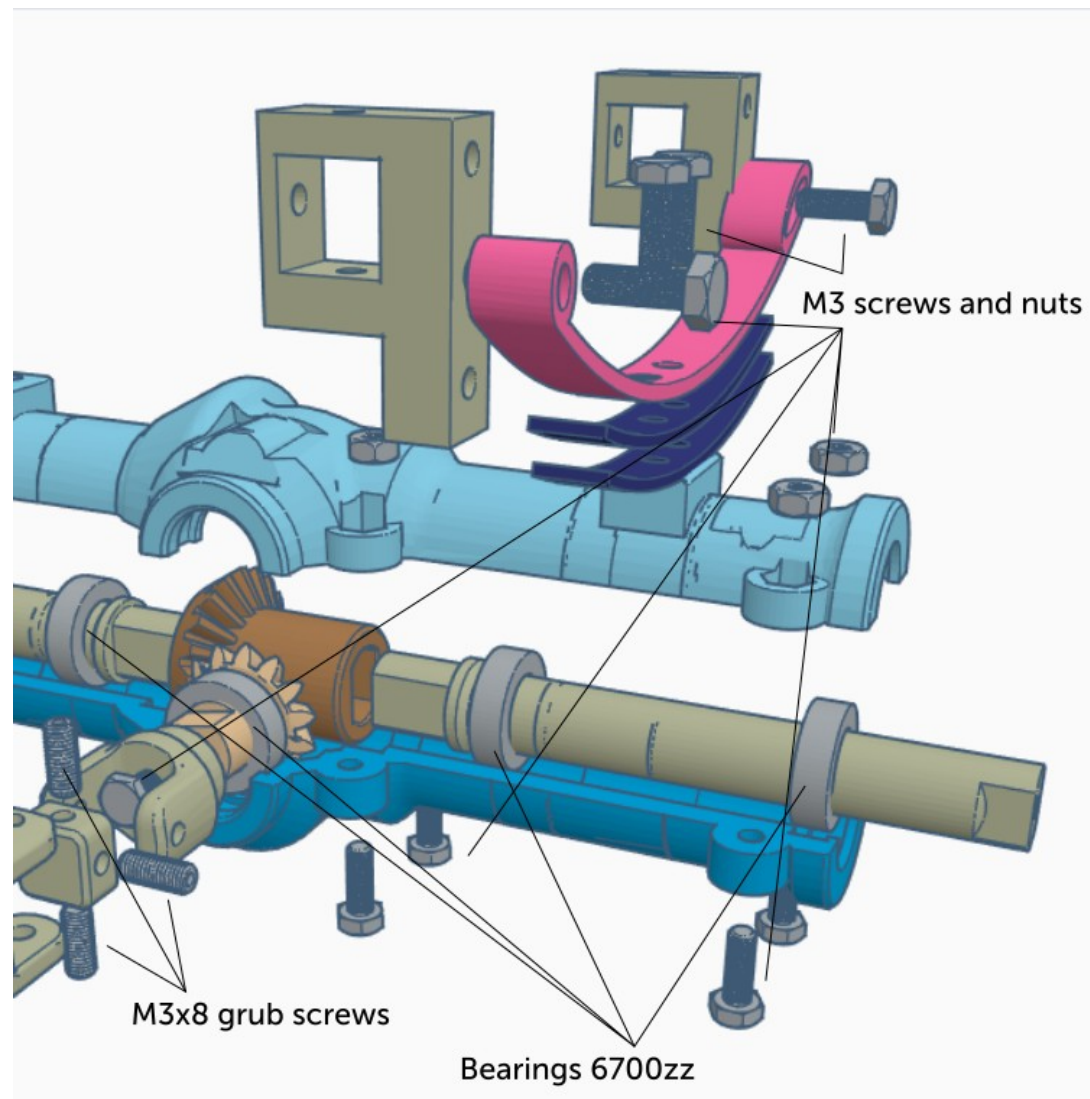
M3 screw

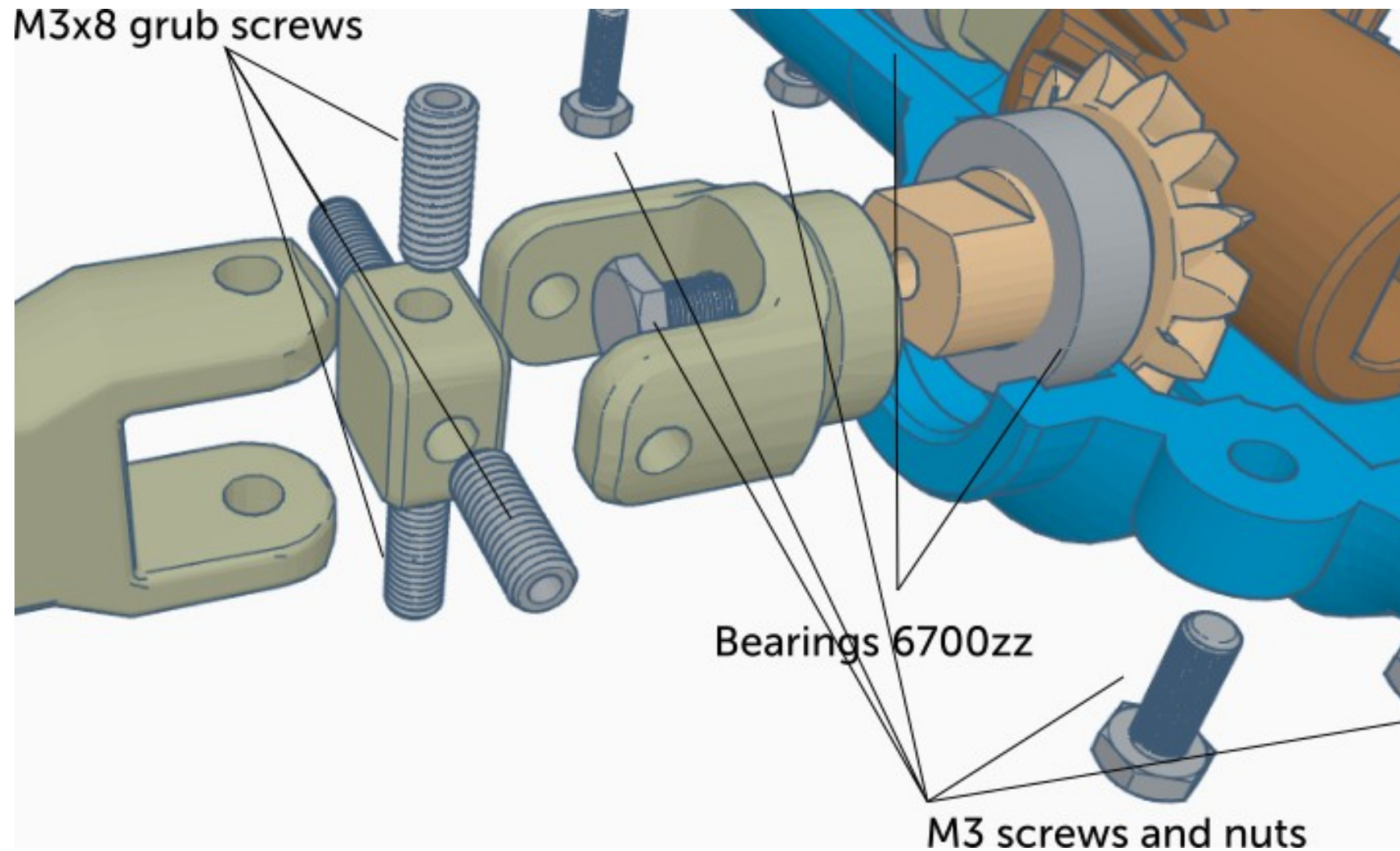


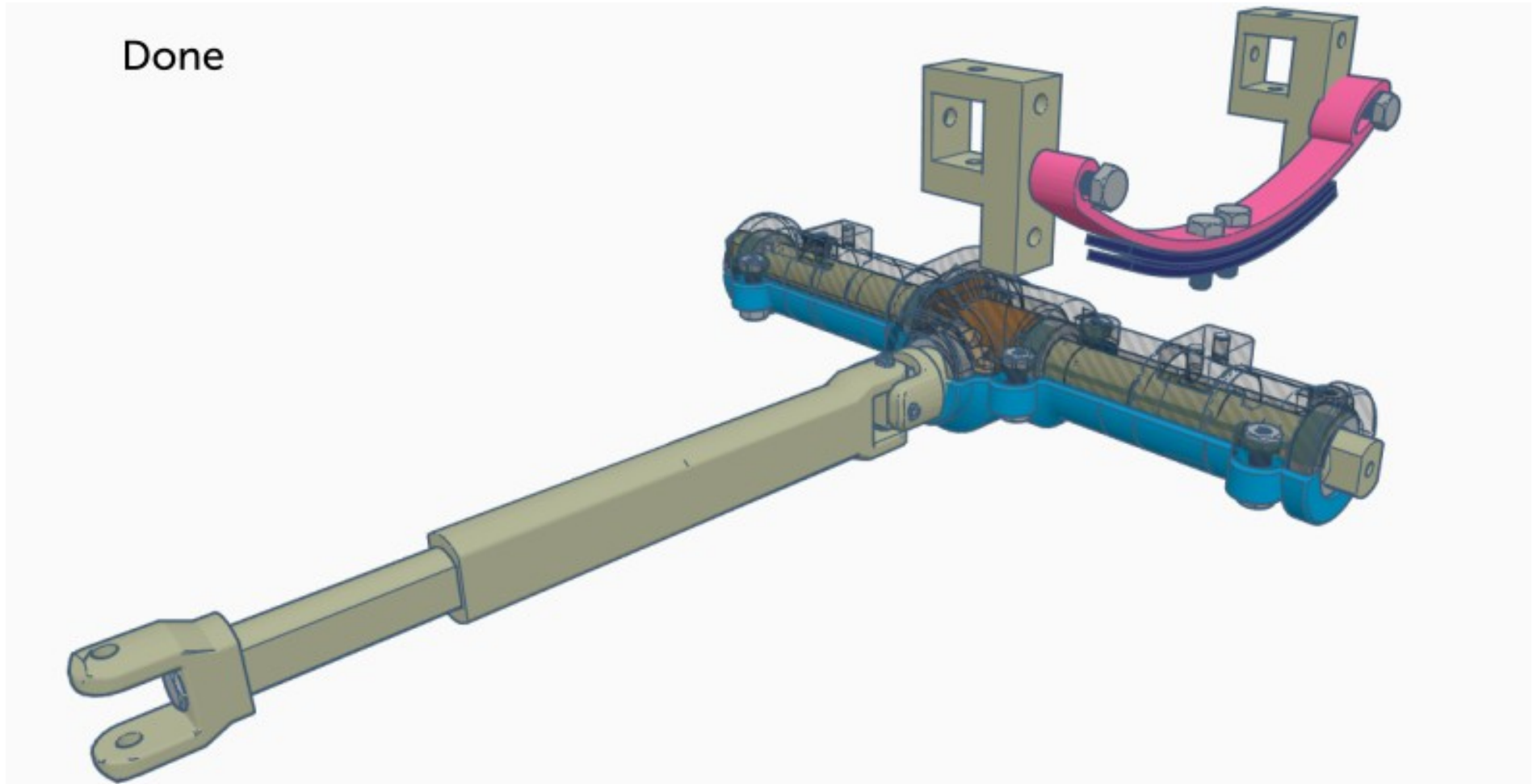
## 5. Rear axle











M3 screw

Rear axle connection

Connect to engine

M3x8 grub screw

6700zz bearing

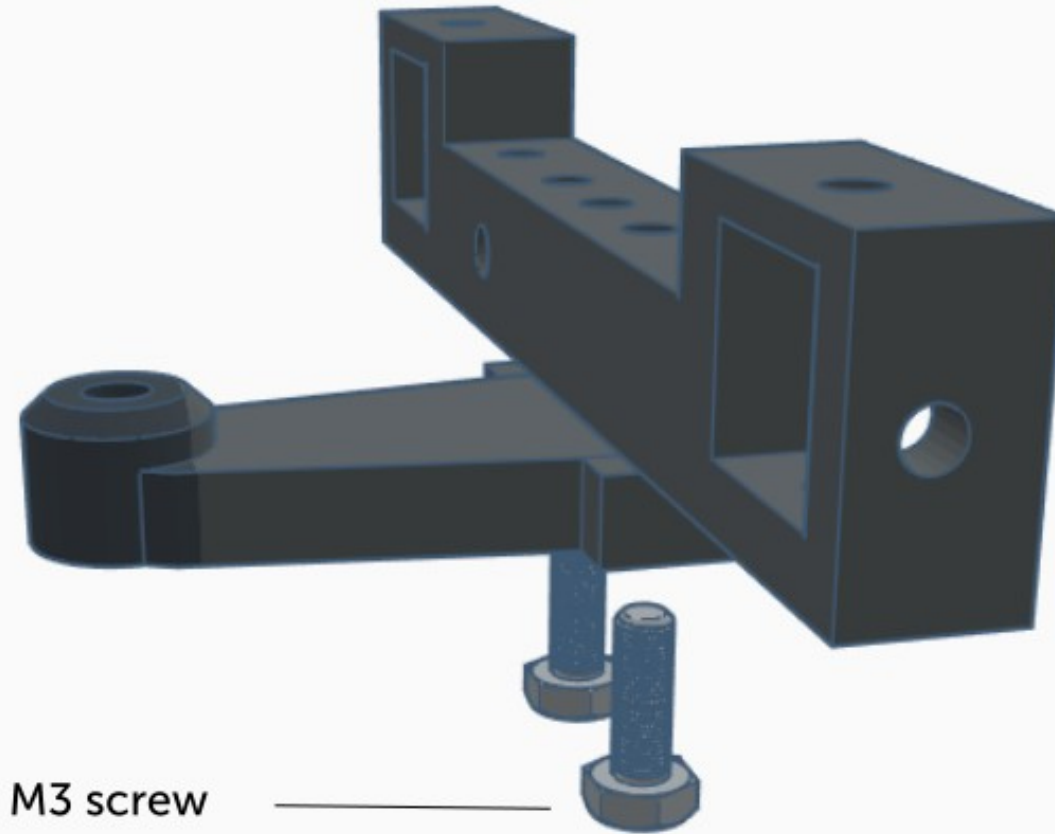


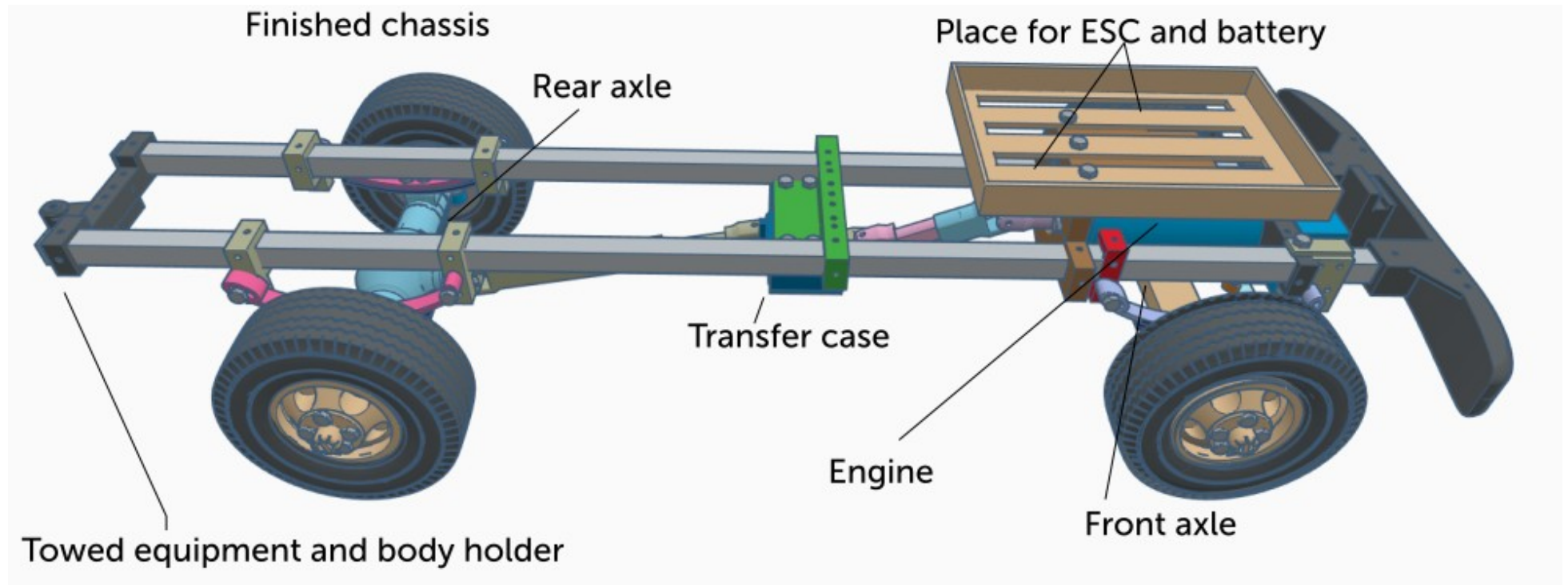
## 7. Finish chassis



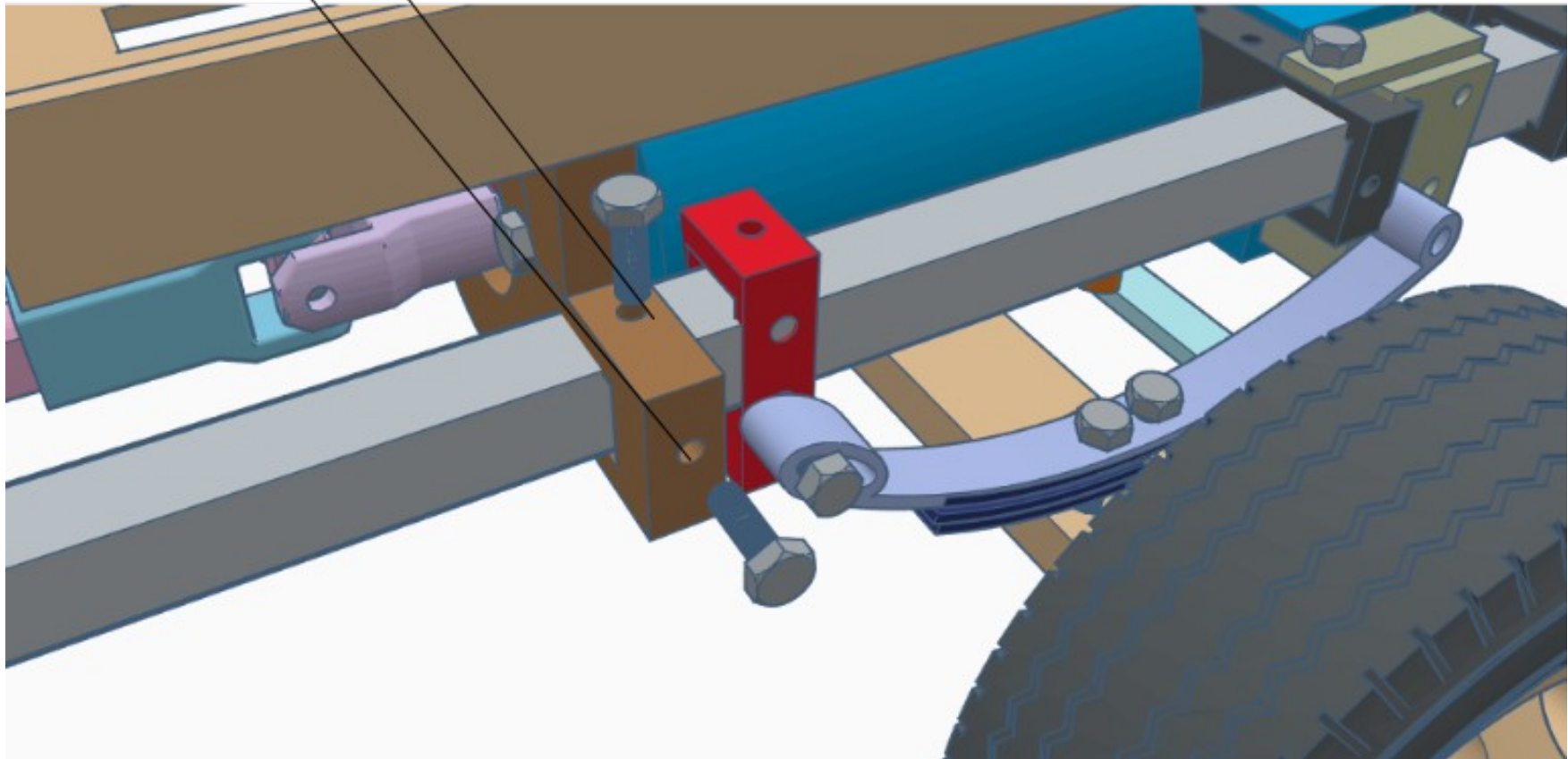
prepare aluminum profile 10x10mm - 2x approx. 572mm

Prepare towed equipment and second body holder



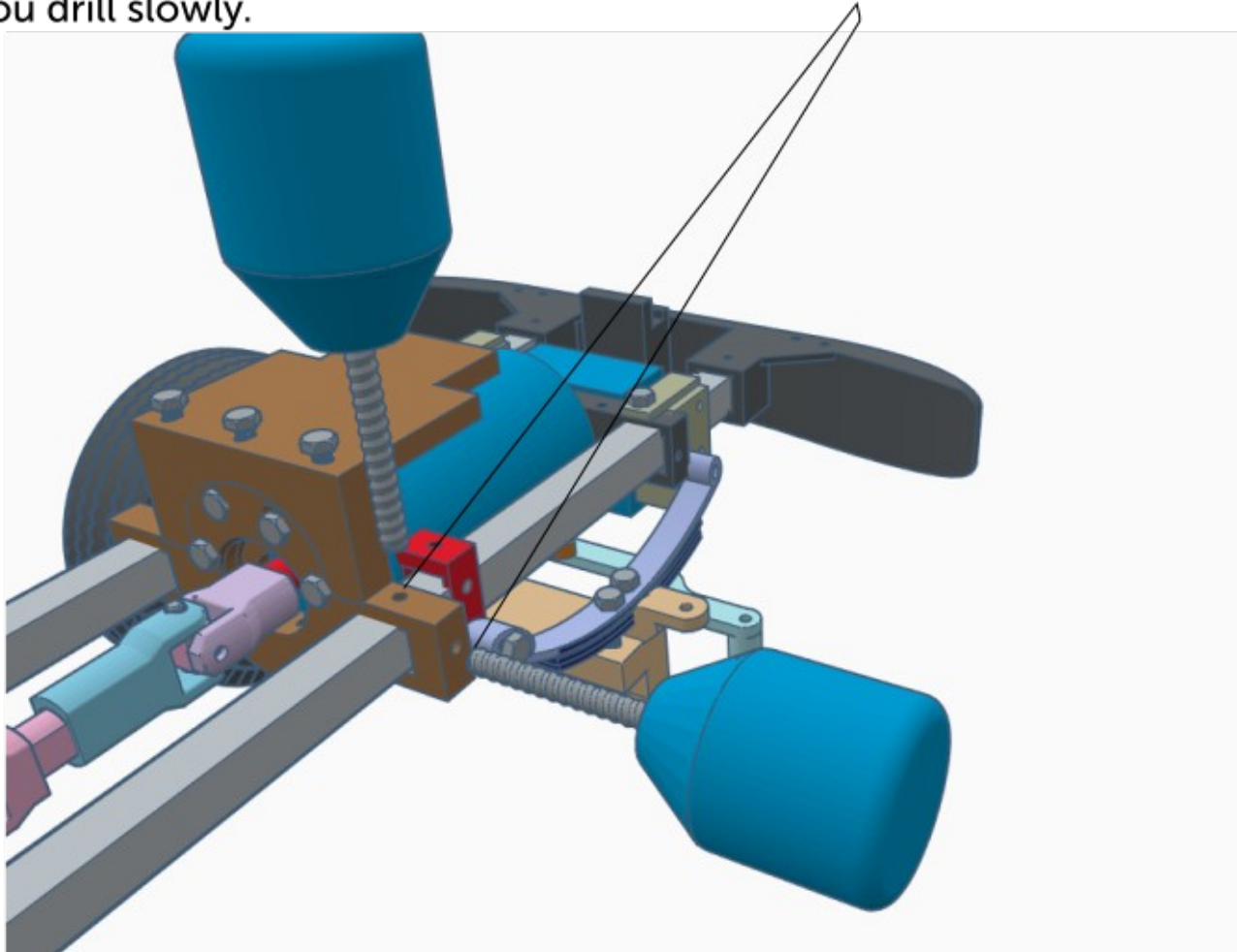


after align all parts and check if the wheels and front body holder fits correctly - wheels in the middle of fenders, tighten parts with M3 screw to aluminum frame to make markers. You can choose from side or top as picture shows

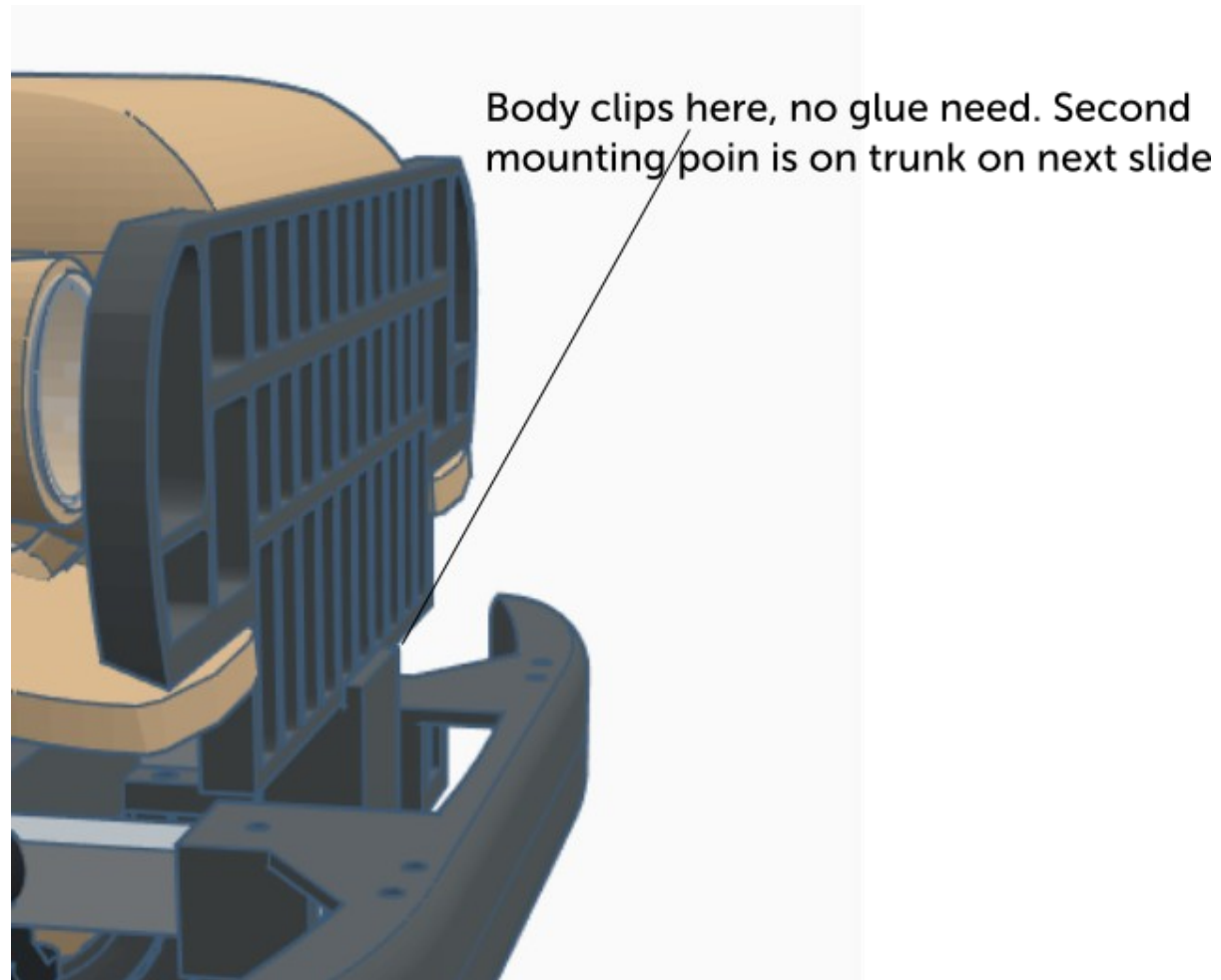




Make sure everything fits on rights place and drill holes by markes by M3 driller, of course you can unmount all parts - you have markers, but its no need, if you drill slowly.



## 8. Finish body and mount on chassis



Glue holder to body - make sure everything fits and its mounted on frame correctly (motor, wheels, axles). First clip in grill in front (previous picture) and then glue holder on correct place

